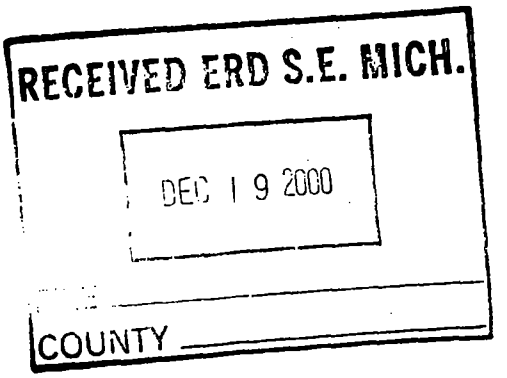
Therese VanDonsel,
US EPA

US EPA RECORDS CENTER REGION 5
487639

TriMatrix
Laboratories, Inc.



December 15, 2000

MDEQ
Attn: Beth Vens
38980 W. 7 Mile Road
Livonia, Michigan 48152-1006

RE: BASF
Dioxin & Furan Testing

Dear Ms. Beth Vens

Enclosed is a copy of your sub-contract laboratory report and invoice for submittal **35282.3a.** This project was an out-of-scope services project. The samples were completely received at Triangle Laboratory on November 17, 2000. The samples were analyzed for Dioxins & Furans by SW846 Method-8290-High Resolution.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Lisa M. Harvey
Project Chemist

cc: Bill Brunner, Malcolm Pirnie

Enclosure

This report shall not be reproduced except in full, without written authorization of TriMatrix Laboratories, Inc.
Individual sample results relate only to the sample tested.
5560 Corporate Exchange Court SE • Grand Rapids, MI 49512 • (616) 975-4500 • Fax (616) 942-7463

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:	December 13, 2000
Client ID:	TriMatrix, Inc.
P.O. Number:	35282.3a
TLI Project Number:	52366r1

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Overview

The samples and associated QC samples were extracted and analyzed according to procedures described in EPA Method 8290 Rev. 0 (9/94). Any particular difficulties encountered during the sample handling by Triangle Laboratories will be discussed in the QC Remarks section below. This report contains results from only the 8290 dioxin/furan analyses of six water samples.

Quality Control Samples

A laboratory method blank, identified as the TLI Blank, was prepared along with the samples.

Laboratory control spike (LCS) and laboratory control spike duplicate (LCSD) samples were extracted and analyzed along with the samples. A report summarizing the analyte recoveries and relative percent differences for these samples is included in the data package.

Quality Control Remarks

This release of this particular set of TriMatrix, Inc. analytical data by Triangle Laboratories was authorized by the Quality Control Chemist who has reviewed each sample data package following a series of inspections/reviews. When applicable, general deviations from acceptable QC requirements are identified below and comments are made on the effect of these deviations upon the validity and reliability of the results. Specific QC issues associated with this particular project are:

Sample receipt: Eight water samples were received from TriMatrix, Inc. at 4.0 °C in good condition on November 17, 2000 and stored in a refrigerator at 4 °C. The client's chain-of-custody did not indicate whether or not chemical preservatives were utilized for the water samples prior to shipment.

Sample Preparation Laboratory: None

Mass Spectrometry: None

Data Review: The percent recoveries of the internal, alternate, and surrogate standards in samples BASF-SMW-5, BASF-SMW-6, BASF-SMW-13, and BASF-SMW-20 are well

below the QC limits. The corresponding analytes may be underestimated in these samples. These samples have been extracted twice, and both extractions show similar recoveries for these samples. The samples from the first extraction have been included in the data package, under TLI project number 52366. Data review was not performed on samples from 52366. This data was released per client request.

The percent recoveries for 234678-HxCDF and 123789-HxCDF are above the QC limits in the LCSD analysis. However, the relative percent differences are well within the QC limits. The results for these analytes may be slightly overestimated in the samples.

Other Comments: No 2,3,7,8-substituted target analytes were detected in the method blank above the target detection limit (TDL).

The analytical data presented in this report are consistent with the guidelines of EPA Method 8290 Rev. 0 (9/94). Any exceptions have been discussed in the QC Remarks section of this case narrative with emphasis on their effect on the data. Should TriMatrix, Inc. have any questions or comments regarding this data package, please feel free to contact a Project Scientist, at (919) 544-5729.

For Triangle Laboratories, Inc.,

Released by,

Vijay L. Chhabra

Report Preparation Chemist

The total number of pages in the data package is : 745

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

American Association for Laboratory Accreditation. Extended Expiration Date of October 31, 1999. Certificate Number 0226-01. Accreditation for technical competence in Environmental Testing. 8280, 8290, 1613A Dioxin in Wastewater; Solid or Hazardous Waste, and Air Matrices: XAD Trains - M23, 8290X and PUF Trains 8290X. Absorbable Organic Halides (AOX)/ Toxic Organic Halides (TOX) in Pulp/Paper. Method 1613A & B. 2,3,7,8 TCDD for Drinking. *Pending Evaluation of On-Site Audit.*

State of Alabama, Department of Environmental Management. Expires December 31, 2000. Laboratory ID # 40950. 2,3,7,8 TCDD (Dioxin) in drinking water.

State of Alaska, Department of Environmental Conservation. Expires December 21, 2000. Lab ID #NC-06-00. Certificate number NC00140. 2,3,7,8- TCDD (Dioxin) in drinking water.

State of Arizona, Department of Health Services. Expires May 26, 2001. Certificate #AZ0423. Drinking Water for Dioxin. Dioxin in Waste Water and Solid or Hazardous Waste.

State of Arkansas, Department of Pollution Control and Ecology. Expires 8 August 2001. Pulp/paper, soil, water, and Hazardous Waste for Dioxin/Furans.

State of California, Department of Health Services. Expires August 31, 2001. Certificate #1922 Organic Chemistry of Drinking Water -Dioxin in DW; EPA Method 1613, Organic Chemistry of Hazardous Waste by GC/MS - EPA Methods 8240B, 8270B, 8280, 8290, 8260A, and Organic Chemistry of Wastewater by GC/MS - EPA Method 613.

State of Connecticut, Department of Health Services. Expires September 30, 2001. Registration # PH-0117. 2,3,7,8 TCDD (Dioxin) in drinking water (potable water for organic chemicals).

Delaware Health and Social Services. Expired December 31, 1998, **but** current certification will be maintained until DHSS has implemented their NEW Laboratory Certification Program. Certificate #NC 140. Dioxin in drinking water.

Florida Department of Health and Rehabilitative Services. Expires June 30, 2001. Method 1613 for Dioxin in Drinking Water. ID HRS# E87769.

Georgia Department of Environmental Quality. Initial application sent August 12, 1998 for Chemical Certification of Drinking Water for Dioxins, method 1613. *Currently applying*

Hawaii Department of Health. Expires March 1, 2000. Certified for Dioxin under the Safe Drinking Water Act. "Accepted" status for regulatory purposes.

Idaho Department of Health and Welfare. Expires December 31, 2000. Dioxin in drinking water.

Illinois Environmental Protection Agency. Sent initial application and fees December 18, 1998. Drinking Water, Wastewater and Hazardous Waste, Methods 608, 610, 624, 625, 8081A, 8260B, 8260C, 8270B, 8270C, 8310, 8315A. *Fees paid. Certificate pending.*

Indiana Department of Health. Expires December 31, 2000. Dioxin in drinking water, EPA method 1613. Lab ID # C-NC-01.

State of Kansas, Department of Health and Environment. Expires January 31, 2001. Cert. # E-10215. Method 1613, 2,3,7,8 TCDD for drinking water. Drinking water and/or pollution control; Cert. # E-10215. Solid or Hazardous Waste 8260B, 8270C.

Commonwealth of Kentucky, Department for Environmental Protection. Expires December 31, 2000. Lab ID #90060. 2,3,7,8 TCDD (Dioxin) in drinking water.

State of Louisiana Department of Environmental Quality. As of March 24, 2000, Triangle Laboratories, Inc. has "Pending Accreditation" until the LADEQ completes review of PT studies submitted.

State of Louisiana Department of Health & Hospitals. Expires December 31, 2000. Dioxin (2,3,7,8-TCDD) in Organics parameter. Certificate # LA000008.

Maryland Department of Health and Mental Hygiene. Expires September 30, 2000. Certification #728 - 2,3,7,8 TCDD (Dioxin) by 1613A for Water Quality[SOC II]. *Currently Applying.*

State of Michigan, Department of Environmental Quality. Expires April 1, 2001. 2,3,7,8 TCDD by Method 1613.

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

Montana Department of Health and Environmental Services. Expires December 31, 2000. Dioxin in drinking water.

State of Nebraska Department of Health. Expires December 31, 2000. Reciprocal certification through the North Carolina Department of Health and Human services. 2,3,7,8-TCDD (Dioxin) in drinking water, EPA Method 1613.

State of Nevada, Department of Conservation and Natural Resources. Parameter: Dioxin under Clean Water Act; expires December 31, 2000.

State of Nevada, Department of Human Resources. Lab Certificate No. NC-00140-2000-46, expires June 30, 2001. Parameters: Dioxin under Safe Drinking Water Act, expires March 31 2001.

State of New Jersey, Department of Environmental Protection and Energy. Expires June 30, 2000. ID #67851. 8290 and 1613(2.3.7.8- TCDD). *Currently Applying*

State of New Mexico, Environment Department. Expired October 31, 1999. Dioxin in Drinking Water per A2LA. *Renewal pending A2LA Certificate of renewal.*

New York State Department of Health. Expires March 31, 2001. ID #11026. Environmental Analyses of Solid and Hazardous Waste for purgeable hydrocarbons, chlorinated hydrocarbons, pesticides, priority pollutant phenols; potable water 2,3,7,8 TCDD (Dioxin).

State of North Carolina, Department of Health and Human Services. Expires June 30, 2001. Certificate # 37751. Dioxin in drinking water.

North Dakota State Department of Health and Consolidated Laboratories. Expires March 31, 2000. Certificate # R-076. Effective October 4, 1993. Dioxin in drinking water. Current certification is extended, based on New York certificate renewal.

Oklahoma Department of Environmental Quality. Expires August 31, 2001. Laboratory #9612. 2,3,7,8 TCDD (Dioxin) by 613, 1613A, 8290 and 8280. *Currently applying*

State of South Carolina, Department of Health and Environmental Control. Expires April 1, 2001. 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. Certificate # 99040002 expires August 31, 2001. Solid Hazardous Waste- Dioxins/Furans by 8280A and 8290. Reciprocal certification with California.

State of Tennessee. Department of Environment and Conservation. Expires January 28, 2002. ID #02992. Dioxin in Drinking water.

U.S. Department of Agriculture Soil Permit. Expires June 30, 2002. Permit No. S-4958 (Revised). Under the authority of the Federal Plant Pest Act, permission is granted to receive foreign soil samples for use in laboratory analysis.

Revised: 9/07/00 nch

Y:\CERTIFIC\ADMINIST\CERTLIST.MEM

U.S. Army Corps of Engineers. Expires November 15, 2001. Validated to perform analyses for the McAlester Army Ammunition Plant and various sites. EPA SW-846, Methods 8280 and 8290, water and solids.

U.S. EPA Region V. Expires January 19, 2003. 2,3,7,8 TCDD (Dioxin) in drinking water by method 1613A.

U.S. EPA Region VIII, for the State of Wyoming. Expires October 9, 2000. EPA Method 1613 for Dioxin in drinking water.

State of Utah, Department of Health. ID # TRLA, Account # 9195445729. **Organics** 1613 - RG Dioxin, expires November 31, 2001. **Metal Digestion** 3010A & 3050A; **Metals** 6010B & 7470; **Organic Extraction** 3540A; and, **Organic Instrumentation** 8240, 8280 & 8290; expires May 31, 2001.

Commonwealth of Virginia, Department of General Services, Division of Consolidated Laboratory Services. Expires June 30, 2001. ID # 00341. 2,3,7,8-TCDD (Dioxin) in drinking water.

State of Washington, Department of Ecology. Expires September 11, 2000. Lab Accreditation Number C067. Scope of Accreditation applies to Dioxins (PCDDs/PCDFs) by EPA methods 1613A, 8280, and 8290. *Renewal being processed.*

State of Washington, Department of Health. Expires April 30, 2001. Dioxin by 1613A in drinking water. Lab ID 129.

State of West Virginia, Department of Health. Expires December 31, 2000. Certificate No. 9923(C). 2,3,7,8-TCDD (Dioxin) in drinking water.

State of Wisconsin, Department of Natural Resources. Expires August 31, 2001: Certification for PCDD/PCDF. Laboratory ID Number 999869530. Expires August 31, 2001: Certified for 2,3,7,8-TCDD (Dioxin) in drinking water.

PHARMACEUTICAL

Drug Enforcement Agency (DEA). Expires November 30, 2000. Registration number RT0195835. Controlled substance registration for schedules 1,2,3,3N,4,5.

N.C. Department of Human Resources. Expires October 31, 2000. Registration number NC-PT 0000 0031. North Carolina controlled substances registration for schedules 1, 2, 2N, 3, 3N, 4, 5, 6.

Food & Drug Administration (FDA) Registration. Registered June 17, 1999. ID #'s 001500 1053481(ATL). Annual registration of drug establishment.

OTHER

Clinical Laboratory Improvement Amendments (CLIA) Registration. Expires May 30, 2001. ID # 34D0705123. Department of Health & Human Services, Health Care Financing Administration. Certificate for the Acceptance of Human Specimans for the purposes of performing laboratory examinations or procedures - Chemistry, Toxicology, HCFA.

U.S. EPA Large Quantity Hazardous Waste Generator. No expiration date. EPA ID #NCD982156879. Permit indicates that the laboratory is a large generator of hazardous waste.

North Carolina General License for Radiation Protection. No expiration date. No License. 032-875-OG. The general license applies only to radioactive material contained in devices which have been manufactured and labeled in accordance with specific requirements.

TRIANGLE LABS

DOCUMENT CONTROL

Triangle Laboratories, Inc.
801 Capitola Drive
Durham, NC 27713-4411
919-544-5729
P.O. Box 13485
Research Triangle Park, NC 27
Fax # 919-544-5491

COPY

MALCOLM PIRNIE
ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS
1400 ABBOTT ROAD, SUITE 140
EAST LANSING, MI 48823
PHONE: 517-337-0111

Chain of Custody Record

No. M3425

SITE NAME: BASF

PROJECT NO.: 3940-014

SAMPLERS (SIGNATURE): William H Burns

Date	Time	Matrix*	Comp	GRAB	Sample I.D.	No. of Containers	Container Type** & Volume	Field Filtered (Yes or No)	Preservation Method	Analysis Required: Dioxin	Remarks
11/15/00	12:24	Water		X	BASF-DUP 1	2	1000mlG	N	—	X	
↓		↓		X	BASF-MS/MSD	1	↓	↓	—	X	
↓	17:00	↓		X	BASF-Field Blank	2	↓	↓	—	X	

Comments/Instructions to Lab:

Tri Matrix Customer

Relinquished by: (signature) William H Burns — Date/Time 11/16/00 17:45

Received by:

Dispatched by: (signature) — Date/Time — Carrier:

Lab Task Order #: — Airbill Shipping #: — Received at lab by — Date/Time — Logged in by — Date/Time

COPY

MALCOLM PIRNIE
ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS
1400 ABBOTT ROAD, SUITE 140
EAST LANSING, MI 48823
PHONE: 517-337-0111

Chain of Custody Record

No. 3424

SITE NAME: BASF

PROJECT NO.: 3940-014

SAMPLERS (SIGNATURE):

Date	Time	Matrix*	Comp	GRAB	Sample I.D.	No. of Containers	Container Type** & Volume	Field Filtered (Yes or No)	Preservation Method	Analysis Required: Dioxin	Remarks
11/15/00	11:55	Water		X	BASF-SMW-5	2	1000mL G	N	—	X	
↓	15:55	↓		X	BASF-SMW-6	2	↓	↓	—	X	
↓	12:24	↓		X	BASF-SMW-10	2	↓	↓	—	X	

Comments/Instructions to Lab:
Tri Matrix Customer

Relinquished by: (signature)

Date/Time: 11/16/00 17:45

Received by:

Dispatched by: (signature)

Date/Time

Carrier:

Lab Task Order #:

Airbill Shipping#:

Received at lab by:

Date/Time

Logged in by:

Date/Time

COPY

MALCOLM PIRNIE
ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS
1400 ABBOTT ROAD, SUITE 140
EAST LANSING, MI 48823
PHONE: 517-337-0111

Chain of Custody Record

No. 13423

SITE NAME: BASF

PROJECT NO.: 3940-014

SAMPLERS (SIGNATURE): William H Brunner

Date	Time	Matrix*	Comp	GRAB	Sample I.D.	No. of Containers	Container Type** & Volume	Field Filtered (Yes or No)	Preservation Method	Analysis Required: Dioxin	Remarks
11/15/00	16:40	Water		X	BASF-SMW-13	2	1000ml G	N	—	X	
11	18:00	Water		X	BASF-SMW-20	2	1000ml G	N	—	X	

Comments/Instrucitons to Lab: ~~Test America~~ / Customer TriMatrix

Relinquished by: (signature) William H Brunner — Date/Time 11/16/00 17:45 — Received by:

Dispatched by: (signature) — Date/Time — Carrier:

Lab Task Order #: — Airbill Shipping#: — Received at lab by: — Date/Time — Logged in by: — Date/Time

COPY

CLIENT CHAIN OF CUSTODY SAMPLER'S SIGNATURE [signature] Quote 0000001174

From (1): TriMatrix, Inc.
5560 Corporate Exchange Court
Grand Rapids, MI 49512

Contact: Lisa Harvey
Phone: 616/975-4500
Fax: 616/942-7463

Project (1): BASF- Malcolm Pirnie

P.O.# (1):

(TMI03 /UN)

If the data will be reported to a state agency, which one?

Analysis Wanted (2): 1613B:T-O, 8280A:T-O, 8290:T-O, Dioxin

Total Number of Containers: 5

Turn Around Time (In Calendar Days):

Sample ID (3)	Date / Time	Preservation (4)	Matrix	Sample Amt.	1613B:T-O	8280A:T-O	8290:T-O	Dioxin		Remarks
~~BASF-SMW-20~~	~~11/15/00 18:00~~		~~Water~~	~~2-1000ml~~						
BASF-DUP 1	11/15/00		Water	2-1000ml				X		
BASF-MS/MSD	11/15/00 12:24		↓	1-1000ml				X		
BASF-Field Blank	11/15/00 17:00		↓	2-1000ml				X		

Relinquished By/Sign.	Date/Time	Received By/Sign.	Relinquished By/Sign.	Date/Time	Received By/Sign.
[signature]	11/15/00 17:45				

Received for Laboratory By/Signature	Date/Time
[signature]	09:00 11-17-00

Send Samples to: Triangle Laboratories, Inc.
Attn: Sample Custodian
801 Capitola Drive
Durham, NC 27713 USA
Phone: (919) 544-5729 • Fax: (919) 544-5491

Directions:
(1) Provide and/or correct client and project information.
(2) Verify analysis, check approriate boxes for each sample.
(3) Enter the sample ID to be used when reporting the samples.
(4) Please indicate the preservation used for each sample.

COPY

CLIENT CHAIN OF CUSTODY — **SAMPLER'S SIGNATURE** William H Brunner — **Quote 0000001174**

From (1): TriMatrix, Inc.
5560 Corporate Exchange Court
Grand Rapids, MI 49512

Contact: Lisa Harvey
Phone: 616/975-4500
Fax: 616/942-7463

Project (1): BASF - Malcolm Pirnie

P.O.# (1): _____

(TMI03 /UN)

If the data will be reported to a state agency, which one? ____

Analysis Wanted (2): 1613B:T-O | 8280A:T-O | 8290:T-O | Dioxin

Total Number of Containers: ~~6~~ 6 WHB 11/15/00

Turn Around Time (In Calendar Days):

Sample ID (3)	Date / Time	Preservation (4)	Matrix	Sample Amt.						Remarks
BASF-SMW-5	11/15/00 11:55	—	Water	2-1000ml						
BASF-SMW-6	11/15/00 12:55	—	↓	↓						
BASF-SMW-10	11/15/00 12:24	—	↓	↓						
BASF-SMW-13	11/15/00 16:40	—	↓	↓						

Relinquished By/Sign.	Date/Time	Received By/Sign.	Relinquished By/Sign.	Date/Time	Received By/Sign.
William H Brunner	11/15/00 17:45				

Received for Laboratory By/Signature	Date/Time
Randy Miller	09:00 11/16/00

Send Samples to: **Triangle Laboratories, Inc.**
Attn: Sample Custodian
801 Capitola Drive
Durham, NC 27713 USA
Phone: (919) 544-5729 • Fax: (919) 544-5491

Directions: (1) Provide and/or correct client and project information.
(2) Verify analysis, check approriate boxes for each sample.
(3) Enter the sample ID to be used when reporting the samples.
(4) Please indicate the preservation used for each sample.

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

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

Ice Chest — ICE — Temp 4.0 C

TLI Project Number 52366
Client : FM103 - TriMatrix, Inc.

Date Received | 11/17/00 | By

Carrier and Number | UPS

Book 274 | Page 99

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
274-99-1A	BASF-SMW-5	WATER									
	BASF-SMW-5	C02	11/21/00								
274-99-1B	BASF-SMW-5	WATER									
	BASF-SMW-5	C02			12/1/00	used					
274-99-2A	BASF-SMW-6	WATER									
	BASF-SMW-6	C02									
274-99-2B	BASF-SMW-6	WATER									
	BASF-SMW-6	C02			12/1/00	used					
274-99-3A	BASF-SMW-10	WATER									
	BASF-SMW-10	C02									
274-99-3B	BASF-SMW-10	WATER									
	BASF-SMW-10	C02									
274-99-4A	BASF-DUP1	WATER									
	BASF-DUP1	C02									
274-99-4B	BASF-DUP1	WATER									
	BASF-DUP1	C02			12/1/00	used					
274-99-5	BASF-MS/MSD	WATER									
	BASF-MS/MSD	C02									
274-99-6A	BASF-FIELD BLANK	WATER									
	BASF-FIELD BLANK	C02									
274-99-6B	BASF-FIELD BLANK	WATER									
	BASF-FIELD BLANK	C02			12/1/00	used					
274-99-7A	BASF-SMW-13	WATER									
	BASF-SMW-13	C02									
274-99-7B	BASF-SMW-13	WATER									
	BASF-SMW-13	C02			12/1/00	used					
274-99-8A	BASF-SMW-20	WATER									
	BASF-SMW-20	C02	11/21/00								

Receiving Remarks:

Archive Remarks

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

Custody Seal	: Present/Intact	Sample Seals: Absent	
Chain of Custody	: Present	Container... : Intact	
Sample Tags	: Absent		
Sample Tag Numbers	: Not Listed on Chain of Custody		
SMO Forms	: N/A		
Ice Chest	ICE	Temp 4.0 C	

TLI Project Number 52366
Client: TMI03 - TriMatrix, Inc.

Date Received	11/17/00	By [signature]
Carrier and Number	UPS	

Book 274

Page 99

TLI Number / mR/H:CPM	Client Sample ID / Client COC ID	Location	Matrix	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
274-99-8B	BASF-SMW-20		WATER	[initials] 11/21/00	[initials] 11/21/00	[initials] 12/1/00	used					
	BASF-SMW-20	C02										

Receiving Remarks:

TRIANGLE LABORATORIES, INC.
SAMPLE TRACKING AND PROJECT MANAGEMENT FORM

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

TLI Proj#: 52366-r1	Samples: 6	TurnAround.: 21 Day(s)
Prod Code: D01002	Matrix.: Water	Hold Time..: 30 Day(s)
DetectLim: 10 ppq	Type...: B	Start Date.: 11/17/00
	Recvd..: 11/17/00	Ship By....: 12/06/00
		DWL Due Dt.: 11/27/00

Analyte List.: Tetra - Octa

Method.....: Method 8290: Tetra-Octa
Client Proj..: BASF-Malcolm Pirnie
Client.....: TriMatrix, Inc. (TMI03)
P.O. No.....: 35282.3a — Collect Dt/Tm: 11/15/00
Contact.....: Lisa Harvey — Phone.....: 616/975-4532
Proj. Mgr....: — Fax.....: 616/942-7463
Sample Origin:

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

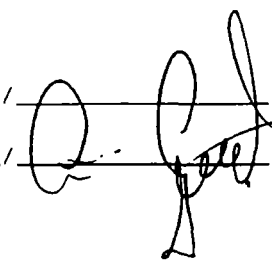
Prespike Standard: n/a
Extraction Exp...: 12/15/00

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

Reporting Format: Report Option III

See MILES for Instructions/Communications.

Completed by: _____/_____ DATE: _____

Reviewed by: AG /  DATE: 11-28-00 (PMGT0197)

Triangle Laboratories, Inc.®
801 Capitola Drive • Durham, North Carolina 27713
Phone: (919) 544-5729 • Fax: (919) 544-5491

TRIANGLE LABORATORIES, INC.
Wet Lab Extraction and Observations
Project: 52366-r1

Sample #	crd	TLI_Number..	Customer.Sample.Id.....	Init. pH...	NaOH Adj. mL..	NaOH Adj. pH.1.	H2SO4 Adj. mL...	H2SO4 Adj. pH.2.	Appearance.	Color.....	Odor...	Vol.	Entered.By.....	Date....	Time....	S
000		TLI Blank	TLI Blank	7.00	n/a	n/a	n/a	n/a	HPLC H2O	none	none	1000	gatchet	11/28/00	16:57:10	F
001		274-99-1B	BASF-SMW-5	10.00	n/a	n/a	0.5	8.00	CLOUDY	brown	yes	1080	WARENDA	12/01/00	14:28:36	F
				10.00	n/a	n/a	0.5	8.00	opaque	brown	yes	1070	gatchet	11/28/00	16:57:10	F
002		274-99-2B	BASF-SMW-6	13.00	n/a	n/a	10.0	8.00	CLOUDY	brown	yes	1080	WARENDA	12/01/00	14:28:37	F
				13.00	n/a	n/a	12.0	8.00	opaque	brown	yes	1090	gatchet	11/28/00	16:57:11	F
006		274-99-4B	BASF-DUP1	11.00	n/a	n/a	10.0	1.00	CLOUDY	brown	yes	1060	WARENDA	12/01/00	14:28:37	F
				10.00	n/a	n/a	0.5	8.00	opaque	brown	yes	1060	gatchet	11/28/00	16:57:11	F
007		274-99-6B	BASF-FIELD BLANK	7.00	n/a	n/a	n/a	n/a	clear	none	none	1060	gatchet	11/28/00	16:57:12	F
008		274-99-7B	BASF-SMW-13	12.00	n/a	n/a	10.0	8.00	CLOUDY	brown	yes	1050	WARENDA	12/01/00	14:28:37	F
				12.00	n/a	n/a	11.0	7.00	opaque	brown	yes	1050	gatchet	11/28/00	16:57:12	F
009		274-99-8B	BASF-SMW-20	12.00	n/a	n/a	10.0	8.00	CLOUDY	brown	yes	1060	WARENDA	12/01/00	14:28:37	F
				13.00	n/a	n/a	11.0	7.00	opaque	brown	yes	1090	gatchet	11/28/00	16:57:12	F
010		TLI LCS	TLI LCS	n/a	n/a	n/a	n/a	n/a	HPLC H2O	COLORLESS	NO	1000	WARENDA	12/01/00	14:28:37	F
011		TLI LCSD	TLI LCSD	7.00	n/a	n/a	n/a	n/a	HPLC H2O	COLORLESS	NO	1000	WARENDA	12/01/00	14:28:38	F

*** End of Report ***

TRIANGLE LABORATORIES, INC. PAGE 1 OF

Dioxin Sample Preparation Tracking & Management Form

Project: 52366r1 Client: TriMatrix, Inc. (TMI03)

Solvent(s)/Acid(s): MeCl2 / Toluene / _____ Method: Method 8290: Tetra-Octa Matrix: Hz

Lot Numbers: 196614 / 00445c / _____ Extraction Date: 12/01/00

IS Spike: 20 µl conc: 0.1000 ng/µl

SS Spike: ___ µl conc: __.____ ng/µl

MS Spike: 40 µl conc: 0.0100 ng/µl

LCS Spike: 40 µl conc: 0.0100 ng/µl

S#.crd	TLI SAMPLE ID / CLIENT SAMPLE ID	GROSS WEIGHT Before	GROSS WEIGHT After	SAMPLE SIZE g / (ml)				
					EM	EM	EM	
					7582C	7554N	7556M	
					USF-AS	USF-MX	USF C	
					12/03/01	12/03/01	12/02/01	/ /
					12/01/00	12/01/00	12/02/00	/ /
					09 : 00	09 : 00	11 : 30	:
					0.1 ng/µl	0.01 ng/µl	0.01 ng/µl	ng/µl
					20 µl	40 µl	20 µl	µl
r1 | 000	TLI Blank / TLI Blank	XXXXXXXXX	XXXXXXXXX	1000	EM		EM	
r1 | 001	274-99-1B / BASF-SMW-5 pH=10→8 0.5ml	XXXXXXXXX	XXXXXXXXX	1080				
		19.8.1g	503.5g					
r1 | 002	274-99-2B / BASF-SMW-6 pH=13→8 10ml	XXXXXXXXX	XXXXXXXXX	1080				
		540.4g	504.5g					
r1 | 006	274-99-4B / BASF-DUP1 pH=11→1 10ml	XXXXXXXXX	XXXXXXXXX	1060				
		1555.0g	503.7g					
r1 | 007	274-99-6B / BASF-FIELD BLANK pH=7	XXXXXXXXX	XXXXXXXXX	1070				
		1553.2g	504.5g					
r1 | 008	274-99-7B / BASF-SMW-13 pH=12→8 10ml	XXXXXXXXX	XXXXXXXXX	1050				
		1550.7g	503.6g					
r1 | 009	274-99-8B / BASF-SMW-20 pH=12→8 10ml	XXXXXXXXX	XXXXXXXXX	1060				
		1573.0g	503.9g					
r1 | 010	TLI LCS / TLI LCS	XXXXXXXXX	XXXXXXXXX	1000		* EM		
r1 | 011	TLI LCSD / TLI LCSD	XXXXXXXXX	XXXXXXXXX	1000	EM	* EM	EM	

Gross weight of sample container + sample before/after aliquot removal.

Comments: used HPLC H2O (lot#000976) for blank, LCS, LCSD EM 12/1/00 used 1:1 Hz to adjust pH's EM 12/1/00 001, 002, 006, 008, 009 - cloudy, brown, strong odor 007 - clear, colorless, no odor EM 12/1/00

_____ Initials: _____ Date: ___/

Initials of both SPIKER AND OBSERVER must be entered. XXXXX = Gross Weight not provided for WATER

REV 05/27/97 (F

TRIANGLE LABORATORIES, INC.

DIOXIN SAMPLE EXTRACTION and CLEANUP TRACKING FORM

TLI Project No.: 52366 r1

Ext S#.crd and TLI Number	1	2	3	4	5	6	7	8	9
r1 000 TLI Blank	[illegible] 12/1/00	[illegible] 12/4/00	MG 12/2/00	MG 12/2/00	NA	NA	MG 12/2/00	[illegible] 12/4/00	[illegible] 12/4/00
r1 001 274-99-1B					MG 12/2/00	MG 12/2/00			
r1 002 274-99-2B									
r1 006 274-99-4B									
r1 007 274-99-6B					NA	NA			
r1 008 274-99-7B					MG 12/2/00	MG 12/2/00			
r1 009 274-99-8B									
r1 010 TLI LCS					NA	NA			
r1 011 TLI LCSD	[illegible] 12/1/00	[illegible] 12/4/00			NA	NA		[illegible] 12/4/00	[illegible] 12/4/00

Enter the procedure number below into the box at the top of each column to signify the step performed.
Initial and date each sample for each numbered procedure performed.

#	PROCEDURE	SOP.#	.v.	DETAILS (circle)
1)	EXTRACTION	16	16	Time On 14 : 30 Time Off 6 : 30
				Soxhlet / Jar / Sep Funnel / Steam Dist / Cont LL / ASE / Waste Dilution
2)	SPIKE AFTER EXT'N			
3)	ADD TRIDECANE			Lot# 4-1-23-2928
4)	ROTOVAP	____	____	40mL / 10mL / Dryness
5)	COMBINE	____	____	
6)	DIV./LIP. DETERM.	____	____	20%/80% 50%/50% 5mL/20mL Other____
7)	SOLVENT EXCHANGE			Iso-Octane Lot#____ Heptane Lot# V554 112838
8)	CLEANUP	17		DSP 260 / Modified DSP 260 / DSP 280 / Other ____
9)	TRANSFER	[illegible]		
10)	ADDITIONAL CLEANUP		____	DSP260(10g)
11)	FINAL TRANSFER	____	____	

Comments: ____

TRIANGLE LABORATORIES, INC.
Transfer Chain-of-Custody Form
Project 52366-r1

Transfer From: DWLL5 To: DMS5

	Initials..	Date.....	Time...
Released by:	JJ	12/4/00	21:10
Accepted by:	MVL	12/04/00	21:30

MILES.ID.....	TLI_No.....	Cust.Id.....
52366-r1 -000	TLI Blank	TLI Blank
52366-r1 -001	274-99-1B	BASF-SMW-5
52366-r1 -002	274-99-2B	BASF-SMW-6
52366-r1 -006	274-99-4B	BASF-DUP1
52366-r1 -007	274-99-6B	BASF-FIELD BLANK
52366-r1 -008	274-99-7B	BASF-SMW-13
52366-r1 -009	274-99-8B	BASF-SMW-20
52366-r1 -010	TLI LCS	TLI LCS
52366-r1 -011	TLI LCSD	TLI LCSD

XfrCOC (Rev 11/01/

Additional comments or instructions:

TRIANGLE LABORATORIES, INC.

HR GC/HRMS ANALYSIS

Method: Method 8290: Tetra-Octa

Required Detection Limit: 10 ppq

PROJECT:

SAMPLE INFORMATION

1ST COLUMN 2ND COLUMN

RS Conc 20 µl @ 100.0 P

S#.crd	TLI SAMPLE ID / CLIENT SAMPLE ID	GC/MS FILENAME COLUMN: DB5	CONFIRM	CONFIRM FILENAME COLUMN: DB225	USF-RS 100 VOLUME 20µl SOLN ID 7560 K	USF-RS 100 INIT. MVL DATE 12/04/00	ANALYSIS COMMENTS
r1 000	TLI Blank / TLI Blank	T005998	N				
r1 001	274-99-1B / BASF-SMW-5	T005999	Y	P004408			
r1 002	274-99-2B / BASF-SMW-6	T006000	Y	P004409			
r1 006	274-99-4B / BASF-DUP1	T006001	Y	P004410			
r1 007	274-99-6B / BASF-FIELD BLANK	T006002	N				
r1 008	274-99-7B / BASF-SMW-13	T006003	Y	P004411			
r1 009	274-99-8B / BASF-SMW-20	T006007 / T006004	Y	P004412			
r1 010	TLI LCS / TLI LCS	T006005	—				
r1 011	TLI LCSD / TLI LCSD	T006006	—				

Comments: _____

Type: B

Spike File: SPMIT

Amt of Extract:

REV 03/07/95

Triangle Laboratories, Inc.
Run Log

Instrument ID	Column Type	Column ID	Plot Name	Inj. Vol.	Acquisition	G/C
707	DB-5	0685815	T02	2.0 µl	HDBSW	HDBSW

Signature: [signature] Date: 12/5/00

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
T005990	12/5/00	06:39	52406	TLI LCS	2	TLI LCS	Auto	2.5 E6	[signature] 12/5/00	
T005991	↓	07:29	52419	TLI Blk	0	TLI Blk	Auto	2.5E6	[signature] 12/5/00	
T005992	↓	08:29	↓	275-53-1	1	20111210 1	↓	2.4E6	TMD 12/5/00	
↓ 93	↓	09:16	↓	275-53-2	2	20111210 2	↓	2.4E6	↓	
↓ 94	↓	10:03	↓	275-53-3	3	20111210 3	↓	2.8E6	↓	
T005995	12/5/00	10:50	52419	275-53-4	4	20111210 4	Auto		TMD 12/5/00	
T005996	↓	11:39	—	7584A	—	8240/1613 Cond 10	Auto	2.0 E6	[signature] 12/5/00	Good H113 F/B S/N = 36 TS/1. 75% 12/5/00
T005997	↓	12:34	—	7581A	—	RTC HK	Auto	14%	75% 12/5/00	
T005998	↓	13:42	52366.1	TLI Blank	0	TLI Blank	Auto	7.5E5	[signature] 12/5/00	
↓ 99	↓	14:29	↓	274-99-1B	1	BASF - SMW - 5	↓	1.2E6	↓	
T006000	↓	15:16	↓	274-99-2B	2	BASF - SMW - 6	↓	1.1E6	↓	
↓ 1	↓	16:03	↓	274-96.4B	6	BASF - DUP 1	↓	8.5E5	↓	
T006002	↓	16:50	52366.1	274-99-6B	7	BASF - FIELD BLANK	Auto	1.2 E6	[signature] 12/5/00	

* Transcribed from chromatographic data
** Dated initials required

ConCal Due: 11:51 [signature] 12-5-00
ConCal Due:

Triangle Laboratories, Inc.
Run Log

Instrument ID	Column Type	Column ID	Plot Name	Inj. Vol.	Acquisition	G/C
7UT	DB5	0685815	TOZ	2.0 l	[illegible]	[illegible]

Signature: [signature] Date: 12/5/00

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
T006003	12/5/00	17:37	52366-1	274-99-7B	8	BASF-SMW-13	Auto	1.1 E6	[illegible] 12/5/00	
↓ 4	↓	18:24	↓	274-99-8B	9	BASF-SMW-20	↓	—	↓	Reshot. Cont Lock mass DFS 12/5/00
↓ 5	↓	19:11	↓	TLI CCS	10	TLI CCS	↓	1.3 E6	↓	
T006010 6	↓	19:58	52366-1	TLI CCSD	11	TLI CCSD.	Auto	8.2 E5	[illegible] 12/5/00	
T006007	12/5/00	20:55	52366-1	274-99-8B	9	BASF-SMW-20	Auto	4.7 E5	DFS 12/5/00	
↓ 08	↓	21:42	52397	275-31-1A-E	1	W.O44 49SL110ETPSL (COMPOSITE)	↓	—	↓	NO INJECTION SYRINGE BENT.
T006009	12/5/00	—	52408B	275-42-2	1	WA030-SL-110-XNOVCL	Auto	—	DFS 12/5/00	DFS 12/5/00
T006010	12/5/00	23:19	—	7584A	—	3290/1613 Conc. 100	Auto	1.1 E6	DFS 12/5/00	Conc FIB [illegible]
T006011	12/6/00	00:15	—	7581A	—	RTCHK	Auto	14%	[illegible] 12/6/00	
T006012	↓	01:17	52448	TLI Blank	0	TLI Blank	Auto	7.2 E5	[illegible] 12/6/00	
T006013	↓	02:04	↓	275-82-1A-D	1	IO-1F Filter, XAP, [illegible]	↓	5.7 E5	↓	
T006014	↓	02:51	↓	275-82-2A-D	2	S-1F	↓	5.7 E5	↓	
T006015	12/6/00	03:38	52448	275-82-3A-D	3	IO-2F	Auto	1.0 E6	[illegible] 12/6/00	

* Transcribed from chromatographic data

ConCal Due: 23:39 [illegible] 12/5/00

Triangle Laboratories, Inc.
Run Log

Instrument ID	Column Type	Column ID	Plot Name	Inj. Vol.	Acquisition	G/C
70P	DB225	06Y2915	TTI	2.0µl	DB225	DB225

Signature

12/5/00
Date

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
P004402	12/05/00	14:17	—	7581A	—	Rinse	Auto		hl 12/5/00	* per chem hl 12/5/00
P004403	12/05/00	15:09	—	7568A	—	TETRA COCKTAIL 5.0	Auto	11 E6	DFS 12/05/00	GOOD MIT3. DFS 12/05/00
P004404	12/05/00	16:26	52448	TLI BLANK	0	TLI BLANK	Auto	6.1 E5	DFS 12/05/00	
05		17:12		275-82-1A-D	1	IO-1F FILTER, XAD, ACE/MECL2, TOL		7.3 E5		
06		17:58		275-82-2A-D	2	5-1F FILTER, XAD, ACE/MECL2, TOL		5.1 E5		
P004407		18:43	52448	275-82-3A-D	3	IO-2F FILTER, XAD, ACE/MECL2, TOL	Auto	7.2 E5	DFS 12/05/00	
P004408	12/05/00	19:38	52366r1	274-99-1B	1	BASF-SNW-5	Auto	9.8 E5	DFS 12/05/00	
09		20:23		274-99-2B	2	BASF-SNW-6		6.4 E5		
10		21:08		274-99-4B	6	BASF-DUP1		5.8 E5		
11		21:53		274-99-7B	8	BASF-SNW-13		8.0 E5		
P004412		22:39	52366r1	274-99-8B	9	BASF-SNW-20	Auto	5.4 E5	DFS 12/05/00	
P004413	12/05/00	23:24	52433	275-67-1	1	Jones-E	Auto	1.9 E4	12/05/00	
P004414	12/06/00	00:09	52383B	275-17-3	1	FLIR SL-10300	L	6.4 E5	L	

Transcribed from chromatographic data
* Dated initials required

ConCal Due: 03:07 DFS 12/5/00

Triangle Laboratories, Inc.
Run Log

Instrument ID	Column Type	Column ID	Plot Name	Inj. Vol.	Acquisition	G/C
70P	DB-225	0682915	TTI	2.0µl	DB225	DB225

Signature: [signature] Date: 12/6/00

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
P004415	12/06/00	00:54	—	7564A	—	Tetra Conc 5.0	Auto	1.2 E6	[signature] 12/6/00	Good F/A, and Cond only, [signature] 12/6/00
P004416	↓	05:35	—	7581A	—	RTCHK	Auto	8%	[signature] 12/6/00	
P004417	↓	06:20	—	7564A	—	Tetra Conc 5.0	↓	1.1 E6	↓	Good for All Methods. HZ 12/06/00
P004418	12/06/00	09:50	—	7560K	—	RS-100	Auto	3.1 E6	HZ 12/06/00	Clean. HZ 12/06/00
P004419	↓	10:35	52391Y1	275-25-1	1	2011-066-01/01-X-X	↓	1.4 E6	↓	
P004420	↓	11:20	↓	275-25-2	2	2011-066-02/04-L-X	↓	9.5 E5	↓	
P004421	↓	12:05	↓	275-25-3	3	2011-066-03/05-L-X	↓	8.9 E5	↓	
P004422	↓	12:50	↓	275-25-4	4	2011-066-04/06-L-X	↓	1.2 E6	↓	
P004423	↓	13:35	52391Y1	275-25-5	5	2011-066-05/07-L-X	Auto	1.3 E6	HZ 12/06/00	
P004424	↓	14:38	52448	275-82-4A-D	4	S-2F Filter, XAD, Ace/MeCl2, TOI	↓	1.7 E5	JSY 12/6/00	
↓ 25	↓	15:22	↓	275-82-5A-D	5	FB-1F Filter, XAD, Ace/MeCl2, TOI	↓	1.1 E6	↓	
↓ 26	↓	16:07	↓	275-82-6A-D	6	ID-3F Filter, XAD, Ace/MeCl2, TOI	↓	1.0 E6	↓	
P004427	12/6/00	16:52	↓	275-82-7A-D	7	S-3F Filter, XAD, Ace/MeCl2, TOI	Auto	1.2 E6	JSY 12/6/00	

* Transcribed from chromatographic data

TRIANGLE LABS

SAMPLE DATA

Triangle Laboratories, Inc.
801 Capitola Drive
Durham, NC 27713-4411
919-544-5729
P.O. Box 13485
Research Triangle Park, NC
Fax # 919-544-5491

TRIANGLE LABORATORIES, INC.

LAB CONTROL SPIKE RECOVERY ANALYSIS AND COMPARISON

Project: 52366 - r1

Matrix: WATER

Method: 8290

Isomer	T005998 ID: TLI Blank Sample (pg/l)	T006005 ID: TLI LCS With Spike (pg/l)	Percent Recovery	T006006 ID: TLI LCSD Spike Dup (pg/l)	Percent Recovery	Relative Percent Difference
2378-TCDD	ND	426	107	447	112	4.57
12378-PeCDD	ND	1930	96.3	2140	107	10.5
123478-HxCDD	ND	2260	113	2300	115	1.75
123678-HxCDD	ND	2070	103	2240	112	8.37
123789-HxCDD	ND	2250	112	2530	126	11.8
1234678-HpCDD	ND	2140	107	2350	118	9.78
OCDD	ND	3920	97.9	4260	106	7.95
2378-TCDF	ND	402	101	435	109	7.62
12378-PeCDF	ND	2110	106	2180	109	2.79
23478-PeCDF	ND	2200	110	2290	114	3.57
123478-HxCDF	ND	2220	111	2370	118	6.11
123678-HxCDF	ND	2150	107	2390	119	10.6
234678-HxCDF	ND	2540	127	2840	142	11.2
123789-HxCDF	ND	2410	120	2920	146	19.5
1234678-HpCDF	ND	2100	105	2250	113	7.34
1234789-HpCDF	ND	2330	116	2590	130	11.4
OCDF	ND	3660	91.4	4160	104	12.9

ND: Not Detected

NA: Not Applicable

[..]: EMPC Value

MILES 4.22.16

GRY_PSUM v1.10

Processed By: JCA Date: 12/13/00

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	T005998		T005999		T006000		T006001	
Sample ID	TLI Blank		BASF-SMW-5		BASF-SMW-6		BASF-DUP1	
Units	pg/l		pg/l		pg/l		pg/l	
Extraction Date	12/01/2000		12/01/2000		12/01/2000		12/01/2000	
Analysis Date	12/05/2000		12/05/2000		12/05/2000		12/05/2000	
Instrument	T		T		T		T	
Matrix	WATER		WATER		WATER		WATER	
Extraction Type								
Analytes								
2378-TCDD	(1.6)		71.6		37.7		62.7	
12378-PeCDD	(1.4)		115		103		115	
123478-HxCDD	(1.9)		109		120		107	
123678-HxCDD	(1.9)		1270		486		2390	
123789-HxCDD	(1.9)		561		343		888	
1234678-HpCDD	(2.9)		15640		6480		45150	E
OCDD	(4.2)		123200	E	47180	E	229590	E
2378-TCDF	(1.1)		443		807		530	
12378-PeCDF	(1.2)		304		482		{858}	X
23478-PeCDF	(1.2)		187		335		184	
123478-HxCDF	(1.3)		416		947		569	
123678-HxCDF	(1.3)		127		252		151	
234678-HxCDF	(1.4)		115		135		111	
123789-HxCDF	(1.7)		95.4		62.6		12.1	J
1234678-HpCDF	(1.7)		410		808		782	
1234789-HpCDF	(2.1)		{84.1}		167		101	
OCDF	(3.5)		529		759		585	
TOTAL TCDD	(1.6)		1800		280		2820	
TOTAL PeCDD	(1.4)		313		317		717	
TOTAL HxCDD	(1.9)		10540		6090		20210	
TOTAL HpCDD	(2.9)		29530		13740		76610	E
TOTAL TCDF	(1.1)		1220	X	3040	X	2370	X
TOTAL PeCDF	(1.2)		932	X	1950	X	1160	X
TOTAL HxCDF	(1.4)		1530	X	1800	X	2000	X
TOTAL HpCDF	(1.9)		916		1610		1850	
Other Standards Percent Recovery Summary (% Rec)								
37Cl-TCDD	82.1		84.6		90.0		102	
Other Standards Percent Recovery Summary (% Rec)								
13C12-PeCDF 234	70.5		4.4	V	4.2	V	58.3	
13C12-HxCDF 478	60.1		3.0	V	4.1	V	71.2	
13C12-HxCDD 478	61.2		2.8	V	4.2	V	73.8	
13C12-HpCDF 789	72.2		2.7	V	4.1	V	68.5	
Other Standards Percent Recovery Summary (% Rec)								
13C12-HxCDF 789	82.6		3.5	V	4.0	V	81.1	
13C12-HxCDF 234	63.2		3.1	V	3.3	V	77.0	
Internal Standards Percent Recovery Summary (% Rec)								
13C12-2378-TCDF	62.9		7.0	V	4.6	V	87.3	
13C12-2378-TCDD	62.0		6.0	V	5.2	V	70.1	

Data File	T005998	T005999		T006000		T006001
Sample ID	TLI Blank	BASF-SMW-5		BASF-SMW-6		BASF-DUP1
Units	pg/l	pg/l		pg/l		pg/l
Extraction Date	12/01/2000	12/01/2000		12/01/2000		12/01/2000
Analysis Date	12/05/2000	12/05/2000		12/05/2000		12/05/2000
Instrument	T	T		T		T
Matrix	WATER	WATER		WATER		WATER
Extraction Type						
Internal Standards	Percent Recovery	Summary (% Rec)				
13C12-PeCDF 123	63.4	3.8	V	4.6	V	58.1
13C12-PeCDD 123	82.4	5.0	V	5.5	V	64.6
13C12-HxCDF 678	56.6	2.6	V	3.9	V	67.7
13C12-HxCDD 678	62.5	3.0	V	4.3	V	69.0
13C12-HpCDF 678	63.7	2.7	V	3.9	V	61.7
13C12-HpCDD 678	61.9	3.8	V	6.3	V	80.3
13C12-OCDD	63.5	2.2	V	4.0	V	59.6

Data File	T006002		T006003		T006007		T006005
Sample ID	BASF-FIELD BLANK		BASF-SMW-13		BASF-SMW-20		TLI LCS
Units	pg/l		pg/l		pg/l		pg/l
Extraction Date	12/01/2000		12/01/2000		12/01/2000		12/01/2000
Analysis Date	12/05/2000		12/05/2000		12/05/2000		12/05/2000
Instrument	T		T		T		T
Matrix	WATER		WATER		WATER		WATER
Extraction Type							
Analytes							
2378-TCDD	(1.7)		(5.3)		(121)		426
12378-PeCDD	(1.3)		(4.8)		(215)		1930
123478-HxCDD	(1.6)		(7.3)	J	348		2260
123678-HxCDD	(1.6)		70.9		1440		2070
123789-HxCDD	(1.6)		40.2	J	1100		2250
1234678-HpCDD	(2.3)		1370		26770	E	2140
OCDD	7.5	J	5240		172670	E	3920
2378-TCDF	(1.1)		132		2850		402
12378-PeCDF	(1.2)		24.8	J	(1690)	X	2110
23478-PeCDF	(1.1)		23.7	J	849		2200
123478-HxCDF	(1.2)		41.5	J	2930		2220
123678-HxCDF	(1.1)		15.6	J	878		2150
234678-HxCDF	(1.2)		15.2	J	759		2540
123789-HxCDF	(1.5)		7.5	J	(133)		2410
1234678-HpCDF	(1.5)		56.9		3890		2100
1234789-HpCDF	(1.9)		10.4	J	742		2330
OCDF	(2.9)		42.5	J	4570		3660
TOTAL TCDD	(1.7)		83.1		330		
TOTAL PeCDD	(1.3)		(26.0)		1510		
TOTAL HxCDD	(1.6)		637		12810		
TOTAL HpCDD	(2.3)		2430		51020	E	
TOTAL TCDF	(1.1)		482	X	9510		
TOTAL PeCDF	(1.1)		137	X	5830	X	
TOTAL HxCDF	(1.3)		166		8280		
TOTAL HpCDF	(1.7)		111		7840		
Other Standards Percent Recovery Summary (% Rec)							
37Cl-TCDD	80.8		82.7		113		46.2
Other Standards Percent Recovery Summary (% Rec)							
13C12-PeCDF 234	85.9		16.3	V	3.8	V	48.4
13C12-HxCDF 478	67.3		20.2	V	4.7	V	40.2
13C12-HxCDD 478	75.8		20.4	V	5.1	V	46.2
13C12-HpCDF 789	85.7		22.3	V	3.1	VRO	44.6
Other Standards Percent Recovery Summary (% Rec)							
13C12-HxCDF 789	86.0		20.6	V	6.1	V	48.6
13C12-HxCDF 234	78.3		16.5	V	5.3	V	47.4
Internal Standards Percent Recovery Summary (% Rec)							
13C12-2378-TCDF	73.2		15.8	V	6.8	V	42.1
13C12-2378-TCDD	67.0		18.4	V	6.2	V	37.9 V

Data File	T006002	T006003	T006007	T006005
Sample ID	BASF-FIELD BLANK	BASF-SMW-13	BASF-SMW-20	TLI LCS
Units	pg/l	pg/l	pg/l	pg/l
Extraction Date	12/01/2000	12/01/2000	12/01/2000	12/01/2000
Analysis Date	12/05/2000	12/05/2000	12/05/2000	12/05/2000
Instrument	T	T	T	T
Matrix	WATER	WATER	WATER	WATER
Extraction Type				
Internal Standards Percent Recovery Summary (% Rec)				
13C12-PeCDF 123	77.3	18.2 V	4.0 V	44.8
13C12-PeCDD 123	96.7	23.6 V	4.7 V	54.4
13C12-HxCDF 678	64.3	19.5 V	4.8 V	39.3 V
13C12-HxCDD 678	76.7	20.7 V	5.5 V	46.0
13C12-HpCDF 678	74.0	24.6 V	3.7 V	41.0
13C12-HpCDD 678	91.3	23.9 V	4.9 V	47.8
13C12-OCDD	84.3	25.5	1.5 V	44.9

Data File	T006006
Sample ID	TLI LCSD
Units	pg/l
Extraction Date	12/01/2000
Analysis Date	12/05/2000
Instrument	T
Matrix	WATER
Extraction Type	

Analytes	
2378-TCDD	447
12378-PeCDD	2140
123478-HxCDD	2300
123678-HxCDD	2240
123789-HxCDD	2530
1234678-HpCDD	2350
OCDD	4260
2378-TCDF	435
12378-PeCDF	2180
23478-PeCDF	2290
123478-HxCDF	2370
123678-HxCDF	2390
234678-HxCDF	2840
123789-HxCDF	2920
1234678-HpCDF	2250
1234789-HpCDF	2590
OCDF	4160

Other Standards	Percent Recovery Summary (% Rec)
37Cl-TCDD	52.6

Other Standards	Percent Recovery Summary (% Rec)
13C12-PeCDF 234	56.8
13C12-HxCDF 478	42.3
13C12-HxCDD 478	49.1
13C12-HpCDF 789	52.5

Other Standards	Percent Recovery Summary (% Rec)
13C12-HxCDF 789	56.2
13C12-HxCDF 234	50.8

Internal Standards	Percent Recovery Summary (% Rec)
13C12-2378-TCDF	47.6
13C12-2378-TCDD	47.0
13C12-PeCDF 123	53.5
13C12-PeCDD 123	63.3
13C12-HxCDF 678	41.4
13C12-HxCDD 678	50.9
13C12-HpCDF 678	47.3
13C12-HpCDD 678	50.6
13C12-OCDD	51.1

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

Data File	P004408	P004409	P004410	P004411
Sample ID	BASF-SMW-5	BASF-SMW-6	BASF-DUP1	BASF-SMW-13
Units	pg/l	pg/l	pg/l	pg/l
Extraction Date	12/01/2000	12/01/2000	12/01/2000	12/01/2000
Analysis Date	12/05/2000	12/05/2000	12/05/2000	12/05/2000
Instrument	P	P	P	P
Matrix	WATER	WATER	WATER	WATER
Extraction Type				
Analytes				
2378-TCDF	327	748	327	101
Internal Standards Percent Recovery Summary (% Rec)				
13C12-2378-TCDF	5.8 V	3.8 V	71.0	14.1 V

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Data File	P004412
Sample ID	BASF-SMW-20
Units	pg/l
Extraction Date	12/01/2000
Analysis Date	12/05/2000
Instrument	P
Matrix	WATER
Extraction Type	

Analytes	
2378-TCDF	1860

Internal Standards Percent Recovery Summary (% Rec)

13C12-2378-TCDF	5.7	V

TriMatrix, Inc.

TLI Project: **52366r1** Method 8290 PCDD/PCDF Analysis (
Client Sample: **TLI Blank** Analysis File: **T0059**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	/ /	Spike File:	**SPMIT32S**
TLI ID:	**TLI Blank**	Date Extracted:	**12/01/2000**	ICal:	**TF57140**
		Date Analyzed:	**12/05/2000**	ConCal:	**T005996**
Sample Size:	**1.000 L**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005998**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**BWL**	% Solids:	**n/a**

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flag
2,3,7,8-TCDD	ND	1.6				—
1,2,3,7,8-PeCDD	ND	1.4				—
1,2,3,4,7,8-HxCDD	ND	1.9				—
1,2,3,6,7,8-HxCDD	ND	1.9				—
1,2,3,7,8,9-HxCDD	ND	1.9				—
1,2,3,4,6,7,8-HpCDD	ND	2.9				—
1,2,3,4,6,7,8,9-OCDD	ND	4.2				—
2,3,7,8-TCDF	ND	1.1				—
1,2,3,7,8-PeCDF	ND	1.2				—
2,3,4,7,8-PeCDF	ND	1.2				—
1,2,3,4,7,8-HxCDF	ND	1.3				—
1,2,3,6,7,8-HxCDF	ND	1.3				—
2,3,4,6,7,8-HxCDF	ND	1.4				—
1,2,3,7,8,9-HxCDF	ND	1.7				—
1,2,3,4,6,7,8-HpCDF	ND	1.7				—
1,2,3,4,7,8,9-HpCDF	ND	2.1				—
1,2,3,4,6,7,8,9-OCDF	ND	3.5				—

Totals	Conc. (pg/L)	Number	DL	EMPC	Flag
Total TCDD	ND		1.6		—
Total PeCDD	ND		1.4		—
Total HxCDD	ND		1.9		—
Total HpCDD	ND		2.9		—
Total TCDF	ND		1.1		—
Total PeCDF	ND		1.2		—
Total HxCDF	ND		1.4		—
Total HpCDF	ND		1.9		—

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TriMatrix, Inc.

TLI Project: **52366r1** Method 8290 PCDD/PCDF Analysis
Client Sample: **TLI Blank** Analysis File: **T005**

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Fla
$^{13}C_{12}$-2,3,7,8-TCDF	1260	62.9	40%-130%	0.74	26:08	_
$^{13}C_{12}$-2,3,7,8-TCDD	1240	62.0	40%-130%	0.79	26:48	_
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1270	63.4	40%-130%	1.48	29:56	_
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1650	82.4	40%-130%	1.51	30:56	_
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1130	56.6	40%-130%	0.50	33:27	_
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1250	62.5	40%-130%	1.20	34:09	_
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1270	63.7	25%-130%	0.43	36:28	_
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1240	61.9	25%-130%	1.01	37:35	_
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	2540	63.5	25%-130%	0.83	41:30	_

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Fla
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1410	70.5	40%-130%	1.49	30:36	_
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1200	60.1	40%-130%	0.50	33:20	_
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1220	61.2	40%-130%	1.22	34:03	_
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1440	72.2	25%-130%	0.42	38:07	_

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Fla
$^{37}Cl_4$-2,3,7,8-TCDD	164	82.1	40%-130%	26:50	_

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Fla
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1650	82.6	40%-130%	0.51	34:45	_
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1260	63.2	40%-130%	0.51	33:56	_

Recovery Standards	Ratio	RT	Fla
$^{13}C_{12}$-1,2,3,4-TCDD	0.80	26:39	_
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.22	34:29	_

Data Reviewer: JGA 12/13/2000

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Printed: 17:40 12/1

TriMatrix, Inc.

TLI Project: **52366r1** Toxicity Equivalents Rep
Client Sample: **TLI Blank** Analysis File: **T005**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/00**	Spike File:	**SPMIT32**
TLI ID:	**TLI Blank**	Date Extracted:	**12/01/00**	ICal:	**TF57140**
		Date Analyzed:	**12/05/00**	ConCal:	**T005996**
Sample Size:	**1.000 L**	Dilution Factor:	**1**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005998**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**BWL**	% Solids:	**n/a**

Analytes	Conc. (pg/L)		TEF		Equivalent
2,3,7,8-TCDD	{1.6}	x	1.	=	1.6
1,2,3,7,8-PeCDD	{1.4}	x	0.5	=	0.70
1,2,3,4,7,8-HxCDD	{1.9}	x	0.1	=	0.19
1,2,3,6,7,8-HxCDD	{1.9}	x	0.1	=	0.19
1,2,3,7,8,9-HxCDD	{1.9}	x	0.1	=	0.19
1,2,3,4,6,7,8-HpCDD	{2.9}	x	0.01	=	0.029
1,2,3,4,6,7,8,9-OCDD	{4.2}	x	0.001	=	0.0042
TOTAL PCDD					2.9
2,3,7,8-TCDF	{1.1}	x	0.1	=	0.11
1,2,3,7,8-PeCDF	{1.2}	x	0.05	=	0.060
2,3,4,7,8-PeCDF	{1.2}	x	0.5	=	0.60
1,2,3,4,7,8-HxCDF	{1.3}	x	0.1	=	0.13
1,2,3,6,7,8-HxCDF	{1.3}	x	0.1	=	0.13
2,3,4,6,7,8-HxCDF	{1.4}	x	0.1	=	0.14
1,2,3,7,8,9-HxCDF	{1.7}	x	0.1	=	0.17
1,2,3,4,6,7,8-HpCDF	{1.7}	x	0.01	=	0.017
1,2,3,4,7,8,9-HpCDF	{2.1}	x	0.01	=	0.021
1,2,3,4,6,7,8,9-OCDF	{3.5}	x	0.001	=	0.0035
TOTAL PCDF					1.38

Total EPA TEFs, 1989a: 4.3 pg/L

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

GRY_TEF v1.08, MILL

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Printed: 17:44 12/

Initial ....Date...

Data Review By: JKA 12/13/00

Calculated Noise Height: 0.03

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 T005998B.dbf
12/13/2000 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			0.880-1.070				
304-306	DC	NL				Height	0.12	0.07	0.05				
	DC	SN		23:48	RO	1.45	0.19			0.911			
D	D	SN		27:01	RO	2.18	0.19			1.034			
304-306		0	Peaks				0.00						
13C12-TCDF						0.65-0.89			0.962-1.038				
316-318	DC	NL				Height	0.11	0.06	0.05				
				25:26	RO	1.46	0.62	0.51	0.35	0.973			
				25:46		0.66	2.03	0.81	1.22	0.986			
				26:08		0.74	449.66	190.66	259.00	1.000	13C12-2378-TCDF	ISO	
						Height	128.82	54.71	74.11				
				26:32		0.79	2.54	1.12	1.42	1.015			
316-318		4	Peaks				454.85						
---------- Above: TCDF / TCDD Follows ----------													
TCDD						0.65-0.89			0.904-1.042				
320-322	DC	NL				Height	0.07	0.04	0.03				
D	D	SN		24:54	RO	2.75	0.14			0.929			
D	D	SN		25:05	RO	0.39	0.21			0.936			
	DC	SN		25:11	RO	0.92	0.21			0.940			
	DC	SN		25:25	RO	0.29	0.11			0.948			
	DC	SN		25:42		0.67	0.05			0.959			
D	D	SN		26:08	RO	4.00	0.12			0.975			
	DC	SN		26:51		0.65	0.38			1.002	2378-TCDD		AN
	DC	SN		27:02	RO	1.15	0.23			1.009			
	DC	SN		27:10	RO	1.33	0.11			1.014			
	DC	WH		27:58	RO	0.44	0.16			1.044			
	DC	WH		28:13	RO	2.11	0.16			1.053			
320-322		0	Peaks				0.00						
37Cl-TCDD									0.925-1.075				
328	DC	NL				Height	0.04	0.04					
	DC	WL		24:25			0.06			0.911			
	DC	WL		24:29			0.02			0.914			
	DC	WL		24:35			0.03			0.917			
	DC	WL		24:36			0.05			0.918			
	DC	WL		24:43			0.07			0.922			
	DC	SN		24:55			0.20			0.930			
				25:02			0.11	0.11		0.934			
				25:32			0.19	0.19		0.953			
	DC	SN		25:39			0.03			0.957			
	DC	SN		25:44			0.08			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
					25:53			0.12	0.12		0.966			
					26:50			40.74	40.74		1.001	37Cl-TCDD	CLS	
					27:08			0.25	0.25		1.012			
					27:17			0.14	0.14		1.018			
					27:23			0.15	0.15		1.022			
					27:28			0.14	0.14		1.025			
	DC		SN		27:36			0.11			1.030			
	DC		SN		27:44			0.05			1.035			
					27:55			0.15	0.15		1.042			
	DC		SN		28:06			0.03			1.049			
	DC		SN		28:13			0.10			1.053			
328				9	Peaks			41.99						
13C12-TCDD					0.65-0.89						0.925-1.075			
332-334	DC		NL		Height			0.15	0.10	0.05				
					25:41	RO	1.26	0.81	0.58	0.46	0.958			
					26:39		0.80	557.49	246.94	310.55	0.994	13C12-1234-TCDD	RS1	
					26:48		0.79	363.39	160.40	202.99	1.000	13C12-2378-TCDD	IS1	
					Height			102.46	45.22	57.24				
					27:09	RO	0.34	0.51	0.22	0.64	1.013			
332-334				4	Peaks			922.20						
---------- Above: TCDD / PeCDF Follows ----------														
PeCDF					1.32-1.78						0.930-1.060			
340-342	DC		NL		Height			0.09	0.04	0.05				
D	D		SN		28:29	RO	0.77	0.16			0.952			
	DC		SN		28:41	RO	0.77	0.16			0.958			
	DC		SN		28:55	RO	0.83	0.16			0.966			
	DC		SN		29:04	RO	0.14	0.03			0.971			
	DC		SN		29:21	RO	1.80	0.13			0.981			
	DC		SN		29:45	RO	0.56	0.08			0.994			
	DC		SN		30:23	RO	0.27	0.07			1.015			
	DC		SN		30:36	RO	1.11	0.23			1.022	23478-PeCDF	AN	
340-342				0	Peaks			0.00						
13C12-PeCDF					1.32-1.78						0.866-1.134			
352-354	DC		NL		Height			0.09	0.04	0.05				
					29:07	RO	1.18	1.45	0.67	0.57	0.973			
					29:34	RO	0.92	0.74	0.45	0.49	0.988			
					29:56		1.48	423.51	252.43	171.08	1.000	13C12-PeCDF 123	IS2	
					Height			133.27	79.94	53.33				
					30:14		1.39	3.40	1.98	1.42	1.010			
					30:36		1.49	466.70	279.52	187.18	1.022	13C12-PeCDF 234	SUR1	
					30:55	RO	1.19	0.92	0.43	0.36	1.033			
					31:35		1.32	4.74	2.70	2.04	1.055			
352-354				7	Peaks			901.46						
---------- Above: PeCDF / PeCDD Follows ----------														
PeCDD					1.32-1.78						0.938-1.020			
356-358	DC		NL		Height			0.09	0.05	0.04				

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		29:41	RO	0.45	0.08			0.960			
	DC	SN		30:59	RO	0.40	0.13			1.002	12378-PeCDD	AN	
	DC	SN		31:09	RO	1.30	0.26			1.007			
356-358		0	Peaks				0.00						
13C12-PeCDD				1.32-1.78					0.871-1.129				
368-370	DC	NL		Height			0.10	0.06	0.04				
				29:54		1.52	1.61	0.97	0.64	0.967			
				30:01	RO	0.95	1.27	0.77	0.81	0.970			
				30:56		1.51	313.27	188.29	124.98	1.000	13C12-PeCDD 123	IS3	
				Height			103.69	62.36	41.33				
368-370		3	Peaks				316.15						

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

HxCDF													
374-376	DC	NL		Height			0.07	0.04	0.03				
D	D	SN		33:21		1.40	0.24			0.997	123478-HxCDF	AN	
	DC	SN		33:26	RO	1.56	0.20			1.000			
	DC	SN		33:57	RO	1.00	0.22			1.015			
	DC	SN		34:01	RO	0.25	0.02			1.017	234678-HxCDF	AN	
	DC	SN		34:07	RO	1.80	0.11			1.020			
	DC	SN		34:46	RO	2.56	0.20			1.039	123789-HxCDF	AN	
	DC	SN		34:58		1.20	0.11			1.045			
	DC	WH		35:06	RO	1.55	0.25			1.049			
374-376		0	Peaks				0.00						
13C12-HxCDF				0.43-0.59					0.880-1.120				
384-386	DC	NL		Height			0.09	0.04	0.05				
				32:22	RO	0.63	1.33	0.45	0.71	0.968			
				32:30		0.53	1.16	0.40	0.76	0.972			
				33:20		0.50	376.01	125.19	250.82	0.997	13C12-HxCDF 478	SUR2	
				33:27		0.50	359.06	119.69	239.37	1.000	13C12-HxCDF 678	IS4	
				Height			109.74	35.99	73.75				
				33:46	RO	0.28	0.44	0.15	0.53	1.009			
				33:56		0.51	366.01	123.04	242.97	1.014	13C12-HxCDF 234	ALT2	
				34:09	RO	1.03	0.50	0.34	0.33	1.021			
				34:45		0.51	351.20	118.46	232.74	1.039	13C12-HxCDF 789	ALT1	
				35:02		0.44	0.49	0.15	0.34	1.047			
384-386		9	Peaks				1,456.20						

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

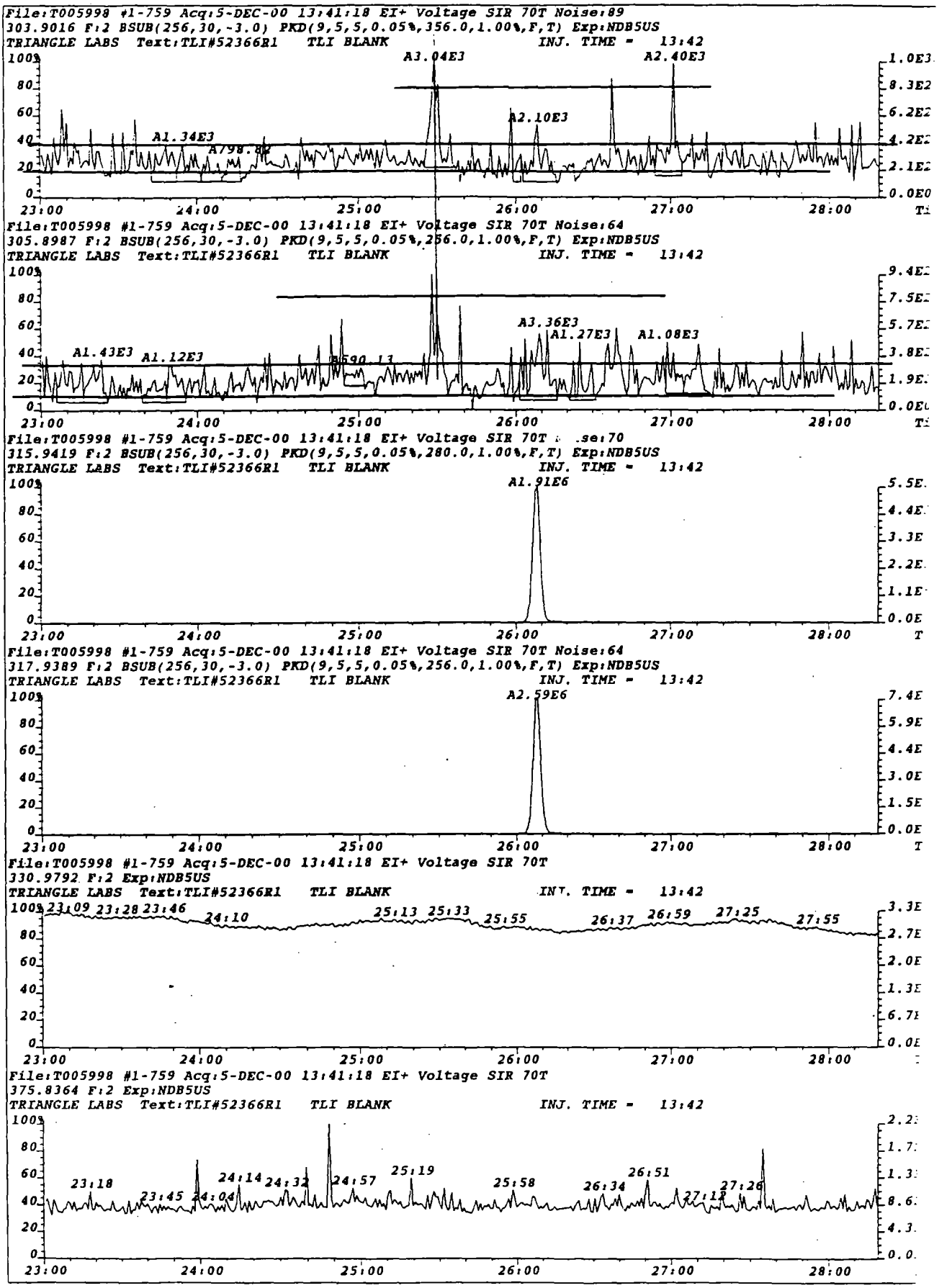
HxCDD													
390-392	DC	NL		Height			0.07	0.03	0.04				
	DC	SN		33:20	RO	2.14	0.16			0.976			
	DC	SN		33:41	RO	0.57	0.07			0.986			
	DC	SN		33:49	RO	0.80	0.07			0.990			
	DC	SN		34:04		1.20	0.11			0.998	123478-HxCDD	AN	
	DC	SN		34:18		1.25	0.09			1.004			
D	D	SN		34:27		1.09	0.23			1.009	123789-HxCDD	AN	
	DC	WH		34:45	RO	7.00	0.07			1.018			

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		34:52	RO	0.56	0.09			1.021			
	DC	WH		34:57	RO	0.60	0.05			1.023			
390-392		0	Peaks				0.00						
13C12-HxCDD				1.05-1.43						0.971-1.029			
402-404	DC	NL		Height			0.11	0.05	0.06				
				33:32		1.36	1.72	0.99	0.73	0.982			
				34:03		1.22	251.44	138.14	113.30	0.997	13C12-HxCDD	478	SUR3
				34:09		1.20	248.10	135.10	113.00	1.000	13C12-HxCDD	678	IS5
				Height			76.57	41.75	34.82				
				34:29		1.22	437.09	239.85	197.24	1.010	13C12-HxCDD	789	RS2
				34:49	RO	0.39	0.34	0.19	0.49	1.020			
				34:51	RO	0.32	0.16	0.09	0.28	1.020			
402-404		6	Peaks				938.85						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF				0.88-1.20						0.995-1.050			
408-410	DC	NL		Height			0.08	0.04	0.04				
D	D	SN		36:30	RO	1.58	0.24			1.001	1234678-HpCDF		AN
	DC	SN		36:56	RO	1.67	0.24			1.013			
	DC	SN		37:13		1.00	0.18			1.021			
D	D	SN		38:12	RO	1.70	0.20			1.048			
	DC	WH		38:34	RO	2.00	0.12			1.058			
408-410		0	Peaks				0.00						
13C12-HpCDF				0.37-0.51						0.945-1.110			
418-420	DC	NL		Height			0.08	0.04	0.04				
				36:28		0.43	270.27	81.85	188.42	1.000	13C12-HpCDF	678	IS6
				Height			72.33	22.12	50.21				
				38:07		0.42	238.07	70.77	167.30	1.045	13C12-HpCDF	789	SUR4
	DC	SN		38:31	RO	0.35	0.29			1.056			
418-420		2	Peaks				508.34						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD				0.88-1.20						0.974-1.004			
424-426	DC	NL		Height			0.06	0.03	0.03				
D	D	SN		36:46	RO	0.85	0.22			0.978			
424-426		0	Peaks				0.00						
13C12-HpCDD				0.88-1.20						0.973-1.027			
436-438	DC	NL		Height			0.19	0.10	0.09				
				36:46	RO	1.28	0.59	0.37	0.29	0.978			
				37:35		1.01	232.01	116.40	115.61	1.000	13C12-HpCDD	678	IS7
				Height			61.23	30.75	30.48				
436-438		2	Peaks				232.60						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF				0.76-1.02						0.904-1.096			
442-444	DC	NL		Height			0.06	0.03	0.03				

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.
		DC	SN	38:47	RO	0.63	0.11			0.935			
		DC	SN	38:53	RO	1.75	0.08			0.937			
		DC	SN	39:35	RO	0.71	0.11			0.954			
		DC	SN	41:36	RO	0.75	0.19			1.002			
	D	D	SN	41:43	RO	0.56	0.42			1.005	OCDF		AN
		DC	SN	41:53	RO	1.17	0.11			1.009			
				43:26	RO	1.67	0.17	0.15	0.09	1.047			
		DC	SN	43:41	RO	2.50	0.11			1.053			
		DC	SN	44:25	RO	3.00	0.04			1.070			
442-444			1 Peak				0.17						
OCDD					0.76-1.02					0.904-1.096			
458-460		DC	NL		Height		0.06	0.03	0.03				
458-460			0 Peaks				0.00						
13C12-OCDD					0.76-1.02					0.996-1.004			
470-472		DC	NL		Height		0.06	0.03	0.03				
				41:30		0.83	387.52	176.13	211.39	1.000	13C12-OCDD		IS8
					Height		78.53	34.74	43.79				
470-472			1 Peak				387.52						

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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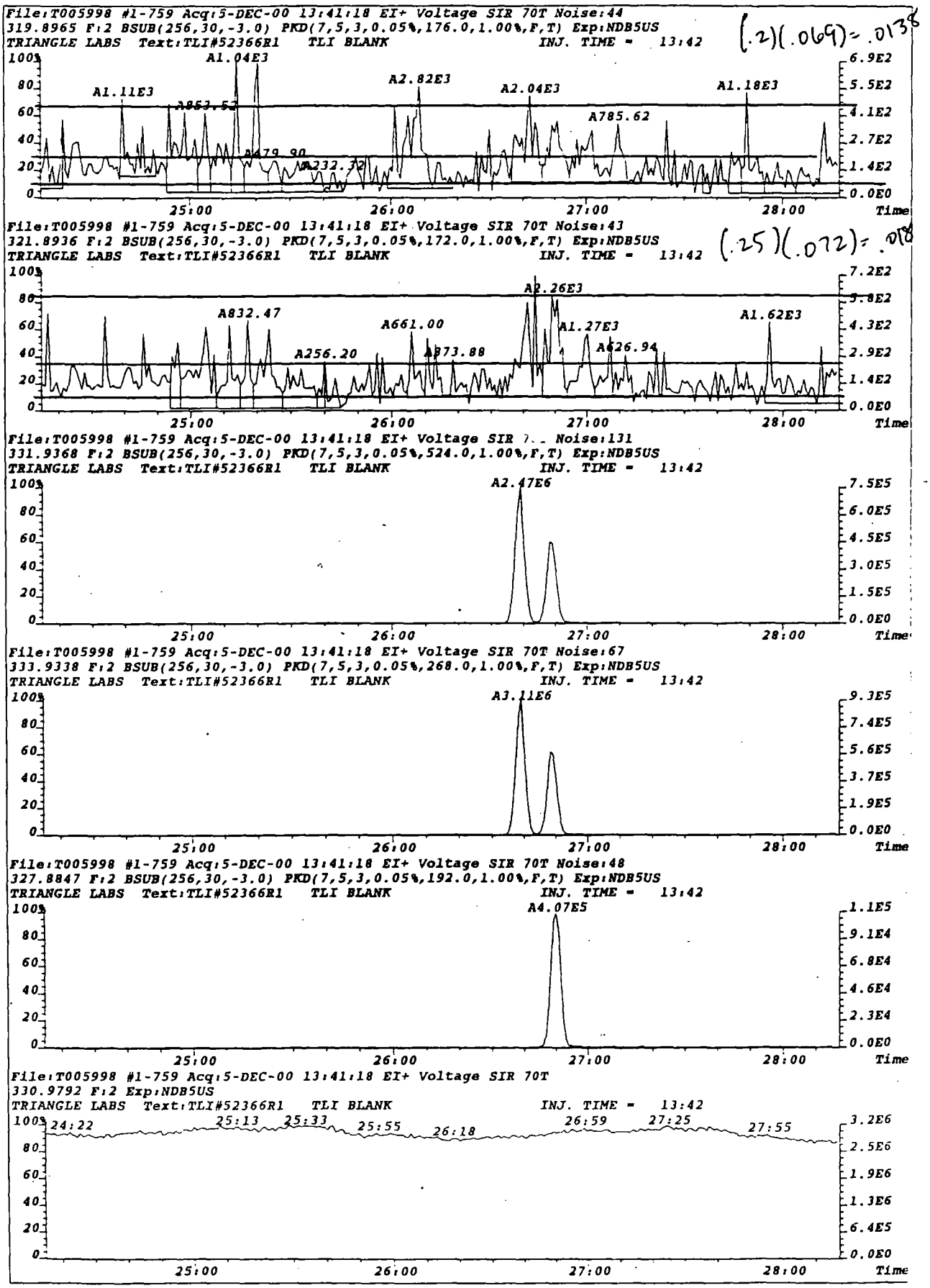
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,356.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A3.04E3
A2.40E3
A2.10E3
A1.34E3
A798.8
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:64
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A3.36E3
A1.27E3
A1.08E3
A1.43E3
A1.12E3
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,280.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A1.91E6
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:64
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A2.59E6
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
23:00
24:00
25:00
26:00
27:00
28:00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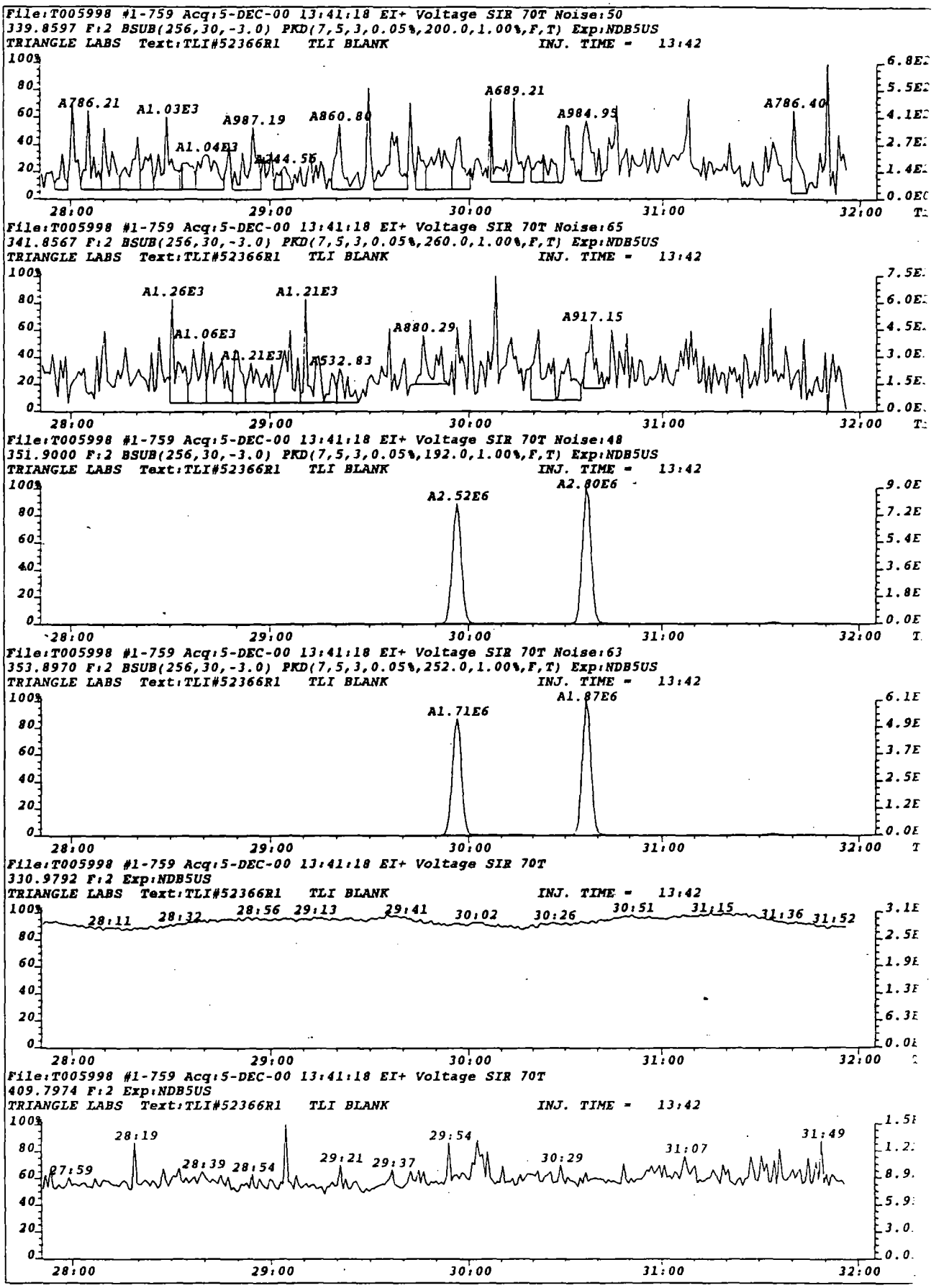
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,176.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
(.2)(.069)=.013
A1.04E3
A1.11E3
A2.82E3
A2.04E3
A1.18E3
A785.62
A853.53
A479.90
A232.32
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:43
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
(.25)(.072)=.018
A2.26E3
A832.47
A661.00
A1.27E3
A1.62E3
A256.20
A873.88
A626.94
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 7.. Noise:131
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,524.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A2.47E6
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:67
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A3.11E6
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:48
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,192.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A4.07E5
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
24:22
25:13
25:33
25:55
26:18
26:59
27:25
27:55
25:00
26:00
27:00
28:00
Time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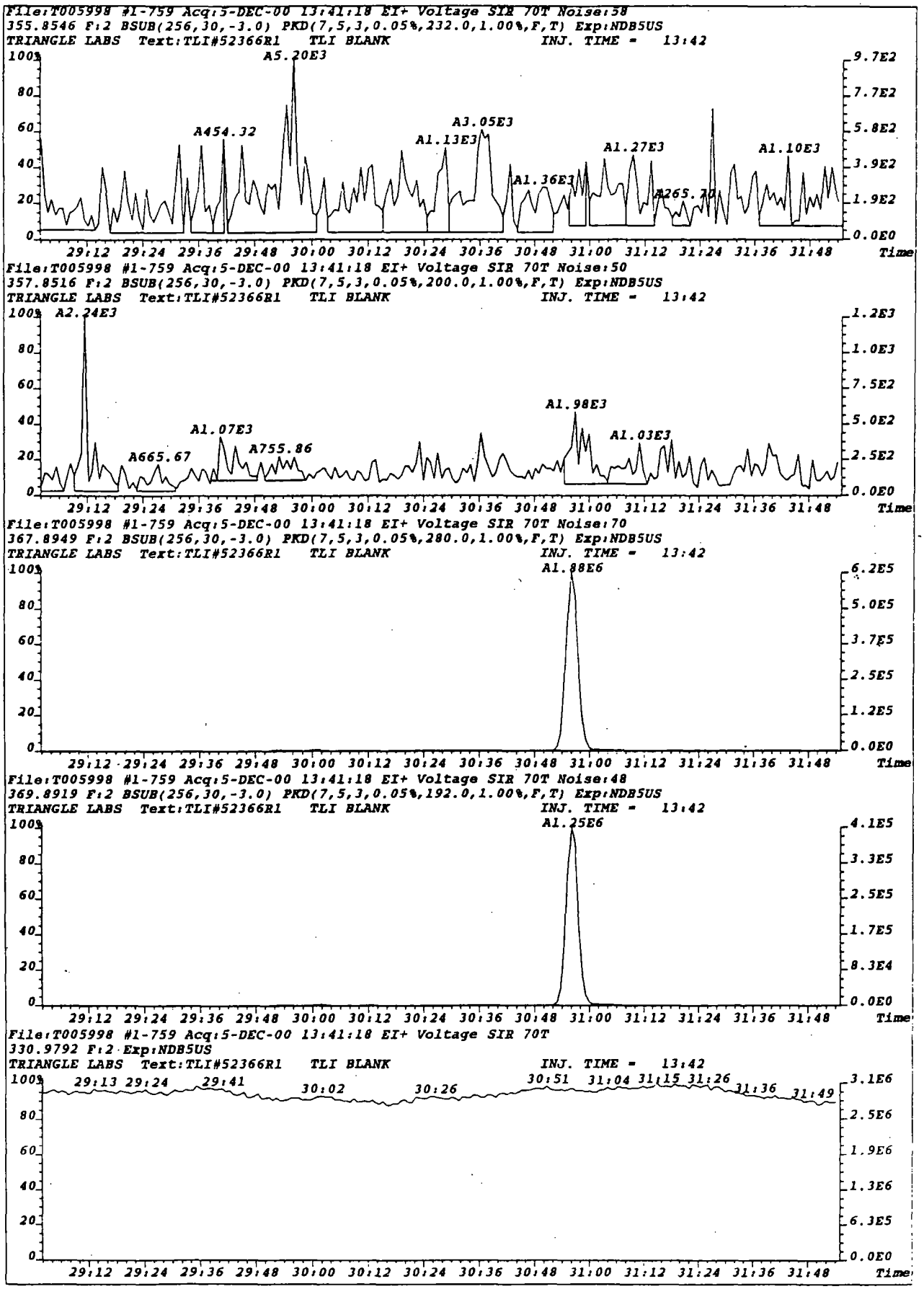
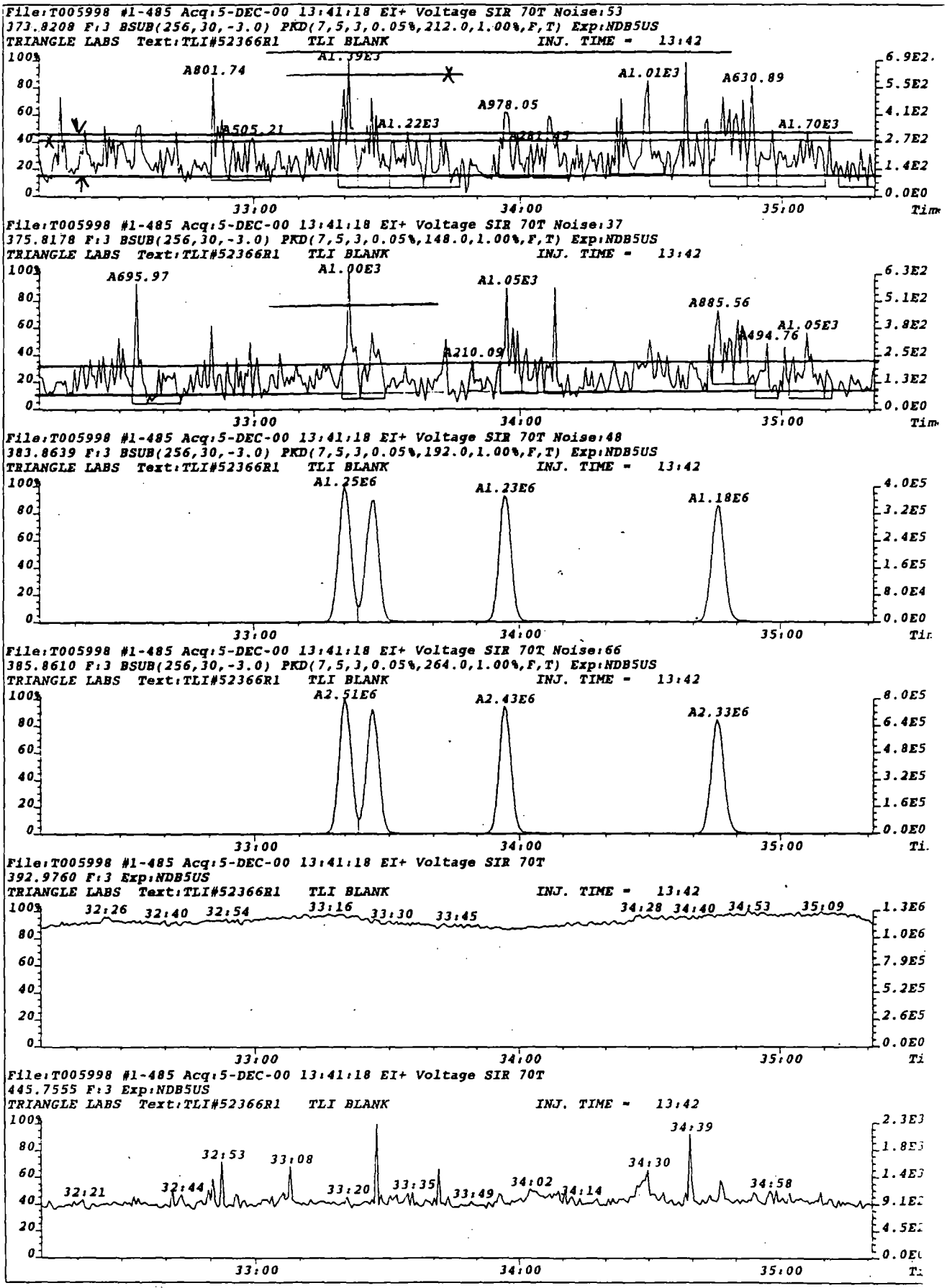
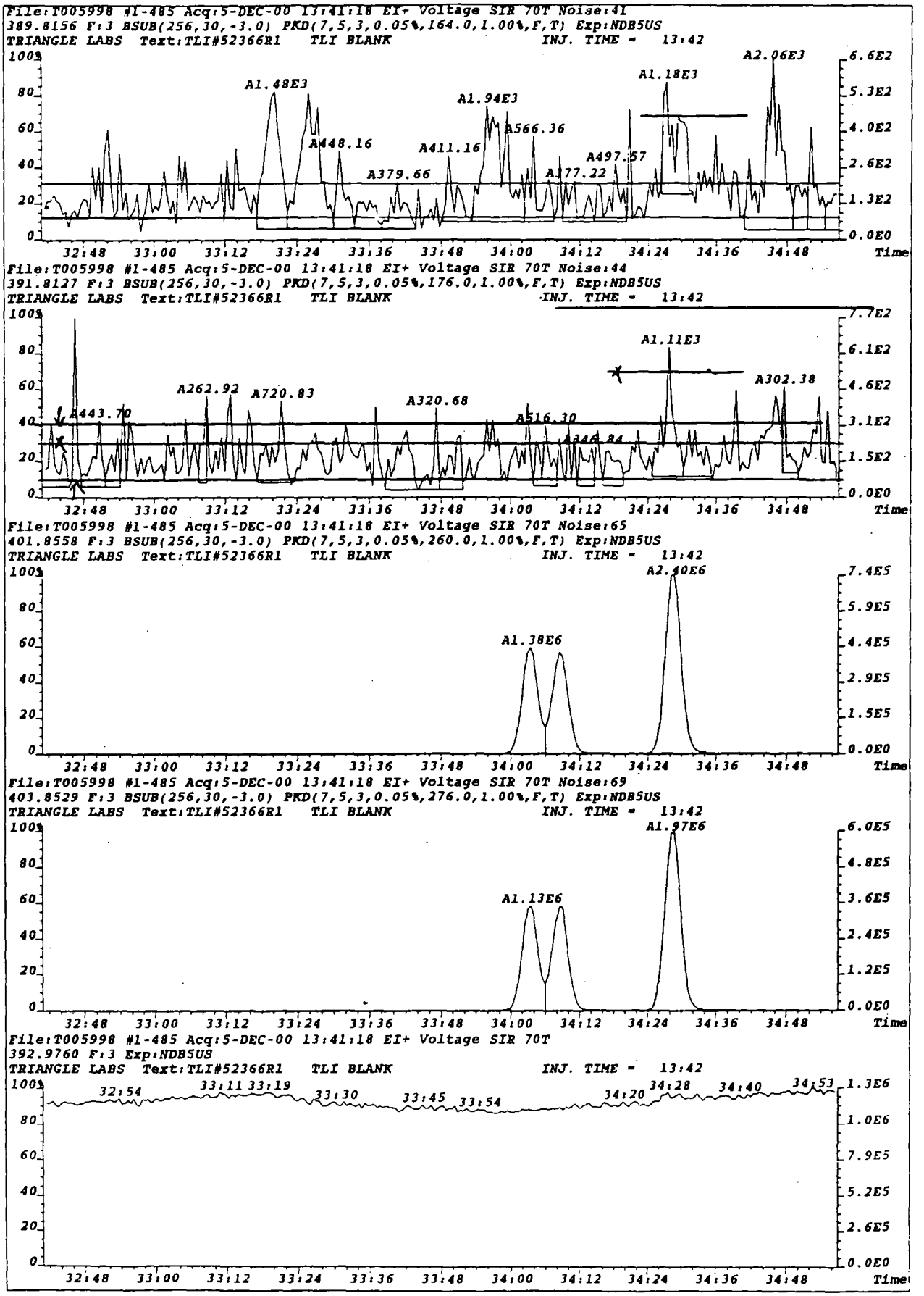
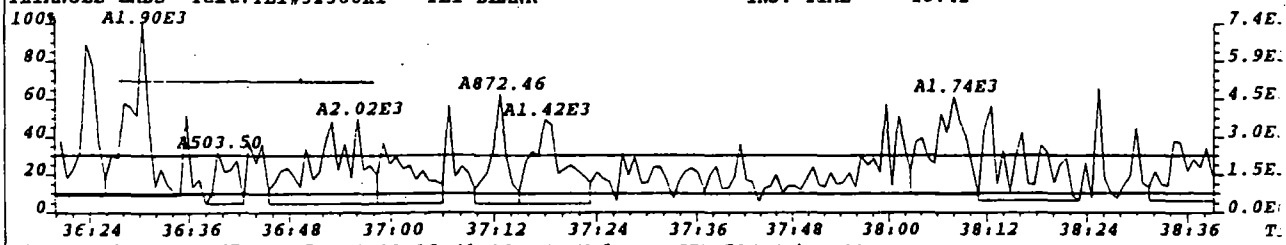
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A786.21
A1.03E3
A987.19
A860.80
A1.04E3
A689.21
A984.95
A786.40
28:00
29:00
30:00
31:00
32:00
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:65
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A1.26E3
A1.21E3
A1.06E3
A880.29
A917.15
28:00
29:00
30:00
31:00
32:00
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:48
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,192.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A2.52E6
A2.80E6
28:00
29:00
30:00
31:00
32:00
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:63
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A1.71E6
A1.87E6
28:00
29:00
30:00
31:00
32:00
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
28:11
28:32
28:56
29:13
29:41
30:02
30:26
30:51
31:15
31:36
31:52
28:00
29:00
30:00
31:00
32:00
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
28:19
29:54
31:49
27:59
28:39
28:54
29:21
29:37
30:29
31:07
28:00
29:00
30:00
31:00
32:00


File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:58
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A5.20E3
A454.32
A3.05E3
A1.13E3
A1.27E3
A1.10E3
A1.36E3
A265.70
9.7E2
7.7E2
5.8E2
3.9E2
1.9E2
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 Time
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:50
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A2.24E3
A1.98E3
A1.07E3
A1.03E3
A665.67
A755.86
1.2E3
1.0E3
7.5E2
5.0E2
2.5E2
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 Time
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:70
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,280.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A1.88E6
6.2E5
5.0E5
3.7E5
2.5E5
1.2E5
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 Time
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:48
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,192.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A1.25E6
4.1E5
3.3E5
2.5E5
1.7E5
8.3E4
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 Time
File:T005998 #1-759 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
29:13 29:24 29:41 30:02 30:26 30:51 31:04 31:15 31:26 31:36 31:49
3.1E6
2.5E6
1.9E6
1.3E6
6.3E5
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 Time

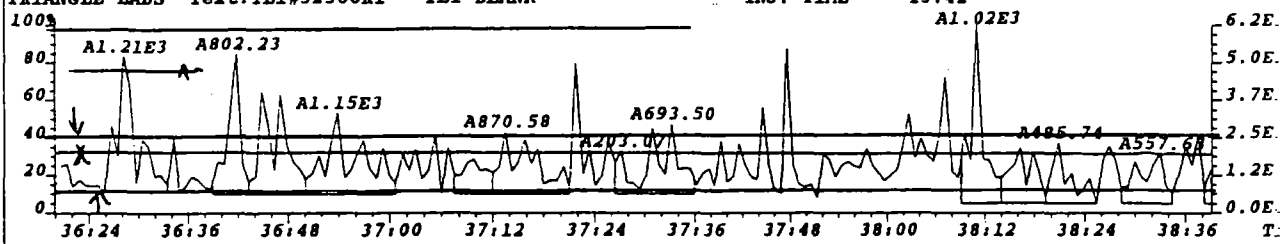

File:T005998 #1-485 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:53
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A801.74
A1.39E3
A505.21
A1.22E3
A978.05
A1.01E3
A630.89
A1.70E3
33:00
34:00
35:00
File:T005998 #1-485 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:37
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A695.97
A1.00E3
A1.05E3
A210.09
A885.56
A494.76
A1.05E3
33:00
34:00
35:00
File:T005998 #1-485 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:48
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,192.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A1.25E6
A1.23E6
A1.18E6
33:00
34:00
35:00
File:T005998 #1-485 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:66
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,264.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A2.51E6
A2.43E6
A2.33E6
33:00
34:00
35:00
File:T005998 #1-485 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
32:26
32:40
32:54
33:16
33:30
33:45
34:28
34:40
34:53
35:09
33:00
34:00
35:00
File:T005998 #1-485 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
32:21
32:44
32:53
33:08
33:20
33:35
33:49
34:02
34:14
34:30
34:39
34:58
33:00
34:00
35:00


File:T005998 #1-485 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:41
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,164.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A1.48E3
A448.16
A379.66
A411.16
A1.94E3
A566.36
A177.22
A497.57
A1.18E3
A2.06E3
File:T005998 #1-485 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:44
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,176.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A443.70
A262.92
A720.83
A320.68
A516.30
A1.11E3
A302.38
File:T005998 #1-485 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:65
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A1.38E6
A2.40E6
File:T005998 #1-485 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:69
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A1.13E6
A1.97E6
File:T005998 #1-485 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
32:54
33:11 33:19
33:30
33:45 33:54
34:20
34:28
34:40
34:53
32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48
Time

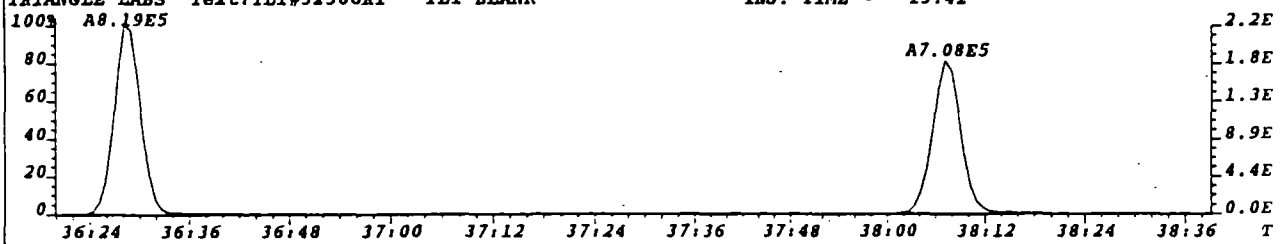
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:48
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,192.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42



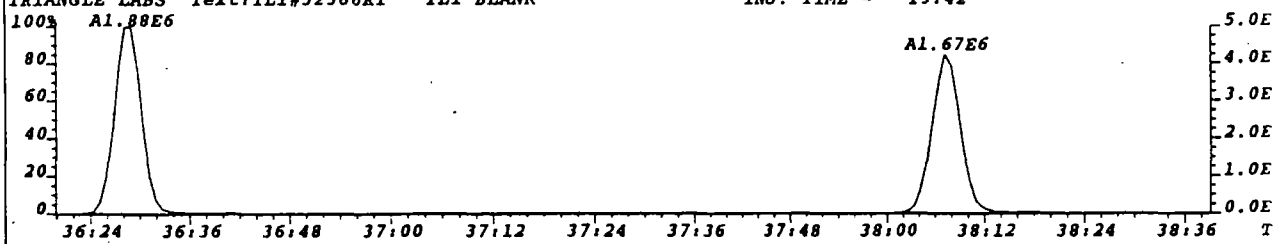
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:44
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,176.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42



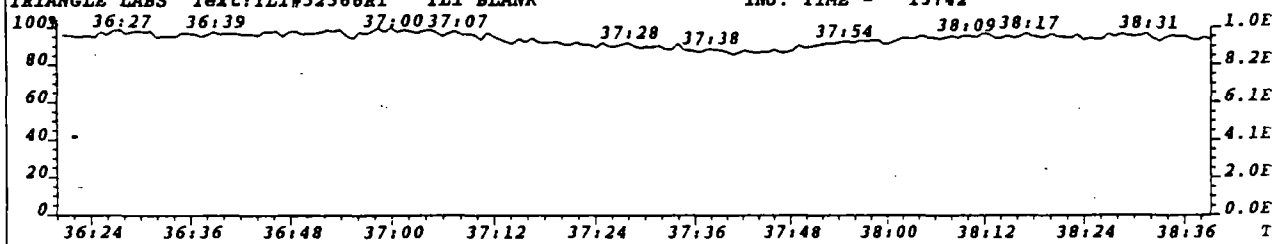
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:53
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42



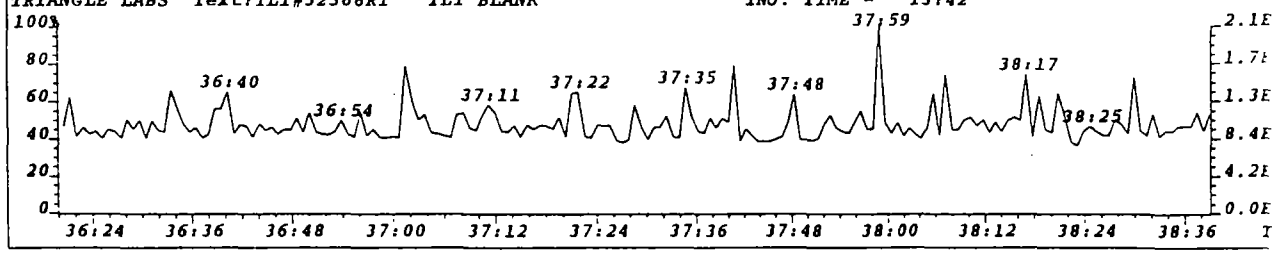
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:53
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42

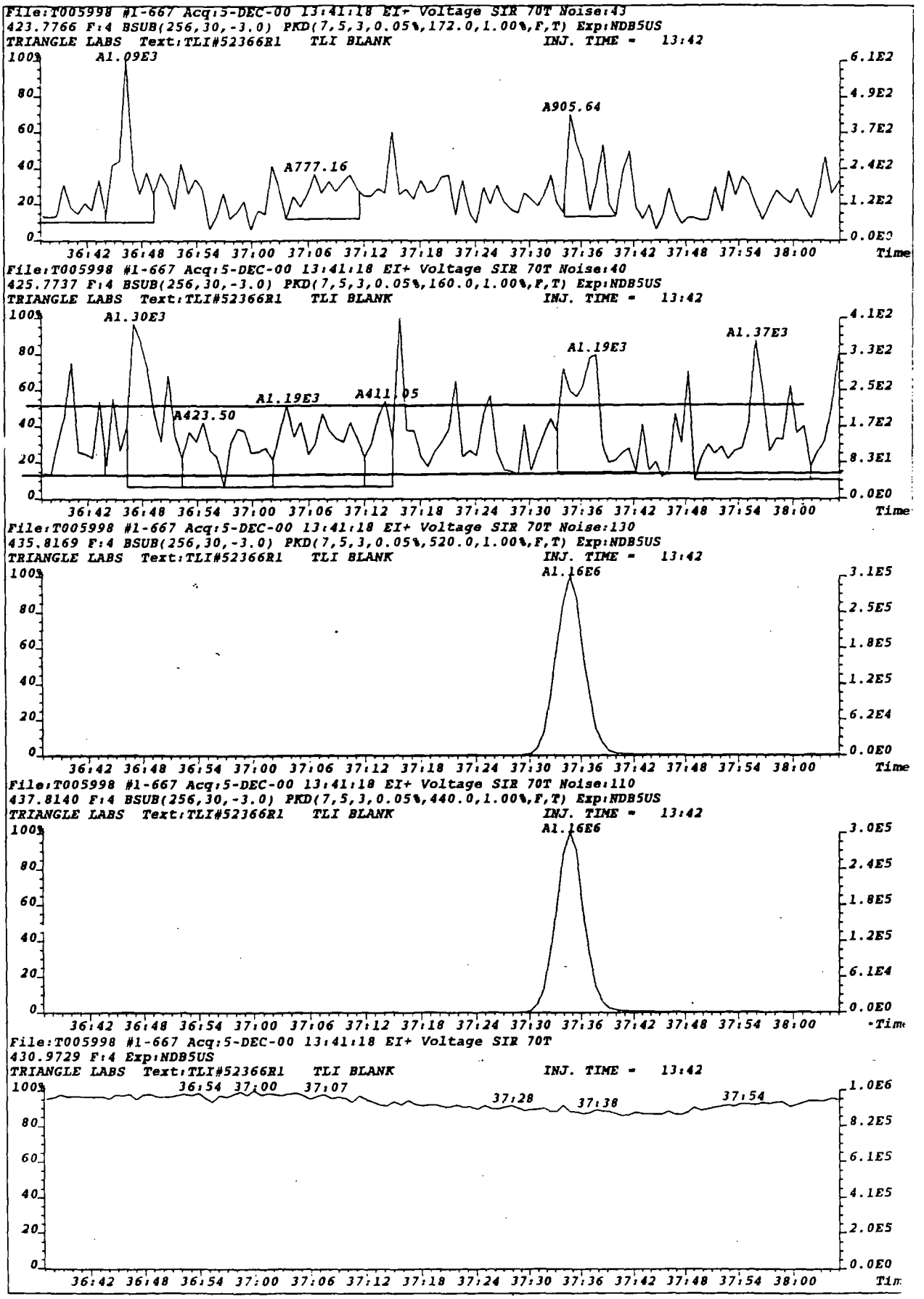


File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42

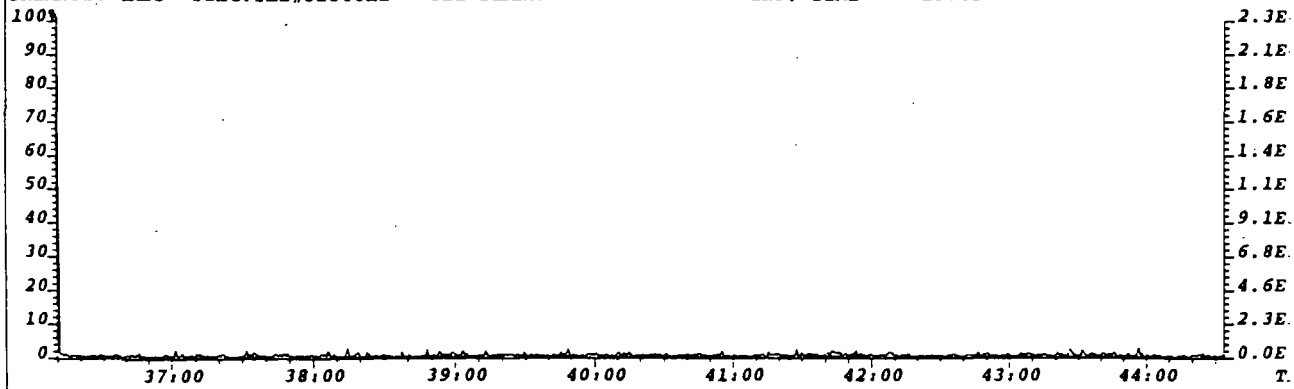


File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42

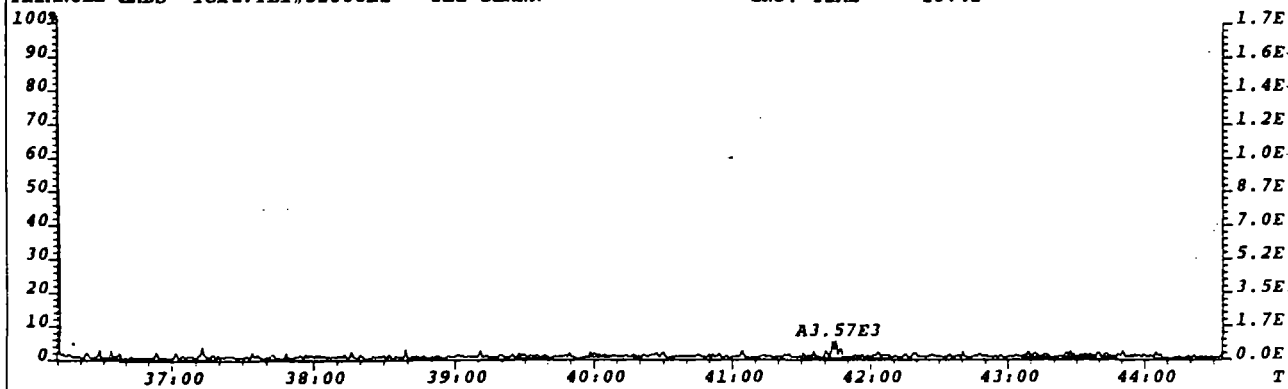



File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:43
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A1.09E3
A905.64
A777.16
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00
Time
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:40
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A1.30E3
A1.37E3
A1.19E3
A1.19E3
A411.05
A423.50
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00
Time
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:130
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,520.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A1.16E6
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00
Time
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:110
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,440.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
A1.16E6
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42
36:54 37:00 37:07
37:28
37:38
37:54
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00

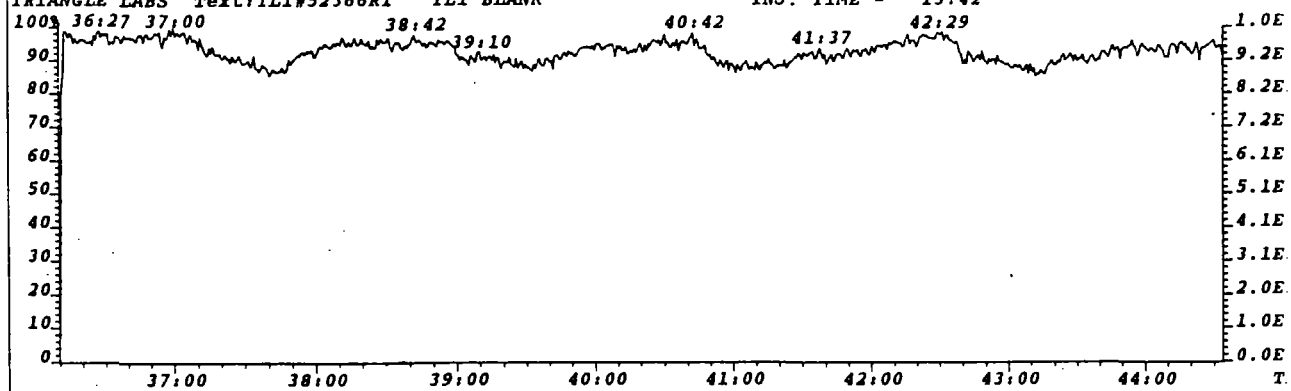
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:42
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,168.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42



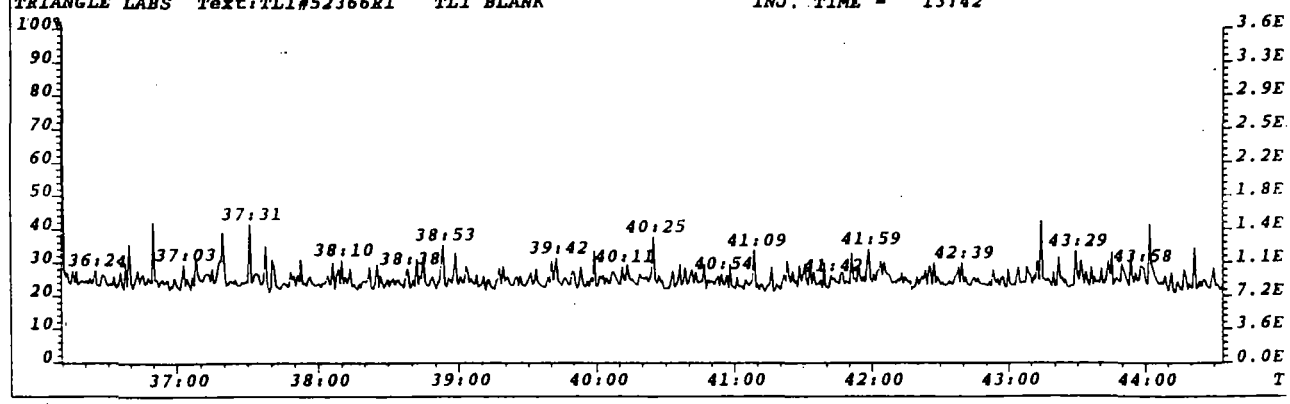
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:43
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42



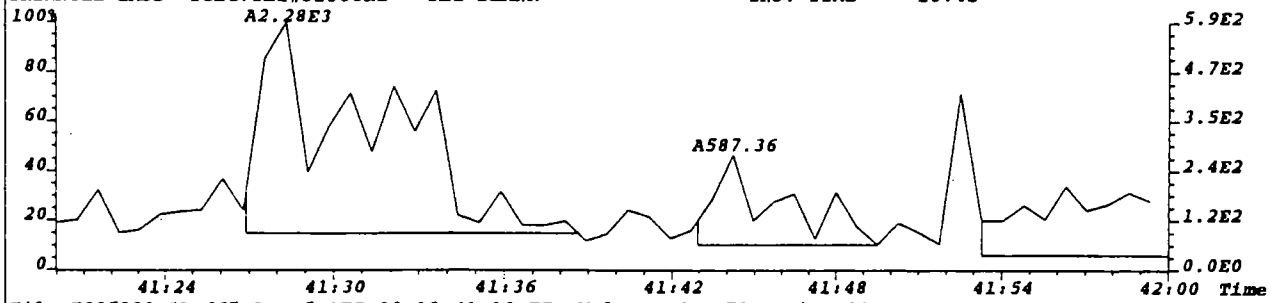
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42



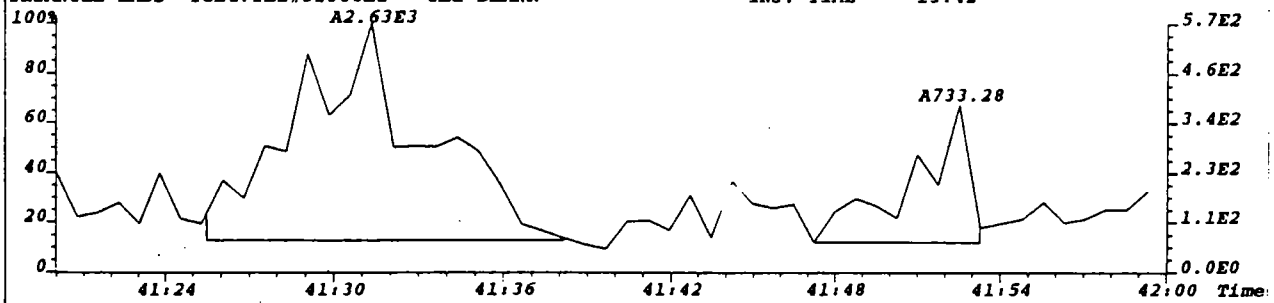
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42



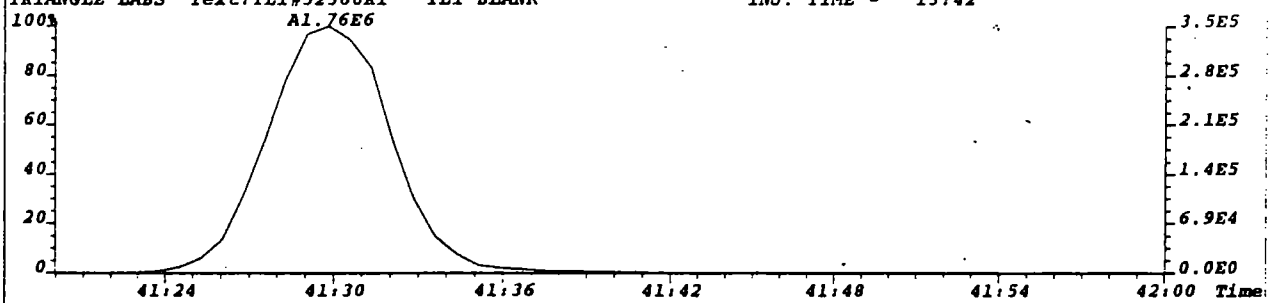
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:39
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42



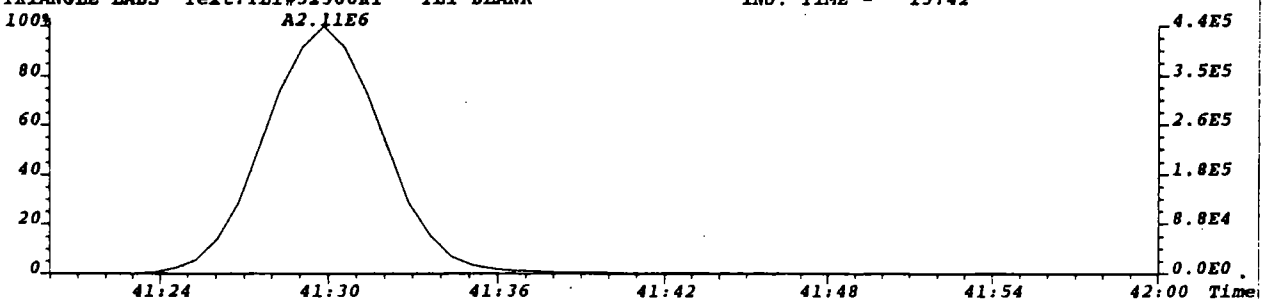
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:38
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,152.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42



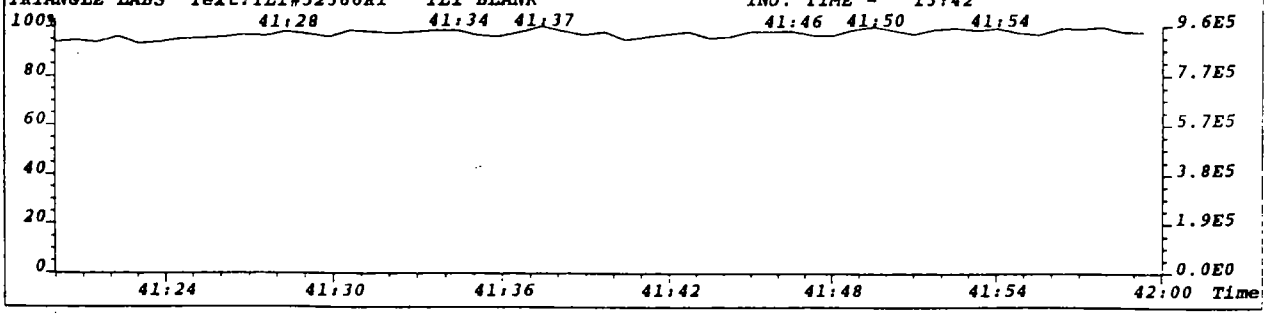
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:38
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,152.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42

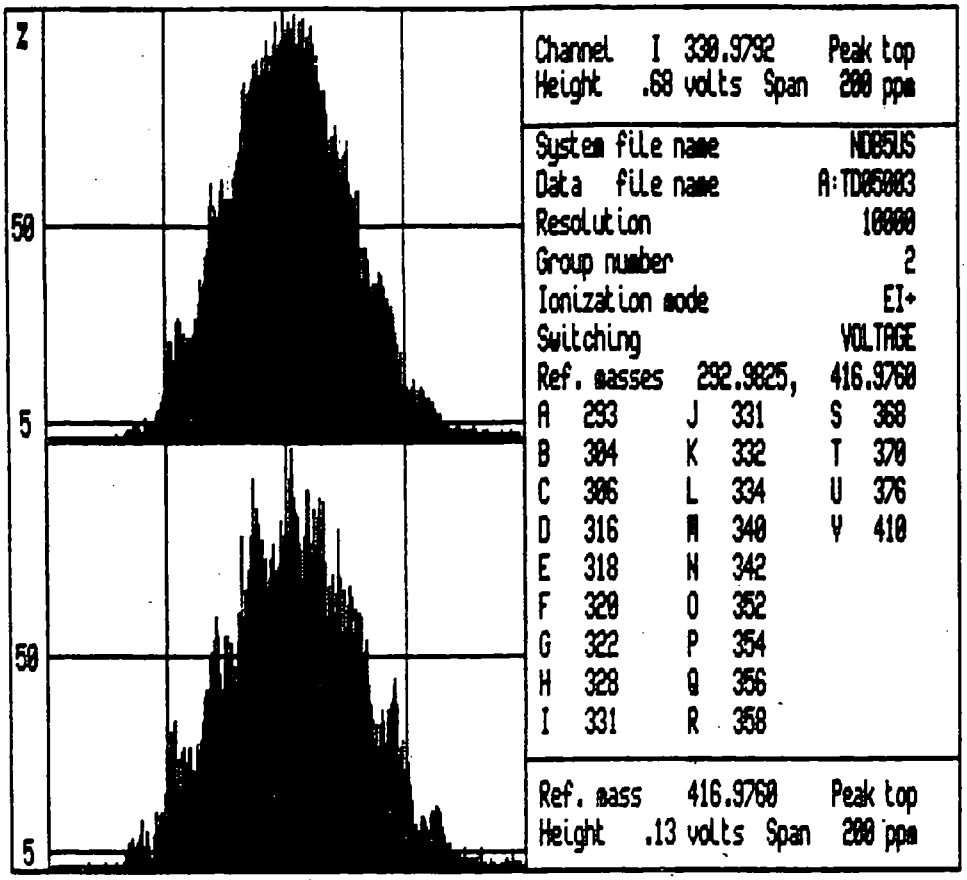


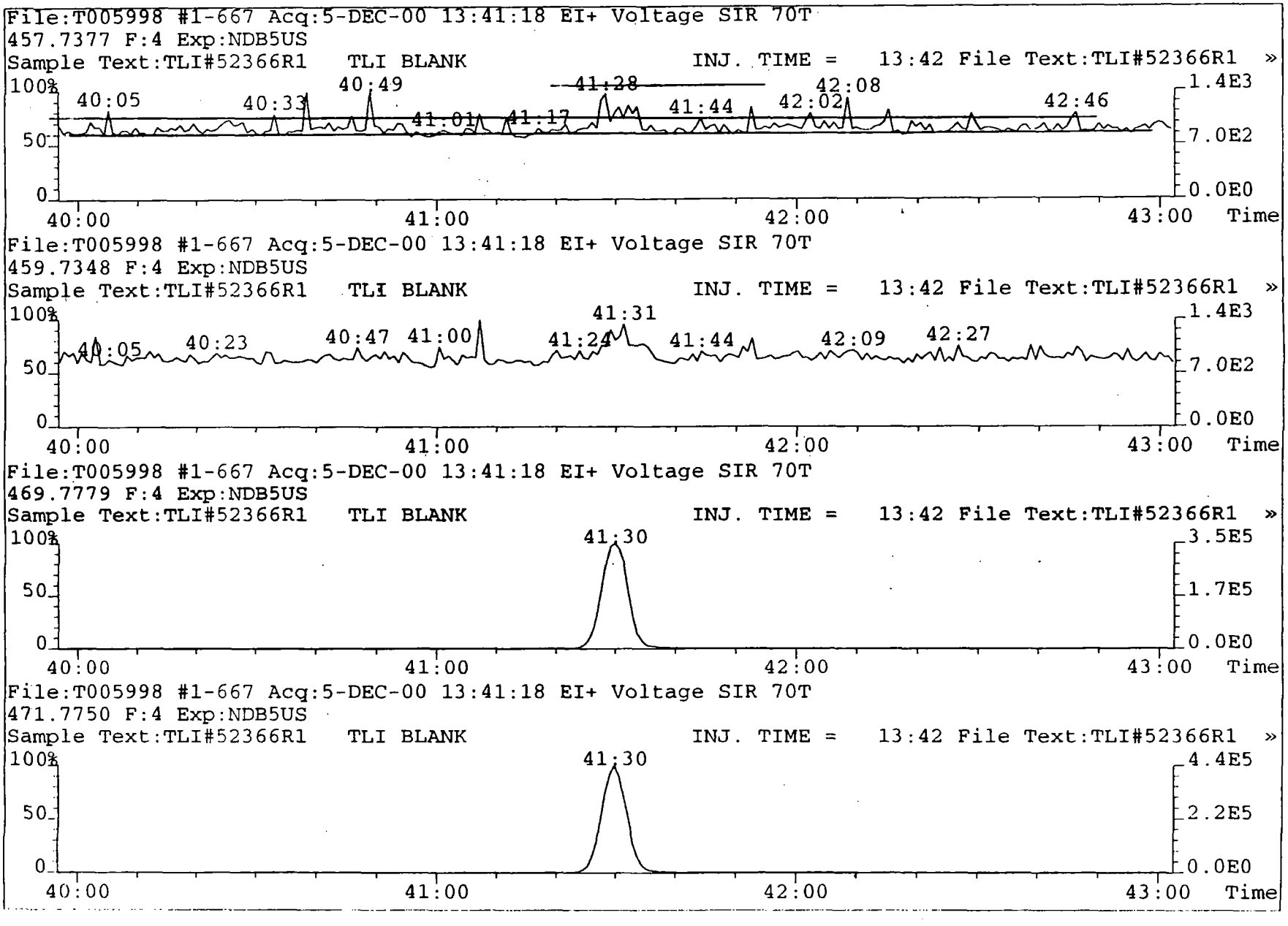
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T Noise:34
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,136.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42



File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42




Z
50
5
50
5
Channel I 330.9792 Peak top
Height .68 volts Span 200 ppm
System file name MD85US
Data file name A:TD050003
Resolution 10000
Group number 2
Ionization mode EI+
Switching VOLTAGE
Ref. masses 292.9825, 416.9760
A 293 J 331 S 368
B 304 K 332 T 370
C 306 L 334 U 376
D 316 M 340 V 410
E 318 N 342
F 320 O 352
G 322 P 354
H 328 Q 356
I 331 R 358
Ref. mass 416.9760 Peak top
Height .13 volts Span 200 ppm


File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
457.7377 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42 File Text:TLI#52366R1
100%
50
0
40:05
40:33
40:49
41:01
41:17
41:28
41:44
42:02
42:08
42:46
1.4E3
7.0E2
0.0E0
40:00
41:00
42:00
43:00
Time
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
459.7348 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42 File Text:TLI#52366R1
100%
50
0
40:05
40:23
40:47
41:00
41:24
41:31
41:44
42:09
42:27
1.4E3
7.0E2
0.0E0
40:00
41:00
42:00
43:00
Time
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
469.7779 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42 File Text:TLI#52366R1
100%
50
0
41:30
3.5E5
1.7E5
0.0E0
40:00
41:00
42:00
43:00
Time
File:T005998 #1-667 Acq:5-DEC-00 13:41:18 EI+ Voltage SIR 70T
471.7750 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 TLI BLANK INJ. TIME = 13:42 File Text:TLI#52366R1
100%
50
0
41:30
4.4E5
2.2E5
0.0E0
40:00
41:00
42:00
43:00
Time

TriMatrix, Inc.

TLI Project: **52366r1** Method 8290 PCDD/PCDF Analysi
Client Sample: **BASF-SMW-5** Analysis File: **T00**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/2000**	Spike File:	**SPMIT3**
TLI ID:	**274-99-1B**	Date Extracted:	**12/01/2000**	ICal:	**TF57140**
		Date Analyzed:	**12/05/2000**	ConCal:	**T005996**
Sample Size:	**1.080 L**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005998**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**BWL**	% Solids:	**n/a**

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	F
2,3,7,8-TCDD	71.6			0.70	26:50	
1,2,3,7,8-PeCDD	115			1.41	30:57	
1,2,3,4,7,8-HxCDD	109			1.21	34:04	
1,2,3,6,7,8-HxCDD	1270			1.23	34:10	
1,2,3,7,8,9-HxCDD	561			1.25	34:30	
1,2,3,4,6,7,8-HpCDD	15640			1.01	37:35	
1,2,3,4,6,7,8,9-OCDD	123200			0.85	41:31	
2,3,7,8-TCDF	443			0.83	26:08	
1,2,3,7,8-PeCDF	304			1.48	29:56	
2,3,4,7,8-PeCDF	187			1.40	30:37	
1,2,3,4,7,8-HxCDF	416			1.36	33:21	
1,2,3,6,7,8-HxCDF	127			1.33	33:27	
2,3,4,6,7,8-HxCDF	115			1.18	33:57	
1,2,3,7,8,9-HxCDF	95.4			1.41	34:46	
1,2,3,4,6,7,8-HpCDF	410			1.14	36:29	
1,2,3,4,7,8,9-HpCDF	EMPC		84.1			
1,2,3,4,6,7,8,9-OCDF	529			0.88	41:44	

Totals	Conc. (pg/L)	Number	DL	EMPC	F
Total TCDD	1800	3		1910	
Total PeCDD	313	2		594	
Total HxCDD	10540	6			
Total HpCDD	29530	2			
Total TCDF	1220	8		3670	
Total PeCDF	932	5		2020	
Total HxCDF	1530	8		1840	
Total HpCDF	916	3		1000	

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TLI Project: 52366r1 Method 8290 PCDD/PCDF Analys
Client Sample: BASF-SMW-5 Analysis File: T0C

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	F
$^{13}C_{12}$-2,3,7,8-TCDF	129	6.98	40%-130%	0.77	26:08	\
$^{13}C_{12}$-2,3,7,8-TCDD	110	5.96	40%-130%	0.81	26:48	\
$^{13}C_{12}$-1,2,3,7,8-PeCDF	70.2	3.79	40%-130%	1.47	29:56	\
$^{13}C_{12}$-1,2,3,7,8-PeCDD	93.2	5.03	40%-130%	1.54	30:56	\
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	48.8	2.63	40%-130%	0.48	33:26	\
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	55.6	3.00	40%-130%	1.25	34:09	\
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	50.8	2.75	25%-130%	0.46	36:29	\
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	70.6	3.81	25%-130%	1.04	37:35	\
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	82.8	2.24	25%-130%	0.78	41:30	\

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	F
$^{13}C_{12}$-2,3,4,7,8-PeCDF	80.9	4.37	40%-130%	1.54	30:36	\
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	56.4	3.05	40%-130%	0.51	33:20	\
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	52.0	2.81	40%-130%	1.22	34:03	\
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	49.1	2.65	25%-130%	0.43	38:07	\

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	F
$^{37}Cl_4$-2,3,7,8-TCDD	157	84.6	40%-130%	26:49	

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	F
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	65.4	3.53	40%-130%	0.51	34:46	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	58.1	3.14	40%-130%	0.51	33:57	

Recovery Standards	Ratio	RT	F
$^{13}C_{12}$-1,2,3,4-TCDD	0.81	26:38	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.21	34:29	

Data Reviewer: _____ 12/13/2000

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TriMatrix, Inc.

TLI Project: **52366r1** Toxicity Equivalents Re
Client Sample: **BASF-SMW-5** Analysis File: **T005**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/00**	Spike File:	**SPMIT32**
TLI ID:	**274-99-1B**	Date Extracted:	**12/01/00**	ICal:	**TF57140**
		Date Analyzed:	**12/05/00**	ConCal:	**T005996**
Sample Size:	**1.080 L**	Dilution Factor:	**1**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005998**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**BWL**	% Solids:	**n/a**

Analytes	Conc. (pg/L)		TEF		Equivalent
2,3,7,8-TCDD	71.6	x	1.	=	71.6
1,2,3,7,8-PeCDD	115	x	0.5	=	57.5
1,2,3,4,7,8-HxCDD	109	x	0.1	=	10.9
1,2,3,6,7,8-HxCDD	1270	x	0.1	=	127.0
1,2,3,7,8,9-HxCDD	561	x	0.1	=	56.1
1,2,3,4,6,7,8-HpCDD	15640	x	0.01	=	156.40
1,2,3,4,6,7,8,9-OCDD	123200	x	0.001	=	123.200
TOTAL PCDD					602.7
2,3,7,8-TCDF	327	x	0.1	=	32.7
1,2,3,7,8-PeCDF	304	x	0.05	=	15.2
2,3,4,7,8-PeCDF	187	x	0.5	=	93.5
1,2,3,4,7,8-HxCDF	416	x	0.1	=	41.6
1,2,3,6,7,8-HxCDF	127	x	0.1	=	12.7
2,3,4,6,7,8-HxCDF	115	x	0.1	=	11.5
1,2,3,7,8,9-HxCDF	95.4	x	0.1	=	9.54
1,2,3,4,6,7,8-HpCDF	410	x	0.01	=	4.10
1,2,3,4,7,8,9-HpCDF	[84.1]	x	0.01	=	0.841
1,2,3,4,6,7,8,9-OCDF	529	x	0.001	=	0.529
TOTAL PCDF					222.2

Total EPA TEFs, 1989a: 824.9 pg/L

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

GRY_TEF v1.08.MI

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Initial ....Date...

Data Review By: JCA 12/13/00

Calculated Noise Height: 0.09

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 T005999B.dbf
12/13/2000 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				0.380-1.070			
304-306		DC	NL				Height	0.12	0.06	0.06				
					23:34		0.32	7.66	3.45	4.21	0.902			
					23:50	RO	0.96	4.05	1.76	1.84	0.912			
					24:13		0.74	6.41	2.73	3.68	0.927			
					24:32		0.84	6.82	3.12	3.70	0.939			
					24:54	RO	0.93	7.24	3.15	3.37	0.953			
					25:09	RO	0.94	3.86	2.04	2.18	0.962			
					25:28		0.82	8.52	3.85	4.67	0.974			
	X		X		25:46	RO	0.80	25.45	11.[illegible]	14.17	0.986	1273-TCDF		AN
	A				25:58		0.79	1.52	0.67	0.85	0.994			
					26:08		0.83	21.54	9.80	11.74	1.000	2378-TCDF		AN
					26:33		0.84	3.92	1.79	2.13	1.016			
					26:46		0.79	2.87	1.27	1.60	1.024			
	X		X		26:55	RO	0.81	11.33	5.08	6.25	1.030			
	AX		X		27:10	RO	0.81	31.30	14.00	17.30	1.040			
	X		X		27:29	RO	0.82	31.84	14.39	17.45	1.052			
	M				27:49	RO	1.32	5.03	3.74	2.84	1.064			
		DC	WH		28:05		0.87	15.42			1.075			
304-306				16	Peaks			179.36						
13C12-TCDF							0.65-0.89				0.962-1.038			
316-318		DC	NL				Height	0.18	0.10	0.08				
					26:08		0.77	88.07	38.34	49.73	1.000	13C12-2378-TCDF		ISO
							Height	24.47	10.33	14.14				
					26:38	RO	1.11	1.61	1.01	0.91	1.019			
316-318				2	Peaks			89.68						
---------- Above: TCDF / TCDD Follows ----------														
TCDD							0.65-0.89				0.904-1.042			
320-322		DC	NL				Height	0.08	0.04	0.04				
					24:24		0.71	36.06	15.03	21.03	0.910	1368-TCDD		AN
					24:46		0.73	15.21	6.40	8.81	0.924	1379-TCDD		AN
		DC	SN		25:13	RO	0.10	0.16			0.941			
		DC	SN		25:19	RO	2.00	0.09			0.945			
		DC	SN		25:25	RO	1.22	0.16			0.948			
					25:42	RO	0.47	3.33	1.45	3.07	0.959			
	D	D	SN		25:53		0.82	0.69			0.966			
	D	D	SN		26:01	RO	0.55	0.51			0.971			
	D	D	SN		26:18	RO	0.44	0.32			0.981			
	D	D	SN		26:38		0.81	1.61			0.994			
					26:50		0.70	2.18	0.90	1.28	1.001	2378-TCDD		AN
	D	D	SN		27:08		0.87	0.86			1.012			

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
	D	D	SN		27:21	RO	1.45	0.19			1.021			
		DC	SN		27:29	RO	0.44	0.18			1.025			
		DC	SN		27:34	RO	2.50	0.07			1.029			
		DC	WH		28:17	RO	1.75	0.14			1.055			
320-322			4	Peaks				56.78						
37Cl-TCDD											0.925-1.075			
328		DC	NL			Height		0.05	0.05					
		DC	WL		24:21			0.37			0.909			
		DC	WL		24:40			1.78			0.920			
		DC	WL		24:47			2.38			0.925			
					25:05			1.93	1.93		0.936			
					25:31			236.37	236.37		0.952			
					25:39			0.58	0.58		0.957			
					26:49			74.07	74.07		1.001	37Cl-TCDD	CLS	
					27:11			5.63	5.63		1.014			
					28:06			1.68	1.68		1.049			
328			6	Peaks				320.76						
13C12-TCDD							0.65-0.89				0.925-1.075			
332-334		DC	NL			Height		0.19	0.13	0.06				
					26:38		0.81	983.57	439.15	544.42	0.994	13C12-1234-TCDD	RS1	
					26:48		0.81	61.67	27.63	34.04	1.000	13C12-2378-TCDD	IS1	
						Height		17.16	7.72	9.44				
332-334			2	Peaks				1,045.24						

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

PeCDF							1.32-1.78				0.930-1.060			
340-342		DC	NL			Height		0.10	0.04	0.06				
					28:02		1.46	2.81	1.67	1.14	0.937			
					29:07	RO	1.26	7.17	4.36	3.46	0.973			
					29:17	RO	1.03	0.56	0.34	0.33	0.978			J
	D	D	SN		29:35		1.74	1.04			0.988			
					29:41	RO	1.26	0.97	0.59	0.47	0.992			J
	A				29:52	RO	1.28	0.82	0.50	0.39	0.998			J
	AN				29:56		1.48	6.70	4.00	2.70	1.000	12378-PeCDF	AN	
	NXH		X		30:00	RO	1.44	8.58	5.07	3.51	1.002			
	A				30:07	RO	1.10	0.36	0.22	0.20	1.006			J
					30:14		1.53	3.99	2.41	1.58	1.010			
					30:37		1.40	4.18	2.44	1.74	1.023	23478-PeCDF	AN	
					30:50		1.32	2.95	1.68	1.27	1.030			
					31:13	RO	3.78	0.46	0.68	0.18	1.043			J
	X		X		31:20	RO	1.53	5.14	3.11	2.03	1.047			
340-342			13	Peaks				44.69						
13C12-PeCDF							1.32-1.78				0.866-1.134			
352-354		DC	NL			Height		0.12	0.06	0.06				
					27:48	RO	0.65	1.15	0.70	1.07	0.929			
					28:13	RO	0.89	1.04	0.63	0.71	0.943			
					28:35	RO	0.52	0.28	0.17	0.33	0.955			
		DC	SN		28:42	RO	1.30	0.26			0.959			

Compound/ M_Z....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flag
				28:50	RO	2.00	0.28	0.22	0.11	0.963			
				29:06	RO	0.32	0.59	0.36	0.44	0.972			
				29:56		1.47	44.70	26.58	18.12	1.000	13C12-PeCDF 123	IS2	
						Height	14.85	8.96	5.89				
				30:36		1.54	51.03	30.93	20.10	1.022	13C12-PeCDF 234	SUR1	
				30:58	RO	20.86	0.18	1.46	0.07	1.035			
				31:35	RO	1.83	0.74	0.53	0.29	1.055			
	DC	SN		31:48	RO	0.40	0.07			1.062			
352-354			9 Peaks				99.99						
---------- Above: PeCDF / PeCDD Follows ----------													
PeCDD						1.32-1.78				0.938-1.020			
356-358	DC	NL				Height	0.09	0.05	0.04				
D	D	WL		29:01	RO	1.05	0.35			0.938			
				29:12	RO	0.44	3.75	2.28	5.17	0.944			
D	D	SN		29:40	RO	1.03	0.58			0.959			
				29:54	RO	1.20	1.65	1.00	0.83	0.967			
				30:02		1.66	3.81	2.38	1.43	0.971			
D	D	SN		30:13	RO	1.92	0.97			0.977			
D	D	SN		30:28	RO	1.92	0.66			0.985			
D	D	SN		30:39	RO	0.85	0.56			0.991			
D	D	SN		30:47	RO	0.69	0.18			0.995			
				30:57		1.41	2.22	1.30	0.92	1.001	12378-PeCDD	AN	
	DC	SN		31:13	RO	1.29	0.18			1.009			
	DC	WH		31:47	RO	0.82	0.61			1.027			
356-358			4 Peaks				11.43						
13C12-PeCDD						1.32-1.78				0.871-1.129			
368-370	DC	NL				Height	0.09	0.05	0.04				
				29:54	RO	0.78	0.23	0.14	0.18	0.967			
	DC	SN		30:01	RO	4.33	0.08			0.970			
				30:56		1.54	33.77	20.50	13.27	1.000	13C12-PeCDD 123	IS3	
						Height	11.56	6.98	4.58				
368-370			2 Peaks				34.00						
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF						1.05-1.43				0.963-1.047			
374-376	DC	NL				Height	0.14	0.07	0.07				
				32:23		1.33	0.63	0.36	0.27	0.969			J
				32:30		1.23	4.19	2.31	1.88	0.972			
				32:57		1.27	6.82	3.82	3.00	0.986			
				33:13	RO	0.96	0.42	0.23	0.24	0.994			J
				33:21		1.36	6.92	3.99	2.93	0.998	123478-HxCDF	AN	
				33:27		1.33	2.21	1.26	0.95	1.000	123678-HxCDF	AN	
X		X		33:37	RO	1.23	4.51	2.49	2.02	1.005			
D	D	SN		33:45	RO	1.55	0.25			1.009			
				33:57		1.18	1.81	0.98	0.83	1.015	234678-HxCDF	AN	
				34:46		1.41	1.23	0.72	0.51	1.040	123789-HxCDF	AN	
				34:52		1.29	0.48	0.27	0.21	1.043			J
	DC	WH		35:18		1.20	0.66			1.056			

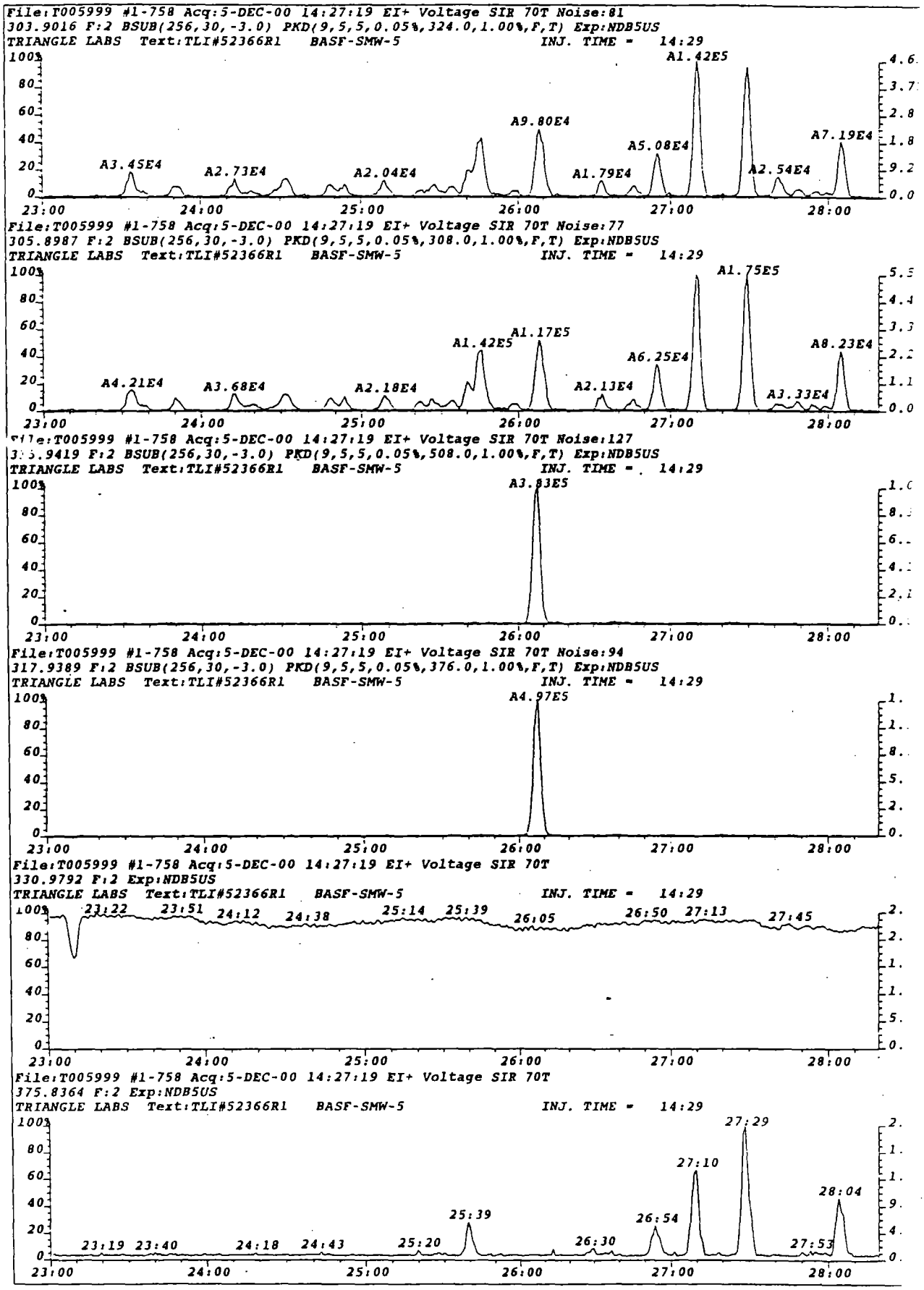
Compound/ M_Z....	QC.Log	Omit	Why	RT.	OK	Ratio	Total Area/Ht	Area/Ht. Peak1	Area/Ht. Peak2	Rel.RT	Compound.Name..	ID..	Flag
374-376			10 Peaks				29.22						
13C12-HxCDF						0.43-0.59				0.880-1.120			
384-386	DC	NL				Height	0.11	0.05	0.06				
				32:27		0.43	0.20	0.06	0.14	0.971			
	DC	SN		32:45	RO	0.92	0.33			0.980			
				32:57	RO	1.18	0.17	0.13	0.11	0.986			
				33:20		0.51	34.23	11.54	22.69	0.997	13C12-HxCDF 478	SUR2	
				33:26		0.48	30.02	9.78	20.24	1.000	13C12-HxCDF 678	IS4	
						Height	9.53	3.08	6.45				
	DC	SN		33:37	RO	0.75	0.09			1.005			
	DC	SN		33:38	RO	0.17	0.03			1.006			
				33:57		0.51	32.65	11.03	21.62	1.015	13C12-HxCDF 234	ALT2	
				34:03	RO	1.00	0.20	0.13	0.13	1.018			
	DC	SN		34:10		0.50	0.15			1.022			
				34:28	RO	1.24	0.57	0.47	0.38	1.031			
				34:32	RO	1.33	0.14	0.12	0.09	1.033			
				34:46		0.51	26.97	9.05	17.92	1.040	13C12-HxCDF 789	ALT1	
	DC	SN		34:56	RO	0.20	0.06			1.045			
384-386			9 Peaks				125.15						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD						1.05-1.43				0.957-1.013			
390-392	DC	NL				Height	0.10	0.05	0.05				
				32:51		1.23	22.46	12.38	10.08	0.962			
				33:18		1.27	3.75	2.10	1.65	0.975			
				33:31		1.25	75.34	41.84	33.50	0.981			
	D	D	SN	33:41	RO	2.20	0.22			0.986			
	DC	SN		33:57	RO	0.53	0.16			0.994			
				34:04		1.21	1.28	0.70	0.58	0.998	123478-HxCDD		AN
				34:10		1.23	14.87	8.19	6.68	1.000	123678-HxCDD		AN
				34:30		1.25	6.66	3.70	2.96	1.010	123789-HxCDD		AN
	DC	WH		34:40	RO	0.17	0.11			1.015			
	DC	WH		34:49	RO	2.50	0.09			1.020			
	DC	WH		34:57	RO	0.39	0.45			1.023			
390-392			6 Peaks				124.36						
13C12-HxCDD						1.05-1.43				0.971-1.029			
402-404	DC	NL				Height	0.12	0.05	0.07				
				34:03		1.22	20.72	11.40	9.32	0.997	13C12-HxCDD 478		SUR3
				34:09		1.25	21.42	11.89	9.53	1.000	13C12-HxCDD 678		IS5
						Height	6.87	3.78	3.09				
				34:29		1.21	785.22	429.31	355.91	1.010	13C12-HxCDD 789		RS2
402-404			3 Peaks				827.36						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF						0.38-1.20				0.995-1.050			
408-410	DC	NL				Height	0.11	0.06	0.05				
	M			36:29		1.14	5.81	3.10	2.71	1.000	1234678-HpCDF		AN
				36:46		1.10	0.65	0.34	0.31	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
				36:56		1.11	5.70	3.00	2.70	1.012			
M				38:08	RO	1.33	0.92	0.60	0.45	1.045	1234789-HpCDF	AN	
	DC	WH		38:25	RO	1.27	0.67			1.053			
408-410		4	Peaks				13.08						
13C12-HpCDF						0.37-0.51				0.945-1.110			
418-420	DC	NL				Height	0.06	0.03	0.03				
				36:29		0.46	20.91	6.58	14.33	1.000	13C12-HpCDF 678	IS6	
						Height	6.04	1.84	4.20				
	DC	SN		36:48	RO	2.50	0.03			1.009			
	DC	SN		36:52		0.38	0.18			1.011			
	DC	SN		37:40	RO	1.67	0.04			1.032			
				38:07		0.43	15.72	4.72	11.00	1.045	13C12-HpCDF 789	SUR4	
418-420		2	Peaks				36.63						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD						0.38-1.20				0.974-1.004			
424-426	DC	NL				Height	0.28	0.15	0.13				
				36:47		1.03	164.65	83.36	81.29	0.979			
				37:35		1.01	185.49	93.21	92.28	1.000	1234678-HpCDD	AN	
	DC	WH		38:03		1.13	1.62			1.012			
424-426		2	Peaks				350.14						
13C12-HpCDD						0.38-1.20				0.973-1.027			
436-438	DC	NL				Height	0.10	0.05	0.05				
	DC	SN		37:04		1.14	0.15			0.986			
	DC	SN		37:14	RO	12.00	0.02			0.991			
				37:35		1.04	25.68	13.09	12.59	1.000	13C12-HpCDD 678	IS7	
						Height	6.99	3.69	3.30				
436-438		1	Peak				25.68						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF						0.76-1.02				0.904-1.096			
442-444	DC	NL				Height	0.08	0.04	0.04				
	DC	SN		38:41	RO	0.71	0.11			0.932			
	DC	SN		38:50	RO	0.63	0.21			0.936			
	DC	SN		39:02	RO	2.00	0.11			0.941			
	DC	SN		39:22	RO	0.29	0.13			0.949			
	DC	SN		40:13	RO	0.63	0.11			0.969			
	DC	SN		40:25	RO	3.00	0.11			0.974			
	DC	SN		40:38	RO	2.67	0.11			0.979			
				41:31		0.89	0.89	0.42	0.47	1.000			
				41:44		0.88	3.85	1.80	2.05	1.006	OCDF	AN	
	DC	SN		42:52	RO	0.38	0.06			1.033			
				43:41		0.86	10.14	4.68	5.46	1.053			
	DC	SN		43:54	RO	1.29	0.13			1.058			
	DC	SN		44:06		0.86	0.13			1.063			
	DC	SN		44:16	RO	-0.50	0.06			1.067			
	DC	SN		44:23	RO	1.86	0.13			1.069			
442-444		3	Peaks				14.88						

Compound, M_2....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
OCDD						0.76-1.02				0.904-1.096			
458-460	DC	NL				Height	0.06	0.03	0.03				
				41:31		0.85	745.49	342.84	402.65	1.000	OCDD	AN	E
458-460		1	Peak				745.49						
13C12-OCDD						0.76-1.02				0.996-1.004			
470-472	DC	NL				Height	0.07	0.03	0.04				
				41:30		0.78	24.52	10.72	13.80	1.000	13C12-OCDD	IS8	
						Height	4.91	2.19	2.72				
	DC	WH		42:01	RO	1.14	0.13			1.012			
470-472		1	Peak				24.52						

Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_2 -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 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,324.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A3.45E4
A2.73E4
A2.04E4
A9.80E4
A1.79E4
A5.08E4
A1.42E5
A2.54E4
A7.19E4
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:77
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A4.21E4
A3.68E4
A2.18E4
A1.42E5
A1.17E5
A2.13E4
A6.25E4
A1.75E5
A3.33E4
A8.23E4
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:127
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A3.83E5
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:94
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,376.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A4.97E5
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
23:22
23:51
24:12
24:38
25:14
25:39
26:05
26:50
27:13
27:45
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
23:19
23:40
24:18
24:43
25:20
25:39
26:30
26:54
27:10
27:29
27:53
28:04
23:00
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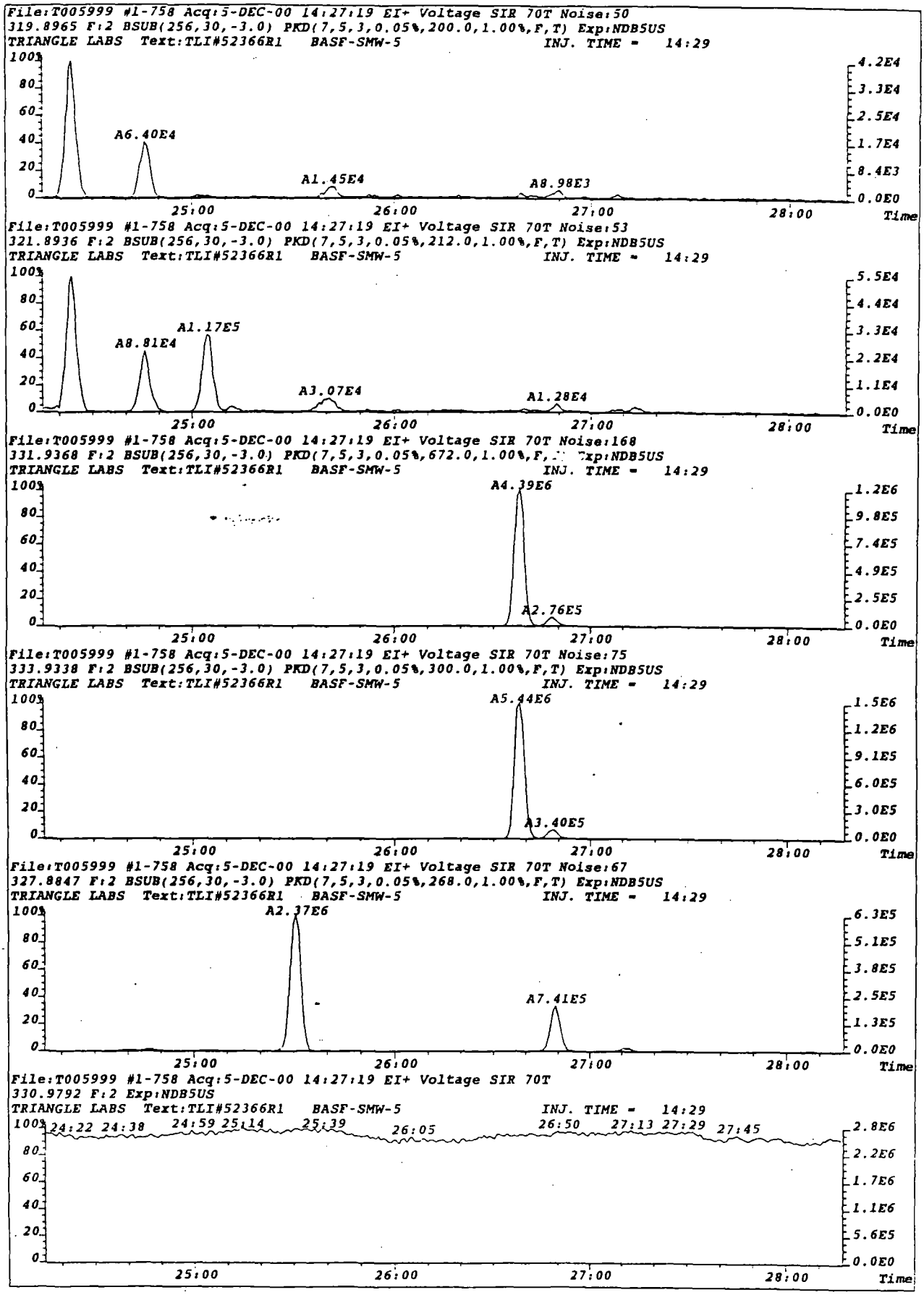
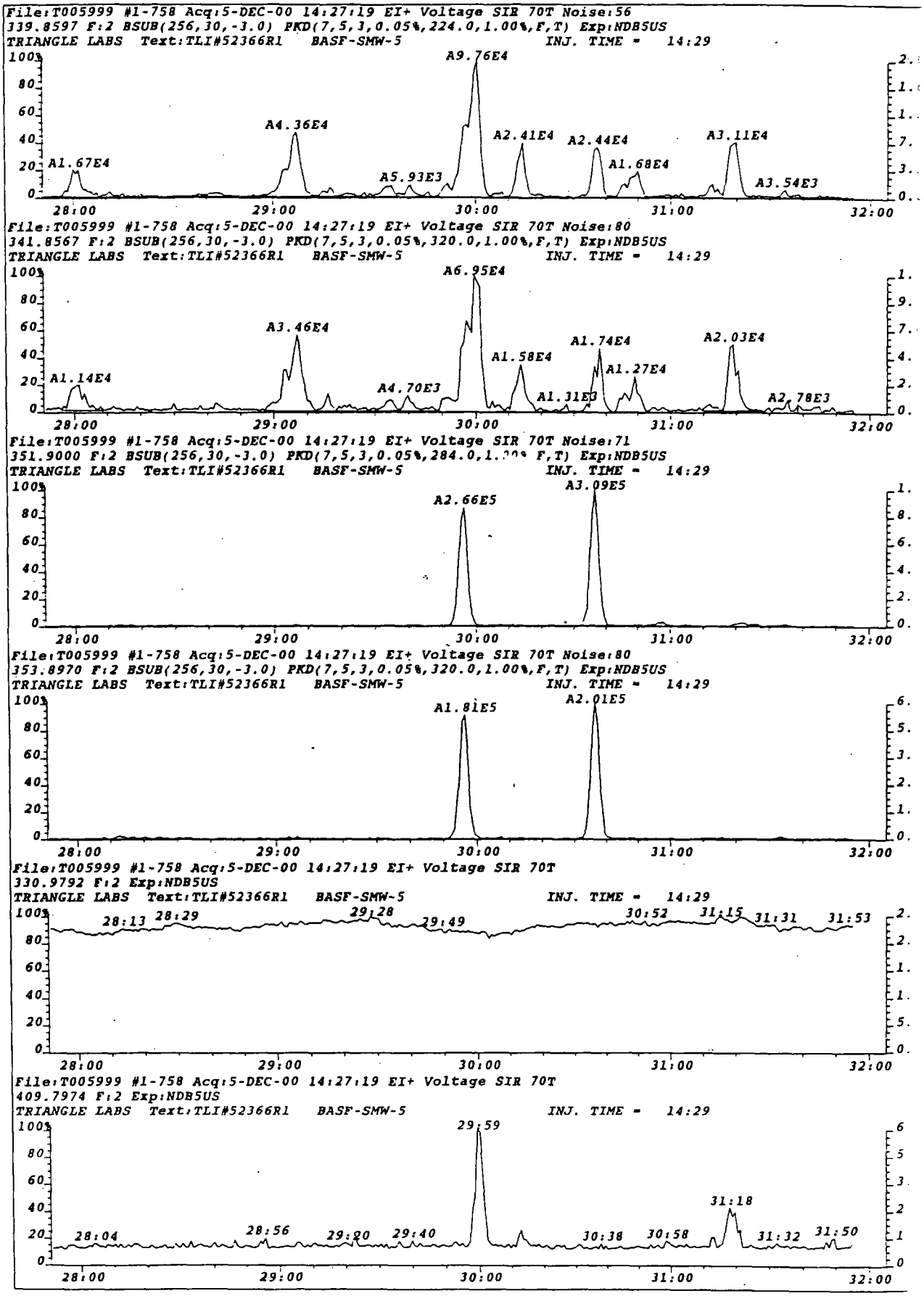
25:00
26:00
27:00
28:00


File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:50
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A6.40E4
A1.45E4
A8.98E3
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:53
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A8.81E4
A1.17E5
A3.07E4
A1.28E4
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:168
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,672.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A4.39E6
A2.76E5
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:75
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,300.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A5.44E6
A3.40E5
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:67
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A2.37E6
A7.41E5
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
24:22 24:38 24:59 25:14 25:39 26:05 26:50 27:13 27:29 27:45
25:00 26:00 27:00 28:00 Time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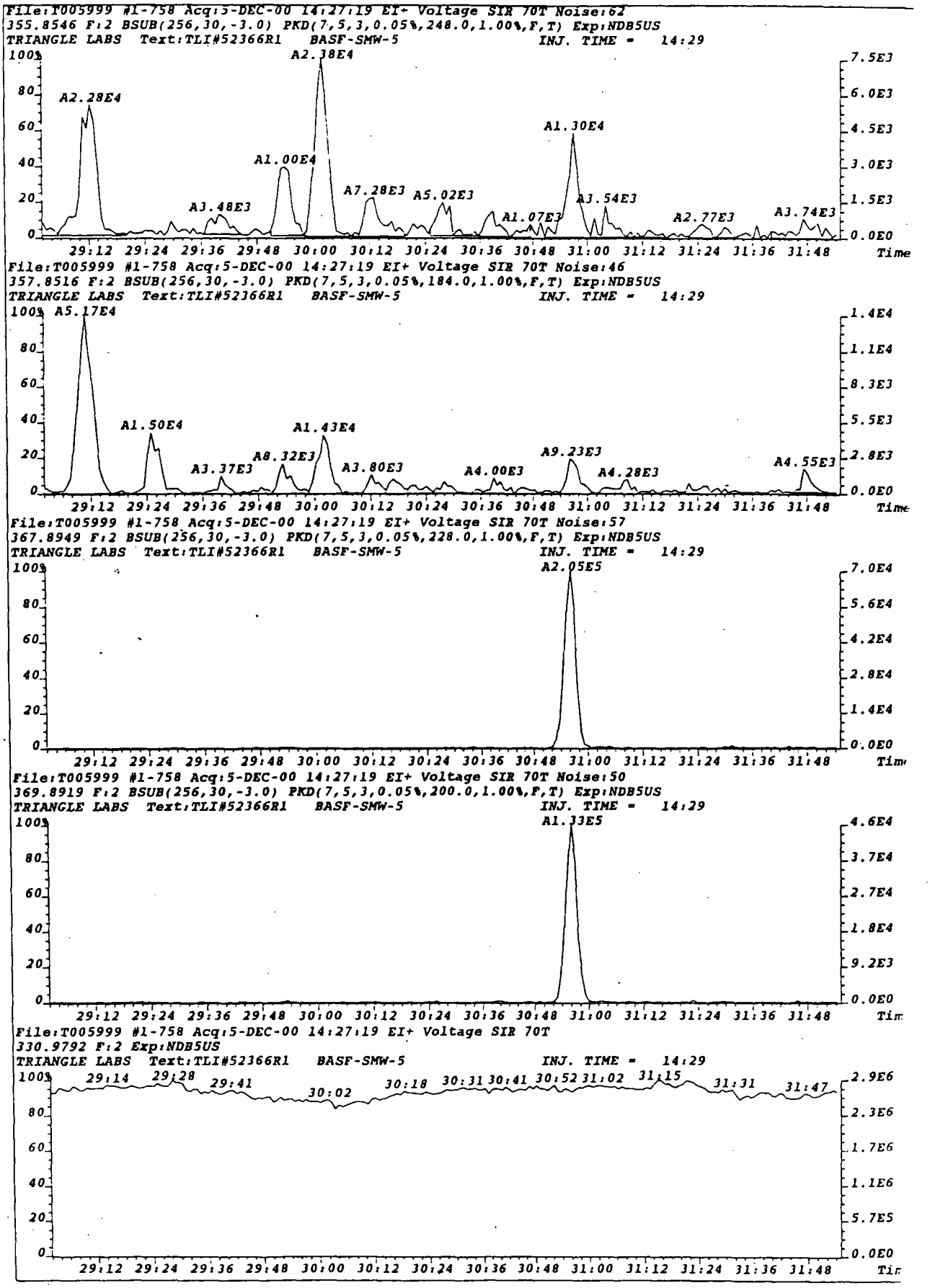
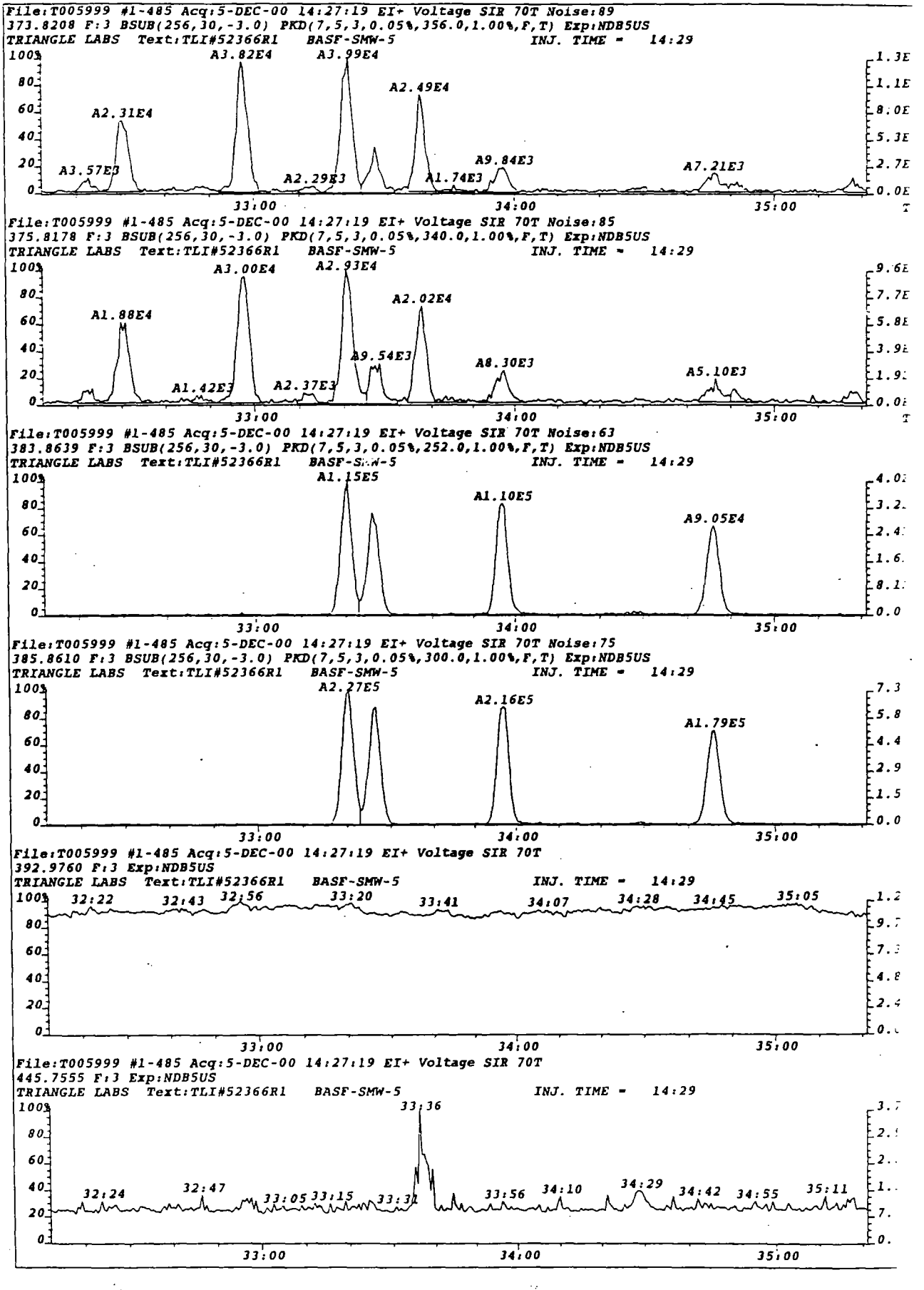
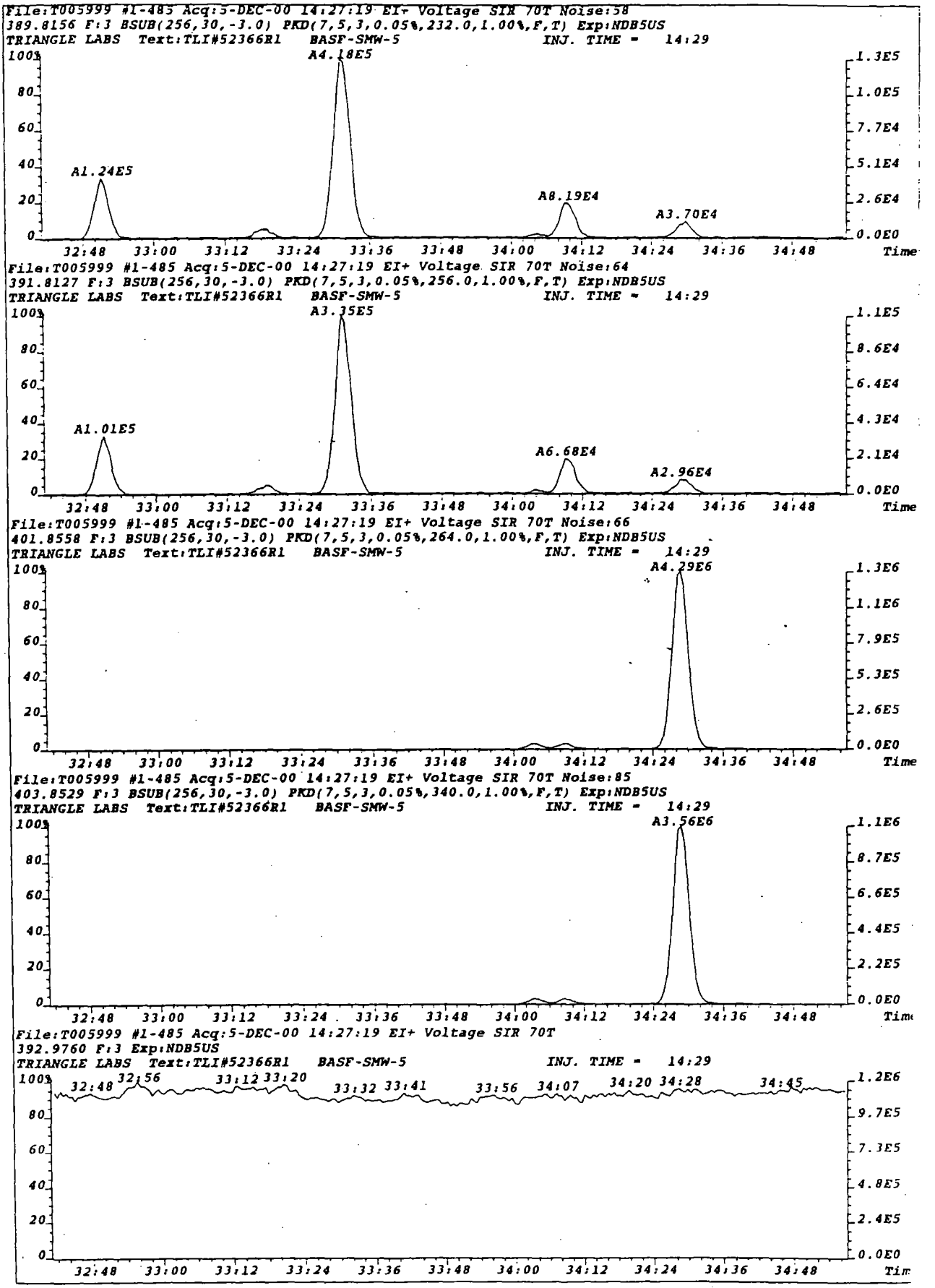
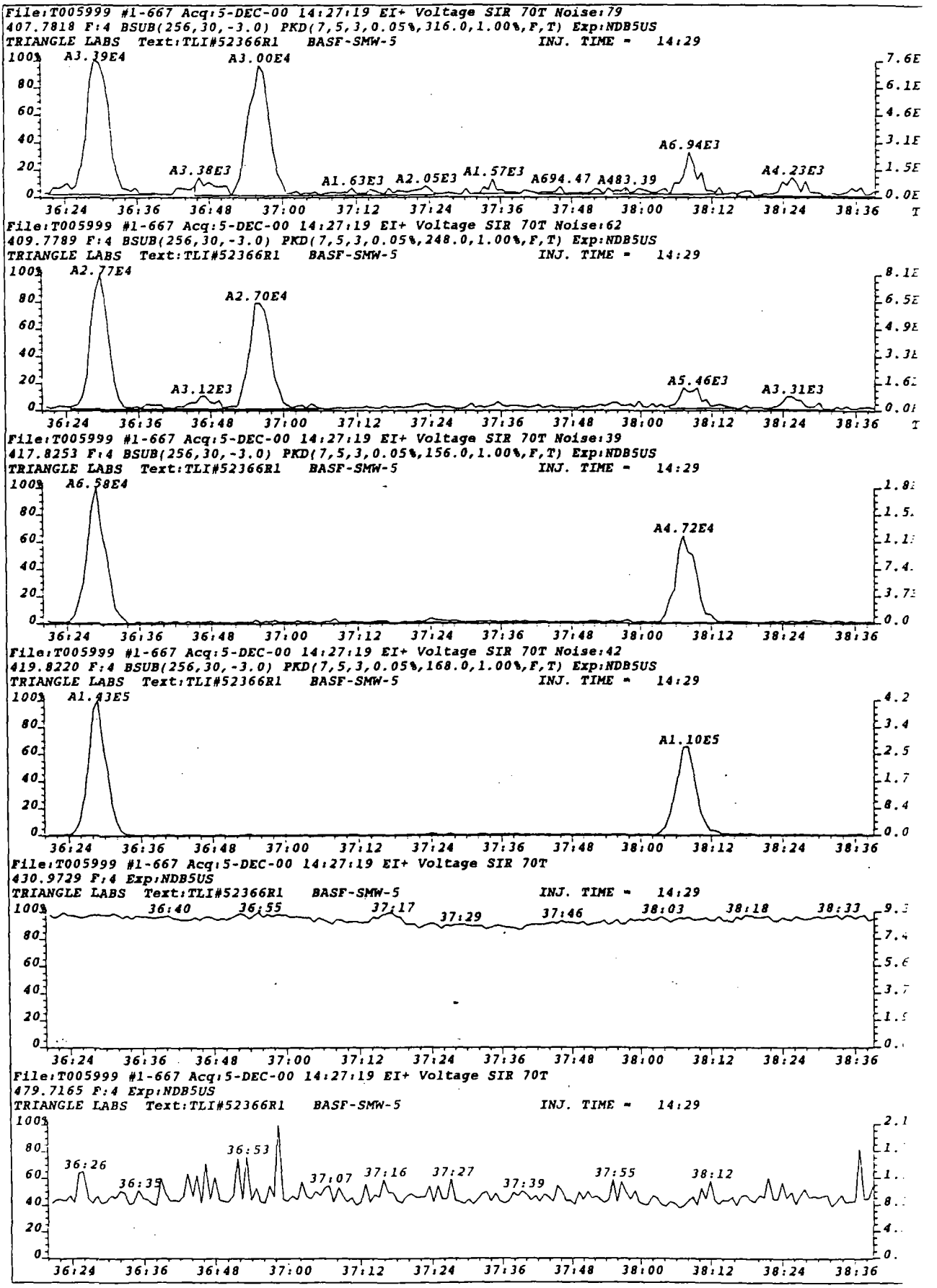
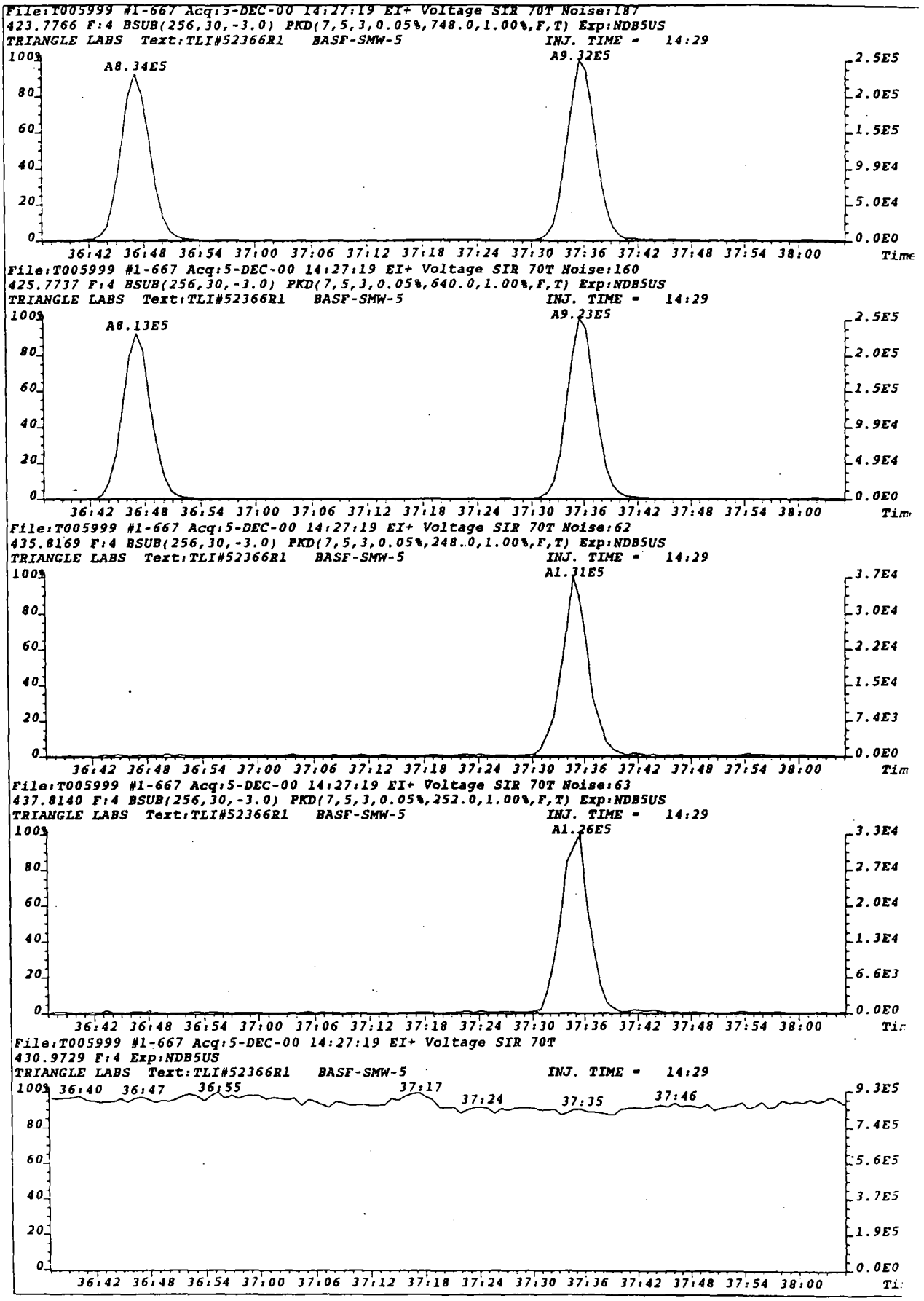
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,224.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A1.67E4
A4.36E4
A5.93E3
A9.76E4
A2.41E4
A2.44E4
A1.68E4
A3.11E4
A3.54E3
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:80
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,320.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A1.14E4
A3.46E4
A4.70E3
A6.95E4
A1.58E4
A1.31E3
A1.74E4
A1.27E4
A2.03E4
A2.78E3
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:71
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,284.0,1.00% F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A2.66E5
A3.09E5
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:80
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,320.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A1.81E5
A2.01E5
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
28:13 28:29 29:28 29:49 30:52 31:15 31:31 31:53
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
29:59
31:18
28:04 28:56 29:20 29:40 30:38 30:58 31:32 31:50
28:00 29:00 30:00 31:00 32:00

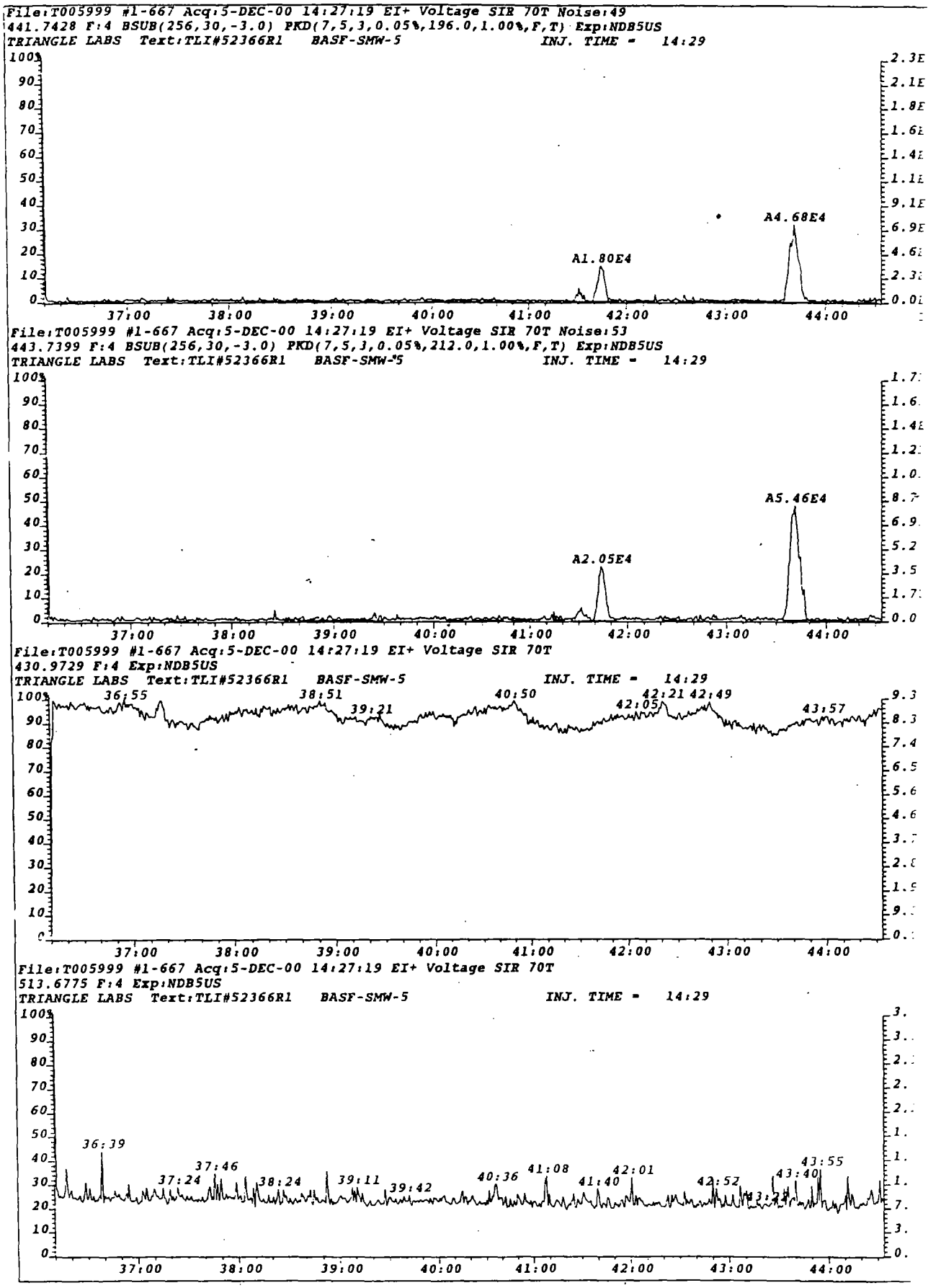

File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:62
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,248.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A2.28E4
A2.38E4
A1.00E4
A3.48E3
A7.28E3
A5.02E3
A1.07E3
A1.30E4
A3.54E3
A2.77E3
A3.74E3
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:46
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,184.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A5.17E4
A1.50E4
A3.37E3
A8.32E3
A1.43E4
A3.80E3
A4.00E3
A9.23E3
A4.28E3
A4.55E3
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:57
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,228.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A2.05E5
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:50
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A1.33E5
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
29:14 29:28 29:41 30:02 30:18 30:31 30:41 30:52 31:02 31:15 31:31 31:47
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

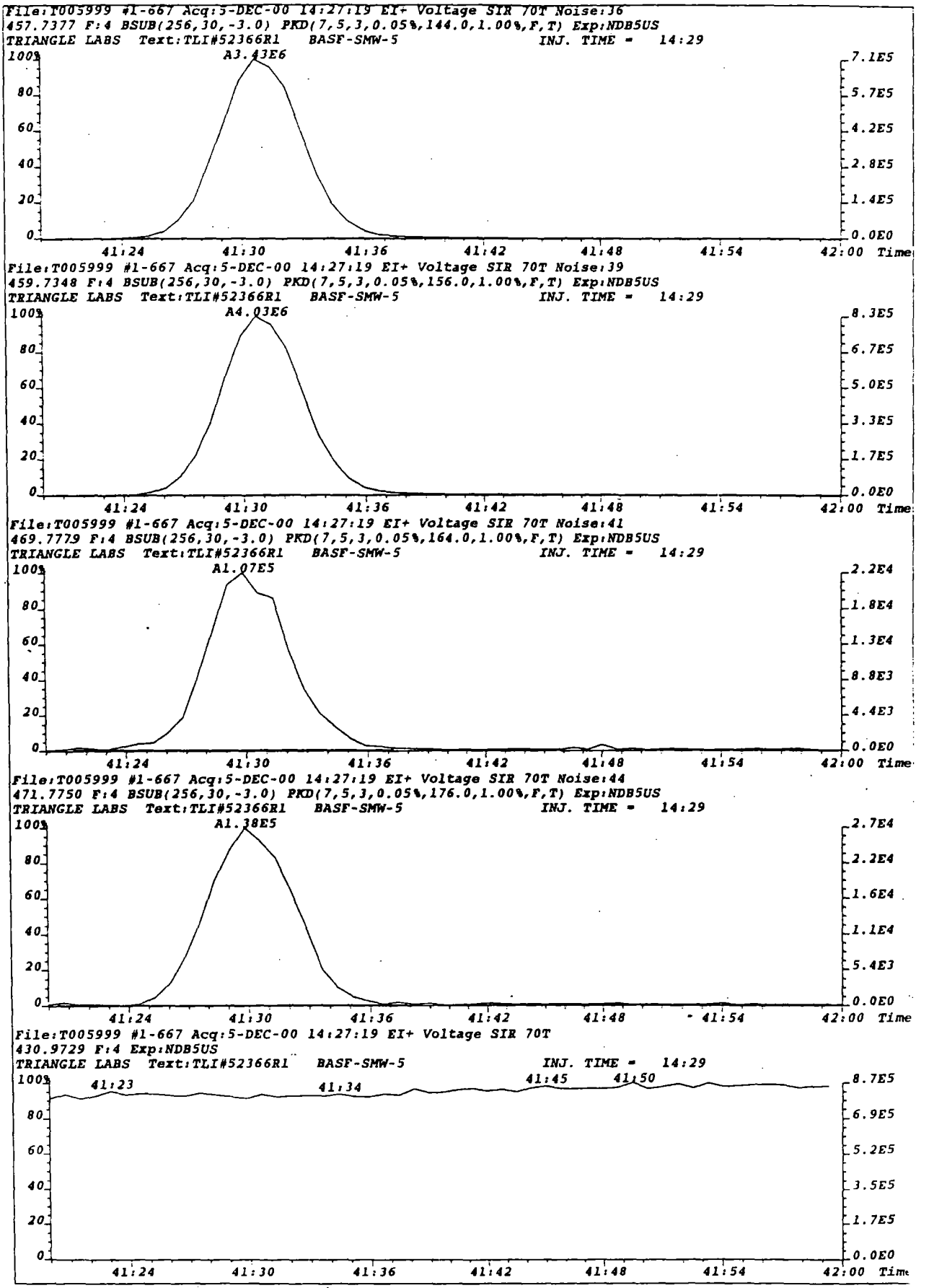

File:T005999 #1-485 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:89
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,356.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A3.82E4
A3.99E4
A2.49E4
A2.31E4
A3.57E3
A2.29E3
A1.74E3
A9.84E3
A7.21E3
File:T005999 #1-485 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:85
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,340.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A3.00E4
A2.93E4
A2.02E4
A1.88E4
A9.54E3
A8.30E3
A5.10E3
A1.42E3
A2.37E3
File:T005999 #1-485 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:63
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A1.15E5
A1.10E5
A9.05E4
File:T005999 #1-485 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:75
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,300.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A2.27E5
A2.16E5
A1.79E5
File:T005999 #1-485 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
32:22
32:43
32:56
33:20
33:41
34:07
34:28
34:45
35:05
File:T005999 #1-485 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
33:36
32:24
32:47
33:05
33:15
33:31
33:56
34:10
34:29
34:42
34:55
35:11
33:00
34:00
35:00

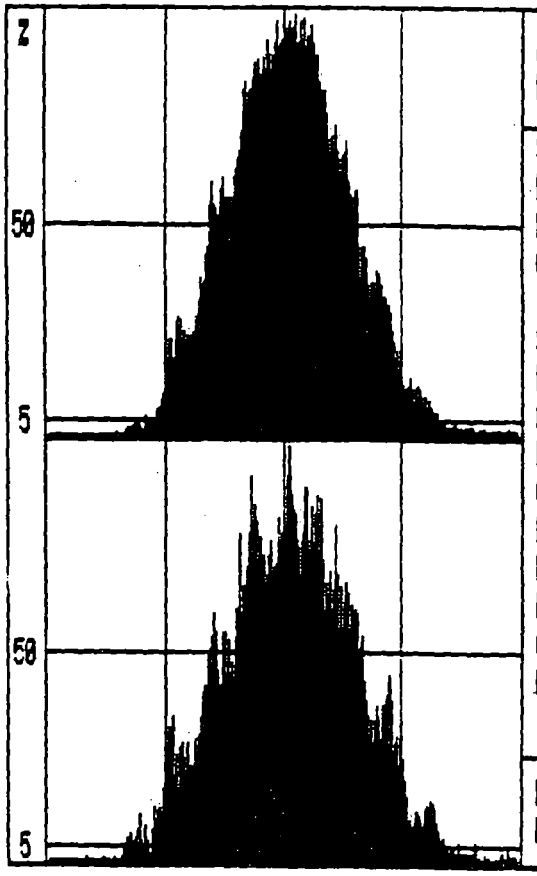

File:T005999 #1-485 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:58
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A4.18E5
A1.24E5
A8.19E4
A3.70E4
File:T005999 #1-485 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:64
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A3.75E5
A1.01E5
A6.68E4
A2.96E4
File:T005999 #1-485 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:66
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,264.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A4.29E6
File:T005999 #1-485 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:85
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,340.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A3.56E6
File:T005999 #1-485 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29


File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:79
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A3.39E4
A3.00E4
A3.38E3
A1.63E3
A2.05E3
A1.57E3
A694.47
A483.39
A6.94E3
A4.23E3
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:62
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,248.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A2.77E4
A2.70E4
A3.12E3
A5.46E3
A3.31E3
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:39
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A6.58E4
A4.72E4
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:42
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,168.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A1.13E5
A1.10E5
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29


File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:187
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,748.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A8.34E5
A9.32E5
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:160
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,640.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A8.13E5
A9.23E5
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:62
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,248.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A1.31E5
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:63
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A1.26E5
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
36:40 36:47 36:55 37:17 37:24 37:35 37:46
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00


File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:49
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,196.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A1.80E4
A4.68E4
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:53
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A2.05E4
A5.46E4
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
36:55
38:51
39:21
40:50
42:05
42:21
42:49
43:57
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
36:39
37:24
37:46
38:24
39:11
39:42
40:36
41:08
41:40
42:01
42:52
43:40
43:55
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00


File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:36
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,144.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A3.43E6
7.1E5
5.7E5
4.2E5
2.8E5
1.4E5
0.0E0
41:24
41:30
41:36
41:42
41:48
41:54
42:00 Time
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:39
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A4.03E6
8.3E5
6.7E5
5.0E5
3.3E5
1.7E5
0.0E0
41:24
41:30
41:36
41:42
41:48
41:54
42:00 Time
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:41
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,164.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A1.07E5
2.2E4
1.8E4
1.3E4
8.8E3
4.4E3
0.0E0
41:24
41:30
41:36
41:42
41:48
41:54
42:00 Time
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T Noise:44
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,176.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
A1.38E5
2.7E4
2.2E4
1.6E4
1.1E4
5.4E3
0.0E0
41:24
41:30
41:36
41:42
41:48
41:54
42:00 Time
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29
41:23
41:34
41:45
41:50
8.7E5
6.9E5
5.2E5
3.5E5
1.7E5
0.0E0
41:24
41:30
41:36
41:42
41:48
41:54
42:00 Time

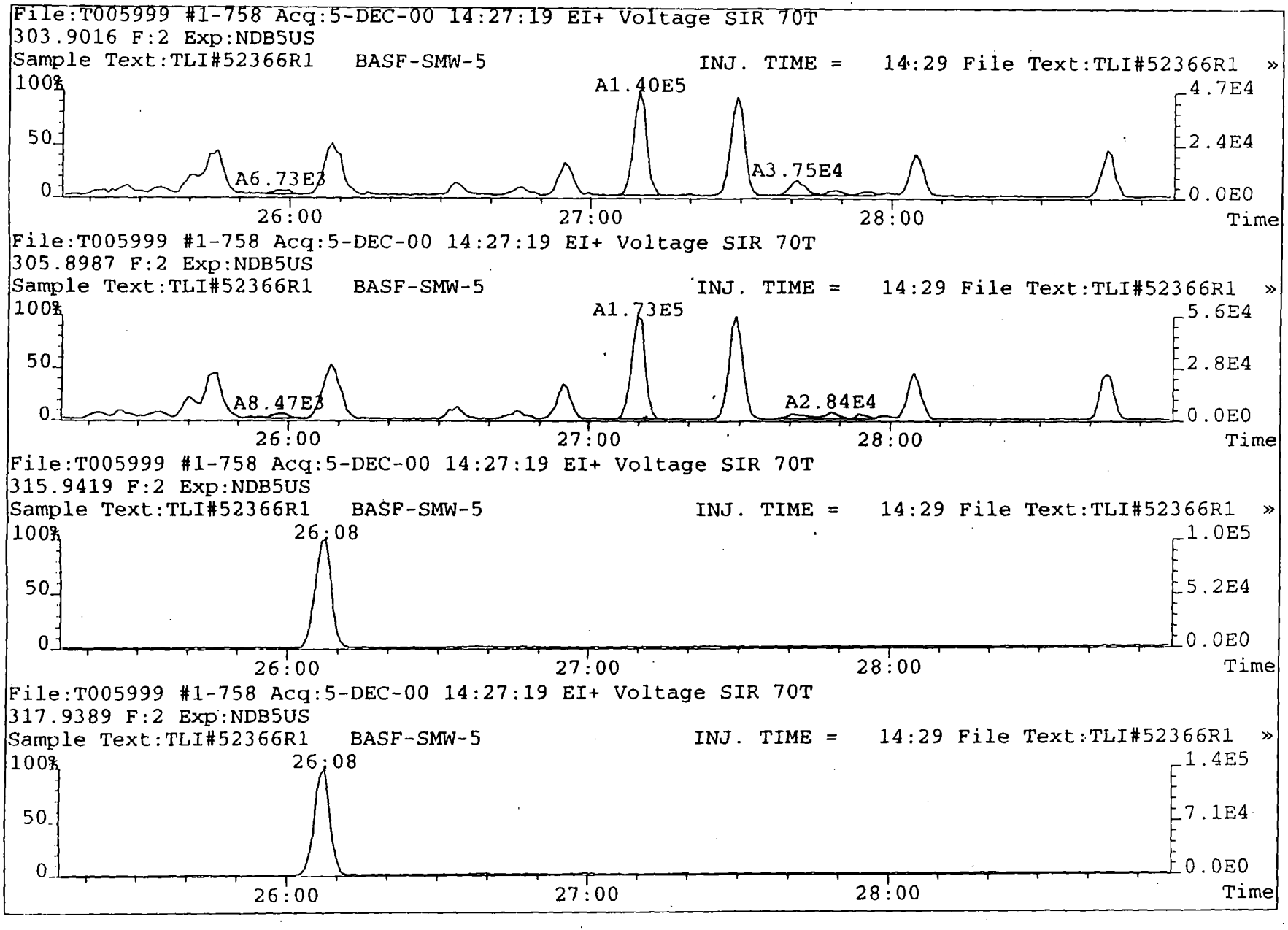


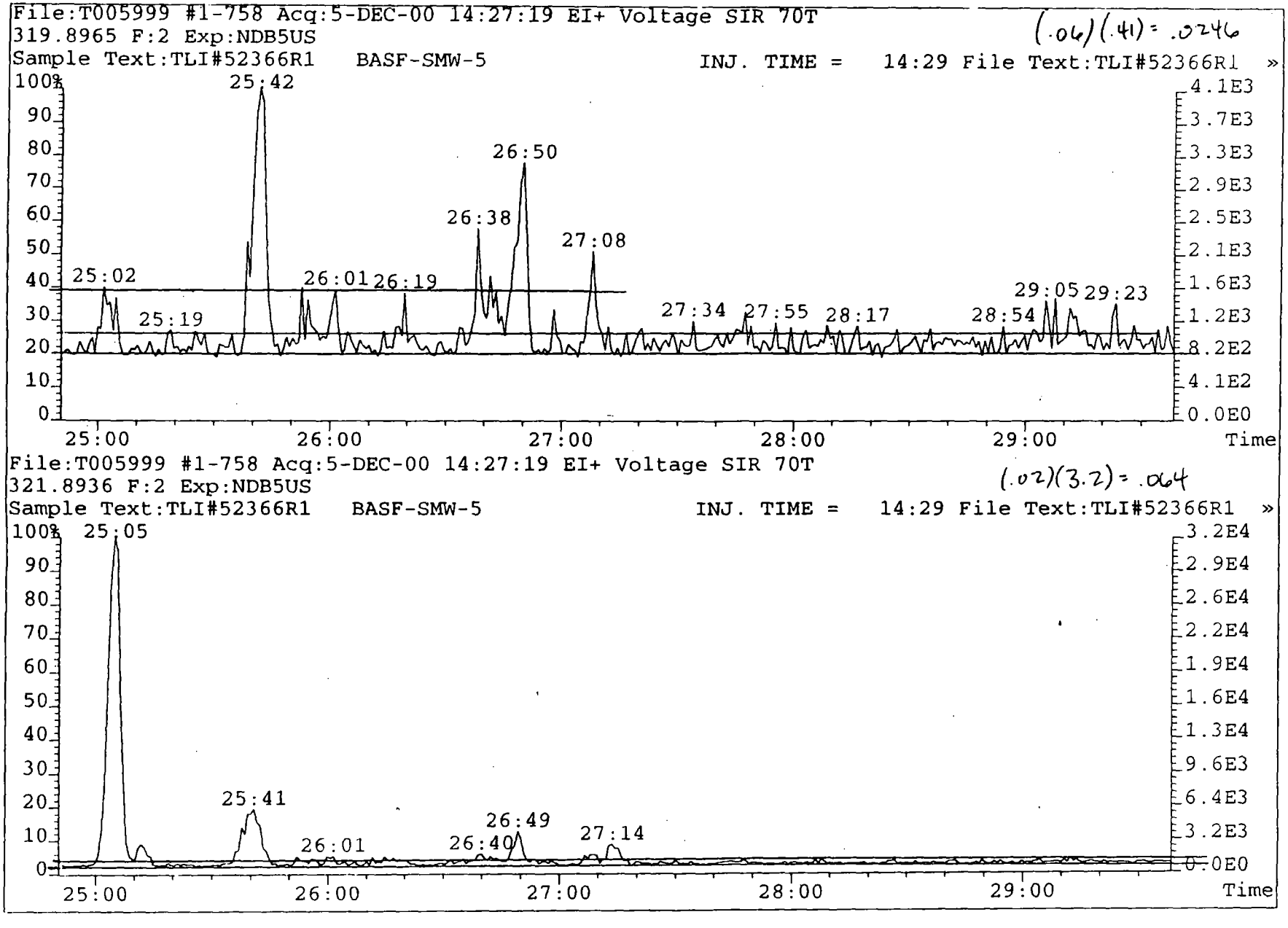
Channel I 330.9792 Peak top
Height .68 volts Span 200 ppm

System file name	MD85US
Data file name	A:TD050003
Resolution	10000
Group number	2
Ionization mode	EI+
Switching	VOLTAGE
Ref. masses	292.9825, 416.9760

A	293	J	331	S	368
B	304	K	332	T	370
C	306	L	334	U	376
D	316	M	340	V	410
E	318	N	342		
F	320	O	352		
G	322	P	354		
H	328	Q	356		
I	331	R	358		

Ref. mass 416.9760 Peak top
Height .13 volts Span 200 ppm


File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
303.9016 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29 File Text:TLI#52366R1
100%
50
0
A1.40E5
A6.73E3
A3.75E4
4.7E4
2.4E4
0.0E0
26:00
27:00
28:00
Time
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
305.8987 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29 File Text:TLI#52366R1
100%
50
0
A1.73E5
A8.47E3
A2.84E4
5.6E4
2.8E4
0.0E0
26:00
27:00
28:00
Time
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
315.9419 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29 File Text:TLI#52366R1
100%
50
0
26:08
1.0E5
5.2E4
0.0E0
26:00
27:00
28:00
Time
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
317.9389 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29 File Text:TLI#52366R1
100%
50
0
26:08
1.4E5
7.1E4
0.0E0
26:00
27:00
28:00
Time

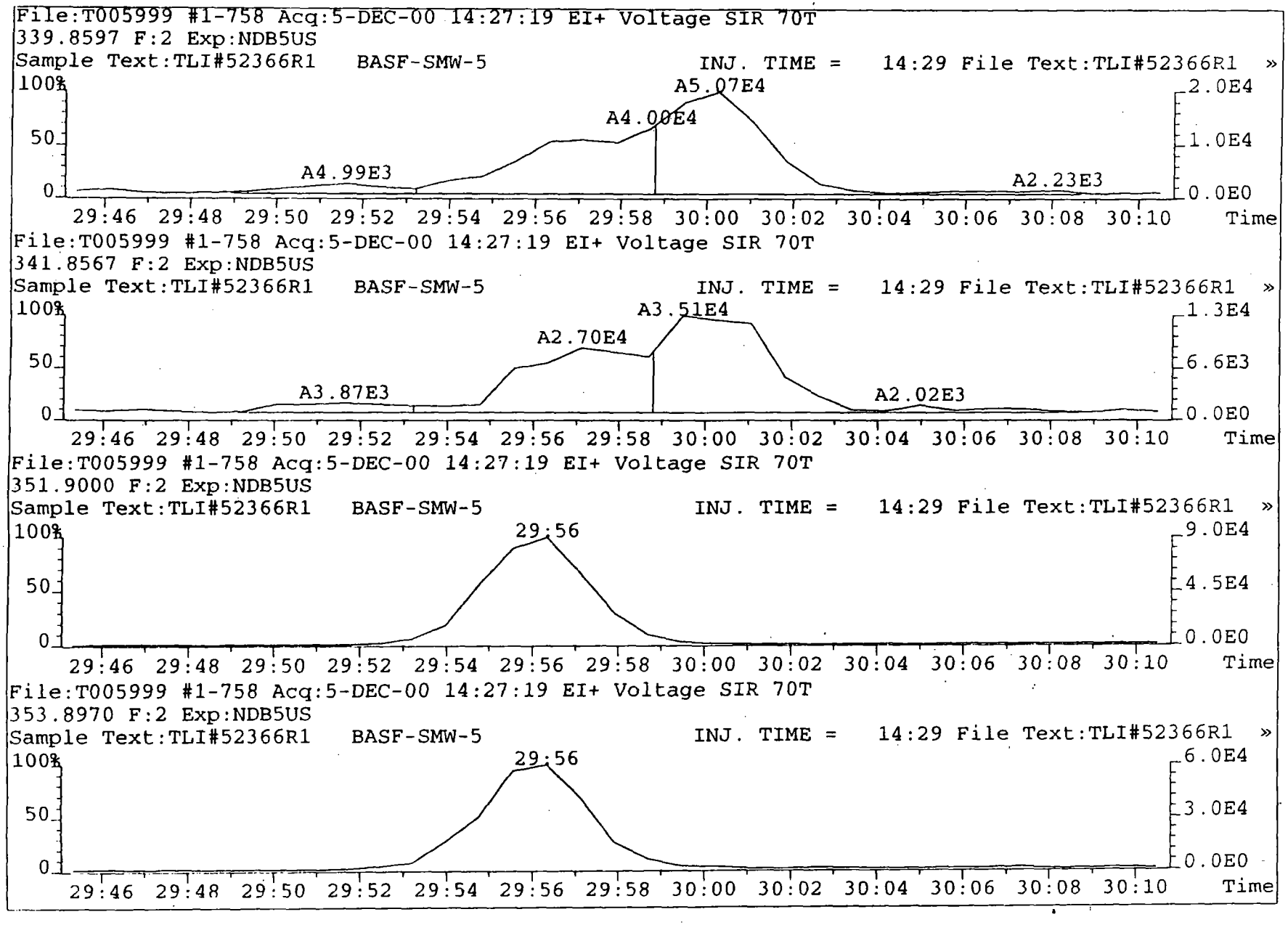


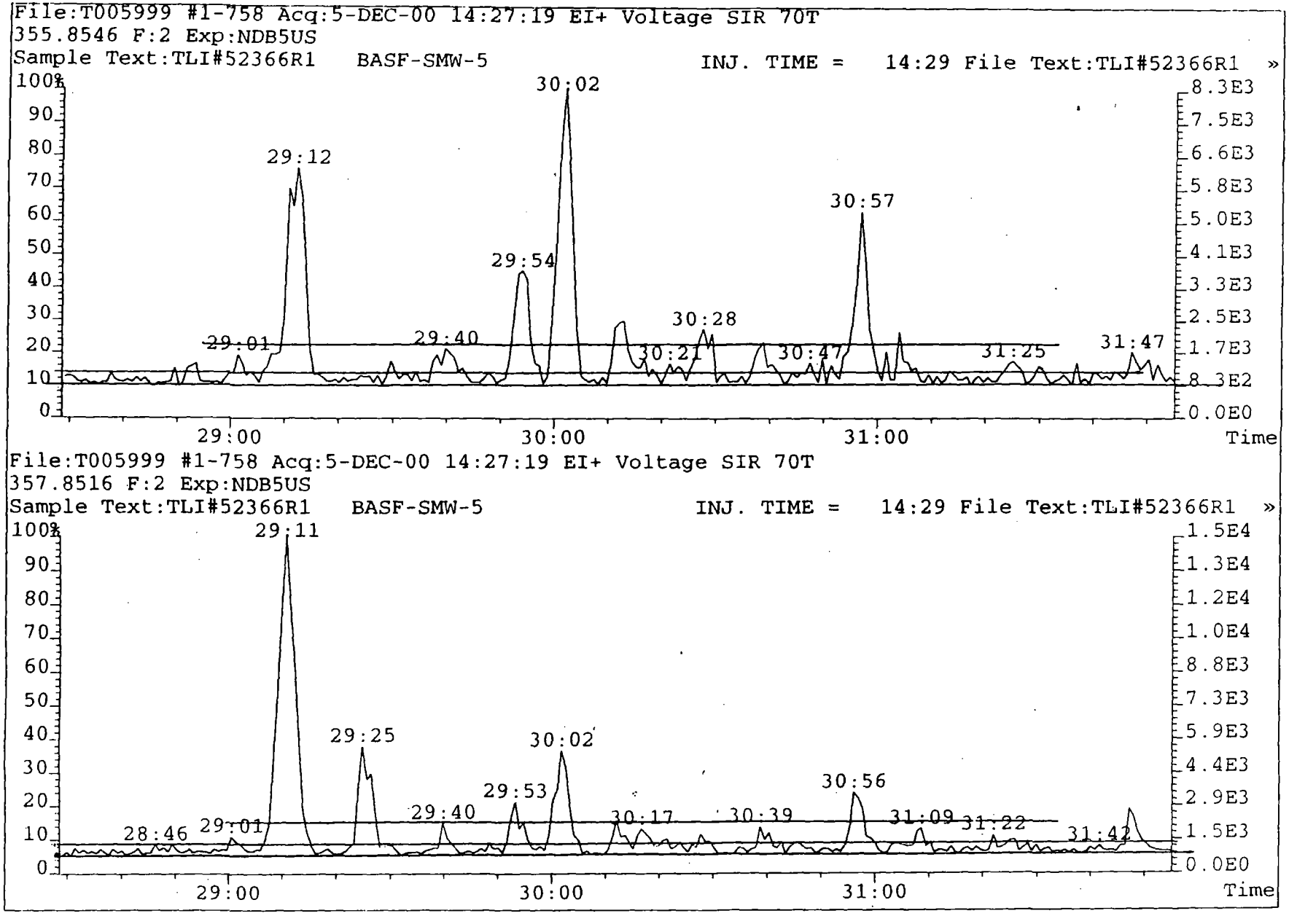
(.06)(.41) = .0246

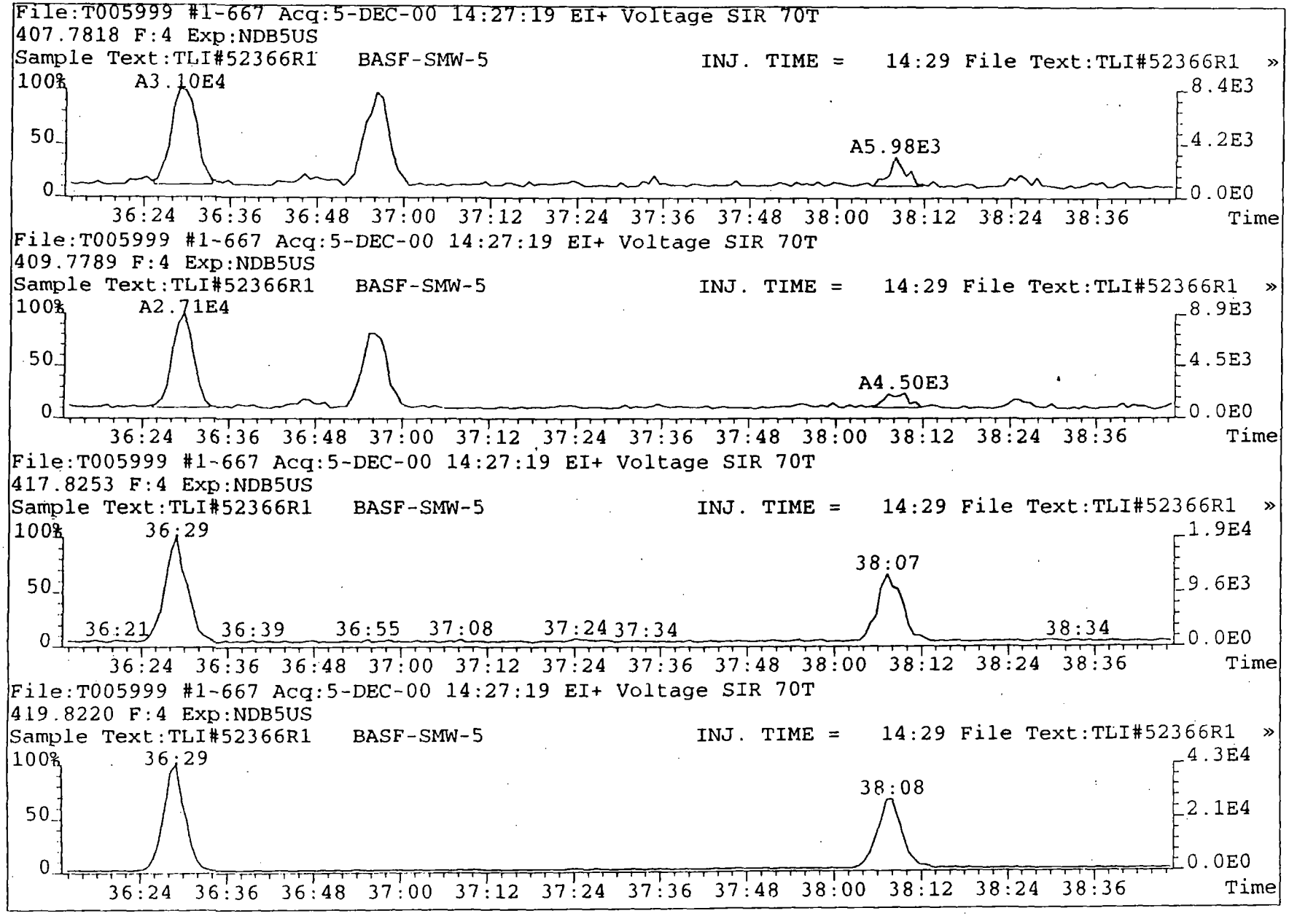
.0246
.064
.0886

JCA
12/13/00

(.02)(3.2) = .064


File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
339.8597 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29 File Text:TLI#52366R1
A5.07E4
A4.00E4
A4.99E3
A2.23E3
2.0E4
1.0E4
0.0E0
29:46 29:48 29:50 29:52 29:54 29:56 29:58 30:00 30:02 30:04 30:06 30:08 30:10 Time
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
341.8567 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29 File Text:TLI#52366R1
A3.51E4
A2.70E4
A3.87E3
A2.02E3
1.3E4
6.6E3
0.0E0
29:46 29:48 29:50 29:52 29:54 29:56 29:58 30:00 30:02 30:04 30:06 30:08 30:10 Time
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
351.9000 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29 File Text:TLI#52366R1
29:56
9.0E4
4.5E4
0.0E0
29:46 29:48 29:50 29:52 29:54 29:56 29:58 30:00 30:02 30:04 30:06 30:08 30:10 Time
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
353.8970 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29 File Text:TLI#52366R1
29:56
6.0E4
3.0E4
0.0E0
29:46 29:48 29:50 29:52 29:54 29:56 29:58 30:00 30:02 30:04 30:06 30:08 30:10 Time


File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
355.8546 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29 File Text:TLI#52366R1
29:12
30:02
29:54
30:57
30:28
29:01
29:40
30:21
30:47
31:25
31:47
Time
File:T005999 #1-758 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
357.8516 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29 File Text:TLI#52366R1
29:11
29:25
30:02
29:53
30:56
28:46
29:01
29:40
30:17
30:39
31:09
31:22
31:42
Time


File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
407.7818 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29 File Text:TLI#52366R1
100%
A3.10E4
A5.98E3
8.4E3
4.2E3
0.0E0
50
0
36:24 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36
Time
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
409.7789 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29 File Text:TLI#52366R1
100%
A2.71E4
A4.50E3
8.9E3
4.5E3
0.0E0
50
0
36:24 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36
Time
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
417.8253 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29 File Text:TLI#52366R1
100%
36:29
38:07
1.9E4
9.6E3
0.0E0
50
0
36:21
36:39
36:55
37:08
37:24
37:34
38:34
36:24 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36
Time
File:T005999 #1-667 Acq:5-DEC-00 14:27:19 EI+ Voltage SIR 70T
419.8220 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 14:29 File Text:TLI#52366R1
100%
36:29
38:08
4.3E4
2.1E4
0.0E0
50
0
36:24 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36
Time

TriMatrix, Inc.

TLI Project: **52366r1** Method 8290 TCDD/TCDF Analysis (DB-2
Client Sample: **BASF-SMW-5** Analysis File: **P0044**

Client Project:	BASF-Malcolm Pirnie				
Sample Matrix:	WATER	Date Received:	11/17/2000	Spike File:	SPC2NF2
TLI ID:	274-99-1B	Date Extracted:	12/01/2000	ICal:	PF2O230
		Date Analyzed:	12/05/2000	ConCal:	P004403
Sample Size:	1.080 L	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T005998	% Lipid:	n/a
GC Column:	DB-225	Analyst:	DFS	% Solids:	n/a

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flag
2,3,7,8-TCDF	327			0.69	23:49	

Internal Standard	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-2,3,7,8-TCDF	107	5.78	40%-130%	0.81	23:48	V

Recovery Standard	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,4-TCDD	0.82	22:37	

Data Reviewer: _____ 12/13/2000

C2NF.PSR v2.03.LAP

Triangle Laboratories, Inc.
801 Capitola Drive • Durham, North Carolina 27713
Phone: (919) 544-5729 • Fax: (919) 544-5491

Printed: 17:39 12/13/

Initial ....Date...

Data Review By: JCH 12/13/00

Calculated Noise Height: 0.12

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 P004408B.dbf
12/13/2000 Matched GC Peaks / Ratio / Ret. Time

Compound.
M_I.... 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					0.791-1.108			
304-306		DC	NL		Height		0.18		0.08	0.10			
		DC	SN	19:01		0.82	0.40				0.984		
				19:10	RO	2.32	0.94		1.23	0.53	0.991		
				19:15		0.70	0.90		0.37	0.53	0.996		
	N	DC	SN	19:21	RO	1.18	0.30				1.001		
		DC	SN	19:50	RO	0.56	0.71				1.026		
				20:00	RO	0.60	1.72		0.75	1.24	1.034		
				20:10	RO	1.17	1.54		1.02	0.87	1.043		
				20:17	RO	0.63	2.46		1.07	1.69	1.049		
				20:31	RO	1.12	5.89		3.74	3.33	1.061		
		DC	SN	20:43	RO	3.72	0.51				1.072		
				20:55		0.69	4.32		1.77	2.55	1.082		
				21:04		0.86	2.08		0.96	1.12	1.090		
				21:13		0.66	5.78		2.29	3.49	1.097		
				21:19		0.68	4.21		1.70	2.51	1.103		
				21:24	RO	1.06	2.32		1.39	1.31	1.107		
		DC	WH	21:38	RO	0.40	0.14				1.119		
		DC	WH	21:50	RO	0.63	4.60				1.129		
		DC	WH	22:17		0.78	13.54				1.153		
		DC	WH	22:23	RO	2.12	0.30				1.158		
		DC	WH	22:33		0.76	2.04				1.166		
		DC	WH	22:44	RO	3.03	0.57				1.176		
		DC	WH	22:48	RO	0.59	1.31				1.179		
		DC	WH	23:00	RO	1.25	0.35				1.190		
		DC	WH	23:15		0.73	10.07				1.203		
		DC	WH	23:23		0.77	24.01				1.209		
		DC	WH	23:31	RO	1.11	0.32				1.216		
		DC	WH	23:40		0.70	22.84				1.224		
	KN			23:49		0.69	12.28		5.03	7.25	1.232	2378-TCDF	AN
		DC	WH	24:05		0.69	2.42				1.246		
		DC	WH	24:09	RO	1.00	0.27				1.249		
		DC	WH	24:29		0.84	3.46				1.266		
		DC	WH	24:42		0.71	10.30				1.278		
		DC	WH	24:50	RO	3.80	0.09				1.284		
		DC	WH	25:09	RO	1.00	0.04				1.301		
		DC	WH	25:19		0.72	13.34				1.309		
		DC	WH	25:47	RO	3.71	0.25				1.334		
		DC	WH	25:52	RO	0.91	0.39				1.338		
		DC	WH	26:28		0.67	48.26				1.369		
		DC	WH	26:40	RO	1.03	0.53				1.379		
304-306				12 Peaks			44.44						

Compound/ M_3....	QC.Log	Cmit	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				0.958-1.042			
316-318		DC	NL			Height	0.58	0.18	0.40				
	ND	D	SN	19:20		0.76	151.00			1.000			
		DC	SN	19:35		0.33	0.55			1.013			
				19:39	RO	1.09	1.03	0.63	0.58	1.016			
				19:46	RO	0.92	0.69	0.36	0.39	1.022			
				20:09		0.80	2.96	1.32	1.64	1.042			
		DC	WH	20:33	RO	0.28	0.90			1.063			
		DC	WH	21:06	RO	0.30	0.39			1.091			
		DC	WH	22:09		0.89	0.68			1.146			
		DC	WH	22:13	RO	0.46	1.01			1.149			
		DC	WH	22:26	RO	0.34	0.74			1.160			
		DC	WH	22:36	RO	3.10	0.74			1.169			
		DC	WH	22:45	RO	2.51	0.65			1.177			
		DC	WH	22:52	RO	0.92	0.90			1.183			
		DC	WH	23:11	RO	1.41	0.96			1.199			
	KN			23:48		0.81	73.51	32.93	40.58	1.231	13C12-2378-TCDF	IS0	
						Height	18.39	8.03	10.36				
		DC	WH	24:24	RO	0.26	0.34			1.262			
		DC	WH	24:41	RO	0.54	0.46			1.277			
		DC	WH	24:54	RO	1.18	1.47			1.288			
		DC	WH	25:09	RO	0.42	1.01			1.301			
		DC	WH	25:18	RO	2.81	0.48			1.309			
		DC	WH	25:21	RO	2.44	0.48			1.311			
		DC	WH	25:26	RO	0.60	1.20			1.316			
		DC	WH	25:31	RO	1.30	1.22			1.320			
		DC	WH	25:58		0.73	1.02			1.343			
		DC	WH	26:33	RO	2.59	0.60			1.373			
316-318			4	Peaks			78.19						

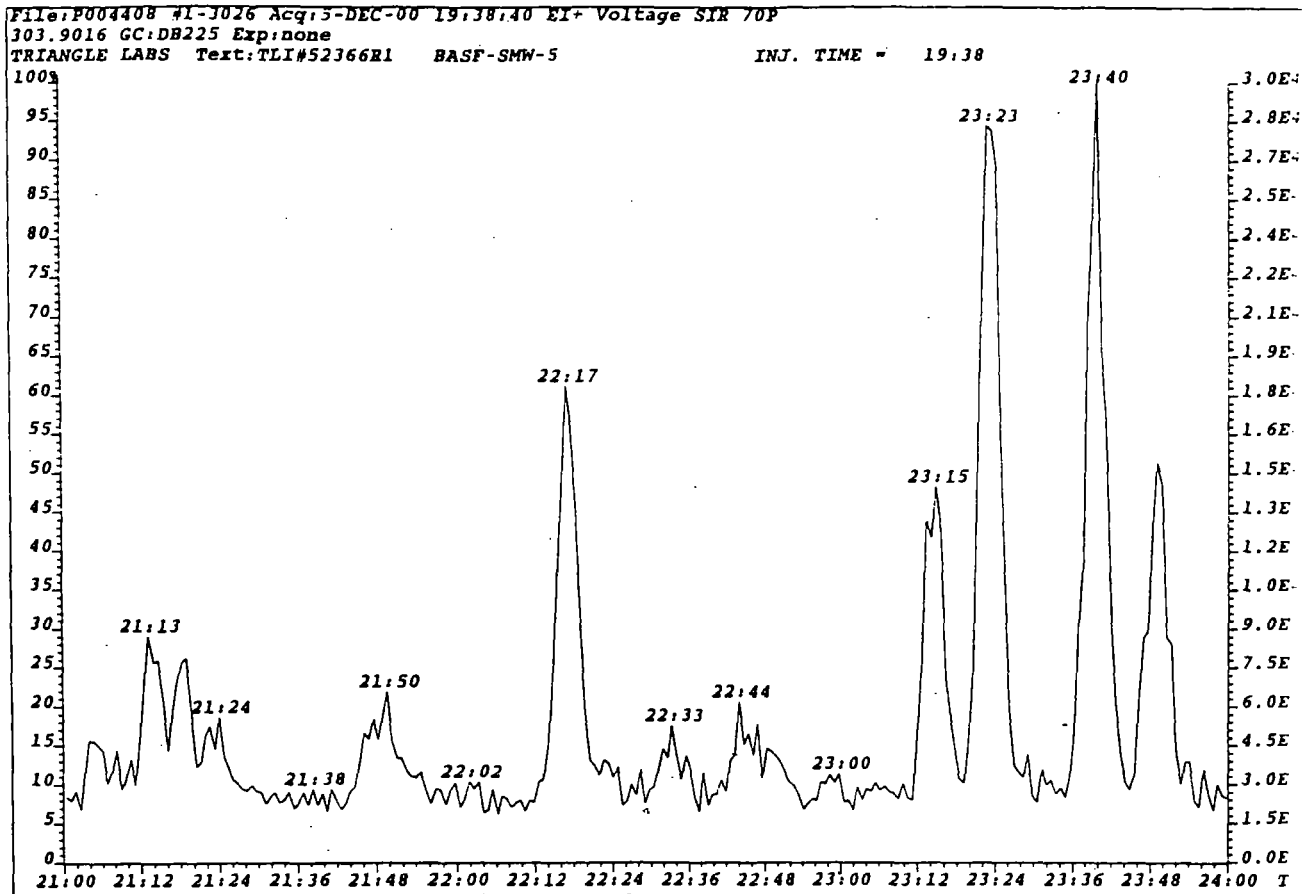
---------- Above: TCDF / TCDD Follows ----------

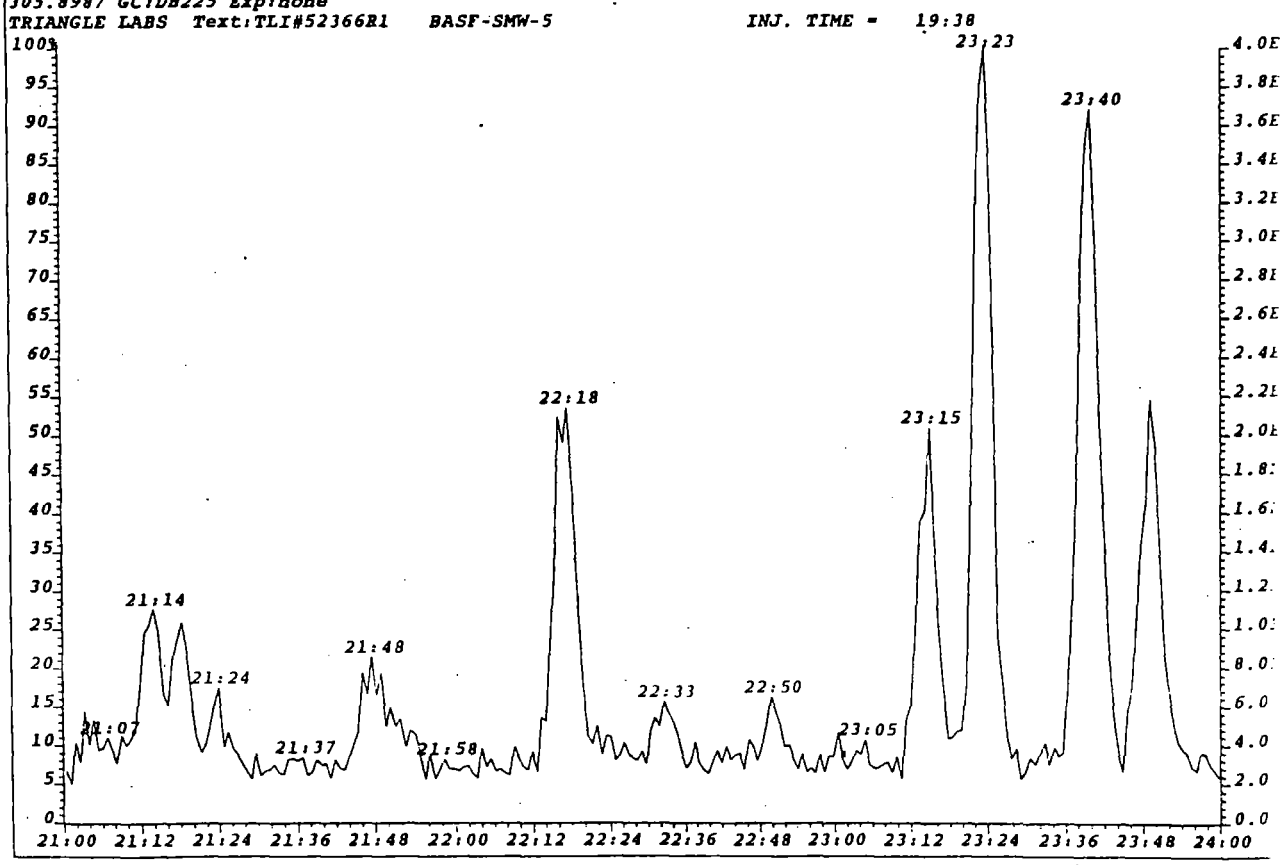
Compound/ M_3....	QC.Log	Cmit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
13C12-TCDD						0.65-0.89				0.910-1.090			
332-334		DC	NL			Height	0.37	0.24	0.13				
		DC	WL	19:56	RO	3.35	0.23			0.881			
		DC	SN	21:37	RO	9.40	0.18			0.956			
	N			22:16		0.79	45.98	20.33	25.65	0.985	13C12-2378-TCDD	IS1	
						Height	12.48	5.59	6.89				
	N			22:37		0.82	813.17	366.77	446.40	1.000	13C12-1234-TCDD	RS1	
		DC	WH	25:13	RO	1.20	1.04			1.115			
		DC	WH	25:36	RO	2.92	0.23			1.132			
		DC	WH	25:44	RO	0.42	0.71			1.138			
332-334			2	Peaks			859.15						

Compound/
M_2.... QC.Log Omit Why ..RT. OK Ratio Total.Area/Ht Area/Ht.Peak1 Area/Ht.Peak2 Rel.RT Compound.Name.. ID.. Flag.

Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_2 -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:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P
303.9016 GC:DB225 Exp:none
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5
INJ. TIME = 19:38
21:13
21:24
21:38
21:50
22:02
22:17
22:33
22:44
23:00
23:15
23:23
23:40
21:00 21:12 21:24 21:36 21:48 22:00 22:12 22:24 22:36 22:48 23:00 23:12 23:24 23:36 23:48 24:00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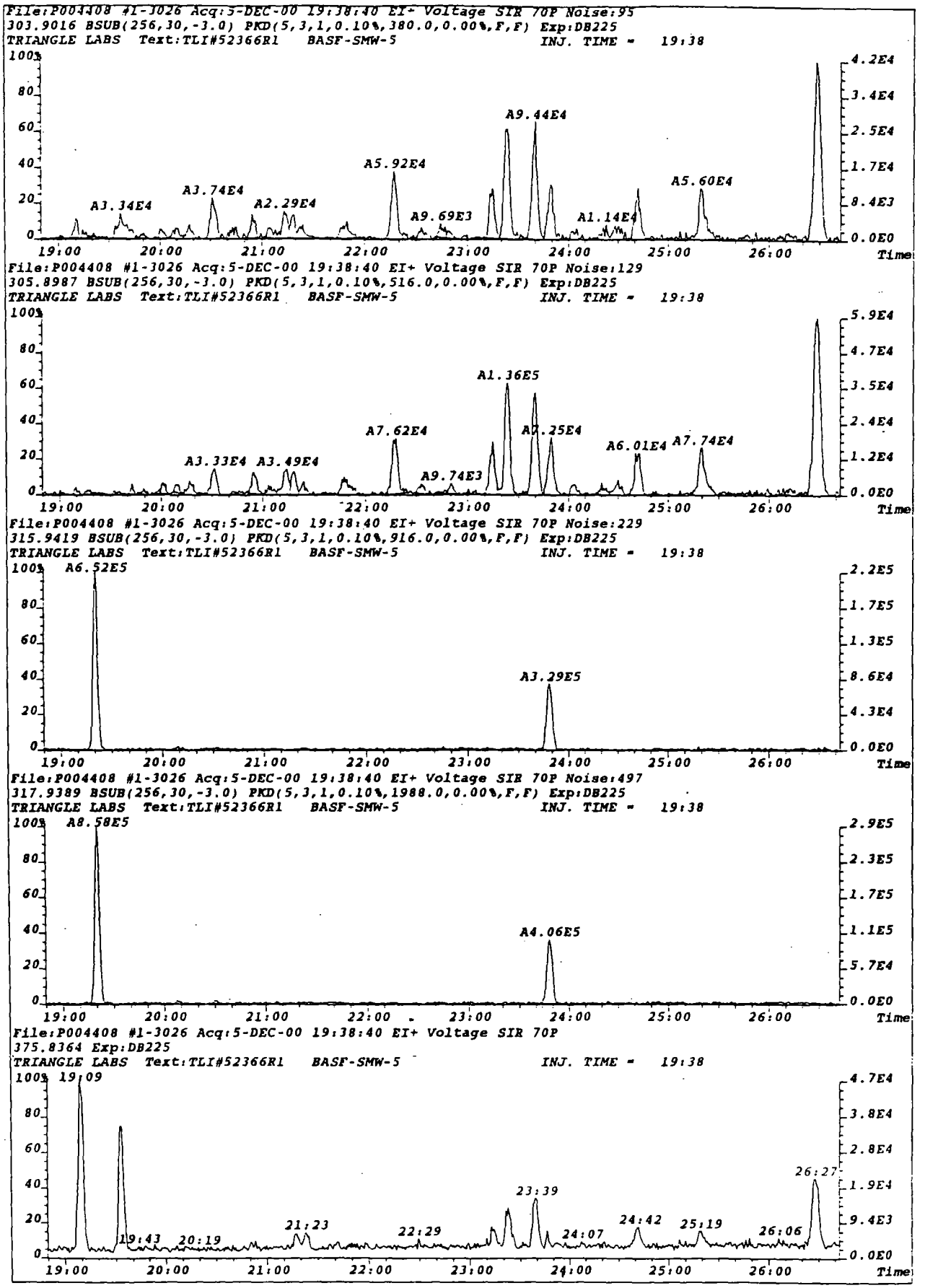
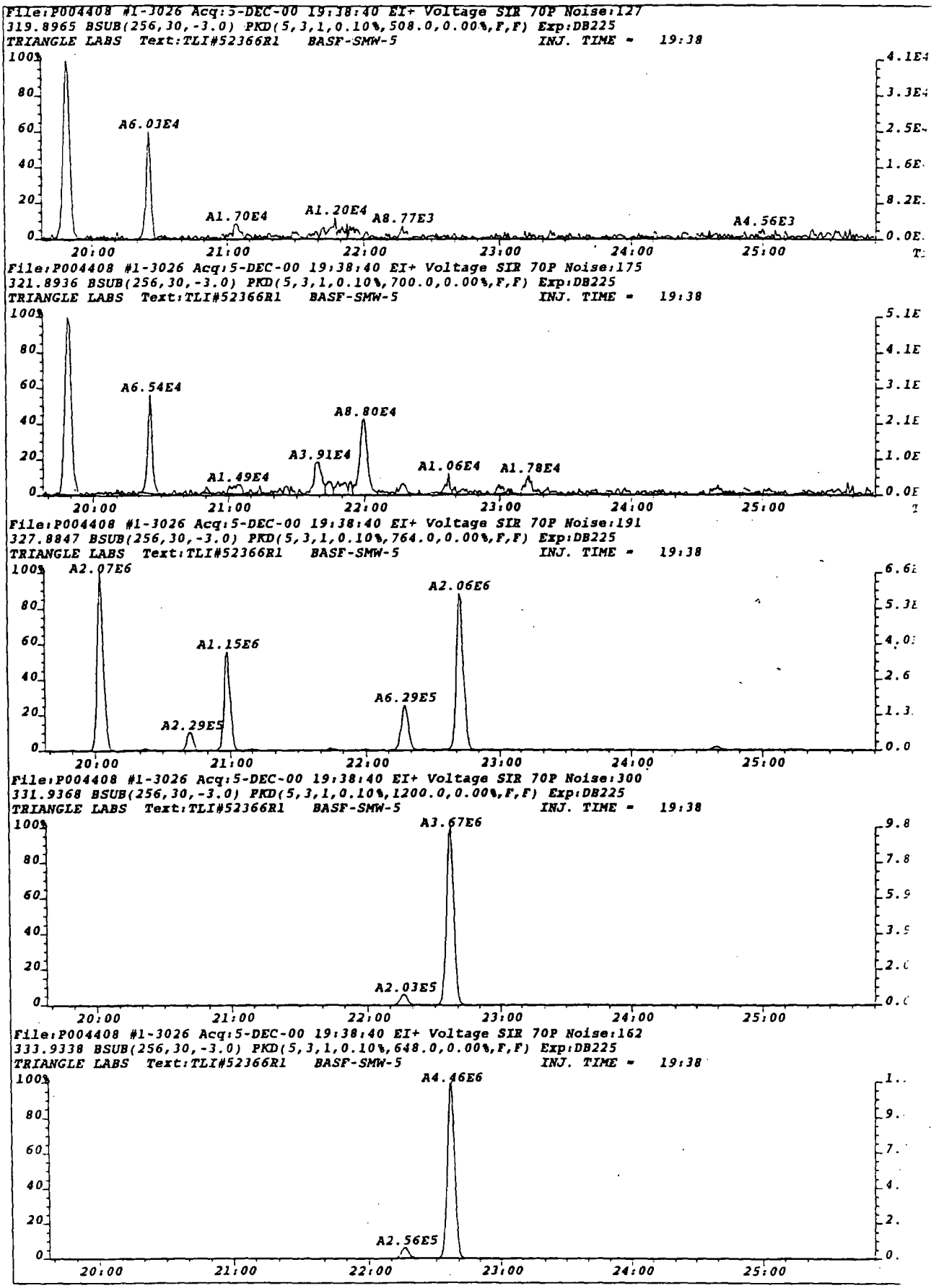
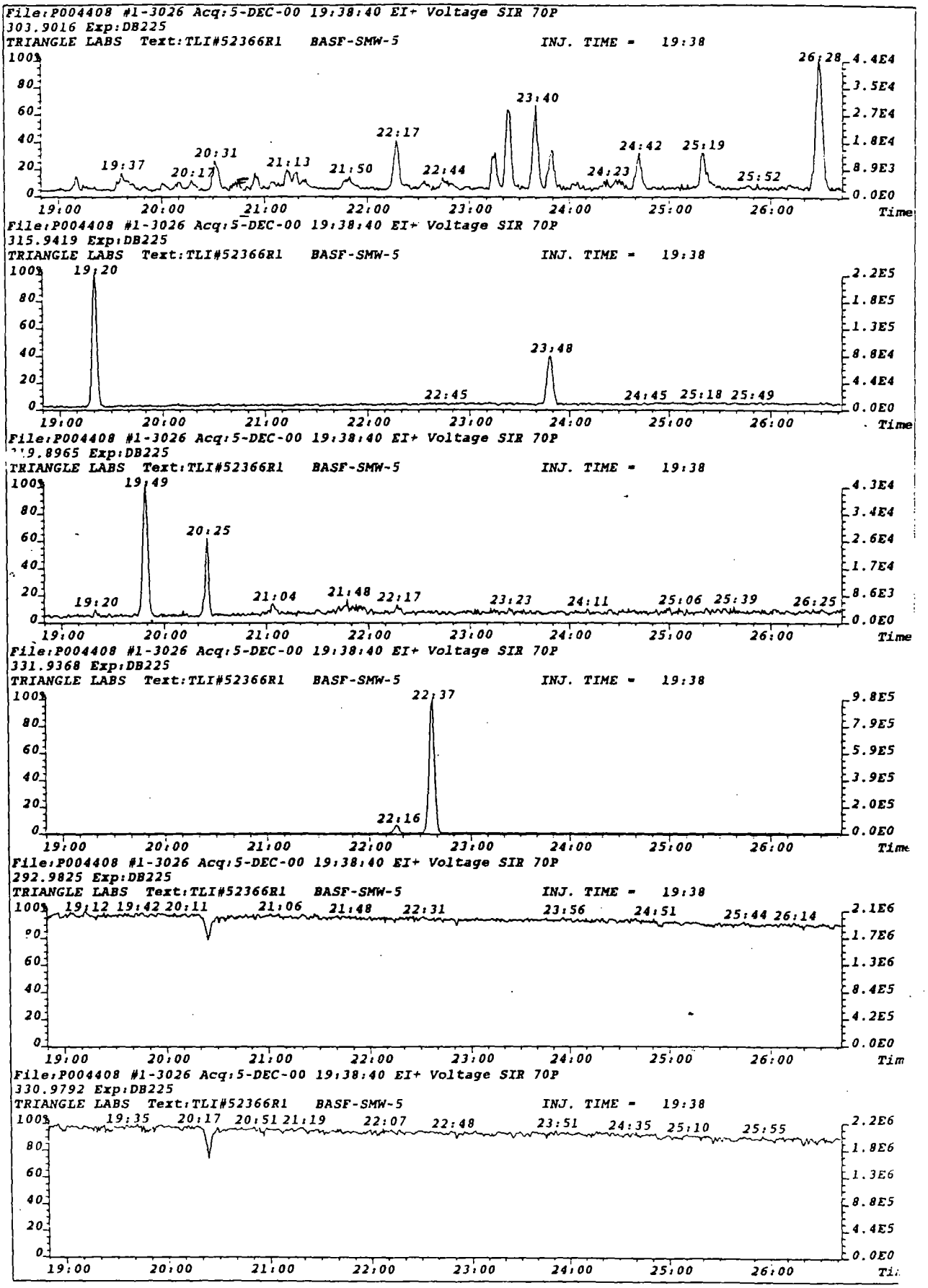
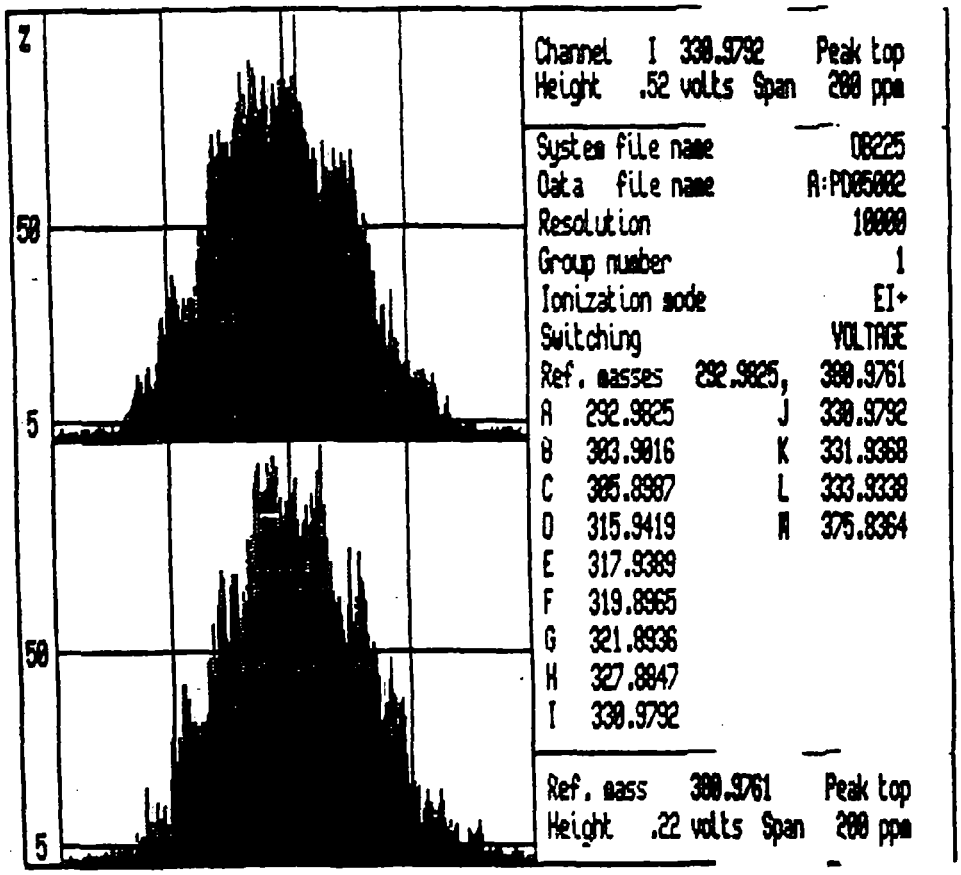
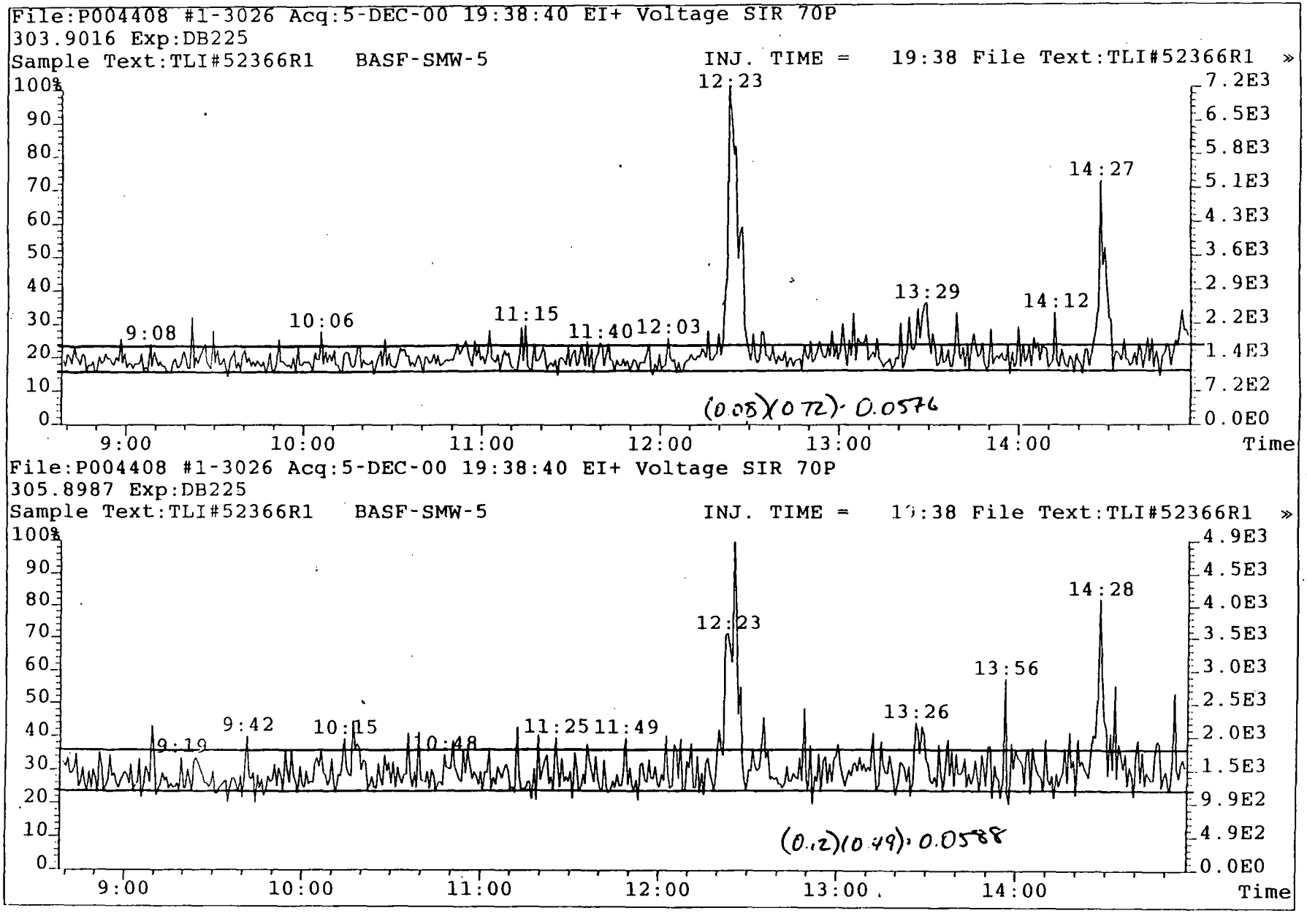
305.8987 GC:DB225 Exp:none
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5
INJ. TIME = 19:38
21:07
21:14
21:24
21:37
21:48
21:58
22:18
22:33
22:50
23:05
23:15
23:23
23:40
21:00 21:12 21:24 21:36 21:48 22:00 22:12 22:24 22:36 22:48 23:00 23:12 23:24 23:36 23:48 24:00


File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P Noise:95
303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,380.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
A3.34E4
A3.74E4
A2.29E4
A5.92E4
A9.69E3
A9.44E4
A1.14E4
A5.60E4
File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P Noise:129
305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,516.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
A3.33E4
A3.49E4
A7.62E4
A9.74E3
A1.36E5
A7.25E4
A6.01E4
A7.74E4
File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P Noise:229
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,916.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
A6.52E5
A3.29E5
File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P Noise:497
317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1988.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
A8.58E5
A4.06E5
File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P
375.8364 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
19:09
19:43
20:19
21:23
22:29
23:39
24:07
24:42
25:19
26:06
26:27
19:00
20:00
21:00
22:00
23:00
24:00
25:00
26:00
Time


File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P Noise:127
319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,508.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
A6.03E4
A1.70E4
A1.20E4
A8.77E3
A4.56E3
File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P Noise:175
321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,700.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
A6.54E4
A8.80E4
A3.91E4
A1.49E4
A1.06E4
A1.78E4
File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P Noise:191
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,764.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
A2.07E6
A2.06E6
A1.15E6
A6.29E5
A2.29E5
File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P Noise:300
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1200.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
A3.67E6
A2.03E5
File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P Noise:162
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,648.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
A4.46E6
A2.56E5
20:00
21:00
22:00
23:00
24:00
25:00


File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P
303.9016 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
19:37 20:17 20:31 21:13 21:50 22:17 22:44 23:40 24:23 24:42 25:19 25:52 26:28
Time
File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P
315.9419 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
19:20 22:45 23:48 24:45 25:18 25:49
Time
File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P
319.8965 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
19:20 19:49 20:25 21:04 21:48 22:17 23:23 24:11 25:06 25:39 26:25
Time
File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P
331.9368 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
22:16 22:37
Time
File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P
292.9825 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
19:12 19:42 20:11 21:06 21:48 22:31 23:56 24:51 25:44 26:14
Tim
File:P004408 #1-3026 Acq:5-DEC-00 19:38:40 EI+ Voltage SIR 70P
330.9792 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-5 INJ. TIME = 19:38
19:35 20:17 20:51 21:19 22:07 22:48 23:51 24:35 25:10 25:55
Ti


Z
50
5
50
5
Channel I 330.9792 Peak top
Height .52 volts Span 200 ppm
System file name 08225
Data file name A:PD05002
Resolution 10000
Group number 1
Ionization mode EI+
Switching VOLTAGE
Ref. masses 292.9825, 330.9761
A 292.9825
B 303.9016
C 305.8987
D 315.9419
E 317.9389
F 319.8965
G 321.8936
H 327.8847
I 330.9792
J 330.9792
K 331.9368
L 333.9338
M 375.8364
Ref. mass 330.9761 Peak top
Height .22 volts Span 200 ppm



0.0576
0.0588
0.1164

DFS
12/8/00

TriMatrix, Inc.

TLI Project: **52366r1** Method 8290 PCDD/PCDF Analysis
Client Sample: **BASF-SMW-6** Analysis File: **T006**

Client Project:	BASF-Malcolm Pirnie				
Sample Matrix:	WATER	Date Received:	11/17/2000	Spike File:	SPMIT32
TLI ID:	274-99-2B	Date Extracted:	12/01/2000	ICal:	TF57140
		Date Analyzed:	12/05/2000	ConCal:	T005996
Sample Size:	1.080 L	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T005998	% Lipid:	n/a
GC Column:	DB-5	Analyst:	BWL	% Solids:	n/a

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Fla
2,3,7,8-TCDD	37.7			0.87	26:51	_
1,2,3,7,8-PeCDD	103			1.60	30:57	_
1,2,3,4,7,8-HxCDD	120			1.18	34:05	_
1,2,3,6,7,8-HxCDD	486			1.16	34:10	_
1,2,3,7,8,9-HxCDD	343			1.08	34:29	_
1,2,3,4,6,7,8-HpCDD	6480			1.00	37:36	_
1,2,3,4,6,7,8,9-OCDD	47180			0.84	41:31	E_
2,3,7,8-TCDF	807			0.89	26:09	_
1,2,3,7,8-PeCDF	482			1.55	29:56	_
2,3,4,7,8-PeCDF	335			1.60	30:37	_
1,2,3,4,7,8-HxCDF	947			1.27	33:21	_
1,2,3,6,7,8-HxCDF	252			1.23	33:27	_
2,3,4,6,7,8-HxCDF	135			1.27	33:57	_
1,2,3,7,8,9-HxCDF	62.6			1.21	34:47	_
1,2,3,4,6,7,8-HpCDF	808			1.03	36:30	_
1,2,3,4,7,8,9-HpCDF	167			0.93	38:08	_
1,2,3,4,6,7,8,9-OCDF	759			0.89	41:44	_

Totals	Conc. (pg/L)	Number	DL	EMPC	Fla
Total TCDD	280	3		352	_
Total PeCDD	317	3		674	_
Total HxCDD	6090	7			_
Total HpCDD	13740	2			_
Total TCDF	3040	10		6260	X
Total PeCDF	1950	8		3270	X
Total HxCDF	1800	6		2570	X
Total HpCDF	1610	3		1680	_

Triangle Laboratories, Inc.
801 Capitola Drive • Durham, North Carolina 27713
Phone: (919) 544-5729 • Fax: (919) 544-5491

Printed: 17:40 12/1

TLI Project: **52366r1** Method 8290 PCDD/PCDF Analysis
Client Sample: **BASF-SMW-6** Analysis File: **T006**

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Fla
$^{13}C_{12}$-2,3,7,8-TCDF	84.6	4.57	40%-130%	0.74	26:08	V_
$^{13}C_{12}$-2,3,7,8-TCDD	96.2	5.20	40%-130%	0.80	26:48	V_
$^{13}C_{12}$-1,2,3,7,8-PeCDF	85.6	4.62	40%-130%	1.47	29:56	V_
$^{13}C_{12}$-1,2,3,7,8-PeCDD	103	5.54	40%-130%	1.48	30:56	V_
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	72.4	3.91	40%-130%	0.51	33:26	V_
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	78.7	4.25	40%-130%	1.13	34:09	V_
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	72.1	3.89	25%-130%	0.42	36:29	V_
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	117	6.30	25%-130%	1.20	37:35	V_
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	147	3.96	25%-130%	1.02	41:31	V_

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Fla
$^{13}C_{12}$-2,3,4,7,8-PeCDF	77.7	4.20	40%-130%	1.47	30:36	V_
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	76.3	4.12	40%-130%	0.50	33:20	V_
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	78.1	4.22	40%-130%	1.30	34:03	V_
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	76.1	4.11	25%-130%	0.41	38:08	V_

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Fla
$^{37}Cl_4$-2,3,7,8-TCDD	167	90.0	40%-130%	26:50	_

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Fla
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	73.9	3.99	40%-130%	0.51	34:45	V_
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	60.8	3.28	40%-130%	0.51	33:57	V_

Recovery Standards	Ratio	RT	Fla
$^{13}C_{12}$-1,2,3,4-TCDD	0.80	26:39	_
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.21	34:29	_

Data Reviewer: JCH 12/13/2000

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Printed: 17:40 12/1

TriMatrix, Inc.

TLI Project: **52366r1** — Toxicity Equivalents Re
Client Sample: **BASF-SMW-6** — Analysis File: **T006**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/00**	Spike File:	**SPMIT32**
TLI ID:	**274-99-2B**	Date Extracted:	**12/01/00**	ICal:	**TF57140**
		Date Analyzed:	**12/05/00**	ConCal:	**T005996**
Sample Size:	**1.080 L**	Dilution Factor:	**1**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005998**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**BWL**	% Solids:	**n/a**

Analytes	Conc. (pg/L)		TEF		Equivalent
2,3,7,8-TCDD	37.7	x	1.	=	37.7
1,2,3,7,8-PeCDD	103	x	0.5	=	51.5
1,2,3,4,7,8-HxCDD	120	x	0.1	=	12.0
1,2,3,6,7,8-HxCDD	486	x	0.1	=	48.6
1,2,3,7,8,9-HxCDD	343	x	0.1	=	34.3
1,2,3,4,6,7,8-HpCDD	6480	x	0.01	=	64.80
1,2,3,4,6,7,8,9-OCDD	47180	x	0.001	=	47.180
TOTAL PCDD					296.1
2,3,7,8-TCDF	748	x	0.1	=	74.8
1,2,3,7,8-PeCDF	482	x	0.05	=	24.1
2,3,4,7,8-PeCDF	335	x	0.5	=	168
1,2,3,4,7,8-HxCDF	947	x	0.1	=	94.7
1,2,3,6,7,8-HxCDF	252	x	0.1	=	25.2
2,3,4,6,7,8-HxCDF	135	x	0.1	=	13.5
1,2,3,7,8,9-HxCDF	62.6	x	0.1	=	6.26
1,2,3,4,6,7,8-HpCDF	808	x	0.01	=	8.08
1,2,3,4,7,8,9-HpCDF	167	x	0.01	=	1.67
1,2,3,4,6,7,8,9-OCDF	759	x	0.001	=	0.759
TOTAL PCDF					417

Total EPA TEFs, 1989a: 713 pg/L

GRY_TEF v1.08. MI

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Initial ....Date...

Data Review By: JCH 12/13/00

Calculated Noise Height: 0.38

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 T006000B.dbf
12/13/2000 Matched GC Peaks / Ratio / Ret. Time

Compound/
M_2.... 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					0.880-1.070			
304-306		DC	NL		Height	0.16	0.10	0.06					
				23:36	0.83	3.68	1.67	2.01	0.903				
				23:53	0.84	2.28	1.04	1.24	0.914				
	M			24:14	0.72	4.10	1.72	2.38	0.927				Q
				24:35	0.86	7.11	3.28	3.83	0.941				
				24:51	0.86	7.23	3.34	3.89	0.951				
				25:09	0.78	4.52	1.98	2.54	0.962				
	M			25:28	0.84	6.52	2.98	3.54	0.974				
	AX		X	25:41	RO 0.79	15.27	6.74	8.53	0.983				
	M			25:46	0.83	22.90	10.40	12.50	0.986	1278-TCDF		AN	
	A			25:59	RO 0.93	1.77	0.93	1.00	0.994				
				26:09	0.89	22.05	10.41	11.64	1.001	2378-TCDF		AN	
				26:34	0.78	3.26	1.43	1.83	1.017				
	MX		X	26:56	RO 0.78	6.50	2.85	3.65	1.031				
	X		X	27:10	RO 0.81	29.57	13.25	16.32	1.043				
	X		X	27:29	RO 0.83	31.40	14.21	17.19	1.052				
				27:47	RO 1.52	3.58	3.07	2.02	1.063				
		DC	WH	28:05	0.74	12.41			1.075				
304-306			16	Peaks		171.74							
13C12-TCDF					0.65-0.89					0.962-1.038			
316-318		DC	NL		Height	0.26	0.15	0.11					
		DC	WL	24:08	RO 0.58	1.45			0.923				
				25:53	RO 1.74	0.55	0.54	0.31	0.990				
				26:08	0.74	49.49	20.99	28.50	1.000	13C12-2378-TCDF		ISO	
					Height	13.83	6.35	7.48					
				26:46	RO 0.62	1.95	0.85	1.37	1.024				
316-318			3	Peaks		51.99							

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

TCDD					0.65-0.89					0.904-1.042			
320-322		DC	NL		Height	0.10	0.05	0.05					
	M			24:26	RO 0.55	1.66	0.72	1.31	0.912				
		DC	SN	24:36	RO 4.75	0.07			0.918				
				24:47	0.89	1.91	0.90	1.01	0.925	1379-TCDD		AN	
		DC	SN	25:13	RO 0.26	0.44			0.941				
				25:43	0.89	3.33	1.57	1.76	0.960				
	D	D	SN	26:20	RO 0.55	0.59			0.993				
	M			26:51	0.87	0.36	0.40	0.46	1.002	2378-TCDD		AN	
		DC	SN	26:58	RO 1.21	0.42			1.006				
	D	D	SN	27:08	0.65	0.76			1.012				
		DC	SN	27:21	0.84	0.46			1.021				

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Compound/ M_Z....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flag
	DC	WH		28:03	RO	1.41	0.48			1.047			
320-322		4	Peaks				7.76						
37Cl-TCDD										0.925-1.075			
328	DC	NL			Height		0.09	0.09					
	DC	WL		24:42			4.61			0.922			
	DC	WL		24:47			4.64			0.925			
				25:06			1.10	1.10		0.937			
				25:15			0.25	0.25		0.942			
				25:31			310.65	310.65		0.952			
				25:57			0.76	0.76		0.968			
				26:50			67.73	67.73		1.001	37Cl-TCDD		CLS
				27:12			4.37	4.37		1.015			
				28:06			4.78	4.78		1.049			
328		7	Peaks				389.64						
13C12-TCDD					0.65-0.89					0.925-1.075			
332-334	DC	NL			Height		0.23	0.16	0.07				
				26:39		0.80	845.32	374.63	470.69	0.994	13C12-1234-TCDD		RS1
				26:48		0.80	46.20	20.47	25.73	1.000	13C12-2378-TCDD		IS1
					Height		13.43	5.94	7.49				
332-334		2	Peaks				891.52						

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

PeCDF					1.32-1.78					0.930-1.060			
340-342	DC	NL			Height		0.12	0.06	0.06				
M				28:01		1.36	2.17	1.25	0.92	0.936			
	DC	SN		28:51	RO	0.53	0.13			0.964			
				29:07		1.55	10.26	6.23	4.03	0.973			
				29:22		1.32	1.65	0.94	0.71	0.981			
				29:34	RO	1.20	1.20	0.73	0.61	0.988			
				29:41		1.71	1.41	0.89	0.52	0.992			
A				29:52		1.42	2.20	1.29	0.91	0.998			
AN				29:56		1.55	11.11	6.76	4.35	1.000	12378-PeCDF		AN
NMX		X		29:59	RO	1.57	19.81	12.10	7.71	1.002			
				30:14		1.65	8.74	5.44	3.30	1.010			
				30:37		1.60	7.83	4.82	3.01	1.023	23478-PeCDF		AN
				30:50	RO	1.27	3.21	1.95	1.54	1.030			
MX		X		31:19	RO	1.52	6.35	3.83	2.52	1.046			
D	D	SN		31:35	RO	1.03	0.61			1.055			
	DC	WH		31:50	RO	0.92	0.56			1.063			
340-342		12	Peaks				75.94						
13C12-PeCDF					1.32-1.78					0.866-1.134			
352-354	DC	NL			Height		0.14	0.06	0.08				
				27:49	RO	0.48	0.94	0.57	1.19	0.929			
	DC	SN		27:59	RO	2.05	0.48			0.935			
				28:24	RO	0.83	0.39	0.24	0.29	0.949			
	DC	SN		28:33	RO	1.04	0.69			0.954			
	DC	SN		28:57	RO	2.38	0.43			0.967			
				29:07	RO	0.33	0.31	0.19	0.23	0.973			

Compound/ M_I....	QC	Log	Cmit	Why	RT	OK	Ratio	Total Area/Ht	Area/Ht Peak1	Area/Ht Peak2	Rel RT	Compound Name	ID	Flags
	DC	SN			29:37		1.67	0.40			0.989			
					29:56		1.47	46.83	27.87	18.96	1.000	13C12-PeCDF 123	IS2	
						Height		14.52	8.55	5.97				
	DC	SN			30:03	RO	3.20	0.26			1.004			
	DC	SN			30:11	RO	1.00	0.54			1.008			
					30:36		1.47	42.12	25.07	17.05	1.022	13C12-PeCDF 234	SUR1	
	DC	SN			31:11	RO	0.42	0.08			1.042			
					31:34	RO	1.02	1.15	0.46	0.45	1.055			
	DC	SN			31:46	RO	3.11	0.23			1.061			
352-354			6	Peaks				91.74						
---------- Above: PeCDF / PeCDD Follows ----------														
PeCDD						1.32-1.78					0.938-1.020			
356-358	DC	NL				Height		0.10	0.05	0.05				
D	D	SN			29:12	RO	0.17	7.21			0.944			
	DC	SN			29:23	RO	0.01	0.13			0.950			
					29:41		1.46	1.50	0.89	0.61	0.960			
					29:55	RO	1.06	1.89	1.15	1.08	0.967			
					30:02	RO	1.27	2.45	1.49	1.17	0.971			
					30:12	RO	1.22	2.16	1.31	1.07	0.976			
					30:28		1.32	2.41	1.37	1.04	0.985			
D	D	SN			30:40		1.38	0.50			0.991			
D	D	SN			30:47	RO	0.50	0.43			0.995			
					30:57		1.60	1.87	1.15	0.72	1.001	12378-PeCDD	AN	
D	D	SN			31:06	RO	0.30	0.87			1.005			
	DC	WH			31:38	RO	0.70	0.12			1.023			
356-358			6	Peaks				12.28						
13C12-PeCDD						1.32-1.78					0.871-1.129			
368-370	DC	NL				Height		0.09	0.05	0.04				
	DC	SN			29:48	RO	0.71	0.08			0.963			
	DC	SN			29:53	RO	2.00	0.23			0.966			
	DC	SN			30:40	RO	0.41	0.18			0.991			
					30:56		1.48	31.96	19.06	12.90	1.000	13C12-PeCDD 123	IS3	
						Height		11.08	6.54	4.54				
	DC	SN			31:17	RO	4.44	0.23			1.011			
					31:46	RO	0.42	0.41	0.25	0.60	1.027			
368-370			2	Peaks				32.37						
---------- Above: PeCDD / HxCDF Follows ----------														
HxCDF						1.05-1.43					0.963-1.047			
374-376	DC	NL				Height		0.12	0.06	0.06				
					32:23	RO	1.52	1.08	0.73	0.48	0.969			
					32:30		1.39	5.54	3.22	2.32	0.972			
X		X			32:58	RO	1.22	8.44	4.63	3.81	0.986			
X		X			33:12	RO	0.96	0.49	0.27	0.28	0.993			J
					33:21		1.27	18.15	10.15	8.00	0.998	123478-HxCDF	AN	
					33:27		1.23	5.05	2.79	2.26	1.000	123678-HxCDF	AN	
X		X			33:37	RO	1.12	3.96	2.09	1.87	1.005			
	DC	SN			33:48	RO	0.85	0.40			1.011			

Compound/ M_I....	QC.Log	Cmit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
				33:57		1.27	2.45	1.37	1.08	1.015	234678-HxCDF	AN	
	DC	SN		34:04	RO	0.38	0.05			1.019			
	DC	SN		34:08	RO	0.67	0.07			1.021			
	DC	SN		34:14	RO	3.00	0.07			1.024			
	DC	SN		34:19	RO	0.63	0.09			1.026			
	DC	SN		34:29		1.10	0.44			1.031			
M				34:47		1.21	0.93	0.51	0.42	1.040	123789-HxCDF	AN	
M				34:52		1.30	1.68	0.95	0.73	1.043			
	DC	WH		35:18		1.13	1.90			1.056			
374-376			10	Peaks			47.77						
13C12-HxCDF				0.43-0.59					0.880-1.120				
384-386	DC	NL				Height	0.14	0.07	0.07				
	DC	SN		32:30	RO	0.40	0.18			0.972			
	DC	SN		32:36	RO	1.00	0.08			0.975			
	DC	SN		32:42		0.56	0.14			0.978			
				33:20		0.50	35.92	12.05	23.87	0.997	13C12-HxCDF 478	SUR2	
				33:26		0.51	34.58	11.71	22.87	1.000	13C12-HxCDF 678	IS4	
						Height	10.92	3.62	7.30				
				33:57		0.51	26.47	8.81	17.58	1.015	13C12-HxCDF 234	ALT2	
	DC	SN		34:19	RO	1.38	0.12			1.026			
				34:28	RO	0.74	0.92	0.31	0.42	1.031			
				34:45		0.51	23.64	8.01	15.63	1.039	13C12-HxCDF 789	ALT1	
	DC	SN		34:53		0.50	0.12			1.043			
384-386			5	Peaks			121.53						

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

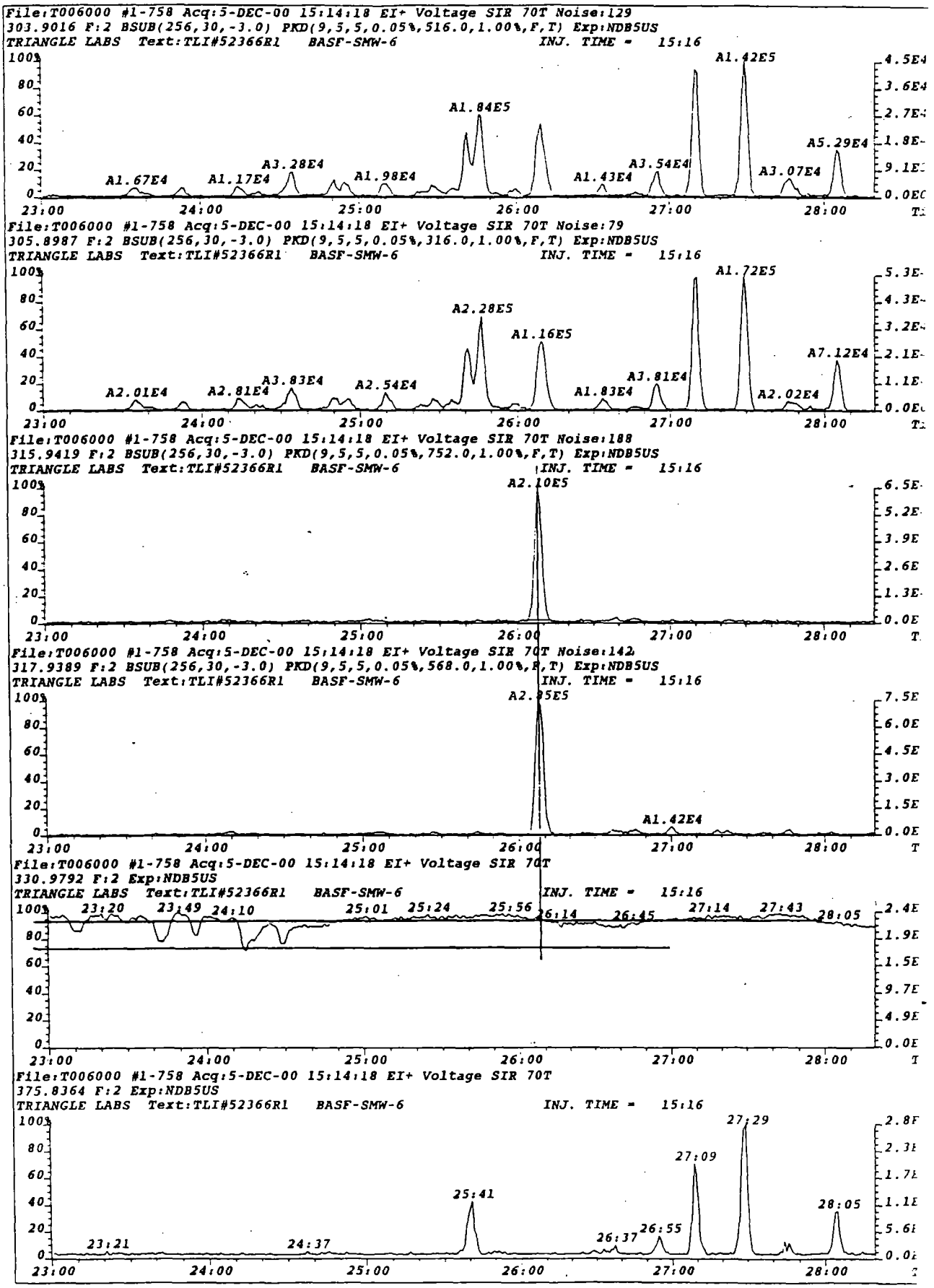
HxCDD				1.05-1.43					0.957-1.013				
390-392	DC	NL				Height	0.13	0.05	0.08				
				32:52		1.19	22.63	12.31	10.32	0.962			
				33:18		1.28	5.73	3.22	2.51	0.975			
				33:32		1.25	37.39	20.80	16.59	0.982			
				33:42		1.42	0.80	0.47	0.33	0.987			
	DC	SN		33:57		1.07	0.29			0.994			
				34:05		1.18	1.55	0.84	0.71	0.998	123478-HxCDD	AN	
				34:10		1.16	6.27	3.37	2.90	1.000	123678-HxCDD	AN	
M				34:29		1.08	4.47	2.32	2.15	1.010	123789-HxCDD	AN	
	DC	WH		34:37	RO	0.86	0.11			1.014			
390-392			7	Peaks			78.84						
13C12-HxCDD				1.05-1.43					0.971-1.029				
402-404	DC	NL				Height	0.19	0.11	0.08				
				33:30	RO	4.31	0.36	0.17	0.16	0.981			
				34:03		1.30	24.16	13.66	10.50	0.997	13C12-HxCDD 478	SUR3	
				34:09		1.13	23.52	12.47	11.05	1.000	13C12-HxCDD 678	IS5	
						Height	7.65	4.01	3.64				
				34:29		1.21	609.26	333.37	275.89	1.010	13C12-HxCDD 789	RS2	
				34:44	RO	3.28	0.40	0.59	0.18	1.017			
402-404			5	Peaks			657.70						

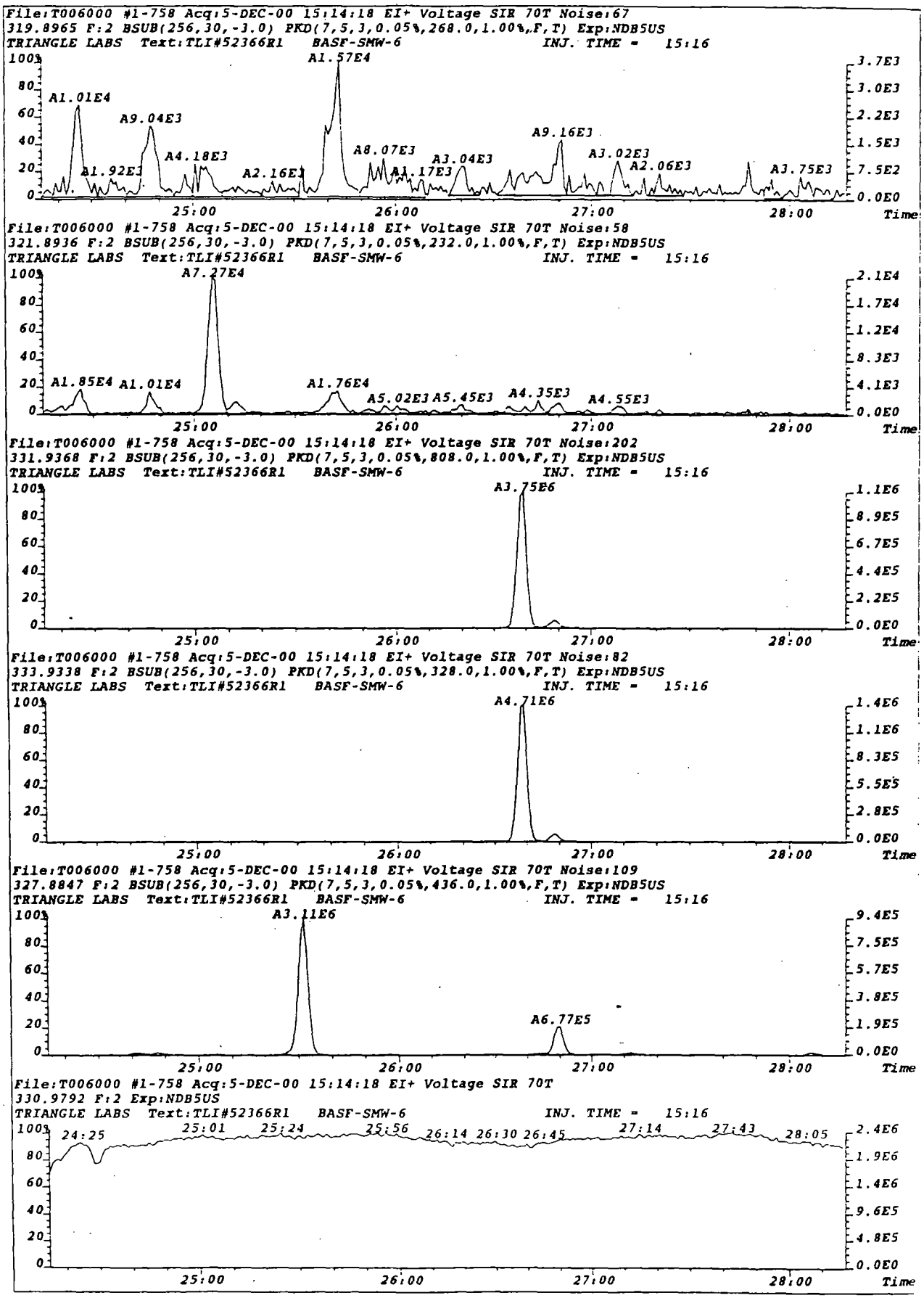
Compound/ M_2....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF						0.88-1.20				0.995-1.050			
408-410	DC	NL				Height	0.14	0.08	0.06				
				36:30		1.03	12.60	6.39	6.21	1.000	1234678-HpCDF		AN
				36:46	RO	1.34	0.90	0.59	0.44	1.008			
				36:56		1.02	8.84	4.46	4.38	1.012			
				38:08		0.93	2.01	0.97	1.04	1.045	1234789-HpCDF		AN
	DC	WH		38:40	RO	1.65	0.63			1.060			
408-410			4	Peaks			24.35						
13C12-HpCDF						0.37-0.51				0.945-1.110			
418-420	DC	NL				Height	0.15	0.08	0.07				
				36:29		0.42	23.01	6.33	16.18	1.000	13C12-HpCDF 678		IS6
						Height	6.68	1.94	4.74				
				38:08		0.41	18.90	5.54	13.36	1.045	13C12-HpCDF 789		SUR4
	DC	SN		38:21	RO	0.82	0.46			1.051			
	DC	SN		38:30	RO	1.58	0.17			1.055			
	DC	SN		38:41	RO	0.95	1.24			1.060			
418-420			2	Peaks			41.91						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD						0.88-1.20				0.974-1.004			
424-426	DC	NL				Height	0.23	0.11	0.12				
				36:48		1.01	110.41	55.51	54.90	0.979			
	DC	SN		37:02	RO	2.50	0.08			0.985			
				37:36		1.00	98.52	49.30	49.22	1.000	1234678-HpCDD		AN
424-426			2	Peaks			208.93						
13C12-HpCDD						0.88-1.20				0.973-1.027			
436-438	DC	NL				Height	0.31	0.20	0.11				
				36:44	RO	2.18	1.00	1.07	0.49	0.977			
				37:35		1.20	32.94	18.00	14.94	1.000	13C12-HpCDD 678		IS7
						Height	7.95	4.33	3.62				
436-438			2	Peaks			33.94						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF						0.76-1.02				0.904-1.096			
442-444	DC	NL				Height	0.10	0.05	0.05				
	DC	SN		39:11	RO	2.67	0.17			0.944			
	DC	SN		39:18	RO	1.25	0.08			0.947			
	DC	SN		39:31	RO	0.70	0.15			0.952			
	DC	SN		39:41		0.76	0.44			0.956			
	DC	SN		40:22	RO	1.75	0.30			0.972			
	DC	SN		40:30	RO	1.29	0.26			0.976			
	DC	SN		40:38	RO	1.78	0.17			0.979			
	DC	SN		40:56	RO	1.06	0.30			0.986			
				41:44		0.89	7.60	3.58	4.02	1.005	OCDF		AN
	DC	SN		41:59	RO	0.75	0.06			1.011			
	DC	SN		42:33	RO	1.08	0.23			1.025			

Compound/ M_Z....	QC.Log	Cmit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
	DC	SN		42:39	RO	0.25	0.13			1.027			
	DC	SN		42:53	RO	2.14	0.13			1.033			
				43:05	RO	1.77	0.57	0.53	0.30	1.038			
	DC	SN		43:13	RO	1.29	0.13			1.043			
	DC	SN		43:29		0.93	0.29			1.047			
				43:39		0.31	1.25	0.56	0.69	1.051			
	DC	SN		43:51	RO	0.21	0.08			1.056			
	DC	SN		43:57	RO	1.80	0.19			1.059			
442-444			3 Peaks				9.42						
OCDD						0.76-1.02				0.904-1.096			
458-460	DC	NL				Height	0.10	0.05	0.05				
				41:31		0.84	392.61	179.37	213.24	1.000	OCDD	AN	E
	DC	SN		41:52	RO	1.56	0.17			1.008			
458-460			1 Peak				392.61						
13C12-OCDD						0.76-1.02				0.996-1.004			
470-472	DC	NL				Height	0.18	0.11	0.07				
				41:31		1.02	33.72	17.05	16.67	1.000	13C12-OCDD	ISS	
						Height	6.44	3.07	3.37				
470-472			1 Peak				33.72						

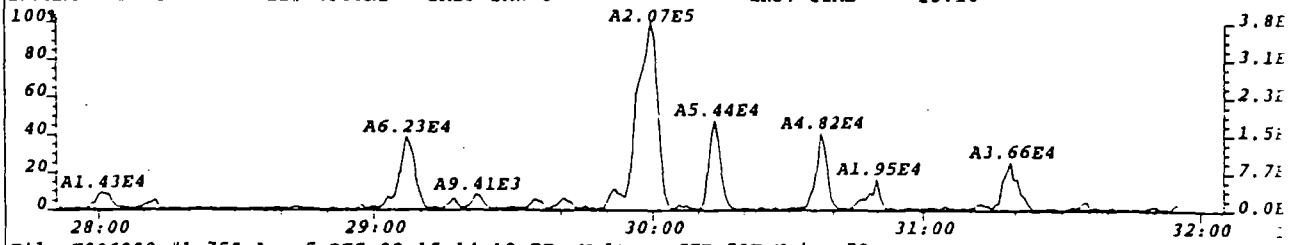
Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside 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 ***

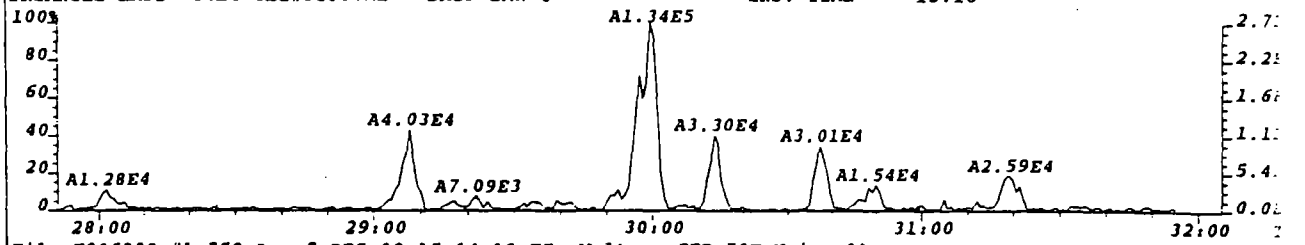

File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:129
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,516.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A1.67E4
A1.17E4
A3.28E4
A1.98E4
A1.84E5
A1.43E4
A3.54E4
A1.42E5
A3.07E4
A5.29E4
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:79
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A2.01E4
A2.81E4
A3.83E4
A2.54E4
A2.28E5
A1.16E5
A1.83E4
A3.81E4
A1.72E5
A2.02E4
A7.12E4
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:188
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,752.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A2.10E5
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:142
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,568.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A2.35E5
A1.42E4
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
23:21
24:37
25:41
26:37
26:55
27:09
27:29
28:05


File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:67
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A1.01E4
A9.04E3
A4.18E3
A1.92E3
A2.16E3
A1.57E4
A8.07E3
A1.17E3
A3.04E3
A9.16E3
A3.02E3
A2.06E3
A3.75E3
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:58
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A7.27E4
A1.85E4
A1.01E4
A1.76E4
A5.02E3
A5.45E3
A4.35E3
A4.55E3
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:202
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,808.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A3.75E6
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:82
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A4.71E6
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:109
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,436.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A3.11E6
A6.77E5
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
24:25
25:01
25:24
25:56
26:14
26:30
26:45
27:14
27:43
28:05
25:00
26:00
27:00
28:00
Time

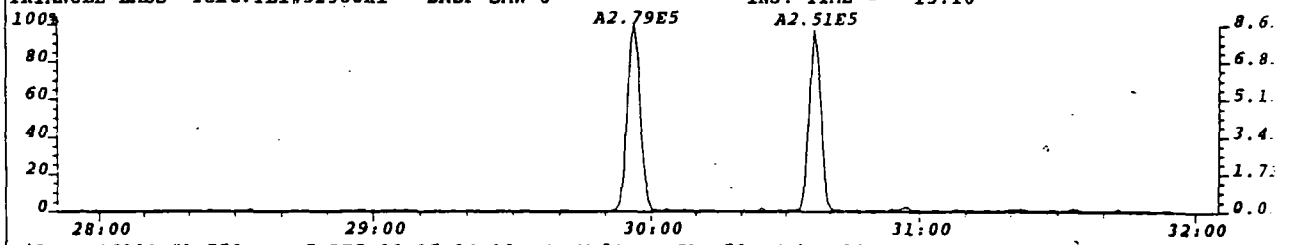
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:69
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16



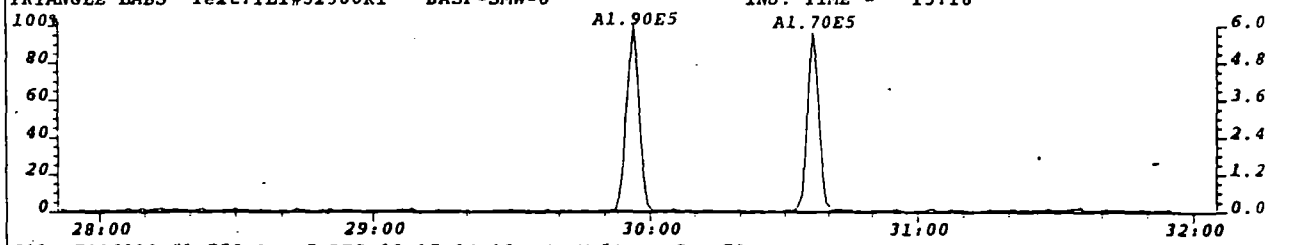
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:79
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16



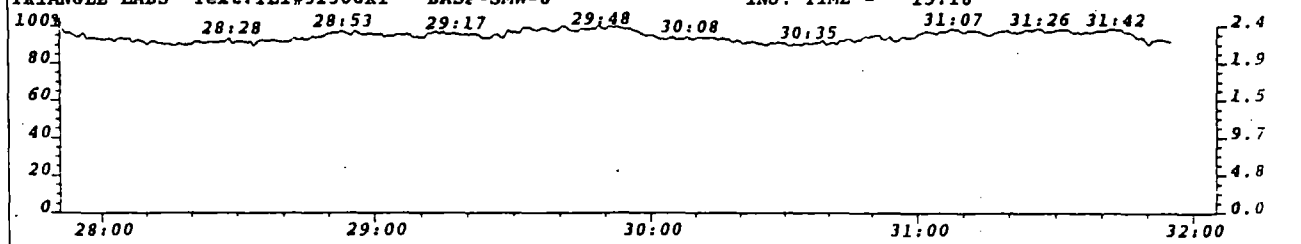
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:80
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,320.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16



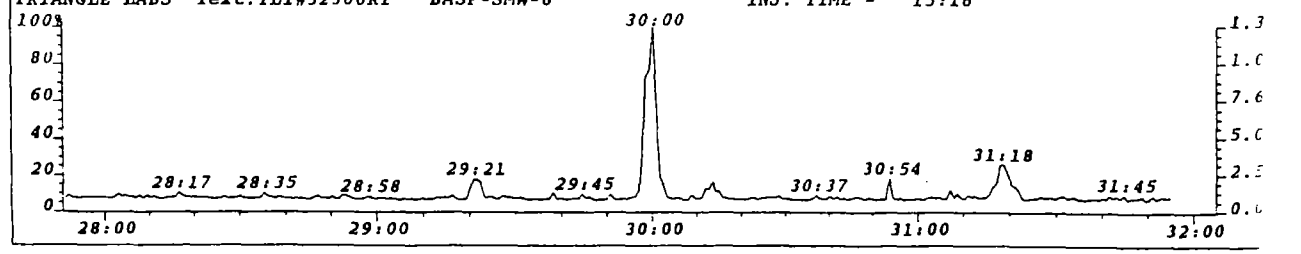
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:100
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,400.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16

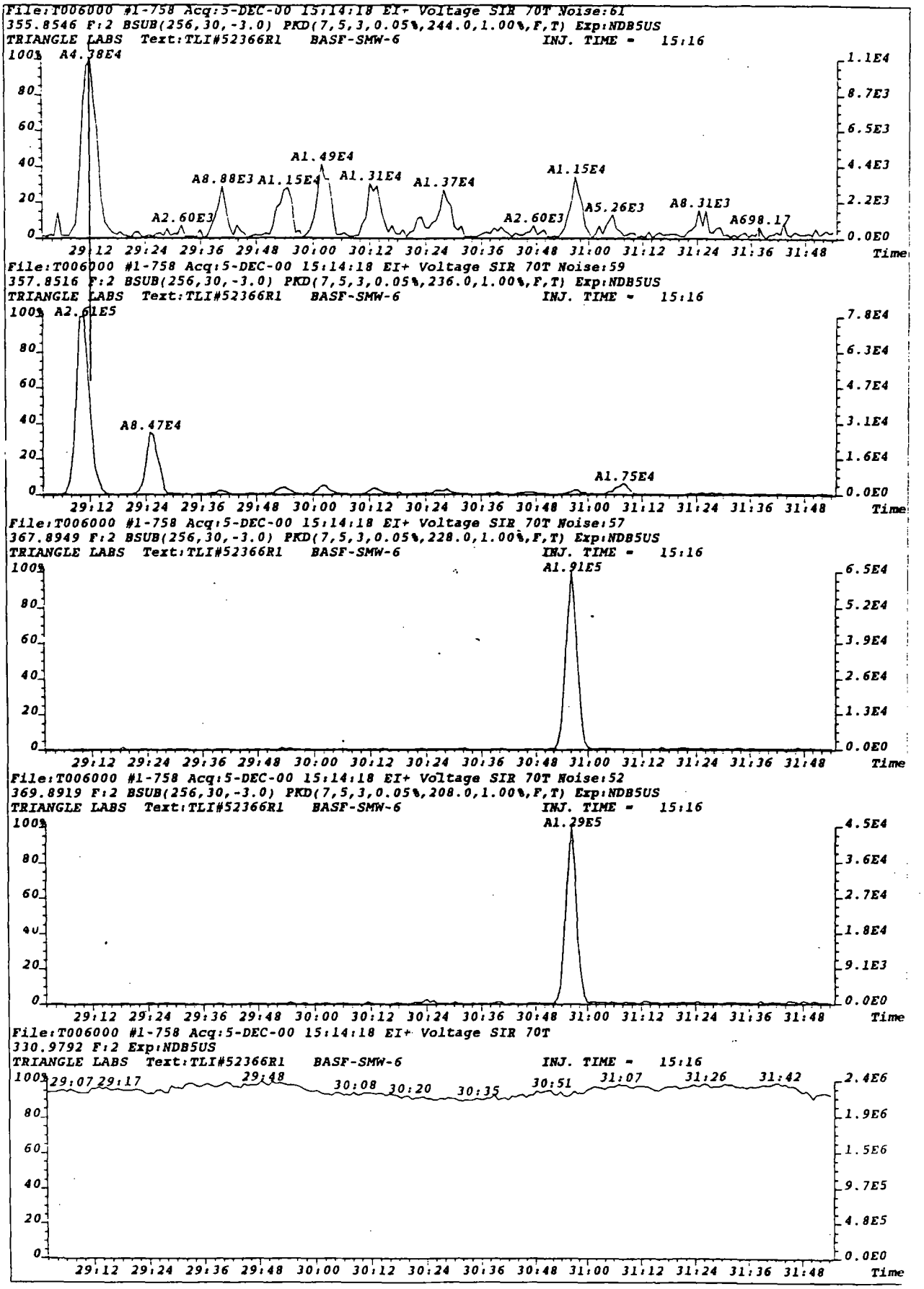


File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16

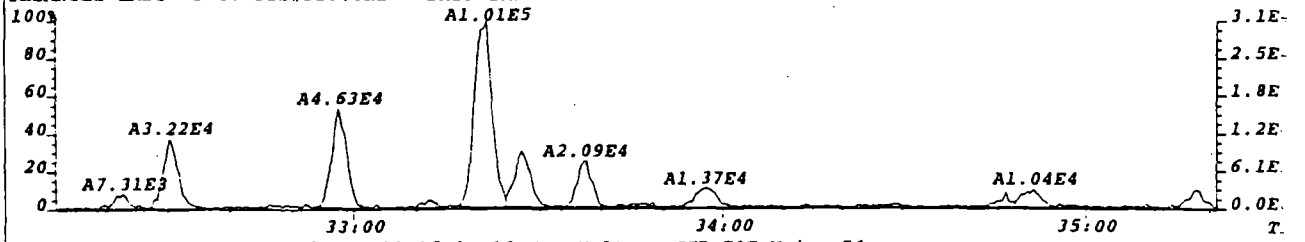


File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16

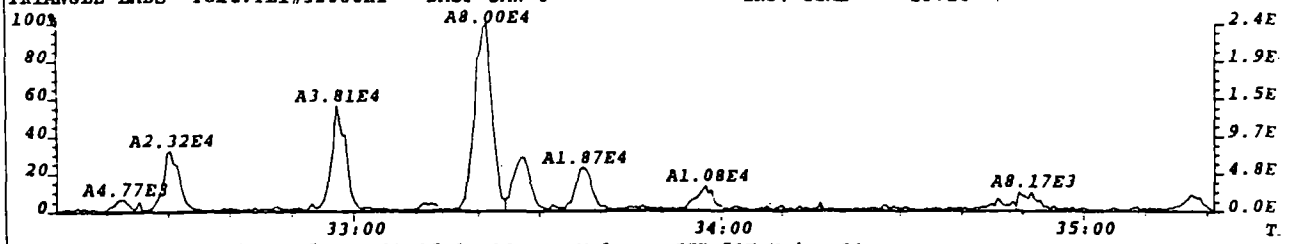



File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:61
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,244.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A4.38E4
A2.60E3
A8.88E3
A1.15E4
A1.49E4
A1.31E4
A1.37E4
A2.60E3
A1.15E4
A5.26E3
A8.31E3
A698.17
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:59
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,236.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A2.61E5
A8.47E4
A1.75E4
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:57
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,228.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A1.91E5
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:52
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,208.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A1.29E5
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
Time

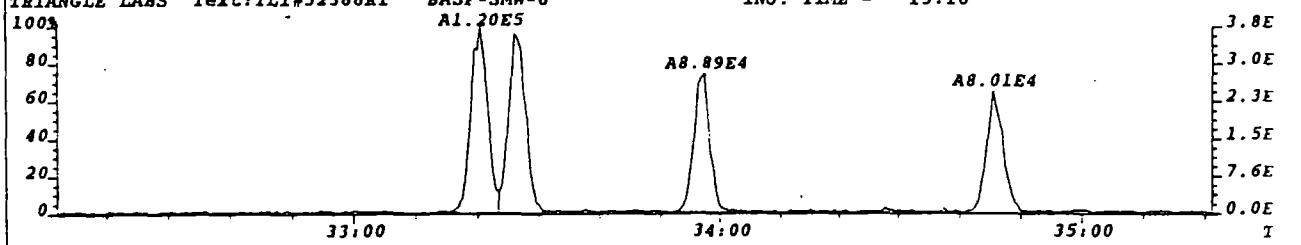
File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:73
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,292.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16



File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:76
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,304.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16



File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:84
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,336.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16



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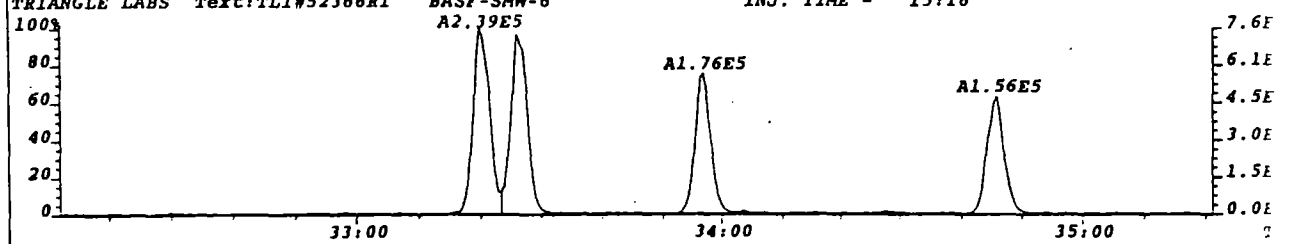
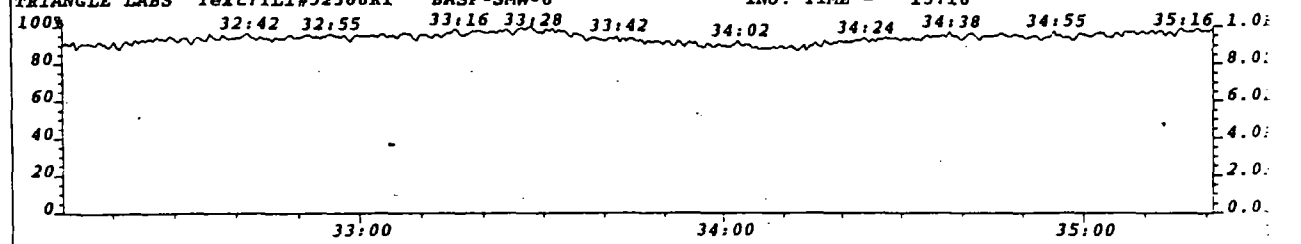
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,368.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16



File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16



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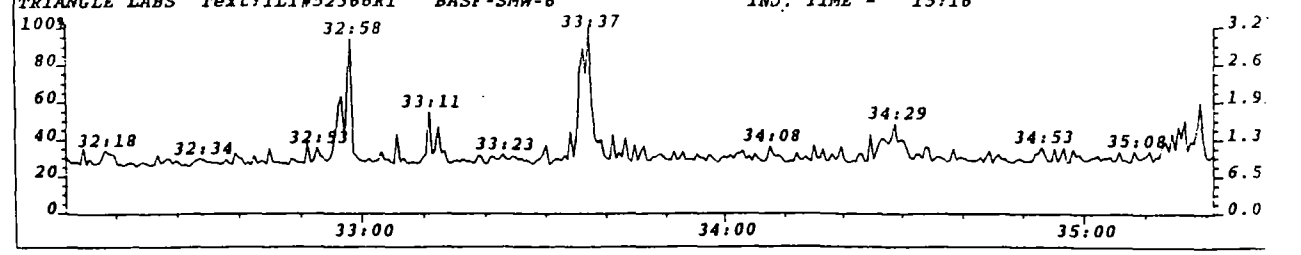
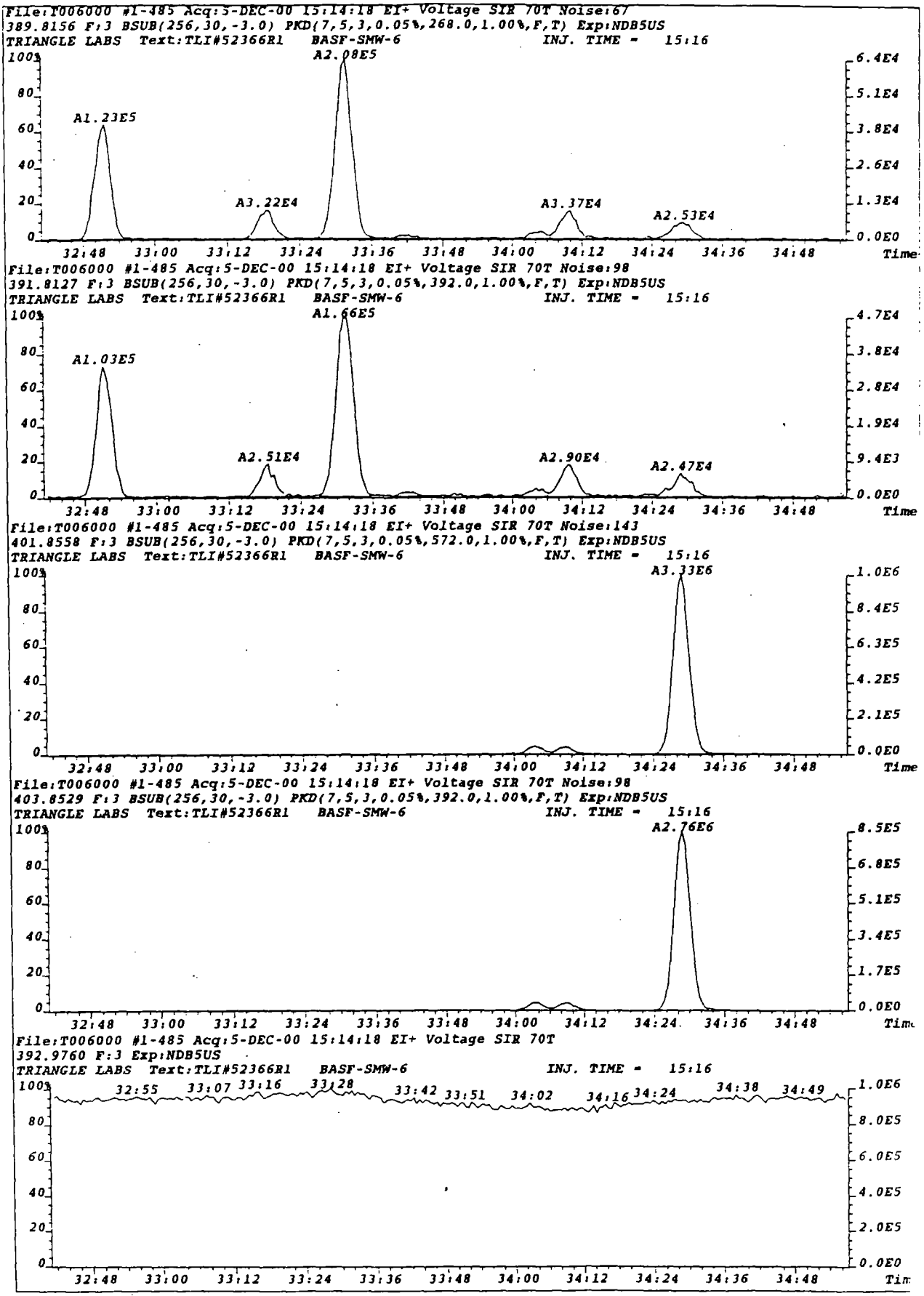
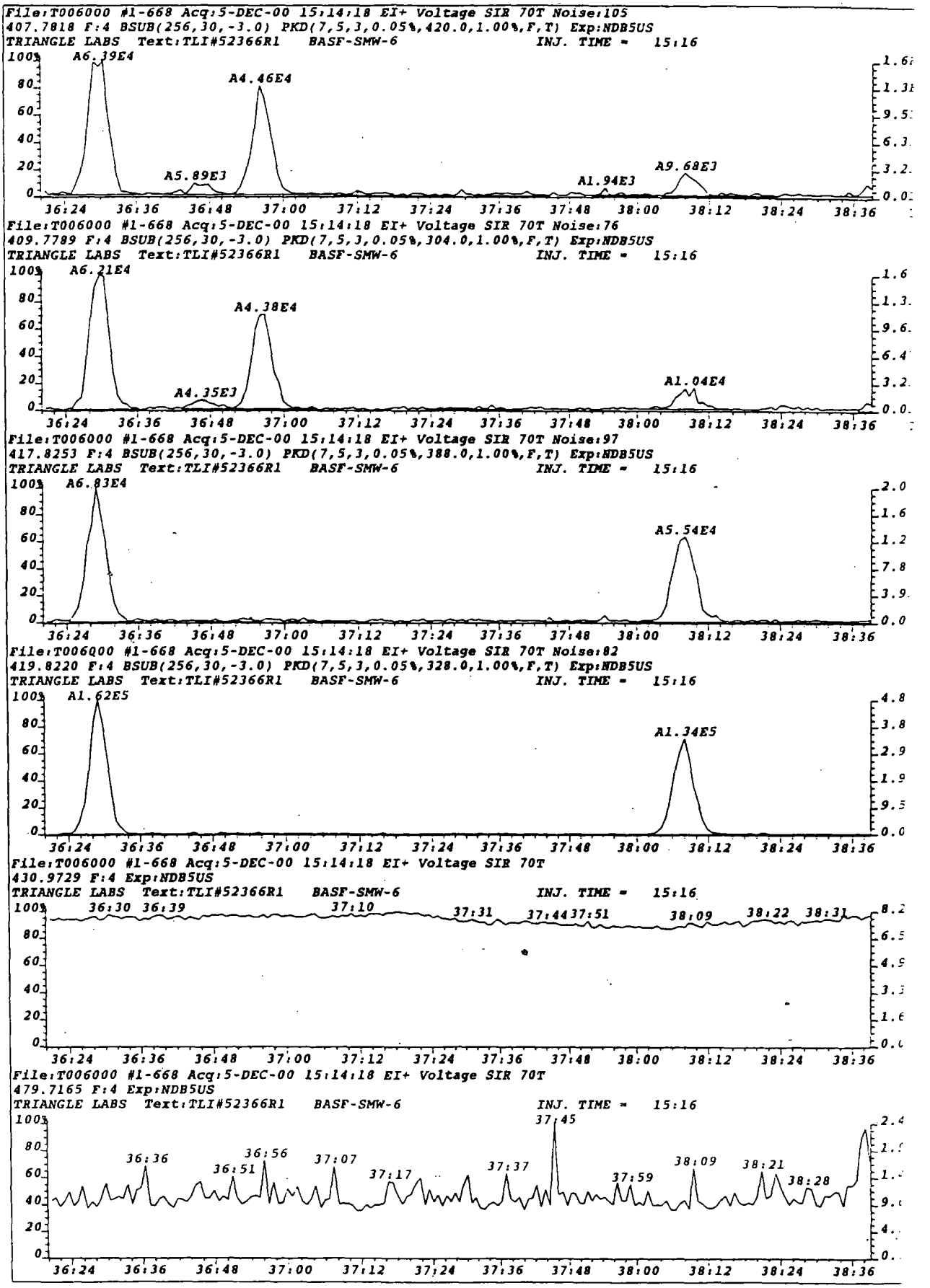
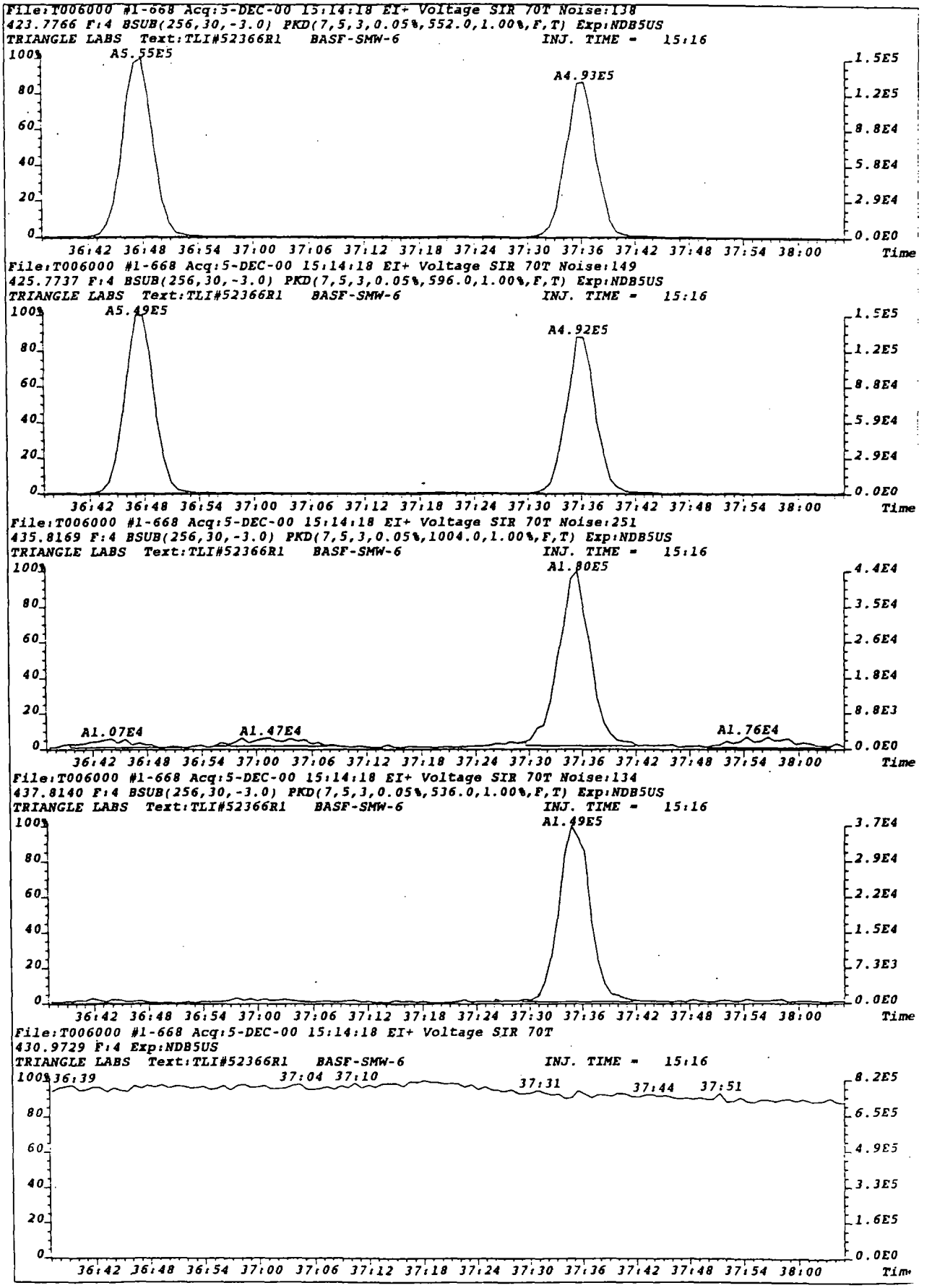
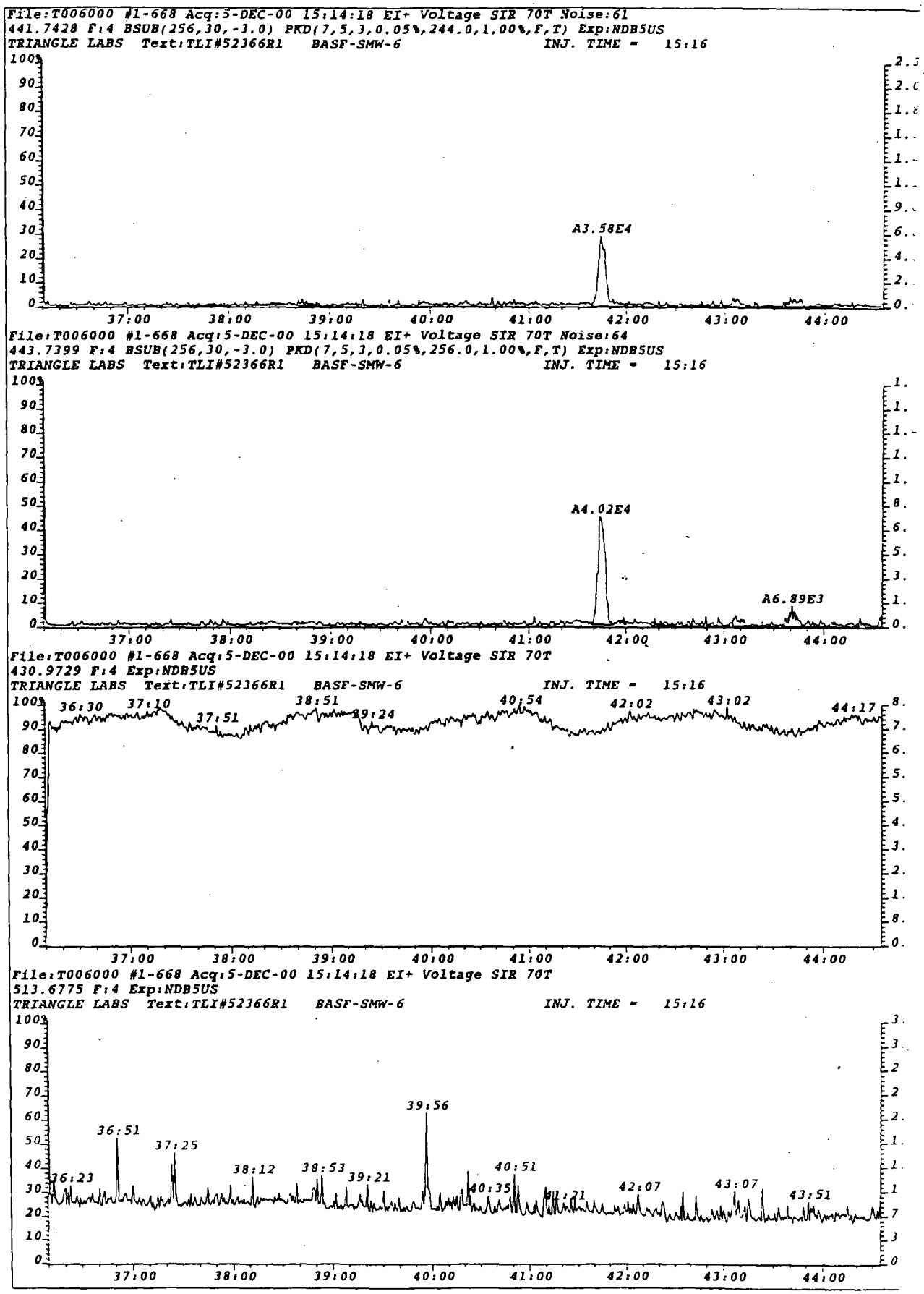
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16



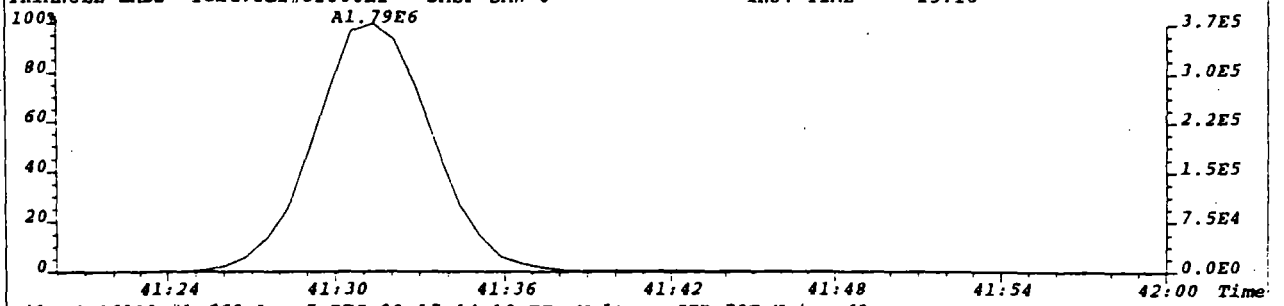

File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:67
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A1.23E5
A2.08E5
A3.22E4
A3.37E4
A2.53E4
File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:98
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,392.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A1.03E5
A1.66E5
A2.51E4
A2.90E4
A2.47E4
File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:143
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,572.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A3.33E6
File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:98
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,392.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A2.76E6
File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48
Time


File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:105
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,420.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A6.39E4
A4.46E4
A5.89E3
A1.94E3
A9.68E3
File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:76
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,304.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A6.21E4
A4.38E4
A4.35E3
A1.04E4
File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:97
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A6.83E4
A5.54E4
File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:82
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A1.62E5
A1.34E5
File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16

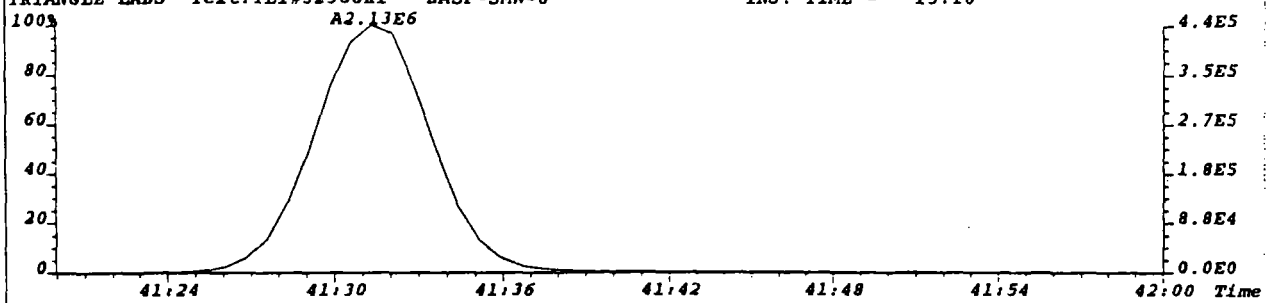

File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:138
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,552.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A5.55E5
A4.93E5
File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:149
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,596.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A5.49E5
A4.92E5
File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:251
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1004.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A1.07E4
A1.47E4
A1.76E4
File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:134
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,536.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A1.49E5
File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
36:39
37:04 37:10
37:31
37:44
37:51
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00
Time


File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:61
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,244.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A3.58E4
File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:64
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
A4.02E4
A6.89E3
File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
36:30
37:10
37:51
38:51
39:24
40:54
42:02
43:02
44:17
File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16
36:23
36:51
37:25
38:12
38:53
39:21
39:56
40:35
40:51
42:07
43:07
43:51
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00

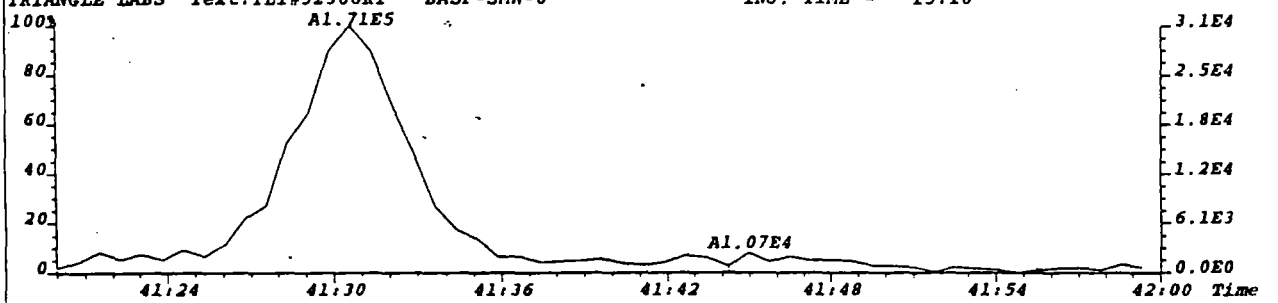
File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:57
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,228.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16



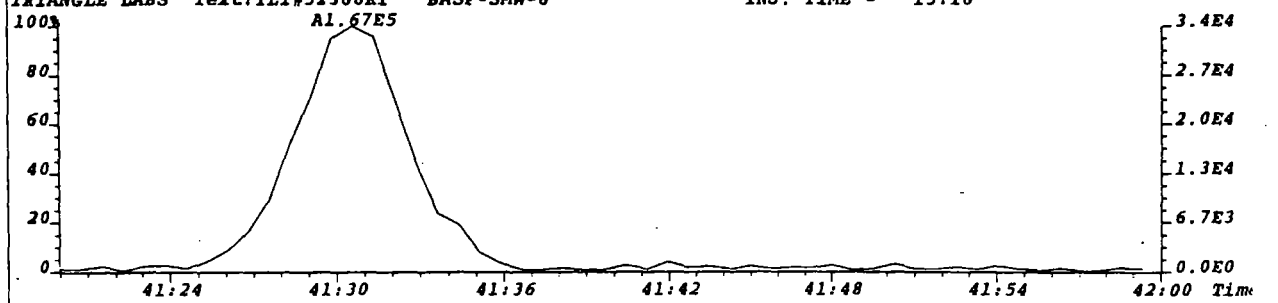
File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:63
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16



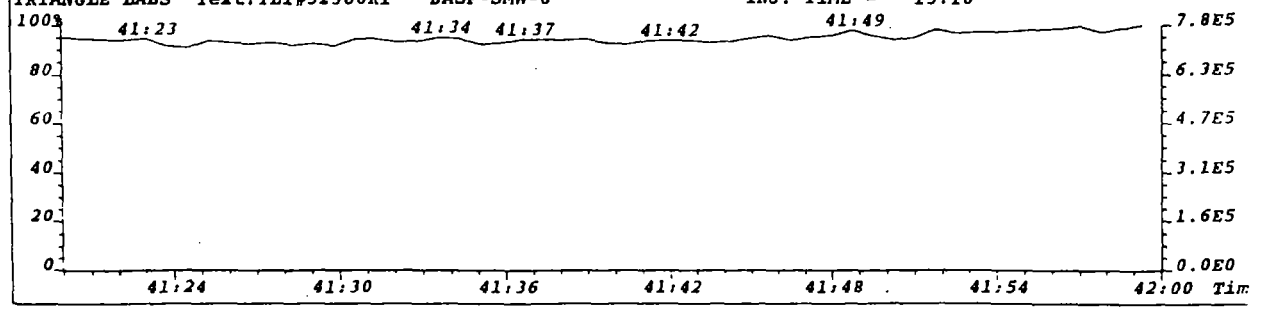
File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:134
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,536.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16

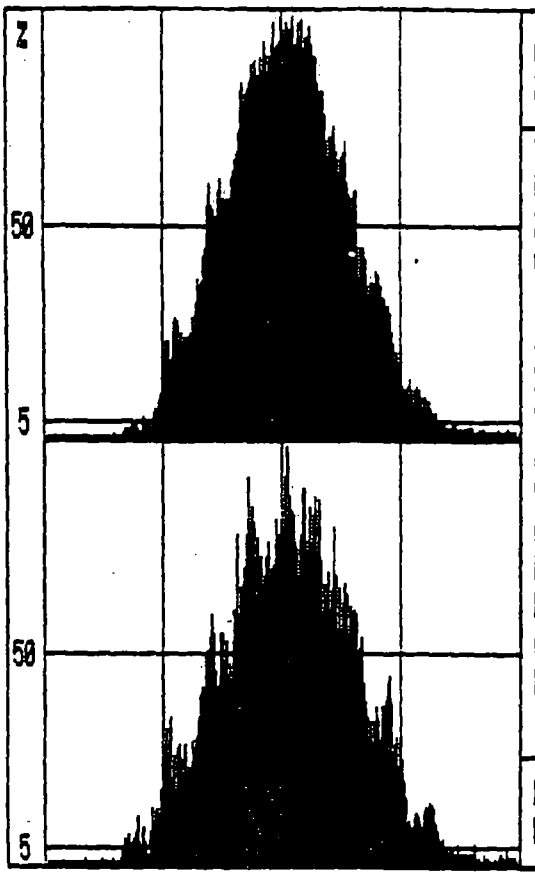


File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T Noise:93
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,372.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16



File:T006000 #1-668 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16



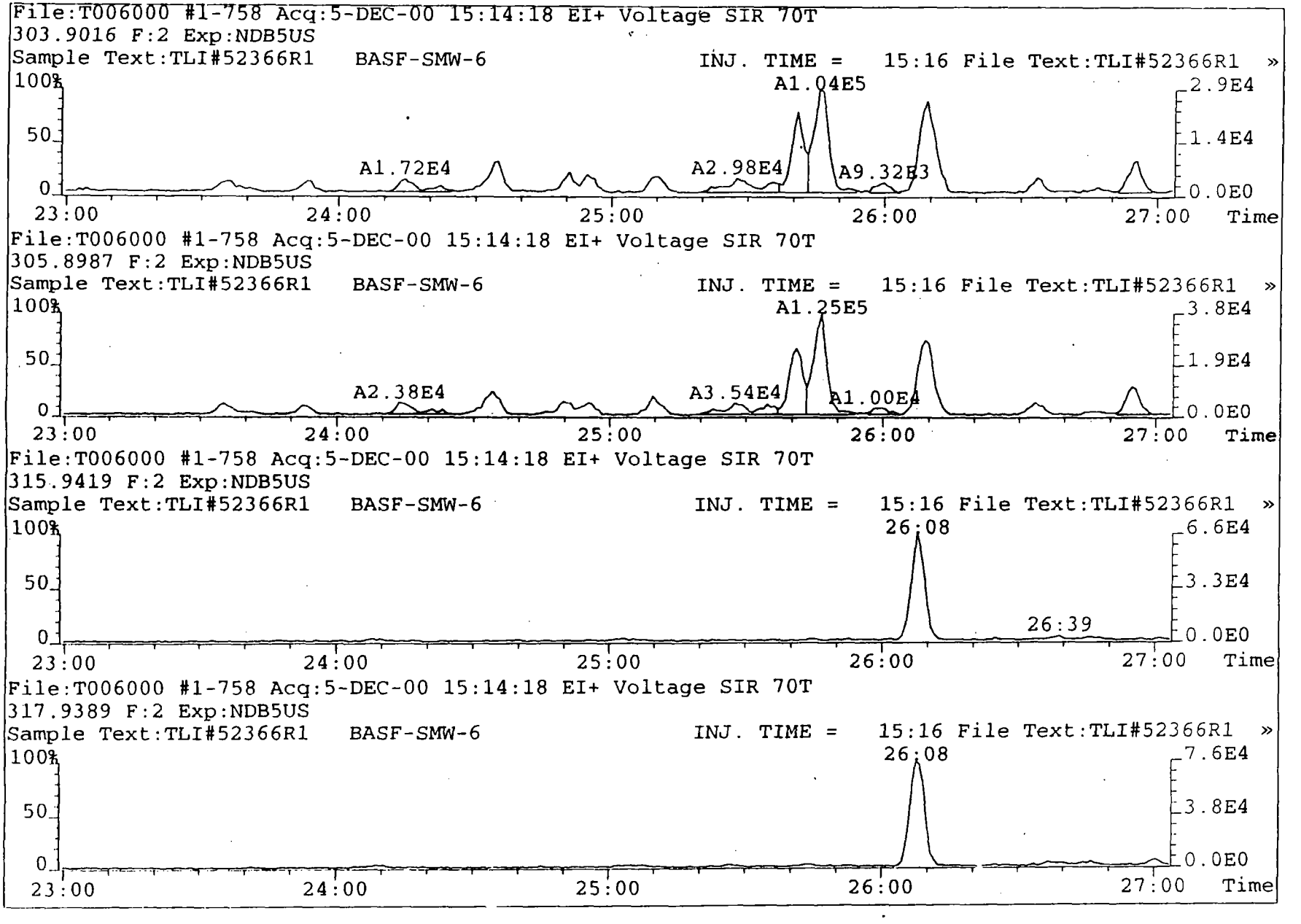


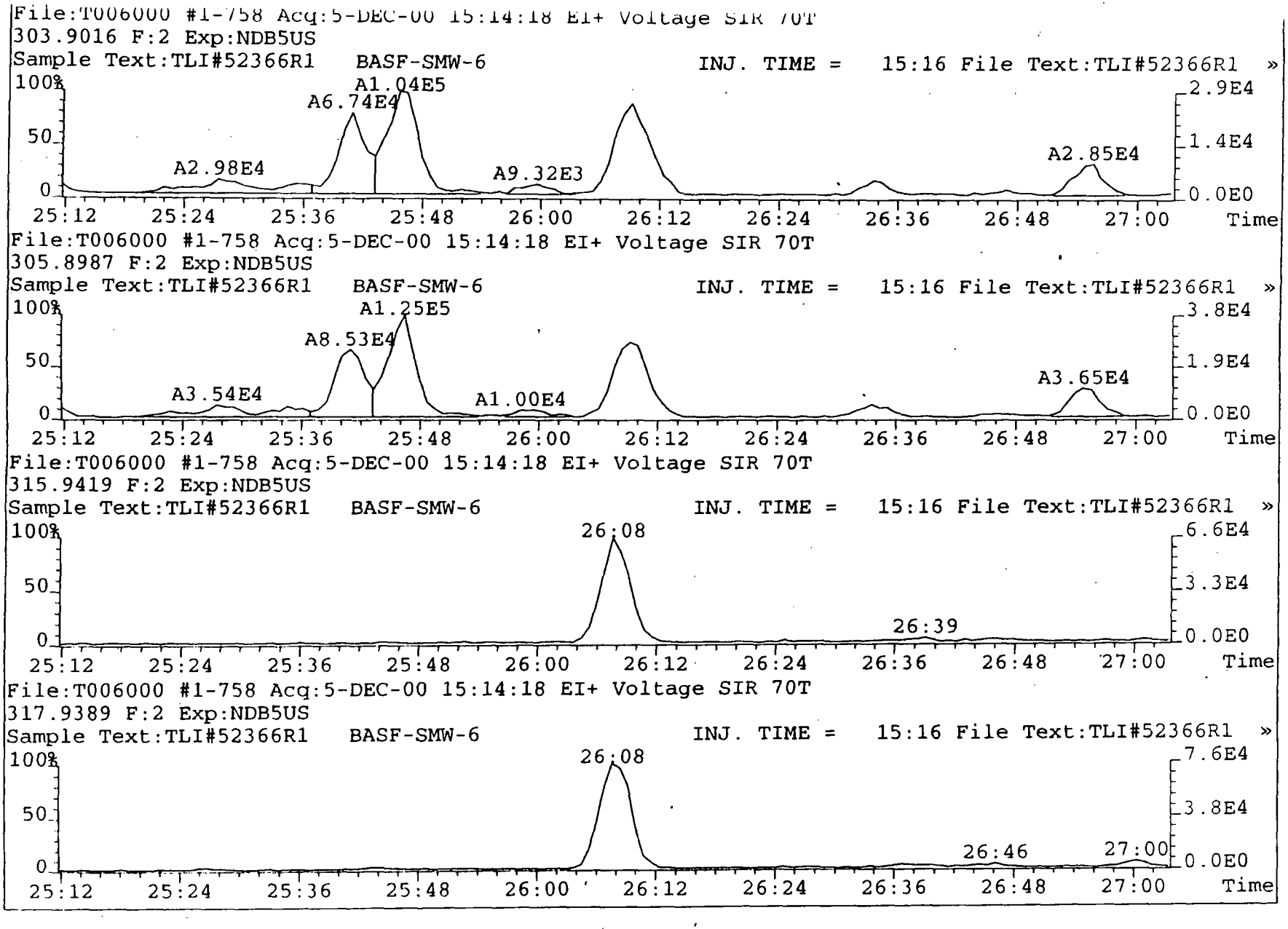
Channel	I	330.9792		Peak top	
Height	.68	volts	Span	200	ppm

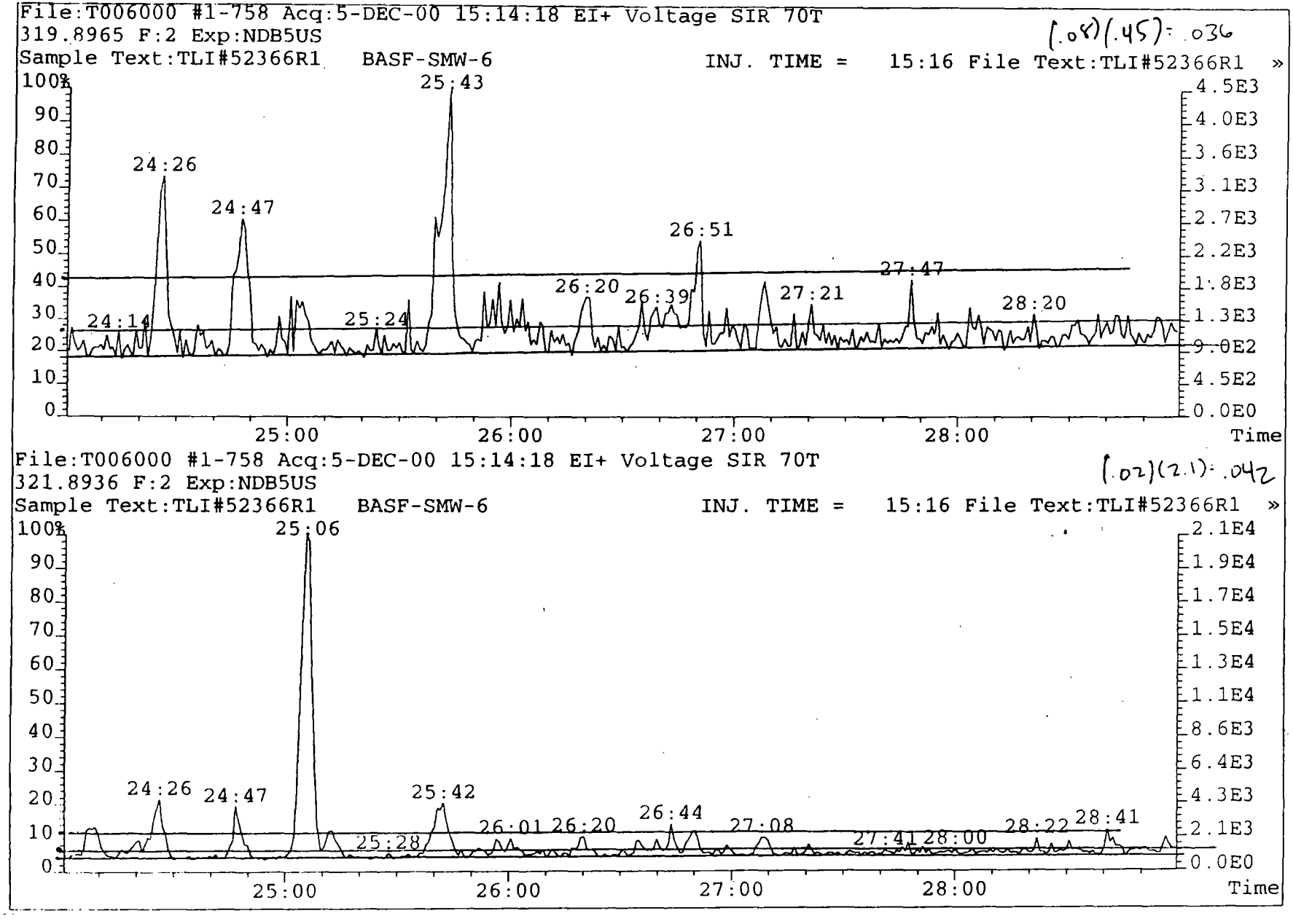
System file name	MD85US
Data file name	A:TD050803
Resolution	10000
Group number	2
Ionization mode	EI+
Switching	VOLTAGE
Ref. masses	292.9825, 416.9760

A	293	J	331	S	368
B	304	K	332	T	370
C	306	L	334	U	376
D	316	M	340	V	410
E	318	N	342		
F	320	O	352		
G	322	P	354		
H	328	Q	356		
I	331	R	358		

Ref. mass	416.9760			Peak top	
Height	.13	volts	Span	200	ppm


File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
303.9016 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
A1.72E4
A2.98E4
A1.04E5
A9.32E3
2.9E4
1.4E4
0.0E0
23:00
24:00
25:00
26:00
27:00
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
305.8987 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
A2.38E4
A3.54E4
A1.25E5
A1.00E4
3.8E4
1.9E4
0.0E0
23:00
24:00
25:00
26:00
27:00
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
315.9419 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
26:08
26:39
6.6E4
3.3E4
0.0E0
23:00
24:00
25:00
26:00
27:00
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
317.9389 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
26:08
7.6E4
3.8E4
0.0E0
23:00
24:00
25:00
26:00
27:00
Time


File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
303.9016 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
A1.04E5
A6.74E4
A2.98E4
A9.32E3
A2.85E4
2.9E4
1.4E4
0.0E0
25:12 25:24 25:36 25:48 26:00 26:12 26:24 26:36 26:48 27:00 Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
305.8987 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
A1.25E5
A8.53E4
A3.54E4
A1.00E4
A3.65E4
3.8E4
1.9E4
0.0E0
25:12 25:24 25:36 25:48 26:00 26:12 26:24 26:36 26:48 27:00 Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
315.9419 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
26:08
26:39
6.6E4
3.3E4
0.0E0
25:12 25:24 25:36 25:48 26:00 26:12 26:24 26:36 26:48 27:00 Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
317.9389 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
26:08
26:46
27:00
7.6E4
3.8E4
0.0E0
25:12 25:24 25:36 25:48 26:00 26:12 26:24 26:36 26:48 27:00 Time

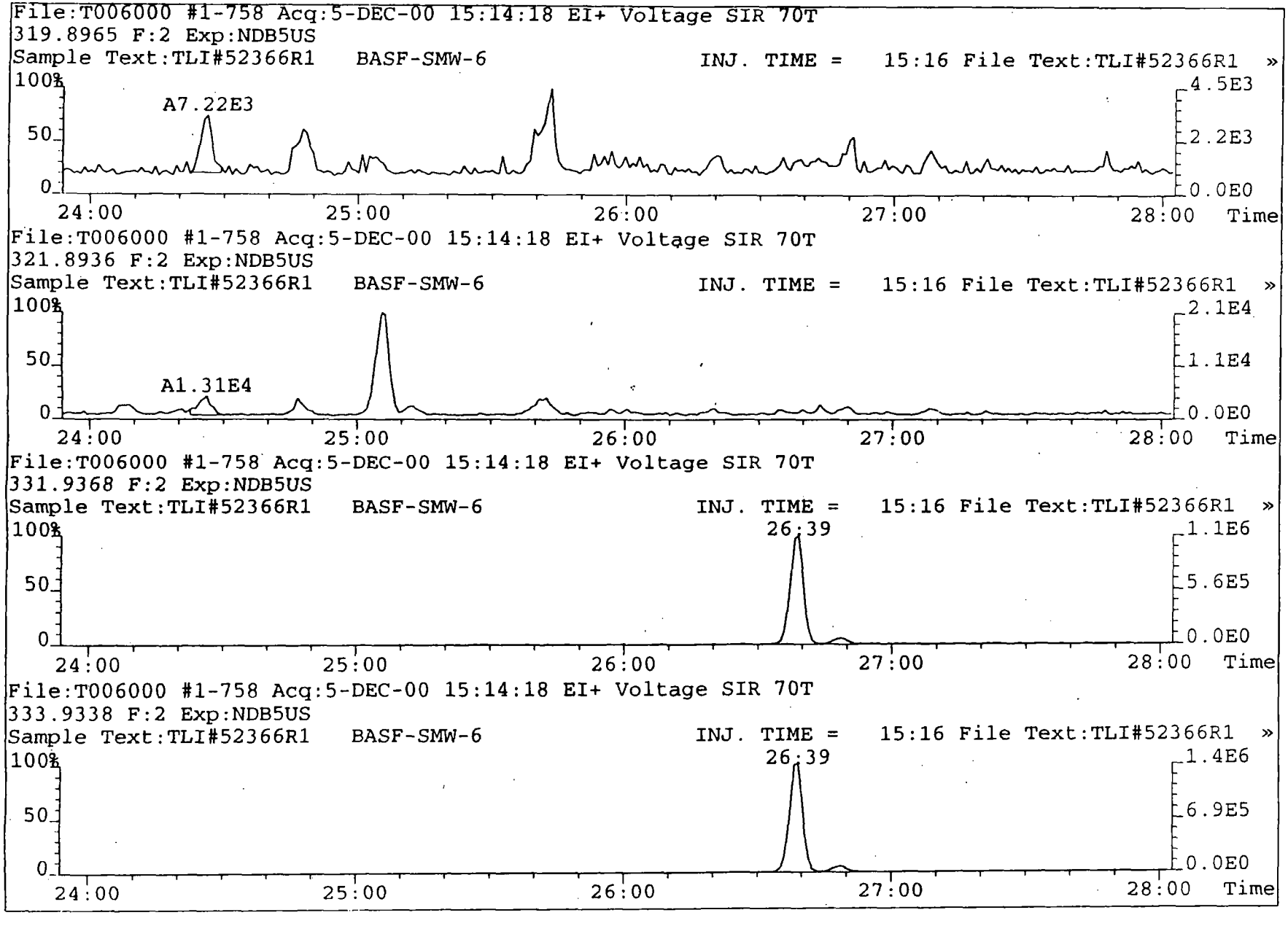


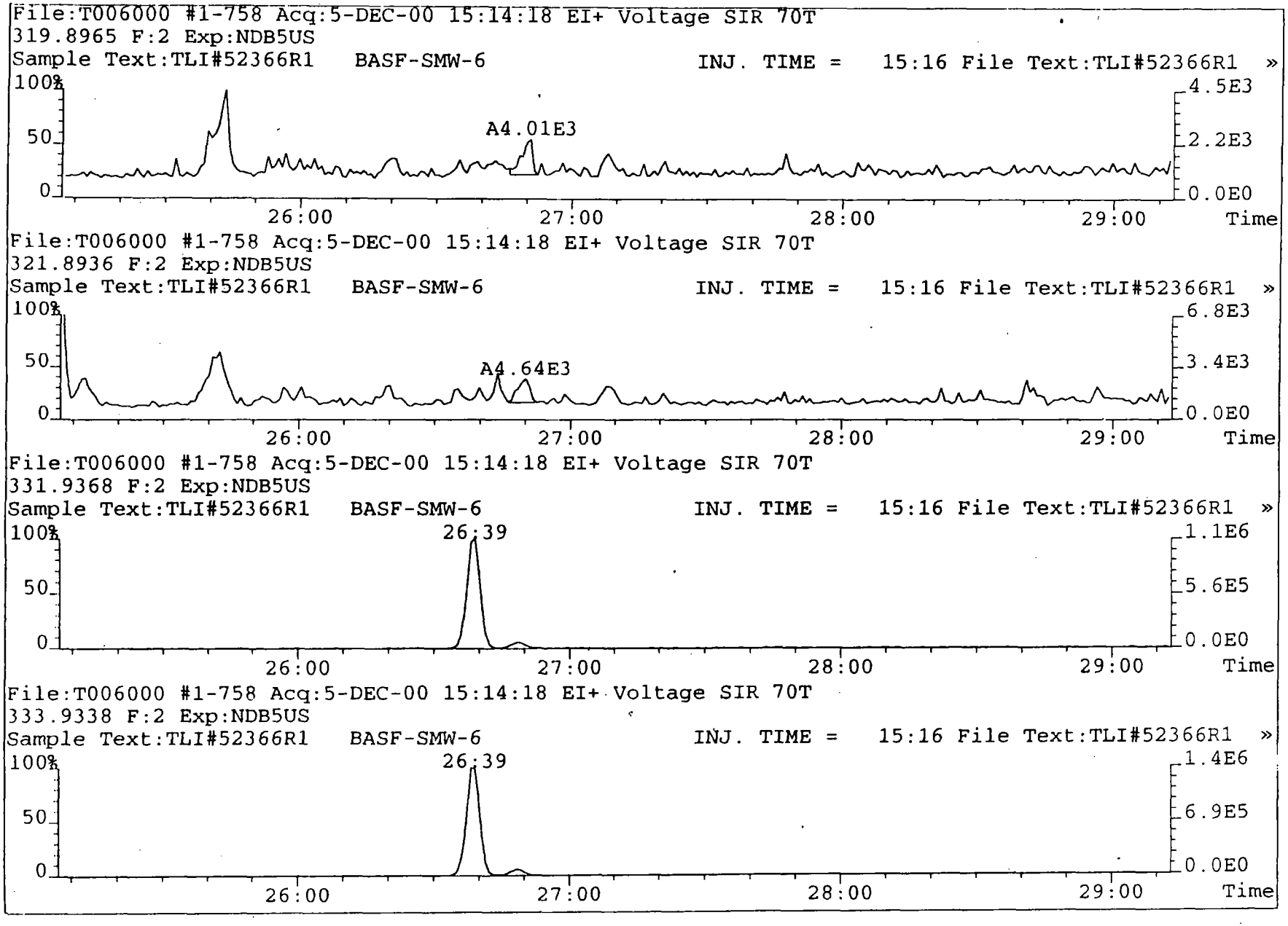
(.08)(.45) = .036

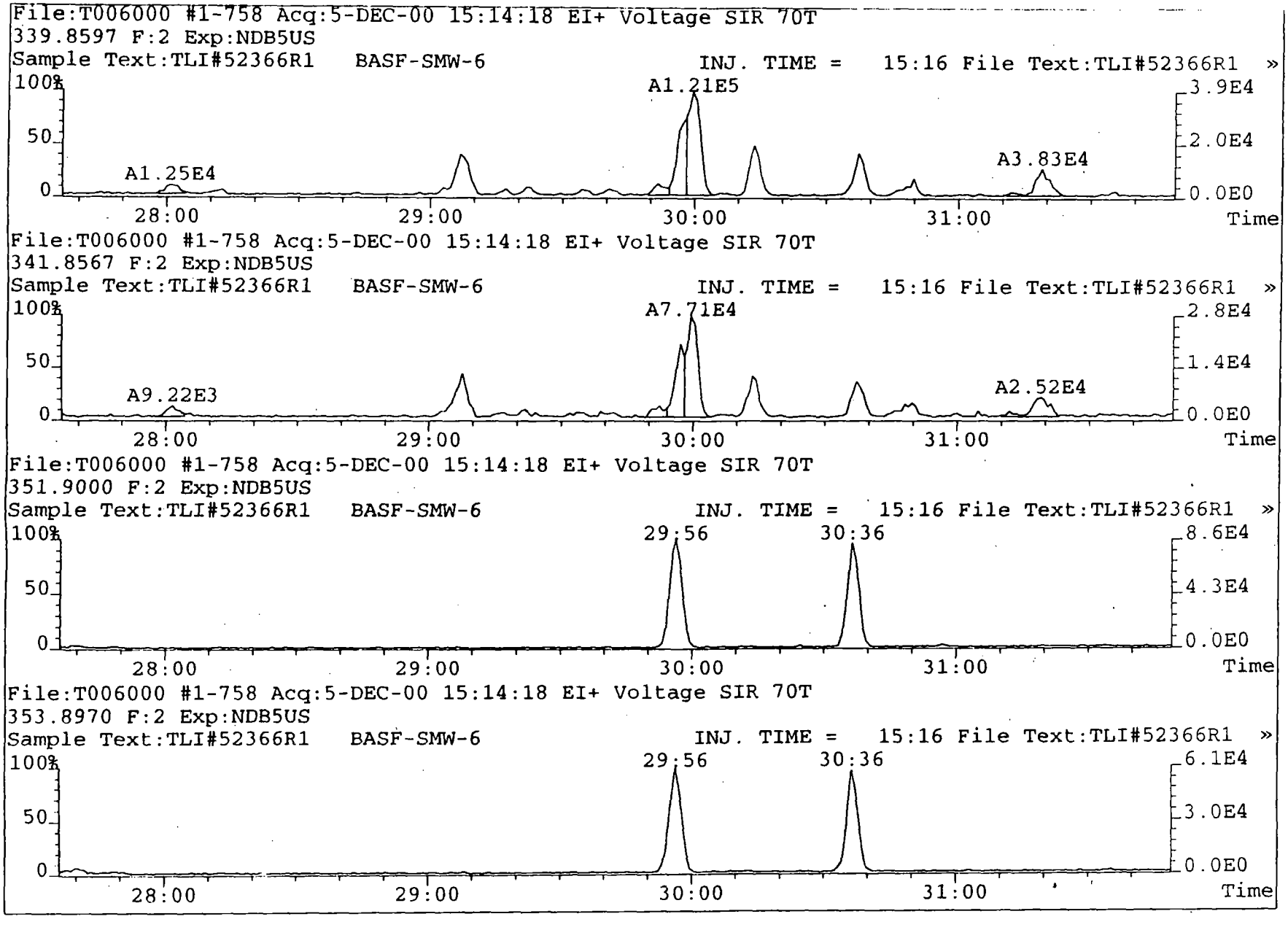
(.02)(2.1) = .042

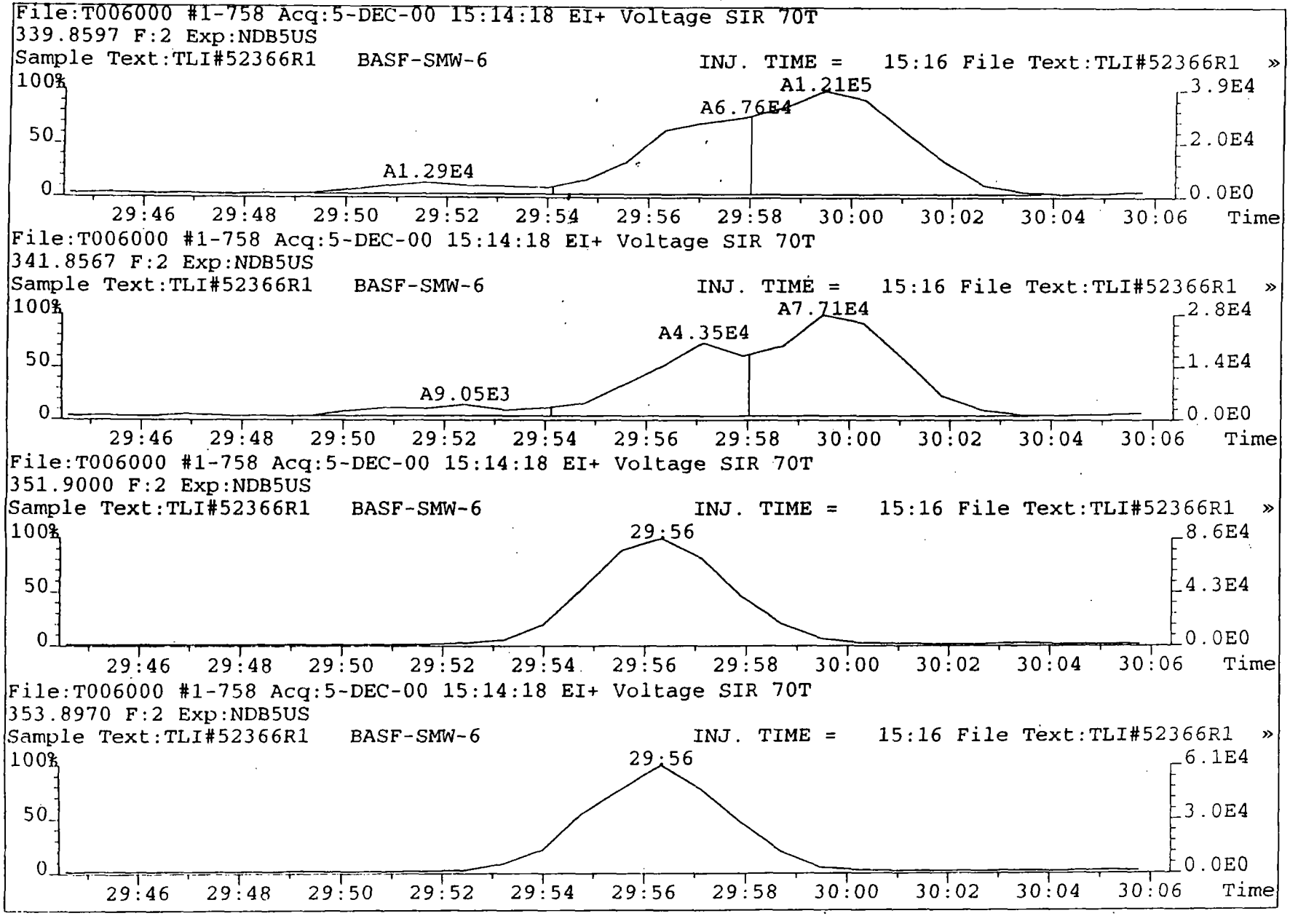
.036
.042
.078

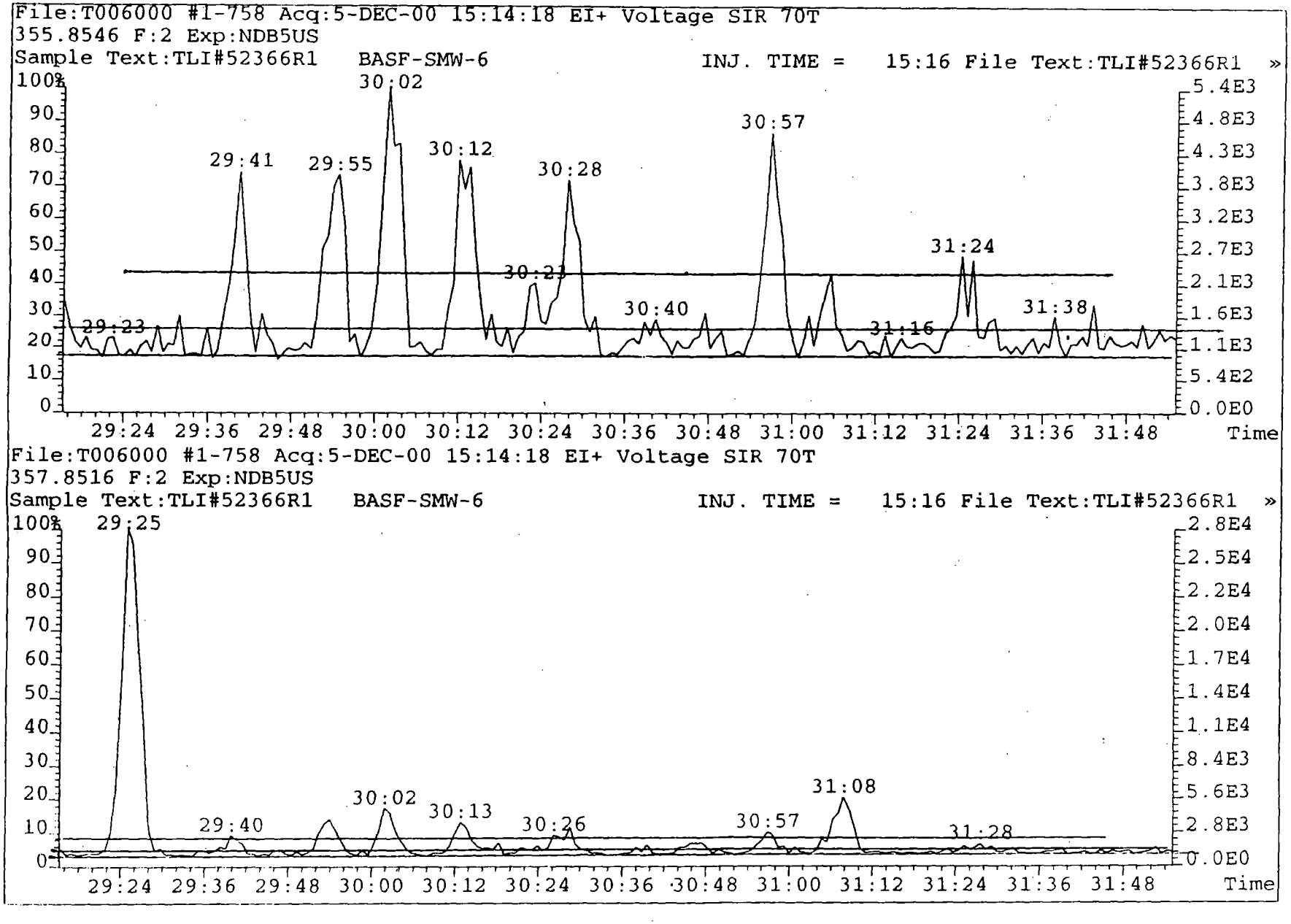
JCA
12/13/00

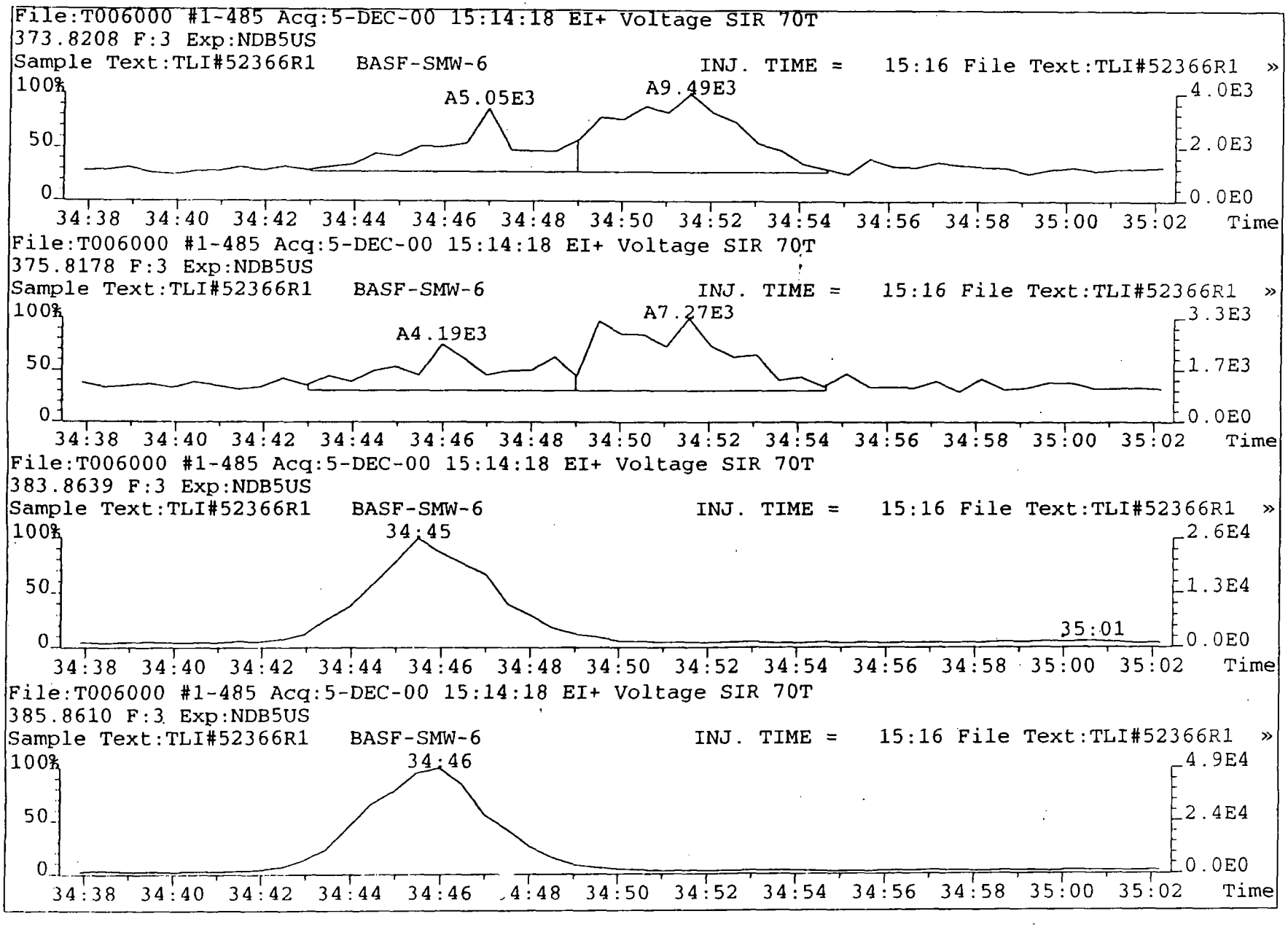

File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
319.8965 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
A7.22E3
4.5E3
2.2E3
0.0E0
24:00
25:00
26:00
27:00
28:00
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
321.8936 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
A1.31E4
2.1E4
1.1E4
0.0E0
24:00
25:00
26:00
27:00
28:00
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
331.9368 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
26:39
1.1E6
5.6E5
0.0E0
24:00
25:00
26:00
27:00
28:00
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
333.9338 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
26:39
1.4E6
6.9E5
0.0E0
24:00
25:00
26:00
27:00
28:00
Time

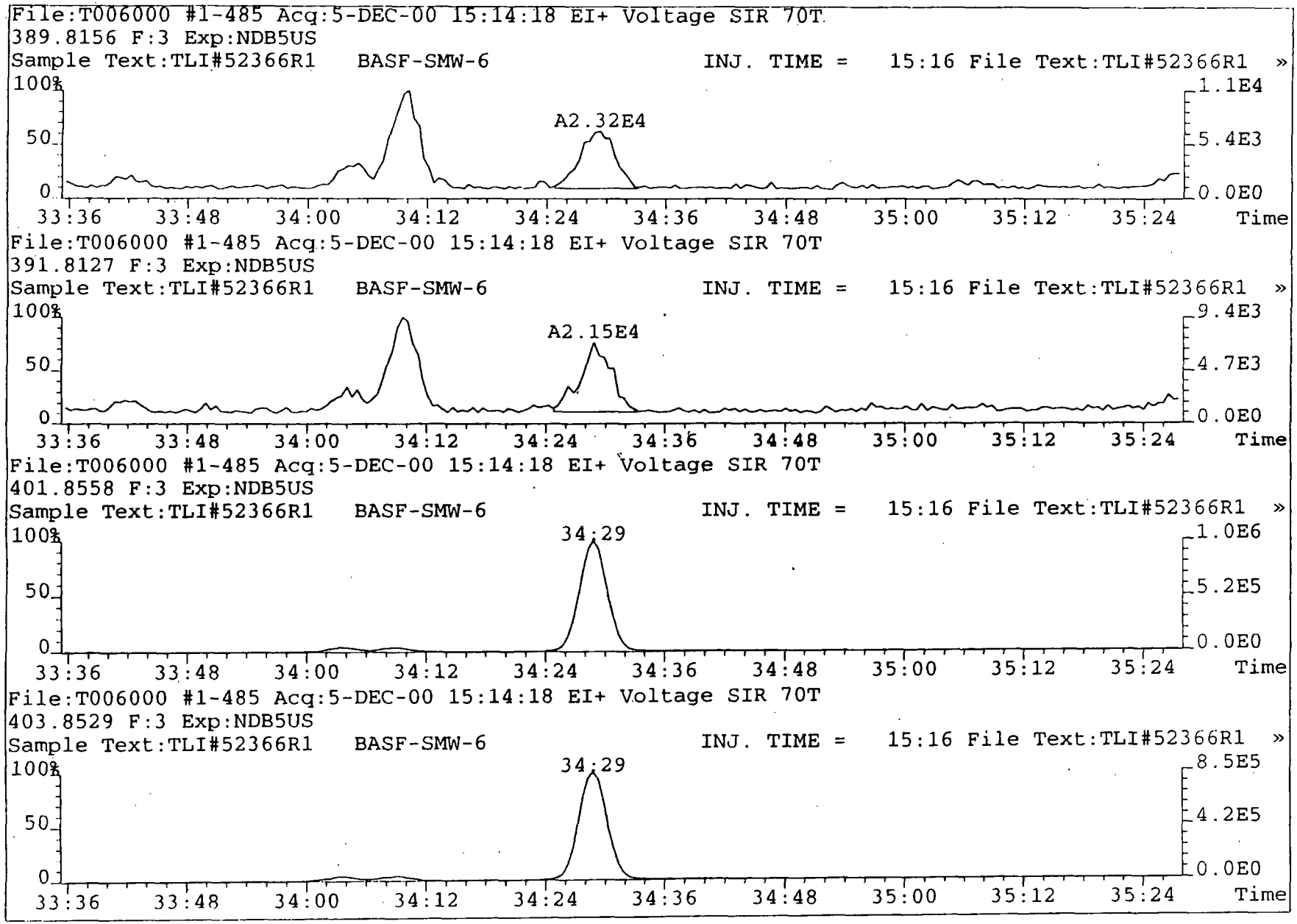

File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
319.8965 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
A4.01E3
4.5E3
2.2E3
0.0E0
26:00
27:00
28:00
29:00
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
321.8936 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
A4.64E3
6.8E3
3.4E3
0.0E0
26:00
27:00
28:00
29:00
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
331.9368 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
26:39
1.1E6
5.6E5
0.0E0
26:00
27:00
28:00
29:00
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
333.9338 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
26:39
1.4E6
6.9E5
0.0E0
26:00
27:00
28:00
29:00
Time


File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
339.8597 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
A1.21E5
A1.25E4
A3.83E4
3.9E4
2.0E4
0.0E0
28:00
29:00
30:00
31:00
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
341.8567 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
A7.71E4
A9.22E3
A2.52E4
2.8E4
1.4E4
0.0E0
28:00
29:00
30:00
31:00
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
351.9000 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
29:56
30:36
8.6E4
4.3E4
0.0E0
28:00
29:00
30:00
31:00
Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
353.8970 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
29:56
30:36
6.1E4
3.0E4
0.0E0
28:00
29:00
30:00
31:00
Time


File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
339.8597 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
A1.21E5
A6.76E4
A1.29E4
3.9E4
2.0E4
0.0E0
29:46 29:48 29:50 29:52 29:54 29:56 29:58 30:00 30:02 30:04 30:06 Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
341.8567 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
A7.71E4
A4.35E4
A9.05E3
2.8E4
1.4E4
0.0E0
29:46 29:48 29:50 29:52 29:54 29:56 29:58 30:00 30:02 30:04 30:06 Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
351.9000 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
29:56
8.6E4
4.3E4
0.0E0
29:46 29:48 29:50 29:52 29:54 29:56 29:58 30:00 30:02 30:04 30:06 Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
353.8970 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
29:56
6.1E4
3.0E4
0.0E0
29:46 29:48 29:50 29:52 29:54 29:56 29:58 30:00 30:02 30:04 30:06 Time


File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
355.8546 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
29:41
29:55
30:02
30:12
30:28
30:57
31:24
29:23
30:23
30:40
31:16
31:38
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 Time
File:T006000 #1-758 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
357.8516 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
29:25
29:40
30:02
30:13
30:26
30:57
31:08
31:28
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 Time


File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
373.8208 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
A5.05E3
A9.49E3
4.0E3
2.0E3
0.0E0
34:38 34:40 34:42 34:44 34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 35:02 Time
File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
375.8178 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
A4.19E3
A7.27E3
3.3E3
1.7E3
0.0E0
34:38 34:40 34:42 34:44 34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 35:02 Time
File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
383.8639 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
34:45
35:01
2.6E4
1.3E4
0.0E0
34:38 34:40 34:42 34:44 34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 35:02 Time
File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
385.8610 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
34:46
4.9E4
2.4E4
0.0E0
34:38 34:40 34:42 34:44 34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 35:02 Time


File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
389.8156 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
A2.32E4
1.1E4
5.4E3
0.0E0
33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00 35:12 35:24 Time
File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
391.8127 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
A2.15E4
9.4E3
4.7E3
0.0E0
33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00 35:12 35:24 Time
File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
401.8558 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
34:29
1.0E6
5.2E5
0.0E0
33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00 35:12 35:24 Time
File:T006000 #1-485 Acq:5-DEC-00 15:14:18 EI+ Voltage SIR 70T
403.8529 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 15:16 File Text:TLI#52366R1
100%
50
0
34:29
8.5E5
4.2E5
0.0E0
33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00 35:12 35:24 Time

TriMatrix, Inc.

TLI Project: **52366r1** Method 8290 TCDD/TCDF Analysis (DB-2
Client Sample: **BASF-SMW-6** Analysis File: **P004**

Client Project:	BASF-Malcolm Pirnie				
Sample Matrix:	WATER	Date Received:	11/17/2000	Spike File:	SPC2NF2
TLI ID:	274-99-2B	Date Extracted:	12/01/2000	ICal:	PF2O230
		Date Analyzed:	12/05/2000	ConCal:	P004403
Sample Size:	1.080 L	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T005998	% Lipid:	n/a
GC Column:	DB-225	Analyst:	DFS	% Solids:	n/a

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flag
2,3,7,8-TCDF	748			0.80	23:49	

Internal Standard	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-2,3,7,8-TCDF	69.9	3.78	40%-130%	0.72	23:48	V

Recovery Standard	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,4-TCDD	0.80	22:36	

Data Reviewer: _____ 12/13/2000

C2NF_PSR v2.03, LAI

Triangle Laboratories, Inc.
801 Capitola Drive • Durham, North Carolina 27713
Phone: (919) 544-5729 • Fax: (919) 544-5491

Printed: 17:39 12/13

Initial ....Date...

Data Review By: JLA 12.13.00

Calculated Noise Height: 0.10

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 P004409B.dbf
12:13/2000 Matched GC Peaks / Ratio / Ret. Time

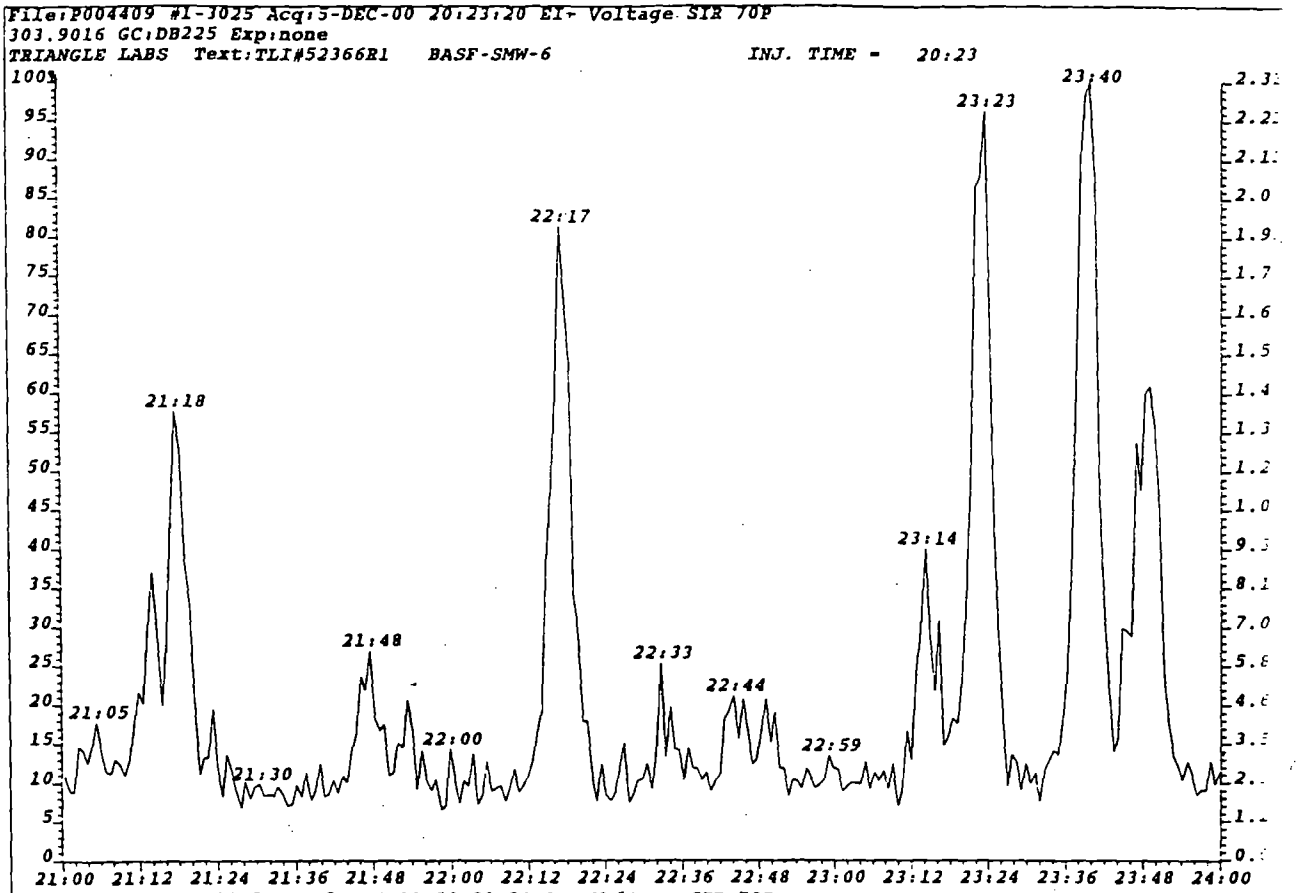
Compound/ M_I....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
TCDF					0.65-0.89					0.791-1.108			
304-306		DC	NL			Height	0.17	0.10	0.07				
		DC	SN	18:52	RO	3.50	0.07			0.976			
				19:03	RO	1.29	0.42	0.31	0.24	0.985			
				19:11	RO	2.59	0.78	1.14	0.44	0.992			
	N	DC	SN	19:23	RO	0.53	0.41			1.003			
		DC	SN	19:27	RO	2.00	0.21			1.006			
		DC	SN	19:50	RO	2.42	0.21			1.026			
		DC	SN	20:01	RO	0.33	0.90			1.035			
				20:10	RO	0.59	1.61	0.70	1.19	1.042			
		DC	SN	20:19	RO	0.16	0.28			1.051			
				20:33	RO	3.05	2.32	3.99	1.31	1.063			
				20:45	RO	1.39	0.81	0.64	0.46	1.073			
				20:56		0.66	4.58	1.82	2.76	1.083			
				21:05		0.66	0.93	0.37	0.56	1.091			
				21:14	RO	0.56	3.59	1.56	2.81	1.093			
				21:18		0.67	8.68	3.49	5.19	1.102			
				21:23		0.77	1.13	0.49	0.64	1.106			
		DC	WH	21:48	RO	1.09	2.57			1.128			
		DC	WH	21:53	RO	1.39	0.90			1.132			
		DC	WH	22:03	RO	1.40	0.18			1.141			
		DC	WH	22:05	RO	1.38	0.14			1.142			
		DC	WH	22:17		0.80	14.56			1.153			
		DC	WH	22:33		0.81	2.04			1.166			
		DC	WH	22:44	RO	7.07	0.27			1.176			
		DC	WH	22:49	RO	1.11	1.27			1.180			
		DC	WH	23:14		0.67	5.64			1.202			
		DC	WH	23:23		0.80	17.92			1.209			
		DC	WH	23:40		0.76	20.75			1.224			
	KNM			23:49		0.80	13.44	5.98	7.46	1.232	2378-TCDF		AN
		DC	WH	24:03		0.85	1.59			1.244			
		DC	WH	24:08	RO	2.21	0.25			1.248			
		DC	WH	24:24	RO	0.49	0.53			1.262			
		DC	WH	24:29		0.80	1.42			1.266			
		DC	WH	24:42		0.79	7.53			1.278			
		DC	WH	25:08		0.70	0.17			1.300			
		DC	WH	25:19		0.82	5.64			1.309			
		DC	WH	25:32	RO	0.40	0.39			1.321			
		DC	WH	25:48	RO	0.41	0.34			1.334			
		DC	WH	25:54	RO	1.20	0.18			1.340			
		DC	WH	26:09	RO	0.46	0.55			1.353			
		DC	WH	26:17	RO	1.22	0.73			1.359			
		DC	WH	26:29		0.75	24.14			1.370			
		DC	WH	26:44	RO	0.44	0.18			1.383			

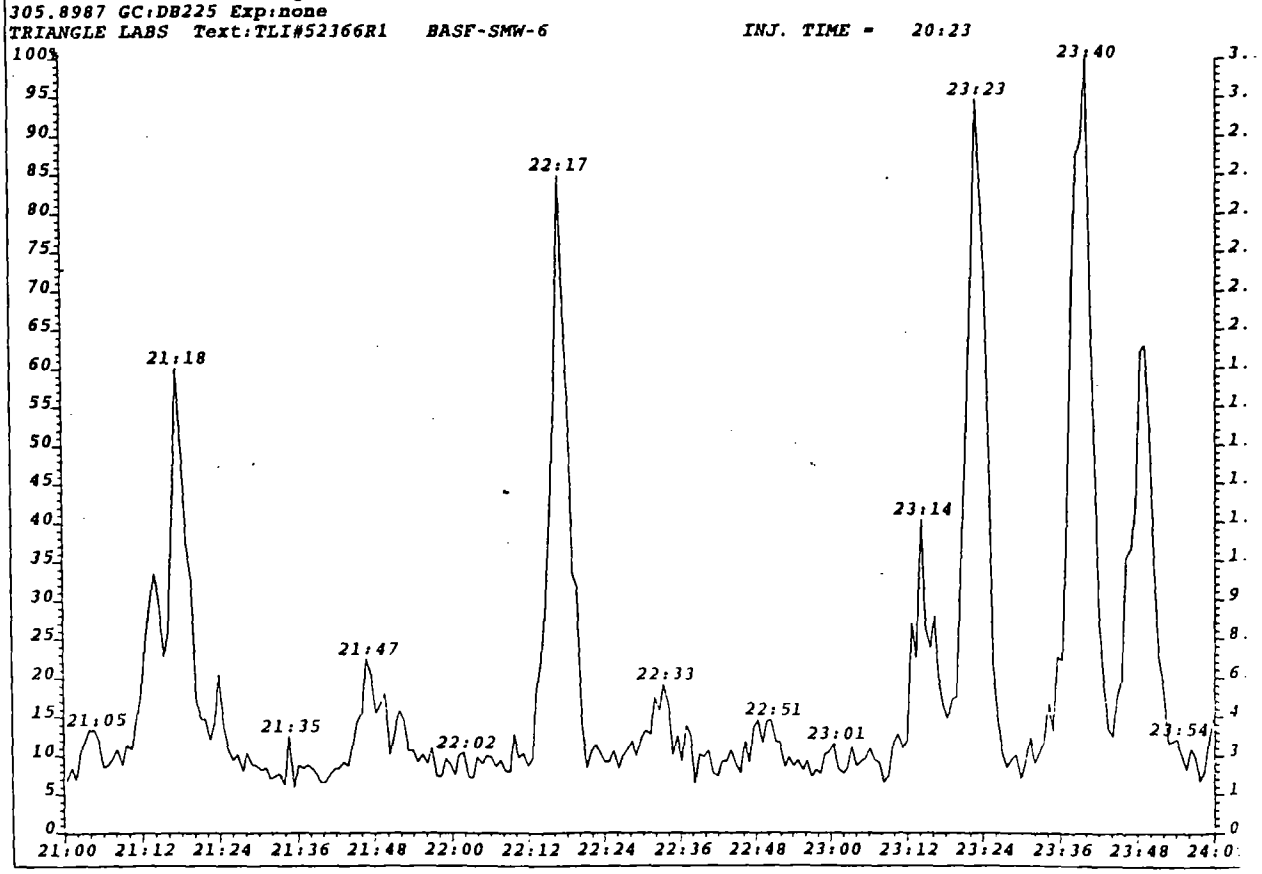
Compound/ M_Z....	QC.Log	Cmit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
304-306			11 Peaks				38.29						
13C12-TCDF				0.65-0.89						0.958-1.042			
316-318		DC	NL			Height	0.47	0.18	0.29				
				18:50	RO	1.19	1.70	1.14	0.96	0.974			
				18:57	RO	1.09	0.58	0.36	0.33	0.980			
	DN	D	SN	19:20		0.78	177.85			1.000			
				19:52	RO	0.62	1.79	0.78	1.26	1.028			
				20:08	RO	1.17	1.66	1.10	0.94	1.041			
		DC	WH	20:28		0.71	0.58			1.059			
		DC	WH	20:37	RO	0.57	0.76			1.066			
		DC	WH	20:43	RO	0.32	0.74			1.072			
		DC	WH	21:19	RO	2.72	0.57			1.103			
		DC	WH	21:35		0.68	1.09			1.116			
		DC	WH	21:49	RO	0.21	0.28			1.128			
		DC	WH	22:10	RO	1.45	0.51			1.147			
		DC	WH	22:21	RO	0.53	0.69			1.156			
		DC	WH	22:28	RO	0.37	0.60			1.162			
		DC	WH	23:03		0.69	1.05			1.192			
		DC	WH	23:18	RO	0.42	0.83			1.205			
		DC	WH	23:23	RO	1.21	0.50			1.209			
	KN			23:48		0.72	35.13	14.67	20.46	1.231	13C12-2378-TCDF	IS0	
						Height	8.29	3.64	4.65				
		DC	WH	24:34	RO	1.08	0.85			1.271			
		DC	WH	25:04	RO	0.16	0.53			1.297			
		DC	WH	25:44	RO	1.41	0.81			1.331			
		DC	WH	26:01	RO	1.03	1.42			1.346			
		DC	WH	26:08	RO	1.57	0.53			1.352			
		DC	WH	26:17	RO	1.28	1.19			1.359			
		DC	WH	26:20	RO	1.67	0.27			1.362			
		DC	WH	26:35	RO	1.24	1.19			1.375			
316-318			5 Peaks				40.86						
---------- Above: TCDF / TCDD Follows ----------													
13C12-TCDD				0.65-0.89						0.910-1.090			
332-334		DC	NL			Height	0.35	0.23	0.12				
				20:43	RO	1.27	1.33	0.95	0.75	0.917			
				21:05	RO	0.90	1.59	0.81	0.90	0.933			
				21:15	RO	2.27	0.80	1.02	0.45	0.940			
		DC	SN	21:23	RO	1.67	0.42			0.946			
		DC	SN	21:34	RO	1.88	0.28			0.954			
				21:41	RO	2.44	0.28	0.39	0.16	0.959			
				22:05	RO	0.21	0.30	0.13	0.63	0.977			
	N			22:16		0.86	31.35	14.49	16.86	0.985	13C12-2378-TCDD	IS1	
						Height	7.74	3.32	4.42				
				22:25	RO	0.23	0.28	0.12	0.53	0.992			
	N			22:36		0.80	594.35	264.91	329.44	1.000	13C12-1234-TCDD	RS1	
				23:17		0.68	1.63	0.66	0.97	1.030			
				23:40		0.65	1.63	0.64	0.99	1.047			
				24:11		0.68	1.60	0.65	0.95	1.070			
		DC	WH	25:01	RO	1.18	0.90			1.107			

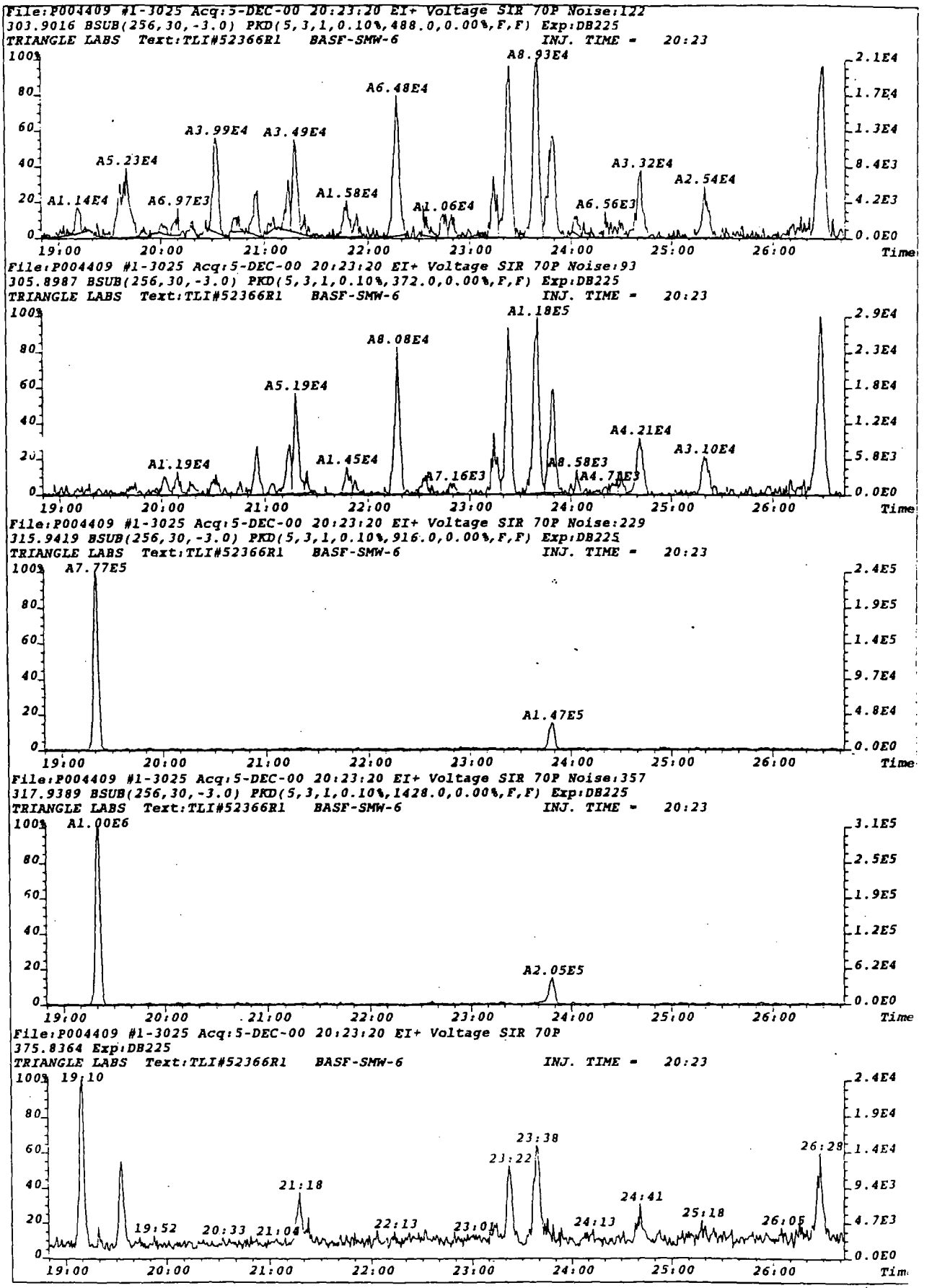
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
		DC	WH	25:11	RO	0.90	0.37			1.114			
		DC	WH	25:17	RO	1.73	0.78			1.119			
		DC	WH	25:35	RO	5.41	0.30			1.132			
		DC	WH	25:41	RO	2.11	1.35			1.136			
		DC	WH	25:50	RO	2.27	0.73			1.143			
332-334		11	Peaks				635.14						

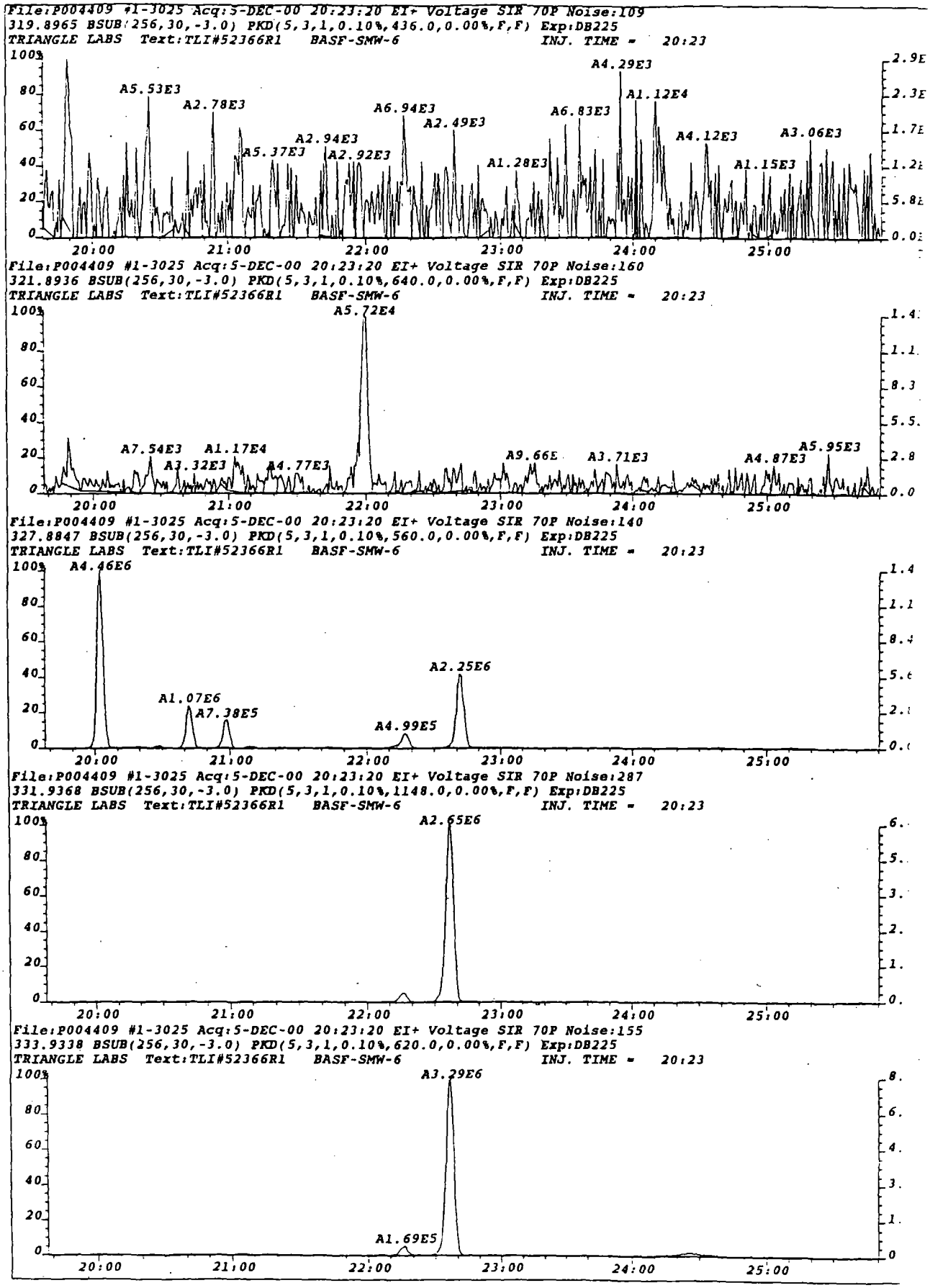
Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside 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

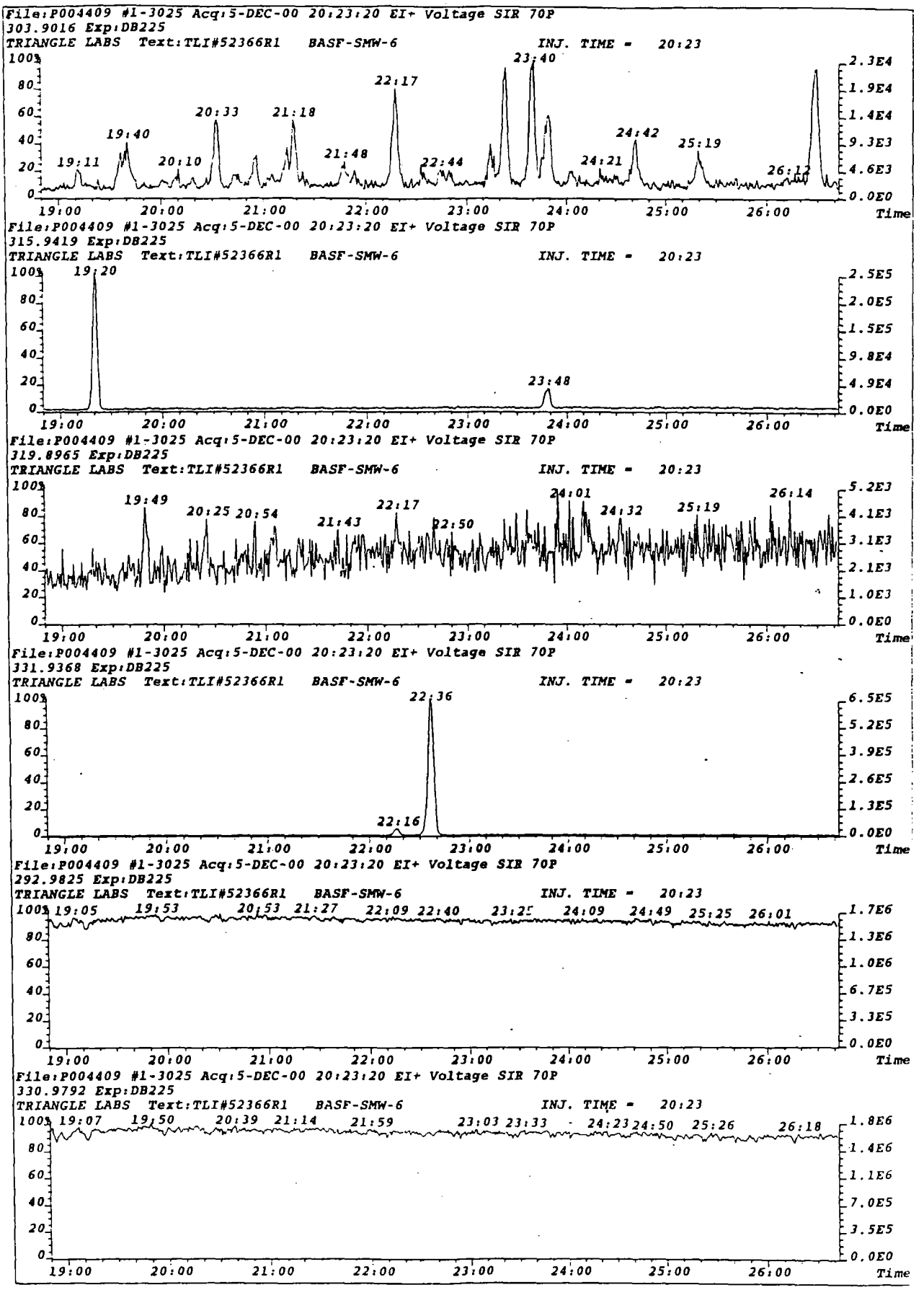
*** End of Report ***

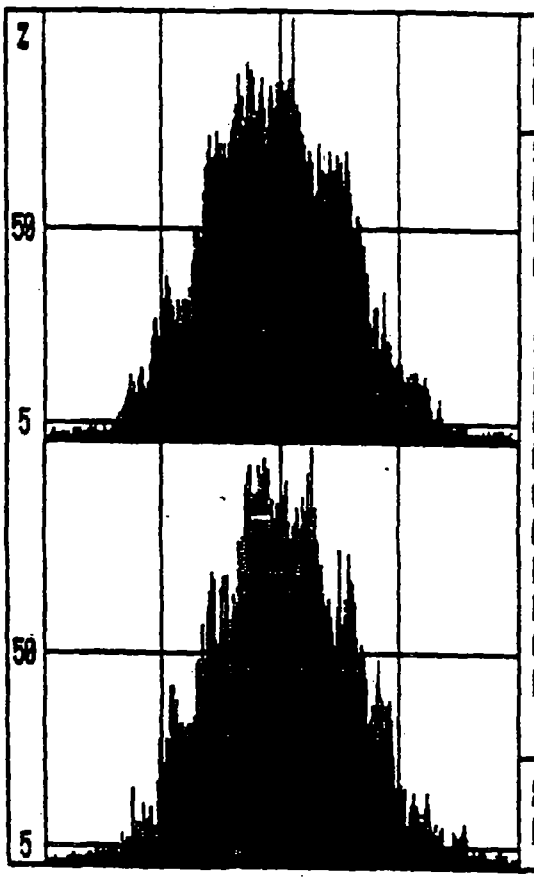

File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P
303.9016 GC:DB225 Exp:none
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6
INJ. TIME = 20:23
21:05
21:18
21:30
21:48
22:00
22:17
22:33
22:44
22:59
23:14
23:23
23:40
21:00 21:12 21:24 21:36 21:48 22:00 22:12 22:24 22:36 22:48 23:00 23:12 23:24 23:36 23:48 24:00


File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P
305.8987 GC:DB225 Exp:none
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6
INJ. TIME = 20:23
21:05
21:18
21:35
21:47
22:02
22:17
22:33
22:51
23:01
23:14
23:23
23:40
23:54
21:00 21:12 21:24 21:36 21:48 22:00 22:12 22:24 22:36 22:48 23:00 23:12 23:24 23:36 23:48


File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P Noise:122
303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,488.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
A8.93E4
A6.48E4
A3.99E4
A3.49E4
A5.23E4
A3.32E4
A2.54E4
A1.14E4
A6.97E3
A1.58E4
A1.06E4
A6.56E3
Time
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P Noise:93
305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,372.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
A1.18E5
A8.08E4
A5.19E4
A4.21E4
A3.10E4
A1.19E4
A1.45E4
A7.16E3
A8.58E3
A4.71E3
Time
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P Noise:229
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,916.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
A7.77E5
A1.47E5
Time
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P Noise:357
317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1428.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
A1.00E6
A2.05E5
Time
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P
375.8364 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
19:10
23:38
23:22
26:29
21:18
24:41
25:18
19:52
20:33
21:04
22:13
23:01
24:13
26:05
Tim


File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P Noise:109
319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,436.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
A5.53E3
A2.78E3
A5.37E3
A2.94E3
A2.92E3
A6.94E3
A2.49E3
A1.28E3
A6.83E3
A4.29E3
A1.12E4
A4.12E3
A3.06E3
A1.15E3
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P Noise:160
321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,640.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
A5.72E4
A7.54E3
A1.17E4
A3.32E3
A4.77E3
A9.66E
A3.71E3
A4.87E3
A5.95E3
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P Noise:140
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,560.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
A4.46E6
A2.25E6
A1.07E6
A7.38E5
A4.99E5
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P Noise:287
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1148.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
A2.65E6
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P Noise:155
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,620.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
A3.29E6
A1.69E5
20:00
21:00
22:00
23:00
24:00
25:00


File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P
303.9016 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
19:11 19:40 20:10 20:33 21:18 21:48 22:17 22:44 23:40 24:21 24:42 25:19 26:12
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P
315.9419 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
19:20 23:48
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P
319.8965 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
19:49 20:25 20:54 21:43 22:17 22:50 24:01 24:32 25:19 26:14
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P
331.9368 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
22:16 22:36
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P
292.9825 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
19:05 19:53 20:53 21:27 22:09 22:40 24:09 24:49 25:25 26:01
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P
330.9792 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23
19:07 19:50 20:39 21:14 21:59 23:03 23:33 24:23 24:50 25:26 26:18
Time

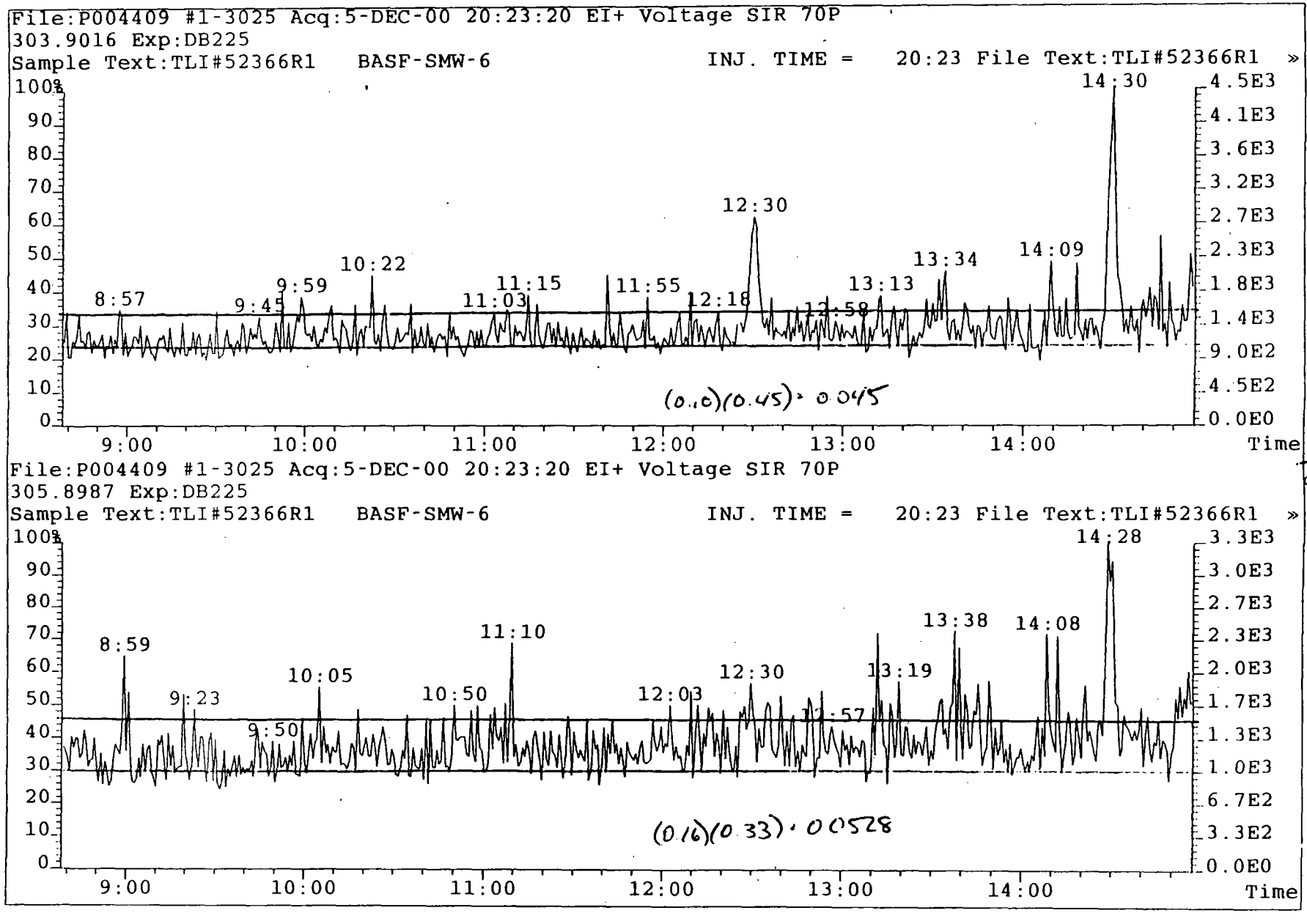


Channel I 330.9792 Peak top
Height .52 volts Span 200 ppm

System file name	08225
Data file name	A:P005002
Resolution	10000
Group number	1
Ionization mode	EI+
Switching	VOLTAGE
Ref. masses	292.9825, 380.9761

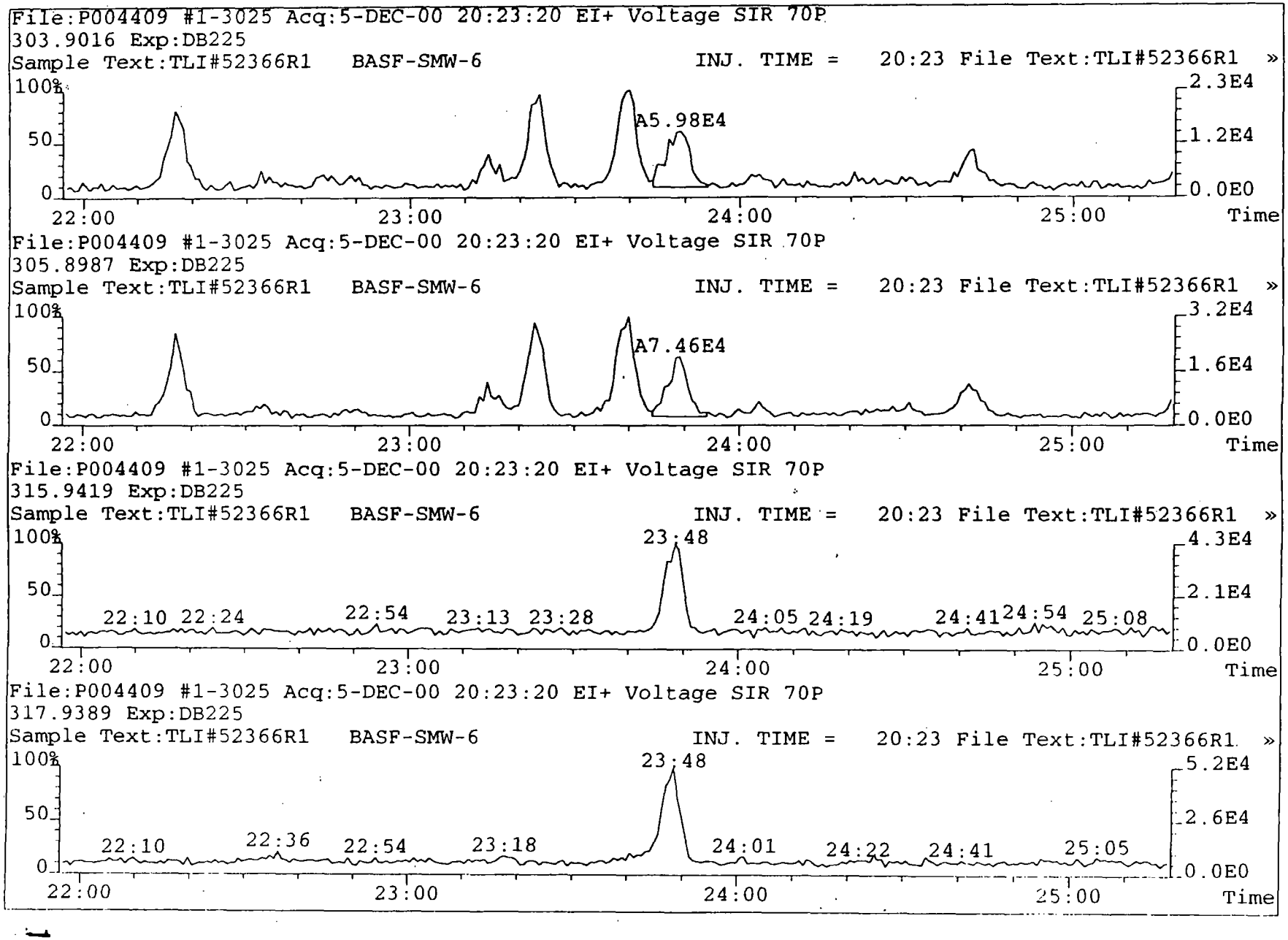
A	292.9825	J	330.9792
B	303.9816	K	331.9368
C	305.8987	L	333.9338
D	315.9419	M	375.8364
E	317.9389		
F	319.8965		
G	321.8936		
H	327.8847		
I	330.9792		

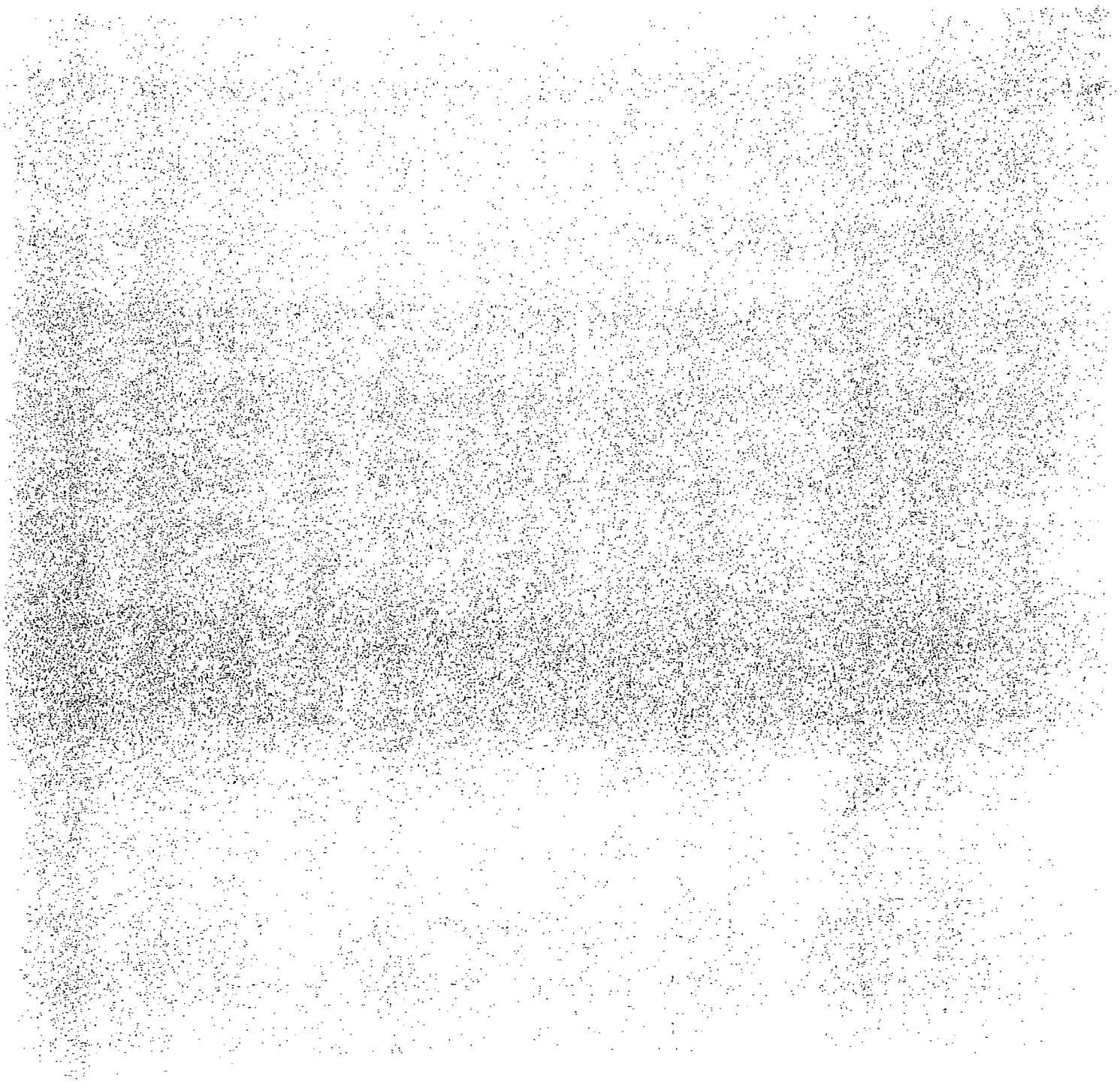
Ref. mass 380.9761 Peak top
Height .22 volts Span 200 ppm



0.0450
0.0528
0.0978

DS
14/20


File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P
303.9016 Exp:DB225
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23 File Text:TLI#52366R1
100%
50
0
A5.98E4
2.3E4
1.2E4
0.0E0
22:00
23:00
24:00
25:00
Time
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P
305.8987 Exp:DB225
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23 File Text:TLI#52366R1
100%
50
0
A7.46E4
3.2E4
1.6E4
0.0E0
22:00
23:00
24:00
25:00
Time
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P
315.9419 Exp:DB225
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23 File Text:TLI#52366R1
100%
50
0
23:48
22:10 22:24 22:54 23:13 23:28 24:05 24:19 24:41 24:54 25:08
4.3E4
2.1E4
0.0E0
22:00
23:00
24:00
25:00
Time
File:P004409 #1-3025 Acq:5-DEC-00 20:23:20 EI+ Voltage SIR 70P
317.9389 Exp:DB225
Sample Text:TLI#52366R1 BASF-SMW-6 INJ. TIME = 20:23 File Text:TLI#52366R1
100%
50
0
23:48
22:10 22:36 22:54 23:18 24:01 24:22 24:41 25:05
5.2E4
2.6E4
0.0E0
22:00
23:00
24:00
25:00
Time



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TLI Project: **52366r1** Method 8290 PCDD/PCDF Analysis
Client Sample: **BASF-DUP1** Analysis File: **T006C**

Client Project:	BASF-Malcolm Pirnie				
Sample Matrix:	WATER	Date Received:	11/17/2000	Spike File:	SPMIT32S
TLI ID:	274-99-4B	Date Extracted:	12/01/2000	ICal:	TF57140
		Date Analyzed:	12/05/2000	ConCal:	T005996
Sample Size:	1.060 L	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T005998	% Lipid:	n/a
GC Column:	DB-5	Analyst:	BWL	% Solids:	n/a

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flag
2,3,7,8-TCDD	62.7			0.73	26:56	
1,2,3,7,8-PeCDD	115			1.48	31:03	
1,2,3,4,7,8-HxCDD	107			1.19	34:08	
1,2,3,6,7,8-HxCDD	2390			1.23	34:14	
1,2,3,7,8,9-HxCDD	888			1.22	34:34	
1,2,3,4,6,7,8-HpCDD	45150			1.03	37:41	E
1,2,3,4,6,7,8,9-OCDD	229590			0.86	41:37	E
2,3,7,8-TCDF	530			0.84	26:16	
1,2,3,7,8-PeCDF	EMPC		858			X
2,3,4,7,8-PeCDF	184			1.61	30:43	
1,2,3,4,7,8-HxCDF	569			1.26	33:26	
1,2,3,6,7,8-HxCDF	151			1.30	33:32	
2,3,4,6,7,8-HxCDF	111			1.27	34:02	
1,2,3,7,8,9-HxCDF	12.1			1.14	34:50	J
1,2,3,4,6,7,8-HpCDF	782			1.05	36:34	
1,2,3,4,7,8,9-HpCDF	101			1.11	38:13	
1,2,3,4,6,7,8,9-OCDF	585			0.89	41:50	

Totals	Conc. (pg/L)	Number	DL	EMPC	Flag
Total TCDD	2820	9		2850	
Total PeCDD	717	7		1220	
Total HxCDD	20210	7			
Total HpCDD	76610	2			E
Total TCDF	2370	13		5270	X
Total PeCDF	1160	8		2770	X
Total HxCDF	2000	12		2490	X
Total HpCDF	1850	3		1950	

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TLI Project: **52366r1** Method 8290 PCDD/PCDF Analysis
Client Sample: **BASF-DUP1** Analysis File: **T006(**

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-2,3,7,8-TCDF	1650	87.3	40%-130%	0.75	26:15	___
$^{13}C_{12}$-2,3,7,8-TCDD	1320	70.1	40%-130%	0.80	26:55	___
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1100	58.1	40%-130%	1.47	30:03	___
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1220	64.6	40%-130%	1.49	31:02	___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1280	67.7	40%-130%	0.51	33:31	___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1300	69.0	40%-130%	1.22	34:13	___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1170	61.7	25%-130%	0.44	36:33	___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1510	80.3	25%-130%	1.20	37:40	___
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	2250	59.6	25%-130%	1.00	41:36	___

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1100	58.3	40%-130%	1.52	30:42	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1340	71.2	40%-130%	0.51	33:25	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1390	73.8	40%-130%	1.23	34:08	___
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1290	68.5	25%-130%	0.42	38:12	___

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flag
$^{37}Cl_4$-2,3,7,8-TCDD	193	102	40%-130%	26:56	___

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1530	81.1	40%-130%	0.51	34:50	___
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1450	77.0	40%-130%	0.51	34:01	___

Recovery Standards	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,4-TCDD	0.81	26:45	___
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.22	34:33	___

Data Reviewer: JCA 12/13/2000

MIT3_PSR v1.00, LA

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TLI Project: **52366r1** Toxicity Equivalents Re:
Client Sample: **BASF-DUP1** Analysis File: **T006**

Client Project:	BASF-Malcolm Pirnie				
Sample Matrix:	WATER	Date Received:	11/17/00	Spike File:	SPMIT32
TLI ID:	274-99-4B	Date Extracted:	12/01/00	ICal:	TF57140
		Date Analyzed:	12/05/00	ConCal:	T005996
Sample Size:	1.060 L	Dilution Factor:	1	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T005998	% Lipid:	n/a
GC Column:	DB-5	Analyst:	BWL	% Solids:	n/a

Analytes	Conc. (pg/L)		TEF		Equivalent
2,3,7,8-TCDD	62.7	x	1.	=	62.7
1,2,3,7,8-PeCDD	115	x	0.5	=	57.5
1,2,3,4,7,8-HxCDD	107	x	0.1	=	10.7
1,2,3,6,7,8-HxCDD	2390	x	0.1	=	239.0
1,2,3,7,8,9-HxCDD	888	x	0.1	=	88.8
1,2,3,4,6,7,8-HpCDD	45150	x	0.01	=	451.50
1,2,3,4,6,7,8,9-OCDD	229590	x	0.001	=	229.590
TOTAL PCDD					1139.8
2,3,7,8-TCDF	327	x	0.1	=	32.7
1,2,3,7,8-PeCDF	[858]	x	0.05	=	42.9
2,3,4,7,8-PeCDF	184	x	0.5	=	92.0
1,2,3,4,7,8-HxCDF	569	x	0.1	=	56.9
1,2,3,6,7,8-HxCDF	151	x	0.1	=	15.1
2,3,4,6,7,8-HxCDF	111	x	0.1	=	11.1
1,2,3,7,8,9-HxCDF	12.1	x	0.1	=	1.21
1,2,3,4,6,7,8-HpCDF	782	x	0.01	=	7.82
1,2,3,4,7,8,9-HpCDF	101	x	0.01	=	1.01
1,2,3,4,6,7,8,9-OCDF	585	x	0.001	=	0.585
TOTAL PCDF					261.3

Total EPA TEFs, 1989a: 1401.1 pg/L

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

GRY_TEF v1.08, M

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Printed: 17:44 1

Initial ....Date...

Data Review By: JCA 12/13/00

Calculated Noise Height: 0.30

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 T006001B.dbf
12/13/2000 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_2....	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				0.880-1.070			
304-306		DC	NL				Height	0.49	0.28	0.21				
					23:24		0.69	2.20	0.90	1.30	0.891			J
					23:40		0.76	72.97	31.61	41.36	0.902			
					23:59		0.79	27.39	12.10	15.29	0.914			
					24:22		0.83	66.66	30.18	36.48	0.928			
					24:40		0.83	93.57	42.39	51.18	0.940			
					25:00		0.83	77.64	35.25	42.39	0.952			
					25:17		0.81	45.32	20.26	25.06	0.963			
					25:34		0.84	51.98	23.69	28.29	0.974			
	X		X		25:45	RO	0.87	90.52	42.23	48.29	0.981			
					25:52		0.81	222.20	99.58	122.62	0.985	1278-TCDF		AN
					26:04		0.86	25.27	11.70	13.57	0.993			
					26:16		0.84	222.36	101.77	120.59	1.001	2378-TCDF		AN
					26:40		0.83	47.69	21.63	26.06	1.016			
	X		X		26:59	RO	0.81	194.82	87.39	107.43	1.028			
	X		X		27:14	RO	0.79	428.70	189.75	238.95	1.037			
	X		X		27:34	RO	0.82	490.20	220.17	270.03	1.050			
					27:47	RO	2.21	12.76	15.90	7.21	1.058			
					27:58		0.85	43.94	20.17	23.77	1.065			
		DC	WH		28:09		0.82	269.32			1.072			
304-306			18	Peaks				2,216.19						
13C12-TCDF							0.65-0.89				0.962-1.038			
316-318		DC	NL				Height	0.58	0.24	0.34				
		DC	WL		22:54		0.75	48.96			0.872			
		DC	WL		24:14	RO	1.01	5.12			0.923			
		DC	WL		25:07	RO	0.52	6.25			0.957			
					25:53	RO	0.59	3.84	1.67	2.81	0.986			
					26:15		0.75	773.89	331.90	441.99	1.000	13C12-2378-TCDF		ISO
							Height	211.12	90.28	120.84				
					26:40		0.82	5.23	2.36	2.87	1.016			
					26:50		0.66	8.38	3.32	5.06	1.022			
					27:05	RO	0.10	2.00	0.87	8.72	1.032			
		DC	WH		27:52	RO	0.10	0.94			1.062			
316-318			5	Peaks				793.34						
---------- Above: TCDF / TCDD Follows ----------														
TCDD							0.65-0.89				0.904-1.042			
320-322		DC	NL				Height	0.17	0.09	0.08				
					24:32		0.78	407.40	178.19	229.21	0.911	1368-TCDD		AN
					24:54		0.76	195.55	84.42	111.13	0.925	1379-TCDD		AN
	M				25:09	RO	0.02	6.55	2.85	187.00	0.934			

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Compound/ M_C....	QC	Log	Omit	Why	RT.	OK	Ratio	Total Area/Ht	Area/Ht Peak1	Area/Ht Peak2	Rel.RT	Compound Name..	ID..	Flag
	A				25:48		0.76	26.70	11.50	15.20	0.959			
					26:03		0.86	7.03	3.26	3.77	0.968			
					26:08		0.74	3.84	1.63	2.21	0.971			
	M				26:26		0.82	4.88	2.20	2.68	0.982			
					26:44		0.30	11.94	5.30	6.64	0.993			
					26:56		0.73	15.50	6.52	8.98	1.001	2378-TCDD	AN	
	A				27:15		0.77	6.55	2.84	3.71	1.012			
		DC	SN		27:27	RO	1.26	0.41			1.020			
		DC	SN		27:45	RO	0.63	1.10			1.031			
		DC	SN		27:52		0.85	1.63			1.035			
		DC	WH		28:16		0.78	1.05			1.050			
320-322			10	Peaks				685.94						
37Cl-TCDD										0.925-1.075				
328		DC	NL			Height		0.22	0.22					
		DC	WL		24:46			14.96			0.920			
		DC	WL		24:52			22.88			0.924			
					25:10			26.91	26.91		0.935			
					25:36			2,920.36	2,920.36		0.951			
					26:56			62.92	62.92		1.001	37Cl-TCDD	CLS	
					27:18			84.69	84.69		1.014			
					28:11			20.15	20.15		1.047			
328			5	Peaks				3,115.03						
13C12-TCDD						0.65-0.89				0.925-1.075				
332-334		DC	NL			Height		0.27	0.18	0.09				
					26:45		0.81	691.49	308.88	382.61	0.994	13C12-1234-TCDD	RS1	
					26:55		0.80	510.19	227.08	283.11	1.000	13C12-2378-TCDD	IS1	
						Height		150.89	67.36	83.53				
					27:04		0.85	1.87	0.86	1.01	1.006			
		DC	SN		27:24	RO	1.03	1.63			1.018			
		DC	SN		27:50	RO	1.07	1.19			1.034			
332-334			3	Peaks				1,203.55						
---------- Above: TCDD / PeCDF Follows ----------														
PeCDF						1.32-1.78				0.930-1.060				
340-342		DC	NL			Height		0.28	0.18	0.10				
					28:08		1.45	42.33	25.08	17.25	0.936			
		DC	SN		28:18	RO	23.30	0.26			0.942			
		DC	SN		28:28	RO	0.36	0.13			0.947			
					28:47	RC	1.27	5.56	3.38	2.66	0.958			J
					29:13		1.47	109.61	65.25	44.36	0.972			
	X		X		29:23	RO	1.44	11.07	6.54	4.53	0.978			
					29:41		1.57	14.95	9.13	5.82	0.988			
					29:46		1.52	12.63	7.61	5.02	0.991			
	A				29:57		1.40	12.47	7.28	5.19	0.997			
	MX		X		30:03	RO	1.50	200.00	120.00	80.00	1.000	12378-PeCDF	AN	
	X		X		30:19	RO	1.53	62.08	37.59	24.49	1.009			
					30:43		1.61	43.38	26.78	16.60	1.022	23478-PeCDF	AN	
					30:55		1.57	32.11	19.60	12.51	1.029			
					31:06	RC	2.03	2.98	2.43	1.17	1.035			J

Compound M_2....	QC.Log	Omit	Why	RT.	OK	Ratio	Total Area/Ht	Area/Ht. Peak1	Area/Ht. Peak2	Rel.RT	Compound.Name..	ID..	Flags
	X		X	31:16	RO	1.64	13.73	8.52	5.21	1.040			
	X		X	31:22	RO	1.55	79.84	48.51	31.33	1.044			
				31:40		1.69	5.46	3.43	2.03	1.054			J
		DC	WH	31:52	RO	1.85	2.37			1.060			
340-342			15	Peaks			648.20						
13C12-PeCDF					1.32-1.78				0.866-1.134				
352-354		DC	NL		Height		0.20	0.07	0.13				
		DC	SN	27:51	RO	0.56	1.79			0.927			
		DC	SN	28:06	RO	2.61	0.46			0.935			
		DC	SN	28:19	RO	0.86	0.90			0.942			
		DC	SN	28:29	RO	1.87	0.77			0.948			
		DC	SN	28:33	RO	0.36	0.41			0.950			
		DC	SN	29:12		1.65	1.27			0.972			
		DC	SN	29:20	RO	0.41	0.33			0.976			
		DC	SN	29:40	RO	0.86	0.81			0.987			
				30:03		1.47	481.98	286.95	195.03	1.000	13C12-PeCDF 123	IS2	
					Height		146.13	86.85	59.28				
				30:18	RO	0.78	3.06	1.86	2.39	1.008			
				30:42		1.52	478.75	289.09	189.66	1.022	13C12-PeCDF 234	SUR1	
		DC	SN	31:02		1.41	1.54			1.033			
		DC	SN	31:25		1.56	2.69			1.045			
				31:39	RO	1.31	6.68	3.43	2.62	1.053			
352-354			4	Peaks			970.47						
	A	---------- Above: PeCDF / PeCDD Follows ----------											
PeCDD					1.32-1.78				0.938-1.020				
356-358		DC	NL		Height		0.10	0.06	0.04				
		DC	WL	29:06	RO	0.48	3.04			0.938			
	A			29:18	RO	1.18	53.30	32.40	27.40	0.944			
		DC	SN	29:30	RO	0.02	0.36			0.951			
				29:47		1.60	6.30	3.88	2.42	0.960			J
				30:00		1.60	19.64	12.10	7.54	0.967			
				30:08		1.59	49.52	30.38	19.14	0.971			
				30:19	RO	1.08	25.60	10.89	10.04	0.977			
				30:34		1.47	15.68	9.34	6.34	0.985			
				30:45		1.54	7.38	4.47	2.91	0.991			J
				30:53	RO	0.59	2.94	1.79	3.01	0.995			J
				31:03		1.48	19.62	11.72	7.90	1.001	12378-PeCDD	AN	
				31:11	RO	0.70	3.27	1.99	2.83	1.005			J
				31:30		1.34	4.24	2.43	1.81	1.015			J
		DC	WH	31:53	RO	0.98	0.64			1.027			
356-358			11	Peaks			207.49						
13C12-PeCDD					1.32-1.78				0.871-1.129				
363-370		DC	NL		Height		0.13	0.09	0.04				
		DC	SN	29:08	RO	1.80	0.26			0.939			
		DC	SN	30:00	RO	1.29	1.76			0.967			
		DC	SN	30:07	RO	1.87	1.40			0.970			
		DC	SN	30:41	RO	2.62	0.33			0.989			
				31:02		1.49	304.77	182.16	122.61	1.000	13C12-PeCDD 123	IS3	
					Height		98.89	58.92	39.97				

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		31:11		1.68	2.09			1.005			
	DC	SN		31:17		1.48	0.67			1.008			
	DC	SN		31:29		1.59	0.44			1.015			
	DC	SN		31:44		1.36	0.33			1.023			
	DC	SN		31:53	RO	2.56	0.46			1.027			
368-370		1	Peak				304.77						
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF						1.05-1.43				0.963-1.047			
374-376	DC	NL				Height	0.38	0.22	0.16				
				32:28		1.22	13.48	7.41	6.07	0.969			
				32:35		1.27	95.89	53.67	42.22	0.972			
				32:46		1.12	2.16	1.14	1.02	0.978			J
				32:53		1.06	7.61	3.92	3.69	0.981			J
				33:03		1.27	135.91	76.04	59.87	0.986			
	X		X	33:15	RO	1.22	6.49	3.56	2.93	0.992			J
				33:26		1.26	144.00	80.37	63.63	0.998	123478-HxCDF	AN	
				33:32		1.30	39.95	22.61	17.34	1.000	123678-HxCDF	AN	
	X		X	33:41	RO	1.27	109.42	61.24	48.18	1.005			
	A			33:50		1.14	3.28	1.75	1.53	1.009			J
				34:02		1.27	26.52	14.82	11.70	1.015	234678-HxCDF	AN	
	DC	SN		34:12	RO	2.87	0.34			1.020			
	DC	SN		34:26	RO	1.59	1.03			1.027			
	DC	SN		34:32	RO	0.95	0.70			1.030			
	M			34:46		1.14	6.01	3.20	2.81	1.037			J
	AN			34:50		1.14	2.37	1.26	1.11	1.039	123789-HxCDF	AN	J
	M			34:56		1.16	11.83	6.36	5.47	1.042			
	DC	SN		35:00	RO	0.48	0.36			1.044			
	DC	WH		35:21		1.16	15.41			1.055			
374-376		14	Peaks				604.92						
13C12-HxCDF						0.43-0.59				0.880-1.120			
384-386	DC	NL				Height	0.42	0.15	0.27				
				32:29	RO	0.75	1.87	0.63	0.84	0.969			
				33:25		0.51	481.67	163.19	318.48	0.997	13C12-HxCDF 478	SUR2	
				33:31		0.51	465.20	157.47	307.73	1.000	13C12-HxCDF 678	IS4	
						Height	148.73	49.82	98.91				
				34:01		0.51	482.81	162.28	320.53	1.015	13C12-HxCDF 234	ALT2	
				34:50		0.51	373.50	126.05	247.45	1.039	13C12-HxCDF 789	ALT1	
384-386		5	Peaks				1,805.05						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD						1.05-1.43				0.957-1.013			
390-392	DC	NL				Height	0.54	0.28	0.26				
				32:56		1.24	572.16	316.90	255.26	0.962			
				33:23		1.24	90.61	50.09	40.52	0.976			
				33:36		1.23	2,027.04	1,118.50	908.54	0.982			
				33:46		1.38	5.28	3.06	2.22	0.987			J
	AN			34:08		1.19	17.13	9.30	7.83	0.998	123478-HxCDD	AN	
	M			34:14		1.23	382.00	211.00	171.00	1.000	123678-HxCDD	AN	

Compound/ M_Z....	QC.Log	Cmit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
				34:34		1.22	143.25	78.71	64.54	1.010	123789-HxCDD	AN	
390-392			7 Peaks				3,237.47						
13C12-HxCDD						1.05-1.43				0.971-1.029			
402-404	DC	NL				Height	0.57	0.37	0.20				
	DC	NL		33:10	RO	3.42	1.19			0.969			
	DC	SN		33:14	RO	4.08	0.58			0.971			
	DC	SN		33:18	RO	3.77	0.49			0.973			
				33:34	RO	7.02	3.02	9.48	1.35	0.981			
				34:08		1.23	328.47	181.05	147.42	0.998	13C12-HxCDD 473	SUR3	
				34:13		1.22	296.39	162.63	133.76	1.000	13C12-HxCDD 678	IS5	
						Height	92.17	49.40	42.77				
				34:33		1.22	473.31	259.71	213.60	1.010	13C12-HxCDD 789	RS2	
				34:57	RO	1.03	2.89	1.33	1.29	1.021			
402-404			5 Peaks				1,104.08						

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

HpCDF						0.88-1.20				0.995-1.050			
408-410	DC	NL				Height	0.48	0.27	0.21				
				36:34		1.05	147.40	75.65	71.75	1.000	1234678-HpCDF	AN	
X		X		36:50	RO	1.05	15.43	7.90	7.53	1.008			
				37:01		1.08	162.37	84.27	78.10	1.013			
D	D	NH		37:41	RO	1.47	4.71			1.031			
				38:13		1.11	14.72	7.76	6.96	1.046	1234789-HpCDF	AN	
408-410			4 Peaks				339.92						
13C12-HpCDF						0.37-0.51				0.945-1.110			
418-420	DC	NL				Height	0.37	0.20	0.17				
				36:33		0.44	283.50	87.27	196.23	1.000	13C12-HpCDF 673	IS6	
						Height	75.76	23.58	52.18				
	DC	SN		37:07	RO	1.60	0.36			1.016			
	DC	SN		37:28	RO	1.40	0.72			1.025			
				38:12		0.42	244.81	72.99	171.82	1.045	13C12-HpCDF 789	SUR4	
418-420			2 Peaks				528.31						

---------- Above: HpCDF / HpCDD Follows ----------

HpCDD						0.88-1.20				0.974-1.004			
424-426	DC	NL				Height	1.09	0.66	0.43				
				36:52		1.03	4,648.14	2,358.68	2,289.46	0.979			E
				37:41		1.03	6,669.20	3,383.82	3,285.38	1.000	1234678-HpCDD	AN	E
424-426			2 Peaks				11,317.34						
13C12-HpCDD						0.88-1.20				0.973-1.027			
436-438	DC	NL				Height	1.70	1.25	0.45				
				36:45	RO	4.35	2.84	6.04	1.39	0.976			
M				37:40		1.20	326.00	178.00	148.00	1.000	13C12-HpCDD 678	IS7	
						Height	79.47	41.69	37.78				
				37:57	RO	4.20	11.38	23.45	5.58	1.008			
436-438			3 Peaks				340.22						

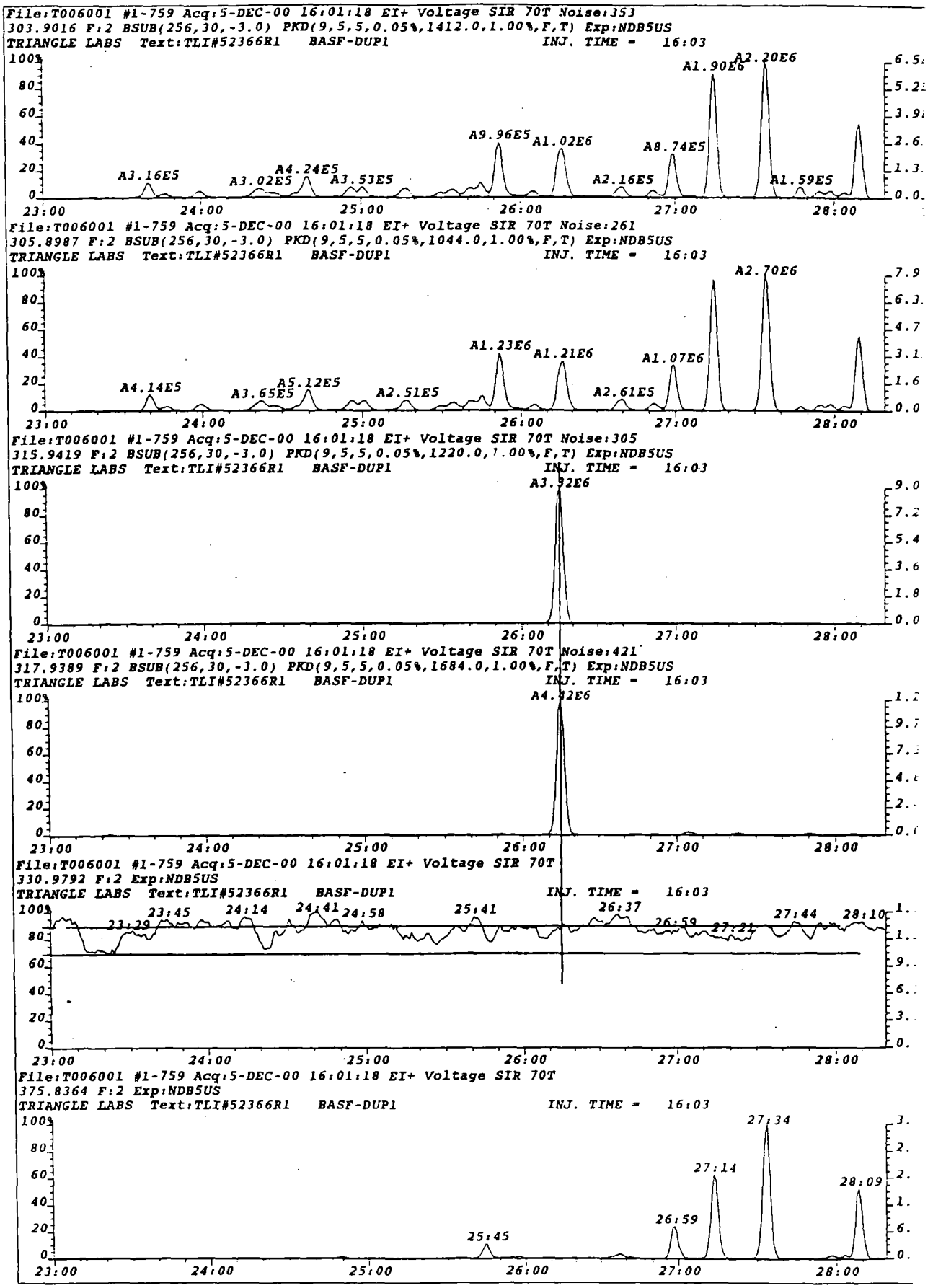
Compound/
M_Z.... QC.Log Omit Why ..RT. OK Ratio Total.Area/Ht Area/Ht.Peak1 Area/Ht.Peak2 Rel.RT Compound.Name.. ID.. Flags

---------- Above: HpCDD / Octa-CDD and CDF Follows ----------

OCDF					0.76-1.02				0.904-1.096			
442-444	DC	NL			Height	0.21	0.11	0.10				
	DC	SN	39:21	RO	1.19	0.81			0.946			
	DC	SN	40:04	RO	0.53	0.17			0.963			
	DC	SN	40:11	RO	2.07	0.28			0.966			
	DC	SN	40:31	RO	1.82	0.21			0.974			
	DC	SN	40:38	RO	4.32	0.21			0.977			
	DC	SN	40:53	RO	1.74	0.36			0.983			
	DC	SN	40:58	RO	0.75	0.45			0.985			
	DC	SN	41:18	RO	1.26	0.51			0.993			
			41:37		0.87	9.70	4.52	5.18	1.000			
			41:50		0.89	67.23	31.72	35.51	1.006	OCDF		AN
	DC	SN	43:10		0.86	1.17			1.038			
	DC	SN	43:41	RO	1.67	0.11			1.050			
	DC	SN	43:47		0.90	0.38			1.052			
	DC	SN	43:56		0.85	1.44			1.056			
442-444			2 Peaks			76.93						
OCDD					0.76-1.02				0.904-1.096			
458-460	DC	NL			Height	0.18	0.08	0.10				
			41:37		0.86	21,910.10	10,139.20	11,770.90	1.000	OCDD		AN E
458-460			1 Peak			21,910.10						
13C12-OCDD					0.76-1.02				0.996-1.004			
470-472	DC	NL			Height	1.17	0.87	0.30				
M			41:36		1.00	394.00	197.00	197.00	1.000	13C12-OCDD		IS8
					Height	72.15	34.06	38.09				
			41:45	RO	3.37	7.30	12.99	3.86	1.004			
470-472			2 Peaks			401.30						

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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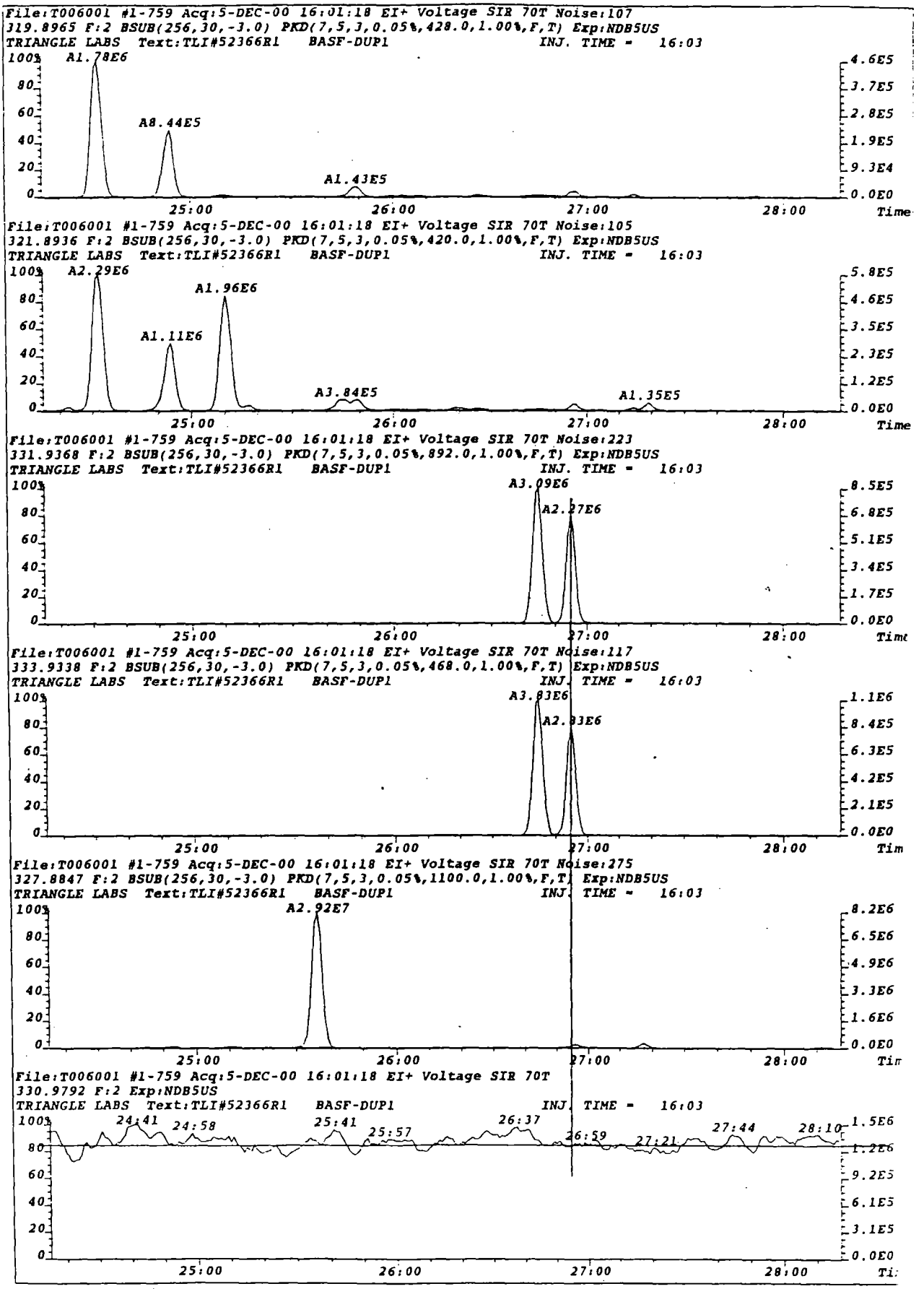
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,1412.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A3.16E5
A3.02E5
A4.24E5
A3.53E5
A9.96E5
A1.02E6
A2.16E5
A8.74E5
A1.90E6
A2.20E6
A1.59E5
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:261
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,1044.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A4.14E5
A3.65E5
A5.12E5
A2.51E5
A1.23E6
A1.21E6
A2.61E5
A1.07E6
A2.70E6
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:305
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,1220.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A3.32E6
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:421
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,1684.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A4.32E6
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
23:29
23:45
24:14
24:41
24:58
25:41
26:37
26:59
27:21
27:44
28:10
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
25:45
26:59
27:14
27:34
28:09
23:00
24:00
25:00
26:00
27:00
28:00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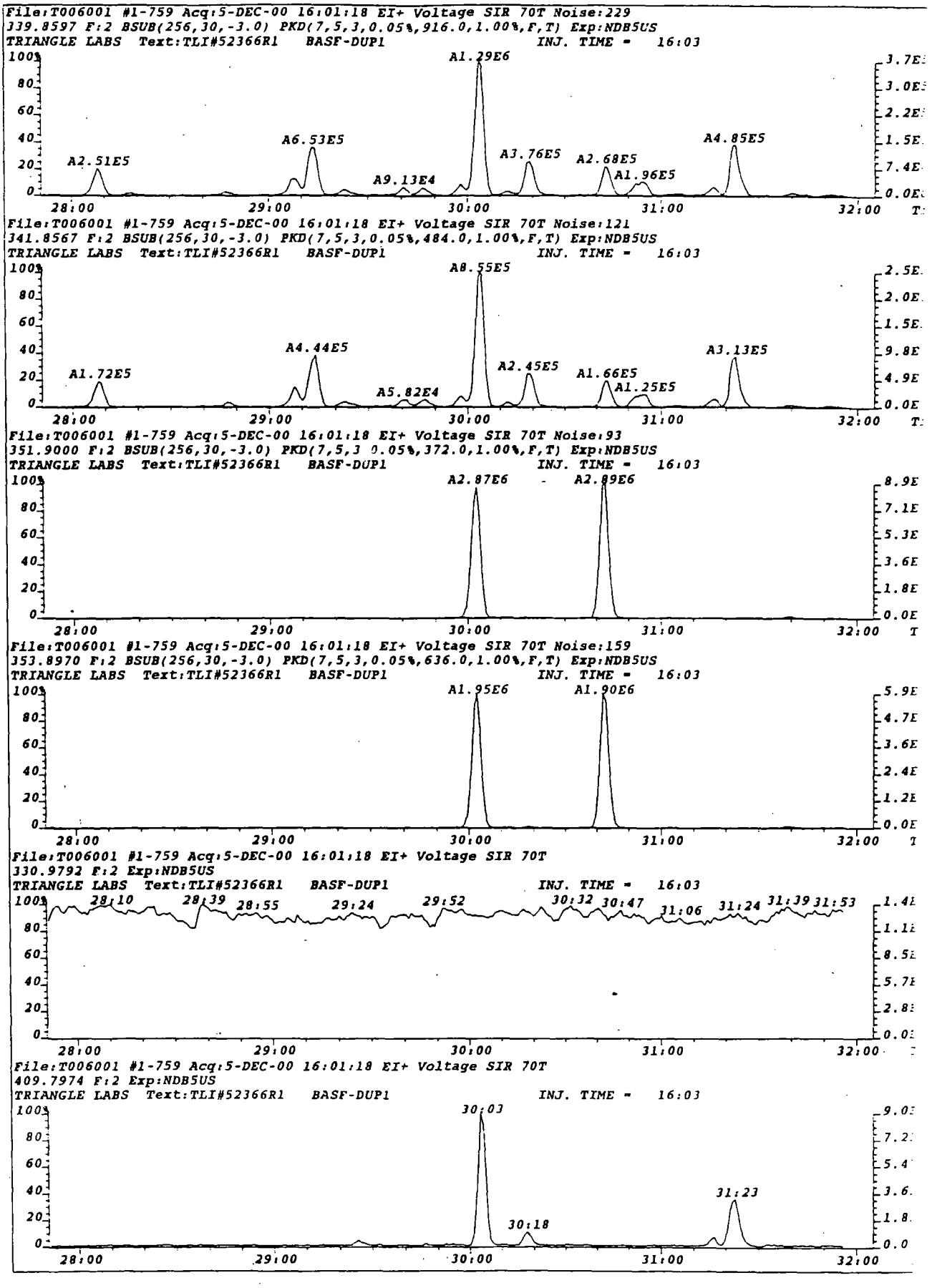
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,428.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A1.78E6
A8.44E5
A1.43E5
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:105
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,420.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A2.29E6
A1.96E6
A1.11E6
A3.84E5
A1.35E5
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:223
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,892.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A3.09E6
A2.27E6
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:117
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,468.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A3.03E6
A2.93E6
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:275
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1100.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A2.92E7
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
24:41
24:58
25:41
25:57
26:37
26:59
27:21
27:44
28:10
25:00
26:00
27:00
28:00
Time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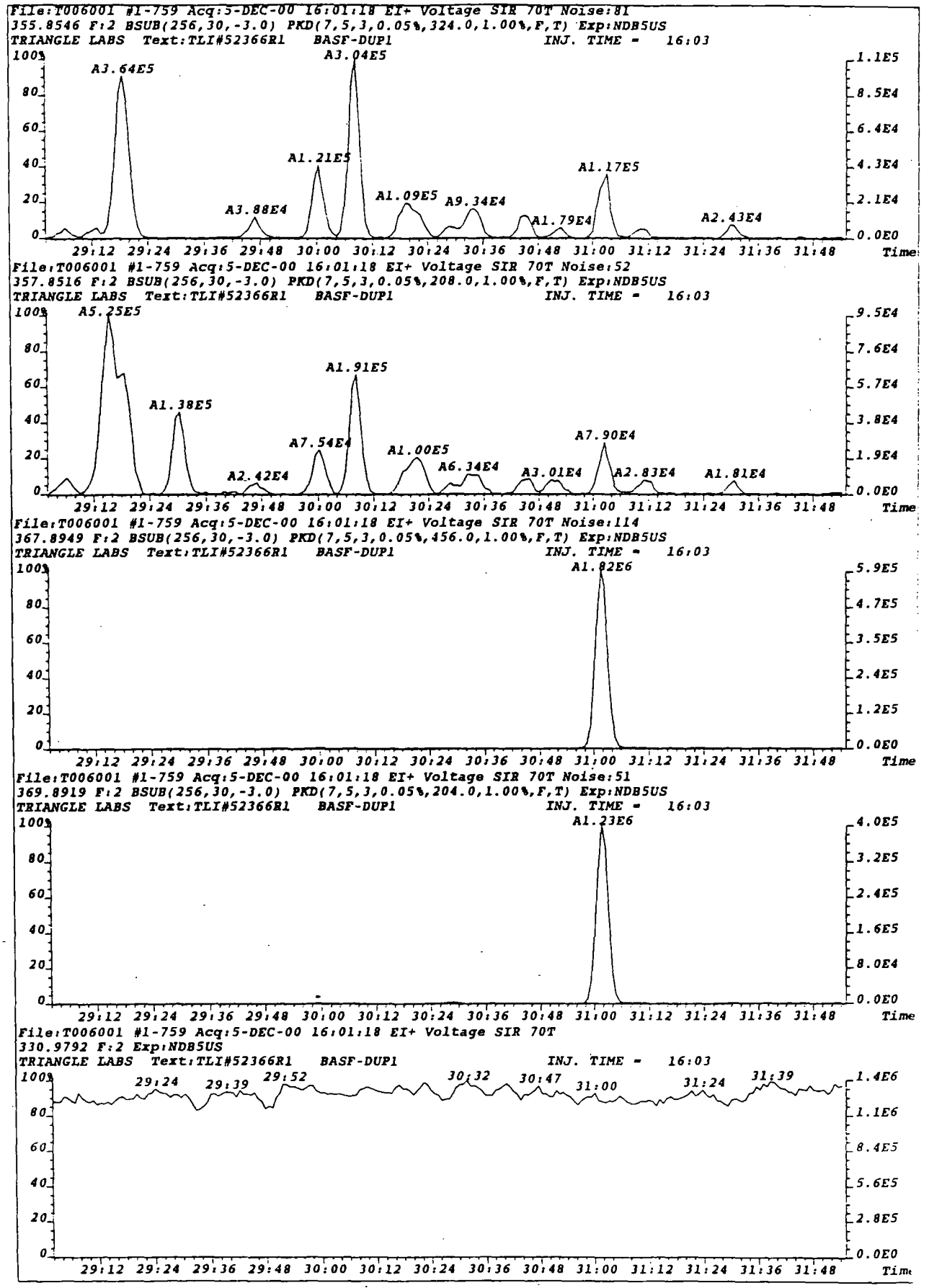
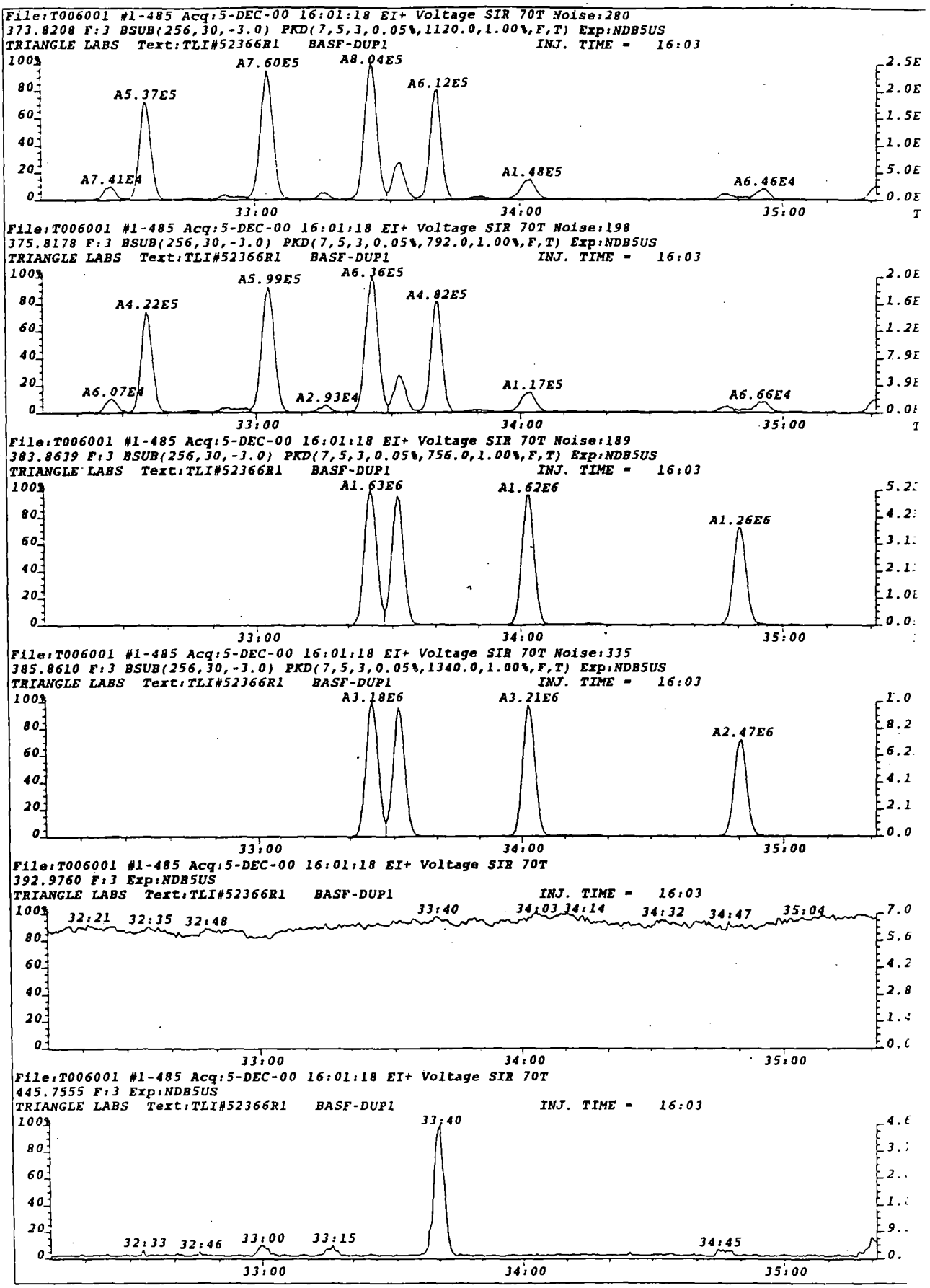
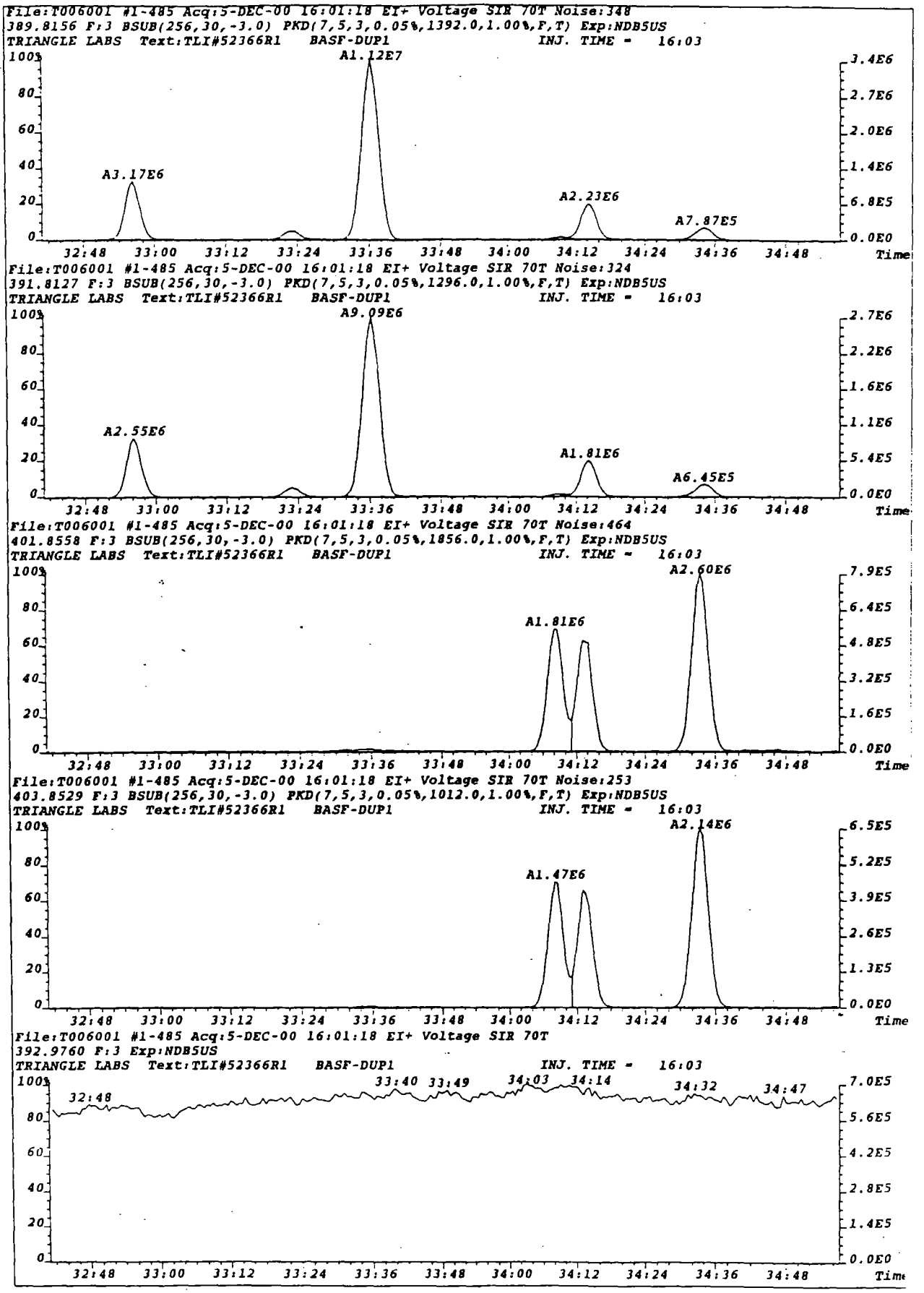
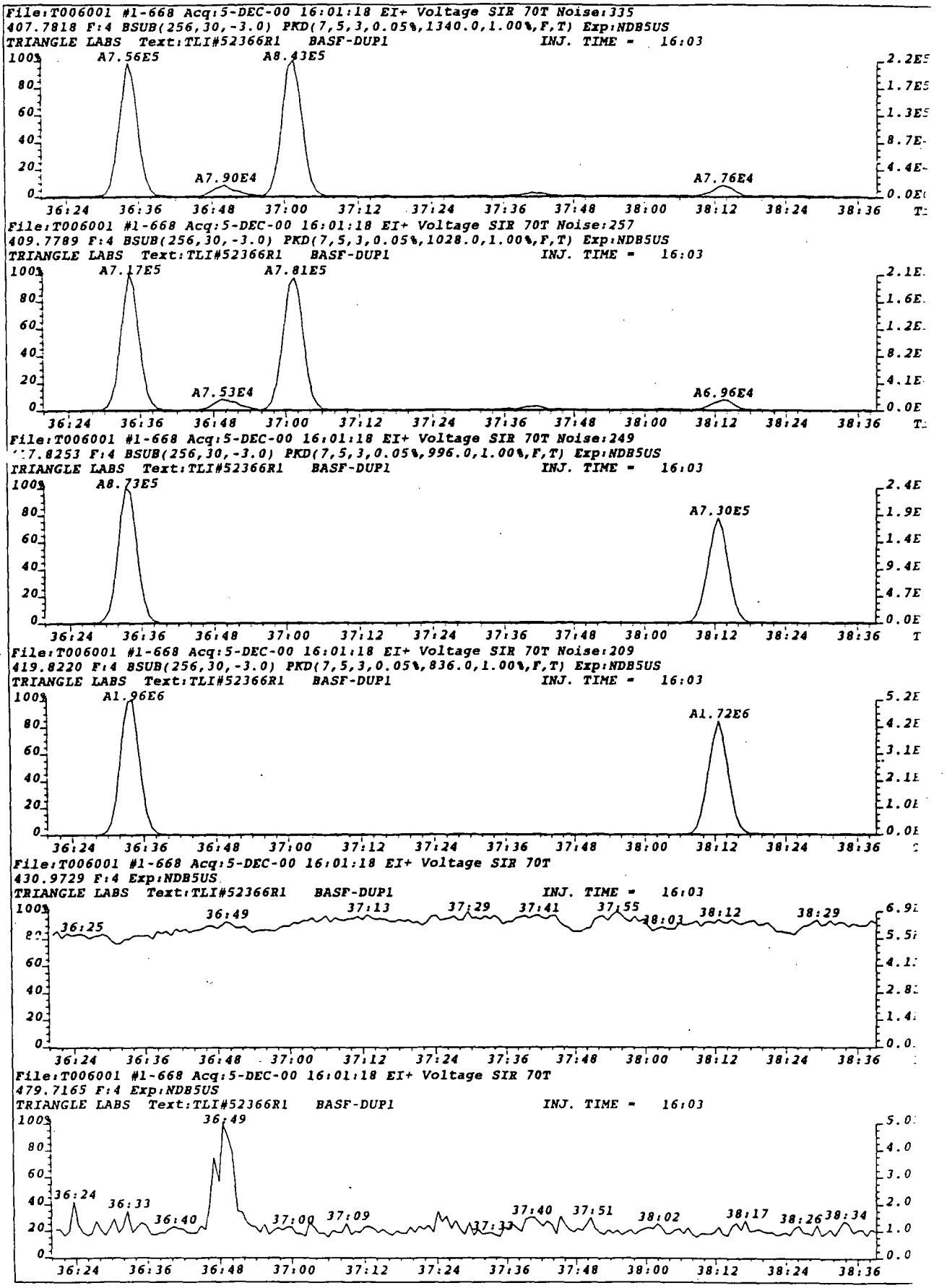
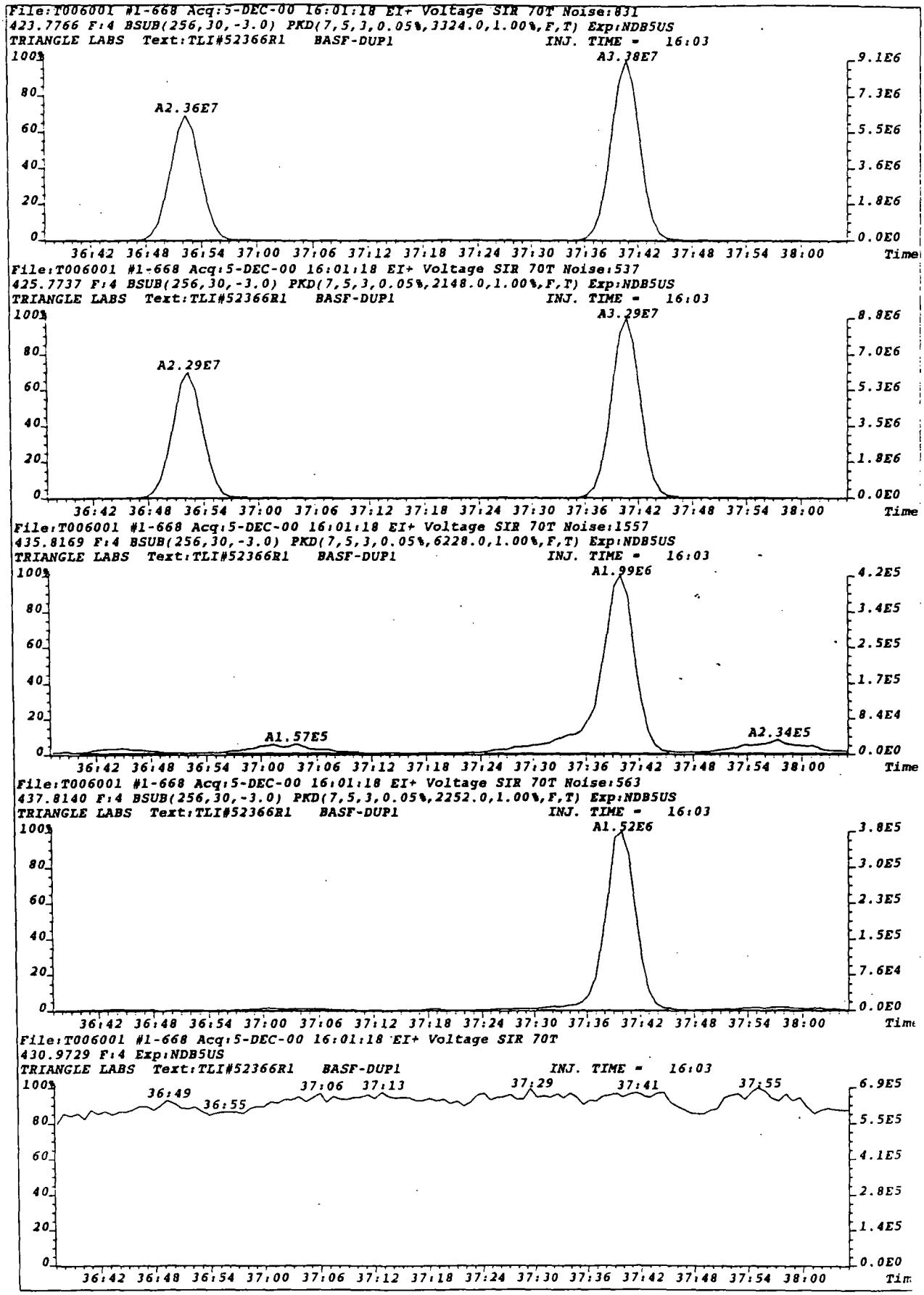
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,916.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A1.29E6
A6.53E5
A4.85E5
A3.76E5
A2.68E5
A2.51E5
A1.96E5
A9.13E4
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:121
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,484.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A8.55E5
A4.44E5
A3.13E5
A2.45E5
A1.66E5
A1.72E5
A1.25E5
A5.82E4
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:93
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3 0.05%,372.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A2.87E6
A2.89E6
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:159
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,636.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A1.95E6
A1.90E6
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
28:10
28:39
28:55
29:24
29:52
30:32
30:47
31:06
31:24
31:39
31:53
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
30:03
31:23
30:18
28:00
29:00
30:00
31:00
32:00

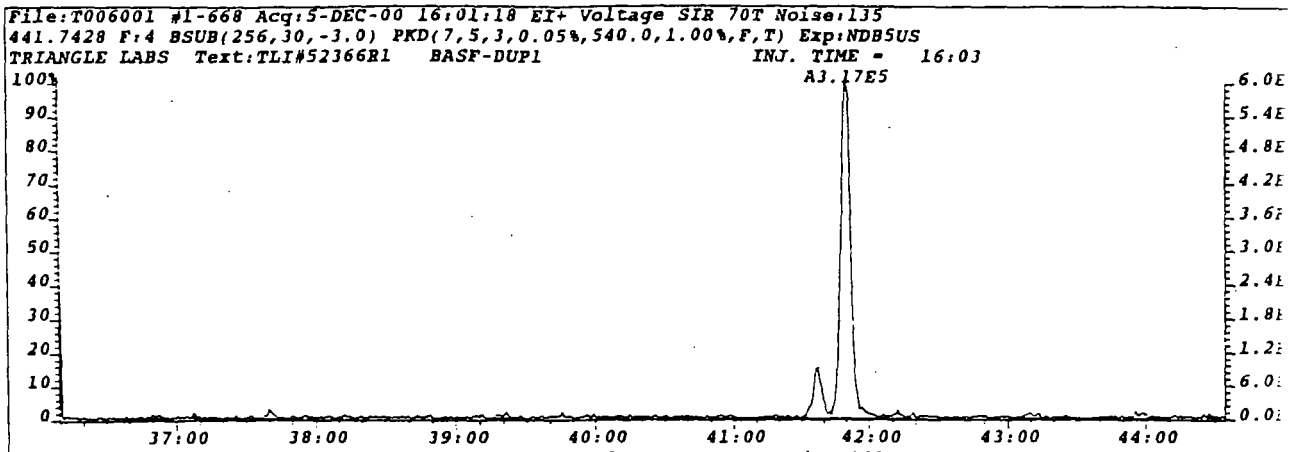

File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:81
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,324.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A3.64E5
A3.04E5
A1.21E5
A1.09E5
A9.34E4
A3.88E4
A1.79E4
A1.17E5
A2.43E4
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:52
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,208.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A5.25E5
A1.91E5
A1.38E5
A7.54E4
A1.00E5
A6.34E4
A2.42E4
A3.01E4
A7.90E4
A2.83E4
A1.81E4
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:114
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,456.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A1.82E6
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:51
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,204.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A1.23E6
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
29:24
29:39
29:52
30:32
30:47
31:00
31:24
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
Time

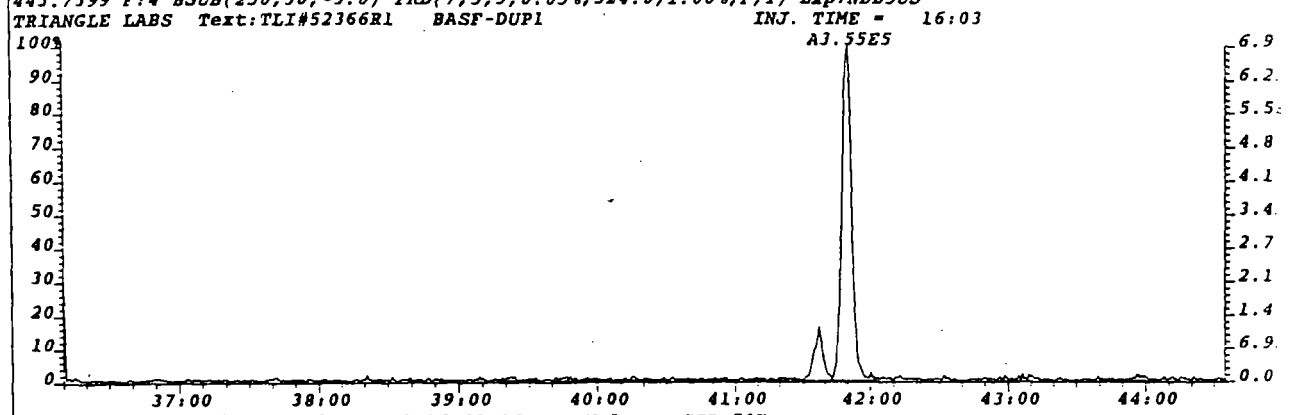

File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:280
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1120.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A7.60E5
A8.04E5
A5.37E5
A6.12E5
A7.41E4
A1.48E5
A6.46E4
33:00
34:00
35:00
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:198
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,792.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A5.99E5
A6.16E5
A4.22E5
A4.82E5
A6.07E4
A2.93E4
A1.17E5
A6.66E4
33:00
34:00
35:00
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:189
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,756.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A1.63E6
A1.62E6
A1.26E6
33:00
34:00
35:00
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:335
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1340.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A3.18E6
A3.21E6
A2.47E6
33:00
34:00
35:00
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
32:21
32:35
32:48
33:40
34:03
34:14
34:32
34:47
35:04
33:00
34:00
35:00
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
33:40
32:33
32:46
33:00
33:15
34:45
33:00
34:00
35:00

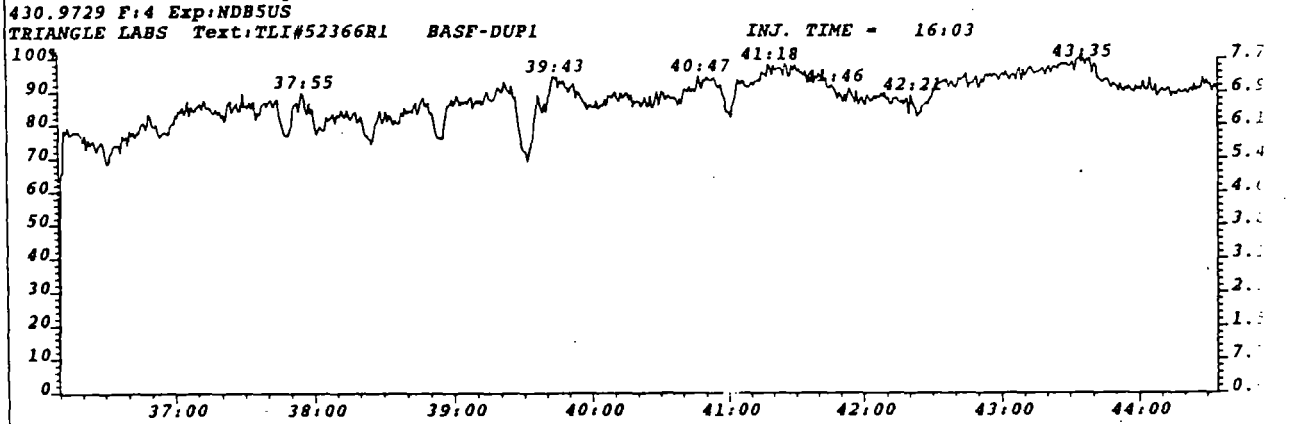

File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:348
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1392.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A1.12E7
A3.17E6
A2.23E6
A7.87E5
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:324
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1296.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A9.09E6
A2.55E6
A1.81E6
A6.45E5
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:464
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1856.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A2.60E6
A1.81E6
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:253
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1012.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A2.14E6
A1.47E6
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
32:48
33:40 33:49
34:03 34:14
34:32
34:47
32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48
Time

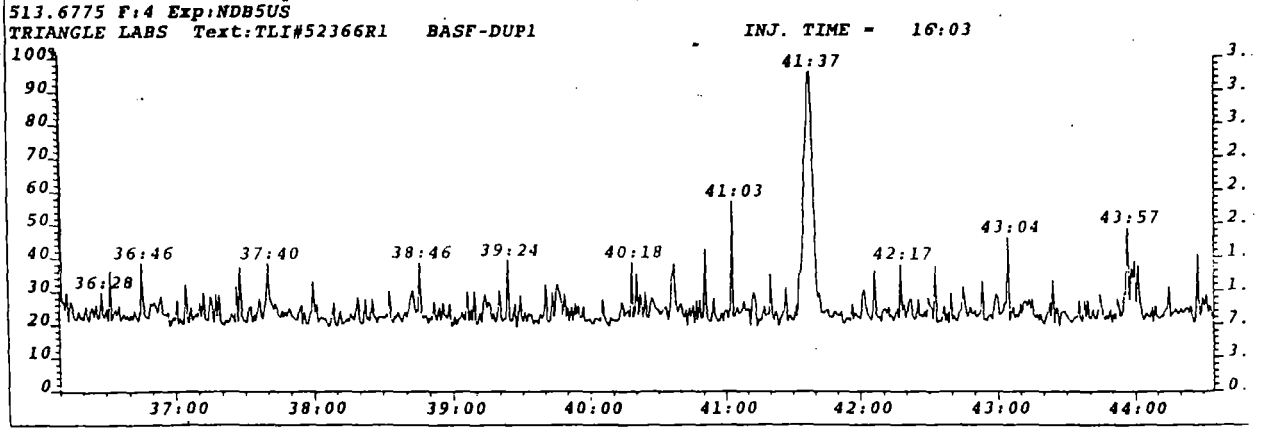

File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:335
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1340.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A7.56E5
A8.43E5
A7.90E4
A7.76E4
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:257
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1028.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A7.17E5
A7.81E5
A7.53E4
A6.96E4
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:249
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A8.73E5
A7.30E5
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:209
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,836.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A1.96E6
A1.72E6
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03

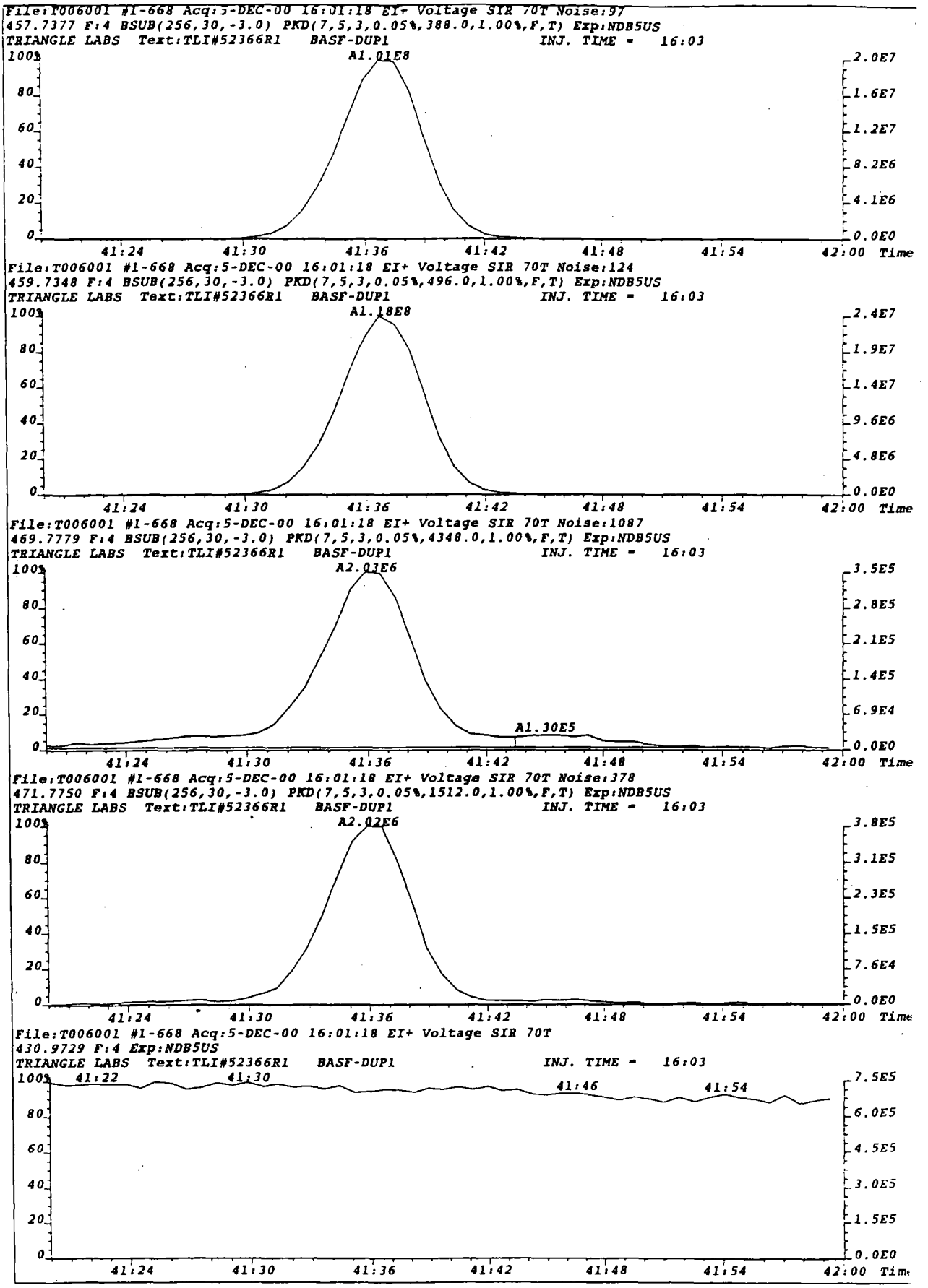

File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:831
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,3324.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A2.36E7
A3.38E7
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:537
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A2.29E7
A3.29E7
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:1557
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,6228.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A1.99E6
A1.57E5
A2.34E5
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:563
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A1.52E6
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
36:49
36:55
37:06
37:13
37:29
37:41
37:55

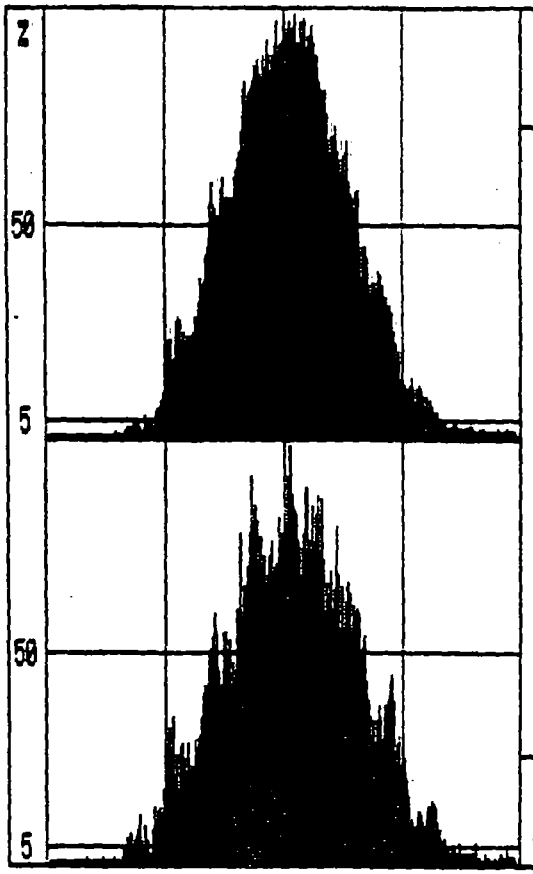

File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:135
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,540.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1
INJ. TIME = 16:03
A3.17E5
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00


File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:131
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,524.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1
INJ. TIME = 16:03
A3.55E5
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00

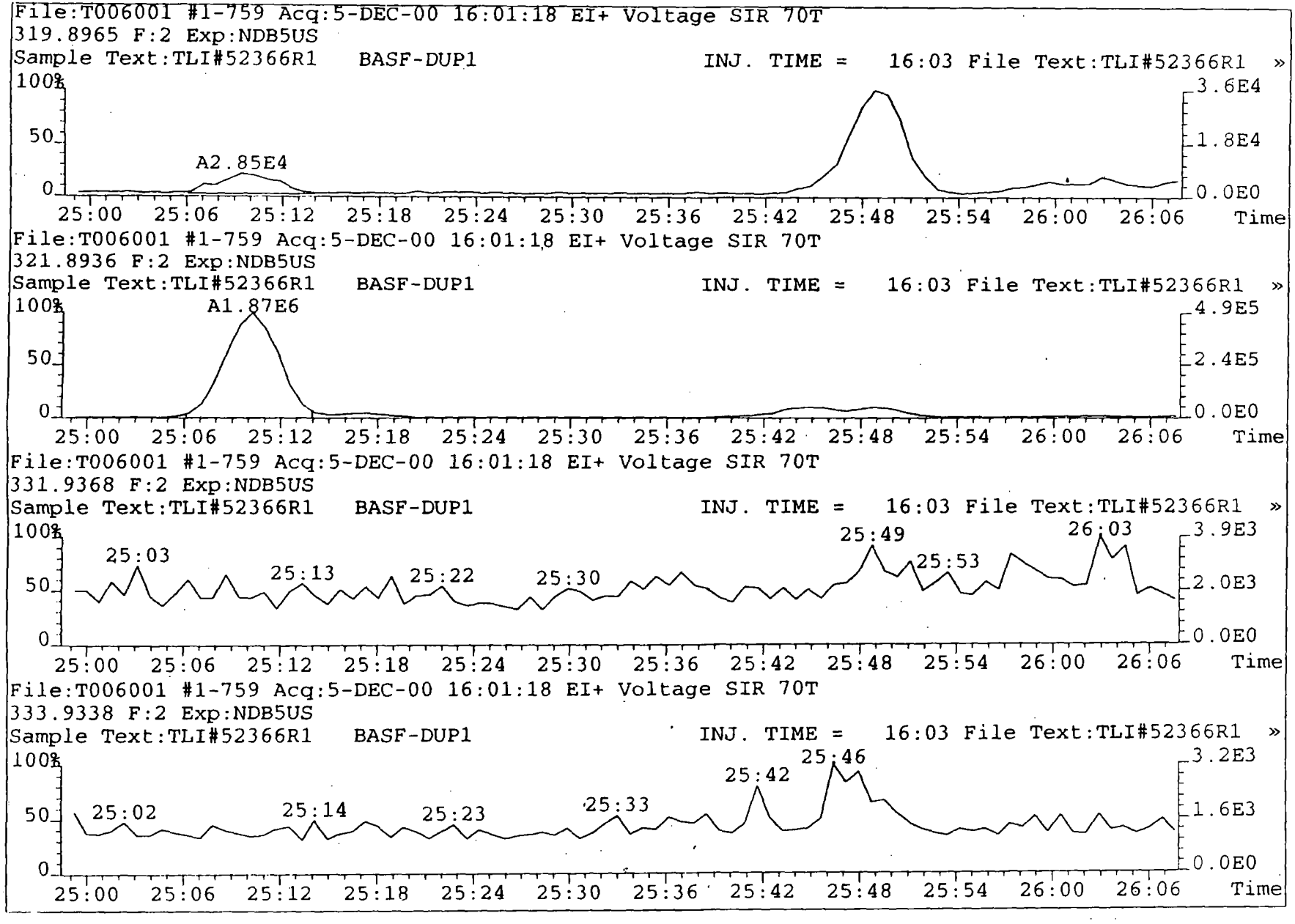

File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1
INJ. TIME = 16:03
37:55
39:43
40:47
41:18
42:22
43:35
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00

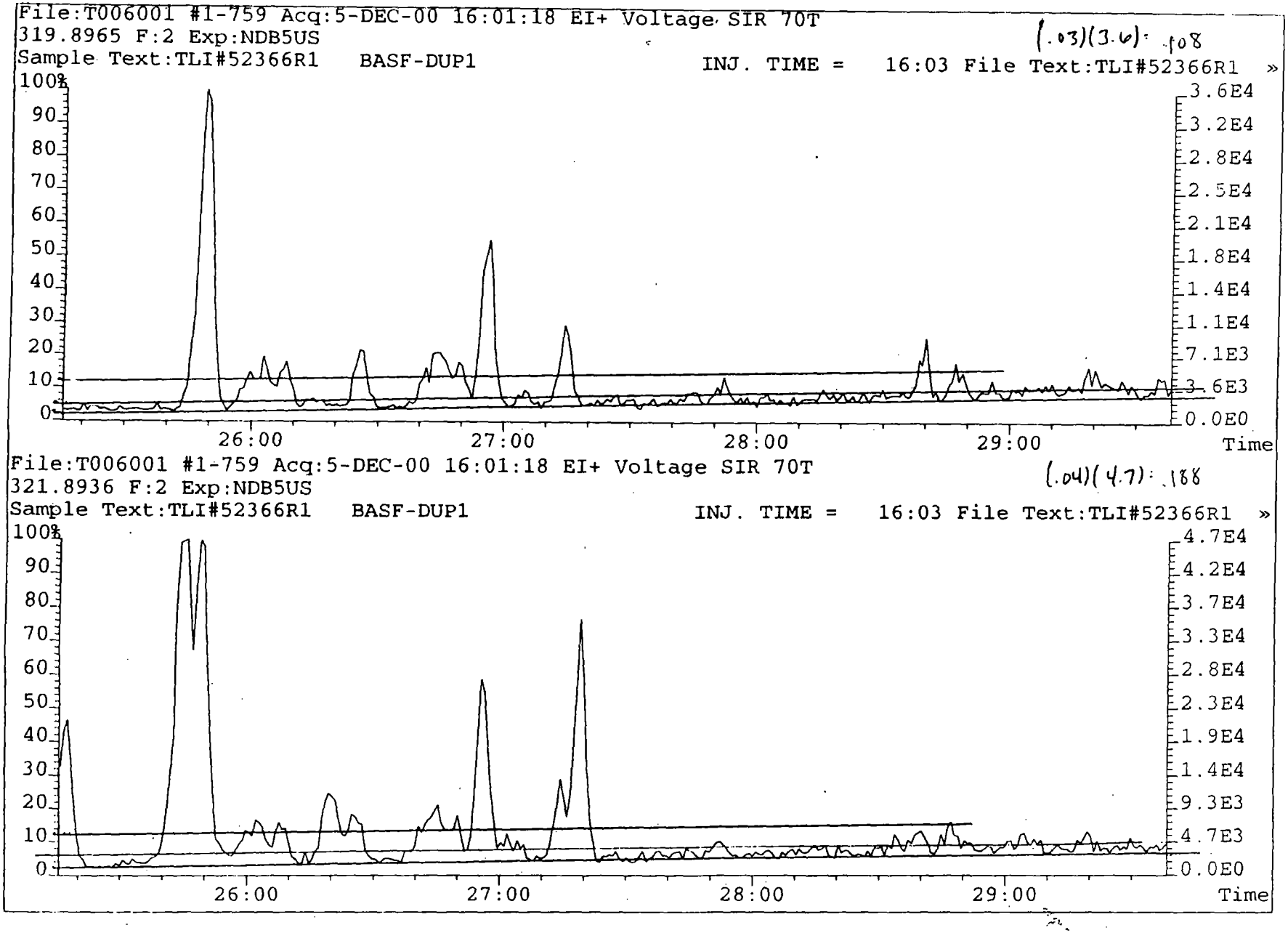

File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1
INJ. TIME = 16:03
41:37
41:03
36:46
37:40
38:46
39:24
40:18
42:17
43:04
43:57
36:28
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00


File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:97
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A1.01E8
2.0E7
1.6E7
1.2E7
8.2E6
4.1E6
0.0E0
41:24
41:30
41:36
41:42
41:48
41:54
42:00 Time
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:124
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,496.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A1.18E8
2.4E7
1.9E7
1.4E7
9.6E6
4.8E6
0.0E0
41:24
41:30
41:36
41:42
41:48
41:54
42:00 Time
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:1087
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,4348.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A2.03E6
A1.30E5
3.5E5
2.8E5
2.1E5
1.4E5
6.9E4
0.0E0
41:24
41:30
41:36
41:42
41:48
41:54
42:00 Time
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T Noise:378
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1512.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
A2.02E6
3.8E5
3.1E5
2.3E5
1.5E5
7.6E4
0.0E0
41:24
41:30
41:36
41:42
41:48
41:54
42:00 Time
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03
41:22
41:30
41:46
41:54
7.5E5
6.0E5
4.5E5
3.0E5
1.5E5
0.0E0
41:24
41:30
41:36
41:42
41:48
41:54
42:00 Time



Channel	I	330.9792		Peak top	
Height	.68 volts		Span	200 ppm	
System file name				MOBIUS	
Data file name				A:TD05003	
Resolution				10000	
Group number				2	
Ionization mode				EI+	
Switching				VOLTAGE	
Ref. masses	292.9825,			416.9760	
A	293	J	331	S	368
B	304	K	332	T	370
C	306	L	334	U	376
D	316	M	340	V	410
E	318	N	342		
F	320	O	352		
G	322	P	354		
H	328	Q	356		
I	331	R	358		
Ref. mass	416.9760			Peak top	
Height	.13 volts		Span	200 ppm	


File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
319.8965 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
A2.85E4
3.6E4
1.8E4
0.0E0
25:00 25:06 25:12 25:18 25:24 25:30 25:36 25:42 25:48 25:54 26:00 26:06 Time
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
321.8936 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
A1.87E6
4.9E5
2.4E5
0.0E0
25:00 25:06 25:12 25:18 25:24 25:30 25:36 25:42 25:48 25:54 26:00 26:06 Time
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
331.9368 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
25:03
25:13
25:22
25:30
25:49
25:53
26:03
3.9E3
2.0E3
0.0E0
25:00 25:06 25:12 25:18 25:24 25:30 25:36 25:42 25:48 25:54 26:00 26:06 Time
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
333.9338 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
25:02
25:14
25:23
25:33
25:42
25:46
3.2E3
1.6E3
0.0E0
25:00 25:06 25:12 25:18 25:24 25:30 25:36 25:42 25:48 25:54 26:00 26:06 Time

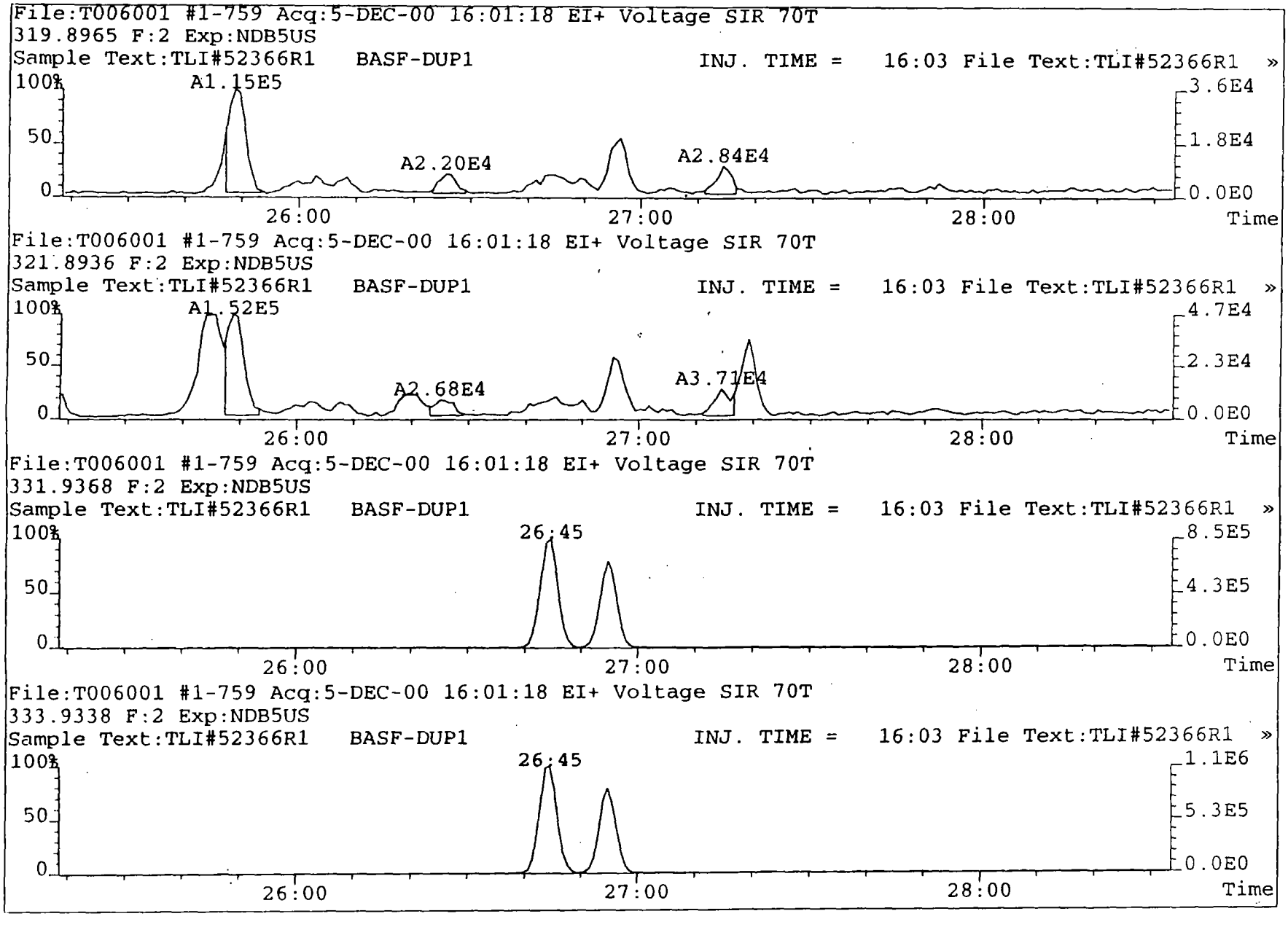


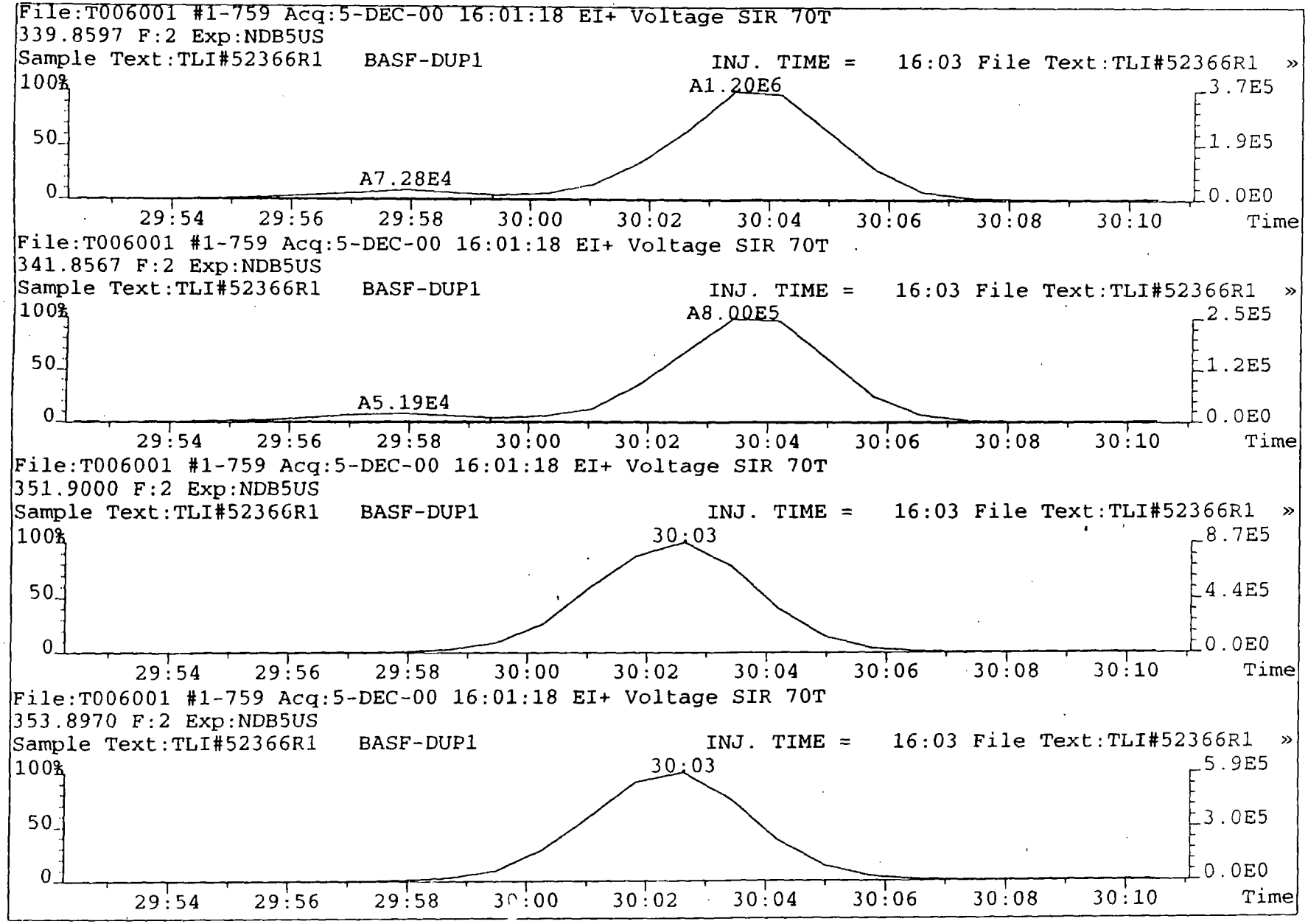
(.03)(3.6) = .108

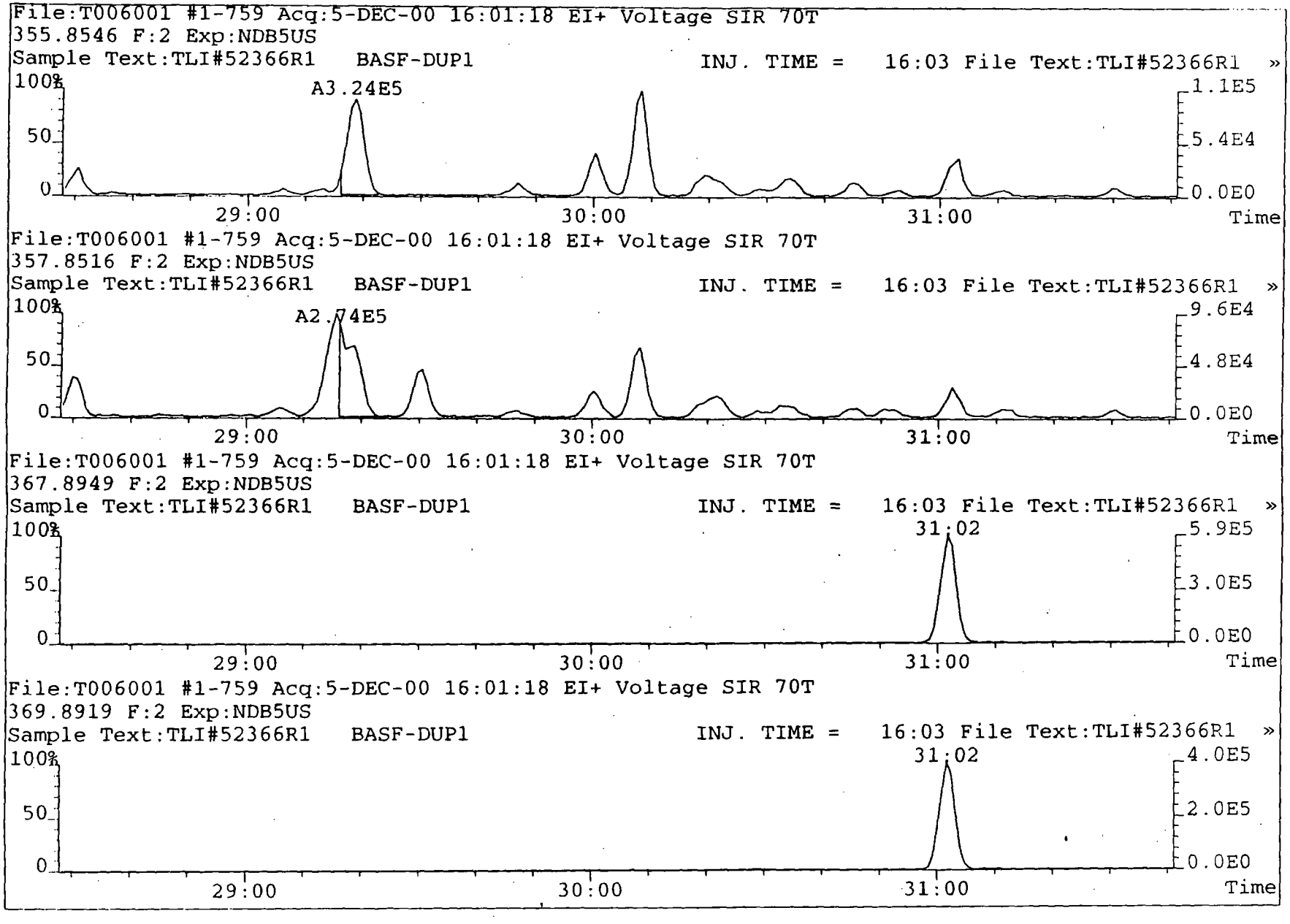
(.04)(4.7) = .188

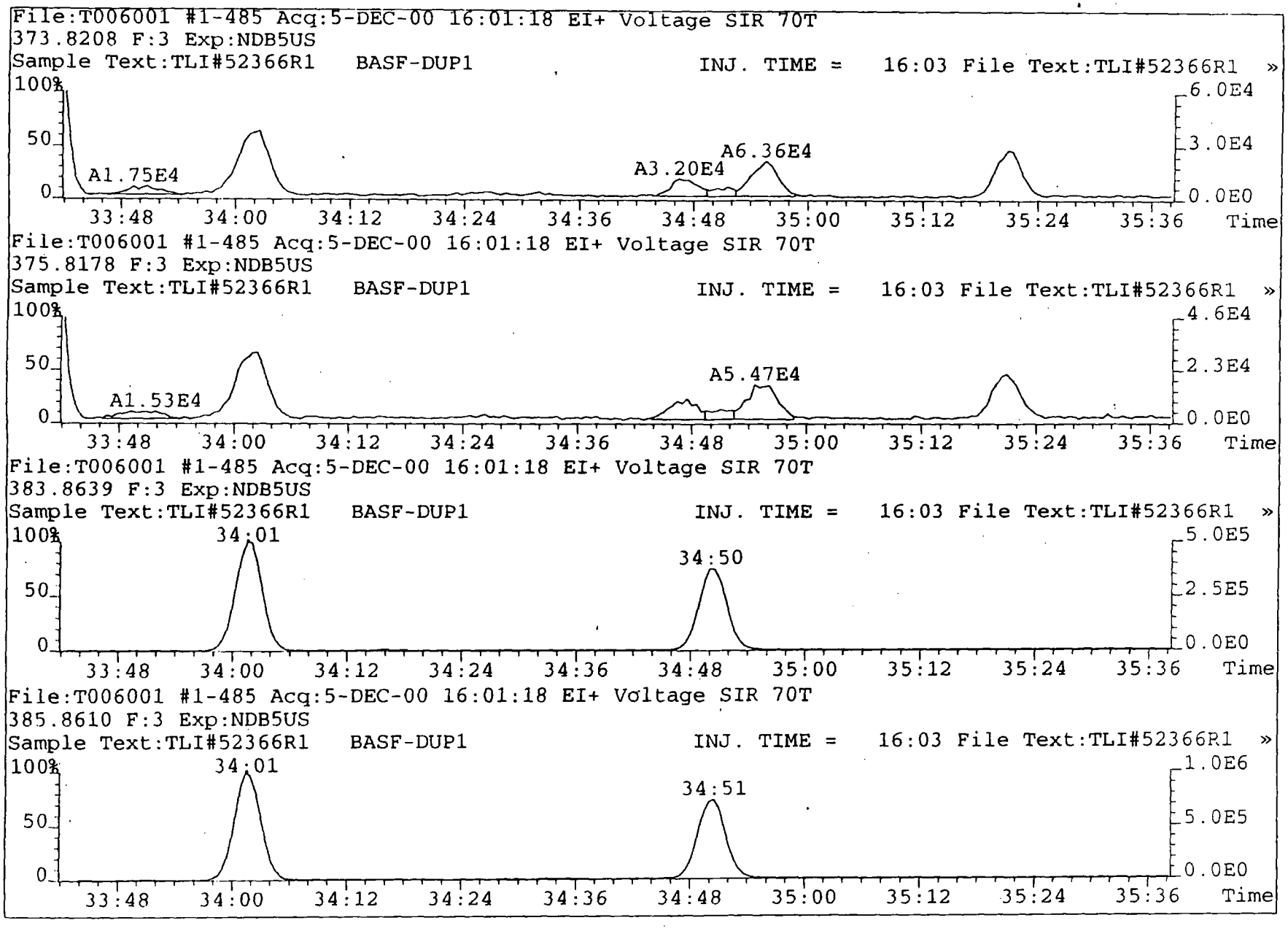
.108
.188
.296

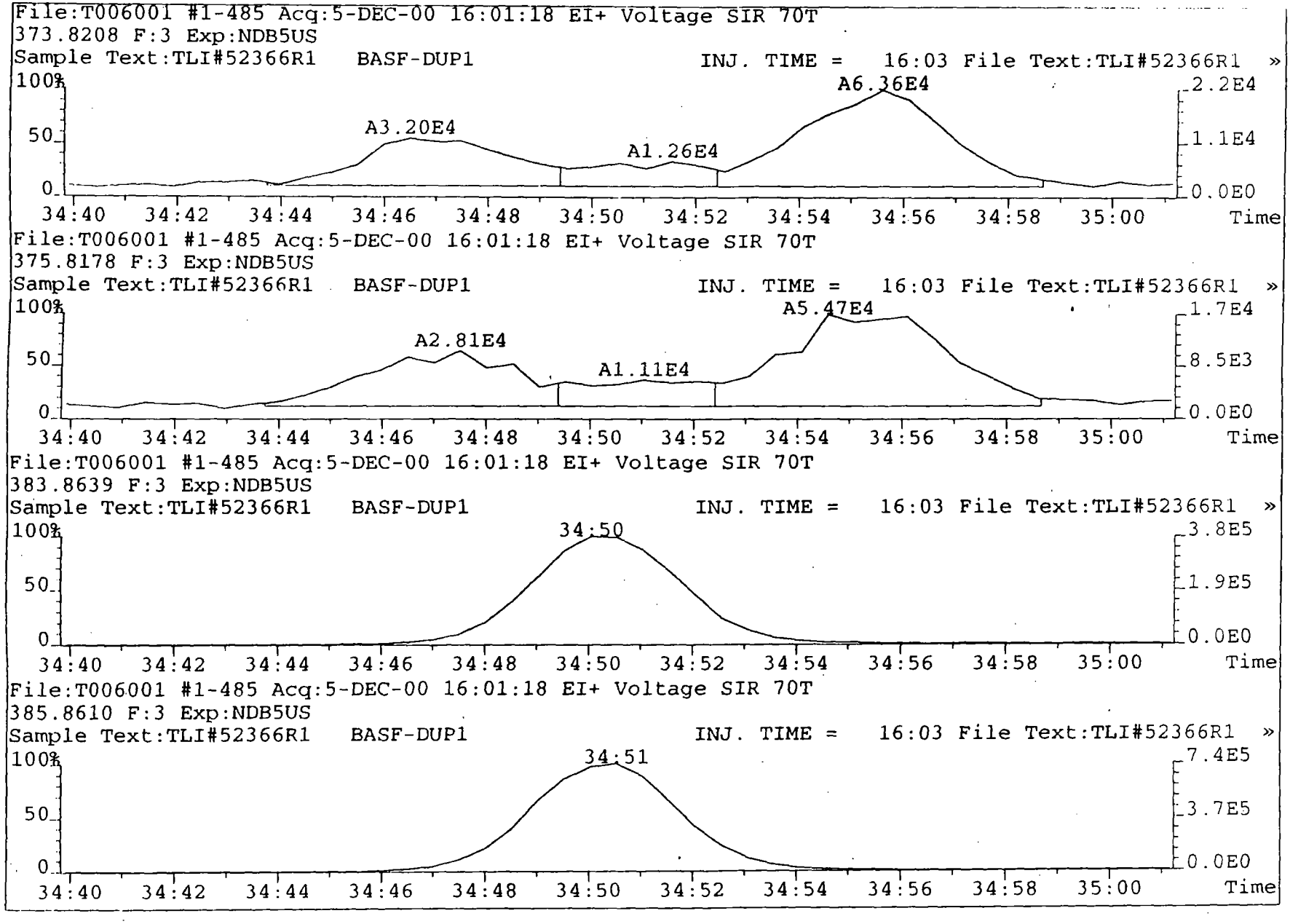
JCA
12/13/00

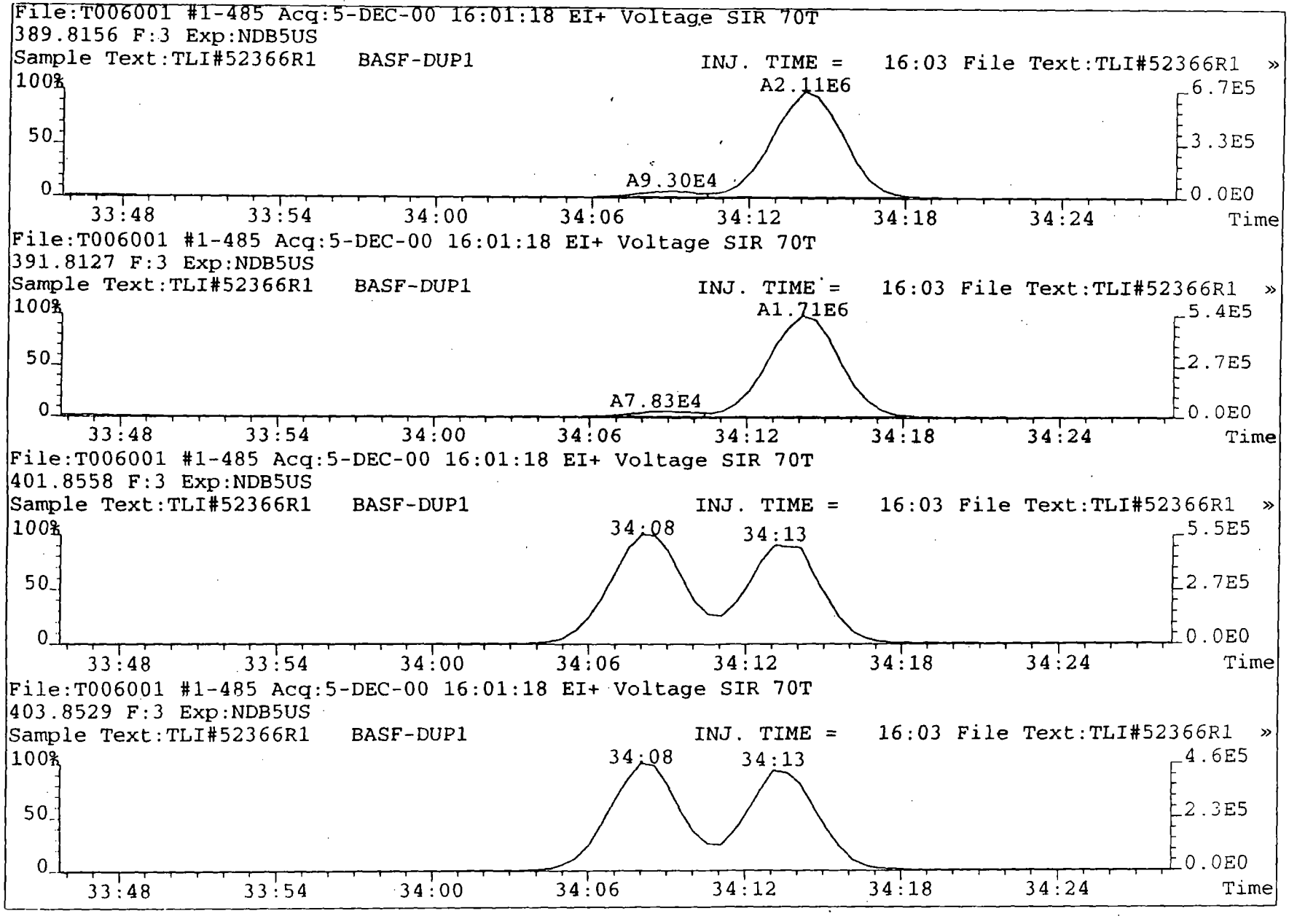

File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
319.8965 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
A1.15E5
A2.20E4
A2.84E4
3.6E4
1.8E4
0.0E0
26:00
27:00
28:00
Time
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
321.8936 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
A1.52E5
A2.68E4
A3.71E4
4.7E4
2.3E4
0.0E0
26:00
27:00
28:00
Time
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
331.9368 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
26:45
8.5E5
4.3E5
0.0E0
26:00
27:00
28:00
Time
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
333.9338 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
26:45
1.1E6
5.3E5
0.0E0
26:00
27:00
28:00
Time

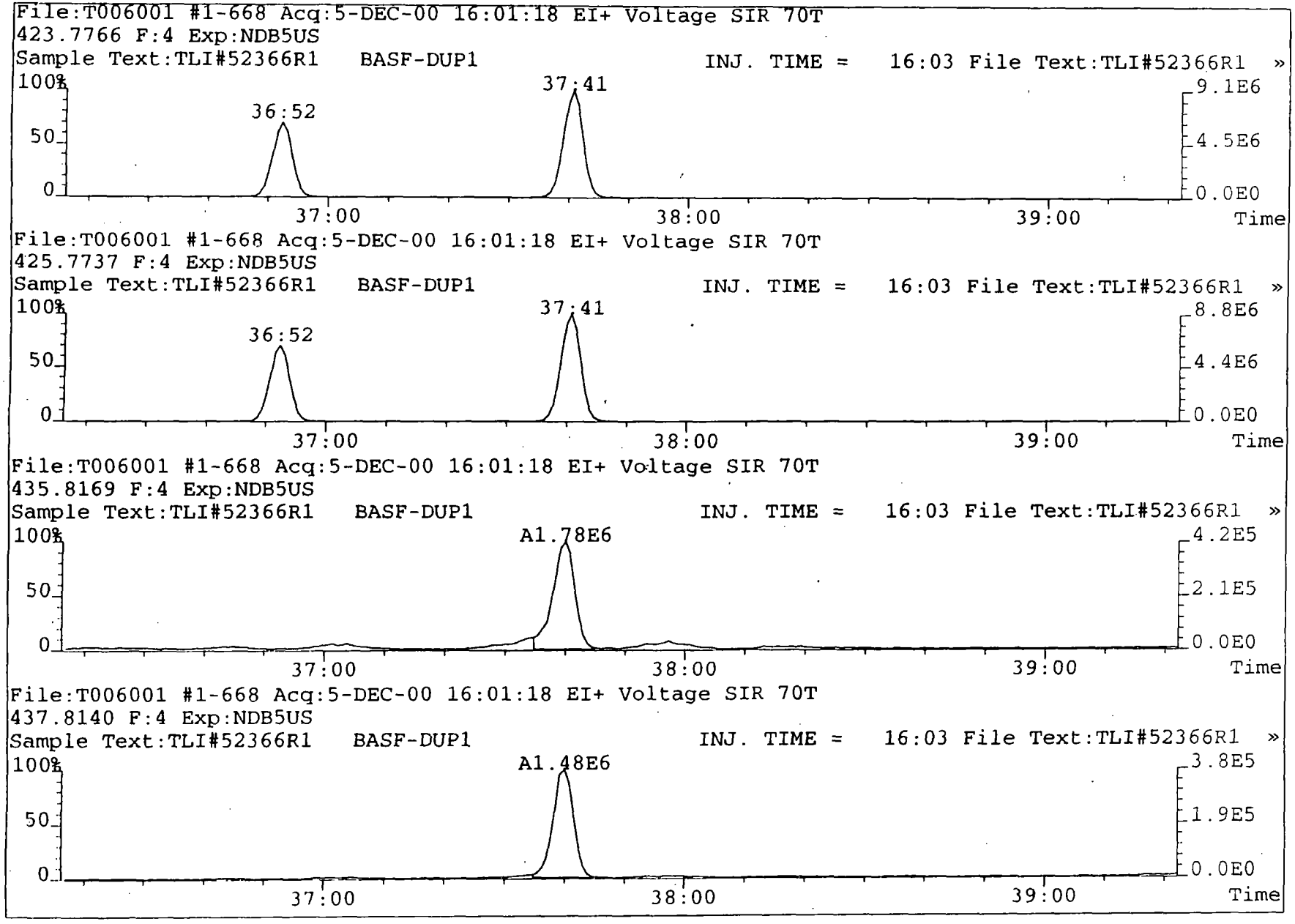

File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
339.8597 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
A1.20E6
A7.28E4
3.7E5
1.9E5
0.0E0
29:54 29:56 29:58 30:00 30:02 30:04 30:06 30:08 30:10 Time
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
341.8567 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
A8.00E5
A5.19E4
2.5E5
1.2E5
0.0E0
29:54 29:56 29:58 30:00 30:02 30:04 30:06 30:08 30:10 Time
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
351.9000 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
30:03
8.7E5
4.4E5
0.0E0
29:54 29:56 29:58 30:00 30:02 30:04 30:06 30:08 30:10 Time
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
353.8970 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
30:03
5.9E5
3.0E5
0.0E0
29:54 29:56 29:58 30:00 30:02 30:04 30:06 30:08 30:10 Time

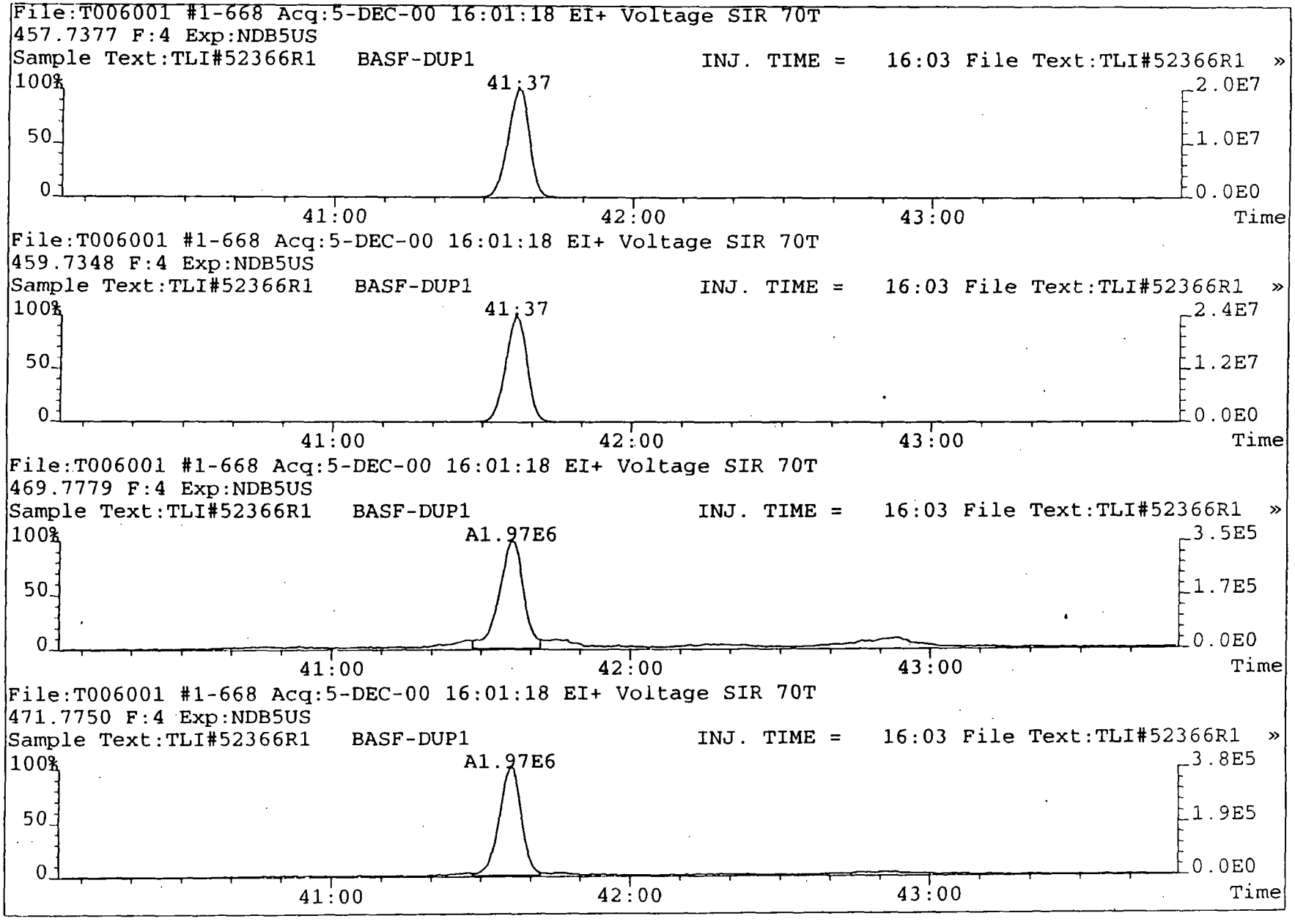

File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
355.8546 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
A3.24E5
1.1E5
5.4E4
0.0E0
29:00
30:00
31:00
Time
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
357.8516 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
A2.74E5
9.6E4
4.8E4
0.0E0
29:00
30:00
31:00
Time
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
367.8949 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
31:02
5.9E5
3.0E5
0.0E0
29:00
30:00
31:00
Time
File:T006001 #1-759 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
369.8919 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
31:02
4.0E5
2.0E5
0.0E0
29:00
30:00
31:00
Time

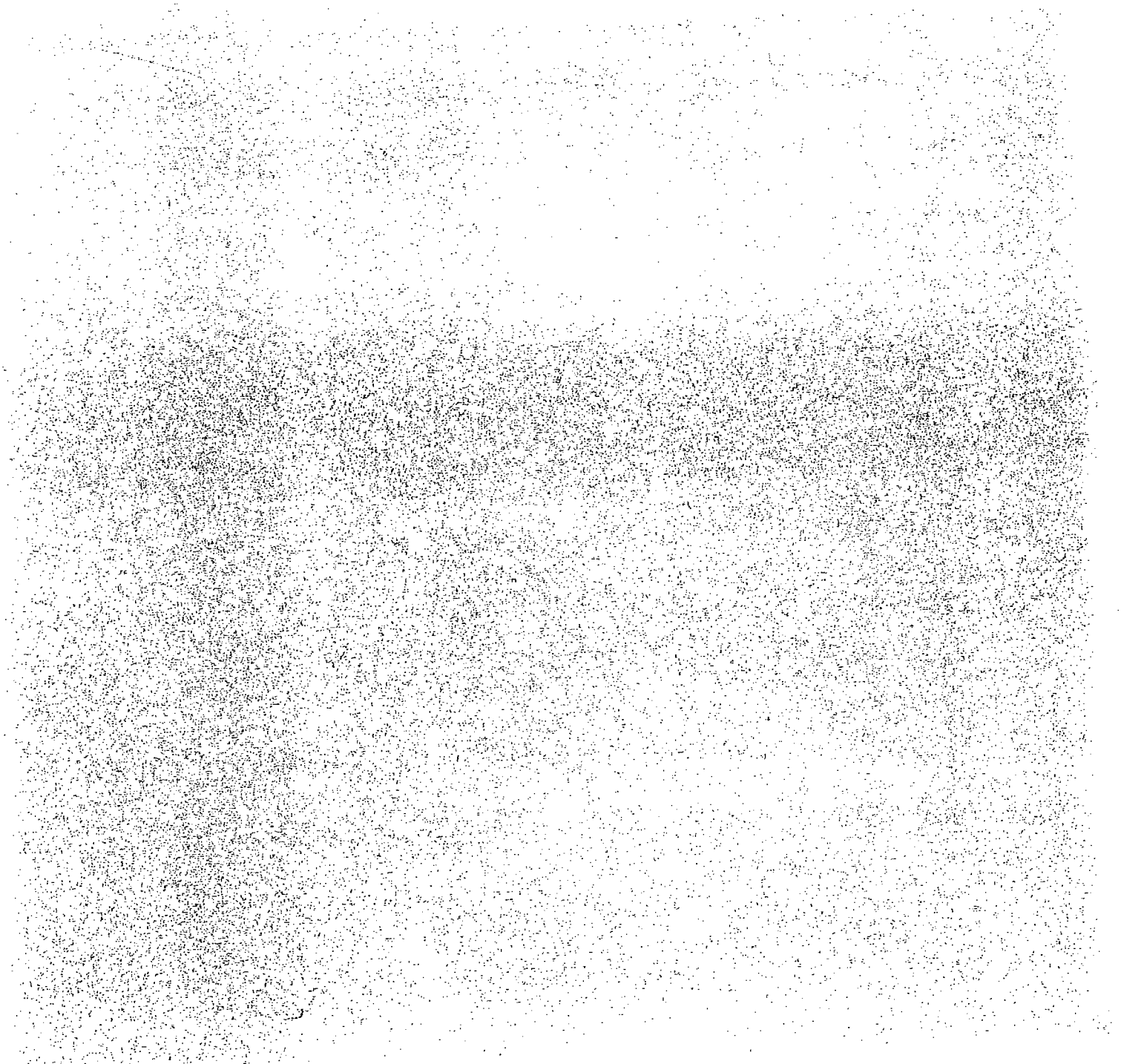

File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
373.8208 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
A1.75E4
A3.20E4
A6.36E4
6.0E4
3.0E4
0.0E0
33:48 34:00 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 Time
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
375.8178 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
A1.53E4
A5.47E4
4.6E4
2.3E4
0.0E0
33:48 34:00 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 Time
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
383.8639 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
34:01
34:50
5.0E5
2.5E5
0.0E0
33:48 34:00 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 Time
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
385.8610 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
34:01
34:51
1.0E6
5.0E5
0.0E0
33:48 34:00 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 Time


File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
373.8208 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
A3.20E4
A1.26E4
A6.36E4
2.2E4
1.1E4
0.0E0
34:40 34:42 34:44 34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 Time
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
375.8178 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
A2.81E4
A1.11E4
A5.47E4
1.7E4
8.5E3
0.0E0
34:40 34:42 34:44 34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 Time
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
383.8639 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
34:50
3.8E5
1.9E5
0.0E0
34:40 34:42 34:44 34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 Time
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
385.8610 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
34:51
7.4E5
3.7E5
0.0E0
34:40 34:42 34:44 34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 Time


File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
389.8156 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1
INJ. TIME = 16:03 File Text:TLI#52366R1
A2.11E6
A9.30E4
6.7E5
3.3E5
0.0E0
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
391.8127 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1
INJ. TIME = 16:03 File Text:TLI#52366R1
A1.71E6
A7.83E4
5.4E5
2.7E5
0.0E0
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
401.8558 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1
INJ. TIME = 16:03 File Text:TLI#52366R1
34:08
34:13
5.5E5
2.7E5
0.0E0
File:T006001 #1-485 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
403.8529 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1
INJ. TIME = 16:03 File Text:TLI#52366R1
34:08
34:13
4.6E5
2.3E5
0.0E0
100%
50
0
33:48
33:54
34:00
34:06
34:12
34:18
34:24
Time


File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
423.7766 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
36:52
37:41
9.1E6
4.5E6
0.0E0
37:00
38:00
39:00
Time
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
425.7737 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
36:52
37:41
8.8E6
4.4E6
0.0E0
37:00
38:00
39:00
Time
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
435.8169 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
A1.78E6
4.2E5
2.1E5
0.0E0
37:00
38:00
39:00
Time
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
437.8140 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
100%
50
0
A1.48E6
3.8E5
1.9E5
0.0E0
37:00
38:00
39:00
Time


File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
457.7377 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
41:37
100%
50
0
2.0E7
1.0E7
0.0E0
41:00
42:00
43:00
Time
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
459.7348 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
41:37
2.4E7
1.2E7
0.0E0
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
469.7779 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
A1.97E6
3.5E5
1.7E5
0.0E0
File:T006001 #1-668 Acq:5-DEC-00 16:01:18 EI+ Voltage SIR 70T
471.7750 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 16:03 File Text:TLI#52366R1
A1.97E6
3.8E5
1.9E5
0.0E0



TriMatrix, Inc.

TLI Project: **52366r1** Method 8290 TCDD/TCDF Analysis (DB-2
Client Sample: **BASF-DUP1** Analysis File: **P004**

Client Project:	BASF-Malcolm Pirnie				
Sample Matrix:	WATER	Date Received:	11/17/2000	Spike File:	SPC2NF2
TLI ID:	274-99-4B	Date Extracted:	12/01/2000	ICal:	PF2O230
		Date Analyzed:	12/05/2000	ConCal:	P004403
Sample Size:	1.060 L	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T005998	% Lipid:	n/a
GC Column:	DB-225	Analyst:	DFS	% Solids:	n/a

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flag
2,3,7,8-TCDF	327			0.76	23:57	

Internal Standard	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-2,3,7,8-TCDF	1340	71.0	40%-130%	0.75	23:56	

Recovery Standard	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,4-TCDD	0.83	22:45	

Data Reviewer: JCA 12/13/2000

Triangle Laboratories, Inc.
801 Capitola Drive • Durham, North Carolina 27713
Phone: (919) 544-5729 • Fax: (919) 544-5491

Printed: 17:39 12/1

Initial ....Date...

Data Review By: JCA 12/13/00

Calculated Noise Height: 0.09

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 P004410B.dbf
12/13/2000 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_2....	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					0.791-1.103				
304-306		DC	NL		Height			0.16	0.08	0.08				
					19:10	RO	1.59	1.20	1.08	0.68	0.987			J
					19:16	RO	3.87	2.11	4.61	1.19	0.992			J
					19:21	RO	1.81	4.11	4.20	2.32	0.997			
	N				19:28	RO	1.38	1.84	1.43	1.04	1.003			J
					19:47	RO	6.41	4.69	16.99	2.65	1.019			
					19:55	RO	1.43	2.09	1.69	1.18	1.026			J
					20:06	RO	0.92	4.07	2.12	2.30	1.035			
					20:12		0.71	23.20	9.67	13.53	1.040			
					20:20		0.67	13.31	5.32	7.99	1.047			
					20:32	RO	0.93	9.43	4.95	5.33	1.058			
					20:38		0.74	47.88	20.34	27.54	1.063			
					20:53	RO	1.68	9.52	9.04	5.38	1.076			
					21:04		0.76	51.33	22.21	29.12	1.085			
					21:12		0.65	15.63	6.17	9.46	1.092			
					21:23		0.75	103.04	44.03	59.01	1.101			
		DC	WH		21:32	RO	0.61	21.06			1.109			
		DC	WH		21:55		0.72	66.57			1.129			
		DC	WH		22:12	RO	0.53	0.80			1.143			
		DC	WH		22:26		0.78	175.85			1.155			
		DC	WH		22:35	RO	0.38	3.65			1.163			
		DC	WH		22:42		0.76	25.20			1.169			
		DC	WH		22:58		0.79	19.36			1.183			
		DC	WH		23:20		0.70	196.43			1.202			
		DC	WH		23:28		0.78	334.95			1.209			
		DC	WH		23:45		0.73	417.02			1.223			
	KN				23:57		0.76	115.75	49.85	65.90	1.233	2378-TCDF		AN
		DC	WH		24:11		0.69	28.87			1.245			
		DC	WH		24:24		0.66	23.40			1.257			
		DC	WH		24:39	RO	1.44	34.25			1.270			
		DC	WH		24:48		0.69	191.25			1.277			
		DC	WH		25:26		0.77	236.88			1.310			
		DC	WH		26:14		0.80	3.86			1.351			
		DC	WH		26:34		0.76	1,164.06			1.368			
304-306			16	Peaks				409.20						
13C12-TCDF					0.65-0.89					0.958-1.042				
316-318		DC	NL		Height			0.38	0.13	0.25				
					18:54	RO	1.01	7.13	4.09	4.03	0.973			
					19:04	RO	1.45	3.50	2.88	1.98	0.982			
					19:10	RO	1.19	3.13	2.10	1.77	0.987			
	DN	D	SN		19:25		0.77	1,434.45			1.000			
					19:37		0.77	1.01	0.44	0.57	1.010			

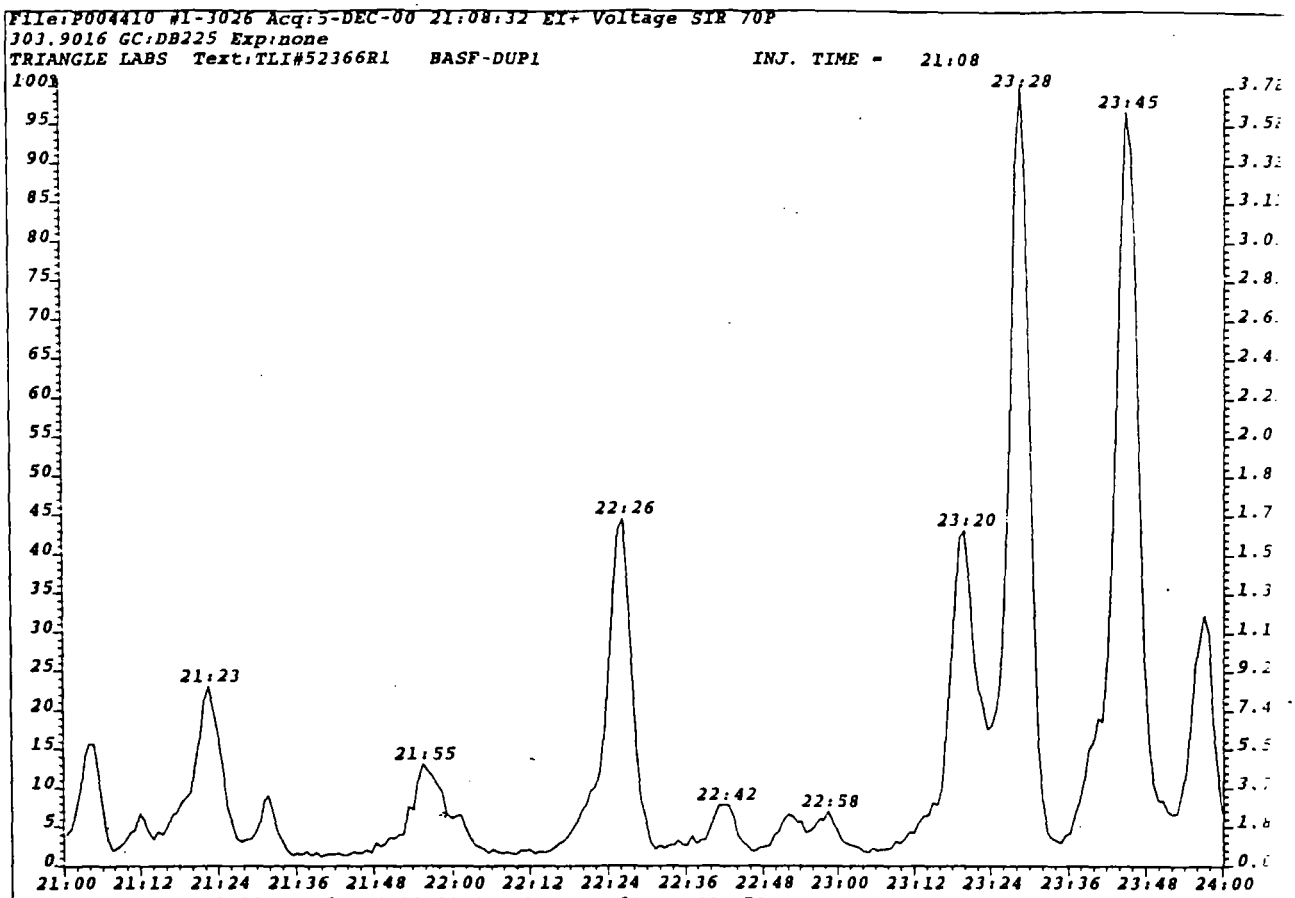
Compound M_Z....	QC.Log	Cmit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
		DC	WH	20:16	RO	0.97	17.36			1.044			
		DC	WH	20:32	RO	0.42	1.56			1.058			
		DC	WH	20:37		0.71	24.39			1.062			
		DC	WH	21:30	RO	0.50	2.07			1.107			
		DC	WH	22:16	RO	0.26	0.80			1.147			
		DC	WH	22:26	RO	0.34	1.40			1.155			
		DC	WH	22:43	RO	0.19	1.33			1.170			
	KN			23:56		0.75	706.29	303.53	402.76	1.233	13C12-2378-TCDF	IS0	
						Height	141.17	63.56	77.61				
		DC	WH	24:37	RO	0.56	1.24			1.268			
		DC	WH	25:04	RO	1.57	2.19			1.291			
		DC	WH	26:11	RO	1.31	6.99			1.348			
316-318			5	Peaks			721.06						

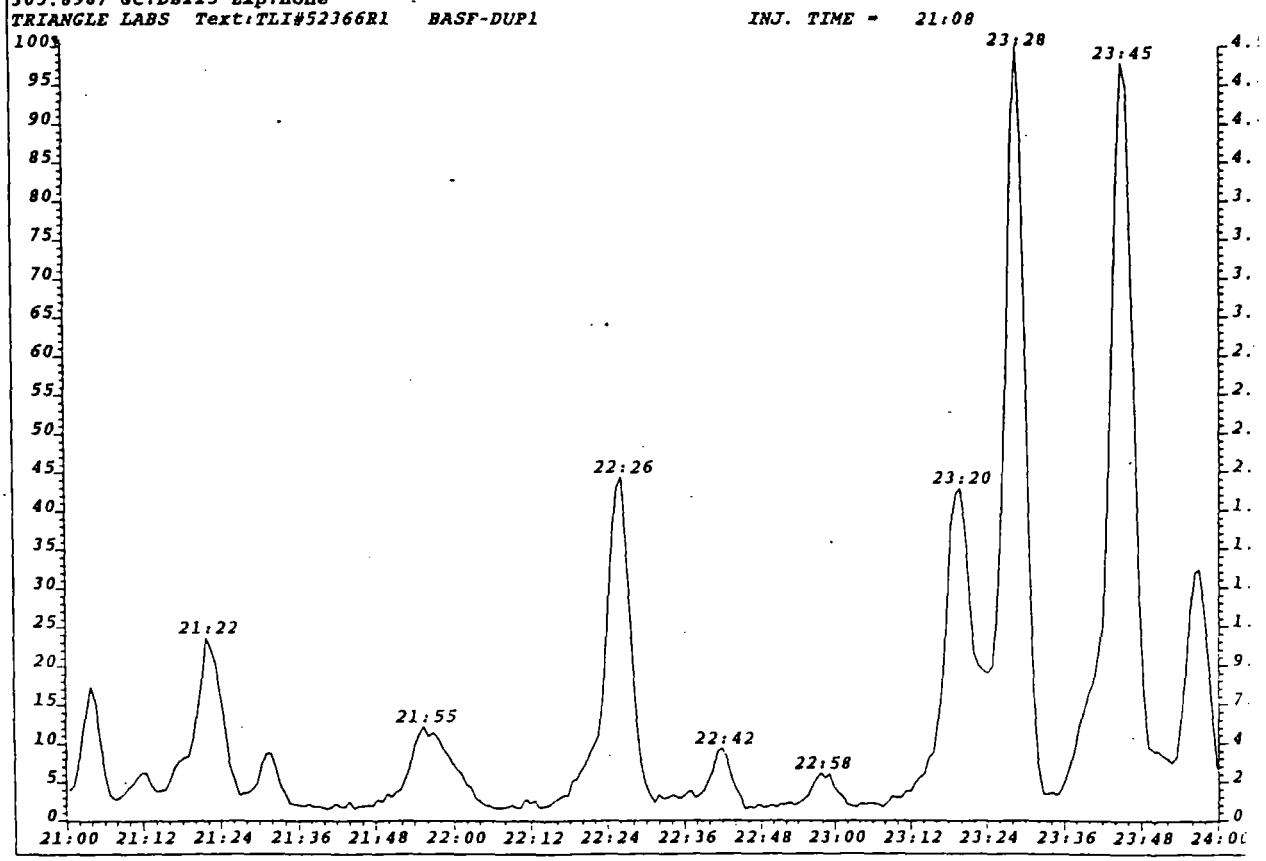
---------- Above: TCDF / TCDD Follows ----------

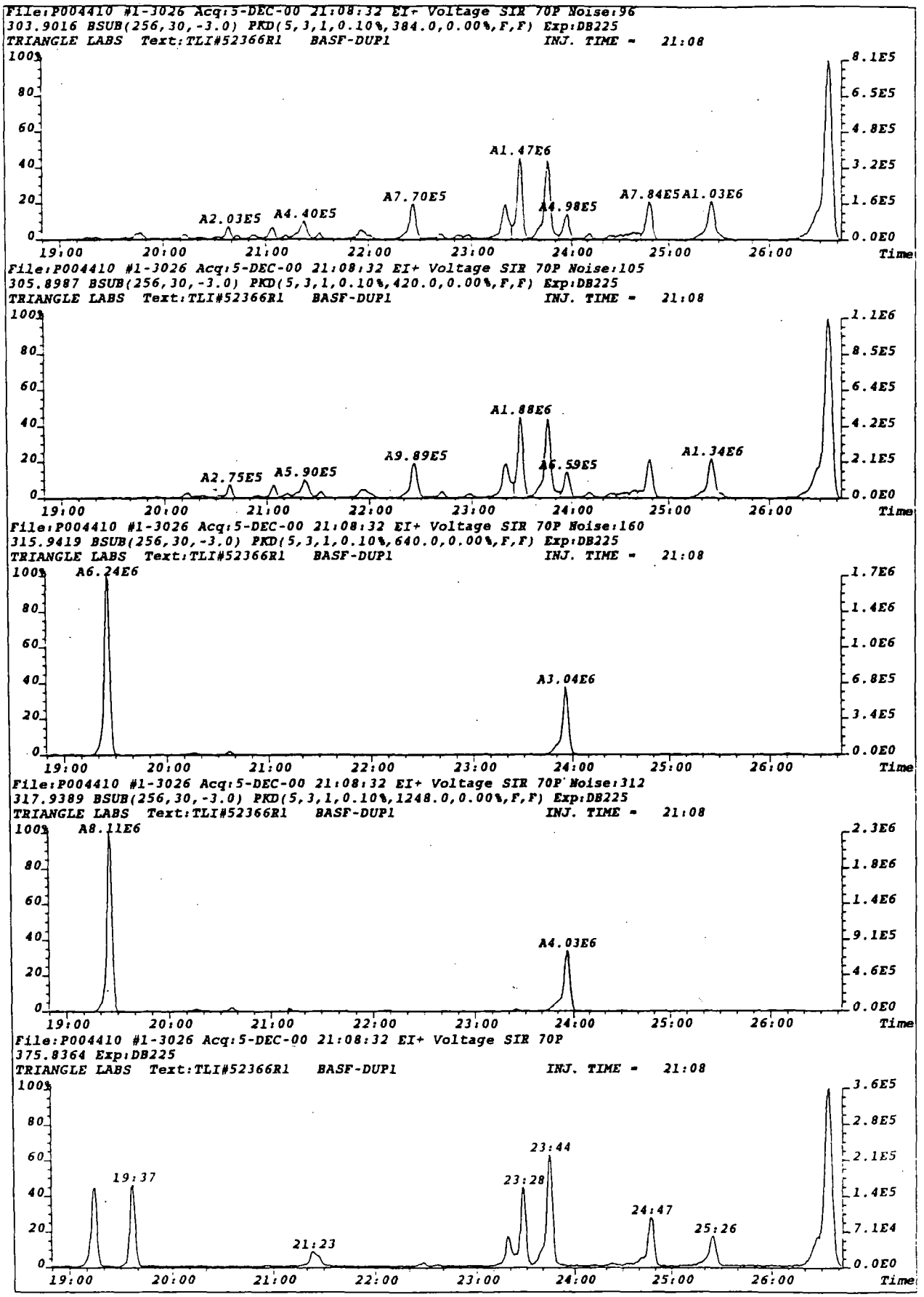
13C12-TCDD				0.65-0.89						0.910-1.090			
332-334		DC	NL			Height	0.33	0.20	0.13				
				20:50	RO	1.51	1.84	1.57	1.04	0.916			
	N			22:26		0.80	466.37	206.82	259.55	0.986	13C12-2378-TCDD	IS1	
						Height	101.23	44.85	56.38				
	N			22:45		0.83	635.73	287.84	347.89	1.000	13C12-1234-TCDD	RS1	
				23:11	RO	1.21	6.28	4.28	3.55	1.019			
				23:23		0.84	11.73	5.35	6.38	1.028			
				23:37	RO	0.91	1.40	0.72	0.79	1.038			
				23:46	RO	0.97	17.19	9.46	9.71	1.045			
				24:23	RO	0.51	0.87	0.38	0.74	1.072			
				24:31		0.78	10.35	4.54	5.81	1.078			
				24:46	RO	1.14	3.20	2.07	1.81	1.089			
		DC	WH	25:06	RO	1.59	3.47			1.103			
		DC	WH	25:25		0.87	21.97			1.117			
332-334			10	Peaks			1,154.96						

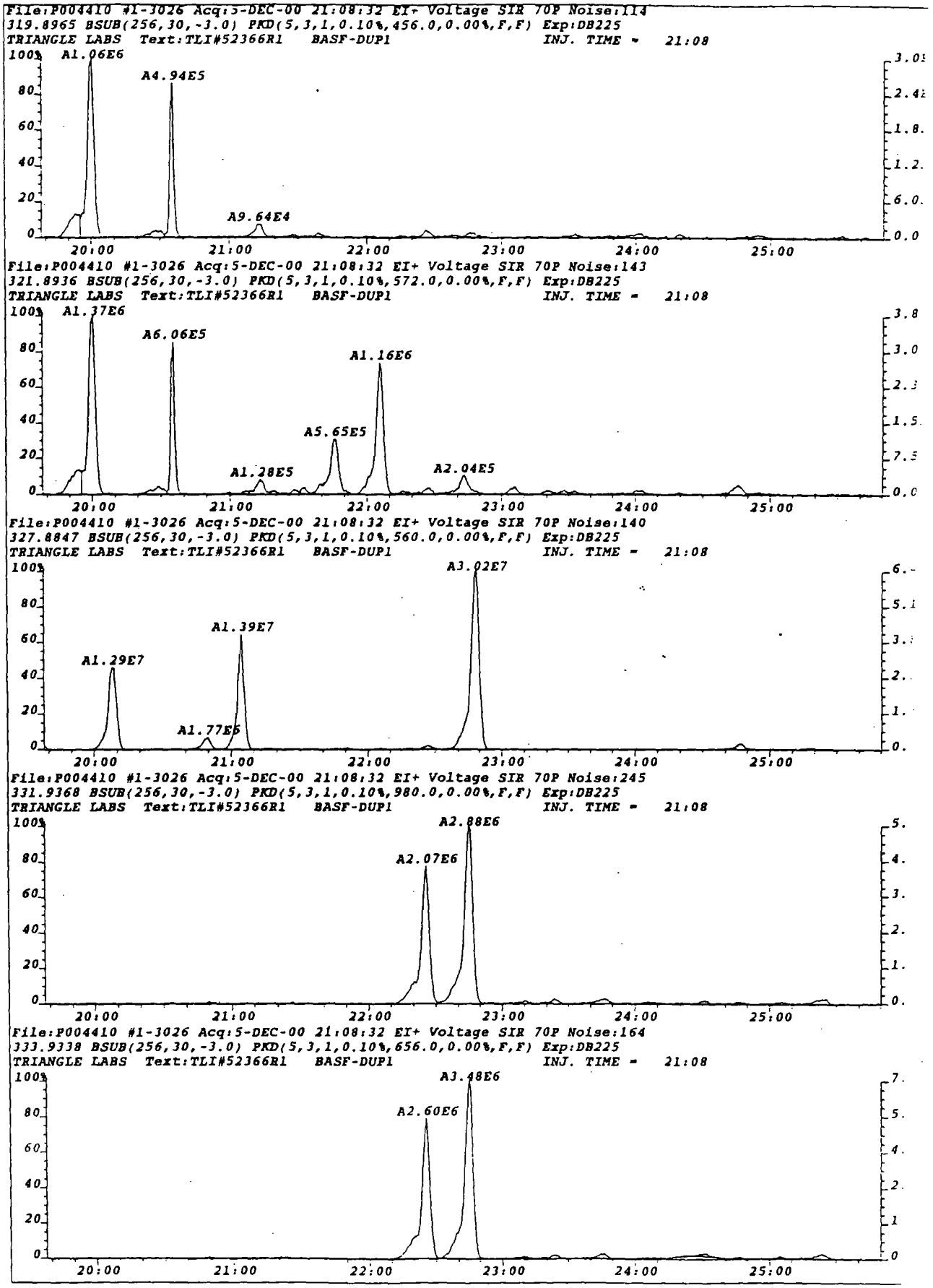
Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside 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

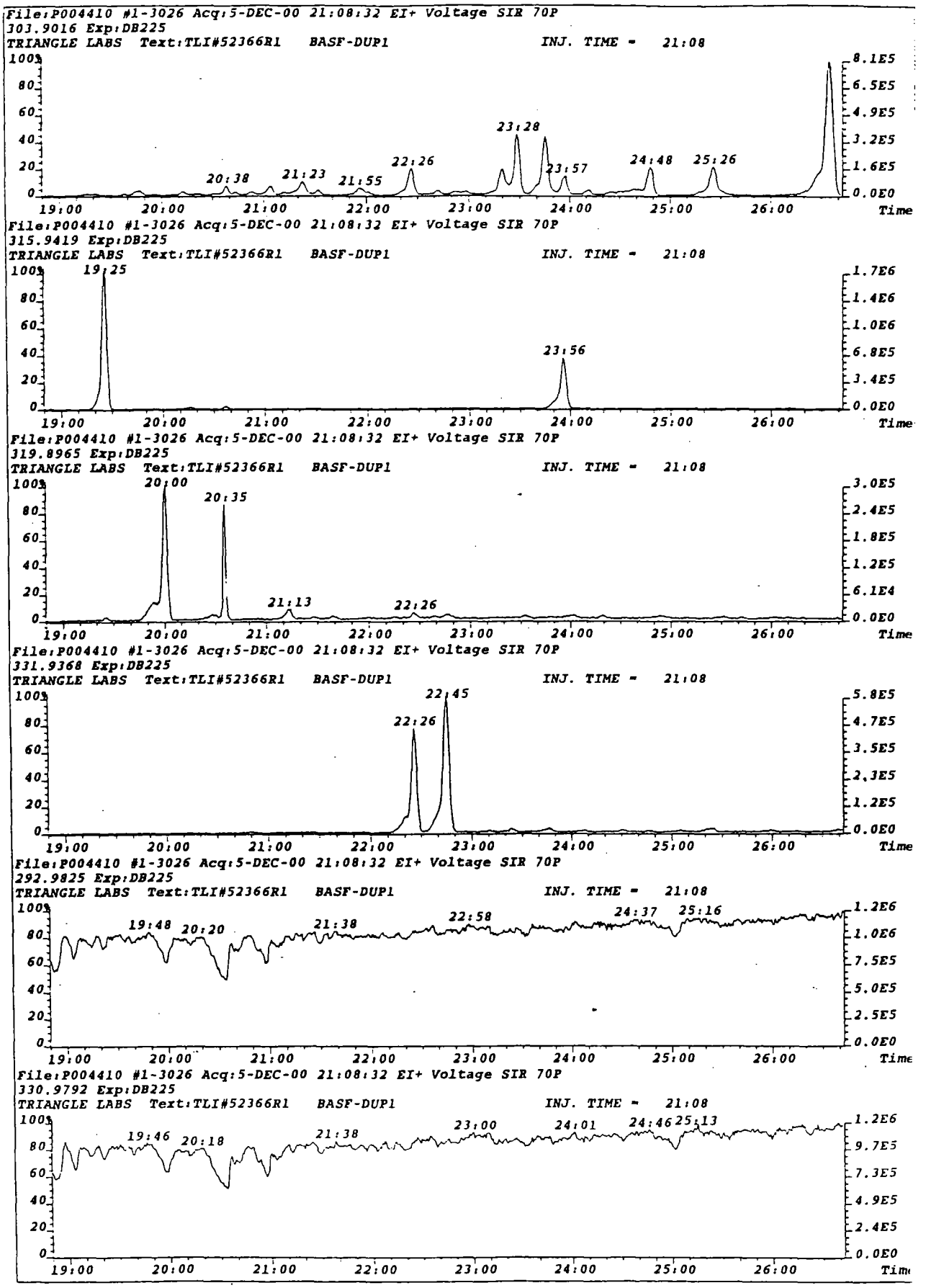
*** End of Report ***


File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P
303.9016 GC:DB225 Exp:none
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1
INJ. TIME = 21:08
21:23
21:55
22:26
22:42
22:58
23:20
23:28
23:45


File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P
305.8987 GC:DB225 Exp:none
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1
INJ. TIME = 21:08
21:22
21:55
22:26
22:42
22:58
23:20
23:28
23:45


File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P Noise:96
303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,384.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME - 21:08
A2.03E5
A4.40E5
A7.70E5
A1.47E6
A4.98E5
A7.84E5
A1.03E6
File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P Noise:105
305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,420.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME - 21:08
A2.75E5
A5.90E5
A9.89E5
A1.88E6
A6.59E5
A1.34E6
File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P Noise:160
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,640.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME - 21:08
A6.24E6
A3.04E6
File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P Noise:312
317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1248.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME - 21:08
A8.11E6
A4.03E6
File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P
375.8364 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME - 21:08
19:37
21:23
23:28
23:44
24:47
25:26
19:00
20:00
21:00
22:00
23:00
24:00
25:00
26:00
Time


File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P Noise:114
319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,456.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 21:08
A1.06E6
A4.94E5
A9.64E4
File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P Noise:143
321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,572.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 21:08
A1.37E6
A6.06E5
A1.16E6
A5.65E5
A1.28E5
A2.04E5
File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P Noise:140
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,560.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 21:08
A3.02E7
A1.39E7
A1.29E7
A1.77E6
File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P Noise:245
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,980.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 21:08
A2.88E6
A2.07E6
File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P Noise:164
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,656.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 21:08
A3.48E6
A2.60E6
20:00
21:00
22:00
23:00
24:00
25:00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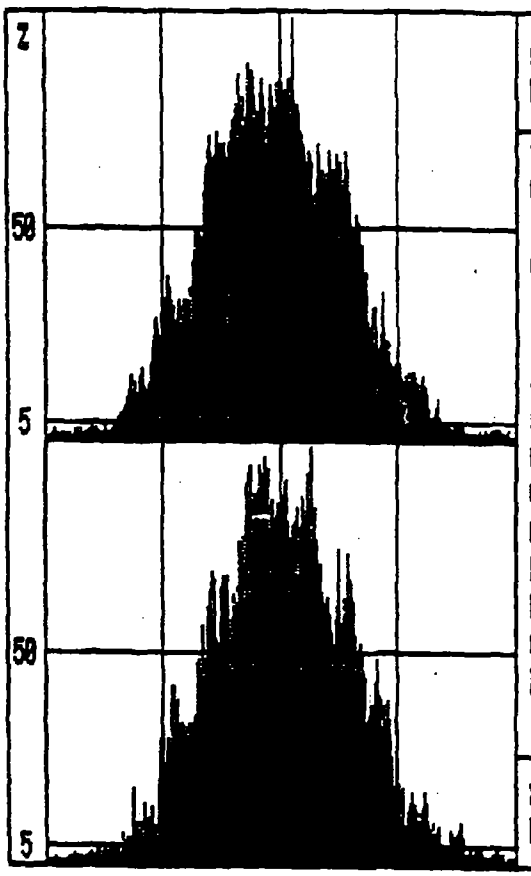
303.9016 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 21:08
20:38
21:23
21:55
22:26
23:28
23:57
24:48
25:26
File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P
315.9419 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 21:08
19:25
23:56
File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P
319.8965 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 21:08
20:00
20:35
21:13
22:26
File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P
331.9368 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 21:08
22:26
22:45
File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P
292.9825 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 21:08
19:48
20:20
21:38
22:58
24:37
25:16
File:P004410 #1-3026 Acq:5-DEC-00 21:08:32 EI+ Voltage SIR 70P
330.9792 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-DUP1 INJ. TIME = 21:08
19:46
20:18
21:38
23:00
24:01
24:46
25:13

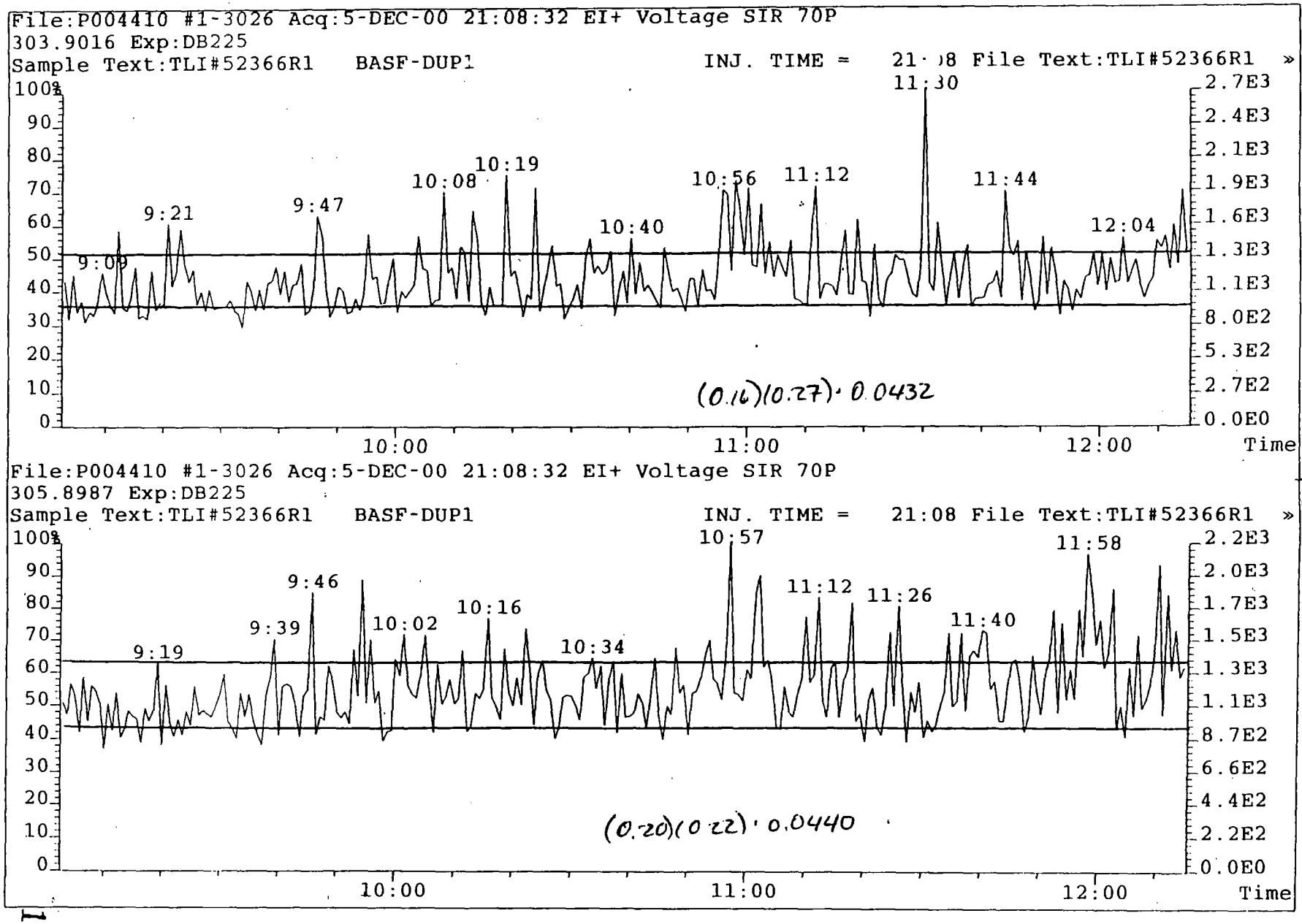


Channel I 330.9792 Peak top
Height .52 volts Span 200 ppm

System file name	08225
Data file name	A:PD05002
Resolution	10000
Group number	1
Ionization mode	EI+
Switching	VOLTAGE
Ref. masses	292.9825, 380.9761

A	292.9825	J	330.9792
B	303.9816	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		

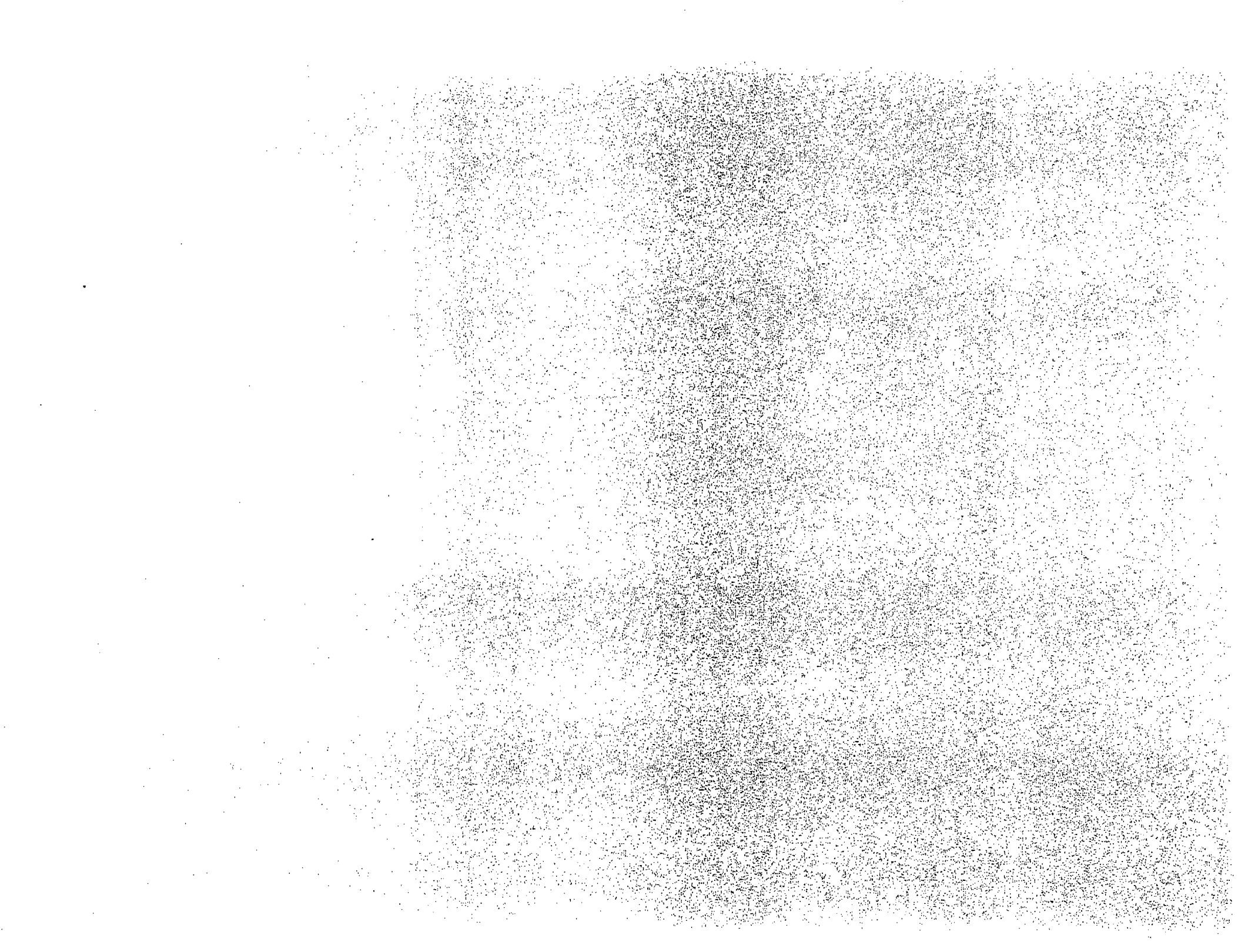
Ref. mass 380.9761 Peak top
Height .22 volts Span 200 ppm



0.0432
0.0440
0.0872

DS
12/5/00

173



TriMatrix, Inc.

TLI Project: **52366r1** Method 8290 PCDD/PCDF Analysis (
Client Sample: **BASF-FIELD BLANK** Analysis File: **T0060**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/2000**	Spike File:	**SPMIT32S**
TLI ID:	**274-99-6B**	Date Extracted:	**12/01/2000**	ICal:	**TF57140**
		Date Analyzed:	**12/05/2000**	ConCal:	**T005996**
Sample Size:	**1.070 L**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005998**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**BWL**	% Solids:	**n/a**

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flag
2,3,7,8-TCDD	ND	1.7				
1,2,3,7,8-PeCDD	ND	1.3				
1,2,3,4,7,8-HxCDD	ND	1.6				
1,2,3,6,7,8-HxCDD	ND	1.6				
1,2,3,7,8,9-HxCDD	ND	1.6				
1,2,3,4,6,7,8-HpCDD	ND	2.3				
1,2,3,4,6,7,8,9-OCDD	7.5			1.00	41:33	J
2,3,7,8-TCDF	ND	1.1				
1,2,3,7,8-PeCDF	ND	1.2				
2,3,4,7,8-PeCDF	ND	1.1				
1,2,3,4,7,8-HxCDF	ND	1.2				
1,2,3,6,7,8-HxCDF	ND	1.1				
2,3,4,6,7,8-HxCDF	ND	1.2				
1,2,3,7,8,9-HxCDF	ND	1.5				
1,2,3,4,6,7,8-HpCDF	ND	1.5				
1,2,3,4,7,8,9-HpCDF	ND	1.9				
1,2,3,4,6,7,8,9-OCDF	ND	2.9				

Totals	Conc. (pg/L)	Number	DL	EMPC	Flag
Total TCDD	ND		1.7		
Total PeCDD	ND		1.3		
Total HxCDD	ND		1.6		
Total HpCDD	ND		2.3		
Total TCDF	ND		1.1		
Total PeCDF	ND		1.1		
Total HxCDF	ND		1.3		
Total HpCDF	ND		1.7		

MIT3_PSR v1.00. LAF

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Printed: 17:40 12/13

TriMatrix, Inc.

TLI Project: **52366r1** Method 8290 PCDD/PCDF Analysi
Client Sample: **BASF-FIELD BLANK** Analysis File: **T00**

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Fl
$^{13}C_{12}$-2,3,7,8-TCDF	1370	73.2	40%-130%	0.75	26:08	
$^{13}C_{12}$-2,3,7,8-TCDD	1250	67.0	40%-130%	0.80	26:48	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1450	77.3	40%-130%	1.48	29:56	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1810	96.7	40%-130%	1.47	30:56	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1200	64.3	40%-130%	0.51	33:27	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1430	76.7	40%-130%	1.21	34:09	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1380	74.0	25%-130%	0.43	36:29	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1710	91.3	25%-130%	1.17	37:35	
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	3150	84.3	25%-130%	0.88	41:31	

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Fl
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1610	85.9	40%-130%	1.49	30:36	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1260	67.3	40%-130%	0.50	33:20	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1420	75.8	40%-130%	1.21	34:04	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1600	85.7	25%-130%	0.43	38:08	

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Fl
$^{37}Cl_4$-2,3,7,8-TCDD	151	80.8	40%-130%	26:49	

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Fl
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1610	86.0	40%-130%	0.50	34:46	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1460	78.3	40%-130%	0.50	33:57	

Recovery Standards	Ratio	RT	Fl
$^{13}C_{12}$-1,2,3,4-TCDD	0.80	26:38	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.21	34:29	

Data Reviewer: JCA 12/13/2000

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TriMatrix, Inc.

TLI Project: **52366r1** Toxicity Equivalents Re
Client Sample: **BASF-FIELD BLANK** Analysis File: **T006**

Client Project:	BASF-Malcolm Pirnie				
Sample Matrix:	WATER	Date Received:	11/17/00	Spike File:	SPMIT32
TLI ID:	274-99-6B	Date Extracted:	12/01/00	ICal:	TF57140
		Date Analyzed:	12/05/00	ConCal:	T005996
Sample Size:	1.070 L	Dilution Factor:	1	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T005998	% Lipid:	n/a
GC Column:	DB-5	Analyst:	BWL	% Solids:	n/a

Analytes	Conc. (pg/L)		TEF		Equivalent
2,3,7,8-TCDD	{1.7}	x	1.	=	1.7
1,2,3,7,8-PeCDD	{1.3}	x	0.5	=	0.65
1,2,3,4,7,8-HxCDD	{1.6}	x	0.1	=	0.16
1,2,3,6,7,8-HxCDD	{1.6}	x	0.1	=	0.16
1,2,3,7,8,9-HxCDD	{1.6}	x	0.1	=	0.16
1,2,3,4,6,7,8-HpCDD	{2.3}	x	0.01	=	0.023
1,2,3,4,6,7,8,9-OCDD	7.5	x	0.001	=	0.0075
TOTAL PCDD					2.9
2,3,7,8-TCDF	{1.1}	x	0.1	=	0.11
1,2,3,7,8-PeCDF	{1.2}	x	0.05	=	0.060
2,3,4,7,8-PeCDF	{1.1}	x	0.5	=	0.55
1,2,3,4,7,8-HxCDF	{1.2}	x	0.1	=	0.12
1,2,3,6,7,8-HxCDF	{1.1}	x	0.1	=	0.11
2,3,4,6,7,8-HxCDF	{1.2}	x	0.1	=	0.12
1,2,3,7,8,9-HxCDF	{1.5}	x	0.1	=	0.15
1,2,3,4,6,7,8-HpCDF	{1.5}	x	0.01	=	0.015
1,2,3,4,7,8,9-HpCDF	{1.9}	x	0.01	=	0.019
1,2,3,4,6,7,8,9-OCDF	{2.9}	x	0.001	=	0.0029
TOTAL PCDF					1.26

Total EPA TEFs, 1989a: 4.1 pg/L

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

GRY_TEF v1.08, MIL

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Printed: 17:44 12

1

Initial ....Date...

Data Review By: JCA 12/12/00

Calculated Noise Height: 0.06

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 T006002B.dbf
12/13/2000 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			0.880-1.070				
304-306	DC	NL					Height	0.11	0.06	0.05				
	DC	SN			25:28	RO	1.48	0.51		0.974				
D	D	SN			25:07	RO	0.95	0.65		0.999				
	DC	WH			28:03	RO	8.00	0.04		1.073				
304-306			0	Peaks				0.00						
13C12-TCDF							0.65-0.89			0.962-1.038				
316-318	DC	NL					Height	0.15	0.09	0.06				
					25:46		0.69	3.55	1.45	2.10	0.986			
					26:08		0.75	862.09	369.04	493.05	1.000	13C12-2378-TCDF	IS0	
							Height	250.16	107.10	143.06				
					26:34	RO	0.97	4.62	2.01	2.08	1.017			
316-318			3	Peaks				870.26						
---------- Above: TCDF / TCDD Follows ----------														
TCDD							0.65-0.89			0.904-1.042				
320-322	DC	NL					Height	0.08	0.04	0.04				
	DC	SN			24:56	RO	1.18	0.19		0.930				
	DC	SN			25:24	RO	1.00	0.41		0.948				
	DC	SN			25:33	RO	0.63	0.11		0.953				
	DC	SN			25:36	RO	1.00	0.07		0.955				
D	D	SN			25:52		0.76	0.51		0.965				
D	D	SN			26:08	RO	0.98	0.83		0.975				
	DC	SN			26:32	RO	0.25	0.07		0.990				
	DC	SN			26:37	RO	1.00	0.32		0.993				
	DC	SN			26:51	RO	0.22	0.23		1.002	2378-TCDD		AN	
	DC	WH			28:18		0.85	0.24		1.056				
320-322			0	Peaks				0.00						
37Cl-TCDD										0.925-1.075				
328	DC	NL					Height	0.05	0.05					
	DC	WL			24:16			0.17		0.905				
	DC	WL			24:43			0.18		0.922				
	DC	SN			24:53			0.05		0.928				
	DC	SN			25:05			0.10		0.936				
					25:32			0.62	0.62	0.953				
					25:42			0.14	0.14	0.959				
	DC	SN			25:51			0.18		0.965				
	DC	SN			25:52			0.08		0.965				
					25:57			0.41	0.41	0.968				
					26:12			0.56	0.56	0.978				
	DC	SN			26:17			0.12		0.981				

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		26:19			0.17			0.982			
	DC	SN		26:39			0.20			0.994			
				26:49			66.04	66.04		1.001	37Cl-TCDD		CLS
	DC	SN		27:04			0.07			1.010			
	DC	SN		27:10			0.22			1.014			
	DC	SN		27:14			0.21			1.016			
	DC	SN		27:26			0.19			1.024			
	DC	SN		27:39			0.20			1.032			
	DC	SN		27:47			0.12			1.037			
				27:54			0.20	0.20		1.041			
	DC	SN		28:04			0.10			1.047			
	DC	SN		28:13			0.14			1.053			
	DC	SN		28:17			0.17			1.055			
328			6	Peaks			67.97						
13C12-TCDD					0.65-0.89					0.925-1.075			
332-334	DC	NL			Height		0.38	0.31	0.07				
				25:42	RO	1.53	1.73	1.50	0.98	0.959			
				26:38		0.80	918.85	407.36	511.49	0.994	13C12-1234-TCDD		RS1
				26:48		0.80	647.51	288.53	358.98	1.000	13C12-2378-TCDD		IS1
					Height		184.75	80.95	103.80				
332-334			3	Peaks			1,568.09						

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

PeCDF					1.32-1.78				0.930-1.060				
340-342	DC	NL			Height		0.09	0.04	0.05				
	DC	SN		27:57	RO	1.29	0.36			0.934			
	DC	SN		28:18	RO	0.44	0.13			0.945			
	DC	SN		28:29	RO	1.00	0.13			0.952			
	DC	SN		29:05	RO	0.75	0.15			0.972			
	DC	SN		29:12	RO	0.55	0.10			0.976			
	DC	SN		29:57	RO	0.86	0.30			1.001	12378-PeCDF		AN
	DC	SN		30:03	RO	0.95	0.30			1.004			
	DC	SN		30:28	RO	1.91	0.28			1.018			
	DC	SN		30:38	RO	1.83	0.61			1.023	23478-PeCDF		AN
	DC	SN		31:11	RO	1.00	0.33			1.042			
	DC	SN		31:18	RO	0.06	0.03			1.046			
	DC	SN		31:38	RO	2.50	0.15			1.057			
340-342			0	Peaks			0.00						
13C12-PeCDF					1.32-1.78				0.866-1.134				
352-354	DC	NL			Height		0.11	0.05	0.06				
				29:07		1.48	2.31	1.38	0.93	0.973			
				29:34	RO	2.02	1.35	1.07	0.53	0.988			
				29:56		1.48	851.91	508.06	343.85	1.000	13C12-PeCDF 123		IS2
					Height		266.88	158.99	107.89				
				30:14	RO	1.21	6.40	3.04	2.51	1.010			
				30:36		1.49	936.80	561.08	375.72	1.022	13C12-PeCDF 234		SUR1
				31:35	RO	1.26	10.61	5.25	4.16	1.055			
352-354			6	Peaks			1,809.38						

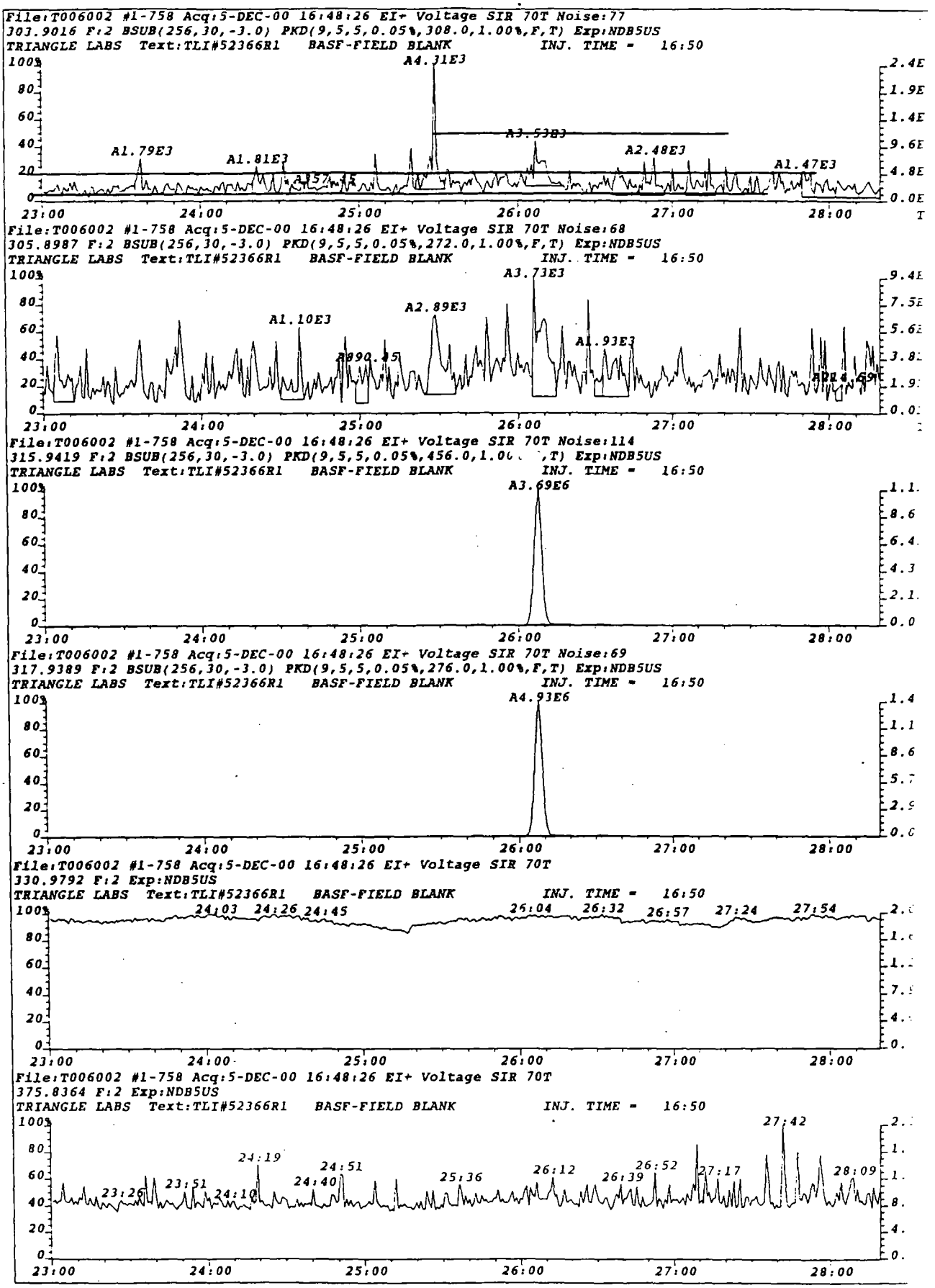
Compound/ M_I....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
---------- Above: PeCDF / PeCDD Follows ----------													
PeCDD				1.32-1.78					0.938-1.020				
356-358	DC	NL		Height			0.10	0.06	0.04				
D	D	SN	29:12	RO		1.15	0.38			0.944			
	DC	SN	29:21	RO		0.73	0.18			0.949			
	DC	SN	29:33			1.55	0.28			0.955			
	DC	SN	29:45	RO		0.33	0.07			0.962			
	DC	SN	29:47	RO		0.10	0.03			0.963			
	DC	SN	29:58	RO		5.86	0.18			0.969			
D	D	SN	30:12	RO		2.21	0.36			0.976			
	DC	SN	30:36	RO		1.85	0.51			0.989			
	DC	SN	31:02	RO		0.60	0.61			1.003			
	DC	SN	31:24	RO		0.29	0.08			1.015			
	DC	WH	31:35	RO		0.67	0.10			1.021			
	DC	WH	31:44	RO		0.73	0.31			1.026			
356-358		0	Peaks				0.00						
13C12-PeCDD				1.32-1.78					0.871-1.129				
368-370	DC	NL		Height			0.26	0.20	0.06				
			29:53	RO		2.47	3.54	3.43	1.39	0.966			
			30:02	RO		2.45	3.32	3.19	1.30	0.971			
			30:42	RO		3.14	0.56	0.69	0.22	0.992			
			30:56			1.47	606.22	360.43	245.79	1.000	13C12-PeCDD 123	IS3	
				Height			200.45	118.82	81.63				
368-370		4	Peaks				613.64						
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF				1.05-1.43					0.963-1.047				
374-376	DC	NL		Height			0.12	0.06	0.06				
D	D	SN	33:21			1.07	0.56			0.997	123478-HxCDF	AN	
	DC	SN	33:28	RO		2.56	0.20			1.000	123678-HxCDF	AN	
	DC	SN	33:57	RO		0.50	0.16			1.015	234678-HxCDF	AN	
	DC	SN	34:24	RO		0.32	0.11			1.028			
	DC	SN	34:31	RO		0.87	0.23			1.032			
	DC	SN	34:45	RO		1.00	0.31			1.039	123789-HxCDF	AN	
	DC	SN	34:55	RO		2.50	0.04			1.044			
	DC	SN	35:01	RO		1.83	0.13			1.047			
374-376		0	Peaks				0.00						
13C12-HxCDF				0.43-0.59					0.880-1.120				
384-386	DC	NL		Height			0.29	0.14	0.15				
			32:22	RO		0.70	2.25	0.76	1.08	0.968			
			32:30	RO		0.63	2.22	0.75	1.20	0.972			
			33:20			0.50	743.99	248.35	495.64	0.997	13C12-HxCDF 478	SUR2	
			33:27			0.51	720.85	242.10	478.75	1.000	13C12-HxCDF 678	IS4	
				Height			231.90	78.99	152.91				
			33:57			0.50	800.44	268.37	532.07	1.015	13C12-HxCDF 234	ALT2	
			34:09	RO		0.20	0.56	0.19	0.94	1.021			
			34:46			0.50	646.08	216.78	429.30	1.039	13C12-HxCDF 789	ALT1	
384-386		7	Peaks				2,916.39						

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				0.957-1.013			
390-392	DC	NL				Height	0.17	0.08	0.09				
390-392			0 Peaks				0.00						
13C12-HxCDD						1.05-1.43				0.971-1.029			
402-404	DC	NL				Height	1.69	1.23	0.46				
				33:36	RO	9.13	3.65	14.97	1.63	0.984			
				34:04		1.21	550.56	301.33	249.23	0.998	13C12-HxCDD 473		SUR3
				34:09		1.21	537.81	294.29	243.52	1.000	13C12-HxCDD 678		IS5
						Height	169.86	92.30	77.56				
				34:29		1.21	772.39	422.44	349.95	1.010	13C12-HxCDD 789		RS2
402-404			4 Peaks				1,864.41						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF						0.88-1.20				0.995-1.050			
408-410	DC	NL				Height	0.09	0.05	0.04				
	DC	SN		38:10		1.18	0.37			1.046	1234789-HpCDF		AN
408-410			0 Peaks				0.00						
13C12-HpCDF						0.37-0.51				0.945-1.110			
418-420	DC	NL				Height	0.16	0.07	0.09				
				36:29		0.43	554.15	166.78	387.37	1.000	13C12-HpCDF 678		IS6
						Height	149.43	43.80	105.63				
				38:08		0.43	499.60	149.97	349.63	1.045	13C12-HpCDF 789		SUR4
418-420			2 Peaks				1,053.75						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD						0.88-1.20				0.974-1.004			
424-426	DC	NL				Height	0.09	0.05	0.04				
	DC	SN		36:49	RO	0.70	0.27			0.980			
	DC	SN		37:08	RO	0.38	0.12			0.988			
	DC	SN		37:15	RO	0.61	0.22			0.991			
	DC	SN		37:23	RO	0.23	0.06			0.995			
D	D	SN		37:37		0.91	0.67			1.001	1234678-HpCDD		AN
424-426			0 Peaks				0.00						
13C12-HpCDD						0.88-1.20				0.973-1.027			
436-438	DC	NL				Height	1.72	1.16	0.56				
	DC	WL		36:29	RO	3.26	8.14			0.971			
				37:06	RO	5.02	14.28	35.12	7.00	0.987			
M				37:35		1.17	605.00	326.00	279.00	1.000	13C12-HpCDD 678		IS7
						Height	145.44	75.87	69.57				
436-438			2 Peaks				619.28						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF						0.76-1.02				0.904-1.096			
442-444	DC	NL				Height	0.10	0.05	0.05				

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	36:22	RO	3.25	0.08			0.876			
	DC		WL	36:27		0.31	0.29			0.878			
	DC		WL	36:55	RO	0.75	0.25			0.889			
	DC		SN	38:24	RO	0.18	0.13			0.925			
	DC		SN	38:31	RO	3.00	0.06			0.928			
	DC		SN	38:37		0.85	0.24			0.930			
	DC		SN	41:04	RO	0.50	0.08			0.989			
	DC		SN	41:11	RO	2.00	0.08			0.992			
	DC		SN	41:34	RO	1.47	0.36			1.001			
D	D		SN	41:46	RO	1.04	1.04			1.006	OCDF	AN	
442-444		0	Peaks				0.00						
OCDD				0.76-1.02					0.904-1.096				
453-460	DC		NL		Height		0.10	0.05	0.05				
M				41:33		1.00	1.66	0.33	0.83	1.001	OCDD	AN	J
	DC		SN	41:42	RO	2.70	0.19			1.004			
453-460.		1	Peak				1.66						
13C12-OCDD				0.76-1.02					0.996-1.004				
470-472	DC		NL		Height		1.37	0.91	0.46				
				41:31		0.88	908.67	425.57	483.10	1.000	13C12-OCDD	IS8	
					Height		177.41	81.48	95.93				
	DC		WH	41:46	RO	5.52	9.88			1.006			
470-472		1	Peak				908.67						

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 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A4.31E3
A3.53E3
A1.79E3
A1.81E3
A2.48E3
A1.47E3
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:68
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,272.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A3.73E3
A2.89E3
A1.10E3
A1.93E3
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:114
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,456.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A3.69E6
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:69
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A4.93E6
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
24:03 24:26 24:45 26:04 26:32 26:57 27:24 27:54
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
27:42
24:19
24:51
23:26
23:51
24:10
24:40
25:36
26:12
26:39
26:52
27:17
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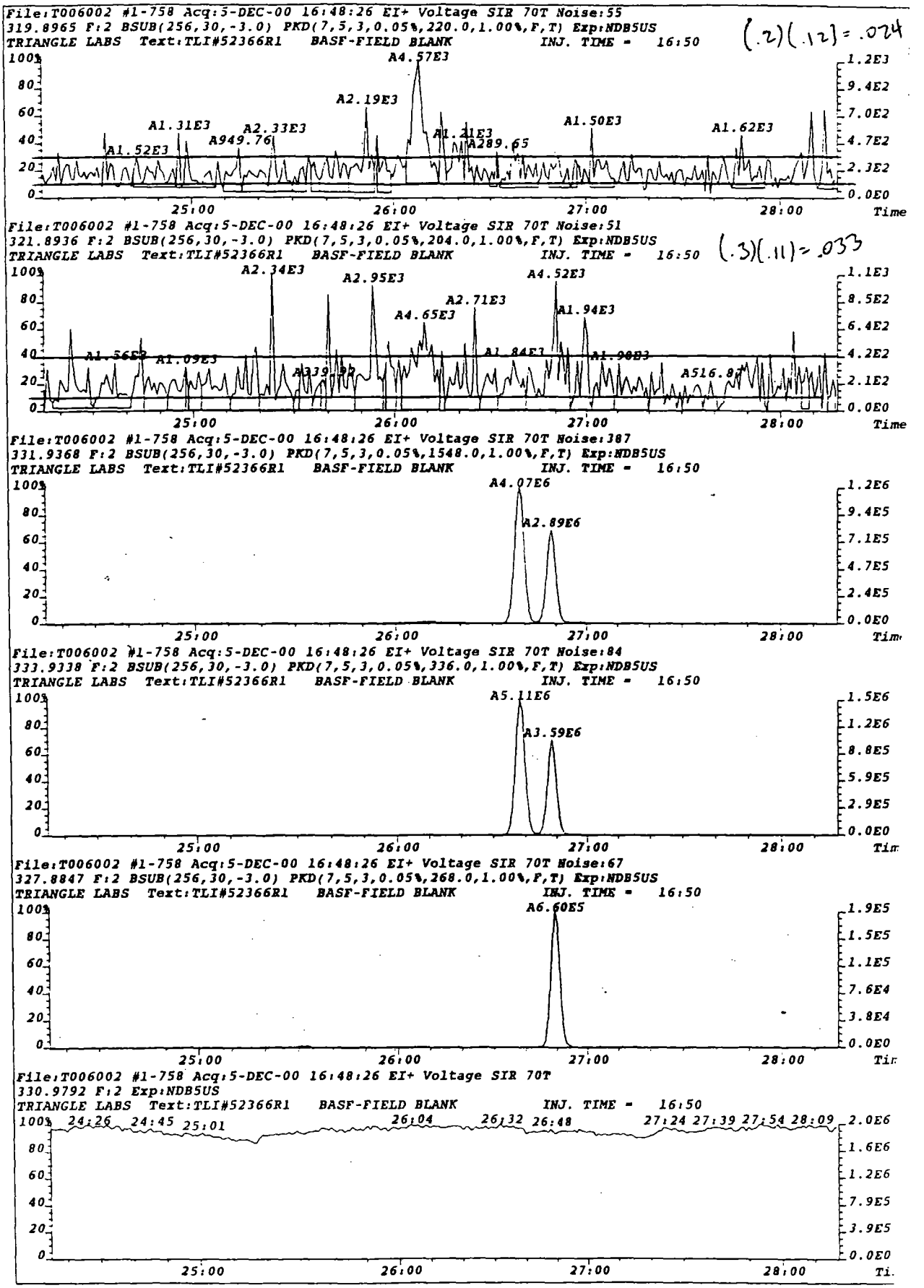
25:00
26:00
27:00
28:00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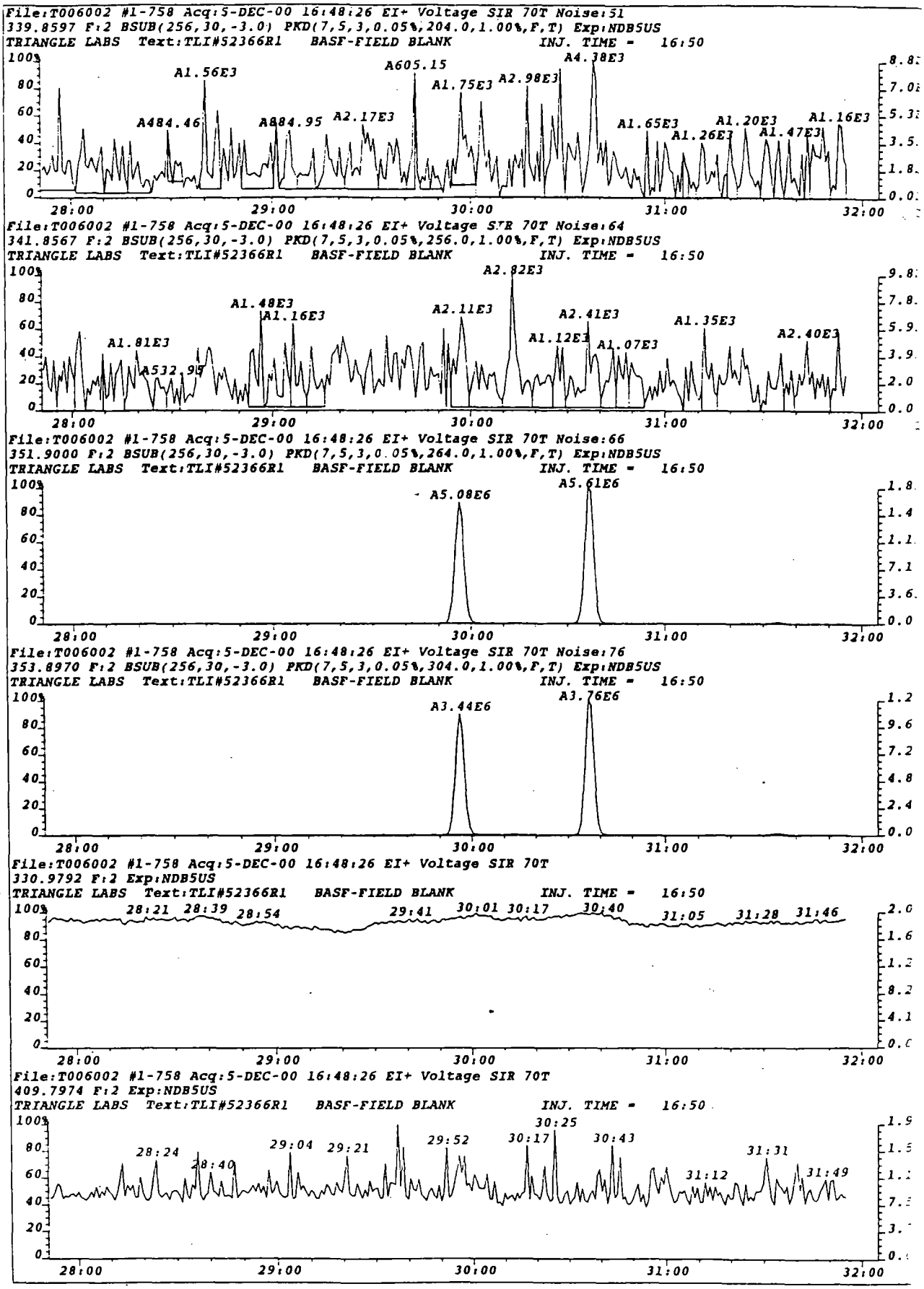
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,220.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
(.2)(.12)=.024
A4.57E3
A2.19E3
A1.31E3
A2.33E3
A949.76
A1.52E3
A1.21E3
A289.65
A1.50E3
A1.62E3
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:51
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,204.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
(.3)(.11)=.033
A2.34E3
A2.95E3
A4.52E3
A2.71E3
A4.65E3
A1.94E3
A1.56E3
A1.09E3
A516.88
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:387
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1548.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A4.07E6
A2.89E6
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:84
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,336.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A5.11E6
A3.59E6
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:67
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A6.60E5
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
24:26 24:45 25:01 26:04 26:32 26:48 27:24 27:39 27:54 28:09
25:00 26:00 27:00 28:00 Time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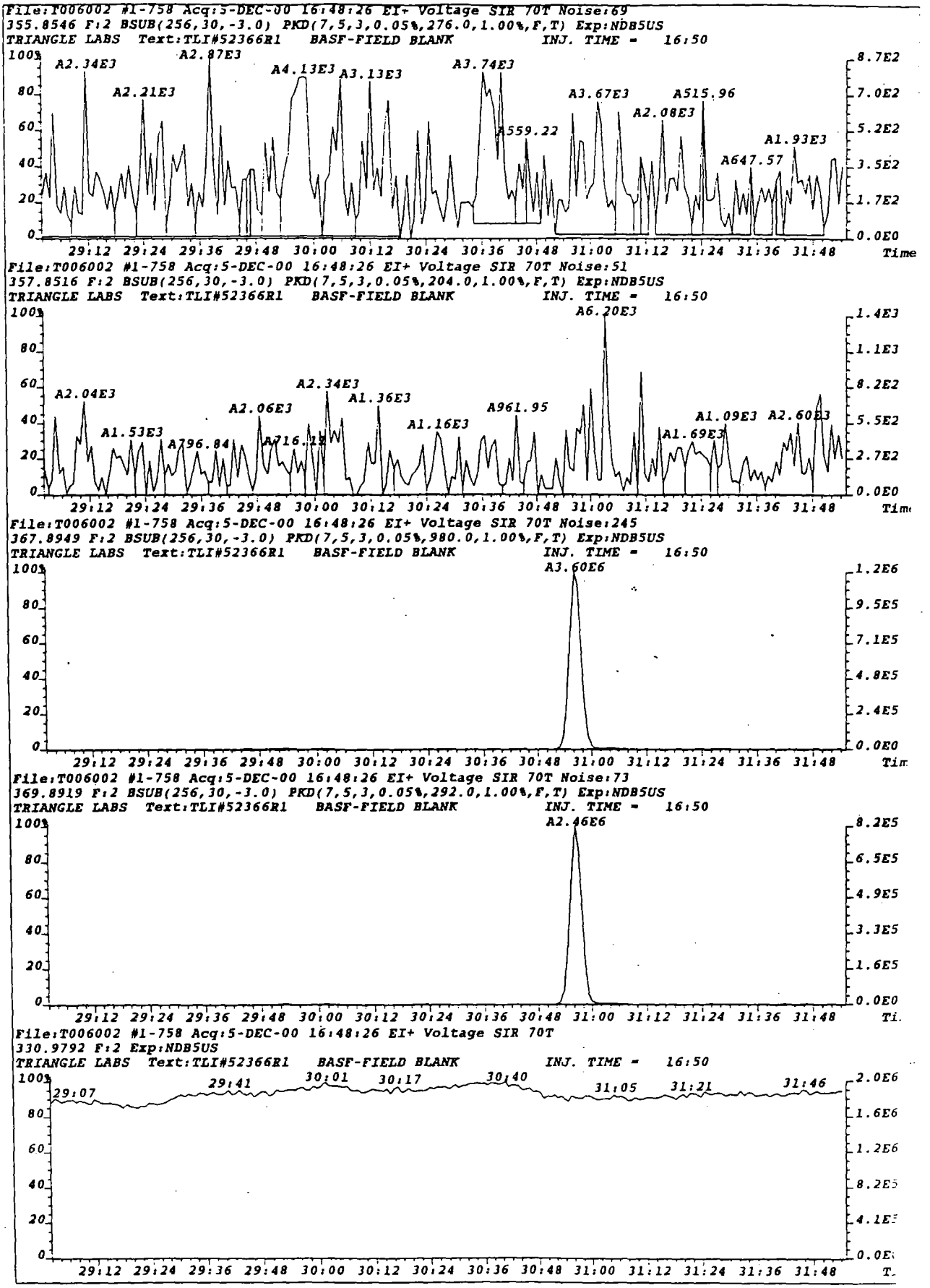
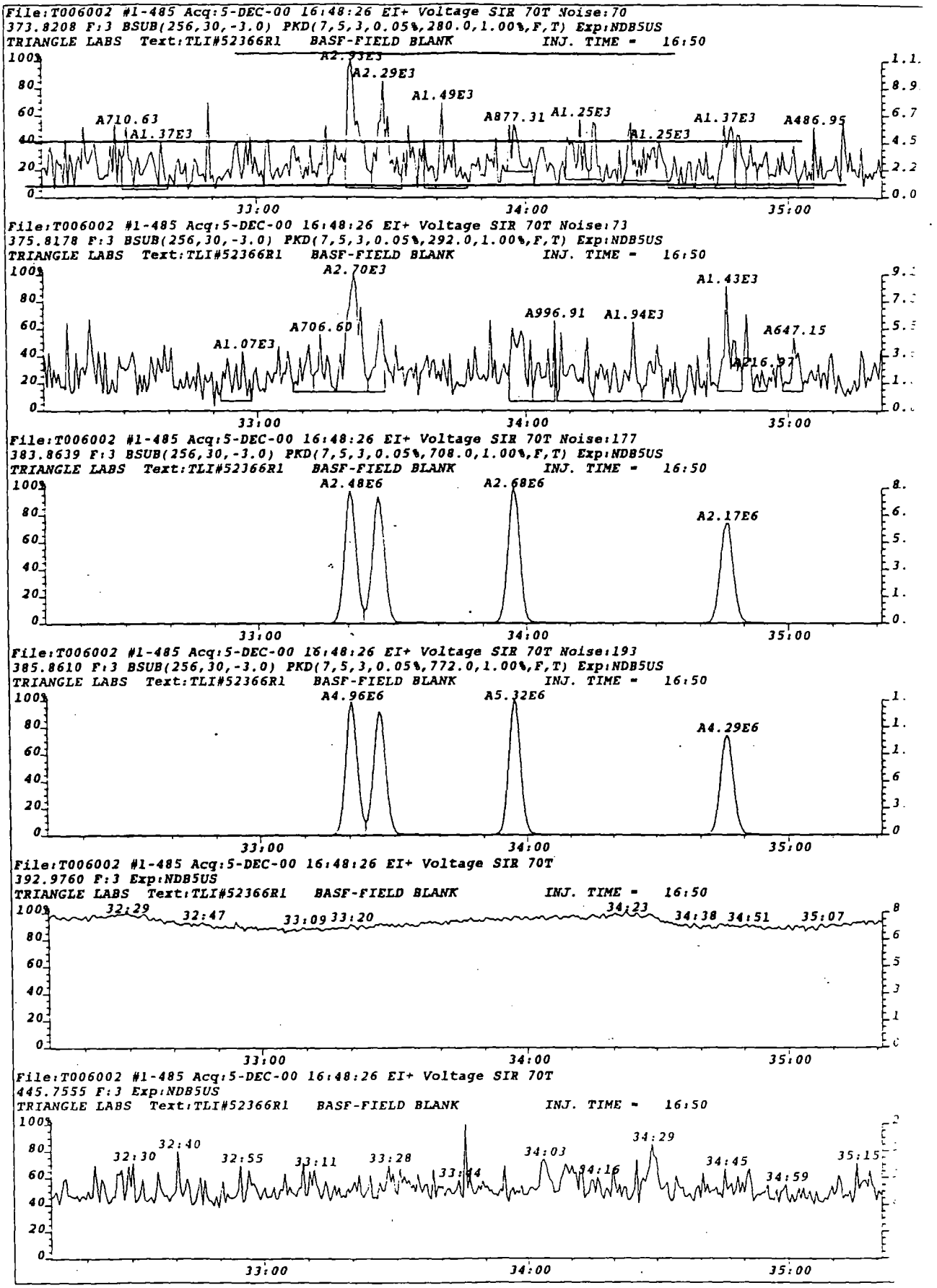
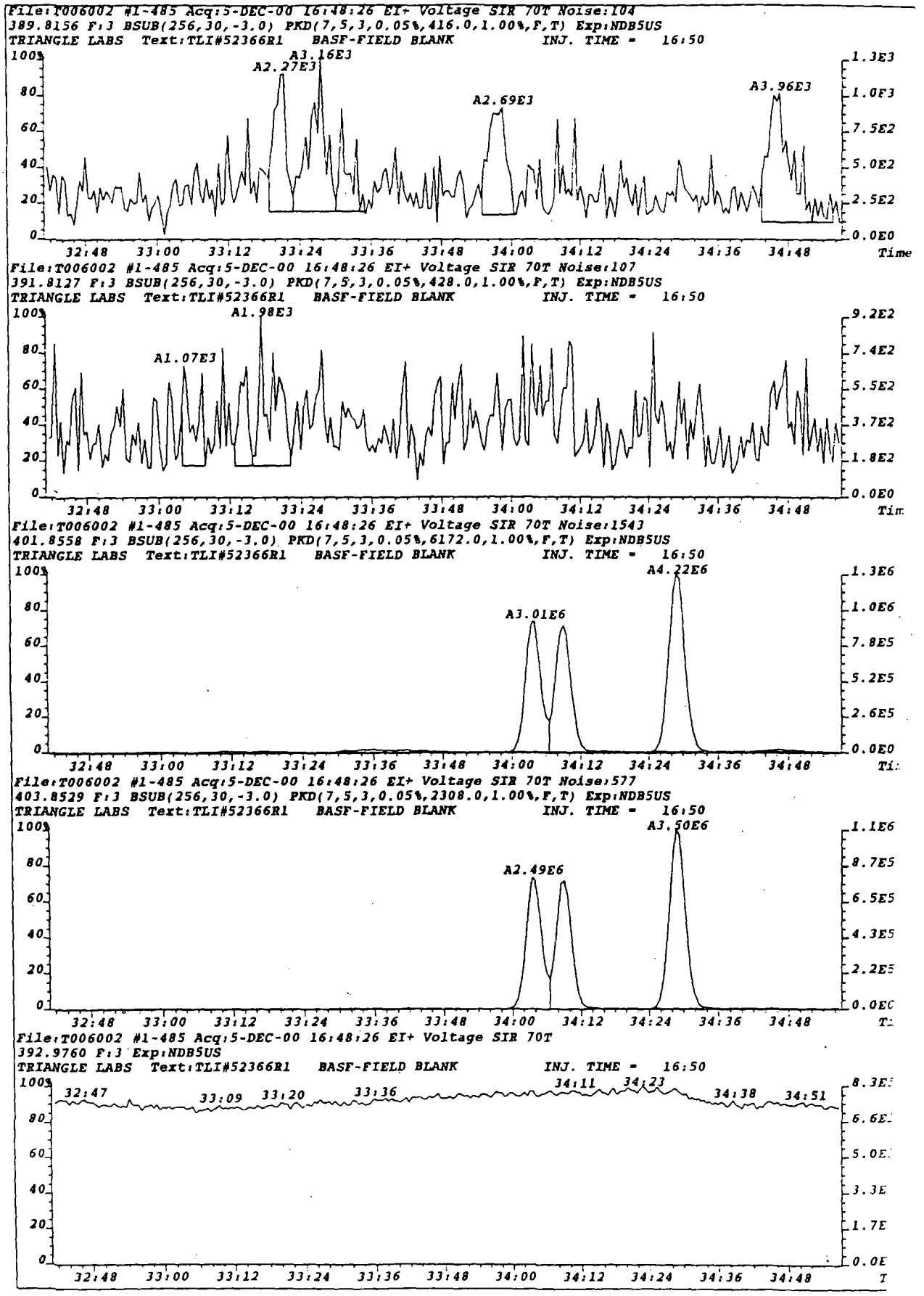
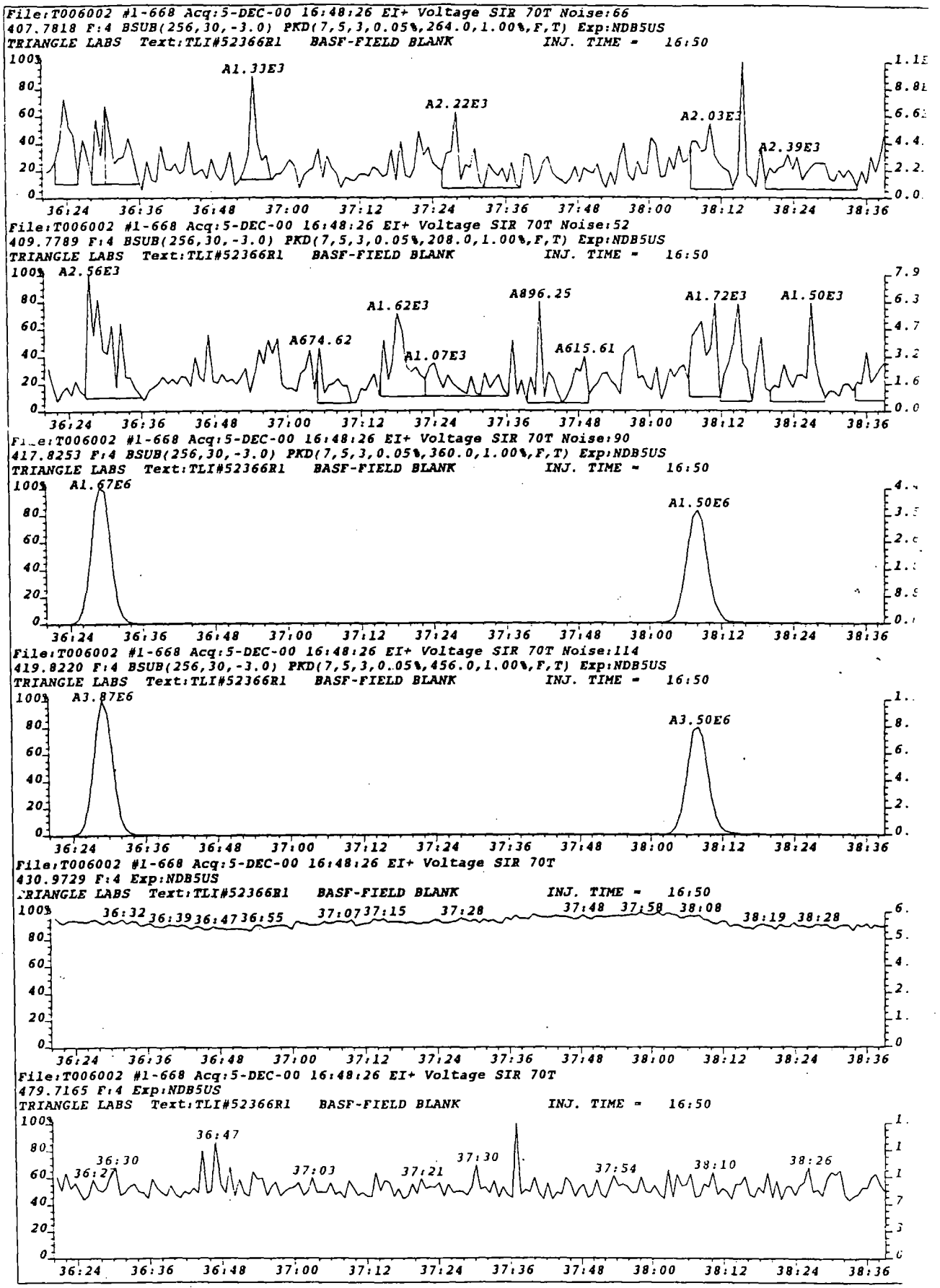
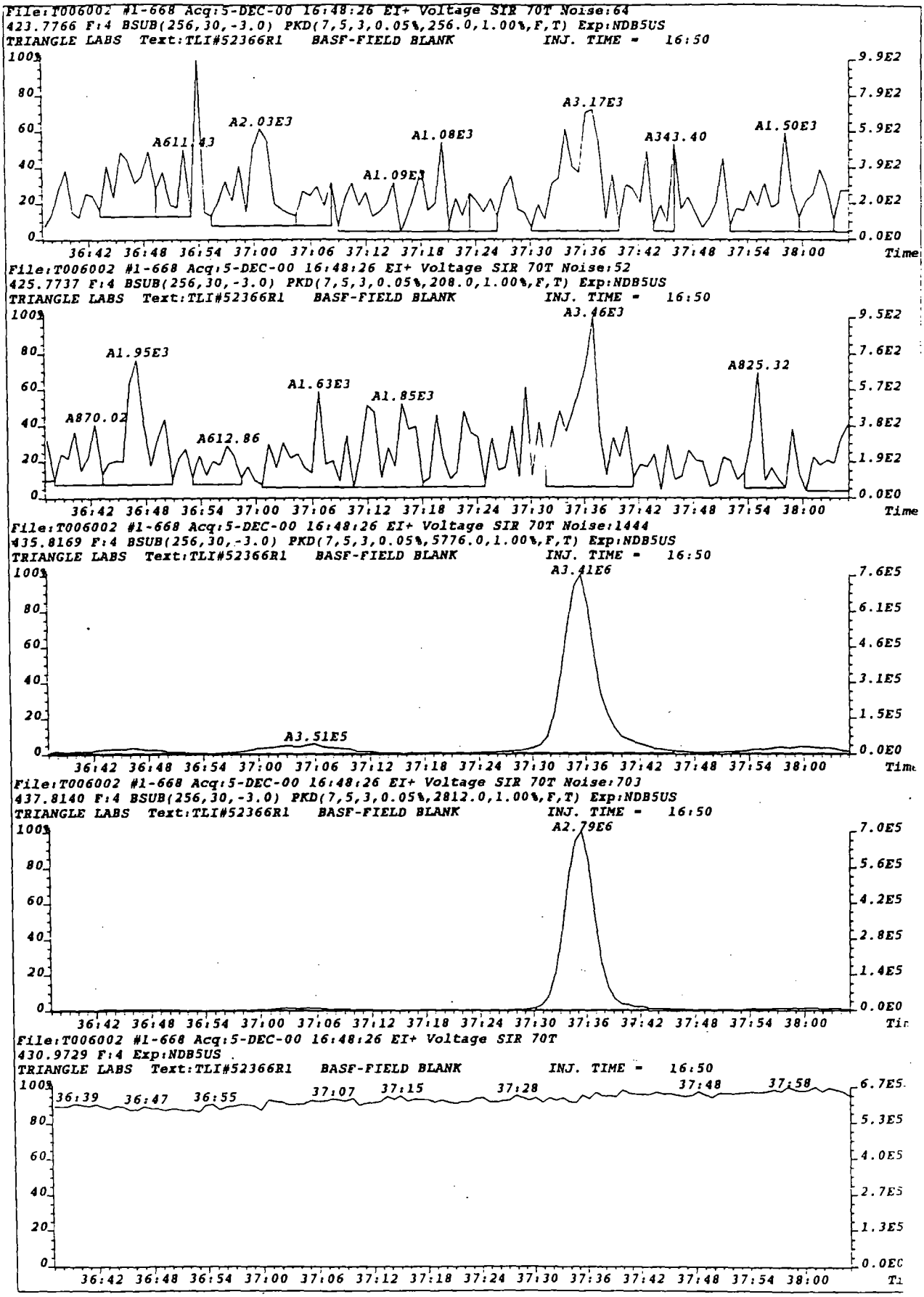
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,204.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A1.56E3
A605.15
A4.38E3
A2.98E3
A1.75E3
A484.46
A884.95
A2.17E3
A1.65E3
A1.26E3
A1.20E3
A1.47E3
A1.16E3
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:64
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A2.82E3
A1.48E3
A1.16E3
A2.11E3
A2.41E3
A1.35E3
A1.81E3
A1.12E3
A1.07E3
A2.40E3
A532.95
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:66
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,264.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A5.08E6
A5.61E6
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:76
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,304.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A3.44E6
A3.76E6
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
28:21 28:39 28:54 29:41 30:01 30:17 30:40 31:05 31:28 31:46
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
28:24 28:40 29:04 29:21 29:52 30:17 30:25 30:43 31:12 31:31 31:49
28:00 29:00 30:00 31:00 32:00

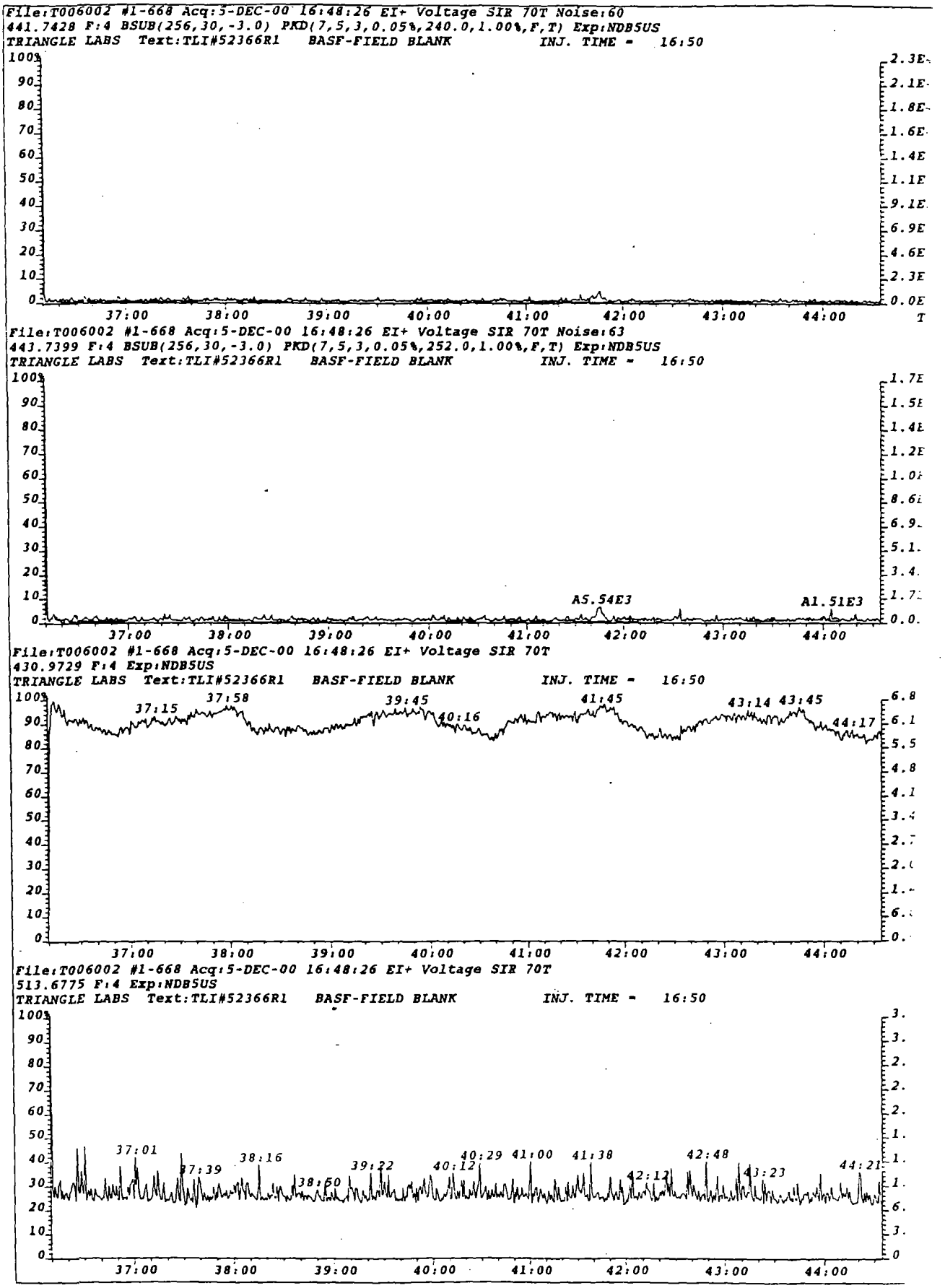

File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:69
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A2.34E3
A2.87E3
A4.13E3
A3.13E3
A3.74E3
A2.21E3
A3.67E3
A515.96
A2.08E3
A559.22
A1.93E3
A647.57
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:51
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,204.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A6.20E3
A2.04E3
A2.34E3
A1.36E3
A2.06E3
A961.95
A1.16E3
A1.09E3
A2.60E3
A1.53E3
A796.84
A716.18
A1.69E3
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:245
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,980.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A3.60E6
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:73
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,292.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A2.46E6
File:T006002 #1-758 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
29:07
29:41
30:01
30:17
30:40
31:05
31:21
31:46

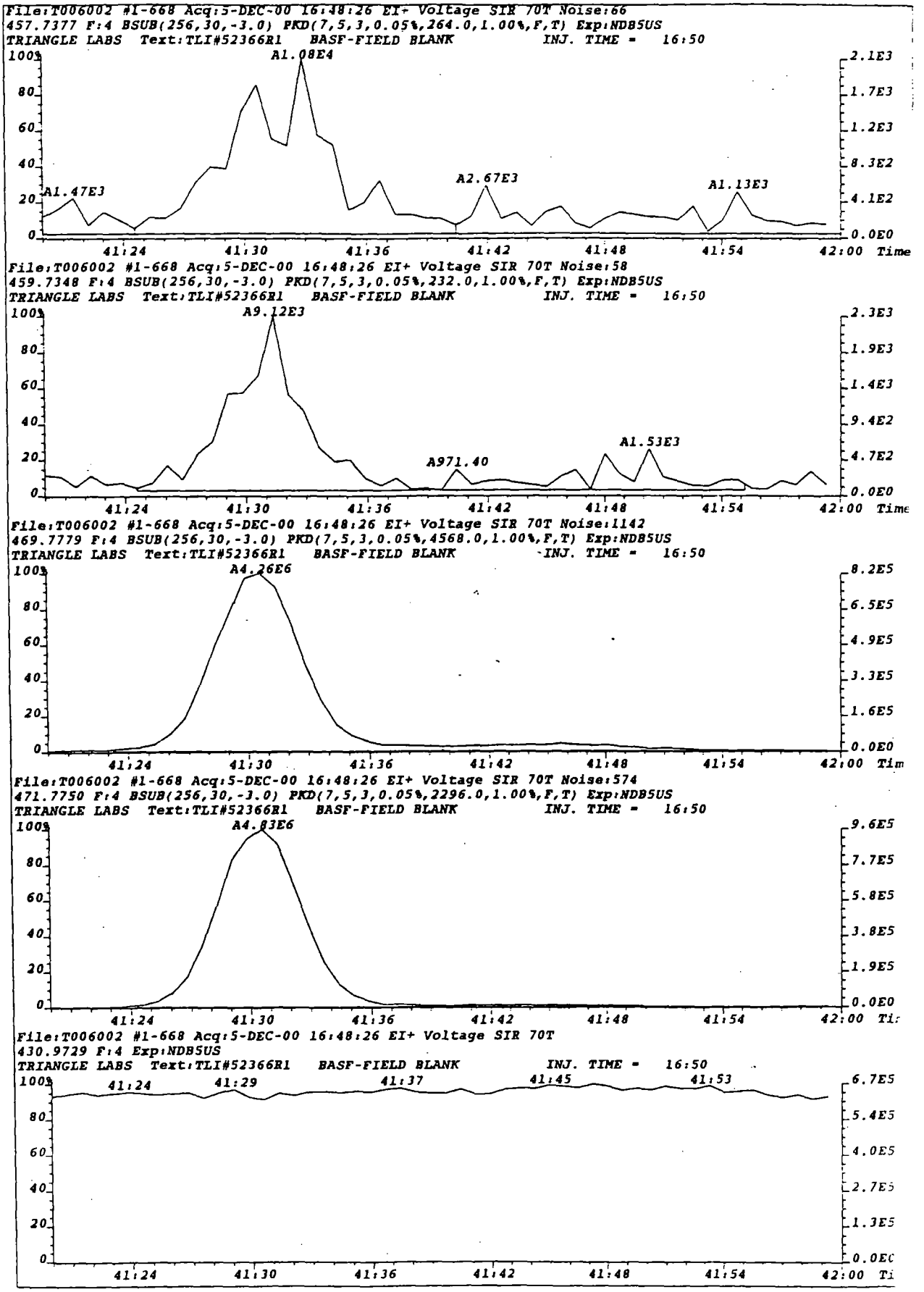

File:T006002 #1-485 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:70
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,280.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A710.63
A1.37E3
A2.29E3
A1.49E3
A877.31
A1.25E3
A1.25E3
A1.37E3
A486.95
File:T006002 #1-485 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:73
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,292.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A2.70E3
A1.07E3
A706.60
A996.91
A1.94E3
A1.43E3
A647.15
File:T006002 #1-485 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:177
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,708.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A2.48E6
A2.68E6
A2.17E6
File:T006002 #1-485 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:193
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,772.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A4.96E6
A5.32E6
A4.29E6
File:T006002 #1-485 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
32:29
32:47
33:09
33:20
34:23
34:38
34:51
35:07
File:T006002 #1-485 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
32:30
32:40
32:55
33:11
33:28
33:44
34:03
34:16
34:29
34:45
34:59
35:15
33:00
34:00
35:00

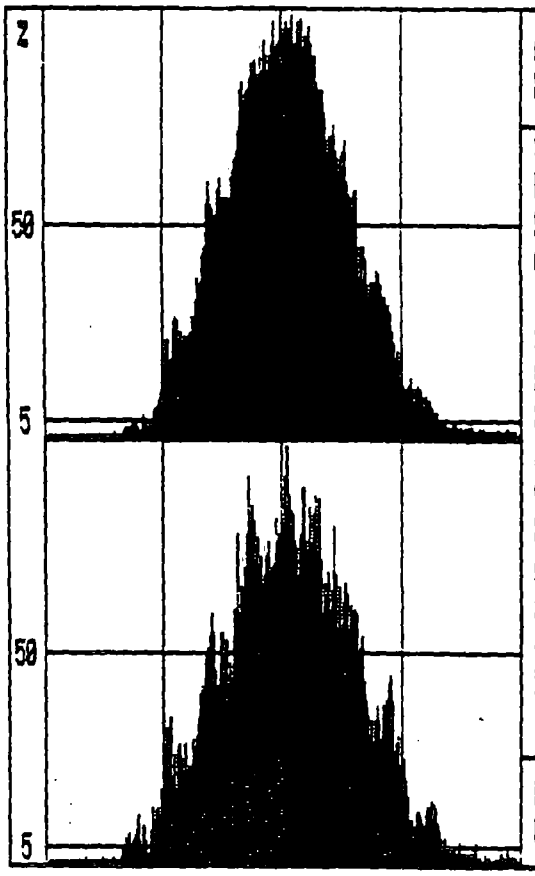

File:T006002 #1-485 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:104
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,416.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A3.16E3
A2.27E3
A2.69E3
A3.96E3
File:T006002 #1-485 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:107
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,428.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A1.98E3
A1.07E3
File:T006002 #1-485 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:1543
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,6172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A4.22E6
A3.01E6
File:T006002 #1-485 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:577
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A3.50E6
A2.49E6
File:T006002 #1-485 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50


File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:66
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,264.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A1.33E3
A2.22E3
A2.03E3
A2.39E3
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:52
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,208.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A2.56E3
A674.62
A1.62E3
A1.07E3
A896.25
A615.61
A1.72E3
A1.50E3
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:90
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,360.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A1.67E6
A1.50E6
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:114
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,456.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A3.87E6
A3.50E6
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50


File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:64
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A611.43
A2.03E3
A1.09E3
A1.08E3
A3.17E3
A343.40
A1.50E3
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:52
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,208.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A870.02
A1.95E3
A612.86
A1.63E3
A1.85E3
A3.46E3
A825.32
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:1444
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,5776.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A3.51E5
A3.41E6
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:703
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2812.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A2.79E6
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
36:39 36:47 36:55 37:07 37:15 37:28 37:48 37:58
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00


File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:60
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,240.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME - 16:50
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:63
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME - 16:50
A5.54E3
A1.51E3
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME - 16:50
37:15
37:58
39:45
40:16
41:45
43:14
43:45
44:17
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME - 16:50
37:01
37:39
38:16
38:50
39:22
40:12
40:29
41:00
41:38
42:12
42:48
43:23
44:21
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00


File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:66
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,264.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A1.08E4
A1.47E3
A2.67E3
A1.13E3
41:24 41:30 41:36 41:42 41:48 41:54 42:00 Time
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:58
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A9.12E3
A971.40
A1.53E3
41:24 41:30 41:36 41:42 41:48 41:54 42:00 Time
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:1142
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,4568.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A4.26E6
41:24 41:30 41:36 41:42 41:48 41:54 42:00 Tim
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T Noise:574
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2296.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
A4.83E6
41:24 41:30 41:36 41:42 41:48 41:54 42:00 Ti
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50
41:24 41:29 41:37 41:45 41:53
41:24 41:30 41:36 41:42 41:48 41:54 42:00 Ti

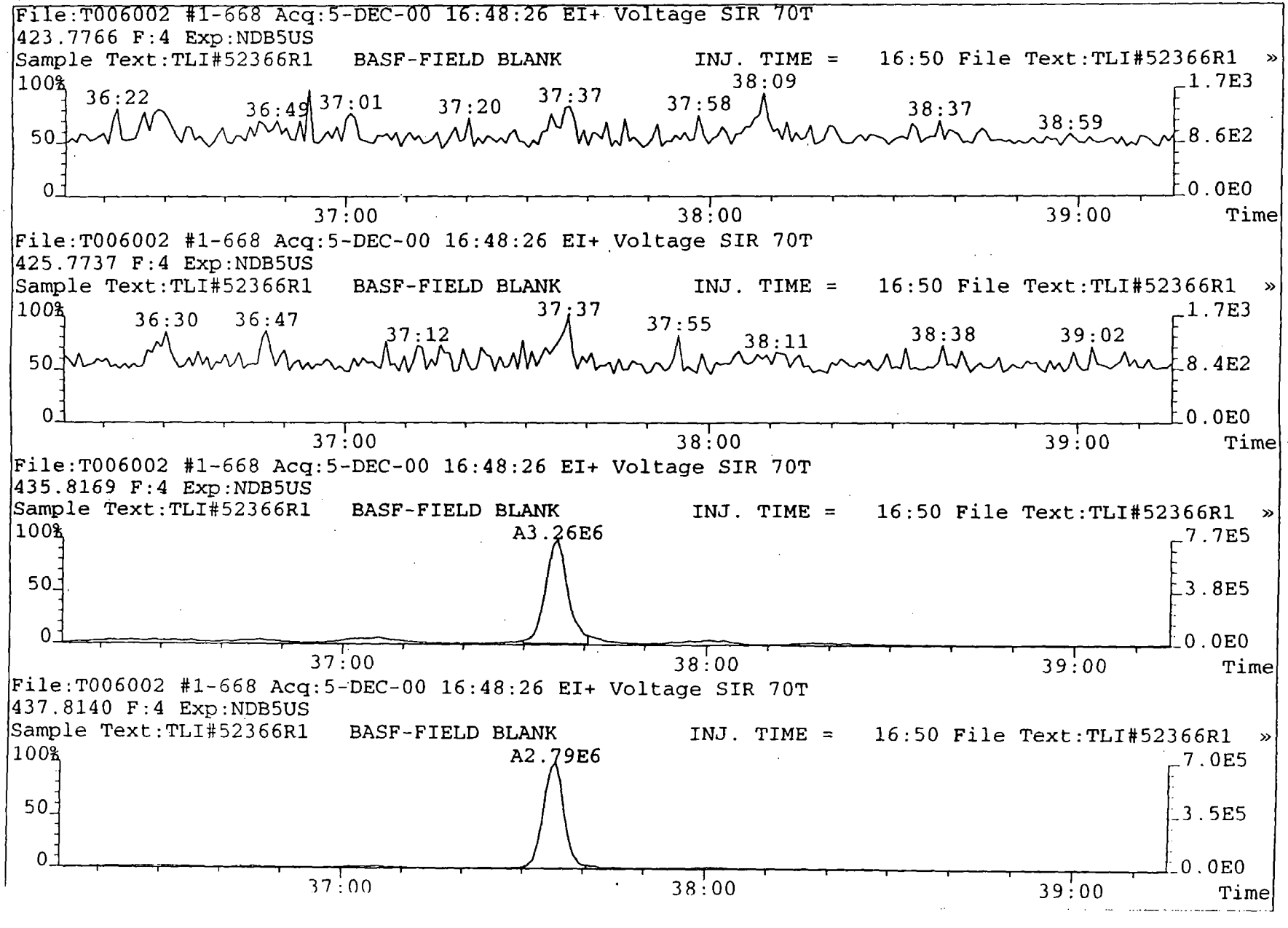


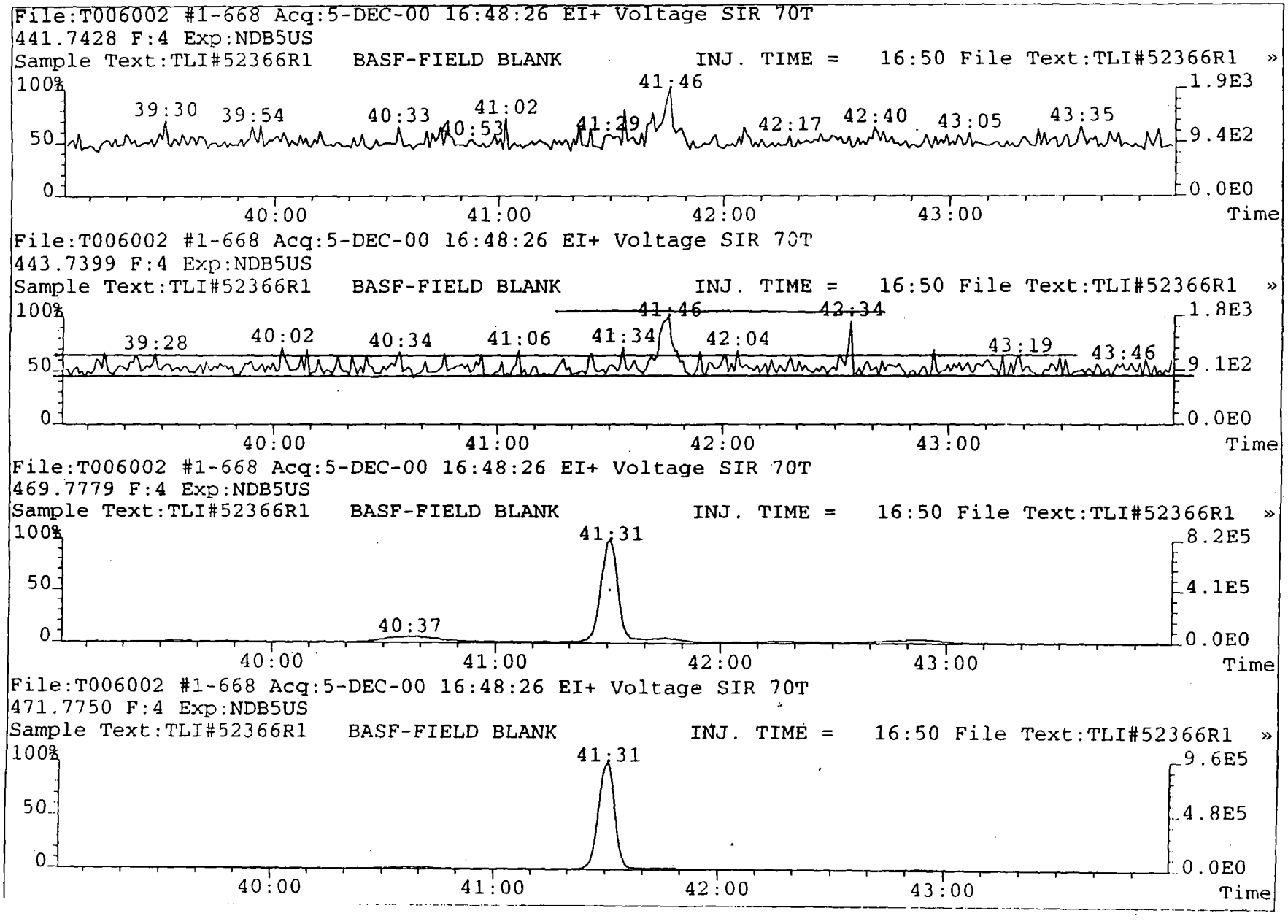
Channel	I	330.9792		Peak top	
Height	.68 volts		Span	200 ppm	

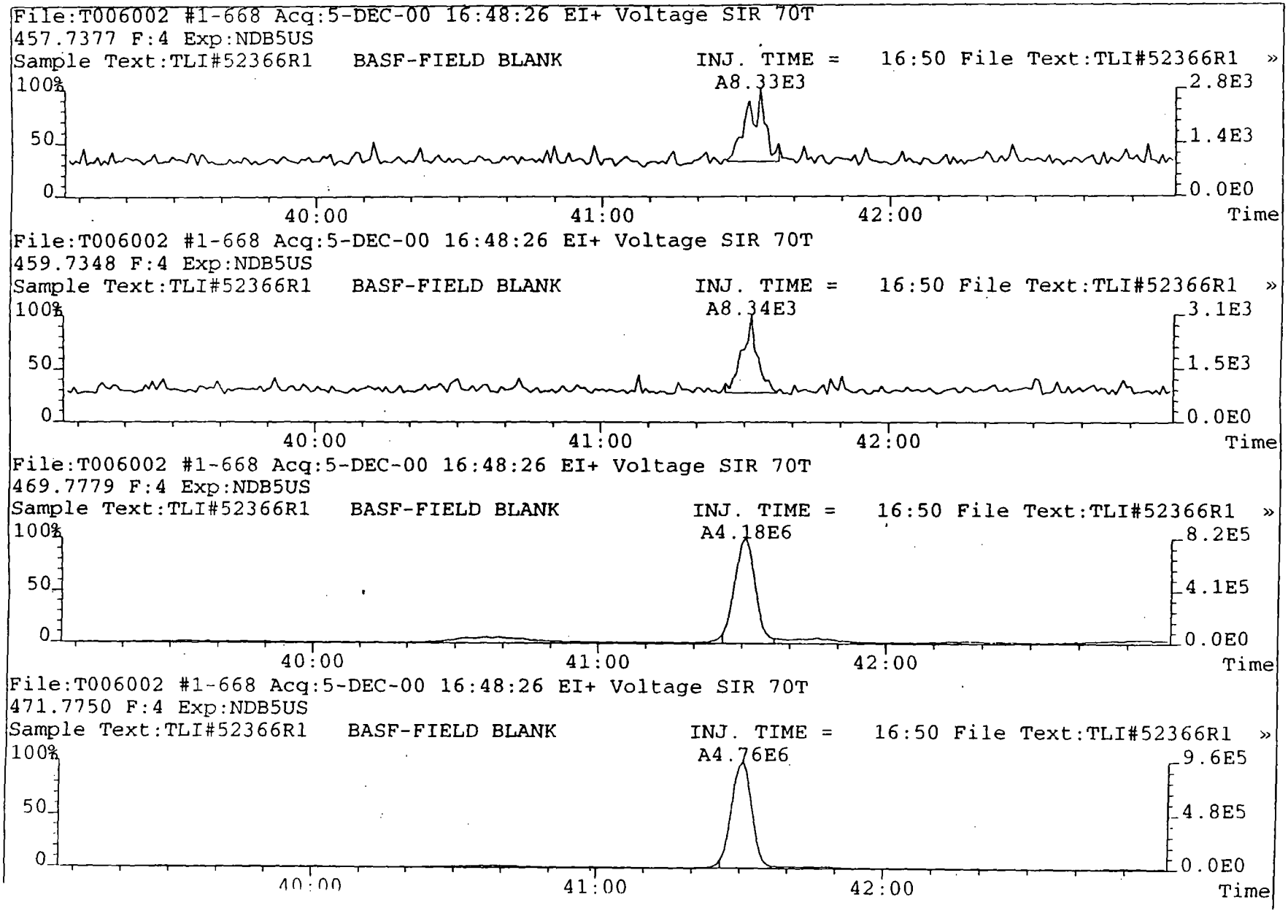
System file name	MOBIUS
Data file name	A:TD05003
Resolution	10000
Group number	2
Ionization mode	EI+
Switching	VOLTAGE
Ref. masses	292.9825, 416.9769

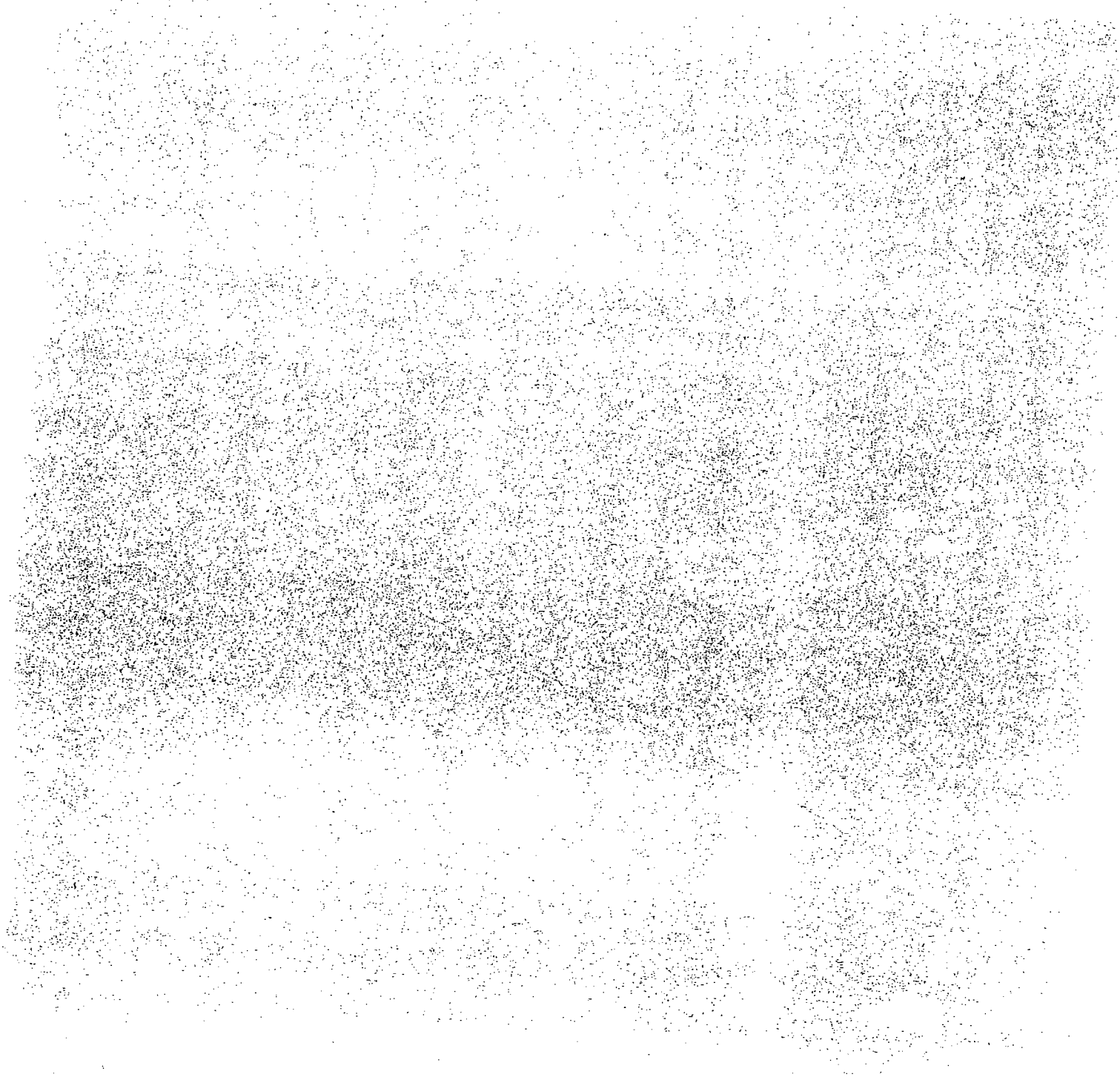
A	293	J	331	S	368
B	304	K	332	T	370
C	306	L	334	U	376
D	316	M	340	V	418
E	318	N	342		
F	320	O	352		
G	322	P	354		
H	328	Q	356		
I	331	R	358		

Ref. mass	416.9769			Peak top	
Height	.13 volts		Span	200 ppm	


File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
423.7766 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50 File Text:TLI#52366R1
100%
50
0
36:22
36:49
37:01
37:20
37:37
37:58
38:09
38:37
38:59
1.7E3
8.6E2
0.0E0
37:00
38:00
39:00
Time
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
425.7737 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50 File Text:TLI#52366R1
100%
50
0
36:30
36:47
37:12
37:37
37:55
38:11
38:38
39:02
1.7E3
8.4E2
0.0E0
37:00
38:00
39:00
Time
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
435.8169 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50 File Text:TLI#52366R1
100%
50
0
A3.26E6
7.7E5
3.8E5
0.0E0
37:00
38:00
39:00
Time
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
437.8140 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50 File Text:TLI#52366R1
100%
50
0
A2.79E6
7.0E5
3.5E5
0.0E0
37:00
38:00
39:00
Time


File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
441.7428 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50 File Text:TLI#52366R1
100%
50
0
39:30
39:54
40:33
41:02
40:53
41:29
41:46
42:17
42:40
43:05
43:35
1.9E3
9.4E2
0.0E0
40:00
41:00
42:00
43:00
Time
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
443.7399 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50 File Text:TLI#52366R1
100%
50
0
39:28
40:02
40:34
41:06
41:34
41:46
42:04
42:34
43:19
43:46
1.8E3
9.1E2
0.0E0
40:00
41:00
42:00
43:00
Time
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
469.7779 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50 File Text:TLI#52366R1
100%
50
0
40:37
41:31
8.2E5
4.1E5
0.0E0
40:00
41:00
42:00
43:00
Time
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
471.7750 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50 File Text:TLI#52366R1
100%
50
0
41:31
9.6E5
4.8E5
0.0E0
40:00
41:00
42:00
43:00
Time


File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
457.7377 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50 File Text:TLI#52366R1
A8.33E3
100%
50
0
2.8E3
1.4E3
0.0E0
40:00
41:00
42:00
Time
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
459.7348 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50 File Text:TLI#52366R1
A8.34E3
100%
50
0
3.1E3
1.5E3
0.0E0
40:00
41:00
42:00
Time
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
469.7779 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50 File Text:TLI#52366R1
A4.18E6
100%
50
0
8.2E5
4.1E5
0.0E0
40:00
41:00
42:00
Time
File:T006002 #1-668 Acq:5-DEC-00 16:48:26 EI+ Voltage SIR 70T
471.7750 F:4 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-FIELD BLANK INJ. TIME = 16:50 File Text:TLI#52366R1
A4.76E6
100%
50
0
9.6E5
4.8E5
0.0E0
40:00
41:00
42:00
Time



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TLI Project: **52366r1** Method 8290 PCDD/PCDF Analysis (
Client Sample: **BASF-SMW-13** Analysis File: **T0060**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/2000**	Spike File:	**SPMIT32S**
TLI ID:	**274-99-7B**	Date Extracted:	**12/01/2000**	ICal:	**TF57140**
		Date Analyzed:	**12/05/2000**	ConCal:	**T005996**
Sample Size:	**1.050 L**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005998**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**BWL**	% Solids:	**n/a**

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	ND	5.3				___
1,2,3,7,8-PeCDD	ND	4.8				___
1,2,3,4,7,8-HxCDD	EMPC		7.3			J__
1,2,3,6,7,8-HxCDD	70.9			1.15	34:09	___
1,2,3,7,8,9-HxCDD	40.2			1.13	34:29	J__
1,2,3,4,6,7,8-HpCDD	1370			0.99	37:35	___
1,2,3,4,6,7,8,9-OCDD	5240			0.84	41:30	___
2,3,7,8-TCDF	132			0.84	26:08	___
1,2,3,7,8-PeCDF	24.8			1.63	29:56	J__
2,3,4,7,8-PeCDF	23.7			1.47	30:36	J__
1,2,3,4,7,8-HxCDF	41.5			1.22	33:20	J__
1,2,3,6,7,8-HxCDF	15.6			1.27	33:27	J__
2,3,4,6,7,8-HxCDF	15.2			1.28	33:56	J__
1,2,3,7,8,9-HxCDF	7.5			1.11	34:46	J__
1,2,3,4,6,7,8-HpCDF	56.9			1.17	36:29	___
1,2,3,4,7,8,9-HpCDF	10.4			1.05	38:06	J__
1,2,3,4,6,7,8,9-OCDF	42.5			0.91	41:43	J__

Totals	Conc. (pg/L)	Number	DL	EMPC	Flags
Total TCDD	83.1	3		95.8	___
Total PeCDD	EMPC			26.0	___
Total HxCDD	637	5		644	___
Total HpCDD	2430	2			___
Total TCDF	482	10		770	X__
Total PeCDF	137	5		224	X__
Total HxCDF	166	7		184	___
Total HpCDF	111	3			___

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TLI Project: 52366r1 Method 8290 PCDD/PCDF Analysis
Client Sample: BASF-SMW-13 Analysis File: T006

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Fla
$^{13}C_{12}$-2,3,7,8-TCDF	301	15.8	40%-130%	0.75	26:06	V_
$^{13}C_{12}$-2,3,7,8-TCDD	351	18.4	40%-130%	0.81	26:48	V_
$^{13}C_{12}$-1,2,3,7,8-PeCDF	347	18.2	40%-130%	1.47	29:56	V_
$^{13}C_{12}$-1,2,3,7,8-PeCDD	449	23.6	40%-130%	1.48	30:55	V_
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	372	19.5	40%-130%	0.50	33:26	V_
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	395	20.7	40%-130%	1.21	34:08	V_
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	469	24.6	25%-130%	0.44	36:27	V_
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	455	23.9	25%-130%	1.00	37:34	V_
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	973	25.5	25%-130%	0.84	41:29	_

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Fla
$^{13}C_{12}$-2,3,4,7,8-PeCDF	311	16.3	40%-130%	1.52	30:36	V_
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	385	20.2	40%-130%	0.50	33:19	V_
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	388	20.4	40%-130%	1.20	34:02	V_
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	424	22.3	25%-130%	0.43	38:06	V_

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Fla
$^{37}Cl_4$-2,3,7,8-TCDD	158	82.7	40%-130%	26:48	_

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Fla
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	392	20.6	40%-130%	0.49	34:44	V_
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	315	16.5	40%-130%	0.49	33:56	V_

Recovery Standards	Ratio	RT	Fla
$^{13}C_{12}$-1,2,3,4-TCDD	0.79	26:37	_
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.19	34:28	_

Data Reviewer: JCA 12/13/2000

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TLI Project: **52366r1** Toxicity Equivalents Re
Client Sample: **BASF-SMW-13** Analysis File: **T00**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/00**	Spike File:	**SPMIT3**
TLI ID:	**274-99-7B**	Date Extracted:	**12/01/00**	ICal:	**TF57140**
		Date Analyzed:	**12/05/00**	ConCal:	**T005996**
Sample Size:	**1.050 L**	Dilution Factor:	**1**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005998**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**BWL**	% Solids:	**n/a**

Analytes	Conc. (pg/L)		TEF		Equivalent
2,3,7,8-TCDD	{5.3}	x	1.	=	5.3
1,2,3,7,8-PeCDD	{4.8}	x	0.5	=	2.4
1,2,3,4,7,8-HxCDD	[7.3]	x	0.1	=	0.73
1,2,3,6,7,8-HxCDD	70.9	x	0.1	=	7.09
1,2,3,7,8,9-HxCDD	40.2	x	0.1	=	4.02
1,2,3,4,6,7,8-HpCDD	1370	x	0.01	=	13.70
1,2,3,4,6,7,8,9-OCDD	5240	x	0.001	=	5.240
TOTAL PCDD					38.5
2,3,7,8-TCDF	101	x	0.1	=	10.1
1,2,3,7,8-PeCDF	24.8	x	0.05	=	1.24
2,3,4,7,8-PeCDF	23.7	x	0.5	=	11.9
1,2,3,4,7,8-HxCDF	41.5	x	0.1	=	4.15
1,2,3,6,7,8-HxCDF	15.6	x	0.1	=	1.56
2,3,4,6,7,8-HxCDF	15.2	x	0.1	=	1.52
1,2,3,7,8,9-HxCDF	7.5	x	0.1	=	0.75
1,2,3,4,6,7,8-HpCDF	56.9	x	0.01	=	0.569
1,2,3,4,7,8,9-HpCDF	10.4	x	0.01	=	0.104
1,2,3,4,6,7,8,9-OCDF	42.5	x	0.001	=	0.0425
TOTAL PCDF					31.9

Total EPA TEFs, 1989a: 70.4 pg/L

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

GRY_TEF v1.0X.MI

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Initial ....Date...

Data Review By: JCA 12/13/00

Calculated Noise Height: 0.05

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 T006003B.dbf
12/13/2000 Matched GC Peaks / Ratio / Ret. Time

Compound / M_I	QC	Log	Omit	Why	RT	OK	Ratio	Total Area/Ht	Area/Ht Peak1	Area/Ht Peak2	Rel.RT	Compound Name	ID	Flag
TCDF					0.65-0.89					0.880-1.070				
304-306	DC	NL			Height			0.10	0.06	0.04				
					23:33		0.84	1.95	0.89	1.06	0.902			
					23:50		0.73	1.66	0.70	0.96	0.913			
	A				24:10	RO	0.92	3.40	1.77	1.92	0.926			
					24:32		0.89	3.92	1.85	2.07	0.940			
					24:52		0.73	3.64	1.54	2.10	0.953			
					25:08		0.86	2.92	1.35	1.57	0.963			
					25:26		0.88	6.13	3.01	3.42	0.974			
					25:44		0.85	10.64	4.90	5.74	0.986	1278-TCDF		AN
					25:58		0.78	1.66	0.73	0.93	0.995			
					26:08		0.84	12.96	5.93	7.03	1.001	2378-TCDF		AN
					26:33	RO	0.96	2.00	1.08	1.13	1.017			
					26:44	RO	1.07	1.27	0.77	0.72	1.024			
	X		X		26:54	RO	0.88	1.88	0.88	1.00	1.031			
	X		X		27:09	RO	0.86	9.68	4.48	5.20	1.040			
	X		X		27:29	RO	0.86	10.07	4.65	5.42	1.053			
					27:47		0.71	1.73	0.72	1.01	1.064			
	DC		WH		28:04		0.73	3.40			1.075			
304-306			16	Peaks				75.81						
13C12-TCDF					0.65-0.89					0.962-1.038				
316-318	DC	NL			Height			0.13	0.08	0.05				
					25:07	RO	0.60	1.54	0.67	1.11	0.962			
					26:06		0.75	132.52	78.16	104.36	1.000	13C12-2378-TCDF		ISO
					Height			50.05	21.36	28.69				
					26:44	RO	1.13	0.55	0.35	0.31	1.024			
	DC		WH		27:55	RO	1.42	0.42			1.070			
316-318			3	Peaks				184.61						

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

Compound / M_I	QC	Log	Omit	Why	RT	OK	Ratio	Total Area/Ht	Area/Ht Peak1	Area/Ht Peak2	Rel.RT	Compound Name	ID	Flag
TCDD					0.65-0.89					0.904-1.042				
320-322	DC	NL			Height			0.06	0.03	0.03				
M					24:23		0.67	3.48	1.40	2.08	0.910	1368-TCDD		AN
M					24:46		0.82	2.02	0.91	1.11	0.924	1379-TCDD		AN
	DC	SN			25:02	RO	0.18	0.34			0.934			
	DC	SN			25:09		0.87	0.28			0.938			
					25:41		0.70	1.26	0.52	0.74	0.958			
	DC	SN			25:56	RO	0.27	0.28			0.968			
	DC	SN			26:07		0.67	0.20			0.975			
	DC	SN			26:19		0.65	0.43			0.982			
					26:41	RO	0.93	1.06	0.56	0.60	0.996			
D	D	SN			26:48		0.81	0.49			1.000	2378-TCDD		AN

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Compound/ M_I....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
	DC	SN		27:19	RO	1.30	0.18			1.019			
	DC	SN		27:46	RO	1.29	0.12			1.036			
320-322			4 Peaks				7.82						
37C1-TCDD										0.925-1.075			
328	DC	NL			Height		0.06	0.06					
	DC	WL		24:15			0.04			0.905			
	DC	WL		24:23			0.17			0.910			
	DC	WL		24:32			0.19			0.915			
	DC	WL		24:39			0.91			0.920			
	DC	WL		24:45			0.86			0.924			
	DC	SN		25:02			0.14			0.934			
	DC	SN		25:06			0.33			0.937			
				25:30			58.76	58.76		0.951			
	DC	SN		25:49			0.32			0.963			
	DC	SN		26:01			0.12			0.971			
	DC	SN		26:06			0.09			0.974			
	DC	SN		26:07			0.14			0.975			
				26:48			66.40	66.40		1.000	37C1-TCDD	CLS	
	DC	SN		27:00			0.05			1.007			
				27:11			1.65	1.65		1.014			
				28:06			0.68	0.68		1.049			
	DC	SN		28:17			0.13			1.055			
328			4 Peaks				127.49						
13C12-TCDD					0.65-0.89					0.925-1.075			
332-334	DC	NL			Height		0.16	0.12	0.04				
				26:37	0.79		901.85	399.30	502.55	0.993	13C12-1234-TCDD	RS1	
				26:48	0.31		174.64	78.12	96.52	1.000	13C12-2378-TCDD	IS1	
					Height		49.51	21.74	27.77				
332-334			2 Peaks				1,076.49						

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

PeCDF													
340-342		DC	NL			Height	0.09	0.04	0.05				
				28:00		1.53	1.90	1.15	0.75	0.935			J
	M			29:05		1.44	4.63	2.73	1.90	0.972			
	D	D	SN	29:15		1.34	0.68			0.977			
		DC	SN	29:22	RO	0.92	0.38			0.981			
	D	D	SN	29:34	RO	2.36	0.92			0.988			
	D	D	SN	29:40	RO	1.81	1.35			0.991			
	AN			29:56		1.63	2.34	1.45	0.89	1.000	12378-PeCDF	AN	J
	MXN		X	29:59	RO	1.49	4.51	2.70	1.81	1.002			J
				30:13	RO	1.25	2.09	1.27	1.02	1.009			J
	M			30:36		1.47	2.27	1.35	0.92	1.022	23478-PeCDF	AN	J
				30:45		1.44	1.93	1.14	0.79	1.027			J
		DC	SN	30:58	RO	0.42	0.16			1.035			
		DC	SN	31:07		1.54	0.33			1.040			
	D	D	SN	31:11	RO	1.24	0.35			1.042			
	X		X	31:17	RO	1.40	1.63	0.95	0.68	1.045			J
		DC	SN	31:43		1.55	0.28			1.060			

Compound/ M_I....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
340-342			8 Peaks				21.30						
13C12-PeCDF				1.32-1.78					0.866-1.134				
352-354	DC	NL		Height			0.09	0.04	0.05				
	DC	SN	28:02	RO	0.79		0.25			0.937			
			28:22	RO	0.93		0.64	0.39	0.42	0.948			
			29:05		1.45		3.26	1.93	1.33	0.972			
	DC	SN	29:17	RO	0.85		0.18			0.978			
			29:33	RO	1.10		2.52	1.09	0.99	0.987			
			29:56		1.47		197.24	117.27	79.97	1.000	13C12-PeCDF 123	IS2	
				Height			58.96	35.10	23.86				
			30:12		1.67		1.44	0.90	0.54	1.009			
			30:36		1.52		174.95	105.56	69.39	1.022	13C12-PeCDF 234	SUR1	
			30:57	RO	3.89		0.89	1.36	0.35	1.034			
	DC	SN	31:20	RO	5.53		0.43			1.047			
			31:33		1.55		1.94	1.18	0.76	1.054			
	DC	SN	31:42	RO	8.00		0.08			1.059			
352-354			8 Peaks				382.88						

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

Compound/ M_I....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
PeCDD				1.32-1.78					0.938-1.020				
356-358	DC	NL		Height			0.07	0.04	0.03				
	DC	WL	28:54	RO	1.03		0.54			0.935			
D	D	SN	29:12	RO	0.36		3.09			0.944			
D	D	SN	29:38		1.68		0.59			0.958			
			29:52	RO	0.97		1.25	0.76	0.78	0.966			J
			30:02	RO	1.04		0.84	0.51	0.49	0.971			J
D	D	SN	30:12	RO	2.00		0.89			0.977			
	DC	SN	30:21		1.35		0.40			0.982			
D	D	SN	30:28		1.67		0.72			0.985			
	DC	SN	30:39		1.40		0.60			0.991			
	DC	SN	30:46	RO	0.40		0.16			0.995			
D	D	SN	30:55	RO	1.16		0.97			1.000	123?8-PeCDD	AN	
	DC	SN	31:24	RO	4.00		0.18			1.016			
	DC	WH	31:48	RO	0.97		0.48			1.029			
356-358			2 Peaks				2.09						
13C12-PeCDD				1.32-1.78					0.871-1.129				
368-370	DC	NL		Height			0.06	0.03	0.03				
			29:51	RO	2.32		0.79	0.72	0.31	0.965			
			29:59	RO	1.24		1.05	0.51	0.41	0.970			
	DC	SN	30:12	RO	2.23		0.33			0.977			
	DC	SN	30:22	RO	0.16		0.12			0.982			
			30:55		1.48		144.89	86.51	58.38	1.000	13C12-PeCDD 123	IS3	
				Height			47.38	28.56	18.82				
	DC	SN	31:35	RO	3.67		0.15			1.022			
368-370			3 Peaks				146.73						

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

Compound/ M_3	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				0.963-1.047			
374-376		DC	NL			Height	0.10	0.04	0.06				
				32:21		1.43	0.68	0.40	0.28	0.968			J
				32:29		1.28	3.95	2.22	1.73	0.972			J
				32:57		1.14	3.56	1.90	1.66	0.986			J
		DC	SN	33:10		1.33	0.21			0.992			
				33:20		1.22	4.21	2.31	1.90	0.997	123478-HxCDF	AN	J
				33:27		1.27	1.66	0.93	0.73	1.000	123678-HxCDF	AN	J
	XM		X	33:37	RO	1.35	1.53	0.88	0.65	1.005			J
		DC	SN	33:44	RO	0.71	0.22			1.009			
	M			33:56		1.28	1.46	0.82	0.64	1.015	234678-HxCDF	AN	J
	M			34:46		1.11	0.59	0.31	0.28	1.040	123789-HxCDF	AN	J
	A			34:48	RO	1.45	0.25	0.16	0.11	1.041			J
374-376			9	Peaks			17.89						
13C12-HxCDF						0.43-0.59				0.880-1.120			
384-386		DC	NL			Height	0.15	0.07	0.08				
				32:20		0.53	0.89	0.31	0.58	0.967			
				32:29	RO	0.61	1.66	0.56	0.92	0.972			
				33:19		0.50	191.74	64.04	127.70	0.997	13C12-HxCDF 478	SUR2	
				33:26		0.50	188.29	62.82	125.47	1.000	13C12-HxCDF 678	IS4	
						Height	59.15	19.89	39.26				
				33:56		0.49	145.34	48.00	97.34	1.015	13C12-HxCDF 234	ALT2	
		DC	SN	34:09	RO	0.24	0.24			1.021			
				34:44		0.49	132.91	43.96	88.95	1.039	13C12-HxCDF 789	ALT1	
384-386			6	Peaks			660.83						

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

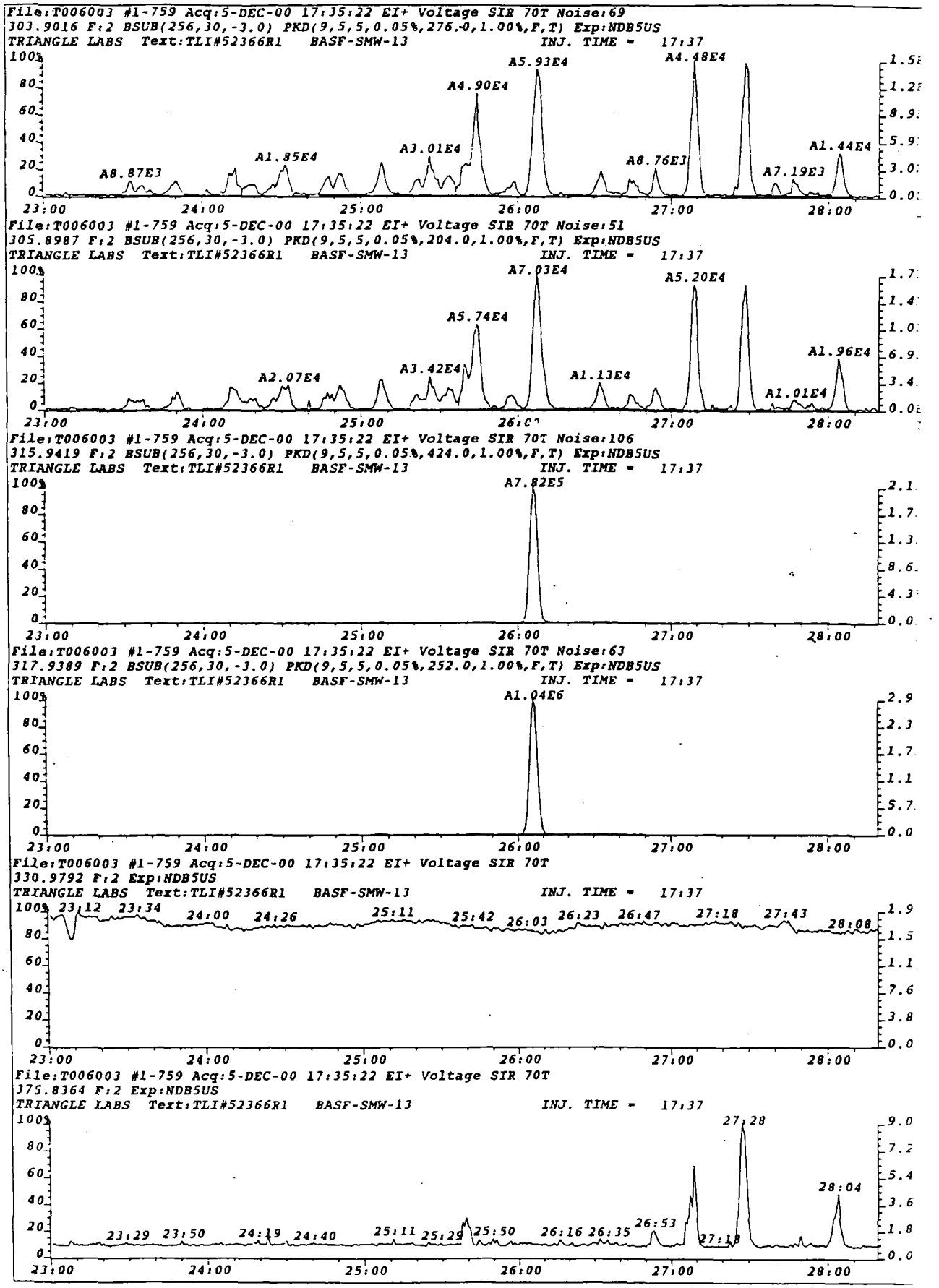
HxCDD						1.05-1.43				0.957-1.013			
390-392		DC	NL			Height	0.09	0.05	0.04				
				32:50		1.22	8.71	4.78	3.93	0.962			
		DC	SN	32:58		1.33	0.14			0.966			
				33:17		1.30	3.01	1.70	1.31	0.975			J
				33:30		1.21	23.42	12.80	10.62	0.981			
		DC	SN	33:41		1.07	0.31			0.987			
		DC	SN	33:52	RO	0.18	0.04			0.992			
		DC	SN	33:55	RO	3.00	0.07			0.994			
	M			34:03	RO	0.79	0.49	0.27	0.34	0.998	123478-HxCDD	AN	J
	M			34:09		1.15	4.72	2.52	2.20	1.000	123678-HxCDD	AN	
				34:29		1.13	2.71	1.44	1.27	1.010	123789-HxCDD	AN	J
		DC	SN	34:33	RO	4.00	0.07			1.012			
		DC	WH	34:45	RO	2.40	0.22			1.018			
		DC	WH	34:56	RO	0.75	0.11			1.023			
390-392			6	Peaks			43.06						
13C12-HxCDD						1.05-1.43				0.971-1.029			
402-404		DC	NL			Height	0.15	0.09	0.06				
				33:28		1.42	0.92	0.54	0.38	0.980			
				34:02		1.20	127.15	69.29	57.86	0.997	13C12-HxCDD 478	SUR3	
				34:08		1.21	124.89	68.50	56.39	1.000	13C12-HxCDD 678	IS5	
						Height	38.11	20.72	17.39				

Compound/ M_S....	QC.Log	Cmit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
				34:28		1.19	663.49	361.16	302.33	1.010	13C12-HxCDD	789	RS2
				34:42	RO	1.65	0.38	0.28	0.17	1.017			
402-404		5	Peaks				916.83						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF				0.88-1.20					0.995-1.050				
408-410	DC	NL		Height			0.08	0.05	0.03				
				36:29		1.17	5.95	3.21	2.74	1.001	1234678-HpCDF	AN	
	DC	SN		36:46	RO	1.73	0.31			1.009			
				36:55		0.95	4.01	1.95	2.06	1.013			J
	DC	SN		37:34	RO	0.53	0.20			1.031			
				38:06		1.05	0.34	0.43	0.41	1.045	1234789-HpCDF	AN	J
408-410		3	Peaks				10.80						
13C12-HpCDF				0.37-0.51					0.945-1.110				
418-420	DC	NL		Height			0.10	0.04	0.06				
				36:27		0.44	158.61	48.12	110.49	1.000	13C12-HpCDF	678	IS6
				Height			42.79	13.28	29.51				
	DC	SN		37:04		0.38	0.18			1.017			
	DC	SN		37:17		0.47	0.25			1.023			
				38:06		0.43	111.46	33.42	78.04	1.045	13C12-HpCDF	789	SUR4
	DC	SN		38:21	RO	0.24	0.23			1.052			
	DC	SN		38:32	RO	1.86	0.10			1.057			
	DC	SN		38:41	RO	0.75	0.49			1.061			
418-420		2	Peaks				270.07						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD				0.88-1.20					0.974-1.004				
424-426	DC	NL		Height			0.14	0.07	0.07				
				36:46		1.04	64.84	32.99	31.85	0.979			
				37:35		0.99	83.55	41.52	42.03	1.000	1234678-HpCDD	AN	
424-426		2	Peaks				148.39						
13C12-HpCDD				0.88-1.20					0.973-1.027				
436-438	DC	NL		Height			0.16	0.10	0.06				
				37:34		1.00	136.08	68.13	67.95	1.000	13C12-HpCDD	678	IS7
				Height			34.53	17.50	17.03				
436-438		1	Peak				136.08						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF				0.76-1.02					0.904-1.096				
442-444	DC	NL		Height			0.07	0.03	0.04				
	DC	WL		36:22	RO	0.67	0.08			0.877			
	DC	WL		36:28		1.00	0.18			0.879			
	DC	SN		37:46	RO	0.22	0.04			0.910			
	DC	SN		37:51		0.83	0.11			0.912			
	DC	SN		38:09	RO	0.73	0.17			0.920			
	DC	SN		38:40	RO	0.20	0.02			0.932			
	DC	SN		38:43	RO	1.33	0.06			0.933			

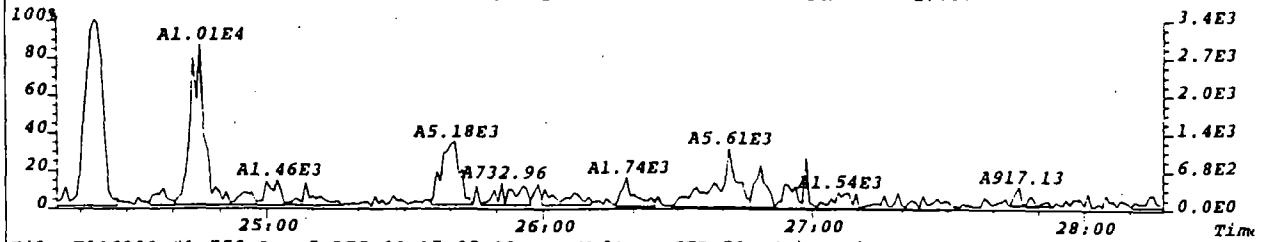
Compound M_Z	QC Log	Cmit	Why	RT	OK	Ratio	Total Area/Ht	Area/Ht Peak1	Area/Ht Peak2	Rel.RT	Compound Name	ID	Flags
	DC	SN		38:49	RO	0.25	0.04			0.936			
	DC	SN		38:57	RO	1.17	0.11			0.939			
	DC	SN		39:48		1.00	0.12			0.959			
	DC	SN		40:58	RO	0.32	0.13			0.988			
				41:43		0.91	2.90	1.38	1.52	1.006	OCDF	AN	J
	DC	SN		41:56	RO	0.29	0.04			1.011			
	DC	SN		42:05	RO	2.00	0.08			1.014			
	DC	SN		43:06	RO	0.70	0.15			1.039			
	DC	SN		43:14	RO	3.50	0.08			1.042			
	DC	SN		44:28	RO	0.17	0.02			1.072			
442-444			1 Peak				2.90						
OCDD						0.76-1.02				0.904-1.096			
458-460	DC	NL				Height	0.06	0.03	0.03				
				41:30		0.84	297.50	136.08	161.42	1.000	OCDD	AN	
458-460			1 Peak				297.50						
13C12-OCDD						0.76-1.02				0.996-1.004			
470-472	DC	NL				Height	0.09	0.06	0.03				
				41:29		0.84	236.49	107.85	128.64	1.000	13C12-OCDD	IS8	
						Height	51.27	23.32	27.95				
	DC	WH		41:51	RO	0.33	0.08			1.009			
	DC	WH		41:57	RO	1.43	0.13			1.011			
470-472			1 Peak				236.49						

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:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:69
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A8.87E3
A1.85E4
A3.01E4
A4.90E4
A5.93E4
A8.76E3
A4.48E4
A7.19E3
A1.44E4
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:51
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,204.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A2.07E4
A3.42E4
A5.74E4
A7.03E4
A1.13E4
A5.20E4
A1.01E4
A1.96E4
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:106
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,424.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A7.82E5
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:63
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A1.04E6
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
23:12 23:34 24:00 24:26 25:11 25:42 26:03 26:23 26:47 27:18 27:43 28:08
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
23:29 23:50 24:19 24:40 25:11 25:29 25:50 26:16 26:35 26:53 27:18 27:28 28:04
23:00 24:00 25:00 26:00 27:00 28:00

File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:39
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37



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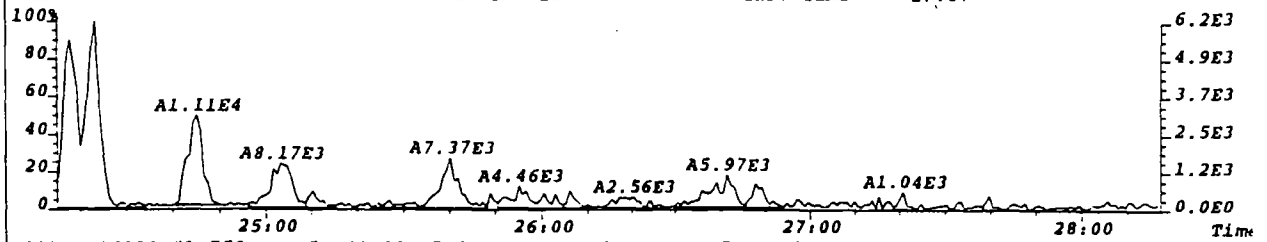
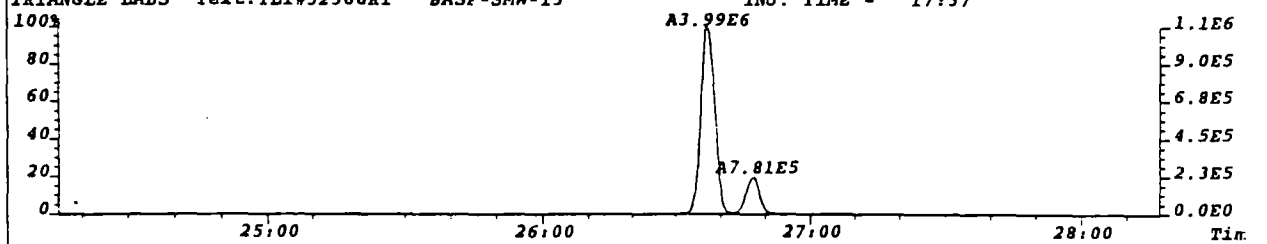
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37



File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:146
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,584.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37



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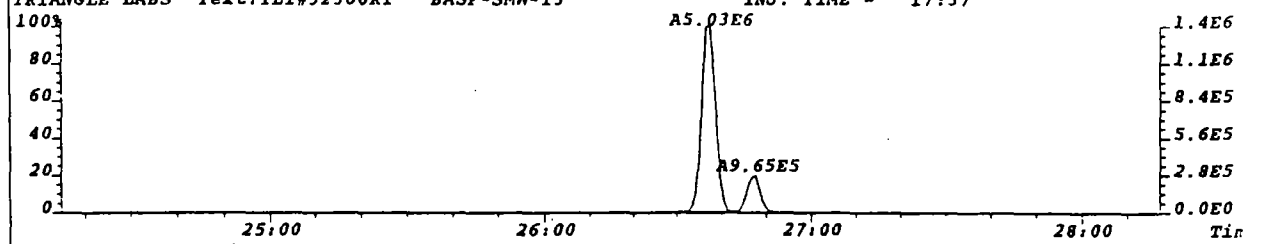
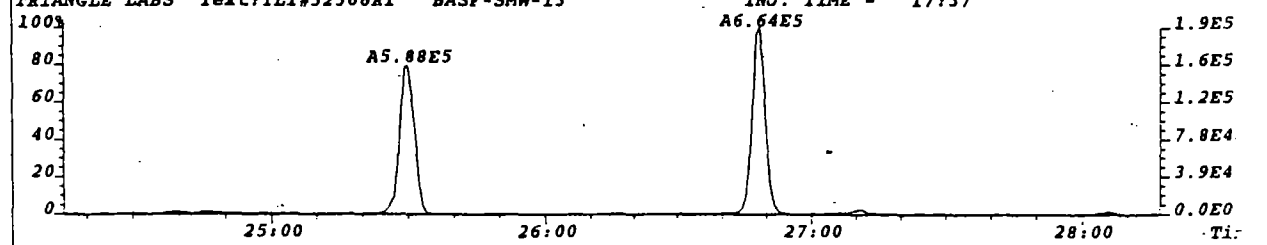
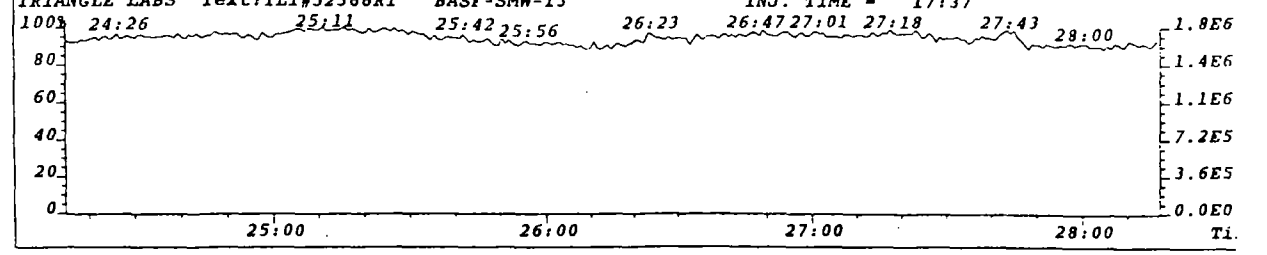
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37

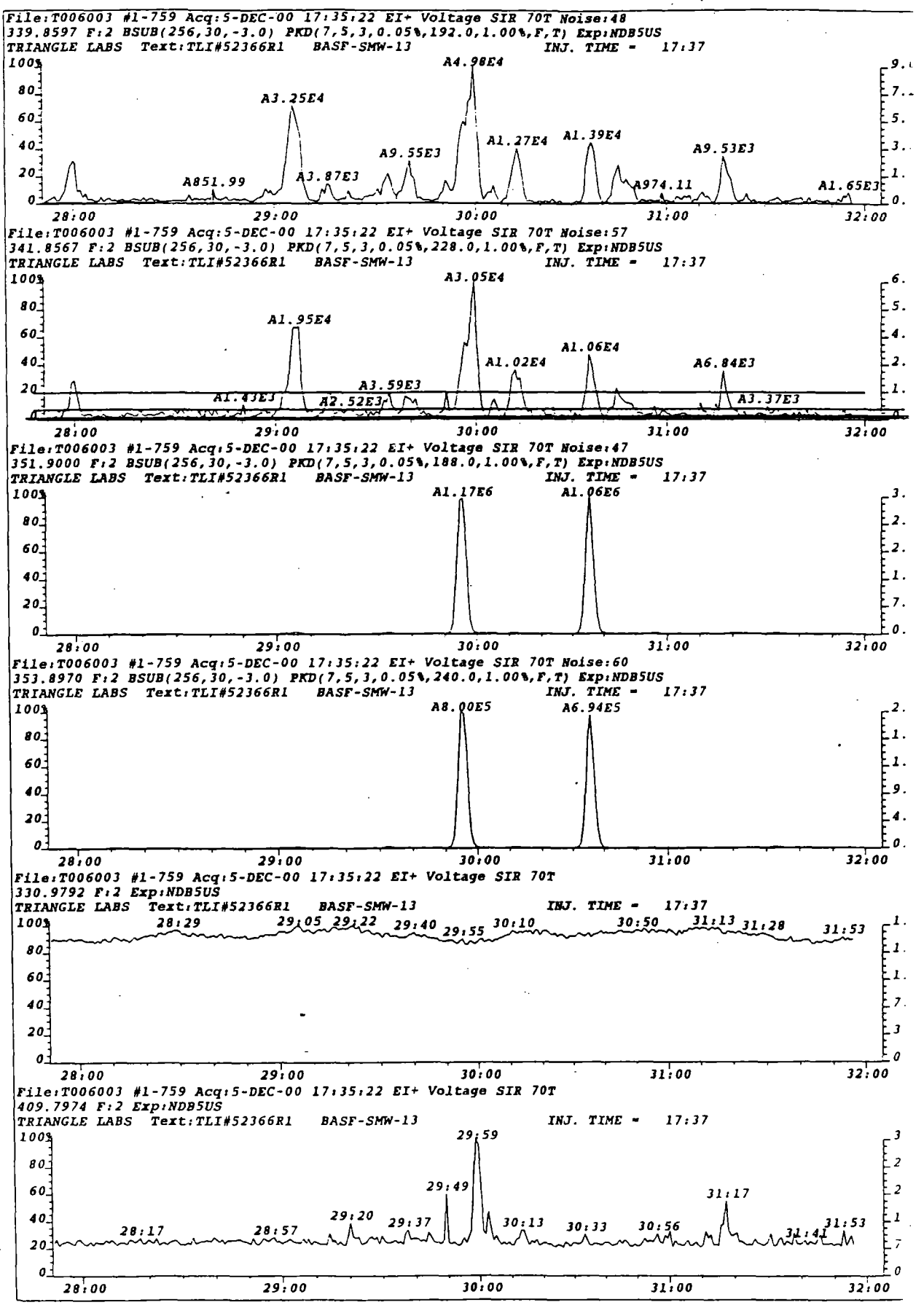


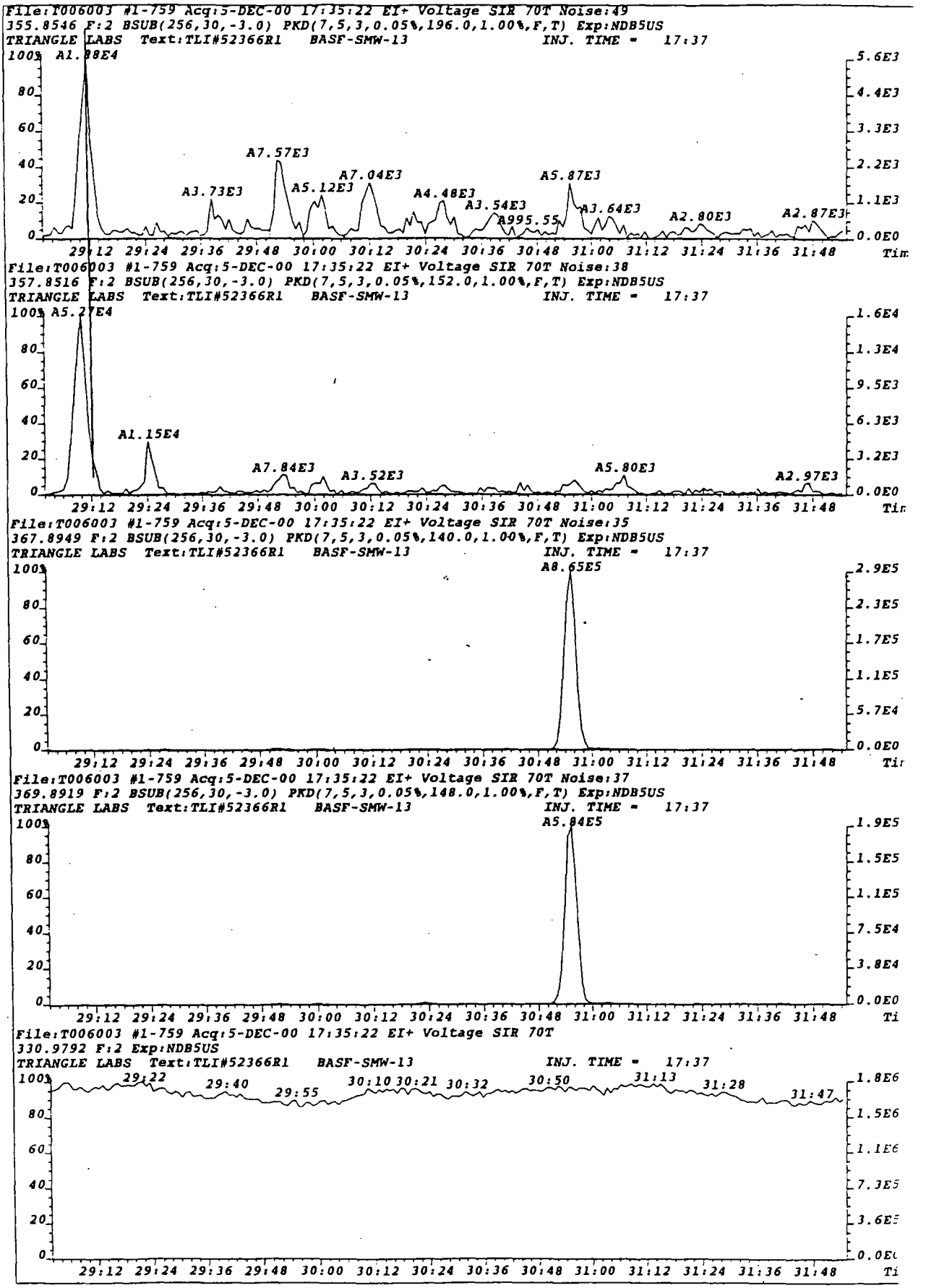
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:78
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,312.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37



File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37




File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:48
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,192.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A4.98E4
A3.25E4
A1.27E4
A1.39E4
A9.55E3
A9.53E3
A851.99
A3.87E3
A974.11
A1.65E3
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:57
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,228.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A3.05E4
A1.95E4
A1.06E4
A1.02E4
A6.84E3
A3.59E3
A1.43E3
A2.52E3
A3.37E3
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:47
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,188.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A1.17E6
A1.06E6
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:60
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,240.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A8.00E5
A6.94E5
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
28:29
29:05
29:22
29:40
29:55
30:10
30:50
31:13
31:28
31:53
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
29:59
29:49
31:17
28:17
28:57
29:20
29:37
30:13
30:33
30:56
31:41
31:53
28:00
29:00
30:00
31:00
32:00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355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,196.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A1.88E4
A7.57E3
A3.73E3
A5.12E3
A7.04E3
A4.48E3
A3.54E3
A995.55
A5.87E3
A3.64E3
A2.80E3
A2.87E3
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:38
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,152.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A5.27E4
A1.15E4
A7.84E3
A3.52E3
A5.80E3
A2.97E3
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:35
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,140.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A8.65E5
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:37
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A5.84E5
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
29:22
29:40
29:55
30:10
30:21
30:32
30:50
31:13
31:28
31:47
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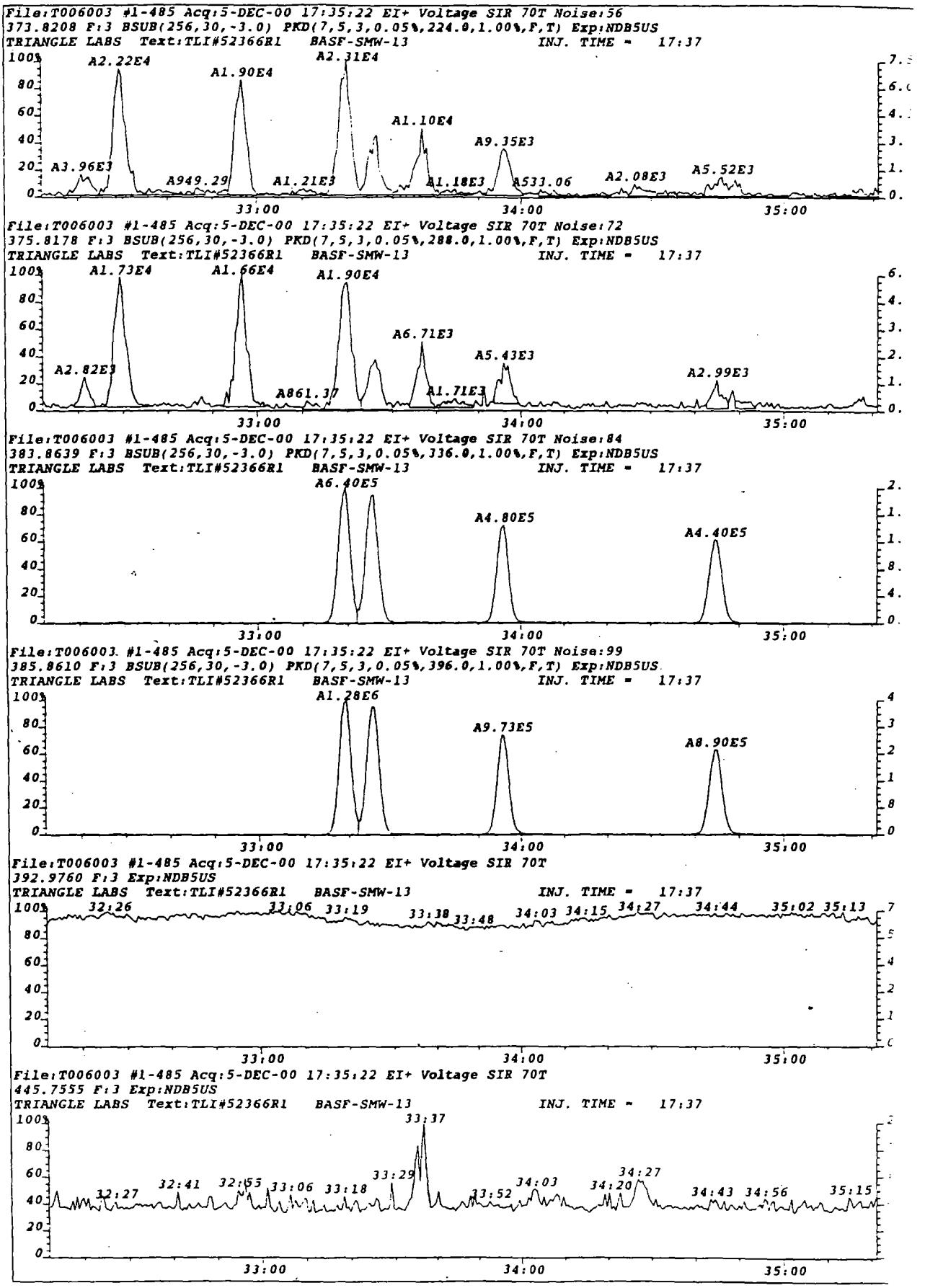
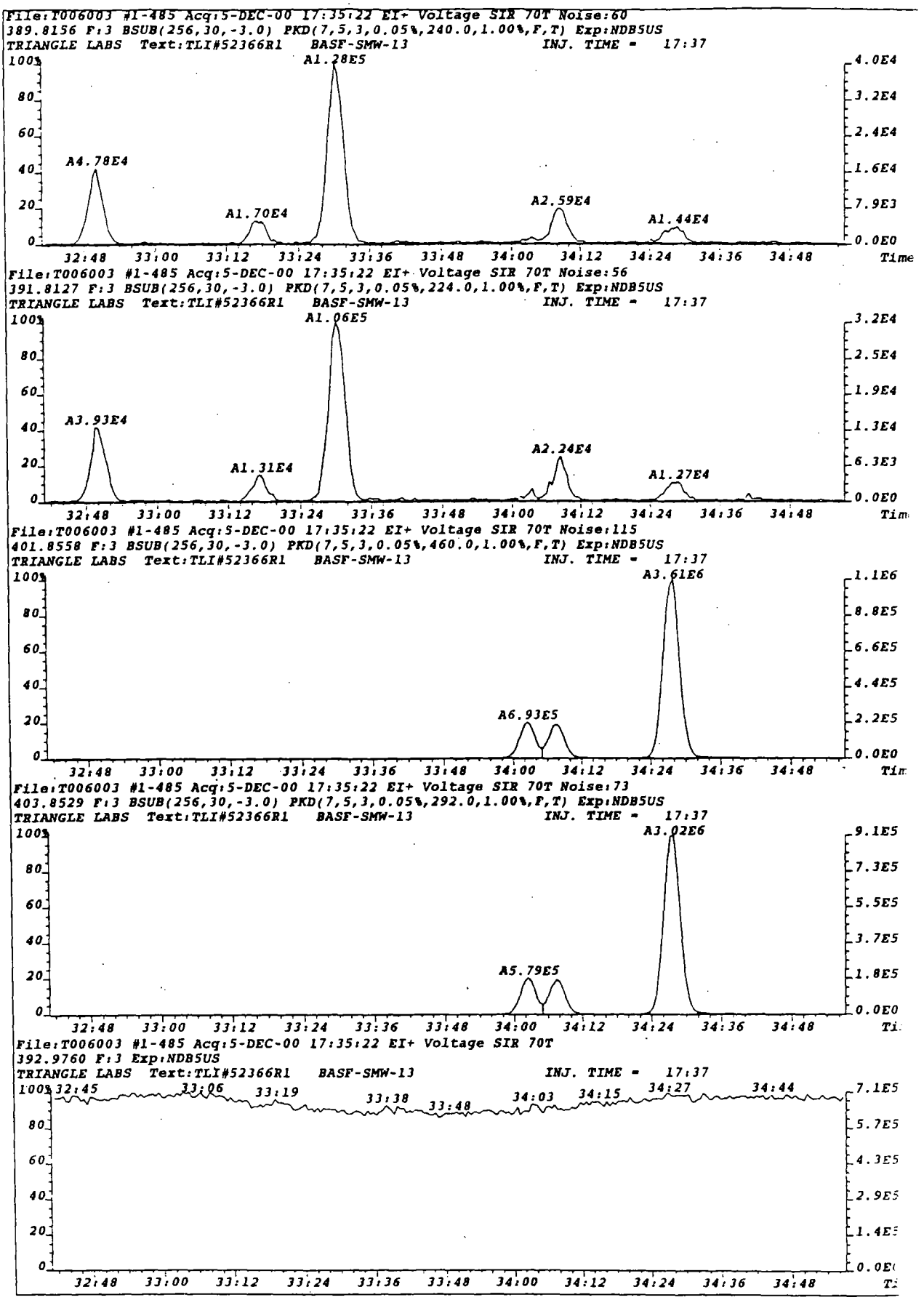
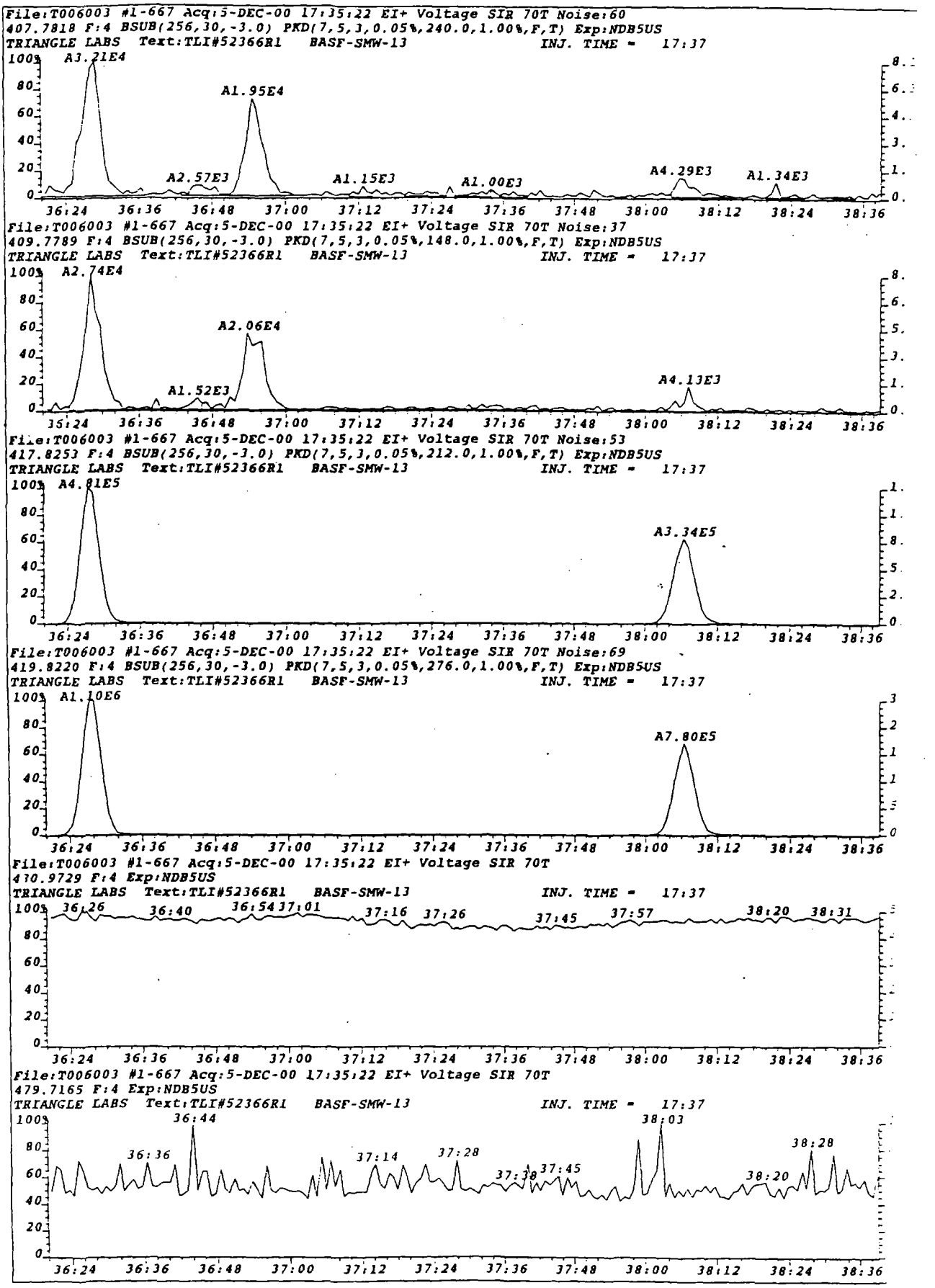
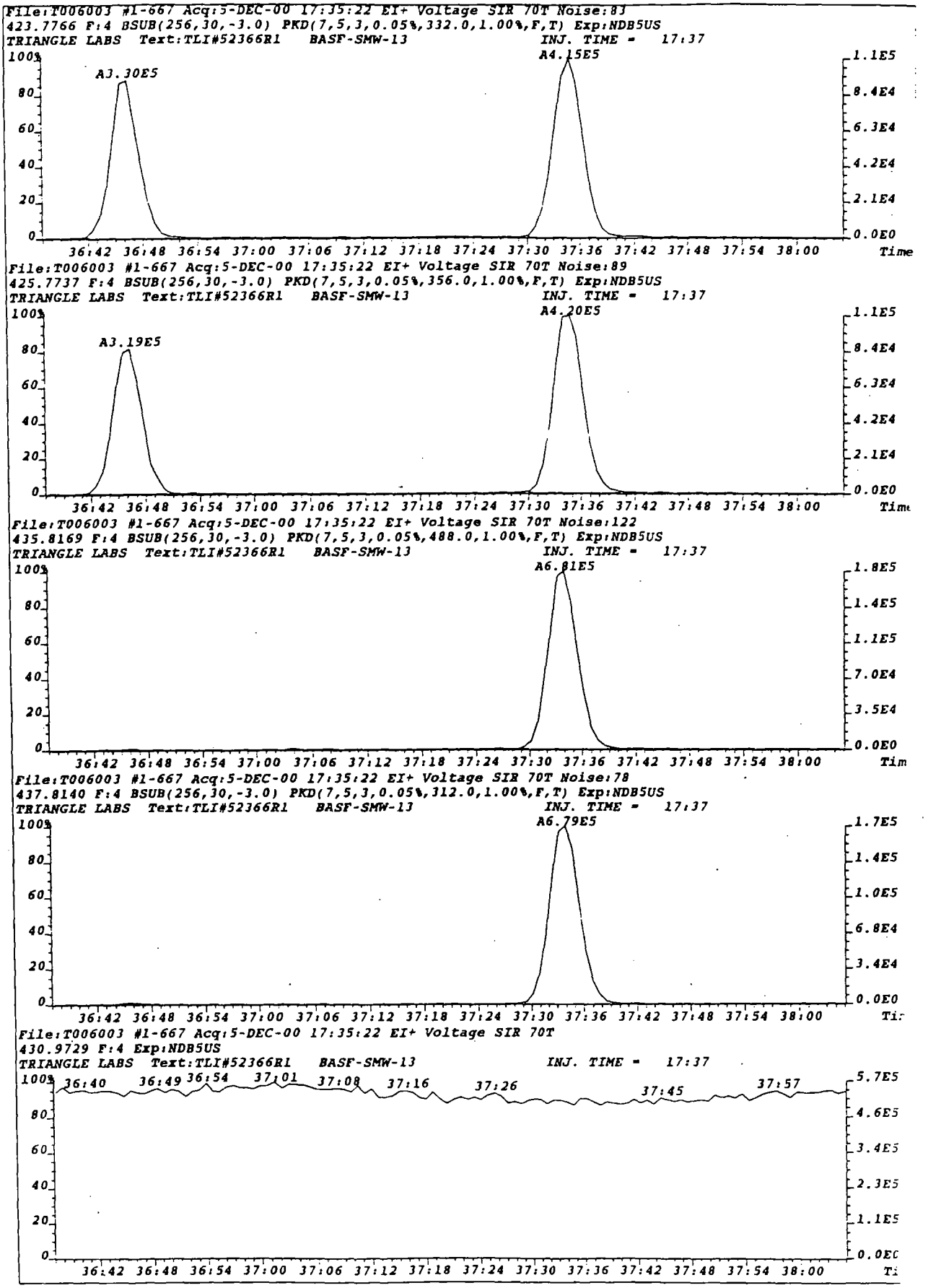
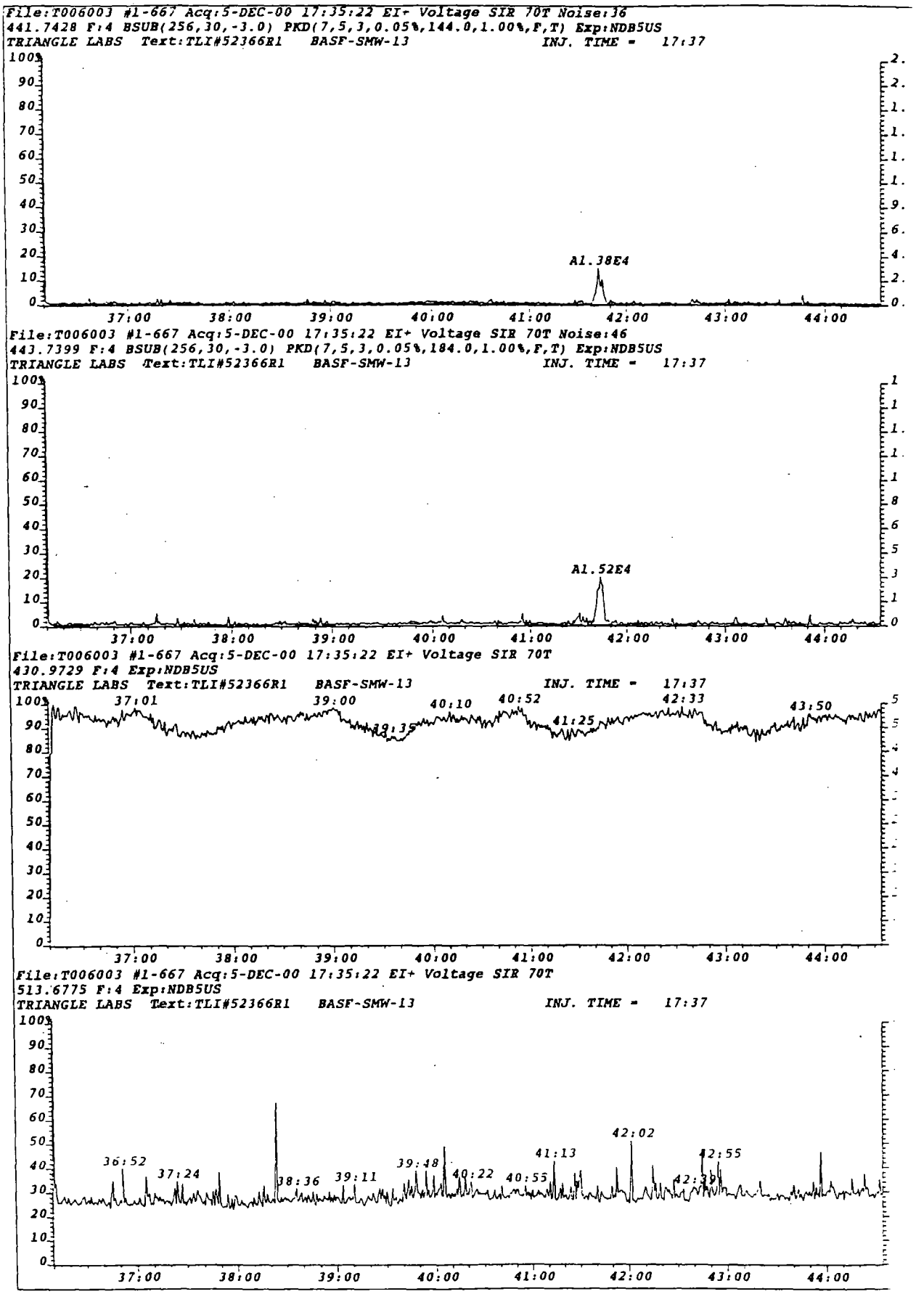

File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:56
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,224.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A2.22E4
A1.90E4
A2.31E4
A1.10E4
A9.35E3
A3.96E3
A949.29
A1.21E3
A1.18E3
A533.06
A2.08E3
A5.52E3
File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:72
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,288.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A1.73E4
A1.66E4
A1.90E4
A6.71E3
A5.43E3
A2.82E3
A861.37
A1.71E3
A2.99E3
File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:84
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,336.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A6.40E5
A4.80E5
A4.40E5
File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:99
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,396.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A1.28E6
A9.73E5
A8.90E5
File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
33:37
33:00
34:00
35:00


File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:60
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,240.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A1.28E5
A4.78E4
A1.70E4
A2.59E4
A1.44E4
File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:56
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,224.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A1.06E5
A3.93E4
A1.31E4
A2.24E4
A1.27E4
File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:115
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,460.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A3.61E6
A6.93E5
File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:73
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,292.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A3.02E6
A5.79E5
File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37


File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:60
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,240.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A3.21E4
A1.95E4
A2.57E3
A1.15E3
A1.00E3
A4.29E3
A1.34E3
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:37
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A2.74E4
A2.06E4
A1.52E3
A4.13E3
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:53
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A4.81E5
A3.34E5
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:69
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A1.10E6
A7.80E5
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
410.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
36:24 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36


File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:83
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,332.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A3.30E5
A4.15E5
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:89
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,356.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A3.19E5
A4.20E5
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:122
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,488.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A6.81E5
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:78
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,312.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A6.79E5
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00


File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:36
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,144.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A1.38E4
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:46
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,184.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A1.52E4
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
37:01
39:00
40:10
40:52
42:33
43:50
41:25
39:35
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
36:52
37:24
38:36
39:11
39:48
40:22
40:55
41:13
42:02
42:55
42:39
37:00
38:00
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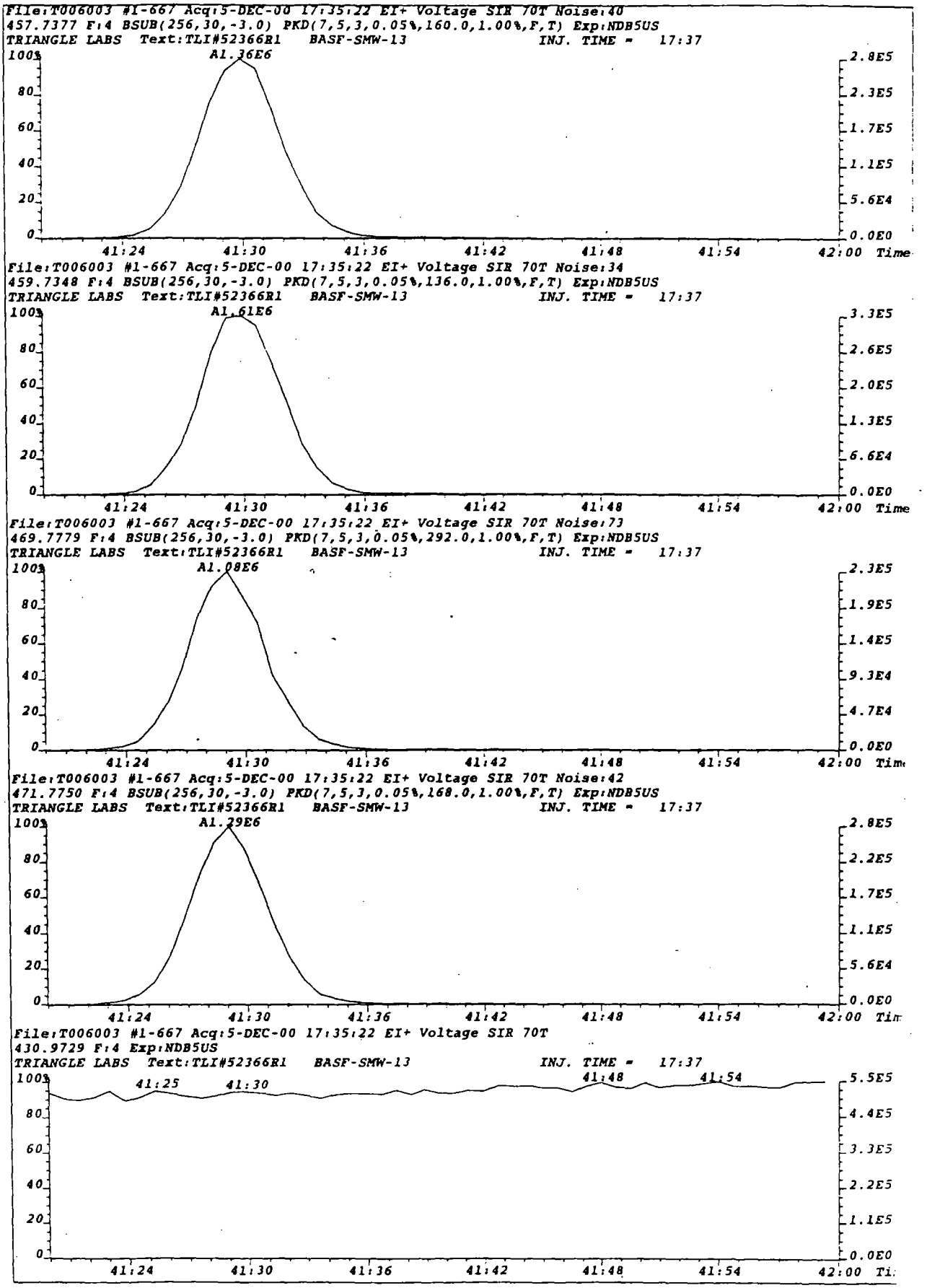
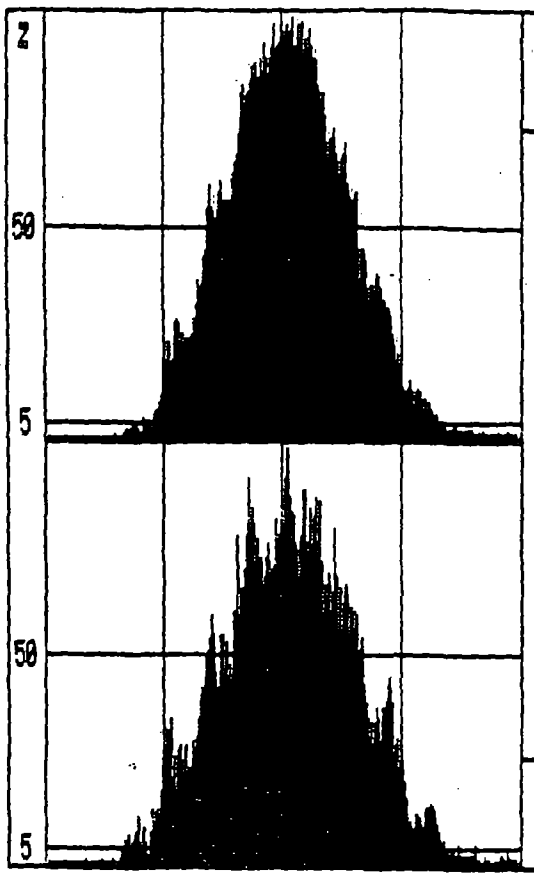
41:00
42:00
43:00
44:00


File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:40
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A1.36E6
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:34
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,136.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A1.61E6
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:73
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,292.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A1.08E6
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T Noise:42
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,168.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
A1.29E6
File:T006003 #1-667 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37
41:24 41:30 41:36 41:42 41:48 41:54 42:00

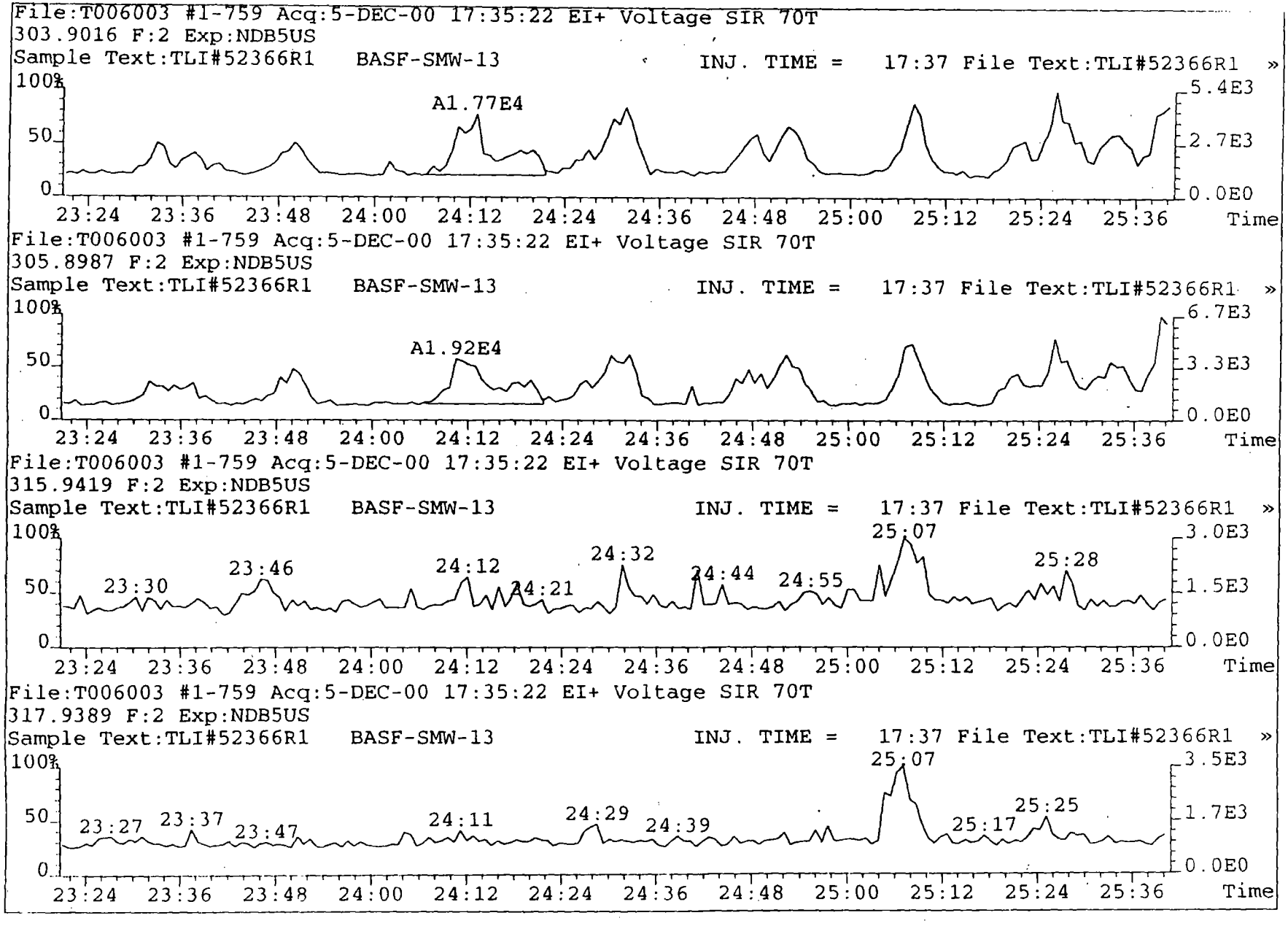


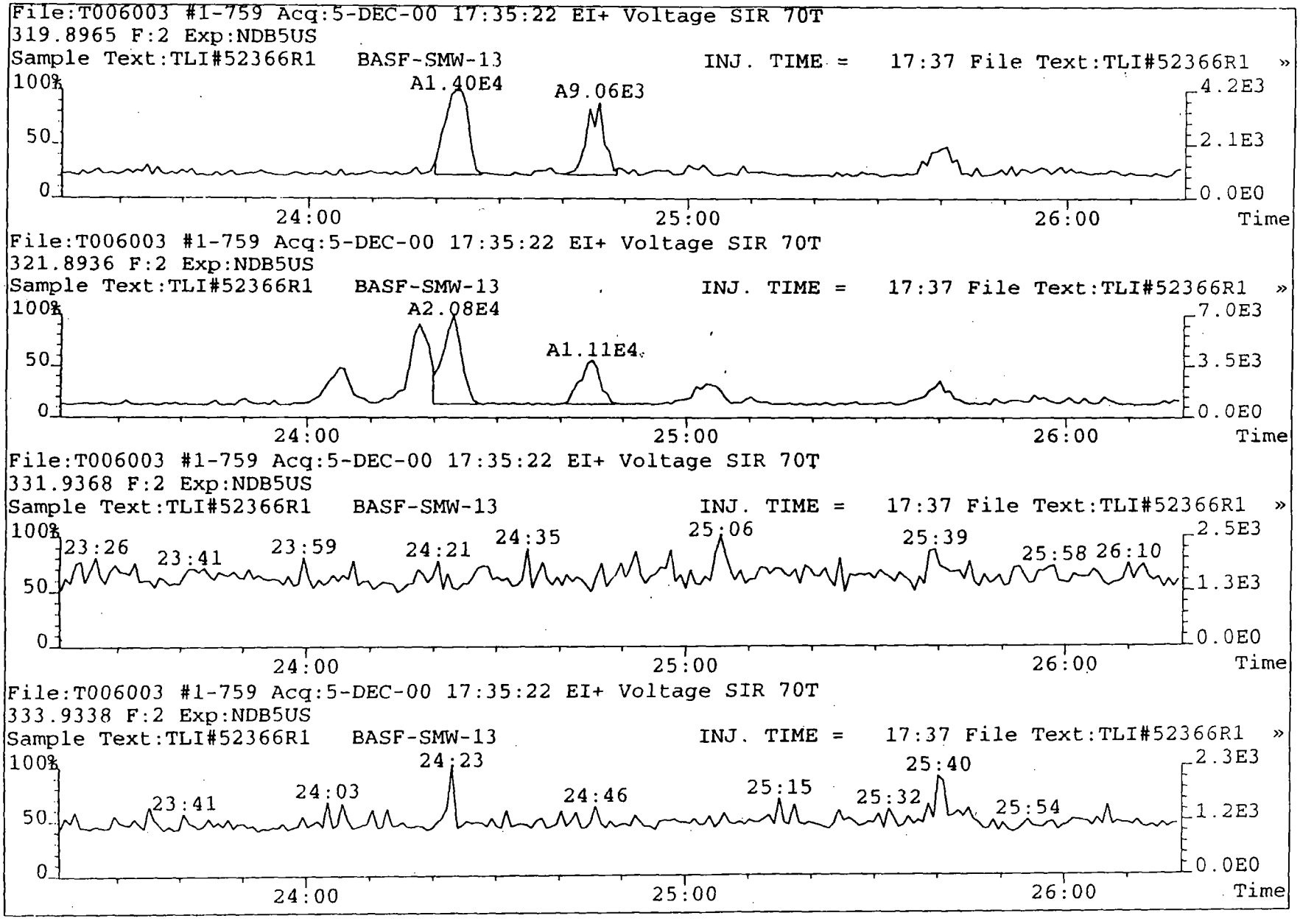
Channel I 330.9792 Peak top
Height .68 volts Span 200 ppm

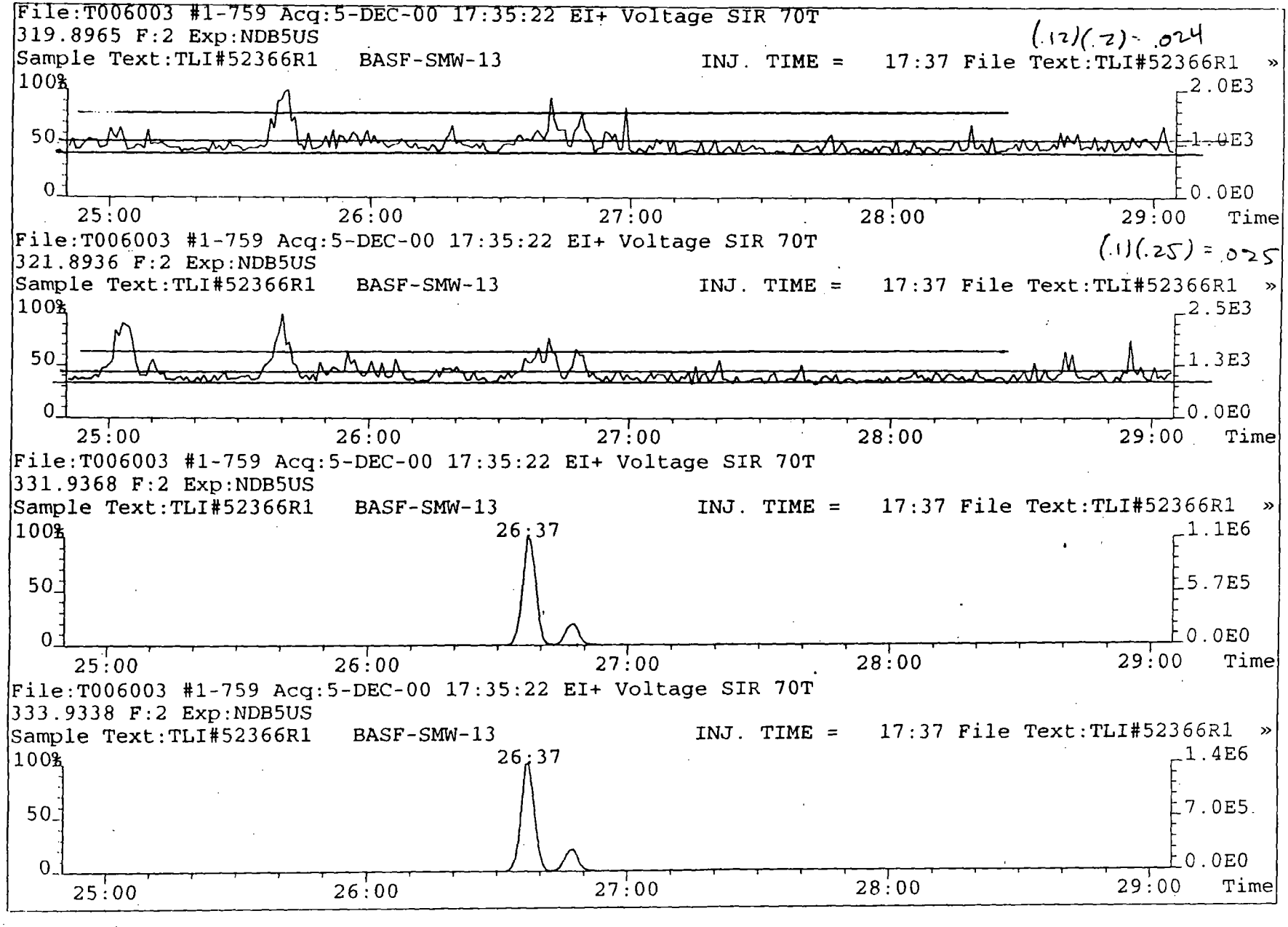
System file name	NDBSUS
Data file name	A:TD05003
Resolution	10000
Group number	2
Ionization mode	EI+
Switching	VOLTAGE
Ref. masses	292.9825, 416.9760

A	293	J	331	S	368
B	304	K	332	T	370
C	306	L	334	U	376
D	316	M	340	V	410
E	318	N	342		
F	320	O	352		
G	322	P	354		
H	328	Q	356		
I	331	R	358		

Ref. mass 416.9760 Peak top
Height .13 volts Span 200 ppm


File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
303.9016 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
A1.77E4
5.4E3
2.7E3
0.0E0
23:24 23:36 23:48 24:00 24:12 24:24 24:36 24:48 25:00 25:12 25:24 25:36 Time
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
305.8987 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
A1.92E4
6.7E3
3.3E3
0.0E0
23:24 23:36 23:48 24:00 24:12 24:24 24:36 24:48 25:00 25:12 25:24 25:36 Time
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
315.9419 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
23:30
23:46
24:12
24:21
24:32
24:44
24:55
25:07
25:28
3.0E3
1.5E3
0.0E0
23:24 23:36 23:48 24:00 24:12 24:24 24:36 24:48 25:00 25:12 25:24 25:36 Time
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
317.9389 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
23:27
23:37
23:47
24:11
24:29
24:39
25:07
25:17
25:25
3.5E3
1.7E3
0.0E0
23:24 23:36 23:48 24:00 24:12 24:24 24:36 24:48 25:00 25:12 25:24 25:36 Time


File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
319.8965 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
A1.40E4
A9.06E3
4.2E3
2.1E3
0.0E0
24:00
25:00
26:00
Time
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
321.8936 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
A2.08E4
A1.11E4
7.0E3
3.5E3
0.0E0
24:00
25:00
26:00
Time
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
331.9368 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
23:26
23:41
23:59
24:21
24:35
25:06
25:39
25:58
26:10
2.5E3
1.3E3
0.0E0
24:00
25:00
26:00
Time
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
333.9338 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
23:41
24:03
24:23
24:46
25:15
25:32
25:40
25:54
2.3E3
1.2E3
0.0E0
24:00
25:00
26:00
Time

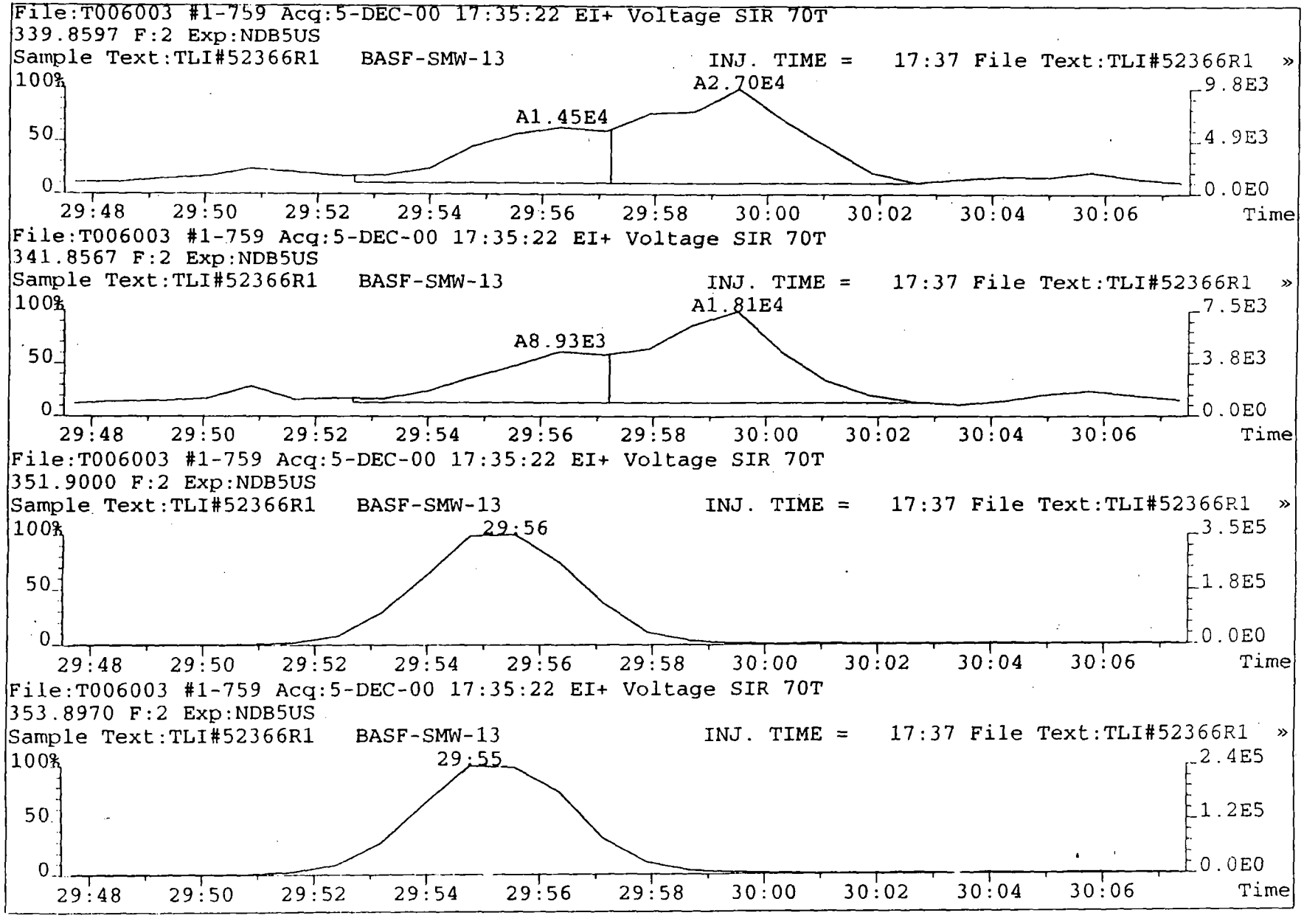


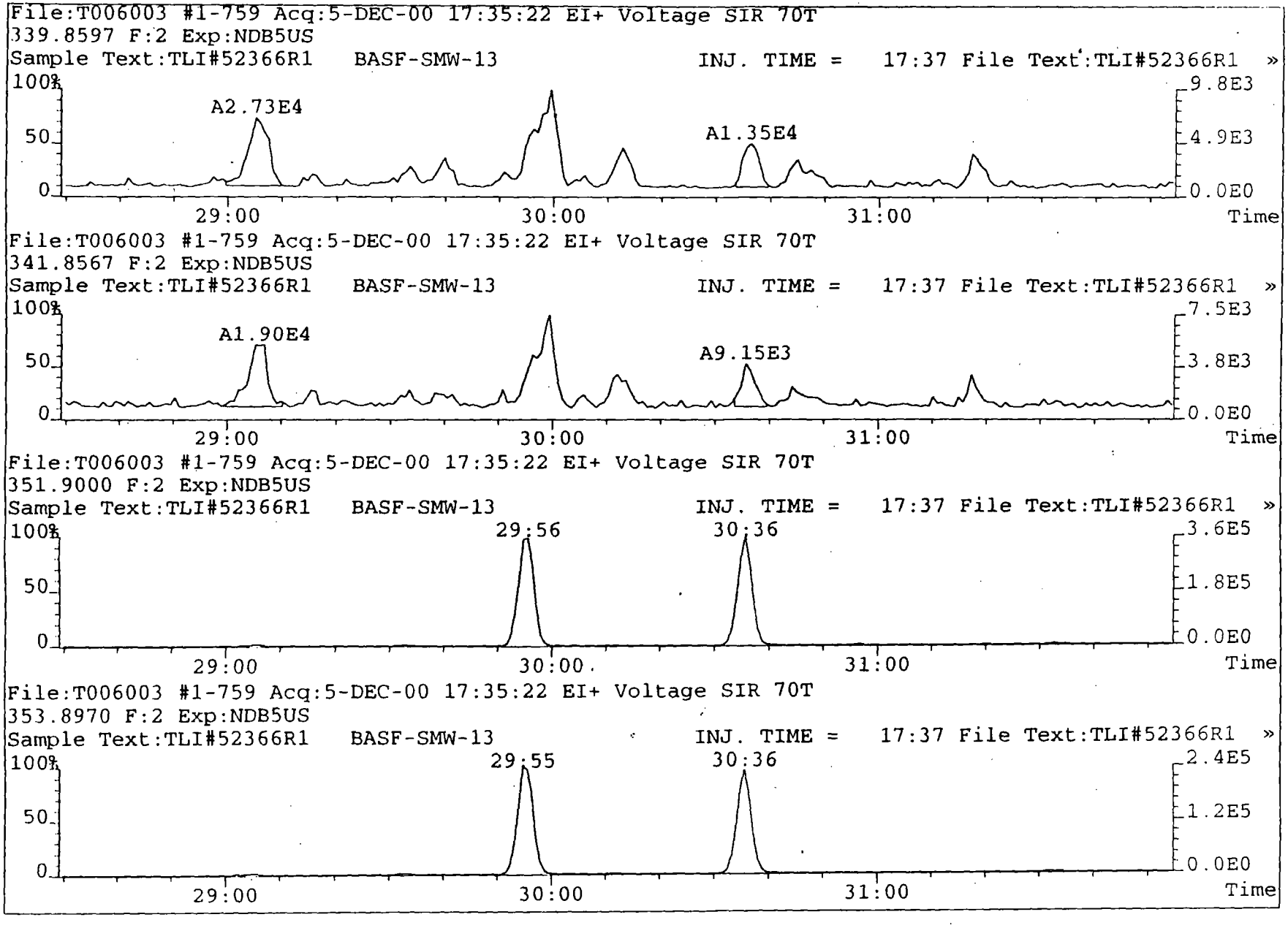
(.12)(.2) = .024

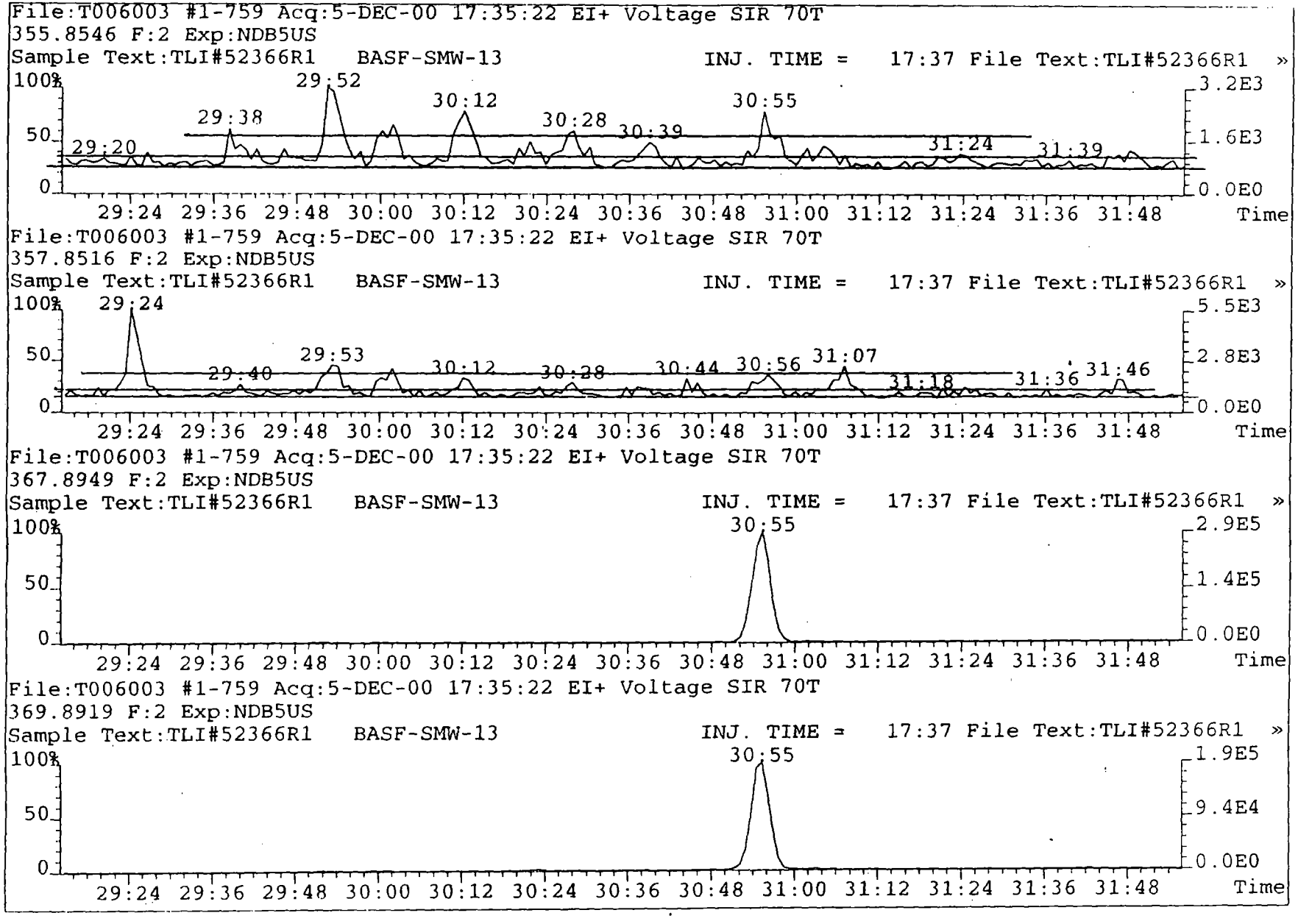
(.1)(.25) = .025

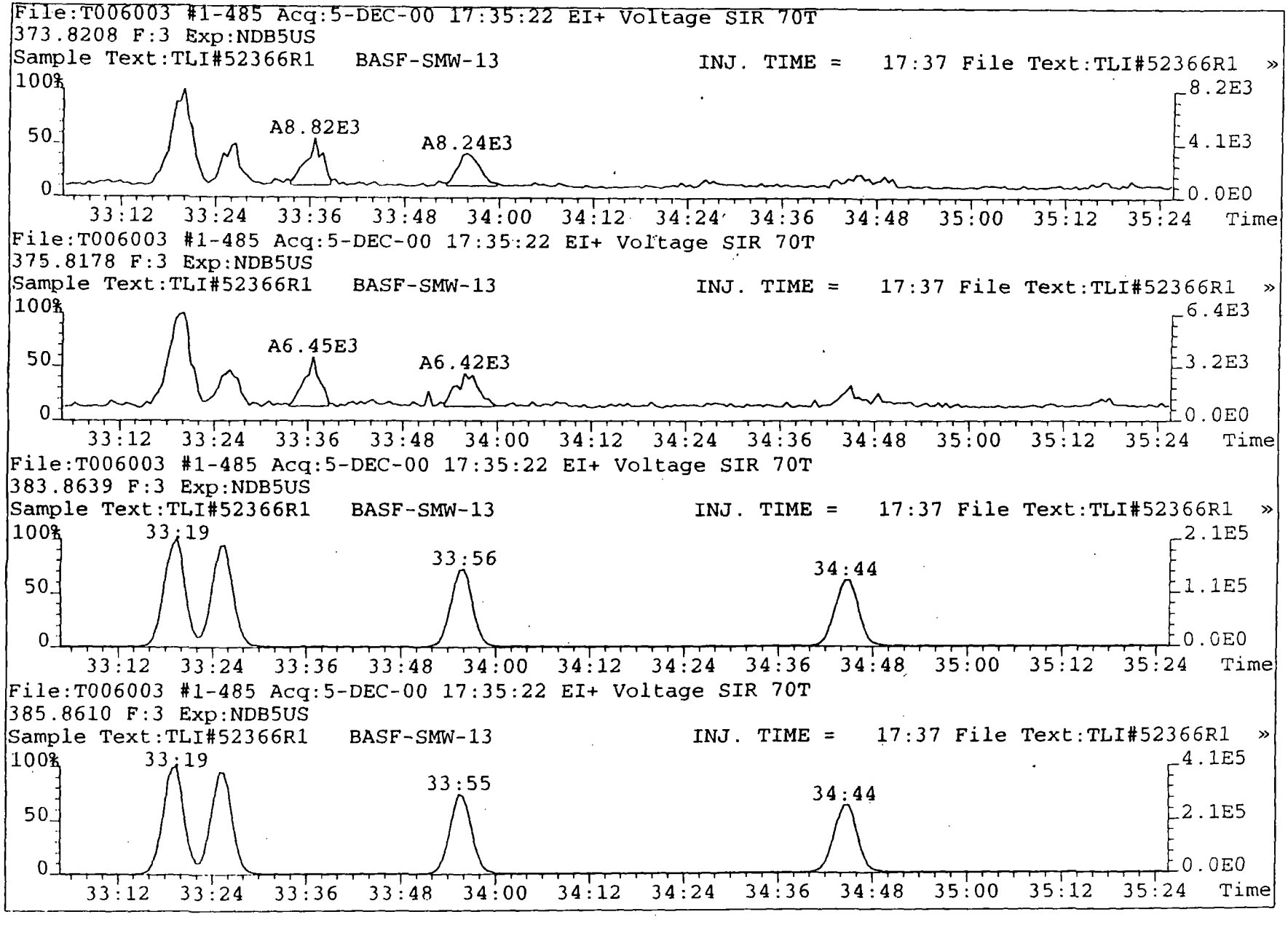
.024
.025
.049

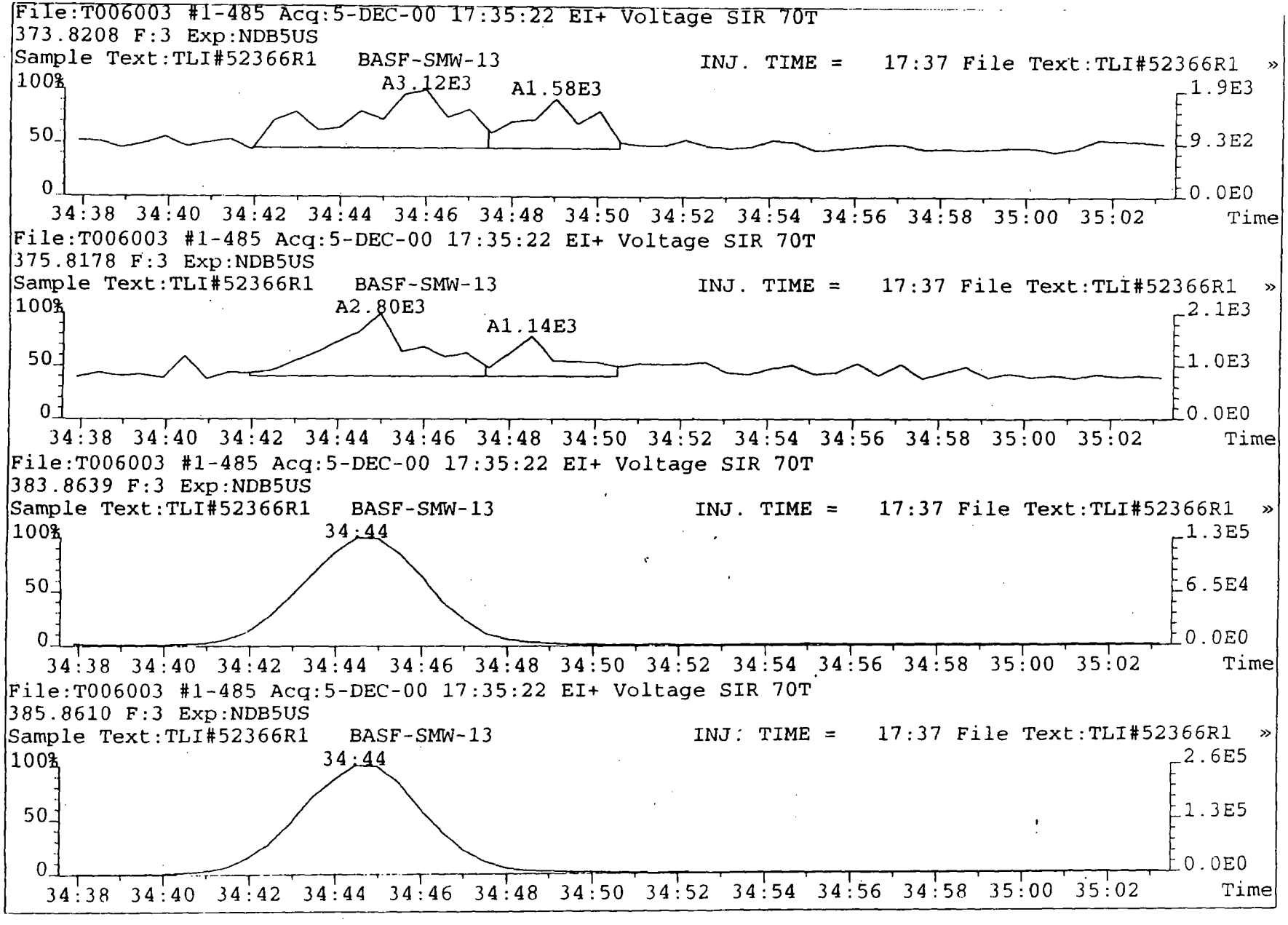
VCH
12/13/00

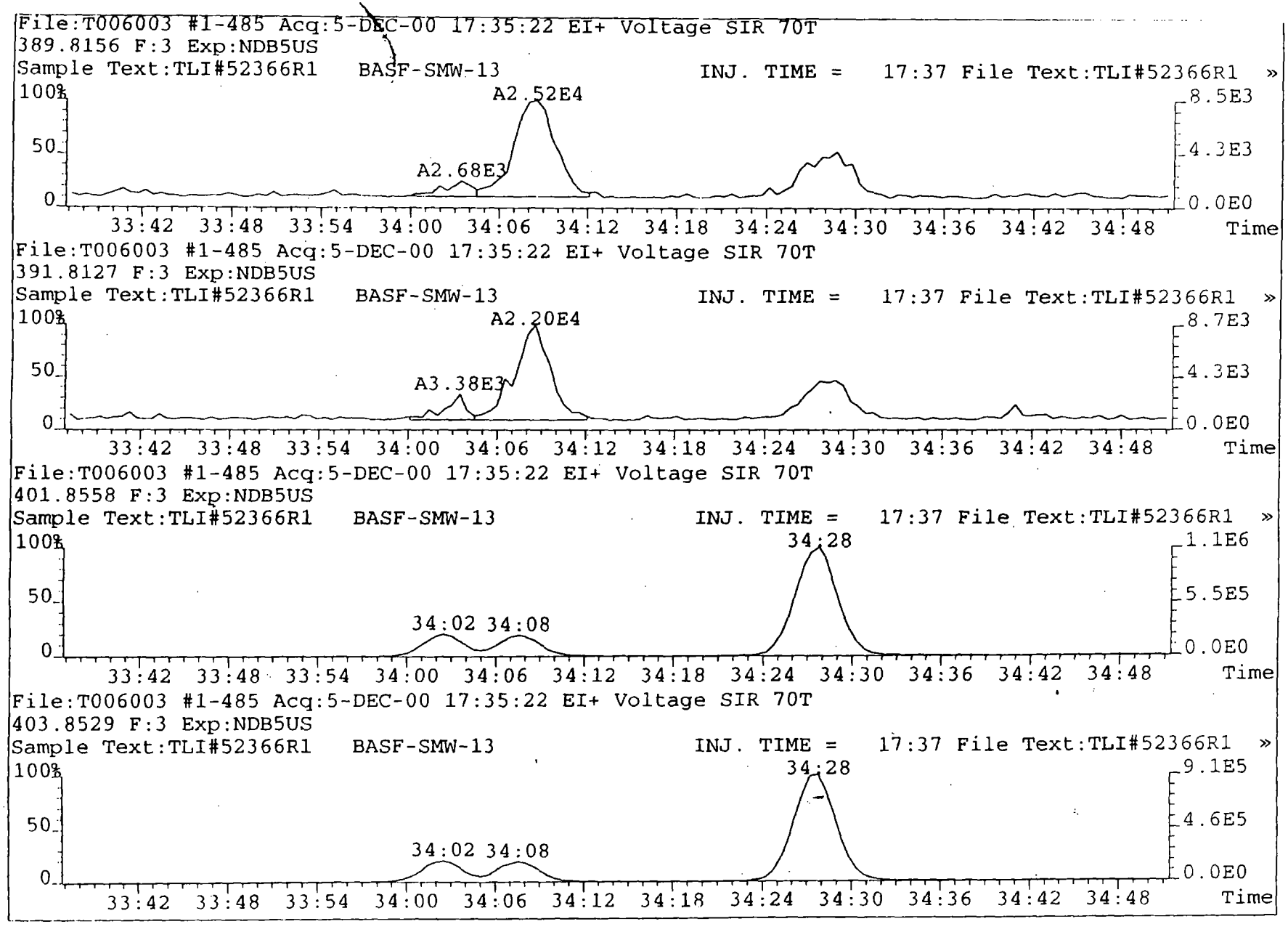

File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
339.8597 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
A1.45E4
A2.70E4
9.8E3
4.9E3
0.0E0
29:48 29:50 29:52 29:54 29:56 29:58 30:00 30:02 30:04 30:06 Time
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
341.8567 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
A8.93E3
A1.81E4
7.5E3
3.8E3
0.0E0
29:48 29:50 29:52 29:54 29:56 29:58 30:00 30:02 30:04 30:06 Time
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
351.9000 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
29:56
3.5E5
1.8E5
0.0E0
29:48 29:50 29:52 29:54 29:56 29:58 30:00 30:02 30:04 30:06 Time
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
353.8970 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
29:55
2.4E5
1.2E5
0.0E0
29:48 29:50 29:52 29:54 29:56 29:58 30:00 30:02 30:04 30:06 Time

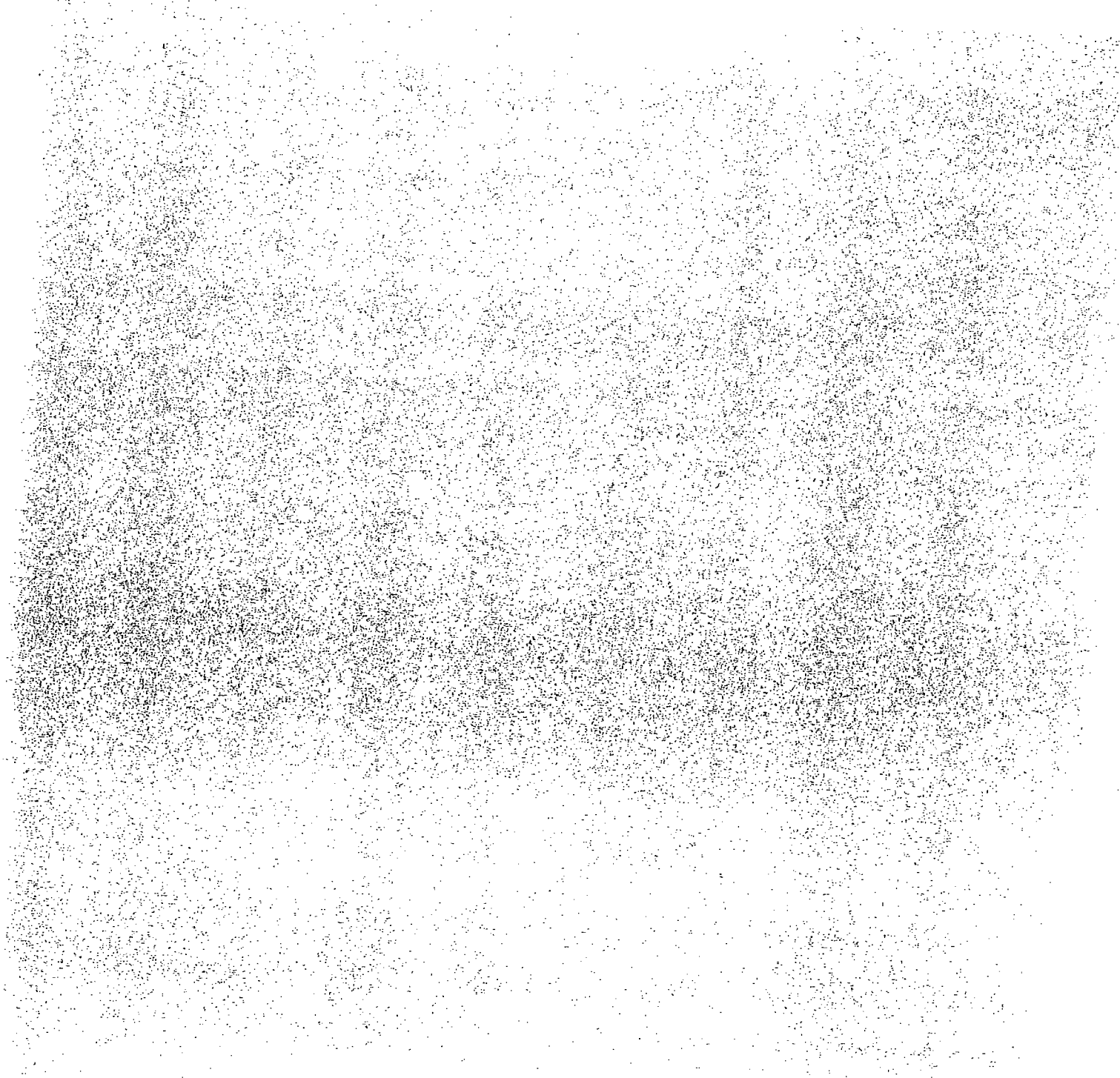

File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
339.8597 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
A2.73E4
A1.35E4
9.8E3
4.9E3
0.0E0
29:00
30:00
31:00
Time
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
341.8567 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
A1.90E4
A9.15E3
7.5E3
3.8E3
0.0E0
29:00
30:00
31:00
Time
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
351.9000 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
29:56
30:36
3.6E5
1.8E5
0.0E0
29:00
30:00
31:00
Time
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
353.8970 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
29:55
30:36
2.4E5
1.2E5
0.0E0
29:00
30:00
31:00
Time


File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
355.8546 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
29:20
29:38
29:52
30:12
30:28
30:39
30:55
31:24
31:39
3.2E3
1.6E3
0.0E0
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
Time
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
357.8516 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
29:24
29:40
29:53
30:12
30:28
30:44
30:56
31:07
31:18
31:36
31:46
5.5E3
2.8E3
0.0E0
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
Time
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
367.8949 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
30:55
2.9E5
1.4E5
0.0E0
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
Time
File:T006003 #1-759 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
369.8919 F:2 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
30:55
1.9E5
9.4E4
0.0E0
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
Time


File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
373.8208 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
A8.82E3
A8.24E3
8.2E3
4.1E3
0.0E0
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:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
375.8178 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
A6.45E3
A6.42E3
6.4E3
3.2E3
0.0E0
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:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
383.8639 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
33:19
33:56
34:44
2.1E5
1.1E5
0.0E0
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:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
385.8610 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
100%
50
0
33:19
33:55
34:44
4.1E5
2.1E5
0.0E0
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:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
373.8208 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
A3.12E3
A1.58E3
1.9E3
9.3E2
0.0E0
34:38 34:40 34:42 34:44 34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 35:02 Time
File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
375.8178 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
A2.80E3
A1.14E3
2.1E3
1.0E3
0.0E0
34:38 34:40 34:42 34:44 34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 35:02 Time
File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
383.8639 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
34:44
1.3E5
6.5E4
0.0E0
34:38 34:40 34:42 34:44 34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 35:02 Time
File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
385.8610 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
34:44
2.6E5
1.3E5
0.0E0
34:38 34:40 34:42 34:44 34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 35:02 Time


File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
389.8156 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
A2.52E4
A2.68E3
8.5E3
4.3E3
0.0E0
Time
File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
391.8127 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
A2.20E4
A3.38E3
8.7E3
4.3E3
0.0E0
Time
File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
401.8558 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
34:28
34:02 34:08
1.1E6
5.5E5
0.0E0
Time
File:T006003 #1-485 Acq:5-DEC-00 17:35:22 EI+ Voltage SIR 70T
403.8529 F:3 Exp:NDB5US
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 17:37 File Text:TLI#52366R1
34:28
34:02 34:08
9.1E5
4.6E5
0.0E0
Time
100%
50
0
33:42 33:48 33:54 34:00 34:06 34:12 34:18 34:24 34:30 34:36 34:42 34:48



TriMatrix, Inc.

TLI Project: 52366r1 Method 8290 TCDD/TCDF Analysis (DB-
Client Sample: BASF-SMW-13 Analysis File: P00

Client Project:	BASF-Malcolm Pirnie				
Sample Matrix:	WATER	Date Received:	11/17/2000	Spike File:	SPC2NF
TLI ID:	274-99-7B	Date Extracted:	12/01/2000	ICal:	PF2O230
		Date Analyzed:	12/05/2000	ConCal:	P004403
Sample Size:	1.050 L	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T005998	% Lipid:	n/a
GC Column:	DB-225	Analyst:	DFS	% Solids:	n/a

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Fla
2,3,7,8-TCDF	101			0.68	23:48	_

Internal Standard	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Fla
$^{13}C_{12}$-2,3,7,8-TCDF	269	14.1	40%-130%	0.77	23:48	V_

Recovery Standard	Ratio	RT	Fla
$^{13}C_{12}$-1,2,3,4-TCDD	0.81	22:36	_

Data Reviewer: _____ 12/13/2000

C2NF_PSR v2.03.L

Triangle Laboratories, Inc.
801 Capitola Drive • Durham, North Carolina 27713
Phone: (919) 544-5729 • Fax: (919) 544-5491

Printed: 17:39 12/1

Initial ....Date...

Data Review By: JCH 12/13/00

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.

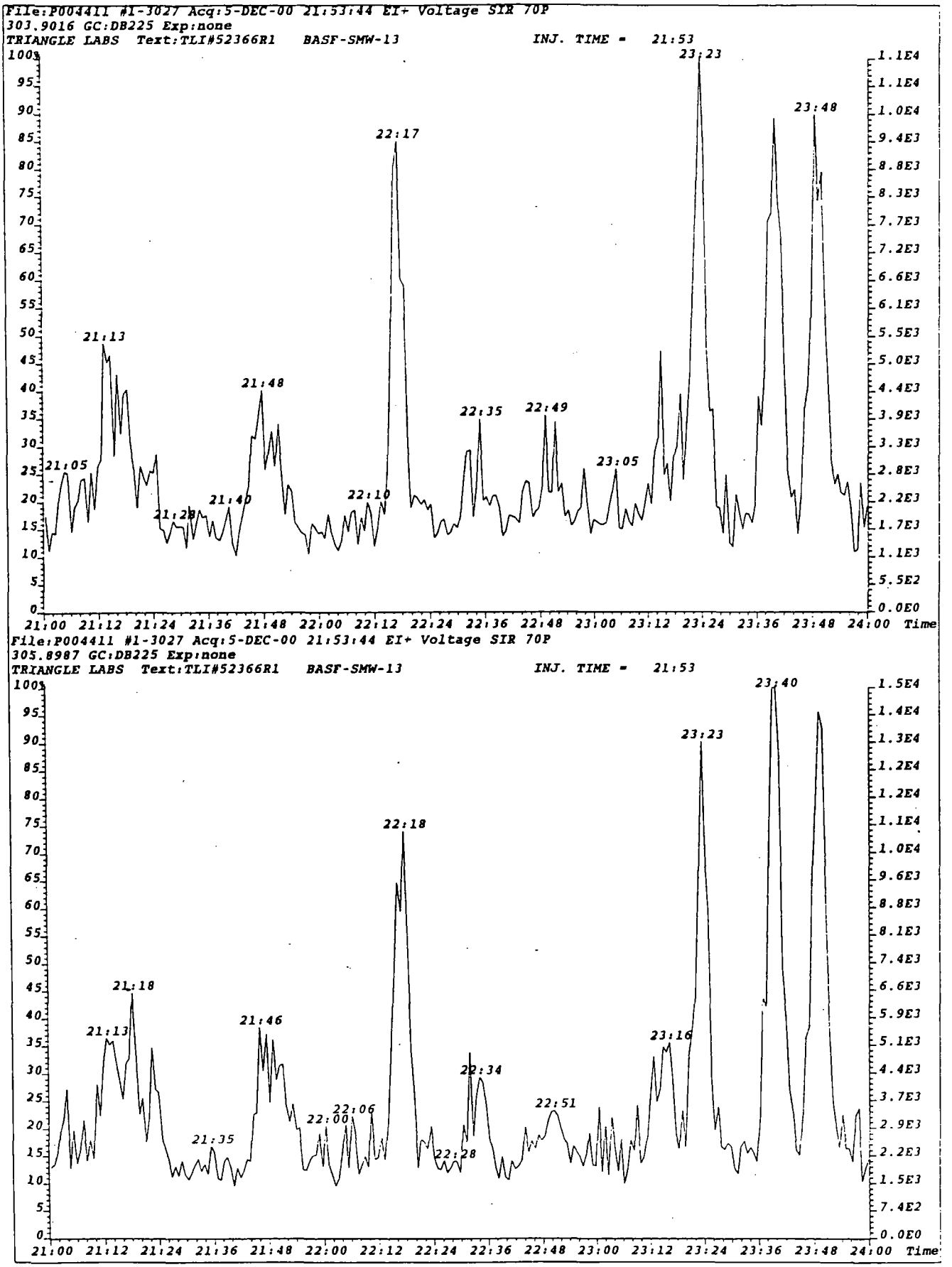
Page No. 1 Listing of P004411B.dbf
12/13/2000 Matched GC Peaks / Ratio / Ret. Time

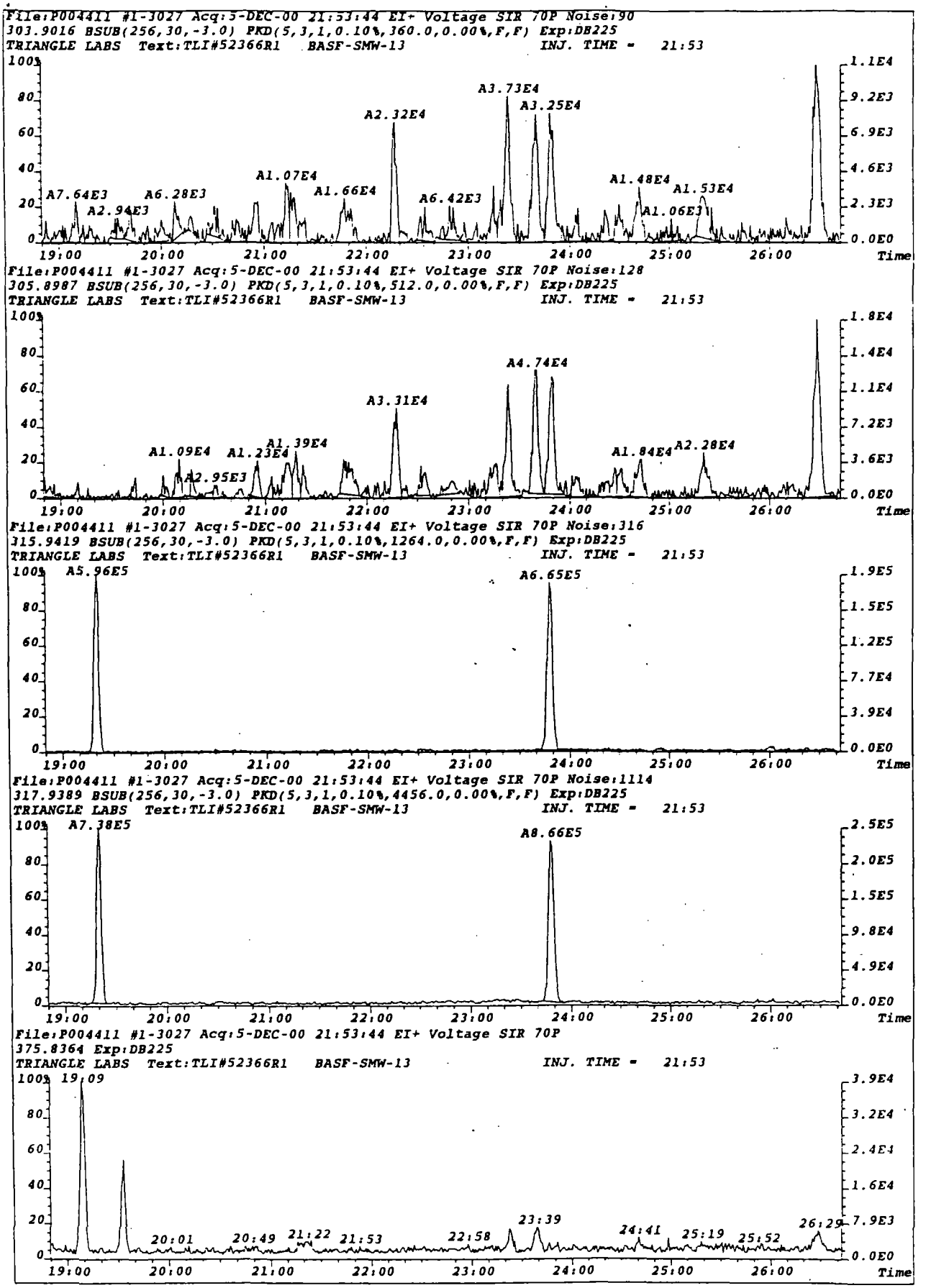
Compound/ M_I....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
TCDF					0.65-0.89					0.791-1.108			
304-306	DC	NL			Height		0.17	0.07	0.10				
				18:52	RO	0.45	0.48	0.21	0.47	0.793			J
	DC	SN		19:02	RO	5.14	0.12			0.800			
	DC	SN		19:15	RO	2.00	0.14			0.809			
	DC	SN		19:33	RO	2.38	0.14			0.821			
				19:42	RO	1.53	0.67	0.58	0.38	0.828			J
				20:00	RO	1.44	0.69	0.56	0.39	0.840			J
				20:08	RO	0.58	1.45	0.63	1.09	0.846			
	DC	SN		20:17	RO	0.40	0.51			0.852			
	DC	SN		20:27	RO	0.39	0.25			0.859			
				20:32	RO	1.73	0.53	0.52	0.30	0.863			J
	DC	SN		20:36	RO	2.17	0.11			0.866			
				20:57	RO	0.91	2.18	1.12	1.23	0.880			
				21:05		0.77	0.76	0.33	0.43	0.886			
				21:10	RO	1.43	0.50	0.40	0.28	0.889			J
				21:13	RO	0.58	2.46	1.07	1.85	0.891			
				21:16		0.79	2.49	1.10	1.39	0.894			
				21:25		0.70	1.46	0.60	0.86	0.900			
				21:48		0.75	3.88	1.66	2.22	0.916			
	DC	SN		22:08	RO	0.12	0.09			0.930			
				22:17		0.70	5.63	2.32	3.31	0.936			
	DC	SN		22:21		0.85	0.61			0.939			
				22:33	RO	0.28	0.69	0.30	1.07	0.947			J
	DC	SN		22:45	RO	1.89	0.16			0.956			
				22:49	RO	0.96	1.19	0.64	0.67	0.959			
				23:05	RO	1.17	0.42	0.28	0.24	0.970			J
	DC	SN		23:09	RO	0.54	0.32			0.973			
				23:15	RO	0.50	2.02	0.88	1.75	0.977			
				23:23	RO	0.94	7.04	3.73	3.98	0.982			
				23:40		0.78	8.43	3.69	4.74	0.994			
M				23:48		0.68	7.70	3.13	4.57	1.000	2378-TCDF	AN	
	DC	SN		23:58	RO	0.38	0.18			1.007			
				24:30		0.84	2.12	0.97	1.15	1.029			
				24:42		0.80	3.32	1.48	1.84	1.038			
	DC	SN		24:53	RO	1.00	0.12			1.046			
	DC	SN		25:01	RO	1.83	0.11			1.051			
				25:20		0.67	3.81	1.53	2.28	1.064			
	DC	SN		25:44	RO	1.28	0.51			1.081			
	DC	SN		26:01	RO	3.67	0.21			1.093			
				26:10		0.77	0.94	0.41	0.53	1.099			
	DC	SN		26:15	RO	0.21	0.25			1.103			
	DC	SN		26:19	RO	0.93	0.27			1.106			
	DC	WH		26:28		0.75	13.14			1.112			

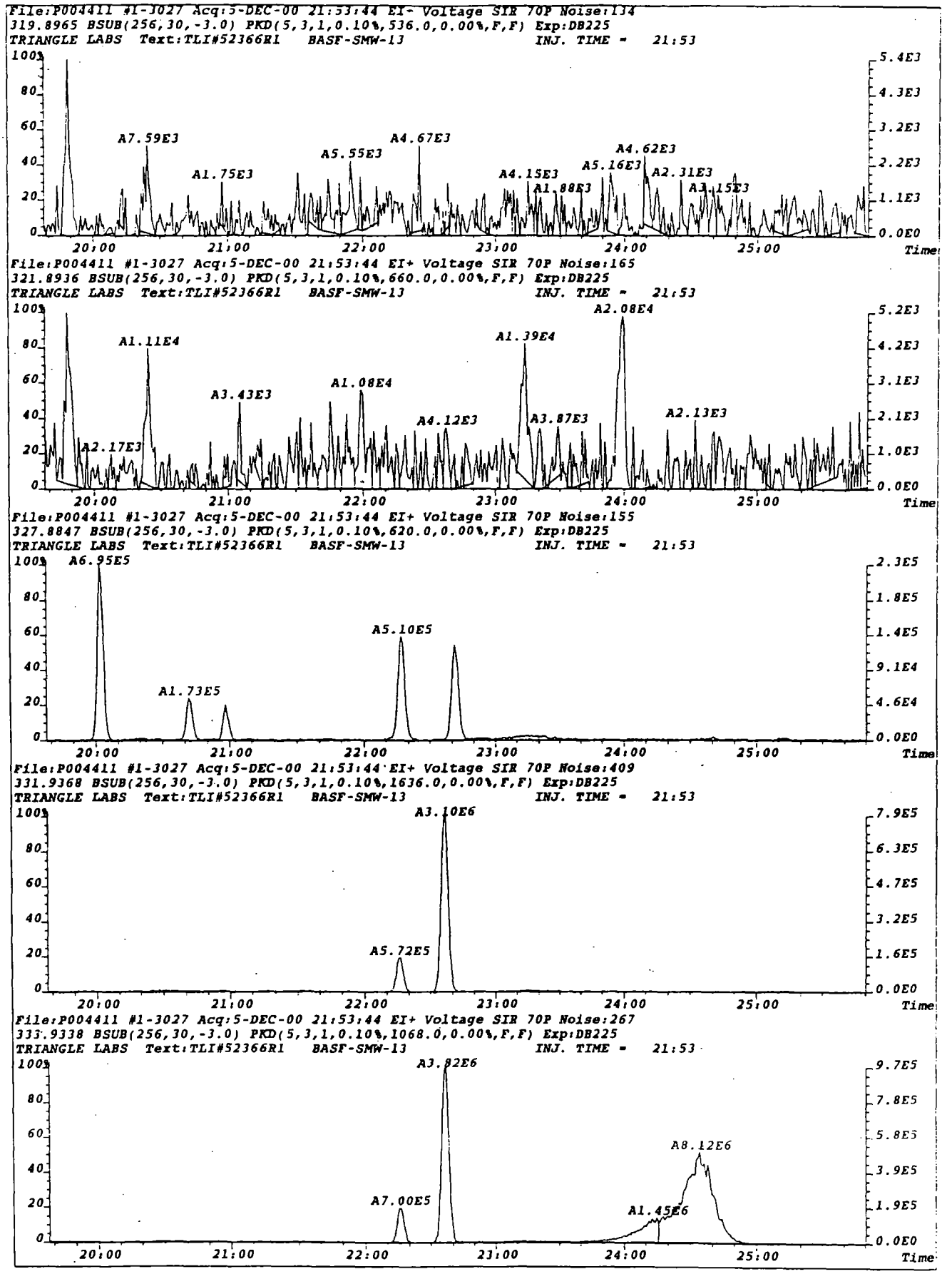
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
	DC	WH		26:38	RO	1.13	0.14			1.119			
304-306		24	Peaks				60.86						
13C12-TCDF				0.65-0.89						0.958-1.042			
316-318	DC	NL				Height	1.14	0.25	0.89				
	DC	WL		19:20		0.31	133.41			0.312			
				23:48		0.77	153.03	66.47	86.56	1.000	13C12-2378-TCDF	IS0	
						Height	40.76	18.27	22.49				
316-318		1	Peak				153.03						
---------- Above: TCDF / TCDD Follows ----------													
13C12-TCDD				0.65-0.89						0.910-1.090			
332-334	DC	NL				Height	0.54	0.33	0.21				
	DC	WL		19:38	RO	0.52	1.77			0.882			
	DC	WL		19:43	RO	0.10	0.23			0.886			
				20:28	RO	0.31	1.88	0.82	2.61	0.920			
				20:40	RO	2.15	0.85	1.03	0.48	0.929			
				20:45	RO	1.52	0.48	0.41	0.27	0.933			
				21:20	RO	3.28	0.32	0.59	0.18	0.959			
				21:28	RO	1.44	2.07	1.68	1.17	0.965			
				21:31	RO	1.48	2.34	1.96	1.32	0.967			
				21:35	RO	0.31	1.01	0.44	1.44	0.970			
				21:43	RO	2.95	0.37	0.62	0.21	0.976			
				21:50		0.74	0.47	0.20	0.27	0.981			
				22:15		0.82	127.27	57.22	70.05	1.000	13C12-2378-TCDD	IS1	
						Height	34.23	15.21	19.02				
				22:36		0.81	692.79	310.41	382.38	1.016	13C12-1234-TCDD	RS1	
				23:02	RO	0.25	0.67	0.29	1.18	1.035			
				23:17	RO	0.50	3.08	1.34	2.69	1.046			
				23:27	RO	0.37	0.85	0.37	0.99	1.054			
				23:29	RO	0.54	0.80	0.35	0.65	1.055			
	DC	WH		25:06	RO	4.14	0.25			1.123			
	DC	WH		25:26	RO	3.53	0.27			1.143			
332-334		15	Peaks				835.25						

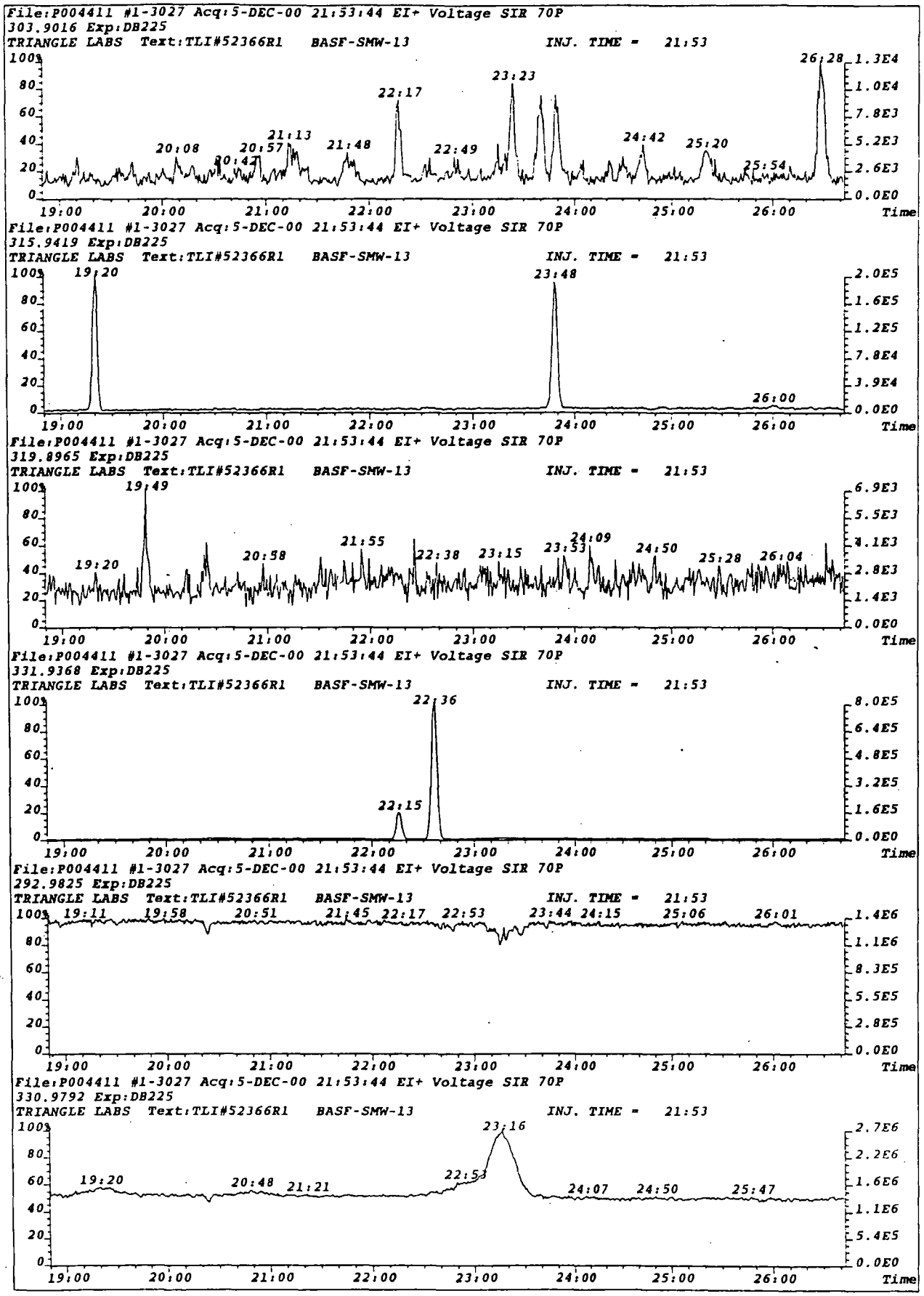
Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside 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

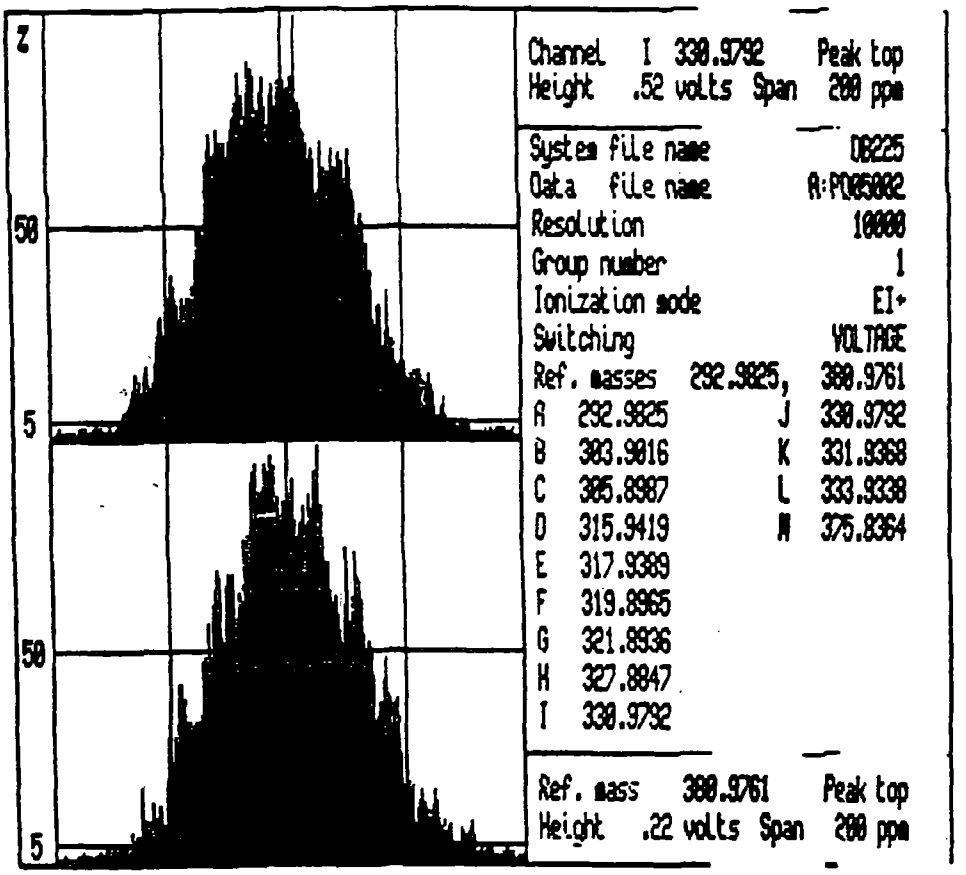
*** End of Report ***

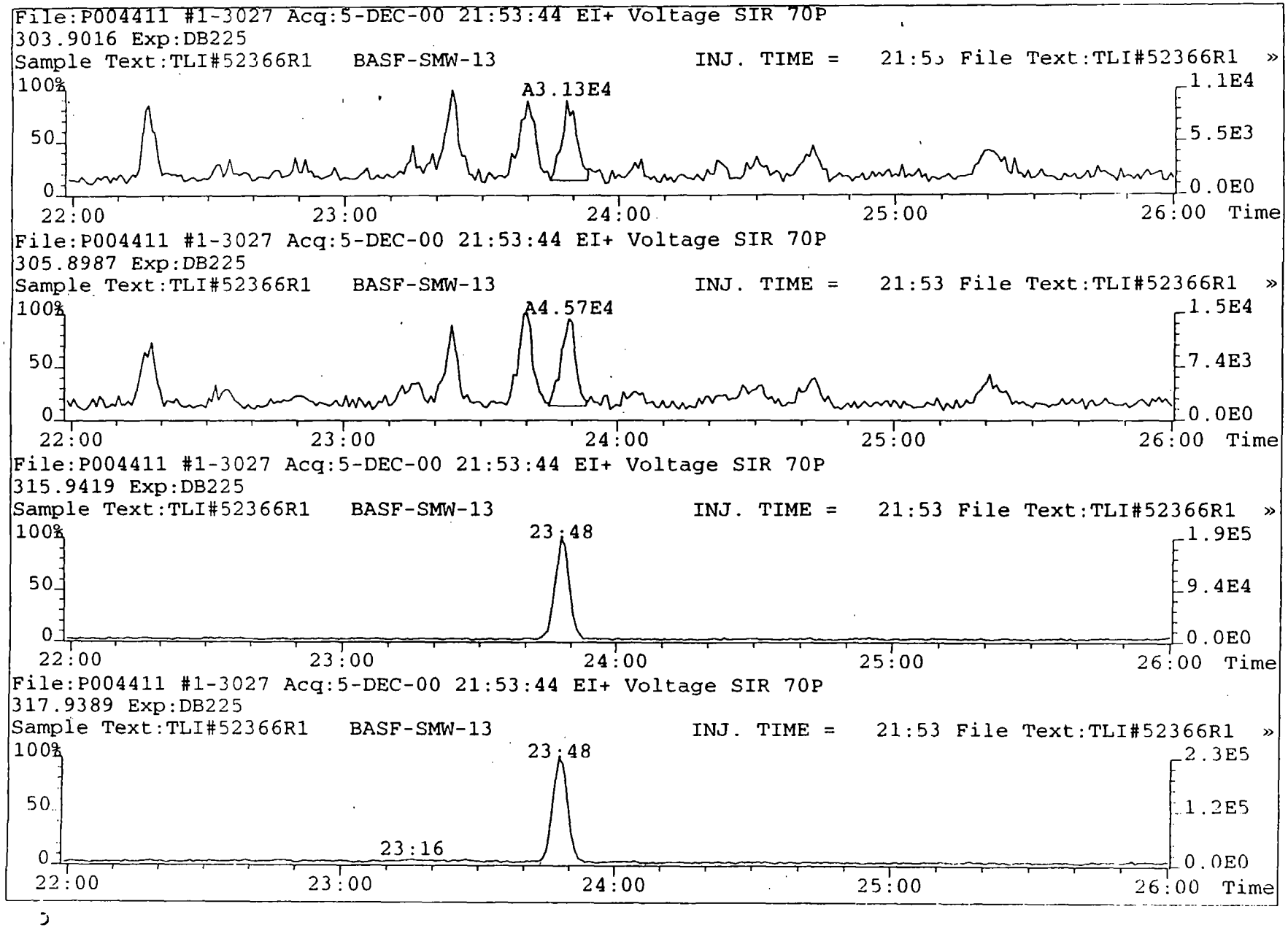

File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P
303.9016 GC:DB225 Exp:none
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13
INJ. TIME = 21:53
21:05
21:13
21:28
21:40
21:48
22:10
22:17
22:35
22:49
23:05
23:23
23:48
21:00 21:12 21:24 21:36 21:48 22:00 22:12 22:24 22:36 22:48 23:00 23:12 23:24 23:36 23:48 24:00 Time
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P
305.8987 GC:DB225 Exp:none
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13
INJ. TIME = 21:53
21:13
21:18
21:35
21:46
22:00
22:06
22:18
22:28
22:34
22:51
23:16
23:23
23:40
21:00 21:12 21:24 21:36 21:48 22:00 22:12 22:24 22:36 22:48 23:00 23:12 23:24 23:36 23:48 24:00 Time

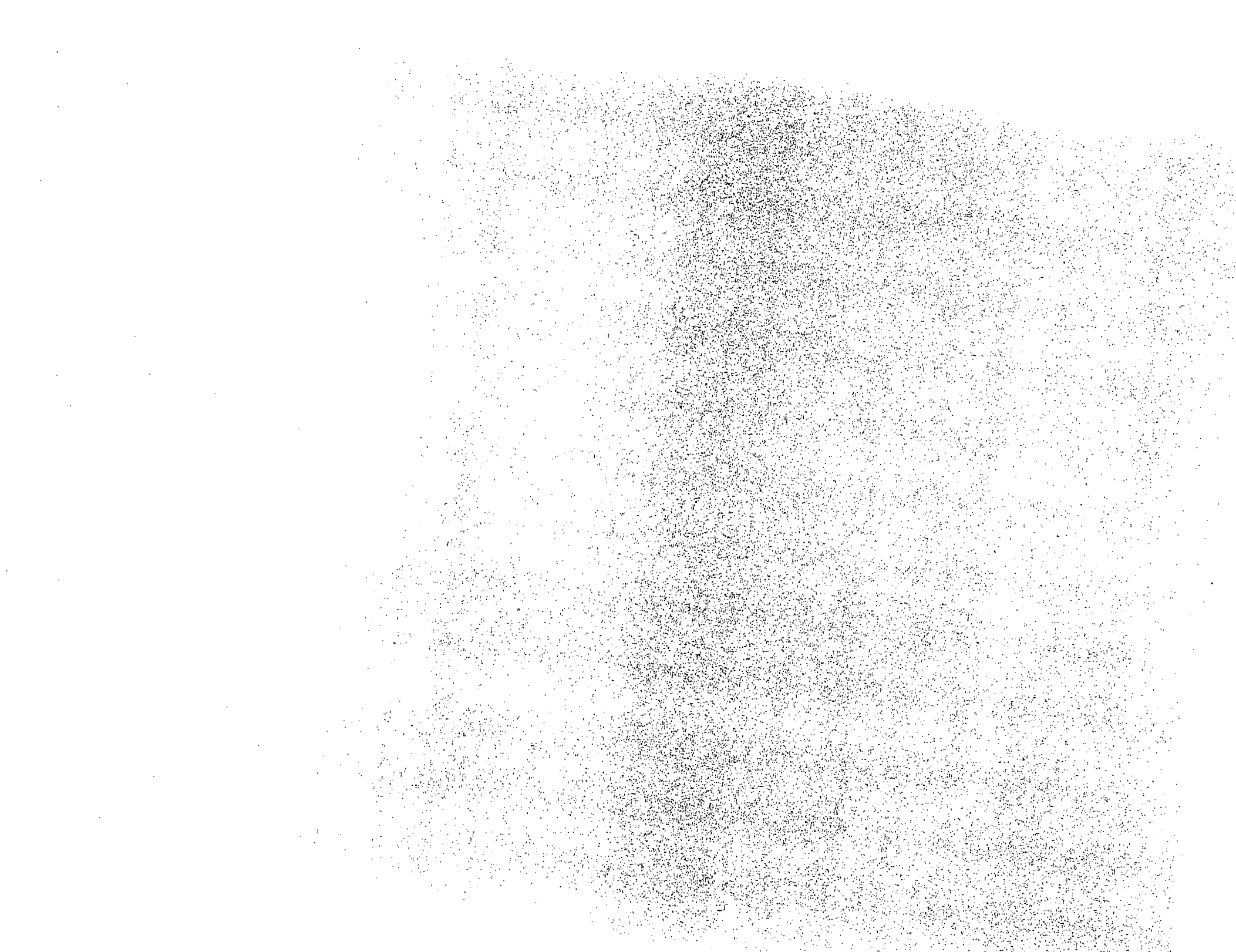

File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P Noise:90
303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,360.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME - 21:53
A7.64E3
A6.28E3
A2.94E3
A1.07E4
A1.66E4
A2.32E4
A6.42E3
A3.73E4
A3.25E4
A1.48E4
A1.53E4
A1.06E3
Time
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P Noise:128
305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,512.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME - 21:53
A1.09E4
A1.23E4
A1.39E4
A2.95E3
A3.31E4
A4.74E4
A1.84E4
A2.28E4
Time
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P Noise:316
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1264.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME - 21:53
A5.96E5
A6.65E5
Time
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P Noise:1114
317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,4456.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME - 21:53
A7.38E5
A8.66E5
Time
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P
375.8364 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME - 21:53
19:09
20:01
20:49
21:22
21:53
22:58
23:39
24:41
25:19
25:52
26:29
Time


File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI- Voltage SIR 70P Noise:134
319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,536.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME - 21:53
A7.59E3
A1.75E3
A5.55E3
A4.67E3
A4.15E3
A1.88E3
A5.16E3
A4.62E3
A2.31E3
A3.15E3
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P Noise:165
321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,660.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME - 21:53
A1.11E4
A2.17E3
A3.43E3
A1.08E4
A4.12E3
A1.39E4
A3.87E3
A2.08E4
A2.13E3
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P Noise:155
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,620.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME - 21:53
A6.95E5
A1.73E5
A5.10E5
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P Noise:409
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1636.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME - 21:53
A3.10E6
A5.72E5
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P Noise:267
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1068.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME - 21:53
A3.82E6
A8.12E6
A7.00E5
A1.45E6
20:00
21:00
22:00
23:00
24:00
25:00
Time


File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P
303.9016 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 21:53
20:08
20:42
20:57
21:13
21:48
22:17
22:49
23:23
24:42
25:20
25:54
26:28
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P
315.9419 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 21:53
19:20
23:48
26:00
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P
319.8965 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 21:53
19:20
19:49
20:58
21:55
22:38
23:15
23:53
24:09
24:50
25:28
26:04
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P
331.9368 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 21:53
22:15
22:36
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P
292.9825 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 21:53
19:11
19:58
20:51
21:45
22:17
22:53
23:44
24:15
25:06
26:01
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P
330.9792 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 21:53
19:20
20:48
21:21
22:53
23:16
24:07
24:50
25:47
19:00
20:00
21:00
22:00
23:00
24:00
25:00
26:00
Time


Z
50
5
50
5
Channel I 330.9792 Peak top
Height .52 volts Span 200 ppm
System file name 08225
Data file name A:PM05002
Resolution 10000
Group number 1
Ionization mode EI+
Switching VOLTAGE
Ref. masses 292.9825, 380.9761
A 292.9825
B 303.9816
C 305.8987
D 315.9419
E 317.9389
F 319.8965
G 321.8936
H 327.8847
I 330.9792
J 330.9792
K 331.9368
L 333.9338
M 375.8364
Ref. mass 380.9761 Peak top
Height .22 volts Span 200 ppm


File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P
303.9016 Exp:DB225
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 21:53 File Text:TLI#52366R1
100%
50
0
A3.13E4
1.1E4
5.5E3
0.0E0
22:00
23:00
24:00
25:00
26:00
Time
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P
305.8987 Exp:DB225
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 21:53 File Text:TLI#52366R1
100%
50
0
A4.57E4
1.5E4
7.4E3
0.0E0
22:00
23:00
24:00
25:00
26:00
Time
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P
315.9419 Exp:DB225
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 21:53 File Text:TLI#52366R1
100%
50
0
23:48
1.9E5
9.4E4
0.0E0
22:00
23:00
24:00
25:00
26:00
Time
File:P004411 #1-3027 Acq:5-DEC-00 21:53:44 EI+ Voltage SIR 70P
317.9389 Exp:DB225
Sample Text:TLI#52366R1 BASF-SMW-13 INJ. TIME = 21:53 File Text:TLI#52366R1
100%
50
0
23:48
23:16
2.3E5
1.2E5
0.0E0
22:00
23:00
24:00
25:00
26:00
Time



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TLI Project: **52366r1** Method 8290 PCDD/PCDF Analysis
Client Sample: **BASF-SMW-20** Analysis File: **T006**

Client Project:	BASF-Malcolm Pirnie				
Sample Matrix:	WATER	Date Received:	11/17/2000	Spike File:	SPMIT32
TLI ID:	274-99-8B	Date Extracted:	12/01/2000	ICal:	TF57140
		Date Analyzed:	12/05/2000	ConCal:	T005996
Sample Size:	1.060 L	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T005998	% Lipid:	n/a
GC Column:	DB-5	Analyst:	DFS	% Solids:	n/a

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Fla
2,3,7,8-TCDD	ND	121				_
1,2,3,7,8-PeCDD	EMPC		215			_
1,2,3,4,7,8-HxCDD	348			1.20	34:09	_
1,2,3,6,7,8-HxCDD	1440			1.27	34:14	_
1,2,3,7,8,9-HxCDD	1100			1.09	34:34	_
1,2,3,4,6,7,8-HpCDD	26770			1.02	37:39	E_
1,2,3,4,6,7,8,9-OCDD	172670			0.84	41:34	E_
2,3,7,8-TCDF	2850			0.84	26:23	_
1,2,3,7,8-PeCDF	EMPC		1690			X_
2,3,4,7,8-PeCDF	849			1.63	30:45	_
1,2,3,4,7,8-HxCDF	2930			1.29	33:26	_
1,2,3,6,7,8-HxCDF	878			1.19	33:32	_
2,3,4,6,7,8-HxCDF	759			1.24	34:02	_
1,2,3,7,8,9-HxCDF	EMPC		133			_
1,2,3,4,6,7,8-HpCDF	3890			1.07	36:33	_
1,2,3,4,7,8,9-HpCDF	742			1.11	38:12	_
1,2,3,4,6,7,8,9-OCDF	4570			0.87	41:48	_

Totals	Conc. (pg/L)	Number	DL	EMPC	Fla
Total TCDD	330	1		695	_
Total PeCDD	1510	4		2140	_
Total HxCDD	12810	7		12950	_
Total HpCDD	51020	2			E
Total TCDF	9510	8		12240	_
Total PeCDF	5830	9		7800	X
Total HxCDF	8280	8		8610	_
Total HpCDF	7840	3		8060	_

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TLI Project: **52366r1** Method 8290 PCDD/PCDF Analysis (
Client Sample: **BASF-SMW-20** Analysis File: **T0060**

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	128	6.76	40%-130%	0.70	26:22	V__
$^{13}C_{12}$-2,3,7,8-TCDD	116	6.15	40%-130%	0.77	27:00	V__
$^{13}C_{12}$-1,2,3,7,8-PeCDF	74.7	3.96	40%-130%	1.35	30:06	V__
$^{13}C_{12}$-1,2,3,7,8-PeCDD	88.7	4.70	40%-130%	1.38	31:03	V__
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	89.7	4.76	40%-130%	0.52	33:31	V__
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	105	5.54	40%-130%	1.22	34:13	V__
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	69.9	3.70	25%-130%	0.46	36:33	V__
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	91.6	4.85	25%-130%	0.99	37:38	V__
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	58.1	1.54	25%-130%	0.85	41:32	V__

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-2,3,4,7,8-PeCDF	71.0	3.76	40%-130%	1.53	30:44	V__
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	87.8	4.66	40%-130%	0.51	33:25	V__
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	96.9	5.14	40%-130%	1.26	34:08	V__
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	58.4	3.09	25%-130%	0.52	38:10	VRO_

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flag
$^{37}Cl_4$-2,3,7,8-TCDD	213	113	40%-130%	27:01	__

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	115	6.08	40%-130%	0.50	34:50	V__
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	101	5.33	40%-130%	0.51	34:02	V__

Recovery Standards	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,4-TCDD	0.79	26:50	__
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.21	34:33	__

Data Reviewer: JCM 12/13/2000

MIT3_PSR v1.00. LAR

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TLI Project: **52366r1** Toxicity Equivalents Re
Client Sample: **BASF-SMW-20** Analysis File: **T006**

Client Project:	BASF-Malcolm Pirnie				
Sample Matrix:	WATER	Date Received:	11/17/00	Spike File:	SPMIT32
TLI ID:	274-99-8B	Date Extracted:	12/01/00	ICal:	TF57140
		Date Analyzed:	12/05/00	ConCal:	T005996
Sample Size:	1.060 L	Dilution Factor:	1	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T005998	% Lipid:	n/a
GC Column:	DB-5	Analyst:	DFS	% Solids:	n/a

Analytes	Conc. (pg/L)		TEF		Equivalent
2,3,7,8-TCDD	{121}	x	1.	=	121
1,2,3,7,8-PeCDD	[215]	x	0.5	=	108
1,2,3,4,7,8-HxCDD	348	x	0.1	=	34.8
1,2,3,6,7,8-HxCDD	1440	x	0.1	=	144.0
1,2,3,7,8,9-HxCDD	1100	x	0.1	=	110.0
1,2,3,4,6,7,8-HpCDD	26770	x	0.01	=	267.70
1,2,3,4,6,7,8,9-OCDD	172670	x	0.001	=	172.670
TOTAL PCDD					958
2,3,7,8-TCDF	1860	x	0.1	=	186.0
1,2,3,7,8-PeCDF	[1690]	x	0.05	=	84.50
2,3,4,7,8-PeCDF	849	x	0.5	=	425
1,2,3,4,7,8-HxCDF	2930	x	0.1	=	293.0
1,2,3,6,7,8-HxCDF	878	x	0.1	=	87.8
2,3,4,6,7,8-HxCDF	759	x	0.1	=	75.9
1,2,3,7,8,9-HxCDF	[133]	x	0.1	=	13.3
1,2,3,4,6,7,8-HpCDF	3890	x	0.01	=	38.90
1,2,3,4,7,8,9-HpCDF	742	x	0.01	=	7.42
1,2,3,4,6,7,8,9-OCDF	4570	x	0.001	=	4.570
TOTAL PCDF					1216

Total EPA TEFs, 1989a: 2175 pg/L

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

GRY_TEF v1.08, MI

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2

Initial ....Date...

Data Review By: JCH 12/13/00

Calculated Noise Height: 0.21

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 T006007B.dbf
12/13/2000 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_I....	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				0.880-1.070			
304-306	DC	NL				Height	0.26	0.14	0.12				
				23:59	RO	0.93	2.89	1.52	1.63	0.910			
				24:14		0.83	8.42	3.82	4.60	0.919			
				24:39		0.76	18.00	7.77	10.23	0.935			
				24:50		0.78	19.69	8.64	11.05	0.942			
M				25:06	RO	0.90	17.66	9.02	9.98	0.952			
				25:24		0.79	16.69	7.37	9.32	0.963			
				25:48		0.89	35.76	16.79	18.97	0.979			
				25:58		0.82	40.17	18.12	22.05	0.985	1278-TCDF		AN
				26:12		0.81	9.32	4.18	5.14	0.994			
				26:23		0.84	62.71	28.56	34.15	1.001	2378-TCDF		AN
X		X		26:46	RO	0.90	10.74	5.46	6.07	1.015			
				26:58	RO	0.96	8.83	4.80	4.99	1.023			
X		X		27:19	RO	0.85	7.78	3.57	4.21	1.036			
X		X		27:40	RO	0.73	8.37	3.52	4.85	1.049			
				27:54	RO	2.18	3.77	4.64	2.13	1.058			
D	D		WH	28:13		0.79	4.02			1.070			
304-306			15	Peaks			270.80						
13C12-TCDF						0.65-0.89				0.962-1.033			
316-318	DC	NL				Height	0.27	0.12	0.15				
	DC	WL		23:11		0.77	5.49			0.879			
				26:09	RO	2.52	0.37	0.53	0.21	0.992			
				26:22		0.70	40.65	16.80	23.85	1.000	13C12-2378-TCDF		ISO
						Height	10.34	4.34	6.00				
				26:59		0.75	3.32	1.42	1.90	1.023			
316-318			3	Peaks			44.34						

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

TCDD						0.65-0.89				0.904-1.042			
320-322	DC	NL				Height	0.18	0.09	0.09				
H				24:43	RO	0.35	5.36	2.33	6.60	0.915			
				25:04		0.72	4.86	2.04	2.82	0.928			
D	D		SN	25:16	RO	0.02	1.26			0.936			
	DC		SN	25:25	RO	0.06	0.39			0.941			
D	D		SN	26:10	RO	0.96	2.50			0.969			
D	D		SN	26:47	RO	0.93	1.50			0.992			
D	D		SN	26:56		0.67	2.51			0.998			
D	D		SN	27:21	RO	1.62	0.69			1.013			
D	D		SN	27:34	RO	1.12	0.44			1.021			
	DC		SN	27:45	RO	0.90	0.55			1.028			
	DC		SN	28:06		0.85	0.37			1.041			

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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
320-322			2 Peaks				10.22						
37C1-TCDD										0.925-1.075			
328	DC	NL				Height	0.11	0.11					
	DC	WL		24:18			42.68			0.900			
	DC	WL		24:37			1.16			0.912			
	DC	WL		24:54			1.66			0.922			
				25:02			1.75	1.75		0.927			
				25:16			4.37	4.37		0.936			
				25:24			0.55	0.55		0.941			
				25:42			254.83	254.83		0.952			
				26:25			2.17	2.17		0.978			
				27:01			47.06	47.06		1.001	37C1-TCDD		CLS
				27:22			13.39	13.39		1.014			
				28:15			3.50	3.50		1.046			
328			8 Peaks				327.62						
13C12-TCDD						0.65-0.89				0.925-1.075			
332-334	DC	NL				Height	0.23	0.15	0.08				
	DC	WL		24:23	RO	0.97	0.87			0.903			
	DC	WL		24:50	RO	1.08	0.67			0.920			
				26:50		0.79	469.06	206.97	262.09	0.994	13C12-1234-TCDD		RS1
				27:00		0.77	30.37	13.25	17.12	1.000	13C12-2378-TCDD		IS1
						Height	8.97	4.14	4.83				
	DC	SN		27:58	RO	2.28	0.51			1.036			
	DC	SN		28:11	RO	0.35	0.39			1.044			
332-334			2 Peaks				499.43						
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF						1.32-1.78				0.930-1.060			
340-342	DC	NL				Height	0.18	0.08	0.10				
	DC	WL		27:49		1.50	0.30			0.924			
	DC	SN		28:00	RO	1.90	0.26			0.930			
				28:13		1.40	3.31	1.93	1.38	0.937			
				29:17		1.57	19.59	11.96	7.63	0.973			
				29:26		1.48	2.80	1.67	1.13	0.978			
M				29:45		1.49	3.24	1.94	1.30	0.988			
				29:51		1.53	3.64	2.20	1.44	0.992			
A				30:03		1.60	3.93	2.42	1.51	0.998			
MX		X		30:07	RO	1.50	18.17	10.90	7.27	1.001	12378-PeCDF		AN
M				30:21		1.54	9.82	5.96	3.86	1.008			
N				30:45		1.63	9.27	5.75	3.52	1.022	23478-PeCDF		AN
				30:53		1.37	7.67	4.44	3.23	1.026			
D	D	SN		31:17	RO	0.74	0.51			1.039			
				31:24	RO	1.17	1.35	0.82	0.70	1.043			
				31:42	RO	1.19	1.71	0.80	0.67	1.053			
	DC	SN		31:51	RO	1.14	0.92			1.058			
340-342			12 Peaks				84.50						
13C12-PeCDF						1.32-1.78				0.866-1.134			
352-354	DC	NL				Height	0.14	0.07	0.07				

Compound/ M_3....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				27:48	RO	0.74	4.36	2.65	3.57	0.924			
	DC	SN		28:06		1.36	0.59			0.934			
				28:25	RO	0.30	0.36	0.22	0.74	0.944			
	DC	SN		28:40	RO	2.04	0.66			0.952			
	DC	SN		28:57		1.54	0.66			0.962			
	DC	SN		29:16	RO	3.50	0.10			0.972			
	DC	SN		29:39	RO	0.19	0.08			0.985			
				30:06		1.35	22.27	12.78	9.49	1.000	13C12-PeCDF 123	IS2	
						Height	7.30	4.21	3.09				
	DC	SN		30:16	RO	0.53	0.30			1.006			
	DC	SN		30:21	RO	0.39	0.18			1.008			
N				30:44		1.53	20.95	12.68	8.27	1.021	13C12-PeCDF 234	SUR1	
				31:03	RO	3.84	0.48	0.73	0.19	1.032			
	DC	SN		31:12	RO	0.94	0.53			1.037			
				31:28		1.69	1.56	0.98	0.58	1.045			
	DC	SN		31:33	RO	1.00	0.82			1.048			
	DC	SN		31:50	RO	0.87	0.54			1.058			
352-354			6	Peaks			49.98						

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

PeCDD				1.32-1.78					0.938-1.020				
356-358	DC	NL				Height	0.12	0.06	0.06				
				29:45	RO	1.31	1.55	0.94	0.72	0.958			
D	D	SN		29:51	RO	0.98	0.99			0.961			
				30:03		1.47	3.44	2.05	1.39	0.968			
				30:11		1.34	2.72	1.56	1.16	0.972			
				30:21		1.47	2.45	1.46	0.99	0.977			
				30:36		1.34	4.09	2.34	1.75	0.986			
D	D	SN		30:46		1.53	1.24			0.991			
				30:54	RO	0.45	1.14	0.69	1.54	0.995			
				31:04	RO	1.80	1.81	1.28	0.71	1.001	12378-PeCDD	AN	
D	D	SN		31:12	RO	0.73	0.79			1.005			
				31:31	RO	0.82	0.82	0.50	0.61	1.015			
	DC	WH		31:53	RO	0.95	0.35			1.027			
356-358			8	Peaks			18.02						

13C12-PeCDD				1.32-1.78					0.871-1.129				
368-370	DC	NL				Height	0.11	0.06	0.05				
				29:12	RO	2.98	1.20	1.40	0.47	0.940			
	DC	SN		29:32	RO	1.08	0.31			0.951			
	DC	SN		30:10		1.40	0.24			0.972			
				30:21	RO	2.27	1.25	1.11	0.49	0.977			
	DC	SN		30:32	RO	0.12	0.36			0.983			
				31:03		1.38	15.04	8.72	6.32	1.000	13C12-PeCDD 123	IS3	
						Height	4.99	2.96	2.03				
	DC	SN		31:20	RO	0.57	0.13			1.009			
	DC	SN		31:24		1.71	0.19			1.011			
	DC	SN		31:38	RO	3.08	0.33			1.019			
	DC	SN		31:48	RO	0.74	0.28			1.024			
	DC	SN		31:56	RO	1.00	0.36			1.028			
368-370			3	Peaks			17.49						

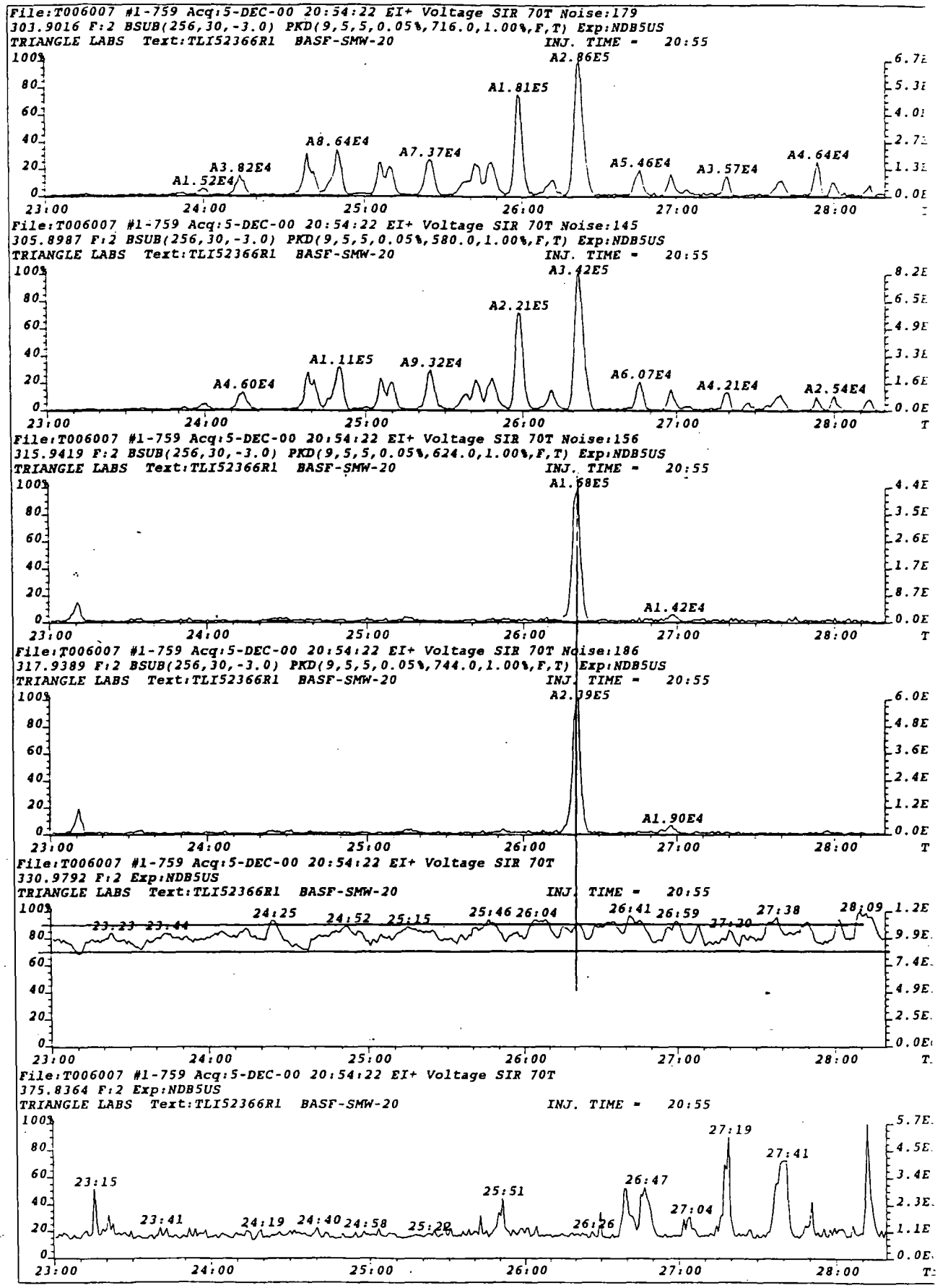
Compound/ M_I....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flag
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF						1.05-1.43				0.963-1.047			
374-376	DC	NL				Height	0.20	0.13	0.07				
				32:23		1.23	1.94	1.09	0.85	0.969			
				32:36		1.26	15.14	8.45	6.69	0.973			
	DC	SN		32:46	RO	0.90	0.51			0.978			
				32:54		1.12	1.06	0.56	0.50	0.982			
				33:03		1.34	13.70	7.84	5.86	0.986			
				33:26		1.29	28.73	16.19	12.54	0.998	123478-HxCDF		AN
				33:32		1.19	9.01	4.90	4.11	1.000	123678-HxCDF		AN
X		X		33:41	RO	1.05	1.76	0.90	0.86	1.005			
	DC	SN		33:51	RO	2.03	0.72			1.010			
				34:02		1.24	7.04	3.90	3.14	1.015	234678-HxCDF		AN
	DC	SN		34:11	RO	1.00	0.40			1.020			
	DC	SN		34:15	RO	2.50	0.04			1.022			
AN				34:50	RO	1.00	1.01	0.56	0.56	1.039	123789-HxCDF		AN
M				34:56		1.10	2.44	1.28	1.16	1.042			
	DC	WH		35:08	RO	0.26	0.13			1.048			
	DC	WH		35:11	RO	0.25	0.07			1.050			
	DC	WH		35:22	RO	0.97	1.37			1.055			
374-376		10	Peaks				81.33						
13C12-HxCDF						0.43-0.59				0.880-1.120			
384-386	DC	NL				Height	0.15	0.06	0.09				
	DC	SN		33:11	RO	1.00	0.11			0.990			
	DC	SN		33:19	RO	0.12	0.06			0.994			
				33:25		0.51	17.37	5.86	11.51	0.997	13C12-HxCDF 478		SUR2
				33:31		0.52	18.01	6.18	11.83	1.000	13C12-HxCDF 678		IS4
						Height	5.72	1.88	3.84				
	DC	SN		33:39	RO	0.38	0.15			1.004			
	DC	SN		33:43		0.50	0.15			1.006			
	DC	SN		33:47		0.47	0.25			1.008			
				34:02		0.51	18.41	6.20	12.21	1.015	13C12-HxCDF 234		ALT2
	DC	SN		34:08	RO	1.00	0.12			1.013			
	DC	SN		34:17	RO	2.67	0.23			1.023			
				34:50		0.50	15.44	5.12	10.32	1.039	13C12-HxCDF 789		ALT1
	DC	SN		35:20		0.57	0.22			1.054			
384-386		4	Peaks				69.23						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD						1.05-1.43				0.957-1.013			
390-392	DC	NL				Height	0.25	0.10	0.15				
				32:57		1.24	17.44	9.65	7.79	0.963			
				33:23		1.16	7.86	4.22	3.64	0.976			
				33:36		1.24	43.88	24.29	19.59	0.982			
				33:47		1.38	1.12	0.65	0.47	0.987			
				34:00	RO	0.62	1.01	0.56	0.90	0.994			
				34:09		1.20	2.46	1.34	1.12	0.998	123478-HxCDD		AN
				34:14		1.27	10.20	5.70	4.50	1.000	123678-HxCDD		AN
				34:34		1.09	7.87	4.10	3.77	1.010	123789-HxCDD		AN

Compound/ M_Z....	QC	Log	Cmit	Why	RT.	OK	Ratio	Total Area/Ht	Area/Ht Peak1	Area/Ht Peak2	Rel.RT	Compound Name	ID	Flags
390-392			8 Peaks					91.84						
13C12-HxCDD					1.05-1.43						0.971-1.029			
402-404	DC	NL			Height			0.15	0.08	0.07				
	DC	WL			32:54	RO	2.07	4.17			0.962			
	DC	SN			33:35	RO	2.90	0.22			0.981			
					34:08		1.26	12.59	7.02	5.57	0.998	13C12-HxCDD 478	SUR3	
					34:13		1.22	13.12	7.21	5.91	1.000	13C12-HxCDD 678	IS5	
					Height			4.25	2.43	1.82				
					34:33		1.21	260.85	143.05	117.80	1.010	13C12-HxCDD 789	RS2	
	DC	SN			34:43	RO	2.27	0.25			1.015			
402-404			3 Peaks					286.56						
---------- Above: HxCDD / HpCDF Follows ----------														
HpCDF					0.88-1.20						0.995-1.050			
408-410	DC	NL			Height			0.28	0.18	0.10				
					36:33		1.07	24.27	12.55	11.72	1.000	1234678-HpCDF	AN	
					36:50	RO	1.68	1.20	0.99	0.59	1.008			
					36:59		1.12	17.71	9.34	8.37	1.012			
	DC	SN			37:38	RO	0.87	0.65			1.030			
					38:12		1.11	3.57	1.88	1.69	1.045	1234789-HpCDF	AN	
408-410			4 Peaks					46.75						
13C12-HpCDF					0.37-0.51						0.945-1.110			
418-420	DC	NL			Height			0.20	0.09	0.11				
					36:33		0.46	9.37	2.96	6.41	1.000	13C12-HpCDF 678	IS6	
					Height			2.41	0.76	1.65				
	DC	SN			37:14	RO	2.67	0.09			1.019			
	DC	SN			37:20	RO	4.60	0.07			1.021			
	DC	SN			37:30	RO	0.61	0.33			1.026			
	DC	SN			37:48	RO	1.89	0.13			1.034			
M					38:10	RO	0.52	6.09	2.18	4.23	1.044	13C12-HpCDF 789	SUR4	
	DC	SN			38:34	RO	0.54	0.43			1.055			
418-420			2 Peaks					15.46						
---------- Above: HpCDF / HpCDD Follows ----------														
HpCDD					0.88-1.20						0.974-1.004			
424-426	DC	NL			Height			0.21	0.12	0.09				
					36:51		1.01	119.37	60.08	59.29	0.979			E
	DC	SN			37:03	RO	1.42	0.24			0.984			
	DC	SN			37:21	RO	0.45	0.37			0.992			
					37:39		1.02	131.72	66.65	65.07	1.000	1234678-HpCDD	AN	E
424-426			2 Peaks					251.09						
13C12-HpCDD					0.88-1.20						0.973-1.027			
436-438	DC	NL			Height			0.16	0.09	0.07				
					37:38		0.99	10.86	5.40	5.46	1.000	13C12-HpCDD 678	IS7	
					Height			2.70	1.29	1.41				
	DC	SN			37:51	RO	3.07	0.29			1.006			
	DC	SN			38:03	RO	0.30	0.18			1.011			

Compound/ M_Z....	QC.Log	Cmit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
436-438			1 Peak				10.86						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF						0.76-1.02			0.904-1.096				
442-444	DC	NL				Height	0.08	0.04	0.04				
	DC	WL		36:33	RO	1.50	0.15			0.880			
	DC	WL		36:38	RO	1.25	0.15			0.882			
	DC	WL		37:09		1.00	0.22			0.894			
	DC	SN		37:42	RO	2.33	0.06			0.908			
	DC	SN		38:48	RO	2.50	0.15			0.934			
	DC	SN		39:04		0.83	0.22			0.941			
	DC	SN		39:16	RO	0.60	0.38			0.945			
	DC	SN		40:28	RO	0.75	0.13			0.974			
	DC	SN		41:37	RO	1.50	0.23			1.002			
				41:48		0.87	7.48	3.49	3.99	1.006	OCDF		AN
	DC	SN		43:39		0.93	0.27			1.051			
	DC	SN		44:04	RO	0.50	0.15			1.061			
	DC	SN		44:10	RO	0.48	0.28			1.063			
	DC	SN		44:28	RO	4.50	0.04			1.071			
442-444			1 Peak				7.48						
OCDD						0.76-1.02			0.904-1.096				
458-460	DC	NL				Height	0.09	0.04	0.05				
				41:34		0.84	234.62	106.93	127.69	1.001	OCDD		AN E
458-460			1 Peak				234.62						
13C12-OCDD						0.76-1.02			0.996-1.004				
470-472	DC	NL				Height	0.09	0.04	0.05				
				41:32		0.35	5.61	2.58	3.03	1.000	13C12-OCDD		IS8
						Height	1.12	0.50	0.62				
470-472			1 Peak				5.61						

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 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,716.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55
A2.86E5
A1.81E5
A8.64E4
A7.37E4
A3.82E4
A1.52E4
A5.46E4
A3.57E4
A4.64E4
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:145
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,580.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55
A3.42E5
A2.21E5
A1.11E5
A9.32E4
A4.60E4
A6.07E4
A4.21E4
A2.54E4
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:156
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,624.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55
A1.68E5
A1.42E4
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:186
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,744.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55
A2.39E5
A1.90E4
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55
23:23 23:44
24:25
24:52
25:15
25:46 26:04
26:41
26:59
27:20
27:38
28:09
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55
23:15
23:41
24:19
24:40
24:58
25:20
25:51
26:26
26:47
27:04
27:19
27:41
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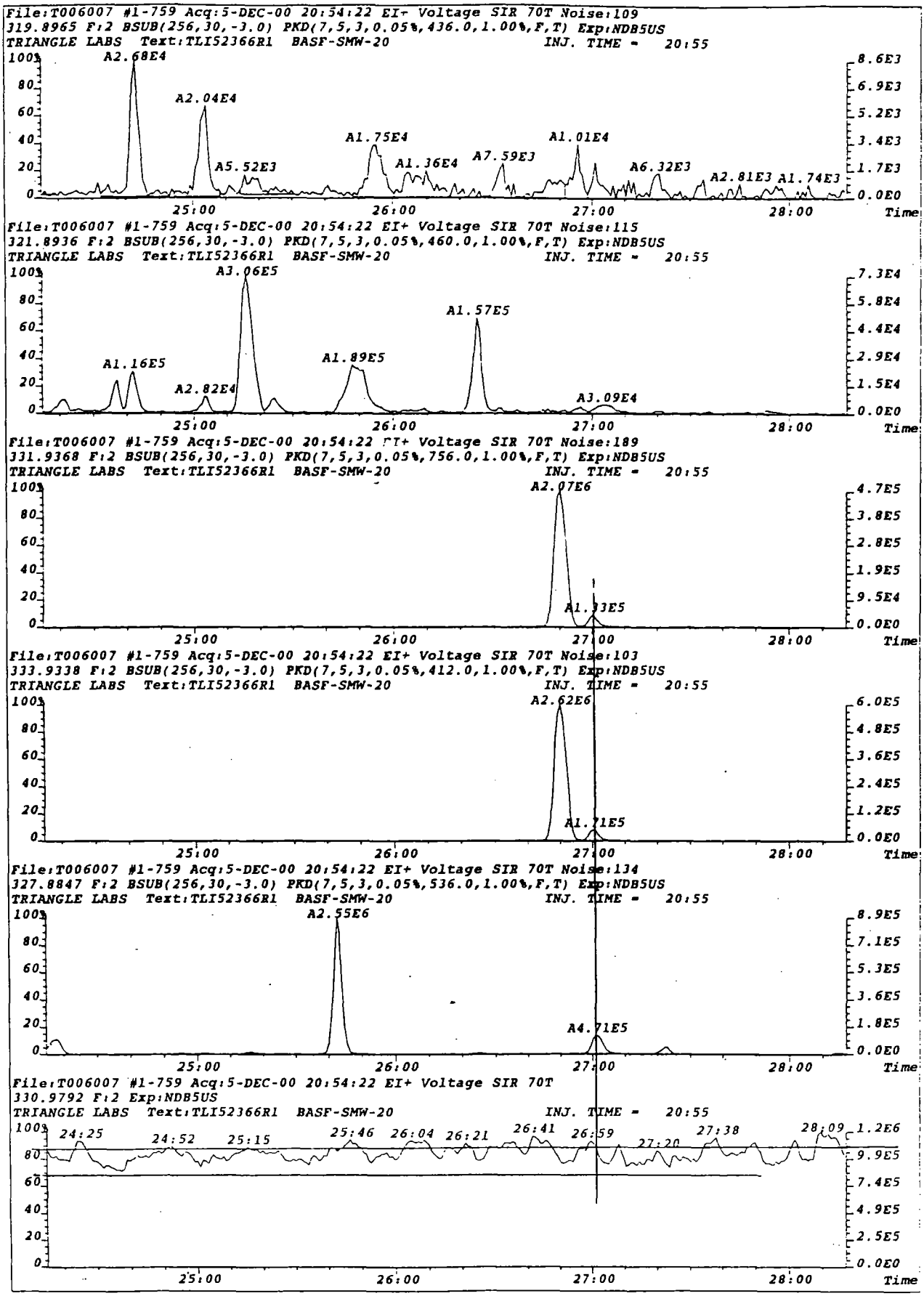
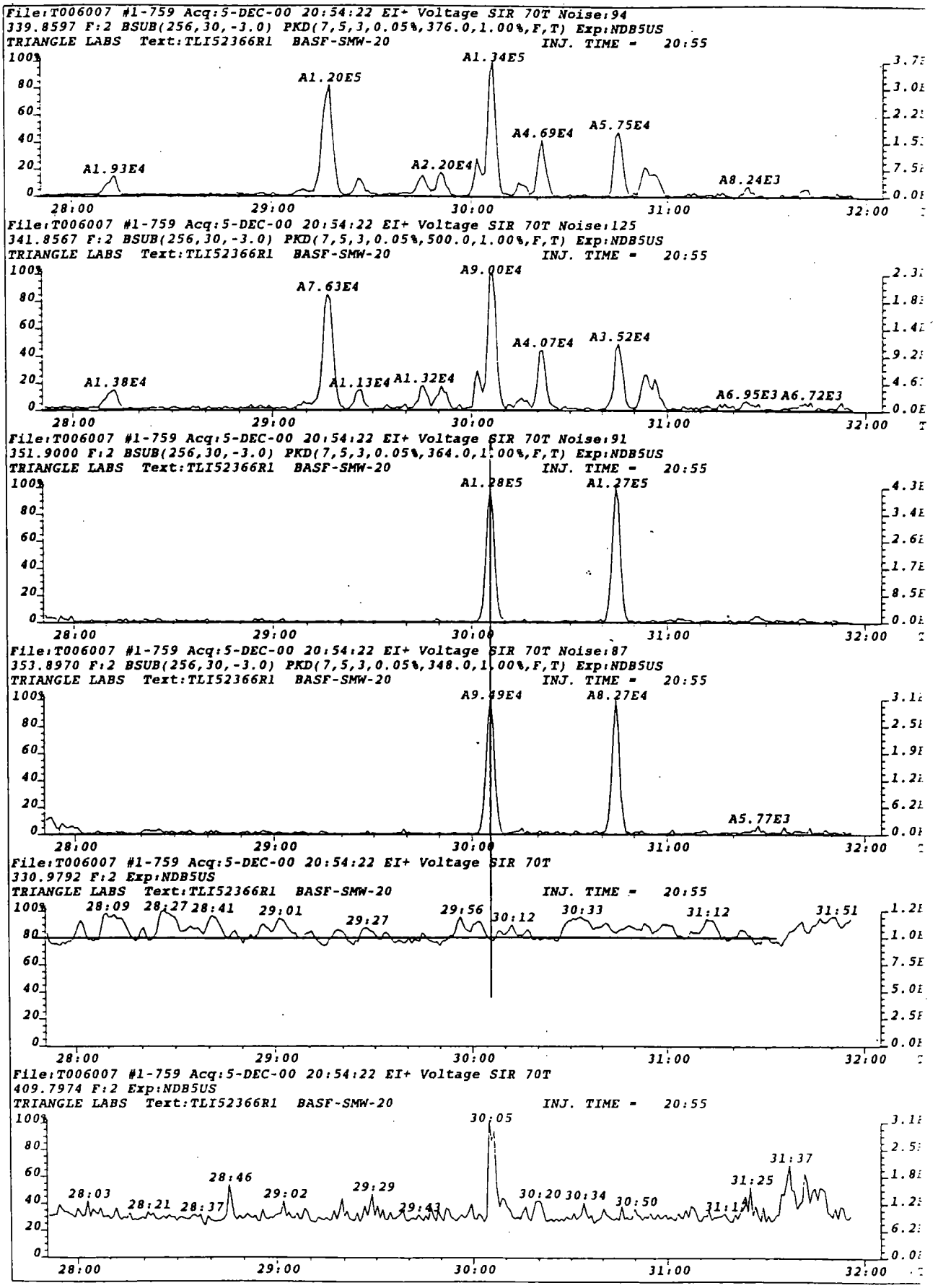
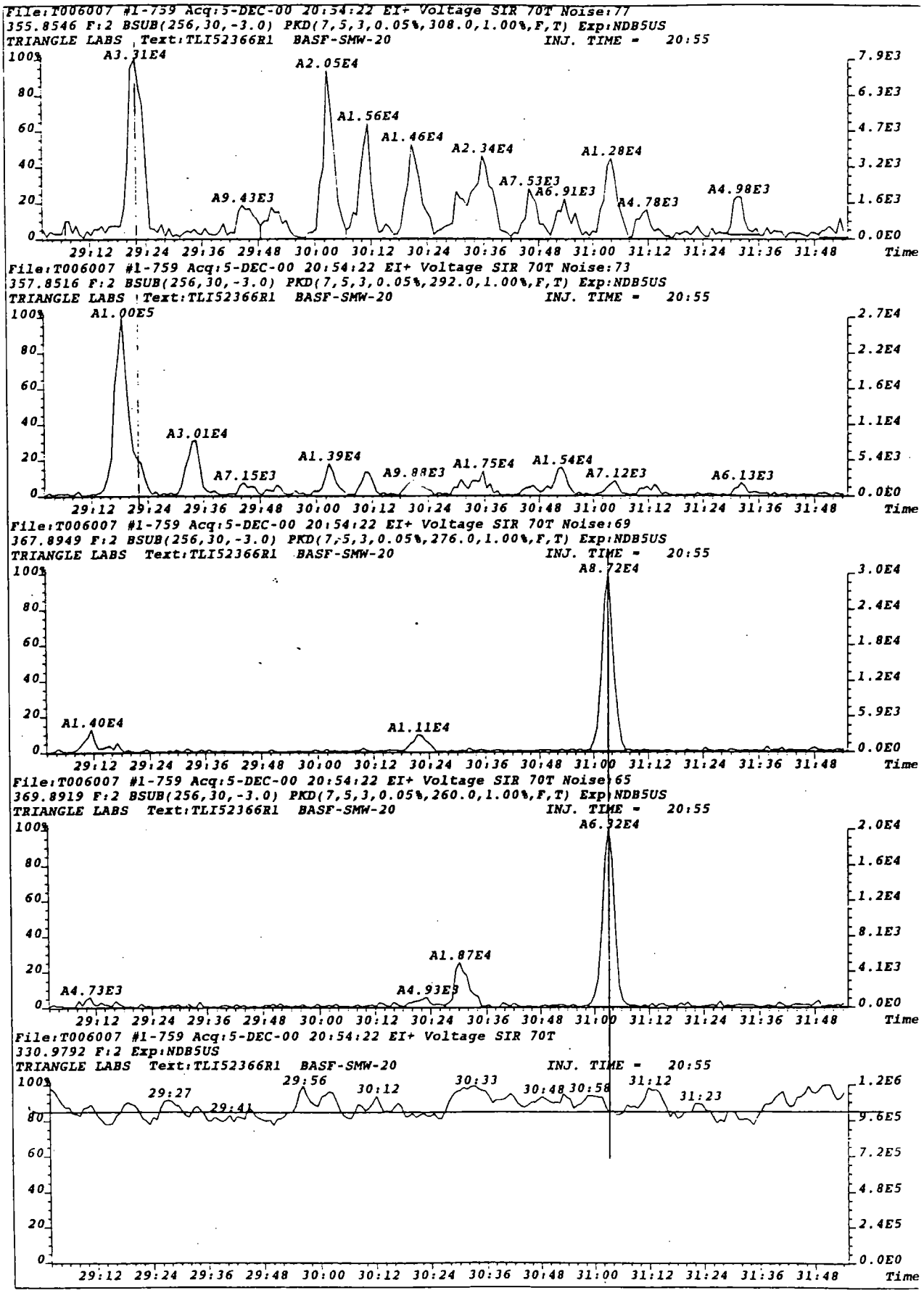
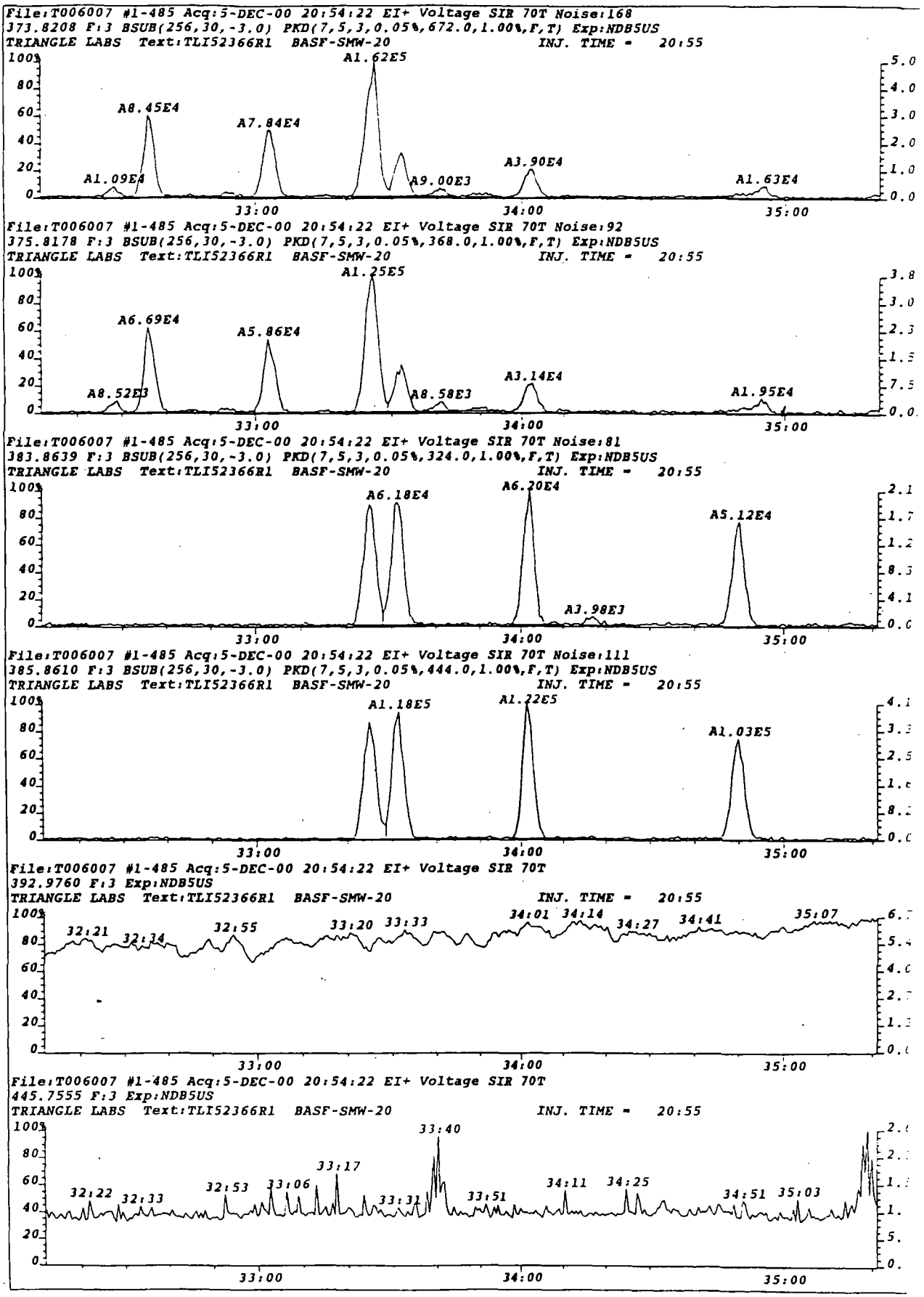
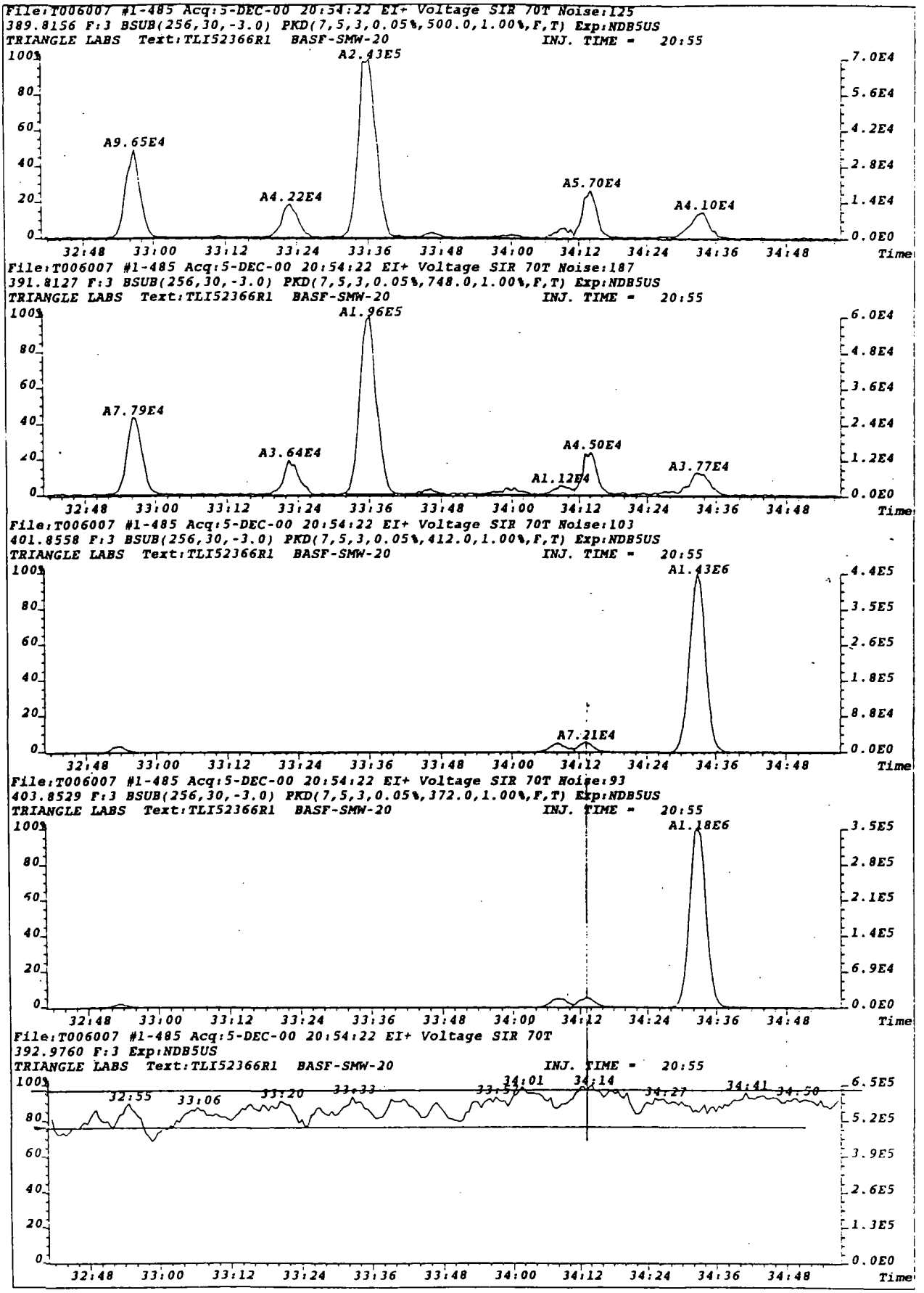
25:00
26:00
27:00
28:00

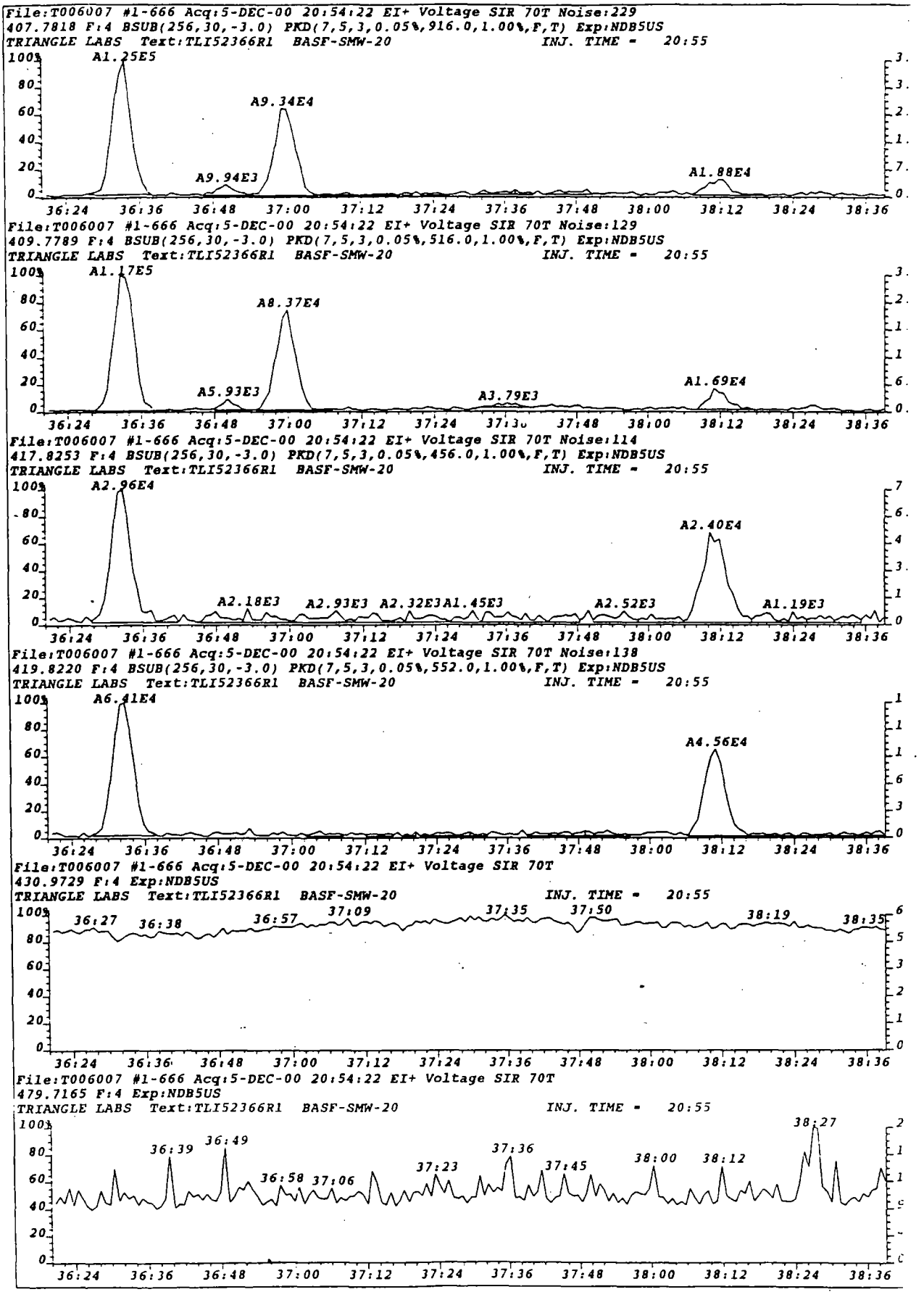

File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:109
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,436.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A2.68E4
A2.04E4
A5.52E3
A1.75E4
A1.36E4
A7.59E3
A1.01E4
A6.32E3
A2.81E3
A1.74E3
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:115
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,460.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A3.06E5
A1.57E5
A1.16E5
A1.89E5
A2.82E4
A3.09E4
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:189
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,756.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A2.07E6
A1.93E5
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:103
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,412.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A2.62E6
A1.71E5
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:134
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,536.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A2.55E6
A4.71E5
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
24:25
24:52
25:15
25:46
26:04
26:21
26:41
26:59
27:20
27:38
28:09
25:00
26:00
27:00
28:00
Time

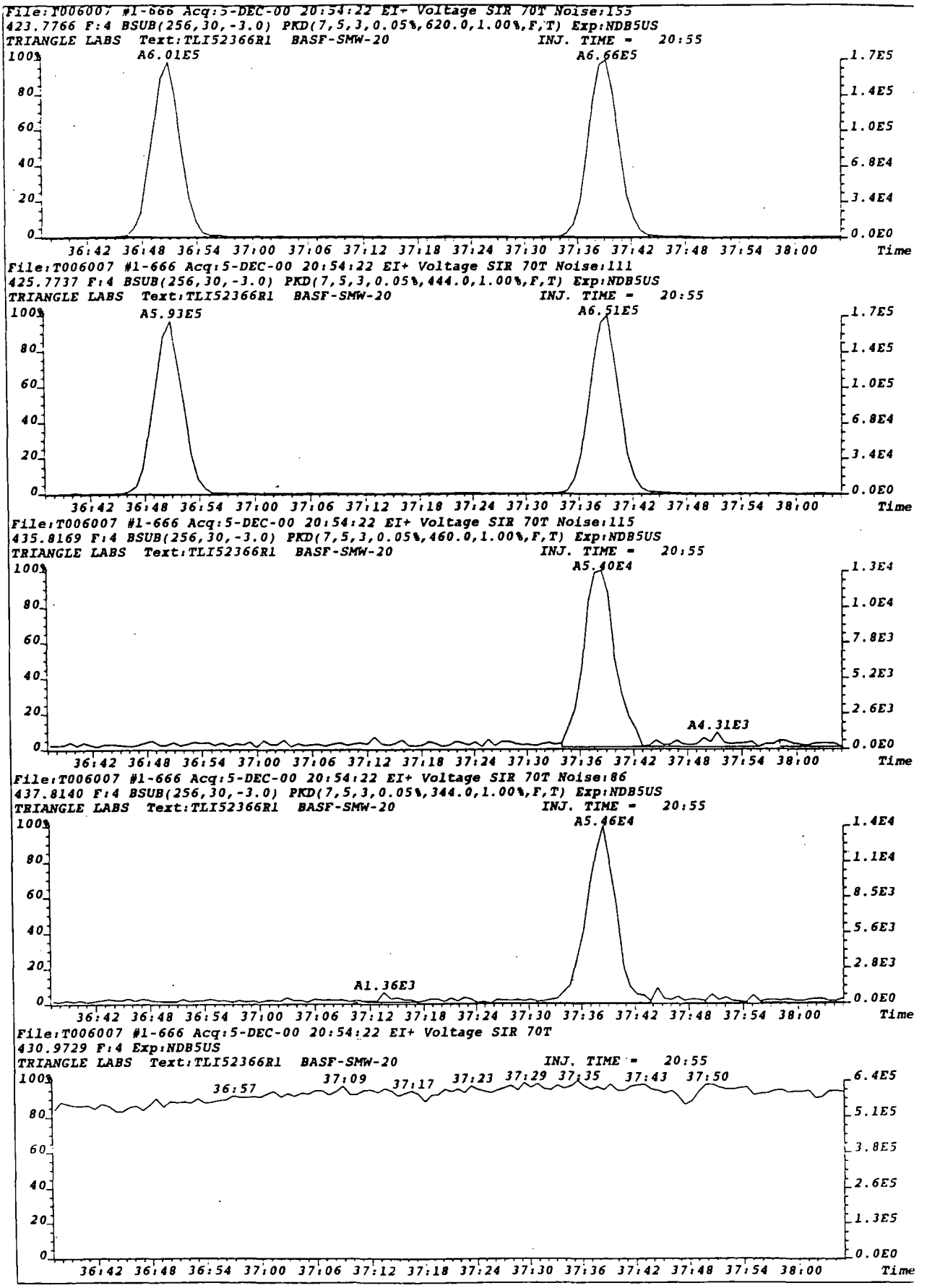

File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:94
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,376.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A1.20E5
A1.34E5
A4.69E4
A5.75E4
A1.93E4
A2.20E4
A8.24E3
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:125
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,500.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A7.63E4
A9.00E4
A4.07E4
A3.52E4
A1.38E4
A1.13E4
A1.32E4
A6.95E3
A6.72E3
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:91
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A1.28E5
A1.27E5
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:87
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,348.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A9.49E4
A8.27E4
A5.77E3
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
28:09
28:27
28:41
29:01
29:27
29:56
30:12
30:33
31:12
31:51
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
30:05
28:03
28:21
28:37
28:46
29:02
29:29
29:43
30:20
30:34
30:50
31:25
31:37
28:00
29:00
30:00
31:00
32:00


File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:77
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A3.31E4
A2.05E4
A1.56E4
A1.46E4
A2.34E4
A1.28E4
A7.53E3
A6.91E3
A9.43E3
A4.78E3
A4.98E3
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 Time
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:73
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,292.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A1.00E5
A3.01E4
A1.39E4
A7.15E3
A9.88E3
A1.75E4
A1.54E4
A7.12E3
A6.13E3
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 Time
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:69
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A8.72E4
A1.40E4
A1.11E4
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 Time
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:65
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A6.32E4
A1.87E4
A4.73E3
A4.93E3
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 Time
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
29:27
29:41
29:56
30:12
30:33
30:48
30:58
31:12
31:23
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 Time

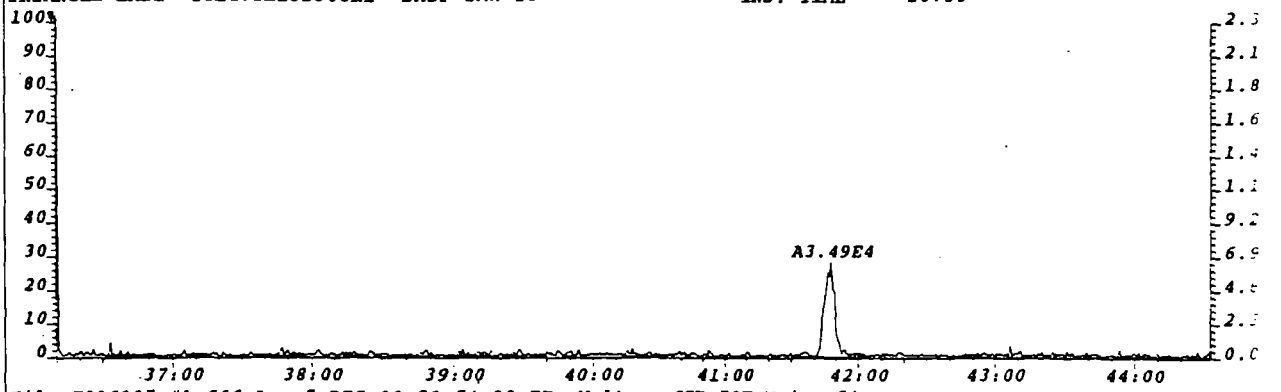

File:T006007 #1-485 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:168
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,672.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A1.62E5
A8.45E4
A7.84E4
A3.90E4
A1.09E4
A9.00E3
A1.63E4
33:00
34:00
35:00
File:T006007 #1-485 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:92
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,368.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A1.25E5
A6.69E4
A5.86E4
A3.14E4
A8.52E3
A8.58E3
A1.95E4
33:00
34:00
35:00
File:T006007 #1-485 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:81
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,324.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A6.18E4
A6.20E4
A5.12E4
A3.98E3
33:00
34:00
35:00
File:T006007 #1-485 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:111
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,444.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A1.18E5
A1.22E5
A1.03E5
33:00
34:00
35:00
File:T006007 #1-485 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
32:21
32:34
32:55
33:20
33:33
34:01
34:14
34:27
34:41
35:07
33:00
34:00
35:00
File:T006007 #1-485 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
33:40
33:17
32:22
32:33
32:53
33:06
33:31
33:51
34:11
34:25
34:51
35:03
33:00
34:00
35:00


File:T006007 #1-485 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:125
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,500.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A9.65E4
A4.22E4
A2.43E5
A5.70E4
A4.10E4
Time
File:T006007 #1-485 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:187
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,748.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A7.79E4
A3.64E4
A1.96E5
A1.12E4
A4.50E4
A3.77E4
Time
File:T006007 #1-485 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:103
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,412.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A7.21E4
A1.43E6
Time
File:T006007 #1-485 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:93
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,372.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A1.18E6
Time
File:T006007 #1-485 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
32:55
33:06
33:20
33:33
34:01
34:14
34:27
34:41
34:50
Time

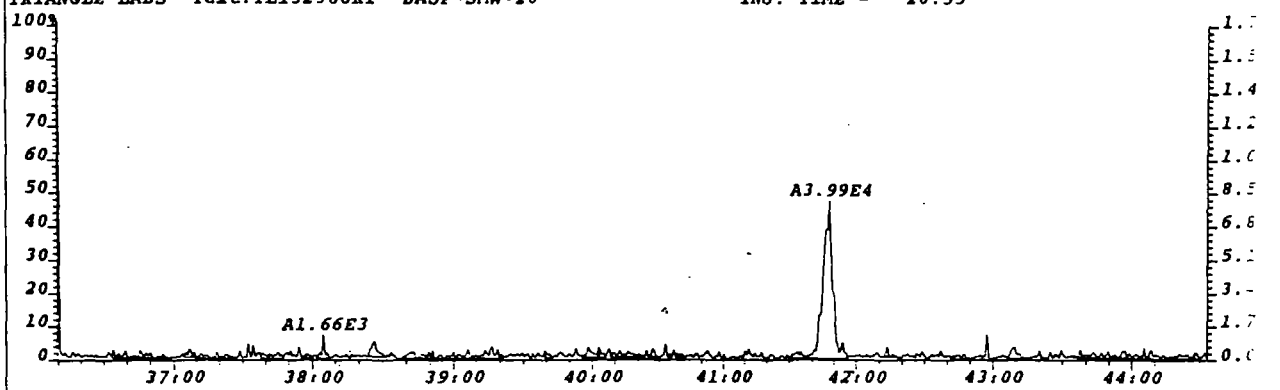

File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:229
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,916.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A1.25E5
A9.34E4
A9.94E3
A1.88E4
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:129
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,516.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A1.17E5
A8.37E4
A5.93E3
A3.79E3
A1.69E4
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:114
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,456.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A2.96E4
A2.40E4
A2.18E3
A2.93E3
A2.32E3
A1.45E3
A2.52E3
A1.19E3
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:138
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,552.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A6.41E4
A4.56E4
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55


File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:155
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,620.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A6.01E5
A6.66E5
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:111
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,444.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A5.93E5
A6.51E5
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:115
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,460.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A5.40E4
A4.31E3
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:86
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,344.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A5.46E4
A1.36E3
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
36:57
37:09
37:17
37:23
37:29
37:35
37:43
37:50
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00
Time

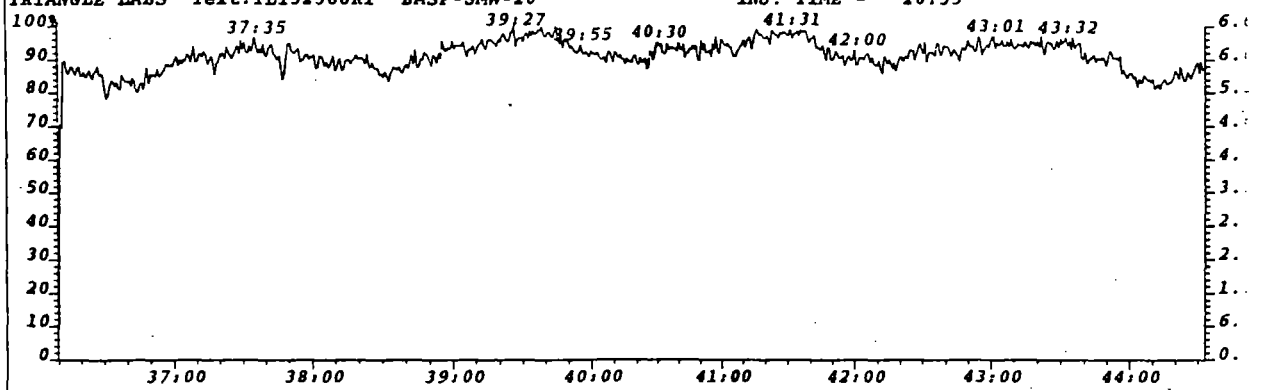
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:50
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55



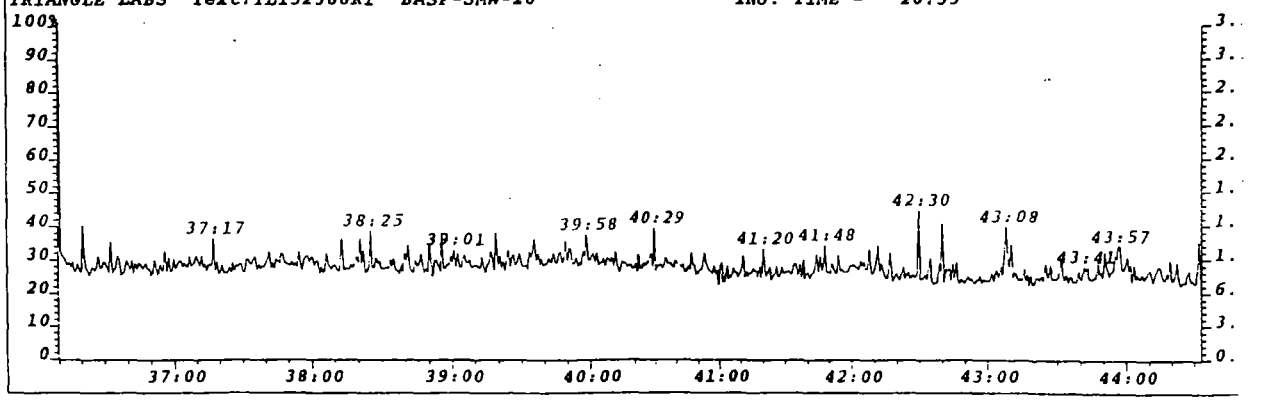
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:54
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,216.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55

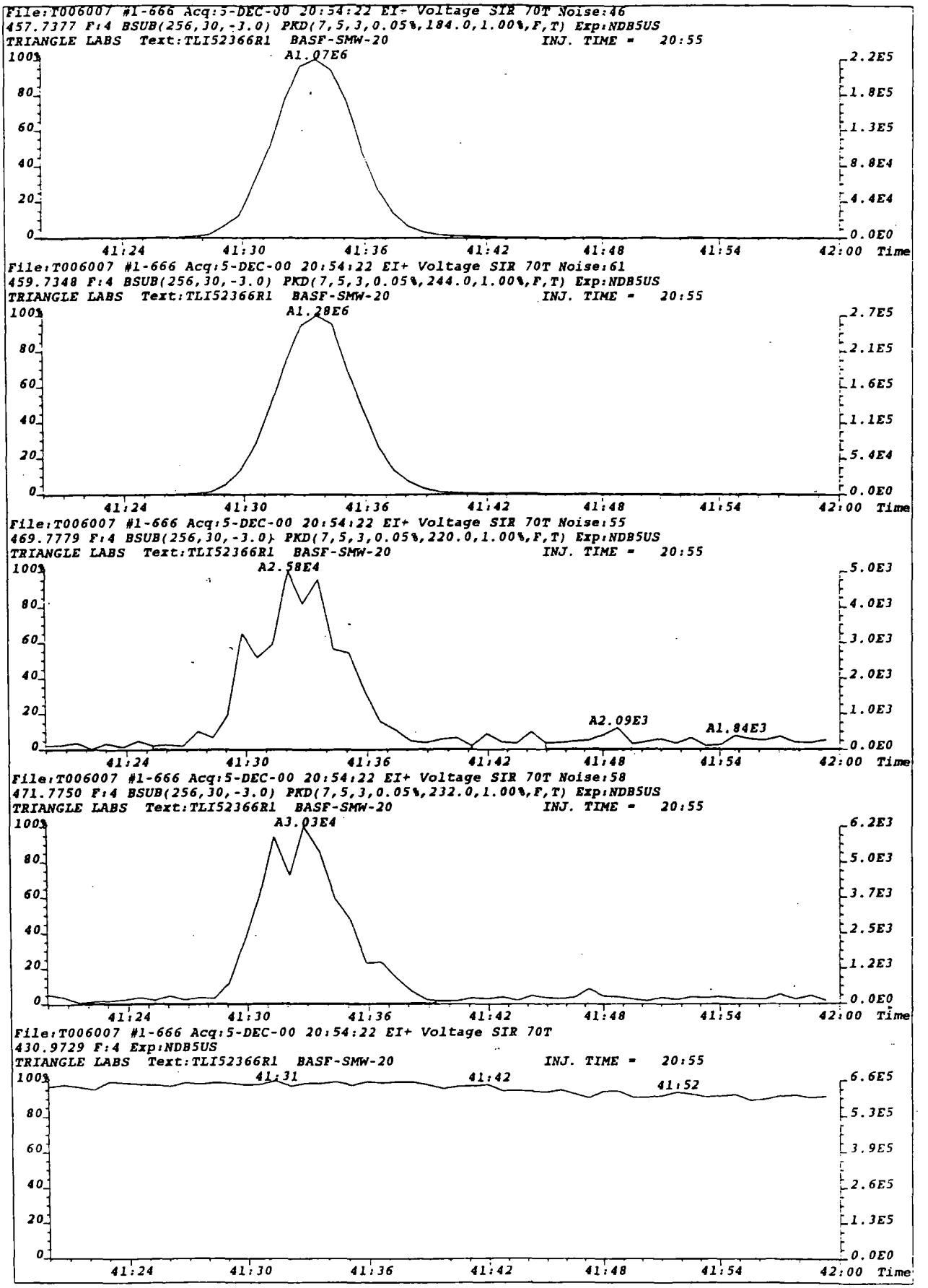


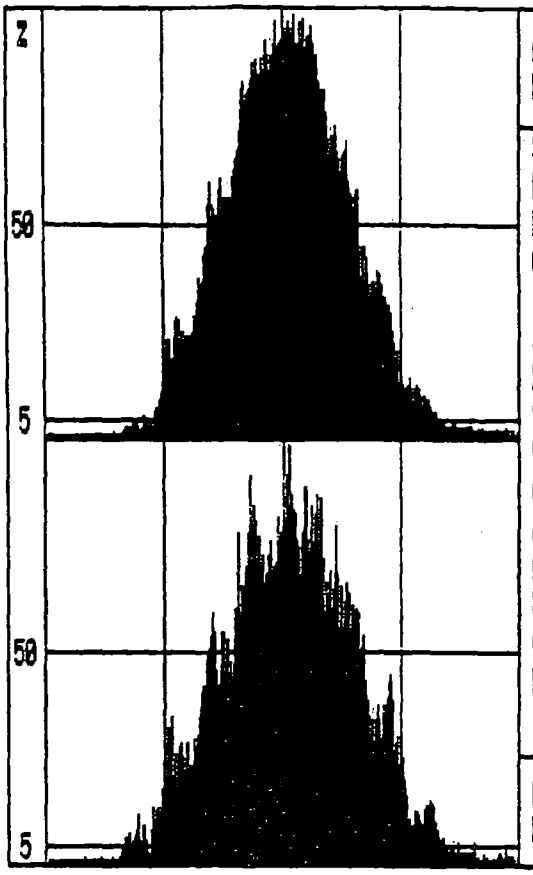
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55



File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55




File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:46
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,184.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A1.07E6
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:61
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,244.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A1.28E6
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:55
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,220.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A2.58E4
A2.09E3
A1.84E3
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T Noise:58
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
A3.03E4
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55
41:31
41:42
41:52
41:24
41:30
41:36
41:42
41:48
41:54
42:00
Time

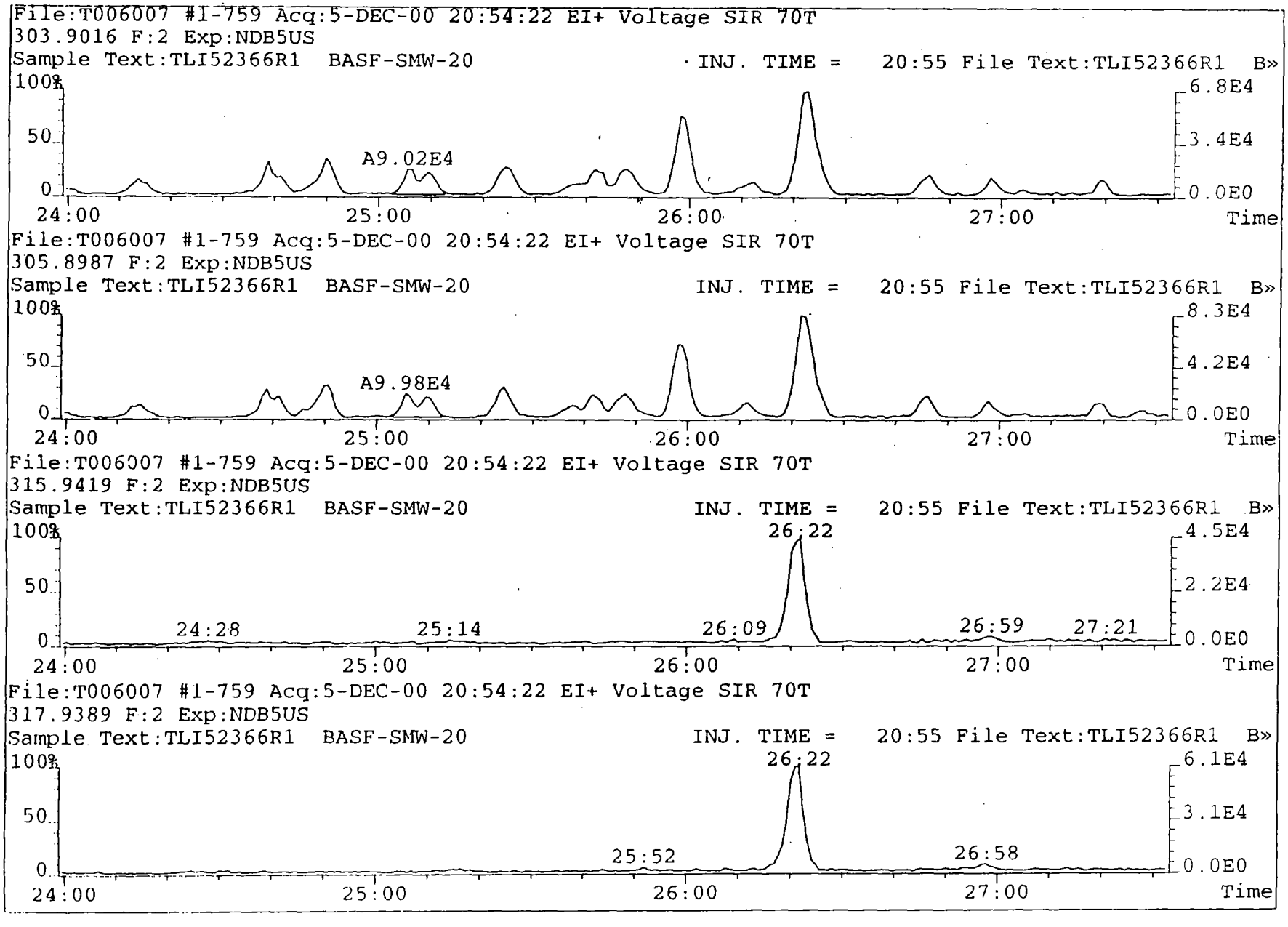


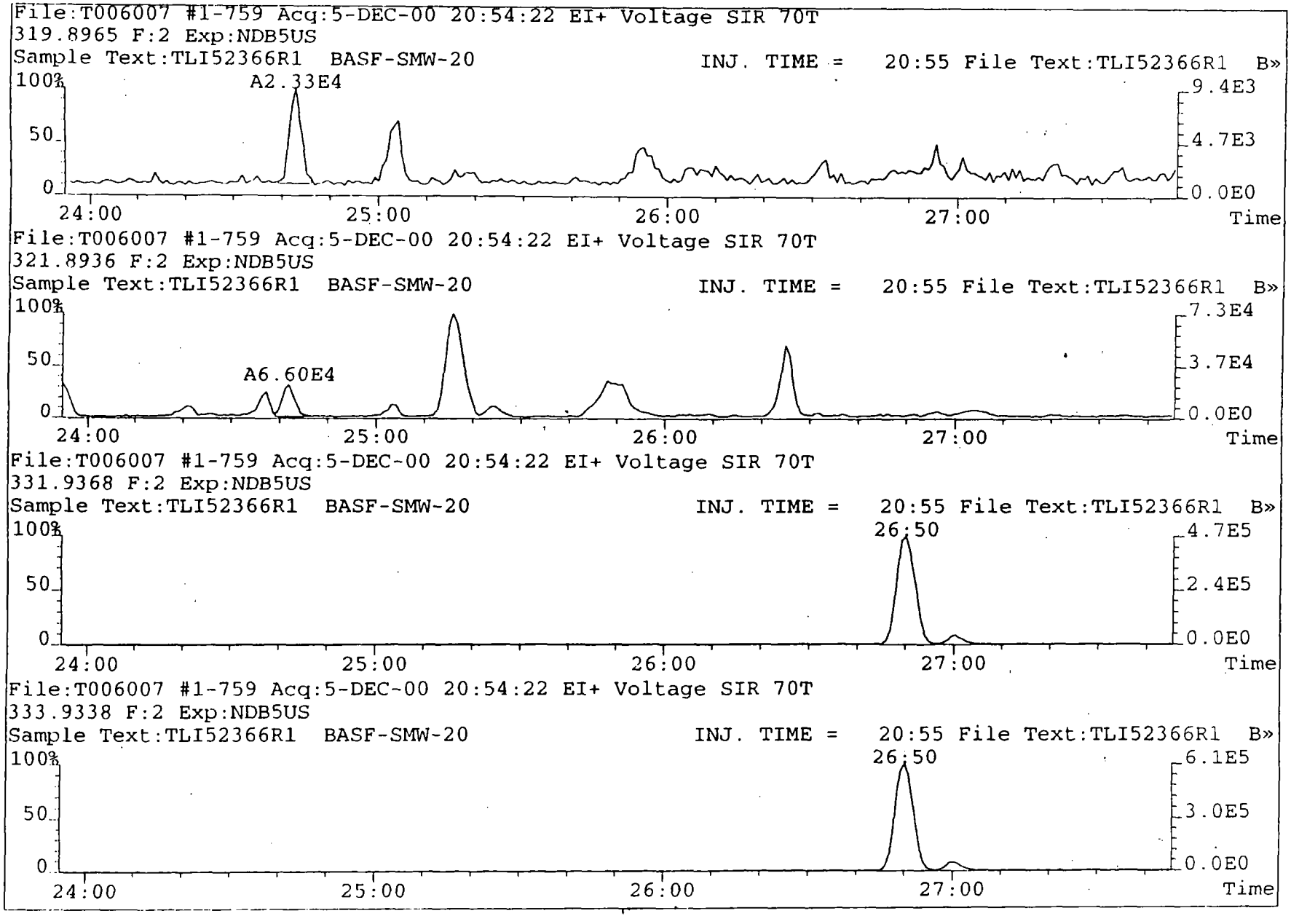
Channel	I	330.9792		Peak top	
Height	.68	volts	Span	200	ppm

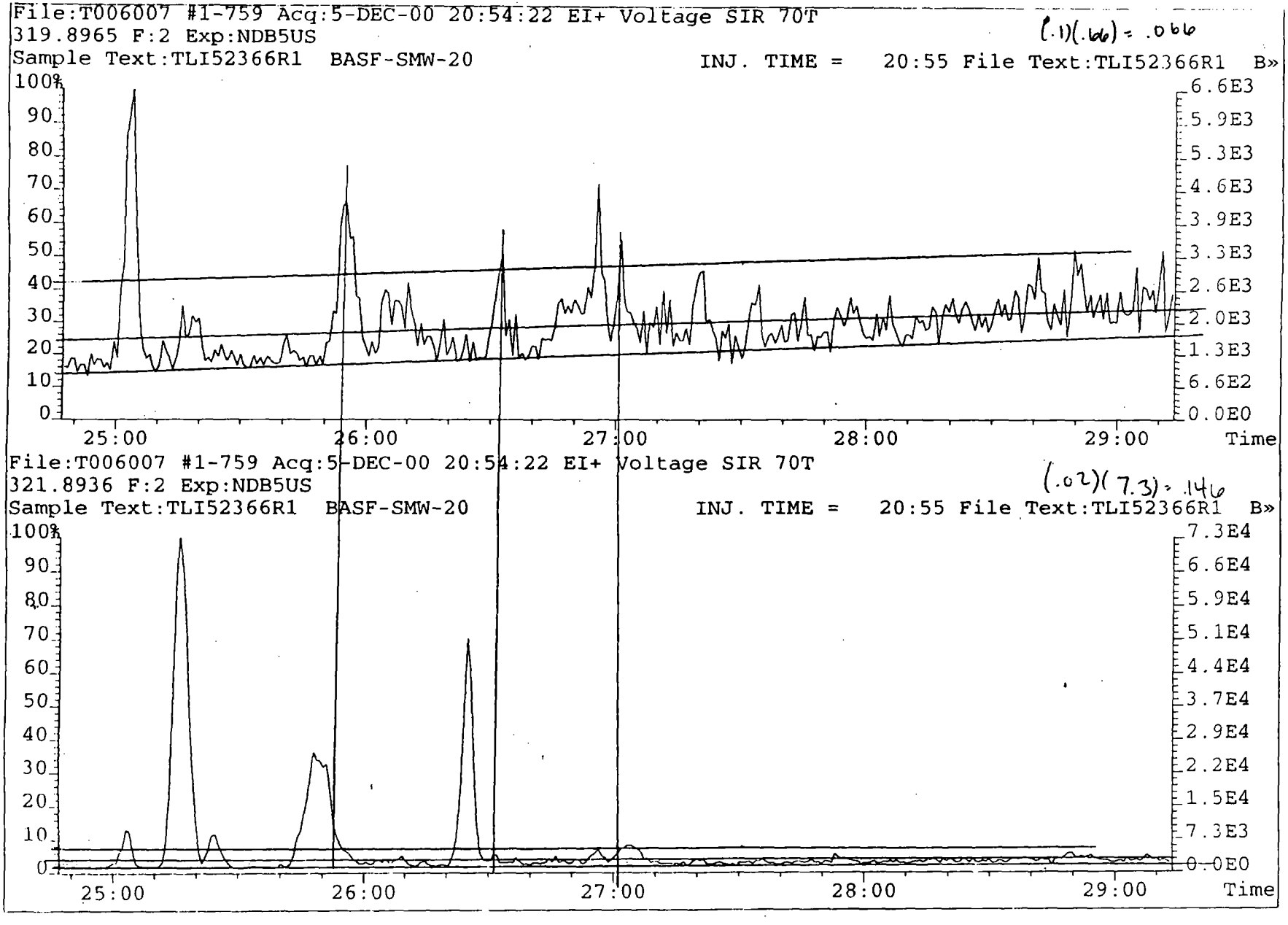
System file name	MOBSUS
Data file name	A:TD050003
Resolution	10000
Group number	2
Ionization mode	EI+
Switching	VOLTAGE
Ref. masses	292.9825, 416.9760

A	293	J	331	S	368
B	304	K	332	T	370
C	306	L	334	U	376
D	316	M	340	V	410
E	318	N	342		
F	320	O	352		
G	322	P	354		
H	328	Q	356		
I	331	R	358		

Ref. mass	416.9760			Peak top	
Height	.13	volts	Span	200	ppm


File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
303.9016 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
A9.02E4
6.8E4
3.4E4
0.0E0
24:00
25:00
26:00
27:00
Time
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
305.8987 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
A9.98E4
8.3E4
4.2E4
0.0E0
24:00
25:00
26:00
27:00
Time
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
315.9419 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
26:22
24:28
25:14
26:09
26:59
27:21
4.5E4
2.2E4
0.0E0
24:00
25:00
26:00
27:00
Time
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
317.9389 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
26:22
25:52
26:58
6.1E4
3.1E4
0.0E0
24:00
25:00
26:00
27:00
Time

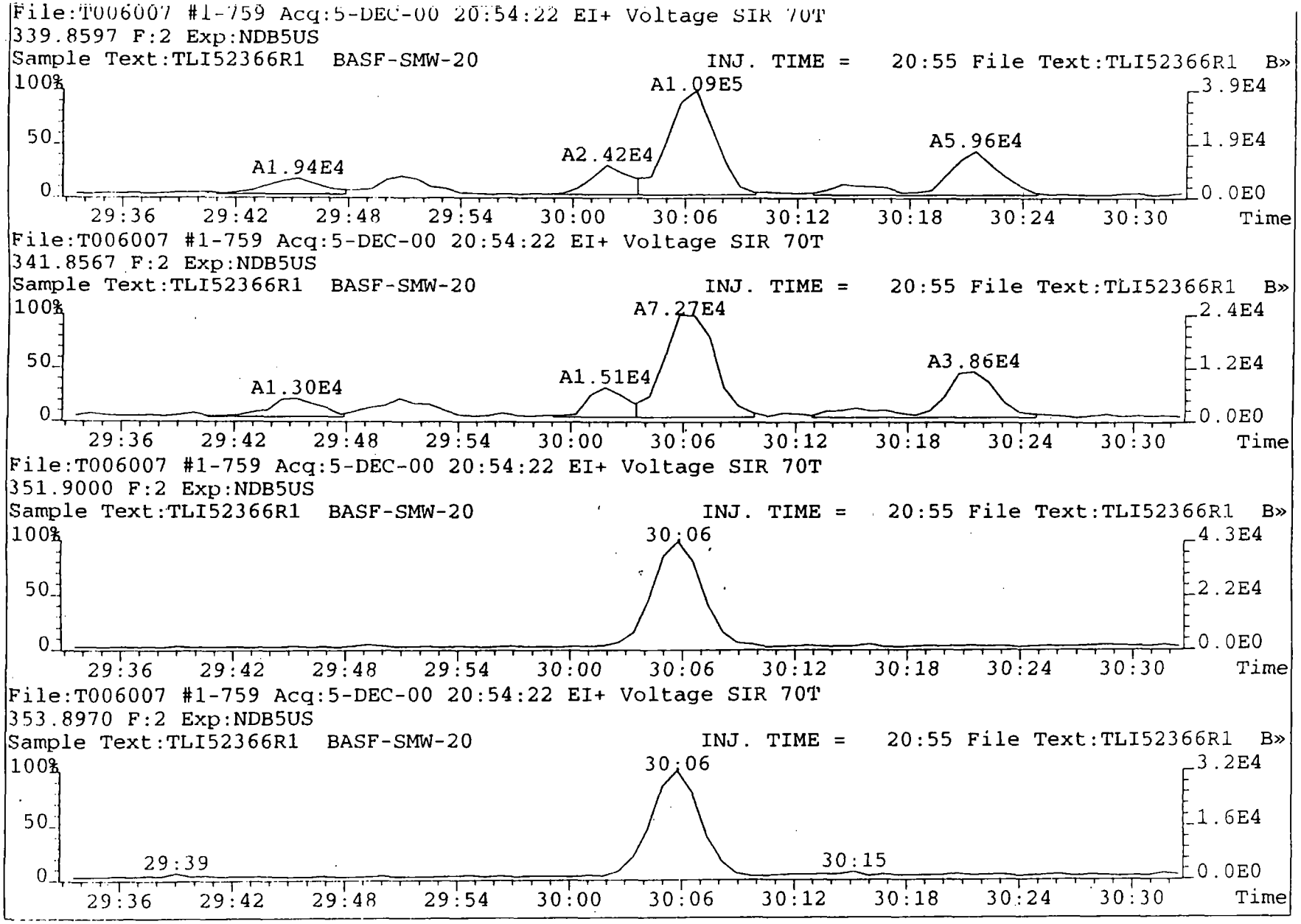

File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
319.8965 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
A2.33E4
9.4E3
4.7E3
0.0E0
24:00
25:00
26:00
27:00
Time
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
321.8936 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
A6.60E4
7.3E4
3.7E4
0.0E0
24:00
25:00
26:00
27:00
Time
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
331.9368 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
26:50
4.7E5
2.4E5
0.0E0
24:00
25:00
26:00
27:00
Time
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
333.9338 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
26:50
6.1E5
3.0E5
0.0E0
24:00
25:00
26:00
27:00
Time

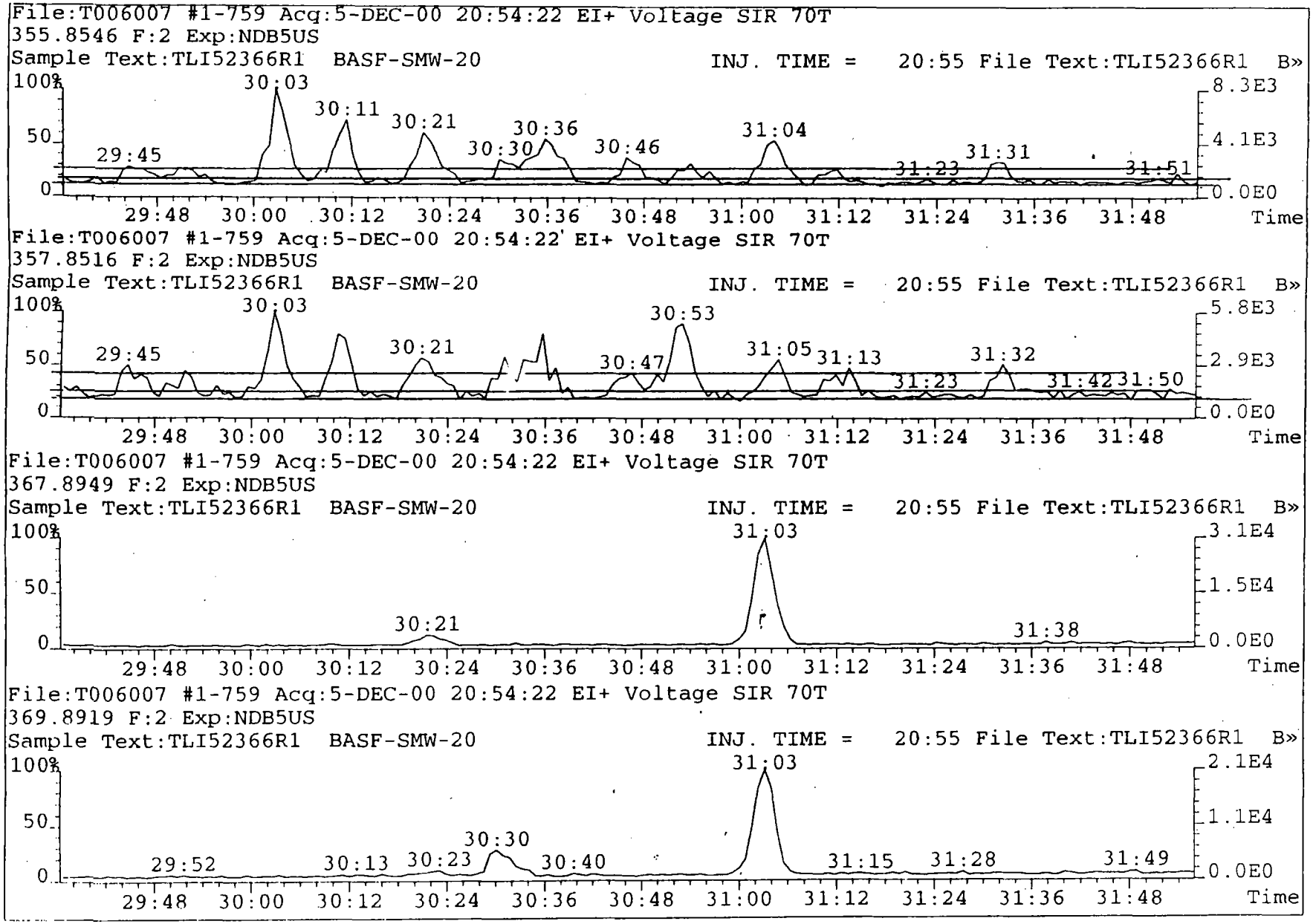


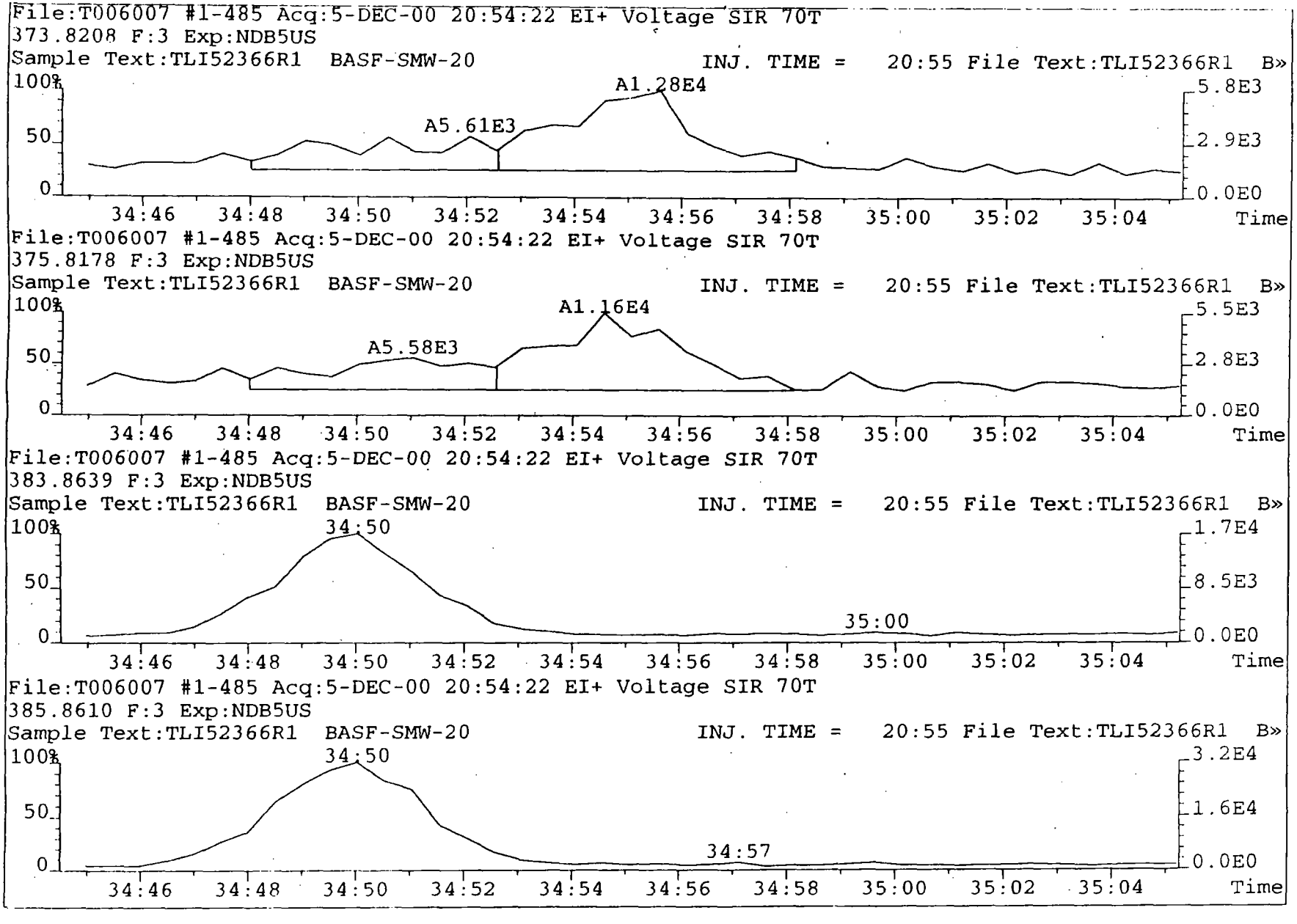
(.1)(.66) = .066

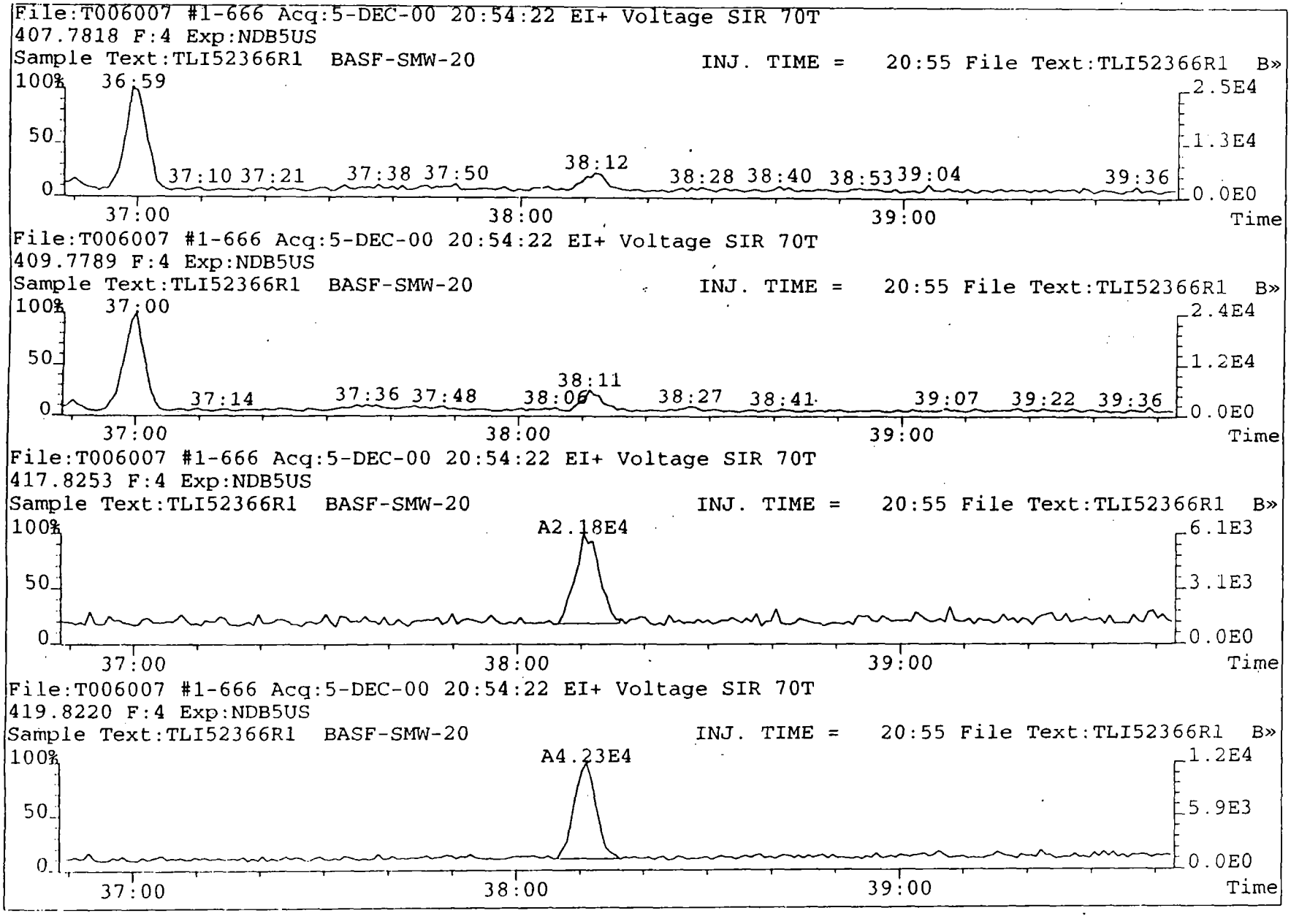
(.02)(7.3) = .146

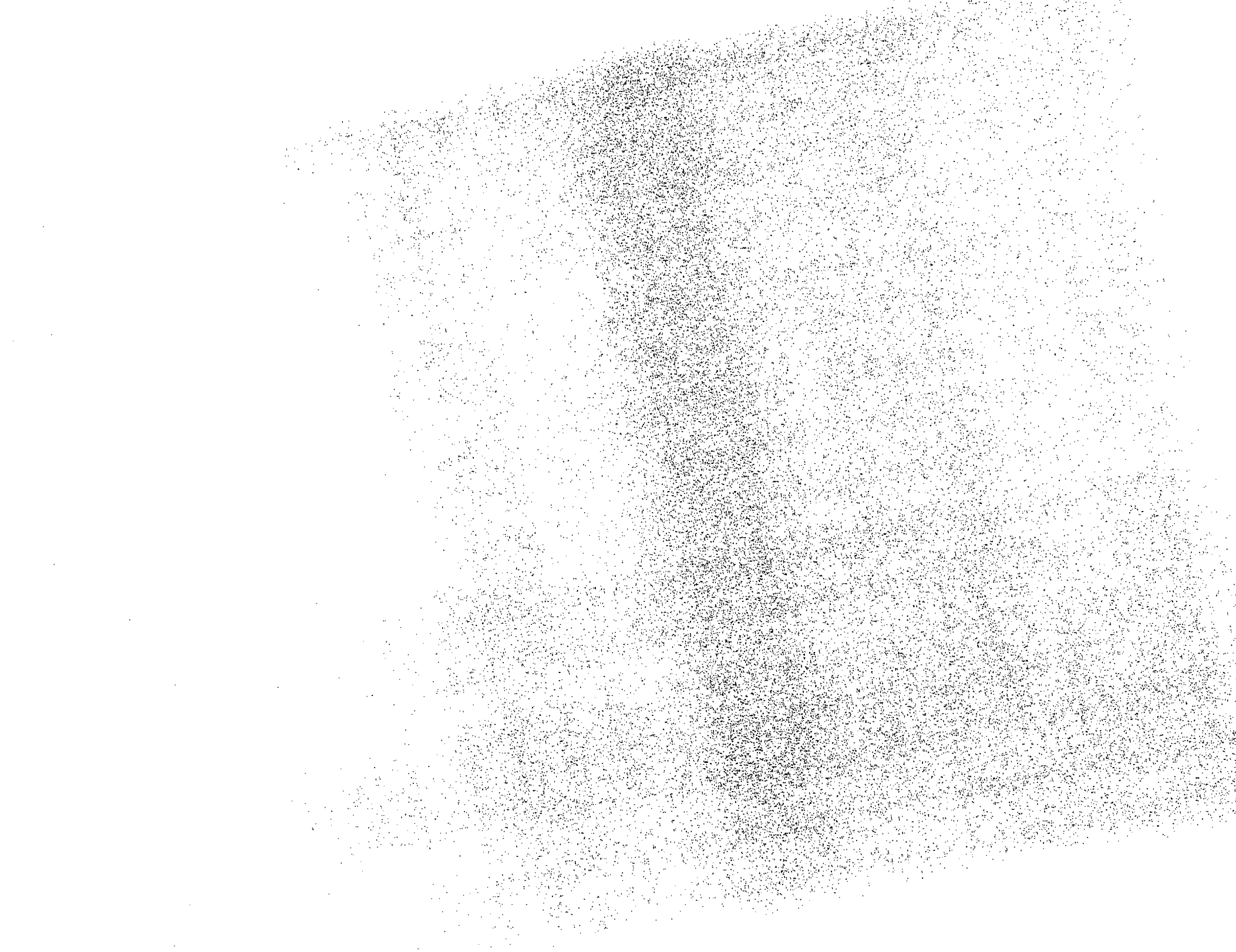
.066
.146
.212
JCA
12/13/00


File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
339.8597 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
A1.94E4
A2.42E4
A1.09E5
A5.96E4
3.9E4
1.9E4
0.0E0
29:36 29:42 29:48 29:54 30:00 30:06 30:12 30:18 30:24 30:30 Time
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
341.8567 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
A1.30E4
A1.51E4
A7.27E4
A3.86E4
2.4E4
1.2E4
0.0E0
29:36 29:42 29:48 29:54 30:00 30:06 30:12 30:18 30:24 30:30 Time
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
351.9000 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
30:06
4.3E4
2.2E4
0.0E0
29:36 29:42 29:48 29:54 30:00 30:06 30:12 30:18 30:24 30:30 Time
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
353.8970 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
30:06
29:39
30:15
3.2E4
1.6E4
0.0E0
29:36 29:42 29:48 29:54 30:00 30:06 30:12 30:18 30:24 30:30 Time


File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
355.8546 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1
29:45
30:03
30:11
30:21
30:30
30:36
30:46
31:04
31:23
31:31
31:51
8.3E3
4.1E3
0.0E0
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
357.8516 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1
29:45
30:03
30:21
30:47
30:53
31:05
31:13
31:23
31:32
31:42
31:50
5.8E3
2.9E3
0.0E0
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
367.8949 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1
30:21
31:03
31:38
3.1E4
1.5E4
0.0E0
File:T006007 #1-759 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
369.8919 F:2 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1
29:52
30:13
30:23
30:30
30:40
31:03
31:15
31:28
31:49
2.1E4
1.1E4
0.0E0
100%
50
0
29:48 30:00 30:12 30:24 30:36 30:48 31:00 31:12 31:24 31:36 31:48
Time


File:T006007 #1-485 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
373.8208 F:3 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
A5.61E3
A1.28E4
5.8E3
2.9E3
0.0E0
34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 35:02 35:04 Time
File:T006007 #1-485 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
375.8178 F:3 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
A5.58E3
A1.16E4
5.5E3
2.8E3
0.0E0
34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 35:02 35:04 Time
File:T006007 #1-485 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
383.8639 F:3 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
34:50
35:00
1.7E4
8.5E3
0.0E0
34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 35:02 35:04 Time
File:T006007 #1-485 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
385.8610 F:3 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20 INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
34:50
34:57
3.2E4
1.6E4
0.0E0
34:46 34:48 34:50 34:52 34:54 34:56 34:58 35:00 35:02 35:04 Time


File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
407.7818 F:4 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
36:59
37:10 37:21
37:38 37:50
38:12
38:28 38:40 38:53
39:04
39:36
2.5E4
1.3E4
0.0E0
37:00
38:00
39:00
Time
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
409.7789 F:4 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
37:00
37:14
37:36 37:48
38:06
38:11
38:27
38:41
39:07
39:22
39:36
2.4E4
1.2E4
0.0E0
37:00
38:00
39:00
Time
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
417.8253 F:4 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
A2.18E4
6.1E3
3.1E3
0.0E0
37:00
38:00
39:00
Time
File:T006007 #1-666 Acq:5-DEC-00 20:54:22 EI+ Voltage SIR 70T
419.8220 F:4 Exp:NDB5US
Sample Text:TLI52366R1 BASF-SMW-20
INJ. TIME = 20:55 File Text:TLI52366R1 B»
100%
50
0
A4.23E4
1.2E4
5.9E3
0.0E0
37:00
38:00
39:00
Time



TriMatrix, Inc.

TLI Project: **52366r1** Method 8290 TCDD/TCDF Analysis (DB-2
Client Sample: **BASF-SMW-20** Analysis File: **P004**

Client Project:	BASF-Malcolm Pirnie				
Sample Matrix:	WATER	Date Received:	11/17/2000	Spike File:	SPC2NF2
TLI ID:	274-99-8B	Date Extracted:	12/01/2000	ICal:	PF2O230
		Date Analyzed:	12/05/2000	ConCal:	P004403
Sample Size:	1.060 L	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T005998	% Lipid:	n/a
GC Column:	DB-225	Analyst:	DFS	% Solids:	n/a

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flag
2,3,7,8-TCDF	1860			0.78	23:58	

Internal Standard	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-2,3,7,8-TCDF	107	5.66	40%-130%	0.76	23:57	V

Recovery Standard	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,4-TCDD	0.82	22:48	

Data Reviewer: _____ 12/13/2000

C2NF_PSR v2.03.L

Triangle Laboratories, Inc.
801 Capitola Drive • Durham, North Carolina 27713
Phone: (919) 544-5729 • Fax: (919) 544-5491

Printed: 17:39 12/1

Initial ....Date...

Data Review By: JGH 12/13/00

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 P004412B.dbf
12/13/2000 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_2....	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					0.791-1.108				
304-306	DC	NL		Height			0.14	0.07	0.07				
				19:20	RO	0.52	1.01	0.44	0.35	0.990			
				19:39	RO	0.44	0.76	0.33	0.75	1.006			
				19:42	RO	2.84	0.78	1.25	0.44	1.009			
				19:52	RO	1.73	2.05	2.01	1.16	1.017			
				20:20		0.74	9.39	3.99	5.40	1.041			
				20:40	RO	1.56	2.00	1.76	1.13	1.058			
				20:44	RO	0.50	0.94	0.41	0.82	1.061			
				21:10	RO	0.52	16.00	6.96	13.28	1.084			
				21:18		0.71	4.35	1.81	2.54	1.090			
				21:26		0.66	22.74	9.03	13.71	1.097			
				21:36		0.68	7.08	2.86	4.22	1.106			
	DC	WH		21:59	RO	1.12	11.98			1.125			
	DC	WH		22:13	RO	0.04	0.34			1.137			
	DC	WH		22:30		0.76	36.97			1.152			
	DC	WH		22:43	RO	1.23	8.89			1.163			
	DC	WH		23:01	RO	1.75	6.44			1.178			
	DC	WH		23:16	RO	0.97	0.58			1.191			
	DC	WH		23:31	RO	0.48	3.08			1.204			
	DC	WH		23:51	RO	0.22	3.54			1.221			
KMN				23:58		0.78	41.90	18.40	23.50	1.227	2378-TCDF		AN
	DC	WH		24:14		0.69	9.86			1.241			
	DC	WH		24:24	RO	0.97	0.51			1.249			
	DC	WH		24:34	RO	0.18	1.49			1.258			
	DC	WH		24:41	RO	0.91	8.39			1.264			
	DC	WH		24:52		0.68	4.15			1.273			
	DC	WH		25:28	RO	0.30	1.79			1.304			
	DC	WH		26:20	RO	1.85	3.12			1.348			
	DC	WH		26:35		0.67	35.58			1.361			
304-306			12	Peaks			109.00						
13C12-TCDF				0.65-0.89					0.958-1.042				
316-318	DC	NL		Height			0.26	0.14	0.12				
				18:52	RO	0.39	0.30	0.13	0.33	0.966			
	DC	SN		18:57	RO	0.62	0.37			0.970			
				19:02	RO	0.61	1.24	0.54	0.89	0.974			
				19:14	RO	0.47	0.64	0.28	0.59	0.985			
				19:18	RO	3.33	0.32	0.60	0.18	0.988			
N				19:32		0.74	155.82	66.05	89.77	1.000			
	DC	SN		19:44	RO	4.00	0.12			1.010			
	DC	SN		19:48	RO	0.34	0.30			1.014			
	DC	SN		19:53	RO	0.58	0.32			1.018			
	DC	SN		19:57		0.70	0.63			1.021			

Compound:

M_2....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
	DC	SN		20:01	RO	1.67	0.11			1.025			
				20:17	RO	2.39	0.41	0.55	0.23	1.038			
				20:20	RO	0.34	1.20	0.52	1.52	1.041			
	DC	WH		20:38		0.78	1.16			1.056			
	DC	WH		20:42	RO	0.48	2.99			1.060			
	DC	WH		20:54	RO	1.50	0.25			1.070			
	DC	WH		21:00	RO	2.91	0.19			1.075			
	DC	WH		21:05	RO	0.41	0.16			1.079			
	DC	WH		21:23	RO	7.33	0.21			1.095			
	DC	WH		21:33	RO	0.93	1.68			1.103			
	DC	WH		21:46	RO	0.62	0.92			1.114			
	DC	WH		22:11		0.79	0.93			1.136			
	DC	WH		22:13	RO	4.60	0.18			1.142			
	DC	WH		22:23	RO	1.90	0.53			1.146			
	DC	WH		22:38	RO	1.21	0.69			1.159			
	DC	WH		22:46	RO	1.92	1.15			1.166			
	DC	WH		22:53	RO	2.19	0.92			1.172			
	DC	WH		23:11		0.89	2.32			1.187			
	DC	WH		23:19	RO	6.14	0.12			1.194			
	DC	WH		23:28	RO	0.92	0.65			1.201			
	DC	WH		23:32	RO	1.44	0.28			1.205			
KN				23:57		0.76	44.78	19.39	25.39	1.226	13C12-2378-TCDF	ISO	
						Height	9.00	3.66	5.34				
	DC	WH		24:13		0.66	0.48			1.240			
	DC	WH		24:41	RO	0.27	0.55			1.264			
	DC	WH		24:45		0.73	0.52			1.267			
	DC	WH		24:51	RO	0.33	0.11			1.272			
	DC	WH		24:55	RO	2.90	0.18			1.276			
	DC	WH		25:05	RO	6.33	0.85			1.284			
	DC	WH		25:17	RO	5.52	0.58			1.294			
	DC	WH		25:34	RO	0.18	1.68			1.309			
	DC	WH		25:40	RO	0.33	1.66			1.314			
	DC	WH		25:48	RO	1.69	0.23			1.321			
	DC	WH		25:51	RO	1.10	0.37			1.323			
	DC	WH		26:04	RO	1.34	2.16			1.334			
	DC	WH		26:14		0.72	0.93			1.343			
	DC	WH		26:29	RO	1.84	1.35			1.356			
	DC	WH		26:37	RO	0.64	1.08			1.363			
	DC	WH		26:43	RO	1.58	4.14			1.368			
316-318			8	Peaks			204.71						

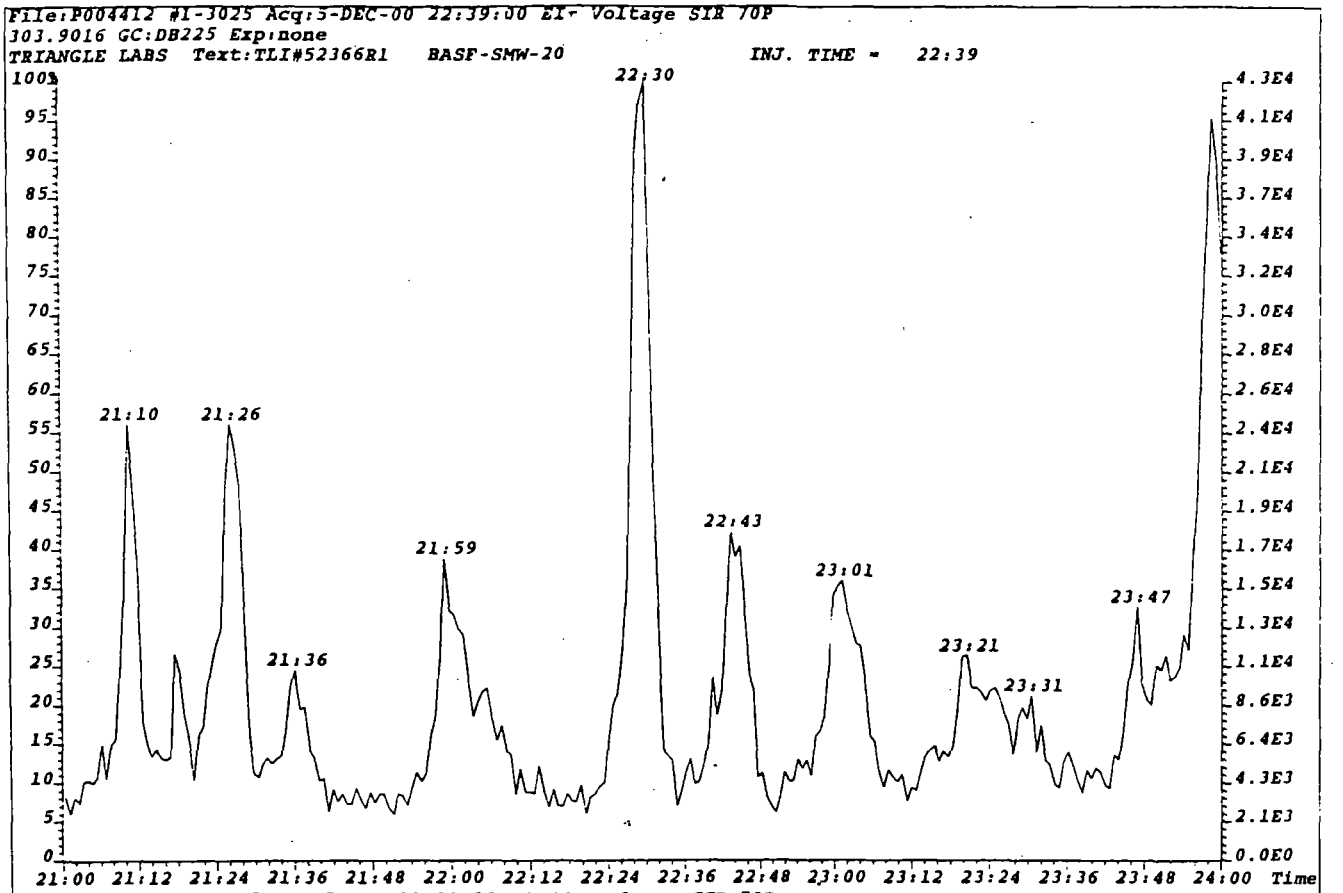
---------- Above: TCDF / TCDD Follows ----------

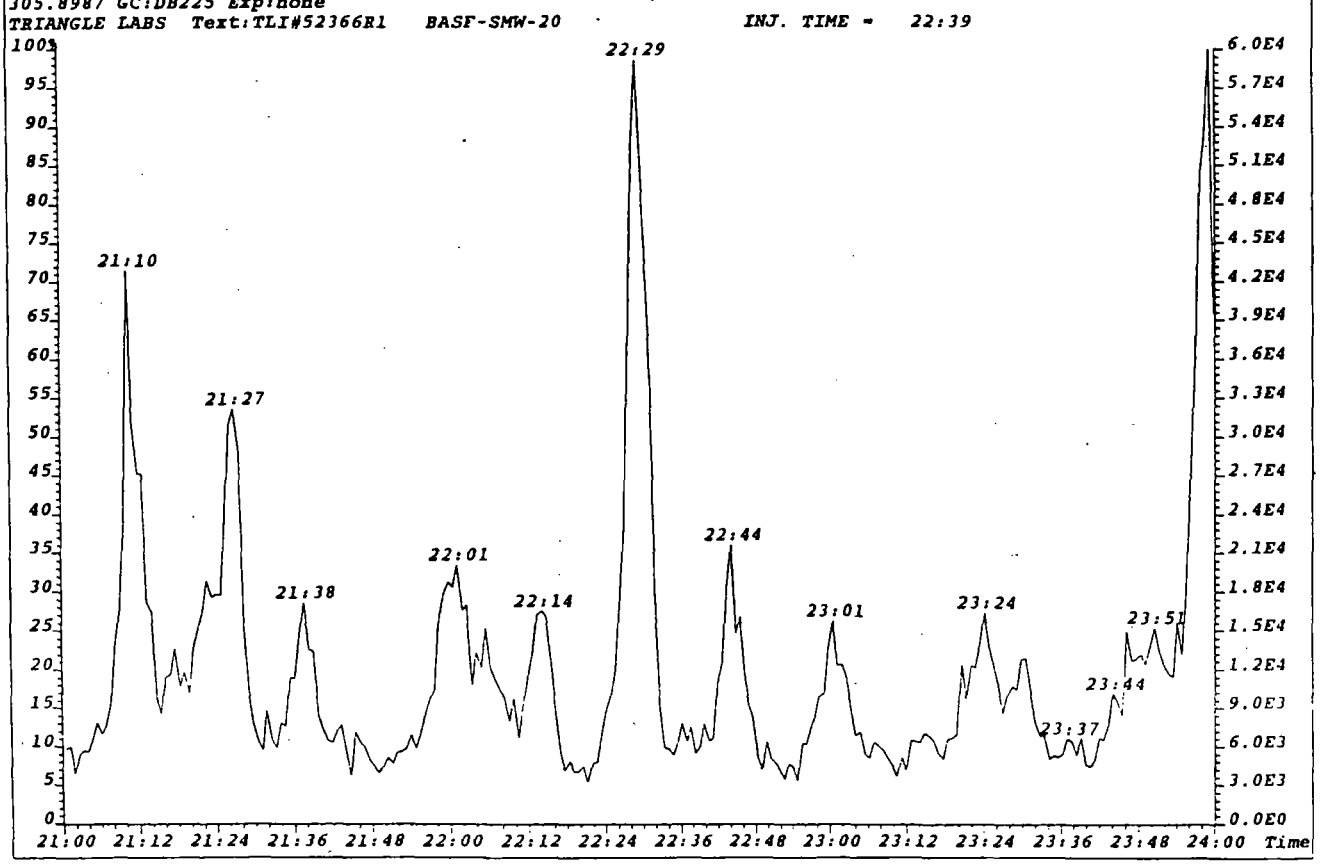
13C12-TCDD				0.65-0.89						0.910-1.090			
332-334	DC	NL				Height	0.30	0.20	0.10				
	DC	WL		19:50	RO	0.35	0.21			0.870			
	DC	WL		19:57	RO	1.06	1.27			0.875			
	DC	WL		20:11	RO	4.13	0.41			0.885			
	DC	WL		20:38	RO	0.62	0.78			0.905			
	DC	WL		20:43	RO	6.63	0.14			0.909			
MN				22:29		0.84	29.00	13.20	15.80	0.986	13C12-2378-TCDD	IS1	
						Height	6.73	2.92	3.81				

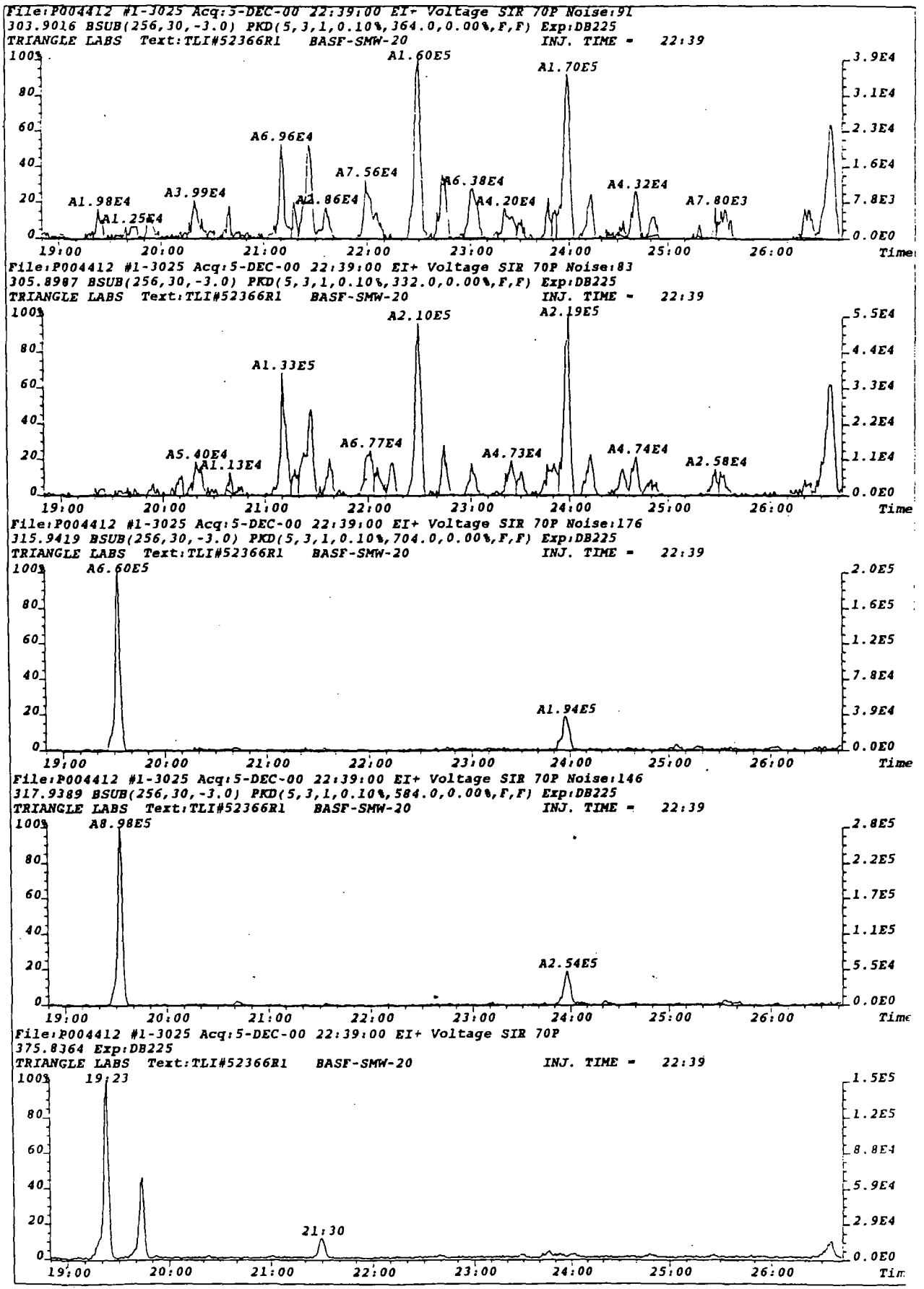
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
N				22:48		0.82	505.45	227.96	277.49	1.000	13C12-1234-TCDD	RS1	
				23:07	RO	1.36	0.50	0.38	0.28	1.014			
	DC	SN		23:27	RO	2.20	0.18			1.029			
				23:41		0.84	1.03	0.47	0.56	1.039			
	DC	SN		23:53	RO	0.92	0.23			1.048			
				24:04	RO	1.39	1.84	1.45	1.04	1.056			
				24:21	RO	1.12	1.52	0.96	0.86	1.068			
				24:33	RO	1.82	0.99	1.02	0.56	1.077			
				24:47		0.69	4.61	1.88	2.73	1.087			
	DC	WH		25:07		0.77	4.86			1.102			
	DC	WH		25:12	RO	1.96	2.16			1.105			
	DC	WH		25:26		0.84	22.88			1.115			
	DC	WH		25:48	RO	1.46	0.46			1.132			
330-334			8 Peaks				544.94						

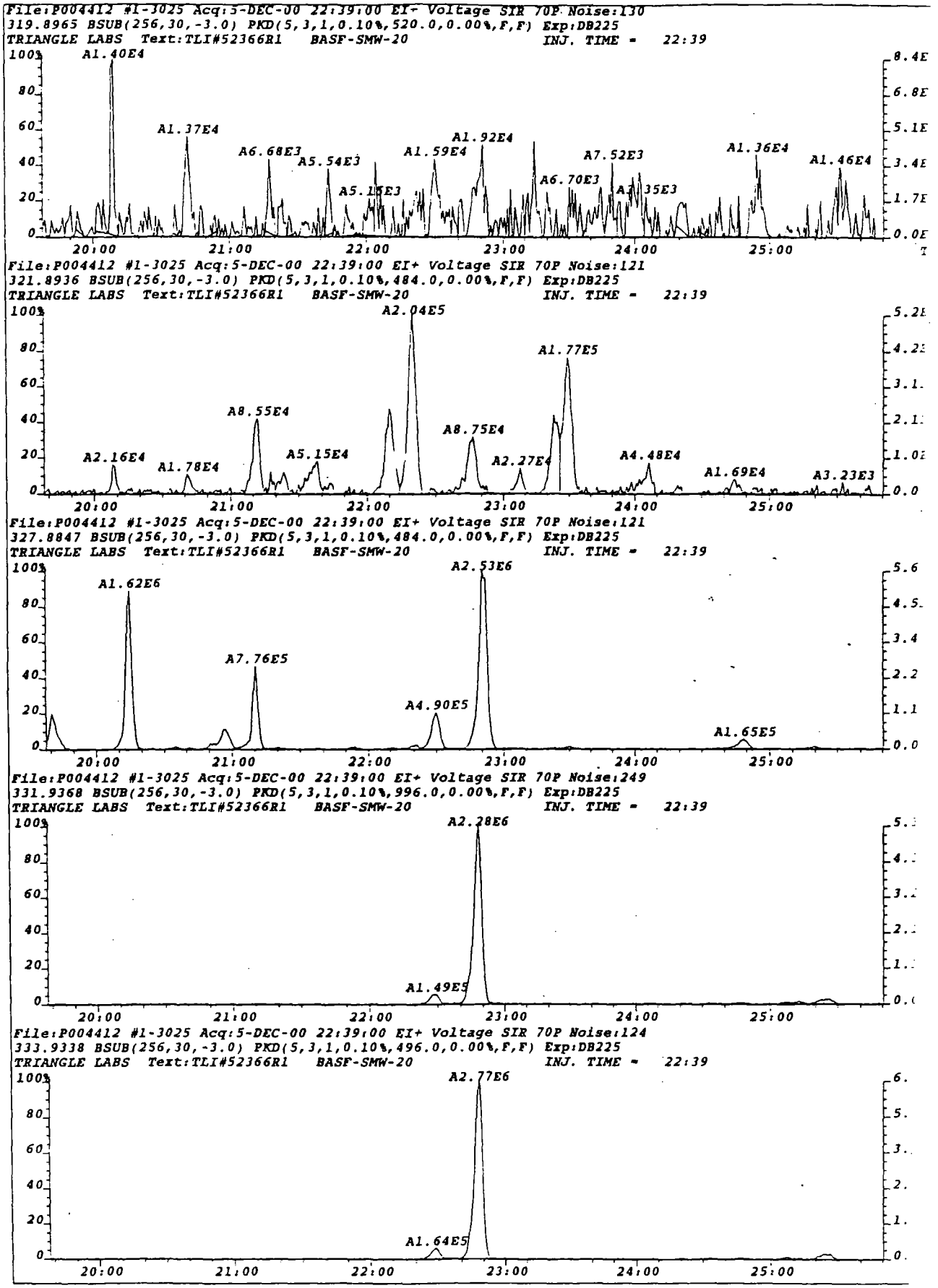
Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside 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

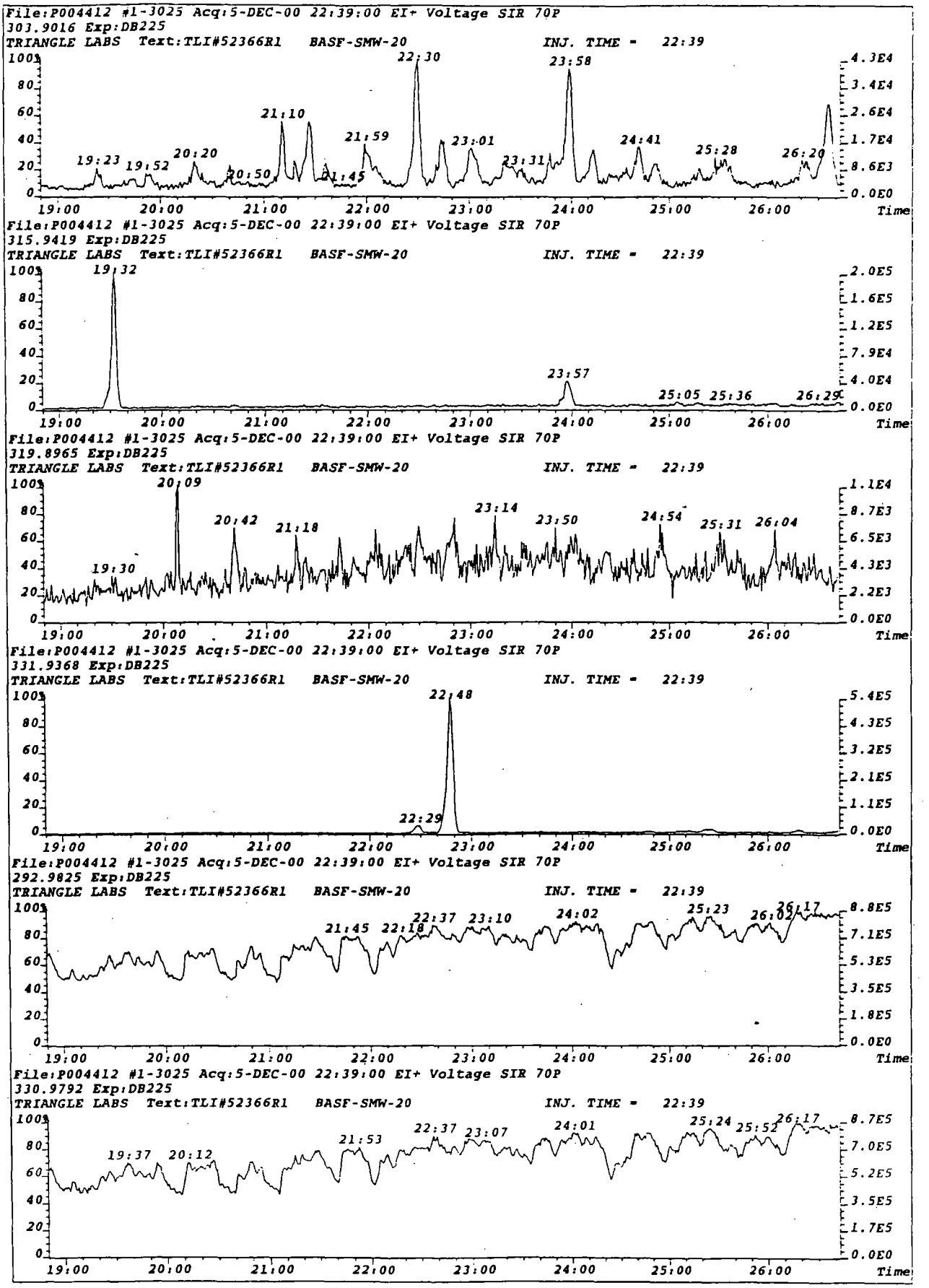
*** End of Report ***

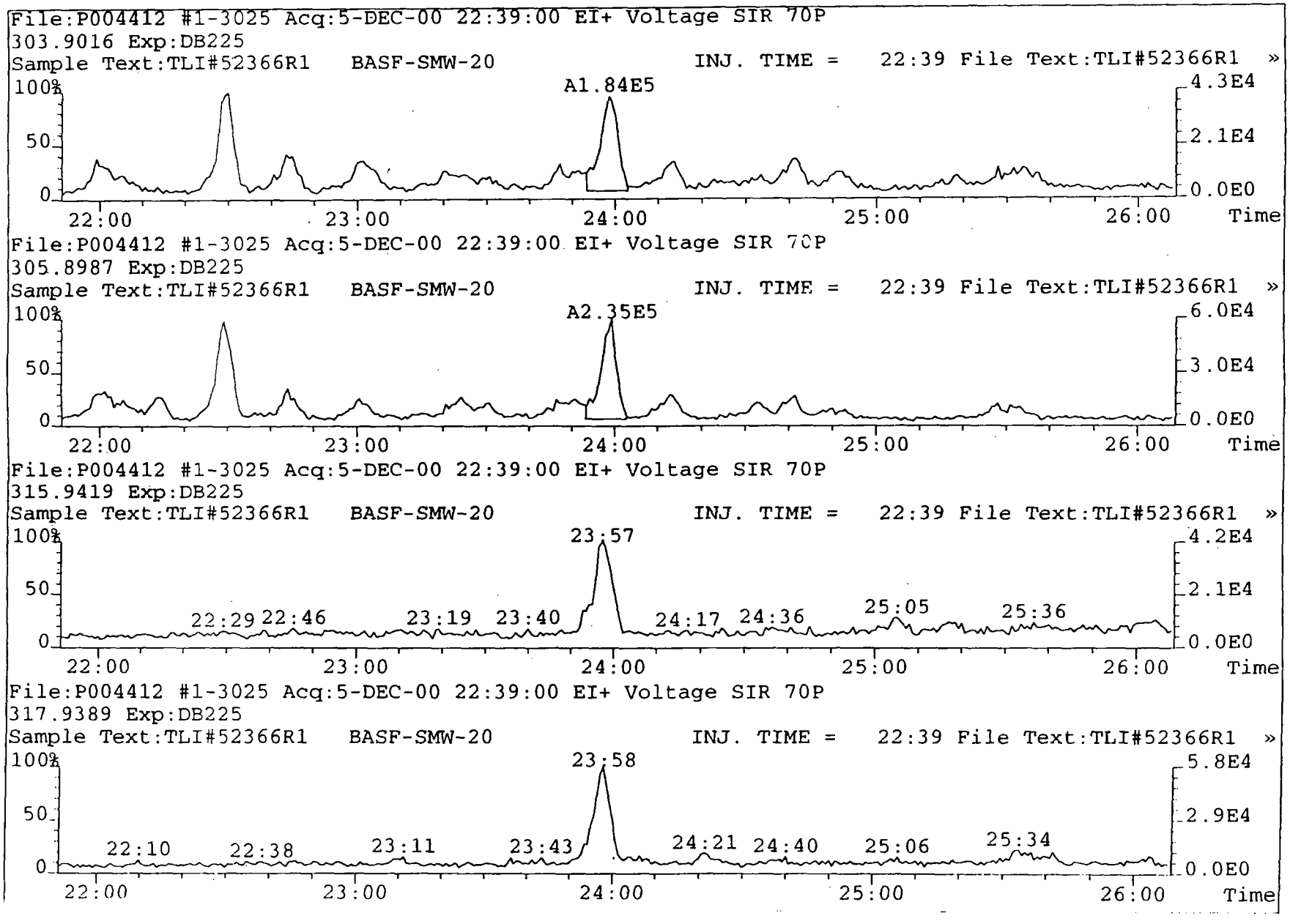

File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P
303.9016 GC:DB225 Exp:none
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20
INJ. TIME = 22:39
21:10
21:26
21:36
21:59
22:30
22:43
23:01
23:21
23:31
23:47
21:00 21:12 21:24 21:36 21:48 22:00 22:12 22:24 22:36 22:48 23:00 23:12 23:24 23:36 23:48 24:00 Time

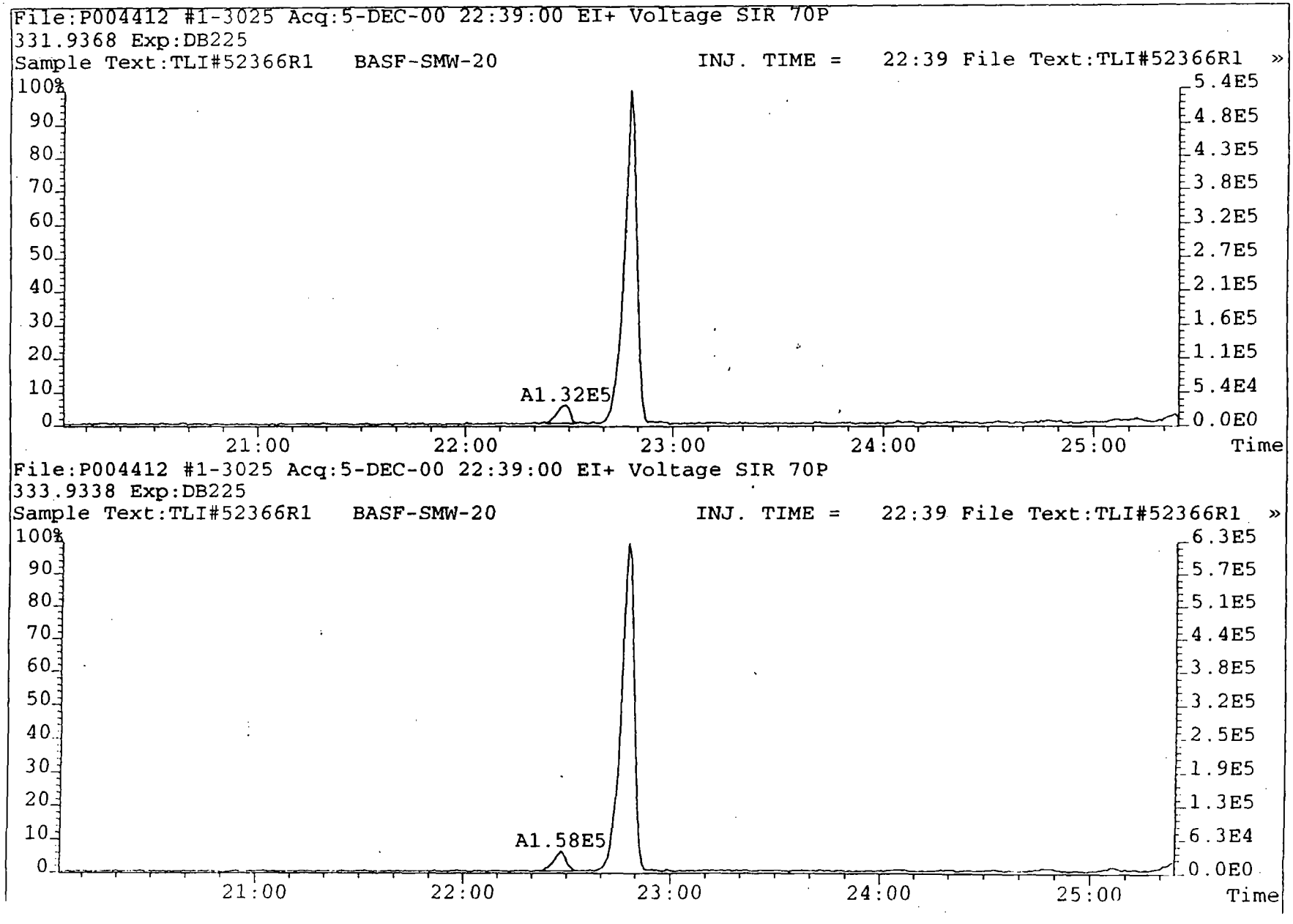

File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P
305.8987 GC:DB225 Exp:none
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20
INJ. TIME = 22:39
21:10
21:27
21:38
22:01
22:14
22:29
22:44
23:01
23:24
23:37
23:44
23:51
21:00 21:12 21:24 21:36 21:48 22:00 22:12 22:24 22:36 22:48 23:00 23:12 23:24 23:36 23:48 24:00 Time

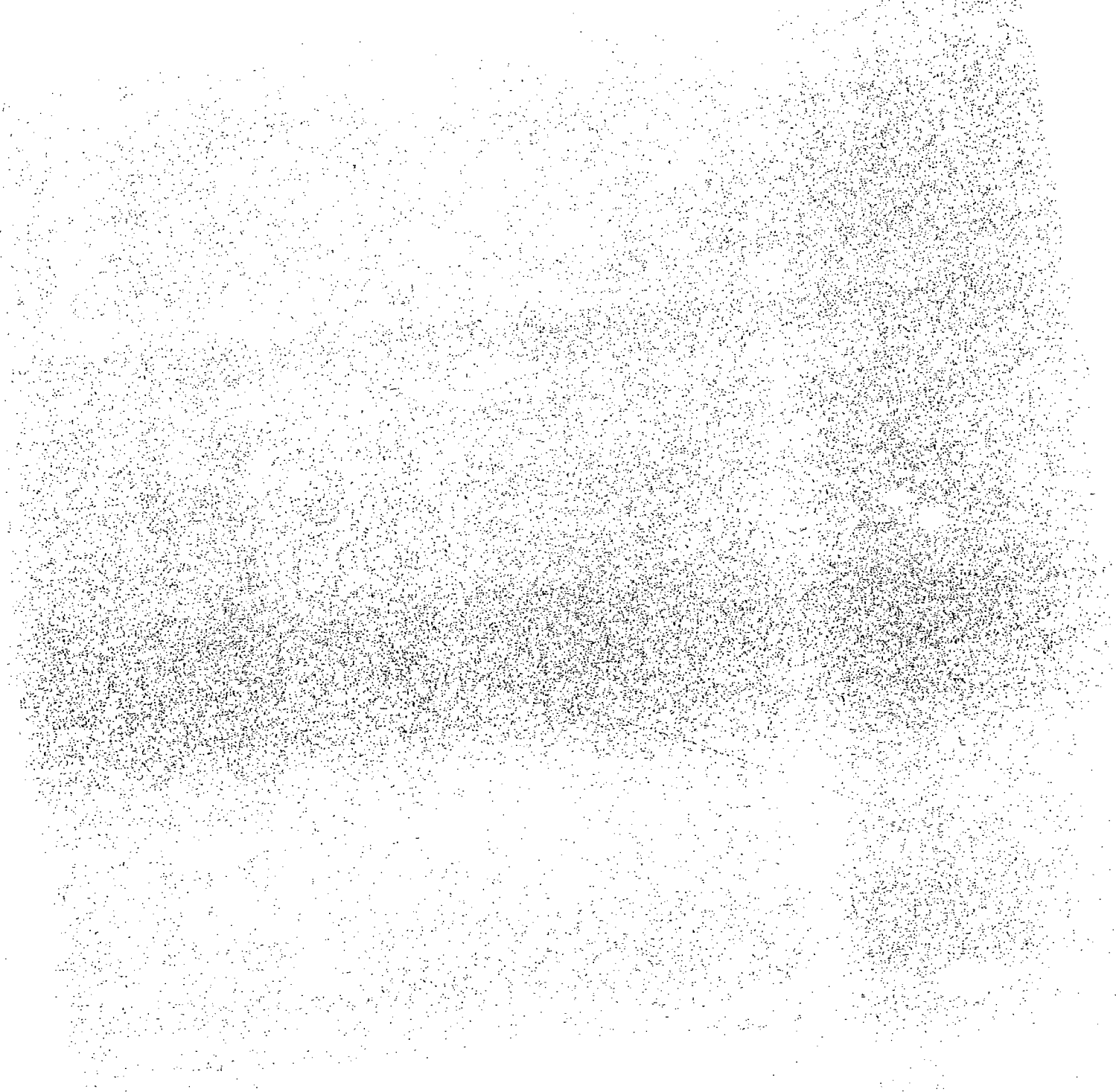

File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P Noise:91
303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,364.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
A1.60E5
A1.70E5
A6.96E4
A7.56E4
A6.38E4
A4.32E4
A3.99E4
A1.98E4
A1.25E4
A2.86E4
A4.20E4
A7.80E3
Time
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P Noise:83
305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,332.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
A2.10E5
A2.19E5
A1.33E5
A6.77E4
A5.40E4
A1.13E4
A4.73E4
A4.74E4
A2.58E4
Time
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P Noise:176
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,704.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
A6.60E5
A1.94E5
Time
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P Noise:146
317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,584.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
A8.98E5
A2.54E5
Time
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P
375.8364 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
19:23
21:30
Tim


File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P Noise:130
319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,520.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
A1.40E4
A1.37E4
A6.68E3
A5.54E3
A5.15E3
A1.59E4
A1.92E4
A6.70E3
A7.52E3
A7.35E3
A1.36E4
A1.46E4
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P Noise:121
321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,484.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
A2.04E5
A1.77E5
A8.55E4
A8.75E4
A2.16E4
A1.78E4
A5.15E4
A2.27E4
A4.48E4
A1.69E4
A3.23E3
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P Noise:121
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,484.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
A2.53E6
A1.62E6
A7.76E5
A4.90E5
A1.65E5
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P Noise:249
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,996.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
A2.28E6
A1.49E5
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P Noise:124
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,496.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
A2.77E6
A1.64E5
20:00
21:00
22:00
23:00
24:00
25:00


File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P
303.9016 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
19:23 19:52 20:20 20:50 21:10 21:45 21:59 22:30 23:01 23:31 23:58 24:41 25:28 26:20
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P
315.9419 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
19:32 23:57 25:05 25:36 26:29
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P
319.8965 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
19:30 20:09 20:42 21:18 23:14 23:50 24:54 25:31 26:04
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P
331.9368 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
22:29 22:48
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P
292.9825 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
21:45 22:18 22:37 23:10 24:02 25:23 26:02 26:17
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P
330.9792 Exp:DB225
TRIANGLE LABS Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39
19:37 20:12 21:53 22:37 23:07 24:01 25:24 25:52 26:17
Time


File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P
303.9016 Exp:DB225
Sample Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39 File Text:TLI#52366R1
A1.84E5
100%
50
0
4.3E4
2.1E4
0.0E0
22:00
23:00
24:00
25:00
26:00
Time
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P
305.8987 Exp:DB225
Sample Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39 File Text:TLI#52366R1
A2.35E5
6.0E4
3.0E4
0.0E0
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P
315.9419 Exp:DB225
Sample Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39 File Text:TLI#52366R1
23:57
4.2E4
2.1E4
0.0E0
22:29
22:46
23:19
23:40
24:17
24:36
25:05
25:36
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P
317.9389 Exp:DB225
Sample Text:TLI#52366R1 BASF-SMW-20 INJ. TIME = 22:39 File Text:TLI#52366R1
23:58
5.8E4
2.9E4
0.0E0
22:10
22:38
23:11
23:43
24:21
24:40
25:06
25:34


File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P
331.9368 Exp:DB225
Sample Text:TLI#52366R1 BASF-SMW-20
INJ. TIME = 22:39 File Text:TLI#52366R1
100%
90
80
70
60
50
40
30
20
10
0
5.4E5
4.8E5
4.3E5
3.8E5
3.2E5
2.7E5
2.1E5
1.6E5
1.1E5
5.4E4
0.0E0
A1.32E5
21:00
22:00
23:00
24:00
25:00
Time
File:P004412 #1-3025 Acq:5-DEC-00 22:39:00 EI+ Voltage SIR 70P
333.9338 Exp:DB225
Sample Text:TLI#52366R1 BASF-SMW-20
INJ. TIME = 22:39 File Text:TLI#52366R1
100%
90
80
70
60
50
40
30
20
10
0
6.3E5
5.7E5
5.1E5
4.4E5
3.8E5
3.2E5
2.5E5
1.9E5
1.3E5
6.3E4
0.0E0
A1.58E5
21:00
22:00
23:00
24:00
25:00
Time



TriMatrix, Inc.

TLI Project: **52366r1** Method 8290 PCDD/PCDF Analysis (
Client Sample: **TLI LCS** Analysis File: **T0060**

Client Project:	BASF-Malcolm Pirnie				
Sample Matrix:	WATER	Date Received:	/ /	Spike File:	SPMIT32S
TLI ID:	TLI LCS	Date Extracted:	12/01/2000	ICal:	TF57140
		Date Analyzed:	12/05/2000	ConCal:	T005996
Sample Size:	1.000 L	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T005998	% Lipid:	n/a
GC Column:	DB-5	Analyst:	BWL	% Solids:	n/a

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	426			0.79	26:49	
1,2,3,7,8-PeCDD	1930			1.55	30:57	
1,2,3,4,7,8-HxCDD	2260			1.24	34:04	
1,2,3,6,7,8-HxCDD	2070			1.22	34:10	
1,2,3,7,8,9-HxCDD	2250			1.22	34:29	
1,2,3,4,6,7,8-HpCDD	2140			1.03	37:35	
1,2,3,4,6,7,8,9-OCDD	3920			0.85	41:31	
2,3,7,8-TCDF	402			0.81	26:08	
1,2,3,7,8-PeCDF	2110			1.49	29:57	
2,3,4,7,8-PeCDF	2200			1.49	30:37	
1,2,3,4,7,8-HxCDF	2220			1.26	33:21	
1,2,3,6,7,8-HxCDF	2150			1.27	33:27	
2,3,4,6,7,8-HxCDF	2540			1.27	33:57	
1,2,3,7,8,9-HxCDF	2410			1.28	34:46	
1,2,3,4,6,7,8-HpCDF	2100			1.07	36:29	
1,2,3,4,7,8,9-HpCDF	2330			1.06	38:08	
1,2,3,4,6,7,8,9-OCDF	3660			0.90	41:44	

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	843	42.1	40%-130%	0.75	26:07	
$^{13}C_{12}$-2,3,7,8-TCDD	758	37.9	40%-130%	0.81	26:48	V
$^{13}C_{12}$-1,2,3,7,8-PeCDF	895	44.8	40%-130%	1.50	29:56	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1090	54.4	40%-130%	1.47	30:56	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	785	39.3	40%-130%	0.51	33:26	V
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	921	46.0	40%-130%	1.20	34:09	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	821	41.0	25%-130%	0.43	36:29	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	955	47.8	25%-130%	1.06	37:35	
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	1800	44.9	25%-130%	0.86	41:30	

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TLI Project: **52366r1** Method 8290 PCDD/PCDF Analysis
Client Sample: **TLI LCS** Analysis File: **T006(**

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-2,3,4,7,8-PeCDF	967	48.4	40%-130%	1.47	30:36	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	804	40.2	40%-130%	0.50	33:20	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	925	46.2	40%-130%	1.20	34:03	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	891	44.6	25%-130%	0.43	38:07	

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flag
$^{37}Cl_4$-2,3,7,8-TCDD	92.4	46.2	40%-130%	26:49	

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	972	48.6	40%-130%	0.50	34:45	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	947	47.4	40%-130%	0.51	33:56	

Recovery Standards	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,4-TCDD	0.82	26:38	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.19	34:28	

Data Reviewer: _____ 12/13/2000

MIT3_PSR v1.00. LAR

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Phone: (919) 544-5729 • Fax: (919) 544-5491

Printed: 17:40 12/13/

2

Initial ....Date...

Data Review By: JCA 12/13/00

Calculated Noise Height: 0.03

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 T006005B.dbf
12/13/2000 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_Z....	QC.Log	Cmit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Fla
TCDF						0.65-0.89			0.880-1.070				
304-306	DC	NL				Height	0.10	0.05	0.05				
	DC	SN		25:09		0.69	0.44			0.963			
	DC	SN		25:30	RO	0.60	0.67			0.976			
				25:45	RO	0.64	2.78	1.21	1.89	0.986	1278-TCDF	AN	J
				26:08		0.81	112.06	50.03	62.03	1.001	2378-TCDF	AN	
304-306			2	Peaks			114.84						
13C12-TCDF						0.65-0.89			0.962-1.038				
316-318	DC	NL				Height	0.11	0.07	0.04				
				25:43		0.78	2.44	1.07	1.37	0.985			
				26:07		0.75	544.55	233.65	310.90	1.000	13C12-2378-TCDF	ISO	
						Height	152.82	65.69	87.13				
				26:32		0.89	3.58	1.69	1.89	1.016			
				26:49	RO	1.15	0.31	0.53	0.46	1.027			
316-318			4	Peaks			551.38						

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

TCDD						0.65-0.89			0.904-1.042				
320-322	DC	NL				Height	0.09	0.05	0.04				
				26:49		0.79	78.28	34.51	43.77	1.001	2378-TCDD	AN	
320-322			1	Peak			78.28						
37Cl-TCDD									0.925-1.075				
328	DC	NL				Height	0.06	0.06					
	DC	WL		24:45			0.17			0.924			
	DC	SN		24:52			0.06			0.928			
	DC	SN		25:05			0.08			0.936			
				25:31			0.45	0.45		0.952			
	DC	SN		26:27			0.07			0.987			
	DC	SN		26:38			0.07			0.994			
				26:49			41.47	41.47		1.001	37Cl-TCDD	CLS	
	DC	SN		27:04			0.11			1.010			
	DC	SN		27:10			0.12			1.014			
	DC	SN		27:14			0.07			1.016			
	DC	SN		27:22			0.21			1.021			
	DC	SN		28:02			0.09			1.046			
	DC	SN		28:07			0.06			1.049			
	DC	SN		28:15			0.16			1.054			
328			2	Peaks			41.92						
13C12-TCDD						0.65-0.89			0.925-1.075				
332-334	DC	NL				Height	0.18	0.13	0.05				

Compound M_2...	QC	Log	Cmit	Why	RT	OK	Ratio	Total Area/Ht	Area/Ht Peak1	Area/Ht Peak2	Rel RT	Compound Name	ID	Flags
					26:38		0.82	1,008.10	453.73	554.37	0.994	13C12-1234-TCDD	RS1	
					26:48		0.81	401.87	180.03	221.84	1.000	13C12-2378-TCDD	IS1	
							Height	109.97	49.27	60.70				
332-334					2 Peaks			1,409.97						
---------- Above: TCDD / PeCDF Follows ----------														
PeCDF							1.32-1.78				0.930-1.062			
340-342	DC	NL					Height	0.09	0.04	0.05				
					29:07	RO	1.10	2.58	1.11	1.01	0.973			J
					29:34	RO	1.18	1.68	0.78	0.66	0.988			J
					29:39	RO	1.12	0.87	0.38	0.34	0.991			J
					29:57		1.49	521.00	311.64	209.36	1.001	12378-PeCDF	AN	
					30:14	RO	1.28	8.06	4.05	3.16	1.010			J
					30:37		1.49	551.43	329.57	221.86	1.023	23478-PeCDF	AN	
					30:46		1.57	4.11	2.51	1.60	1.023			J
					31:35	RO	1.24	3.49	1.70	1.37	1.055			J
340-342					8 Peaks			1,093.22						
13C12-PeCDF							1.32-1.78				0.866-1.134			
352-354	DC	NL					Height	0.08	0.04	0.04				
					29:07		1.36	1.51	0.87	0.64	0.973			
					29:56		1.50	541.19	324.77	216.42	1.000	13C12-PeCDF 123	IS2	
							Height	170.60	102.36	68.24				
					30:13		1.44	4.32	2.55	1.77	1.009			
					30:36		1.47	578.82	344.30	234.52	1.022	13C12-PeCDF 234	SUR1	
					31:34		1.64	6.15	3.82	2.33	1.055			
352-354					5 Peaks			1,131.99						
---------- Above: PeCDF / PeCDD Follows ----------														
PeCDD							1.32-1.78				0.938-1.020			
356-358	DC	NL					Height	0.09	0.05	0.04				
					30:03		1.38	0.76	0.44	0.32	0.971			J
					30:13		1.33	0.98	0.56	0.42	0.977			J
					30:36	RO	2.04	0.61	0.49	0.24	0.989			J
					30:57		1.55	380.01	230.89	149.12	1.001	12378-PeCDD	AN	
					31:21	RO	3.29	0.36	0.46	0.14	1.013			J
356-358					5 Peaks			382.72						
13C12-PeCDD							1.32-1.78				0.871-1.129			
368-370	DC	NL					Height	0.10	0.06	0.04				
					29:52	RO	2.27	2.09	1.86	0.82	0.966			
					30:02	RO	0.95	1.84	1.12	1.18	0.971			
					30:38	RO	0.92	0.36	0.22	0.24	0.990			
					30:56		1.47	373.78	222.30	151.48	1.000	13C12-PeCDD 123	IS3	
							Height	120.41	72.13	48.28				
368-370					4 Peaks			378.07						
---------- 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	Flag
HxCDF					1.05-1.43					0.963-1.047				
374-376	DC	NL			Height			0.23	0.13	0.10				
			32:30	RO			1.50	0.90	0.60	0.40	0.972			J
			33:21				1.26	512.06	285.82	226.24	0.998	123478-HxCDF	AN	
			33:27				1.27	519.58	290.86	228.72	1.000	123678-HxCDF	AN	
			33:57				1.27	555.13	310.10	245.03	1.015	234678-HxCDF	AN	
			34:46				1.28	430.94	241.88	189.06	1.040	123789-HxCDF	AN	
374-376			5 Peaks					2,018.61						
13C12-HxCDF					0.43-0.59					0.880-1.120				
384-386	DC	NL			Height			0.19	0.10	0.09				
			32:22				0.51	1.33	0.45	0.88	0.968			
			32:29	RO			0.52	1.30	0.44	0.71	0.972			
			33:20				0.50	454.35	151.48	302.87	0.997	13C12-HxCDF 473	SUR2	
			33:26				0.51	450.51	151.30	299.21	1.000	13C12-HxCDF 673	IS4	
					Height			140.49	47.24	93.25				
			33:56				0.51	495.51	167.01	328.50	1.015	13C12-HxCDF 234	ALT2	
	DC	SN	34:09				0.54	0.80			1.021			
			34:30	RO			1.11	0.56	0.41	0.37	1.032			
			34:45				0.50	373.76	124.79	248.97	1.039	13C12-HxCDF 789	ALT1	
	DC	SN	34:57	RO			2.44	0.14			1.045			
384-386			7 Peaks					1,777.32						
---------- Above: HxCDF / HxCDD Follows ----------														
HxCDD					1.05-1.43					0.957-1.013				
390-392	DC	NL			Height			0.13	0.06	0.07				
			34:04				1.24	379.12	210.03	169.09	0.998	123478-HxCDD	AN	
			34:10				1.22	347.14	191.04	156.10	1.000	123678-HxCDD	AN	
			34:29				1.22	381.59	210.00	171.59	1.010	123789-HxCDD	AN	
390-392			3 Peaks					1,107.85						
13C12-HxCDD					1.05-1.43					0.971-1.029				
402-404	DC	NL			Height			0.39	0.26	0.13				
			33:30				1.33	1.96	1.12	0.84	0.981			
			34:03				1.20	343.40	187.24	156.16	0.997	13C12-HxCDD 473	SUR3	
			34:09				1.20	330.31	180.49	149.82	1.000	13C12-HxCDD 673	IS5	
					Height			104.89	57.40	47.49				
			34:28				1.19	790.23	430.21	360.02	1.009	13C12-HxCDD 789	RS2	
402-404			4 Peaks					1,465.90						
---------- Above: HxCDD / HpCDF Follows ----------														
HpCDF					0.88-1.20					0.995-1.050				
408-410	DC	NL			Height			0.21	0.13	0.08				
			36:29				1.07	415.45	214.90	200.55	1.000	1234678-HpCDF	AN	
	DC	SN	36:45	RO			1.76	0.67			1.007			
	DC	SN	36:55	RO			1.28	0.96			1.012			
			38:08				1.06	354.42	182.54	171.88	1.045	1234789-HpCDF	AN	
408-410			2 Peaks					769.37						

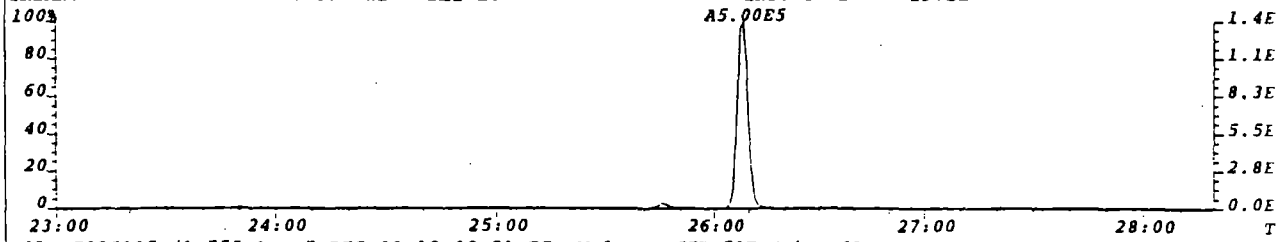
Compound M_Z....	QC.Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
13C12-HpCDF				0.37-0.51					0.945-1.110				
418-420	DC	NL		Height			0.16	0.07	0.09				
			36:29	0.43			314.63	94.75	219.88	1.000	13C12-HpCDF	678	I36
				Height			86.71	26.57	60.14				
			38:07	0.43			265.77	80.27	185.50	1.045	13C12-HpCDF	789	SUR4
	DC	SN	38:25	0.41			0.48			1.053			
418-420			2 Peaks				580.40						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD				0.88-1.20					0.974-1.004				
424-426	DC	NL		Height			0.13	0.06	0.07				
			36:46	1.11			0.97	0.51	0.46	0.978			J
			37:35	1.03			295.76	150.39	145.37	1.000	1234678-HpCDD	AN	
	DC	WH	38:06	RO 2.29			0.29			1.014			
424-426			2 Peaks				296.73						
13C12-HpCDD				0.88-1.20					0.973-1.027				
436-438	DC	NL		Height			0.49	0.38	0.11				
	DC	SN	37:04	RO 5.14			1.00			0.986			
			37:35	1.06			323.89	166.42	157.47	1.000	13C12-HpCDD	678	IS7
				Height			81.78	41.42	40.36				
			38:01	RO 3.55			1.77	3.09	0.87	1.012			
436-438			2 Peaks				325.66						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF				0.76-1.02					0.904-1.096				
442-444	DC	NL		Height			0.10	0.05	0.05				
			41:44	0.90			497.81	235.88	261.93	1.006	OCDF		AN
	DC	SN	42:05	RO 0.71			0.21			1.014			
442-444			1 Peak				497.81						
OCDD				0.76-1.02					0.904-1.096				
458-460	DC	NL		Height			0.08	0.04	0.04				
			41:31	0.85			443.21	203.73	239.48	1.000	OCDD		AN
			41:57	RO 0.40			0.36	0.17	0.42	1.011			
458-460			2 Peaks				443.57						
13C12-OCDD				0.76-1.02					0.996-1.004				
470-472	DC	NL		Height			0.14	0.07	0.07				
			41:30	0.86			495.07	228.44	266.63	1.000	13C12-OCDD		IS8
				Height			100.87	46.80	54.07				
470-472			1 Peak				495.07						

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

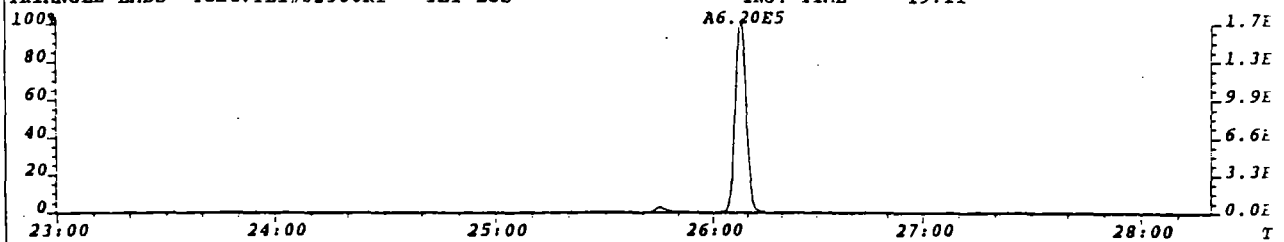
Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z - -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside 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 ***

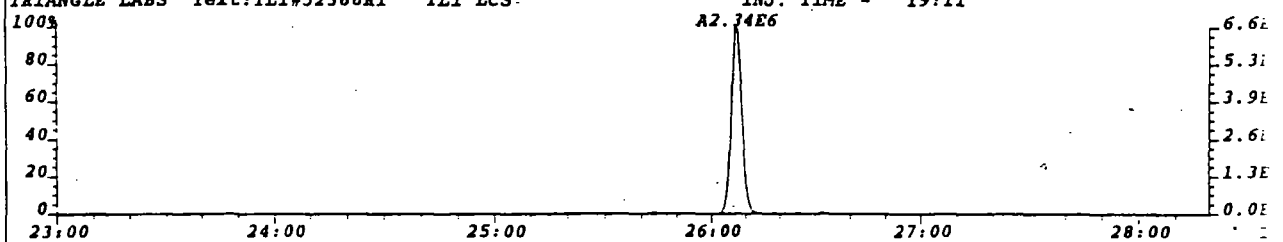
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:61
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11



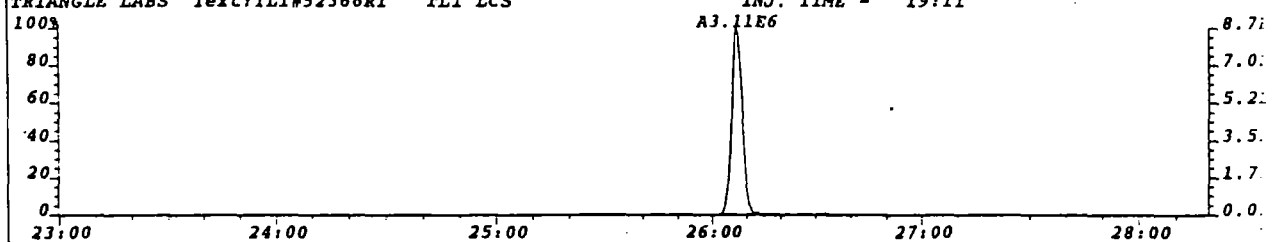
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:60
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,240.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11



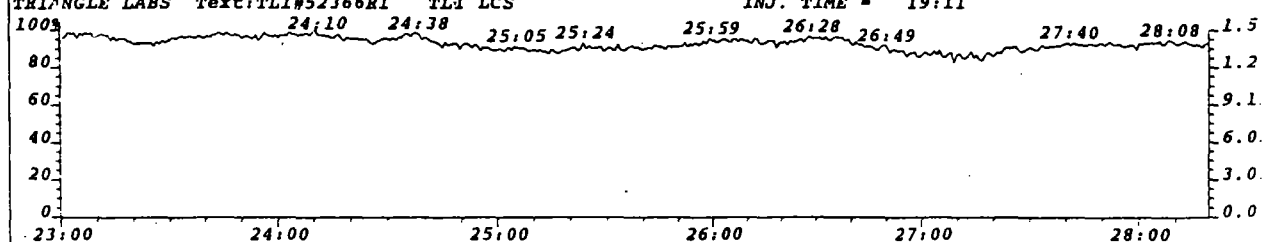
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:88
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,352.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11



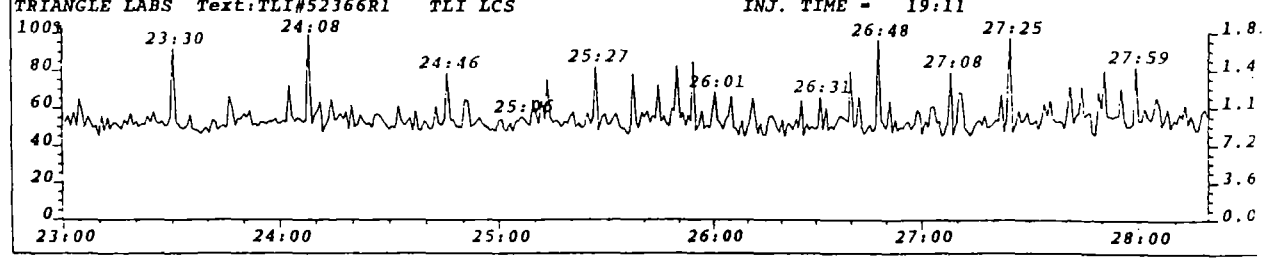
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:50
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11

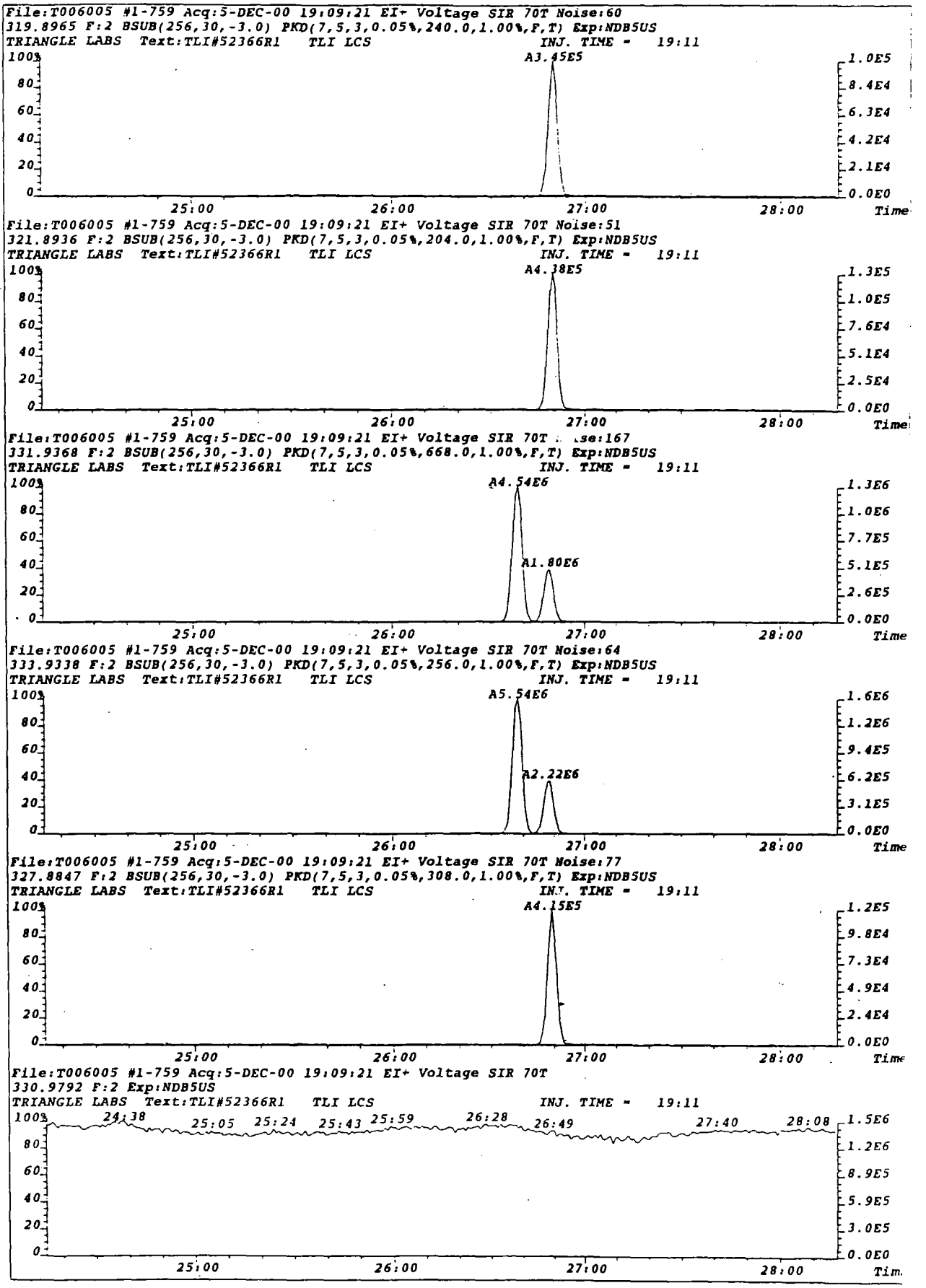


File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11

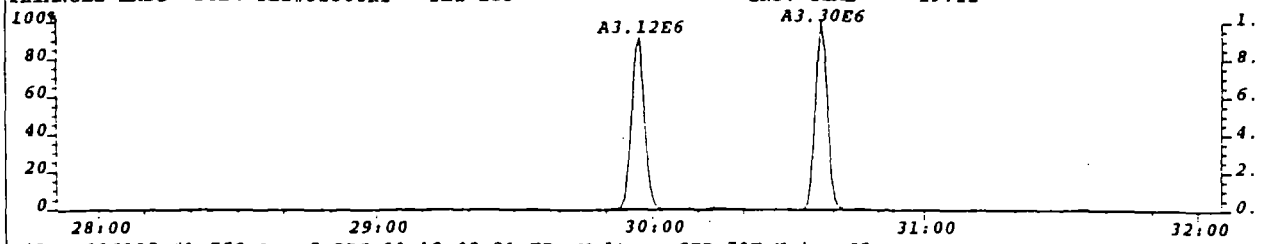


File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11

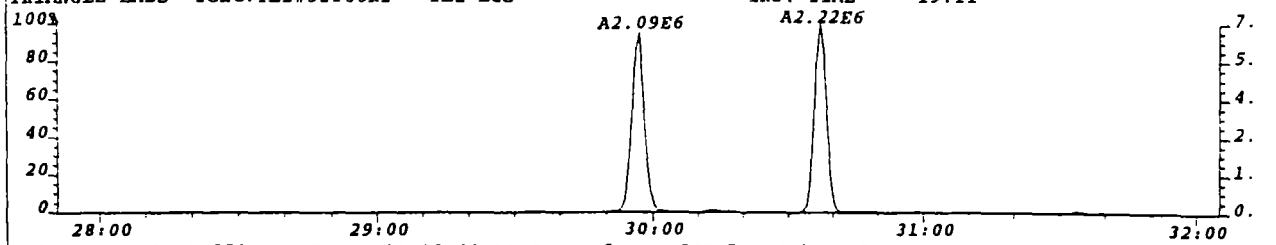



File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:60
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,240.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
A3.45E5
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:51
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,204.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
A4.38E5
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,668.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
A4.54E6
A1.80E6
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:64
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
A5.54E6
A2.22E6
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:77
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
A4.15E5
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
24:38 25:05 25:24 25:43 25:59 26:28 26:49 27:40 28:08
25:00 26:00 27:00 28:00 Time

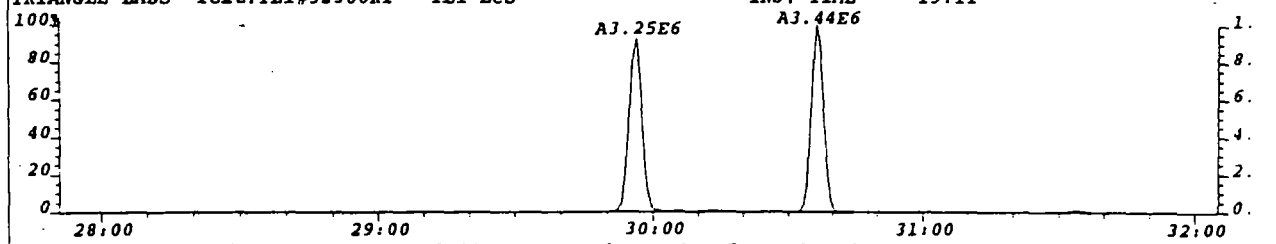
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:49
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,196.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11



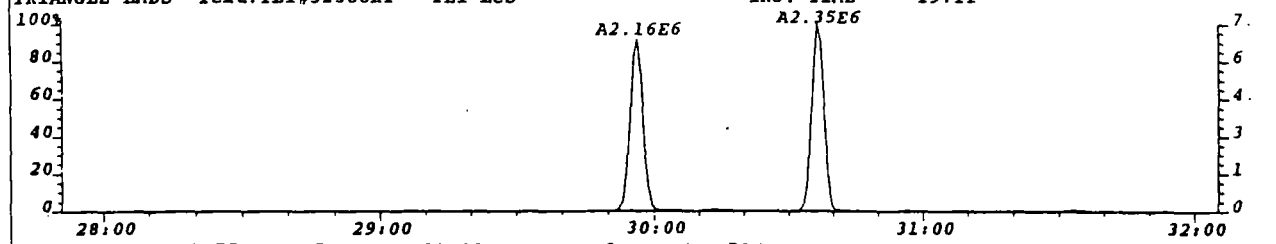
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:65
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11



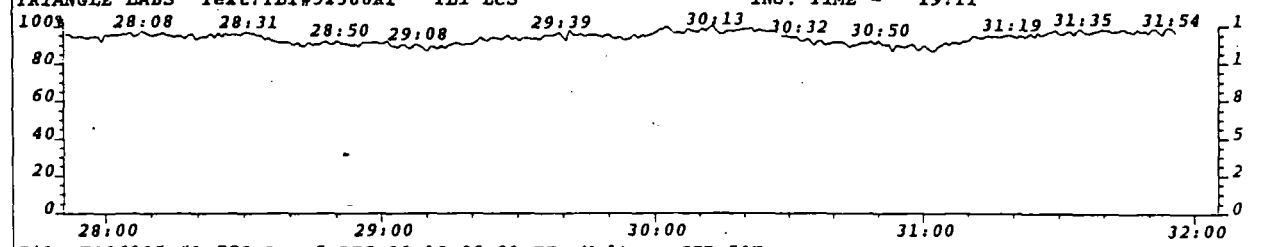
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:47
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,188.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11



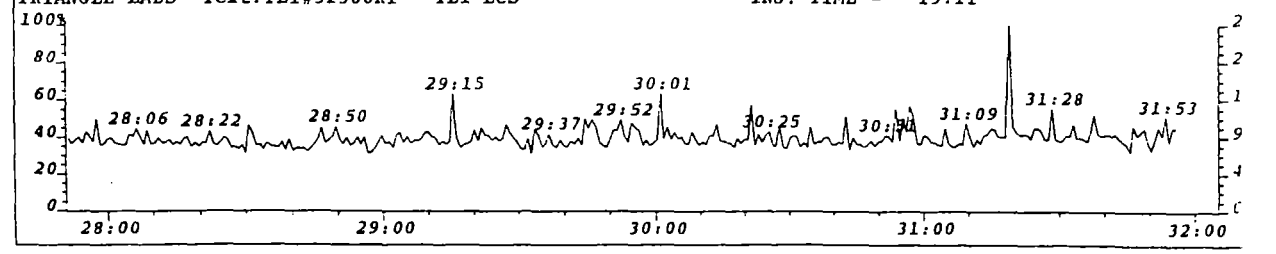
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:56
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,224.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11

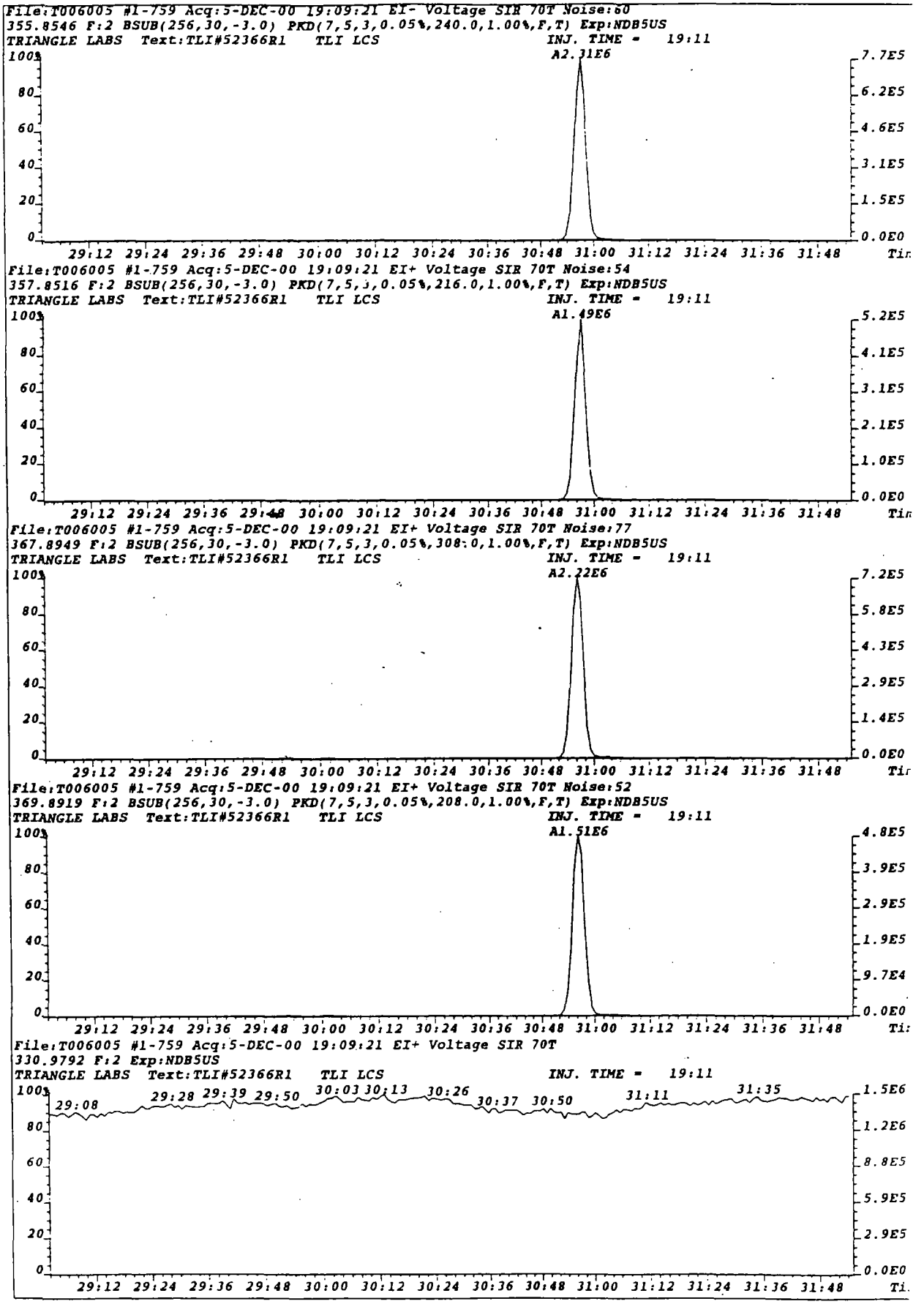


File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11

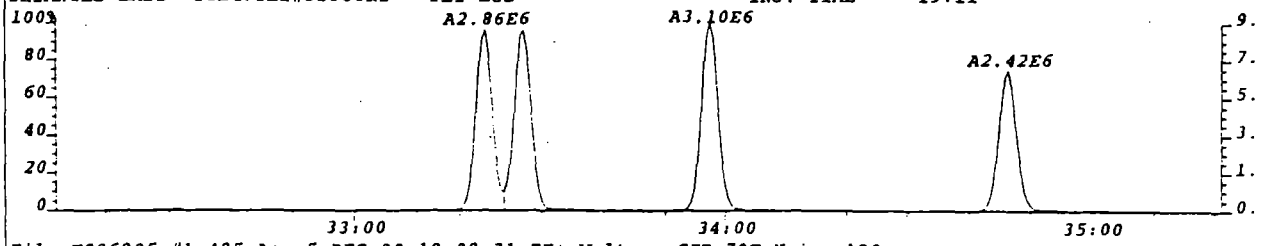


File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11

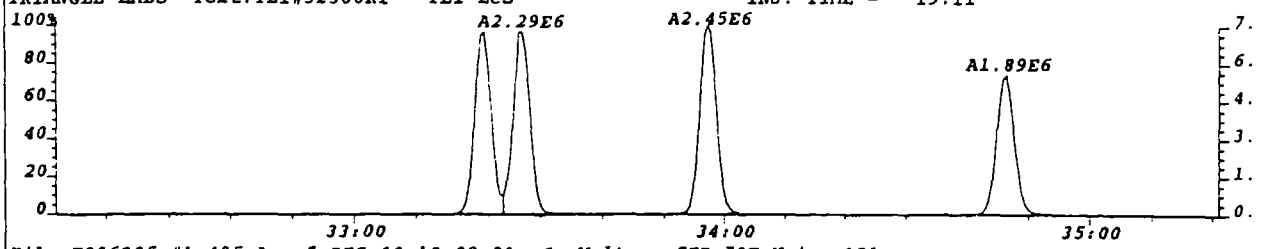



File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI- Voltage SIR 70T Noise:60
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,240.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS
INJ. TIME = 19:11
A2.31E6
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:54
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,216.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS
INJ. TIME = 19:11
A1.49E6
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:77
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS
INJ. TIME = 19:11
A2.22E6
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:52
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,208.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS
INJ. TIME = 19:11
A1.51E6
File:T006005 #1-759 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS
INJ. TIME = 19:11
29:08 29:28 29:39 29:50 30:03 30:13 30:26 30:37 30:50 31:11 31:35
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

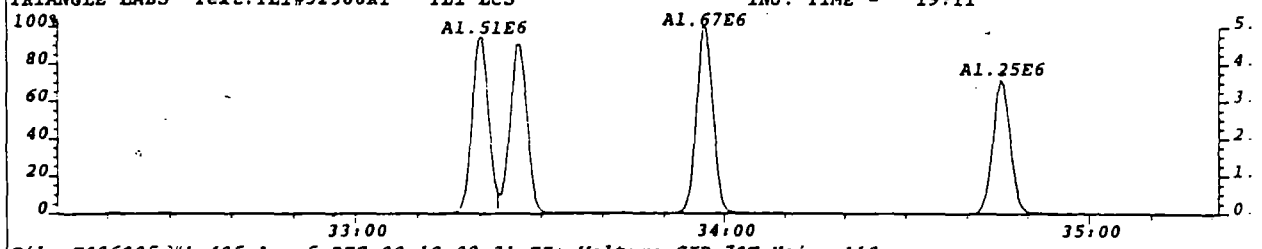
File:T006005 #1-485 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:158
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,632.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11



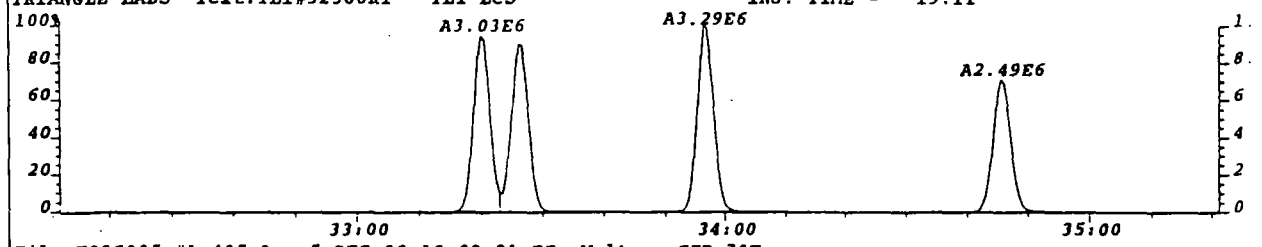
File:T006005 #1-485 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:128
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,512.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11



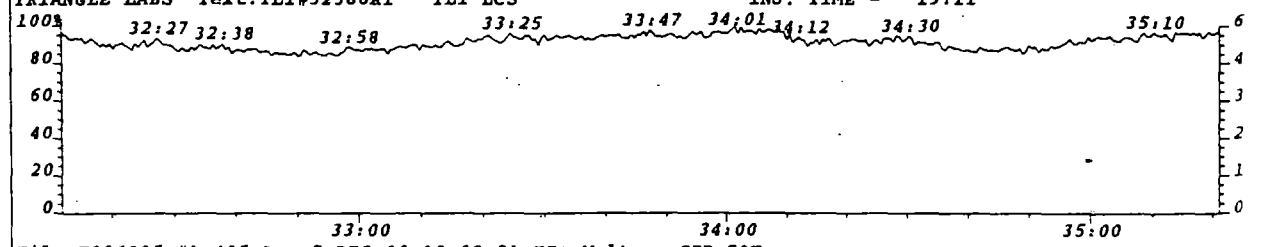
File:T006005 #1-485 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:121
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,484.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11



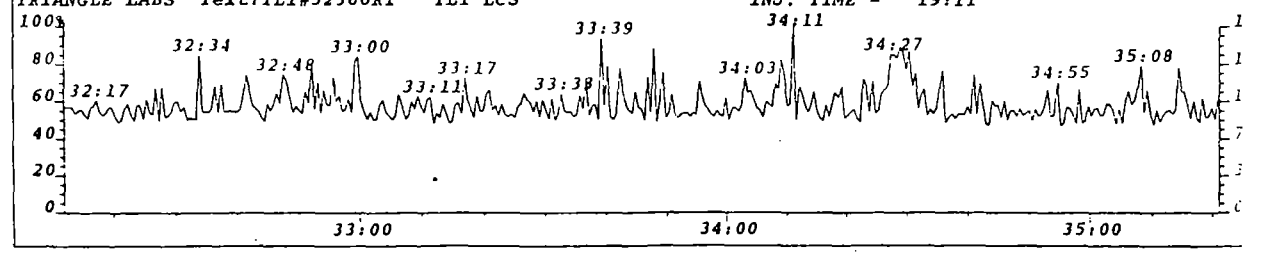
File:T006005 #1-485 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:118
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,472.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11

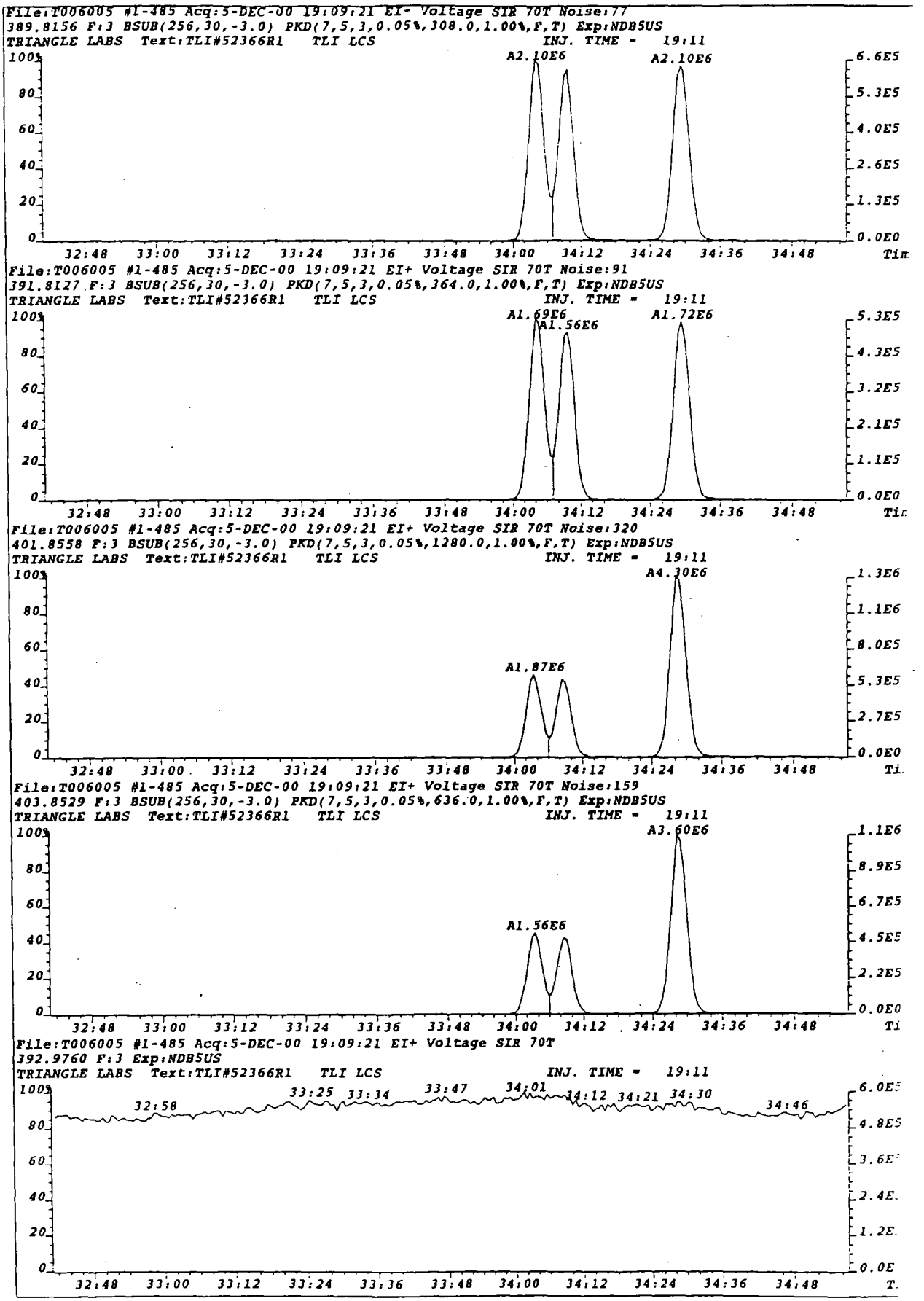


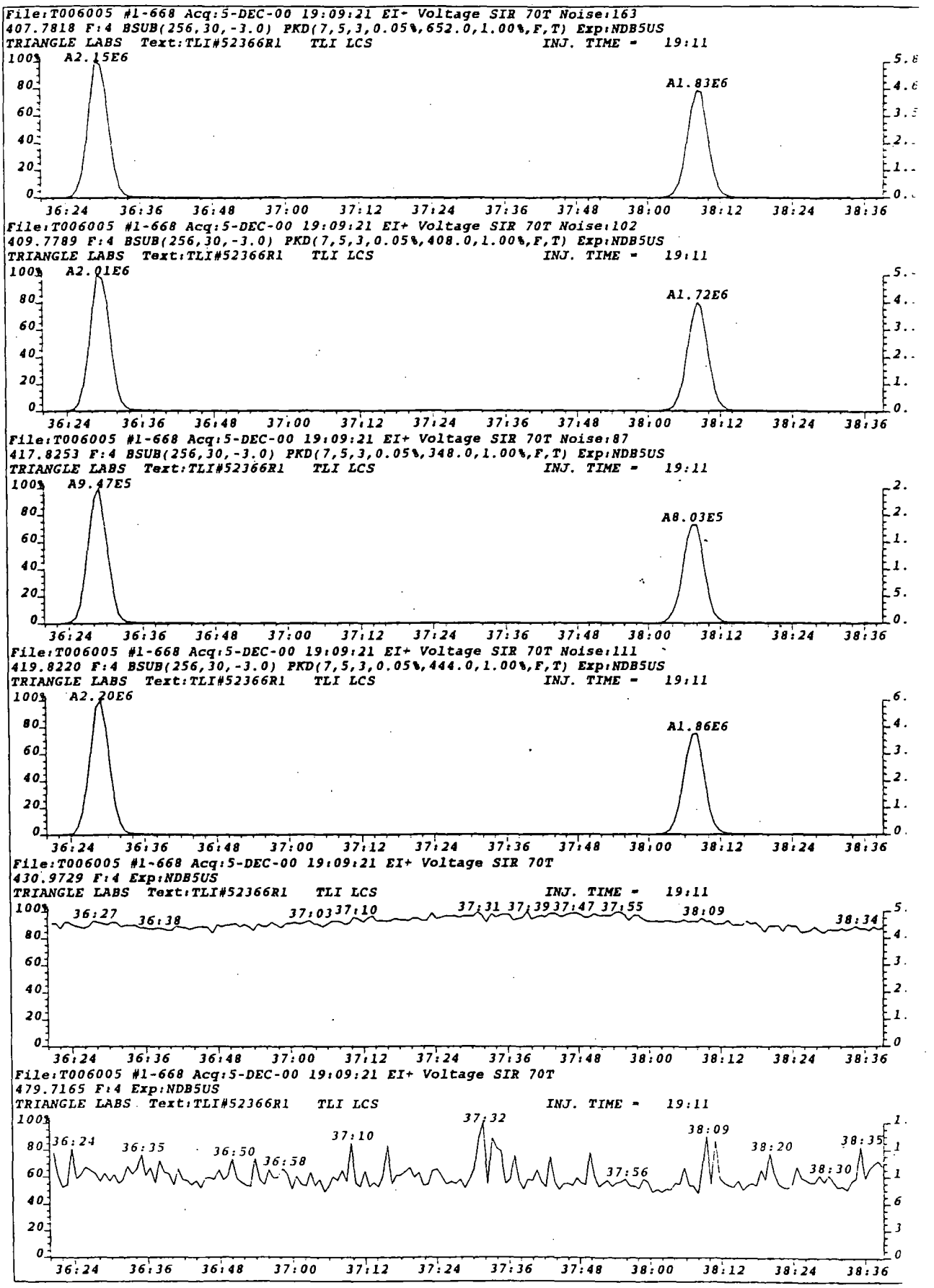
File:T006005 #1-485 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11



File:T006005 #1-485 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11




File:T006005 #1-485 Acq:5-DEC-00 19:09:21 EI- Voltage SIR 70T Noise:77
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS
INJ. TIME = 19:11
A2.10E6
A2.10E6
File:T006005 #1-485 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:91
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS
INJ. TIME = 19:11
A1.69E6
A1.56E6
A1.72E6
File:T006005 #1-485 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:320
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1280.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS
INJ. TIME = 19:11
A4.10E6
A1.87E6
File:T006005 #1-485 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:159
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,636.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS
INJ. TIME = 19:11
A3.60E6
A1.56E6
File:T006005 #1-485 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS
INJ. TIME = 19:11
32:58
33:25
33:34
33:47
34:01
34:12
34:21
34:30
34:46


File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI- Voltage SIR 70T Noise:163
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,652.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
A2.15E6
A1.83E6
File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:102
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,408.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
A2.01E6
A1.72E6
File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:87
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,348.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
A9.47E5
A8.03E5
File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:111
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,444.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
A2.20E6
A1.86E6
File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
36:27
36:38
37:03
37:10
37:31
37:39
37:47
37:55
38:09
38:34
File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
36:24
36:35
36:50
36:58
37:10
37:32
37:56
38:09
38:20
38:30
38:35
36:24
36:36
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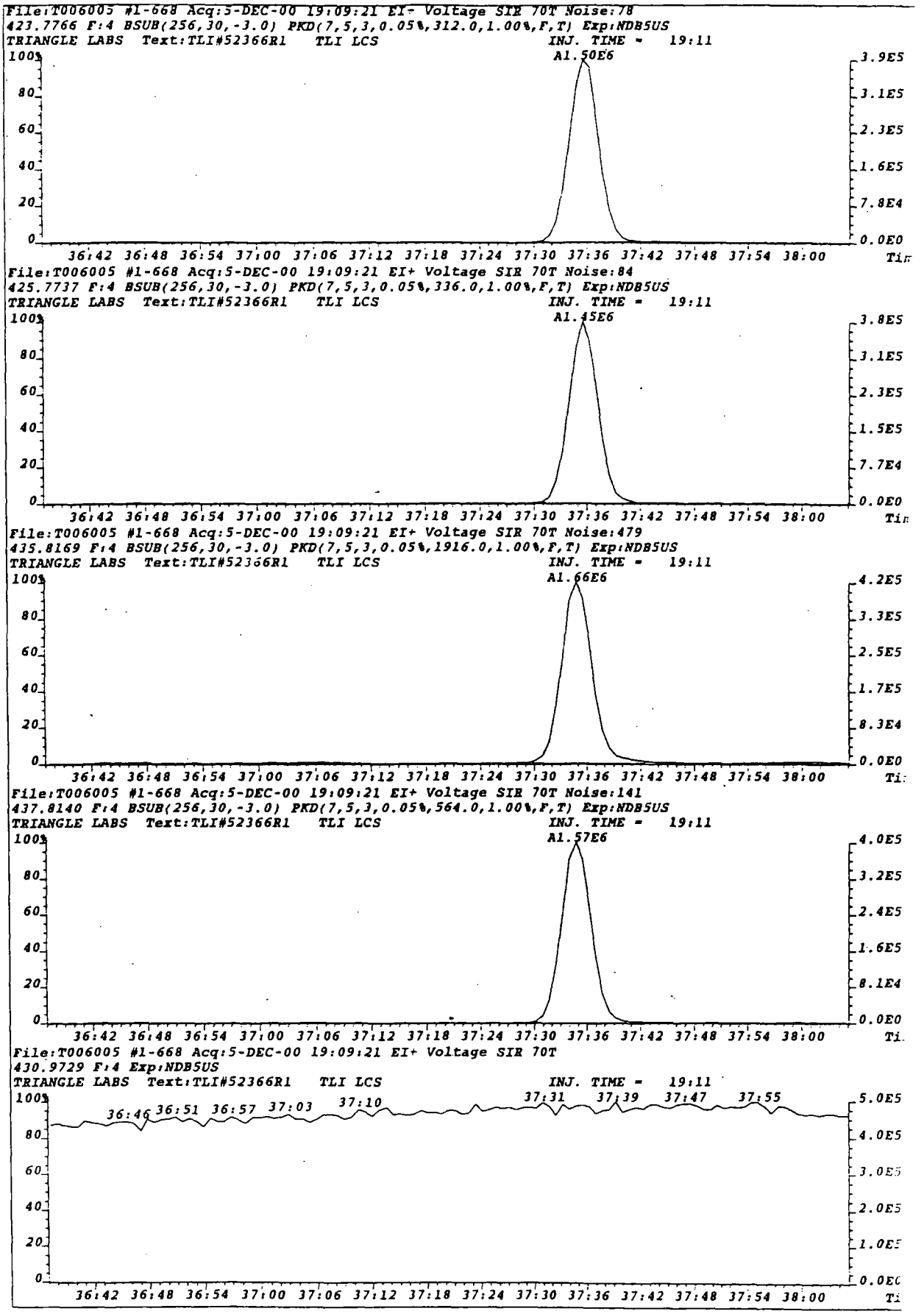
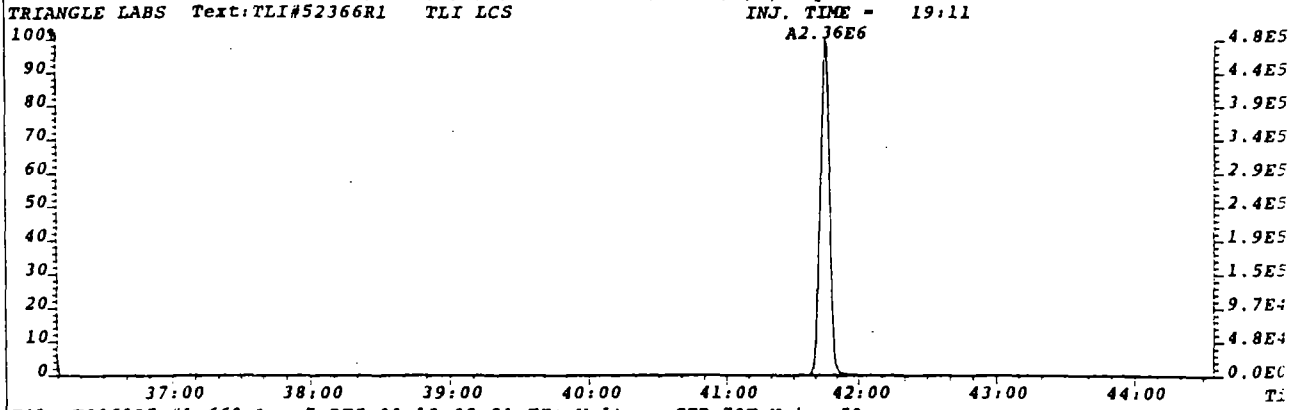
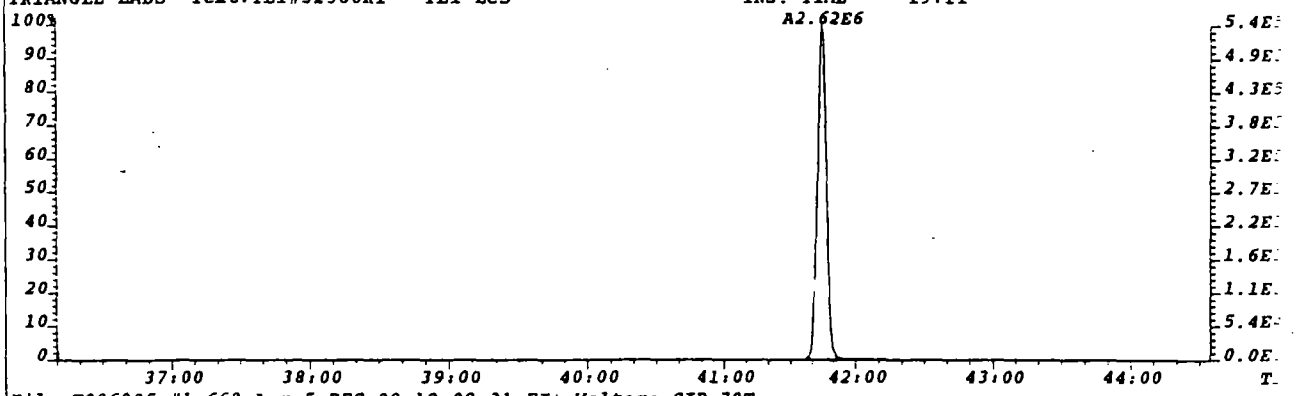
37:48
38:00
38:12
38:24
38:36


File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:78
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,312.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS
INJ. TIME = 19:11
A1.50E6
File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:84
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,336.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS
INJ. TIME = 19:11
A1.45E6
File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:479
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1916.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS
INJ. TIME = 19:11
A1.66E6
File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:141
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,564.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS
INJ. TIME = 19:11
A1.57E6
File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS
INJ. TIME = 19:11
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00

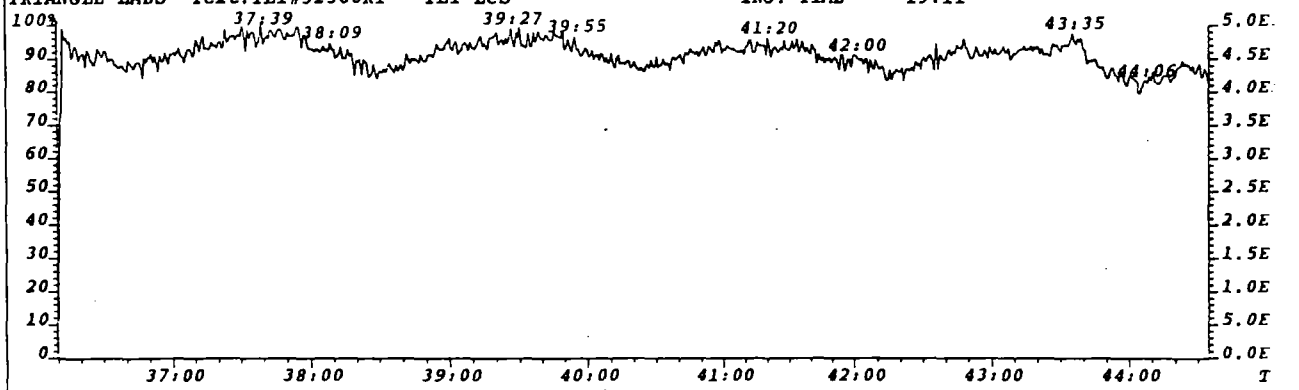
File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:63
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11



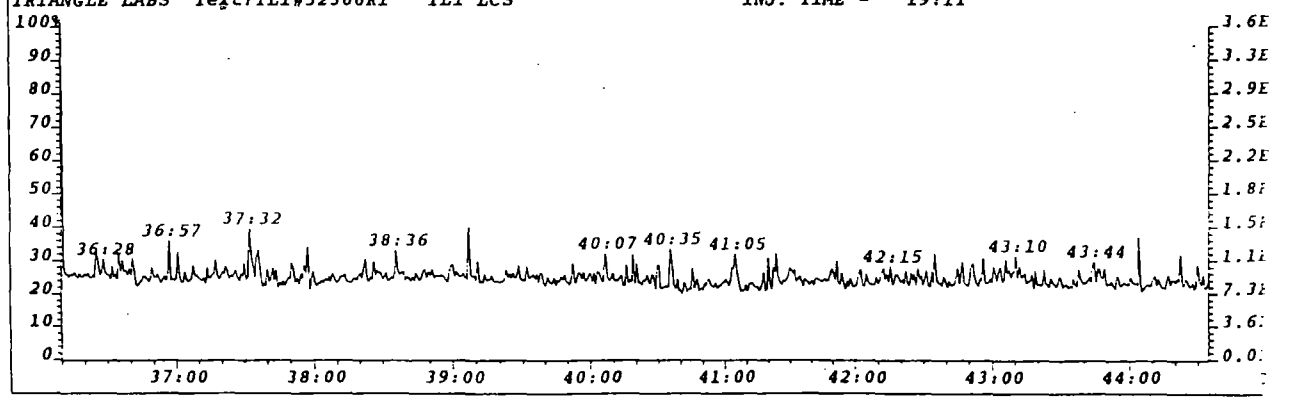
File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:58
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11

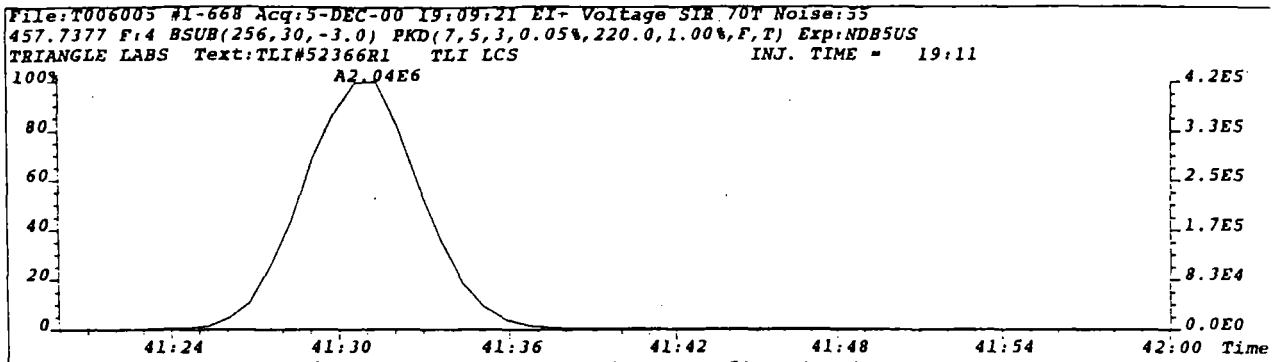


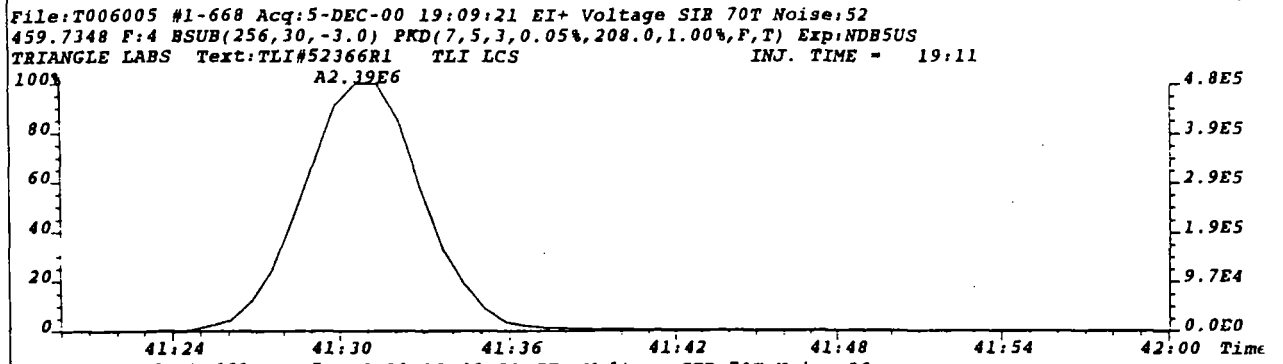
File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11

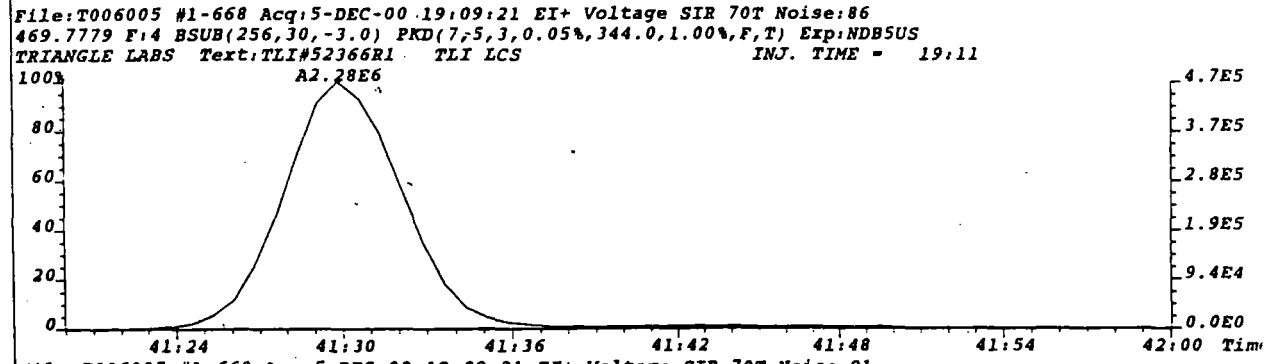


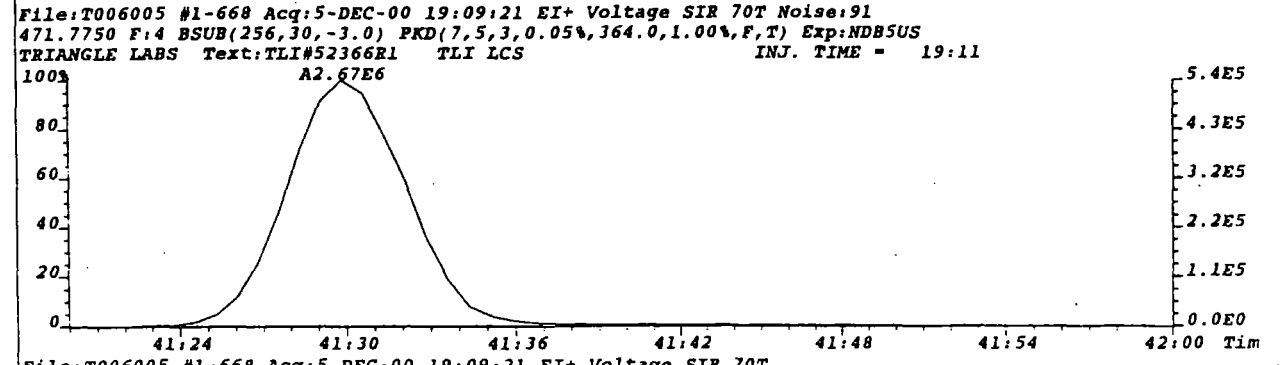
File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11

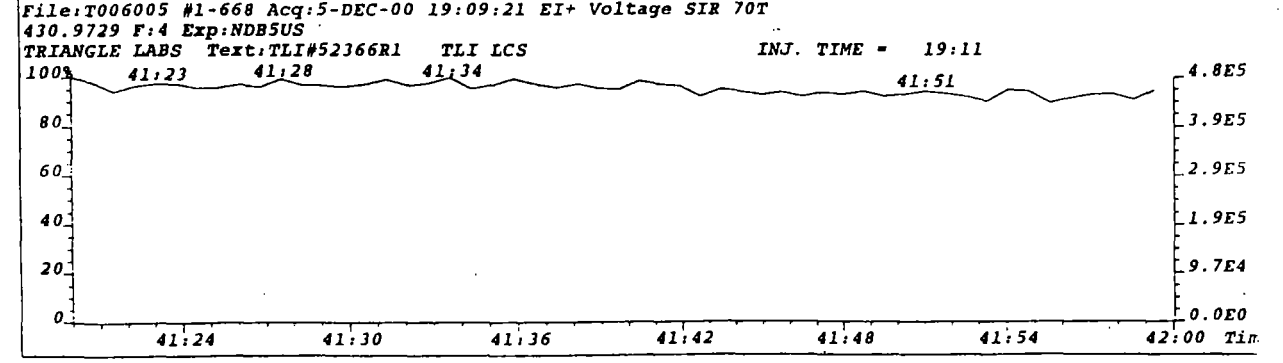


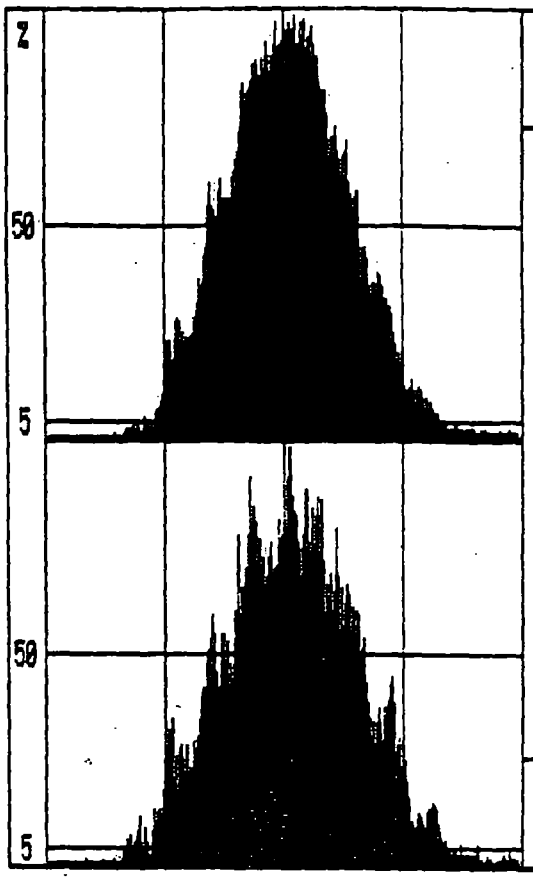

File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:55
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,220.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
A2.04E6
100%
80
60
40
20
0
4.2E5
3.3E5
2.5E5
1.7E5
8.3E4
0.0E0
41:24
41:30
41:36
41:42
41:48
41:54
42:00 Time


File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:52
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,208.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
A2.39E6
100%
80
60
40
20
0
4.8E5
3.9E5
2.9E5
1.9E5
9.7E4
0.0E0
41:24
41:30
41:36
41:42
41:48
41:54
42:00 Time


File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:86
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,344.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
A2.28E6
100%
80
60
40
20
0
4.7E5
3.7E5
2.8E5
1.9E5
9.4E4
0.0E0
41:24
41:30
41:36
41:42
41:48
41:54
42:00 Time


File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T Noise:91
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
A2.67E6
100%
80
60
40
20
0
5.4E5
4.3E5
3.2E5
2.2E5
1.1E5
0.0E0
41:24
41:30
41:36
41:42
41:48
41:54
42:00 Time


File:T006005 #1-668 Acq:5-DEC-00 19:09:21 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCS INJ. TIME = 19:11
100%
41:23
41:28
41:34
41:51
80
60
40
20
0
4.8E5
3.9E5
2.9E5
1.9E5
9.7E4
0.0E0
41:24
41:30
41:36
41:42
41:48
41:54
42:00 Time

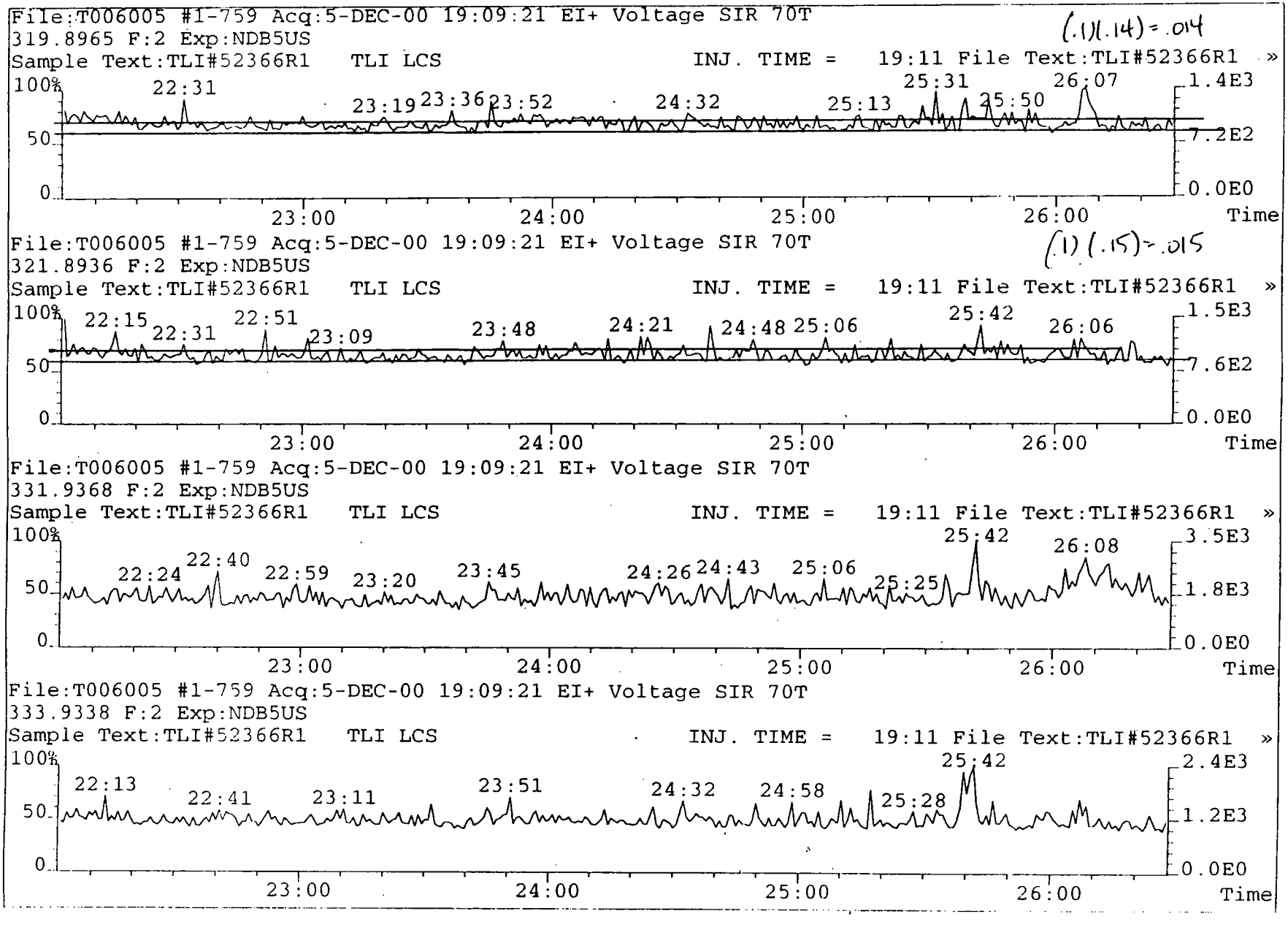


Channel	I	330.9792		Peak top	
Height	.68	volts	Span	200	ppm

System file name	MDBSUS
Data file name	A:TD05003
Resolution	10000
Group number	2
Ionization mode	EI+
Switching	VOLTAGE
Ref. masses	292.9825, 416.9760

A	293	J	331	S	368
B	304	K	332	T	370
C	306	L	334	U	376
D	316	M	340	V	410
E	318	N	342		
F	320	O	352		
G	322	P	354		
H	328	Q	356		
I	331	R	358		

Ref. mass	416.9760			Peak top	
Height	.13	volts	Span	200	ppm



.014
.015
.029
JCA
12/13/00

TriMatrix, Inc.

TLI Project: **52366r1** — Method 8290 PCDD/PCDF Analysis
Client Sample: **TLI LCSD** — Analysis File: **T006**

Client Project:	BASF-Malcolm Pirnie				
Sample Matrix:	WATER	Date Received:	/ /	Spike File:	SPMIT32
TLI ID:	TLI LCSD	Date Extracted:	12/01/2000	ICal:	TF57140
		Date Analyzed:	12/05/2000	ConCal:	T005996
Sample Size:	1.000 L	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T005998	% Lipid:	n/a
GC Column:	DB-5	Analyst:	BWL	% Solids:	n/a

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Fla
2,3,7,8-TCDD	447			0.78	26:49	
1,2,3,7,8-PeCDD	2140			1.54	30:57	
1,2,3,4,7,8-HxCDD	2300			1.25	34:04	
1,2,3,6,7,8-HxCDD	2240			1.25	34:10	
1,2,3,7,8,9-HxCDD	2530			1.25	34:30	
1,2,3,4,6,7,8-HpCDD	2350			1.04	37:36	
1,2,3,4,6,7,8,9-OCDD	4260			0.86	41:31	
2,3,7,8-TCDF	435			0.84	26:08	
1,2,3,7,8-PeCDF	2180			1.49	29:57	
2,3,4,7,8-PeCDF	2290			1.49	30:37	
1,2,3,4,7,8-HxCDF	2370			1.26	33:21	
1,2,3,6,7,8-HxCDF	2390			1.27	33:27	
2,3,4,6,7,8-HxCDF	2840			1.26	33:58	
1,2,3,7,8,9-HxCDF	2920			1.28	34:46	
1,2,3,4,6,7,8-HpCDF	2250			1.08	36:30	
1,2,3,4,7,8,9-HpCDF	2590			1.06	38:09	
1,2,3,4,6,7,8,9-OCDF	4160			0.90	41:45	

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Fla
$^{13}C_{12}$-2,3,7,8-TCDF	953	47.6	40%-130%	0.74	26:08	
$^{13}C_{12}$-2,3,7,8-TCDD	941	47.0	40%-130%	0.79	26:48	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1070	53.5	40%-130%	1.47	29:56	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1270	63.3	40%-130%	1.55	30:56	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	827	41.4	40%-130%	0.51	33:27	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1020	50.9	40%-130%	1.22	34:09	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	946	47.3	25%-130%	0.43	36:29	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1010	50.6	25%-130%	1.01	37:35	
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	2040	51.1	25%-130%	0.83	41:30	

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Printed: 17:41 12/13

TLI Project: **52366r1** Method 8290 PCDD/PCDF Analysis
Client Sample: **TLI LCSD** Analysis File: **T006**

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1140	56.8	40%-130%	1.48	30:36	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	846	42.3	40%-130%	0.50	33:20	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	983	49.1	40%-130%	1.21	34:03	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1050	52.5	25%-130%	0.43	38:08	

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flag
$^{37}Cl_4$-2,3,7,8-TCDD	105	52.6	40%-130%	26:50	

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1120	56.2	40%-130%	0.50	34:46	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1020	50.8	40%-130%	0.51	33:57	

Recovery Standards	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,4-TCDD	0.80	26:38	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.20	34:29	

Data Reviewer: _____ 12/13/2000

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Initial ....Date...

Data Review By: JCH 12/13/00

Calculated Noise Height: 0.04

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 T006006B.dbf
12/13/2000 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					0.980-1.070				
304-306	DC	NL		Height			0.10	0.06	0.04				
				25:46		0.70	2.25	0.93	1.32	0.986	1278-TCDF		AN
	DC	SN		25:56	RO	1.13	0.14			0.992			
				26:08		0.84	86.72	39.64	47.08	1.000	2378-TCDF		AN
304-306			2	Peaks			88.97						
13C12-TCDF				0.65-0.89					0.962-1.038				
316-318	DC	NL		Height			0.11	0.06	0.05				
				25:45		0.82	1.97	0.89	1.08	0.985			
				26:08		0.74	389.80	166.20	223.60	1.000	13C12-2378-TCDF		ISO
				Height			108.33	46.27	62.06				
				26:33	RO	1.01	2.48	1.42	1.40	1.016			
				26:49	RO	1.29	0.55	0.40	0.31	1.026			
316-318			4	Peaks			394.80						

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

TCDD				0.65-0.89					0.904-1.042				
320-322	DC	NL		Height			0.08	0.04	0.04				
	DC	SN		24:35	RO	0.36	0.11			0.917			
				26:49		0.78	64.53	28.29	36.24	1.001	2378-TCDD		AN
	DC	SN		27:06	RO	2.40	0.09			1.011			
320-322			1	Peak			64.53						
37Cl-TCDD									0.925-1.075				
328	DC	NL		Height			0.05	0.05					
	DC	WL		24:13			0.10			0.904			
	DC	WL		24:19			0.15			0.907			
				25:30			0.21	0.21		0.951			
	DC	SN		26:30			0.02			0.989			
	DC	SN		26:34			0.10			0.991			
	DC	SN		26:41			0.11			0.996			
				26:50			29.88	29.38		1.001	37Cl-TCDD		CLS
	DC	SN		27:07			0.14			1.012			
	DC	SN		27:24			0.26			1.022			
	DC	SN		27:42			0.17			1.034			
	DC	SN		27:51			0.05			1.039			
	DC	SN		27:57			0.15			1.043			
	DC	SN		28:02			0.04			1.046			
				28:17			0.32	0.32		1.055			
328			3	Peaks			30.41						

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			0.13	0.08	0.05				
				25:41	RO	3.06	0.32	0.55	0.13	0.958			
				26:38		0.80	638.34	283.61	354.73	0.994	13C12-1234-TCDD	RS1	
				26:48		0.79	315.80	139.82	175.98	1.000	13C12-2378-TCDD	IS1	
					Height		88.69	38.84	49.85				
332-334			3 Peaks				954.46						
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF				1.32-1.78					0.930-1.060				
340-342	DC	NL		Height			0.09	0.04	0.05				
				29:07	RO	1.01	1.73	0.69	0.68	0.973			J
				29:35	RO	1.05	1.45	0.60	0.57	0.988			J
				29:57		1.49	407.03	243.76	163.27	1.001	12378-PeCDF	AN	
				30:14		1.37	5.82	3.36	2.46	1.010			J
				30:37		1.49	433.18	259.40	173.78	1.023	23478-PeCDF	AN	
				30:55	RO	0.67	0.61	0.37	0.55	1.033			J
				31:35	RO	1.12	2.58	1.13	1.01	1.055			J
340-342			7 Peaks				852.40						
13C12-PeCDF				1.32-1.78					0.866-1.134				
352-354	DC	NL		Height			0.08	0.04	0.04				
				29:08		1.65	0.69	0.43	0.26	0.973			
				29:56		1.47	409.50	243.66	165.84	1.000	13C12-PeCDF 123	IS2	
					Height		128.09	76.33	51.76				
				30:14	RO	1.80	3.11	2.20	1.22	1.010			
				30:36		1.48	430.69	257.20	173.49	1.022	13C12-PeCDF 234	SUR1	
				31:35		1.49	4.33	2.59	1.74	1.055			
352-354			5 Peaks				848.32						
---------- Above: PeCDF / PeCDD Follows ----------													
PeCDD				1.32-1.78					0.938-1.020				
356-358	DC	NL		Height			0.08	0.04	0.04				
	DC	SN		30:01	RO	0.71	0.16			0.970			
				30:13		1.47	0.42	0.25	0.17	0.977			J
				30:57		1.54	311.44	189.02	122.42	1.001	12378-PeCDD	AN	
	DC	SN		31:27	RO	0.92	0.20			1.017			
356-358			2 Peaks				311.86						
13C12-PeCDD				1.32-1.78					0.871-1.129				
368-370	DC	NL		Height			0.08	0.04	0.04				
				29:53		1.40	1.32	0.77	0.55	0.966			
				30:01	RO	1.25	1.45	0.71	0.57	0.970			
				30:13	RO	0.59	0.21	0.13	0.22	0.977			
				30:56		1.55	275.45	167.28	108.17	1.000	13C12-PeCDD 123	IS3	
					Height		86.47	52.52	33.95				
				31:24		1.71	0.46	0.29	0.17	1.015			
368-370			5 Peaks				278.89						

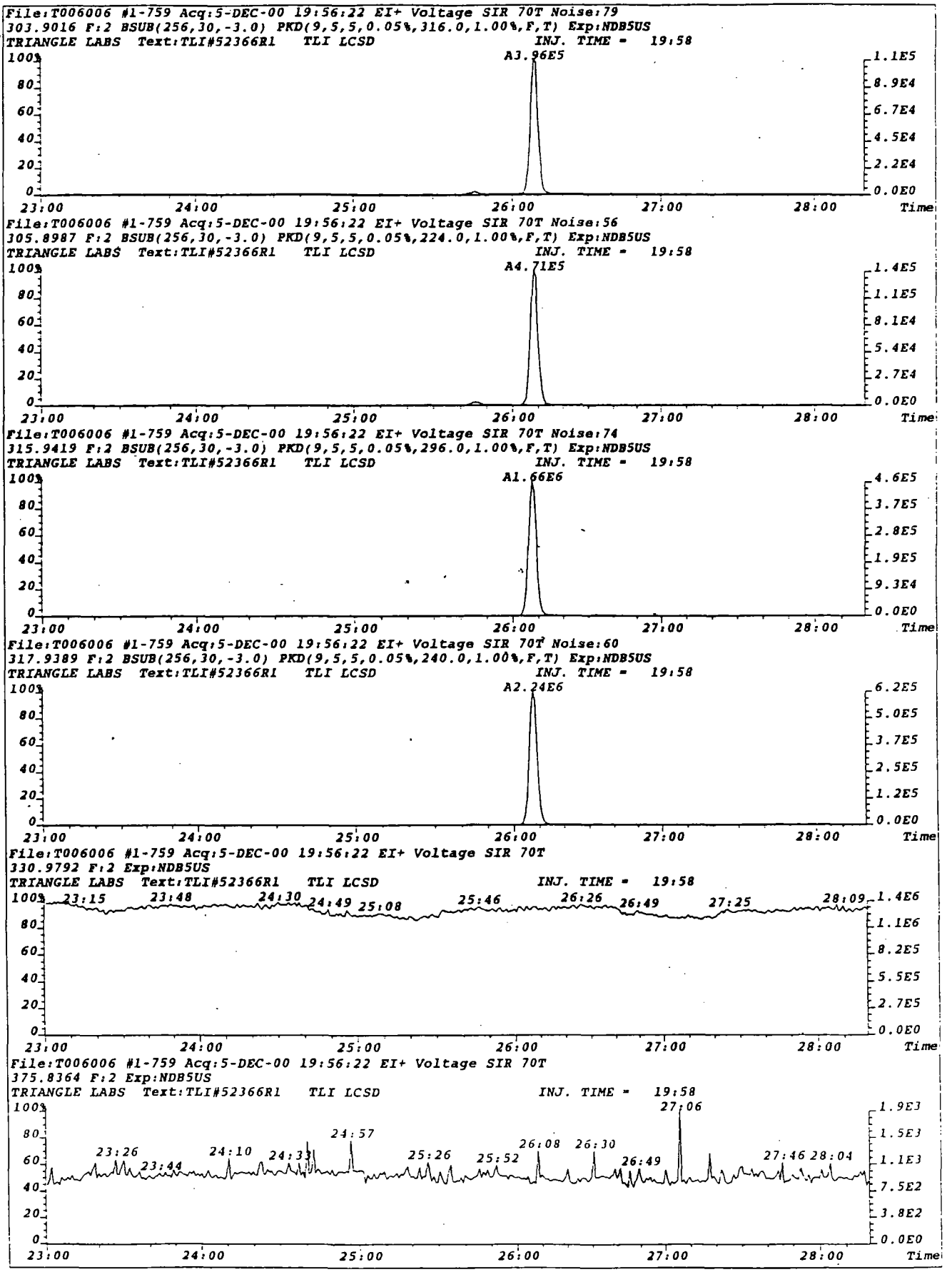
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF						1.05-1.43				0.963-1.047			
374-376	DC	NL				Height	0.13	0.07	0.06				
				32:31	RO	1.61	0.63	0.45	0.28	0.972			J
				33:21		1.26	377.98	210.59	167.39	0.997	123478-HxCDF	AN	
				33:27		1.27	399.21	222.99	176.22	1.000	123678-HxCDF	AN	
				33:46		1.42	0.46	0.27	0.19	1.009			J
				33:58		1.26	430.47	239.97	190.50	1.015	234678-HxCDF	AN	
				34:46		1.28	361.63	202.82	158.81	1.039	123789-HxCDF	AN	
374-376				6 Peaks			1,570.38						
13C12-HxCDF						0.43-0.59				0.880-1.120			
384-386	DC	NL				Height	0.14	0.06	0.08				
				32:22		0.56	0.81	0.29	0.52	0.968			
				32:30	RO	0.62	0.98	0.33	0.53	0.972			
				33:20		0.50	313.90	104.72	209.18	0.997	13C12-HxCDF 478	SUR2	
				33:27		0.51	311.41	105.22	206.19	1.000	13C12-HxCDF 678	IS4	
						Height	97.69	33.07	64.62				
				33:57		0.51	349.18	117.49	231.69	1.015	13C12-HxCDF 234	ALT2	
				34:07	RO	0.78	0.74	0.25	0.32	1.020			
	DC	SN		34:12		0.44	0.23			1.022			
				34:46		0.50	283.55	95.11	188.44	1.039	13C12-HxCDF 789	ALT1	
384-386				7 Peaks			1,260.57						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD						1.05-1.43				0.957-1.013			
390-392	DC	NL				Height	0.09	0.04	0.05				
				34:04		1.25	280.83	155.80	125.03	0.998	123478-HxCDD	AN	
				34:10		1.25	273.12	151.75	121.37	1.000	123678-HxCDD	AN	
				34:30		1.25	311.16	172.82	138.34	1.010	123789-HxCDD	AN	
	DC	WH		34:49	RO	0.31	0.18			1.020			
390-392				3 Peaks			865.11						
13C12-HxCDD						1.05-1.43				0.971-1.029			
402-404	DC	NL				Height	0.09	0.04	0.05				
				33:31		1.21	1.35	0.74	0.61	0.981			
				34:03		1.21	239.44	131.07	108.37	0.997	13C12-HxCDD 478	SUR3	
				34:09		1.22	239.85	131.69	108.16	1.000	13C12-HxCDD 678	IS5	
						Height	73.66	40.26	33.40				
				34:29		1.20	518.61	283.22	235.39	1.010	13C12-HxCDD 789	RS2	
				34:53	RO	2.25	0.27	0.27	0.12	1.021			
402-404				5 Peaks			999.52						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF						0.88-1.20				0.995-1.050			
408-410	DC	NL				Height	0.14	0.08	0.06				
				36:30		1.08	336.00	174.49	161.51	1.000	1234678-HpCDF	AN	
				36:56	RO	1.30	0.94	0.60	0.46	1.012			J
				38:09		1.06	299.03	153.76	145.27	1.046	1234789-HpCDF	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
408-410			3 Peaks				635.97						
13C12-HpCDF				0.37-0.51						0.945-1.110			
418-420	DC	NL				Height	0.09	0.04	0.05				
				36:29		0.43	237.92	71.07	166.85	1.000	13C12-HpCDF 678	IS6	
						Height	67.82	19.77	48.05				
				38:08		0.43	205.44	62.05	143.39	1.045	13C12-HpCDF 789	SUR4	
				38:24	RO	1.25	0.23	0.20	0.16	1.053			
	DC	SN		38:42	RO	0.34	0.39			1.061			
418-420			3 Peaks				443.59						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD				0.38-1.20						0.974-1.004			
424-426	DC	NL				Height	0.12	0.06	0.06				
				36:48	RO	1.47	0.61	0.44	0.30	0.979			J
				37:36		1.04	226.45	115.33	111.12	1.000	1234678-HpCDD	AN	
	DC	WH		37:53	RO	0.33	0.18			1.008			
424-426			2 Peaks				227.06						
13C12-HpCDD				0.38-1.20						0.973-1.027			
436-438	DC	NL				Height	0.11	0.06	0.05				
				36:47	RO	1.95	0.41	0.39	0.20	0.979			
				37:35		1.01	225.15	113.16	111.99	1.000	13C12-HpCDD 678	IS7	
						Height	58.63	28.92	29.71				
	DC	SN		37:51	RO	2.33	0.24			1.007			
436-438			2 Peaks				225.56						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF				0.76-1.02						0.904-1.096			
442-444	DC	NL				Height	0.05	0.02	0.03				
				41:45		0.90	422.77	199.73	223.04	1.006	OCDF	AN	
442-444			1 Peak				422.77						
OCDD				0.76-1.02						0.904-1.096			
458-460	DC	NL				Height	0.06	0.03	0.03				
				41:31		0.86	359.75	166.73	193.02	1.000	OCDD	AN	
458-460			1 Peak				359.75						
13C12-OCDD				0.76-1.02						0.996-1.004			
470-472	DC	NL				Height	0.07	0.04	0.03				
				41:30		0.83	369.89	167.49	202.40	1.000	13C12-OCDD	IS8	
						Height	77.34	35.59	41.75				
470-472			1 Peak				369.89						

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

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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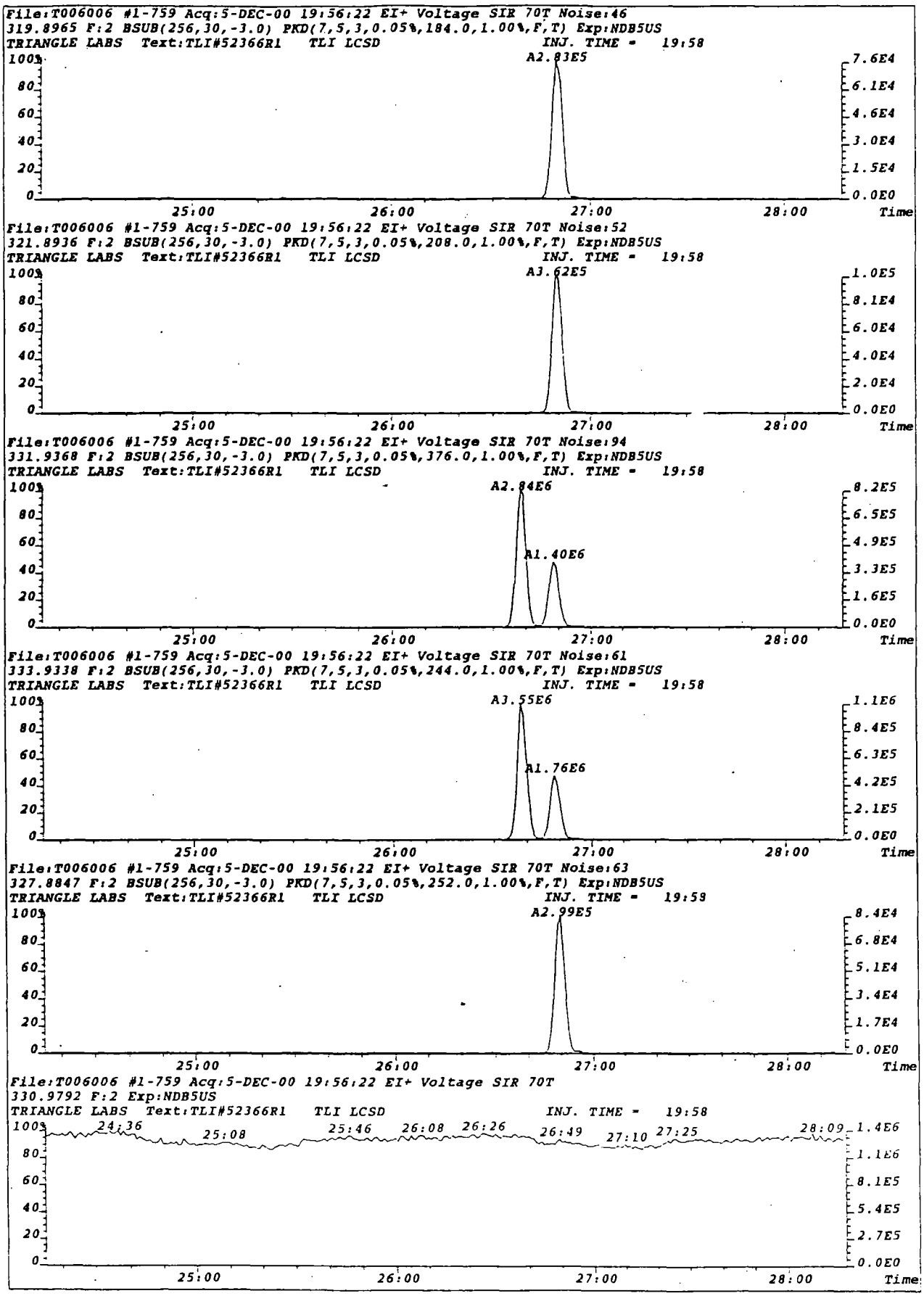
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A3.96E5
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:56
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,224.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A4.71E5
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:74
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,296.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.66E6
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:60
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,240.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A2.24E6
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
23:15 23:48 24:30 24:49 25:08 25:46 26:26 26:49 27:25 28:09
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
23:26 23:44 24:10 24:33 24:57 25:26 25:52 26:08 26:30 26:49 27:06 27:46 28:04
23:00 24:00 25:00 26:00 27:00 28:00 Time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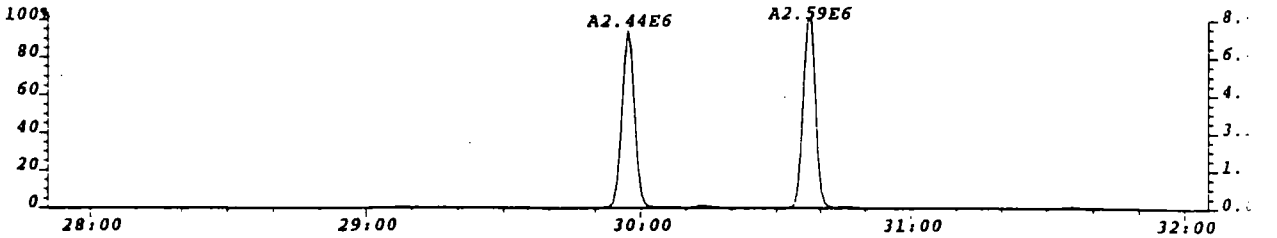
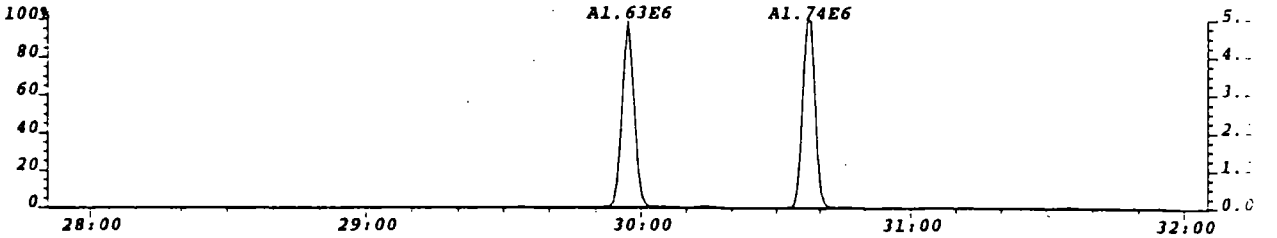
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,184.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A2.83E5
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:52
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,208.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A3.62E5
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:94
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,376.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A2.84E6
A1.40E6
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:61
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,244.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A3.55E6
A1.76E6
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:63
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:59
A2.99E5
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
24:36
25:08
25:46
26:08
26:26
26:49
27:10
27:25
28:09
25:00
26:00
27:00
28:00
Time

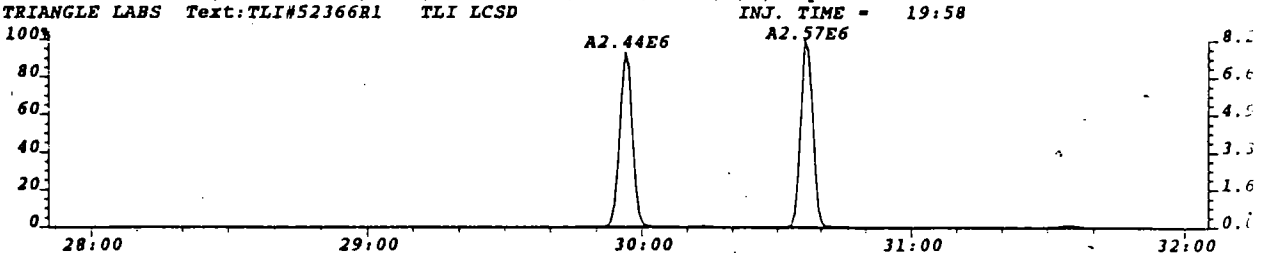
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:53
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58



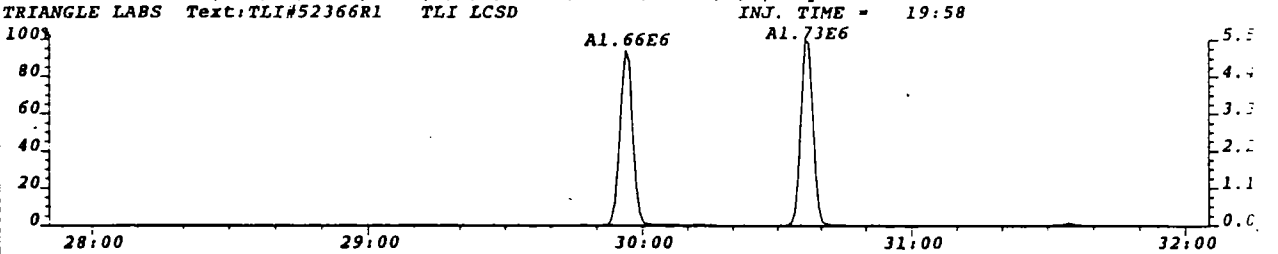
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:65
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58



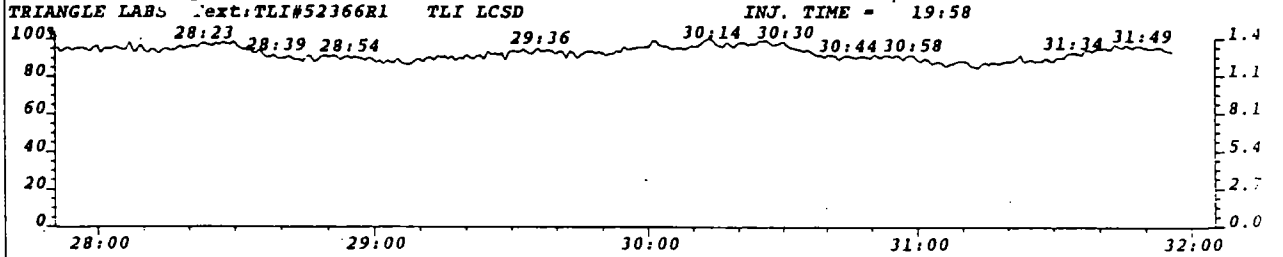
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:50
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58



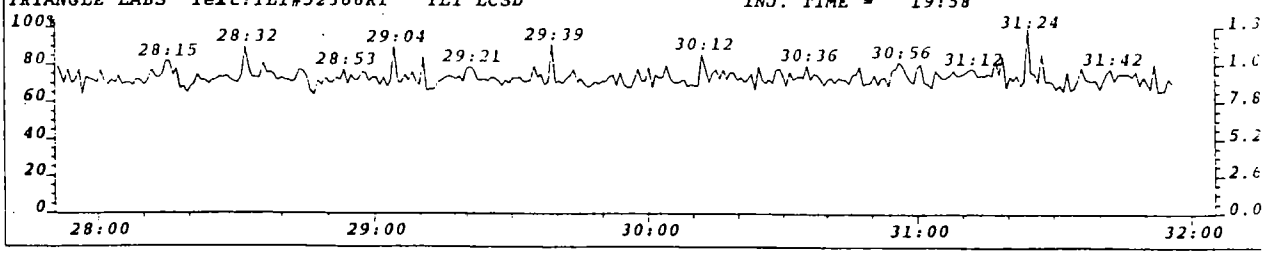
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:48
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,192.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58

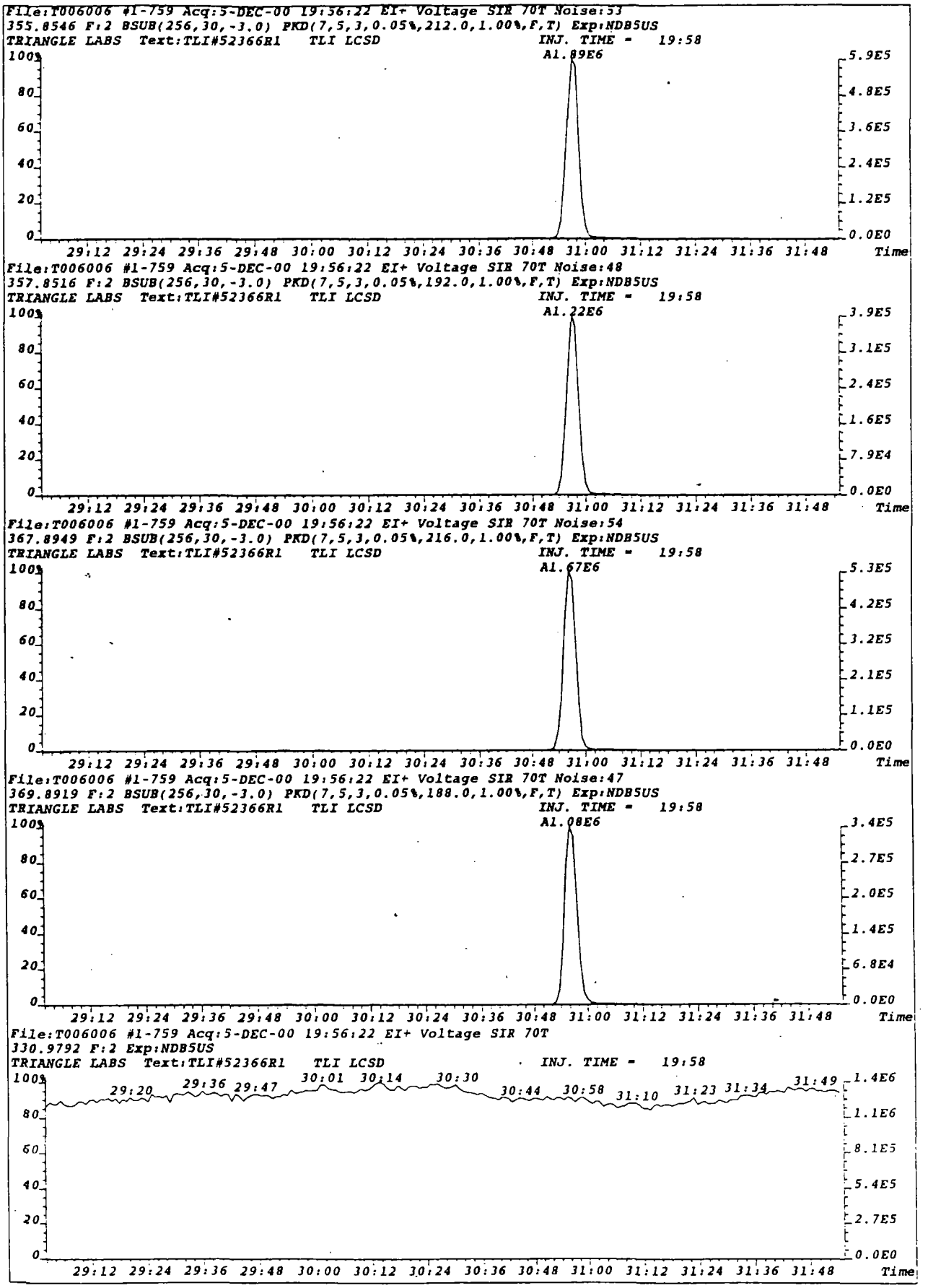


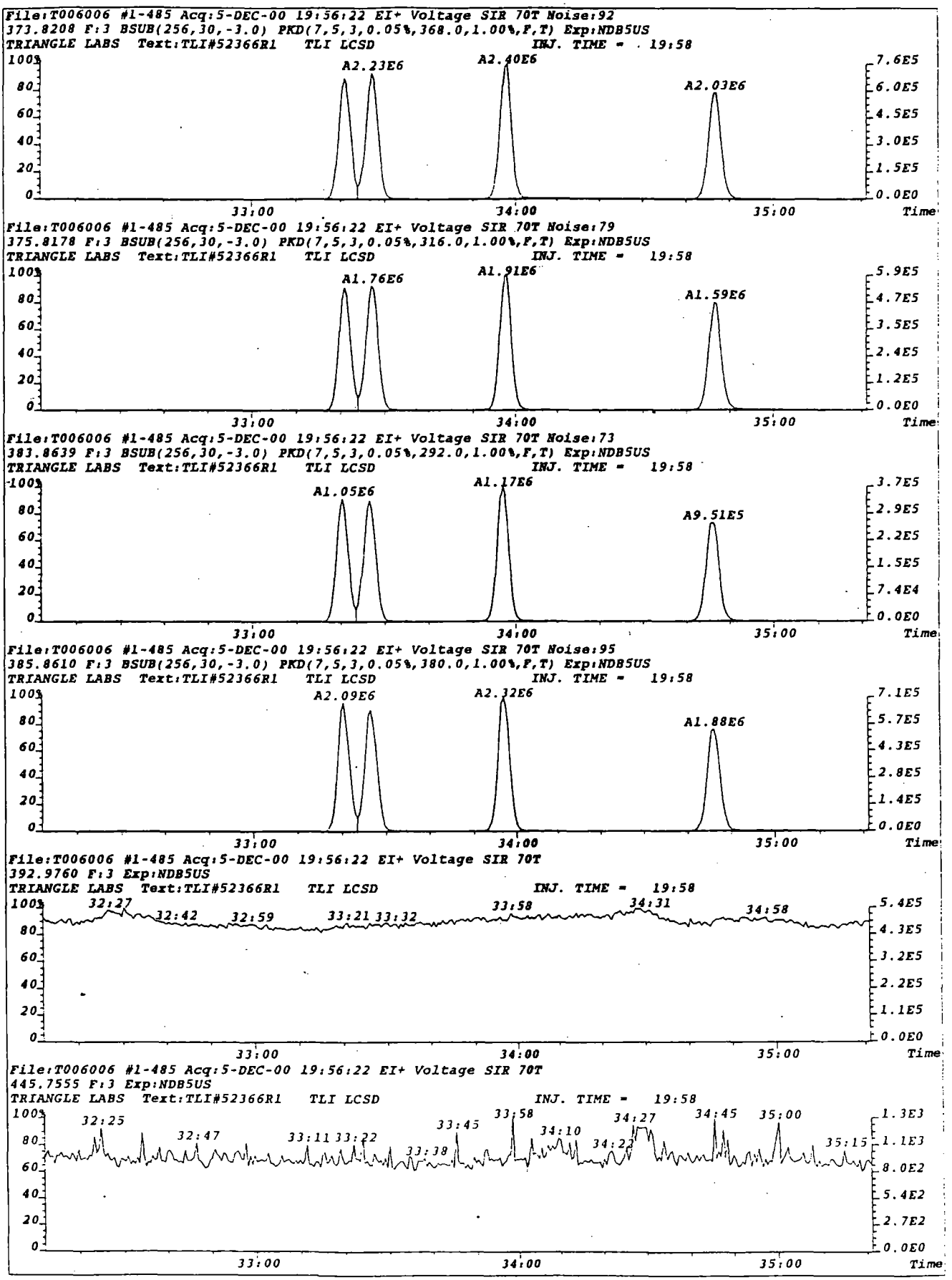
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58

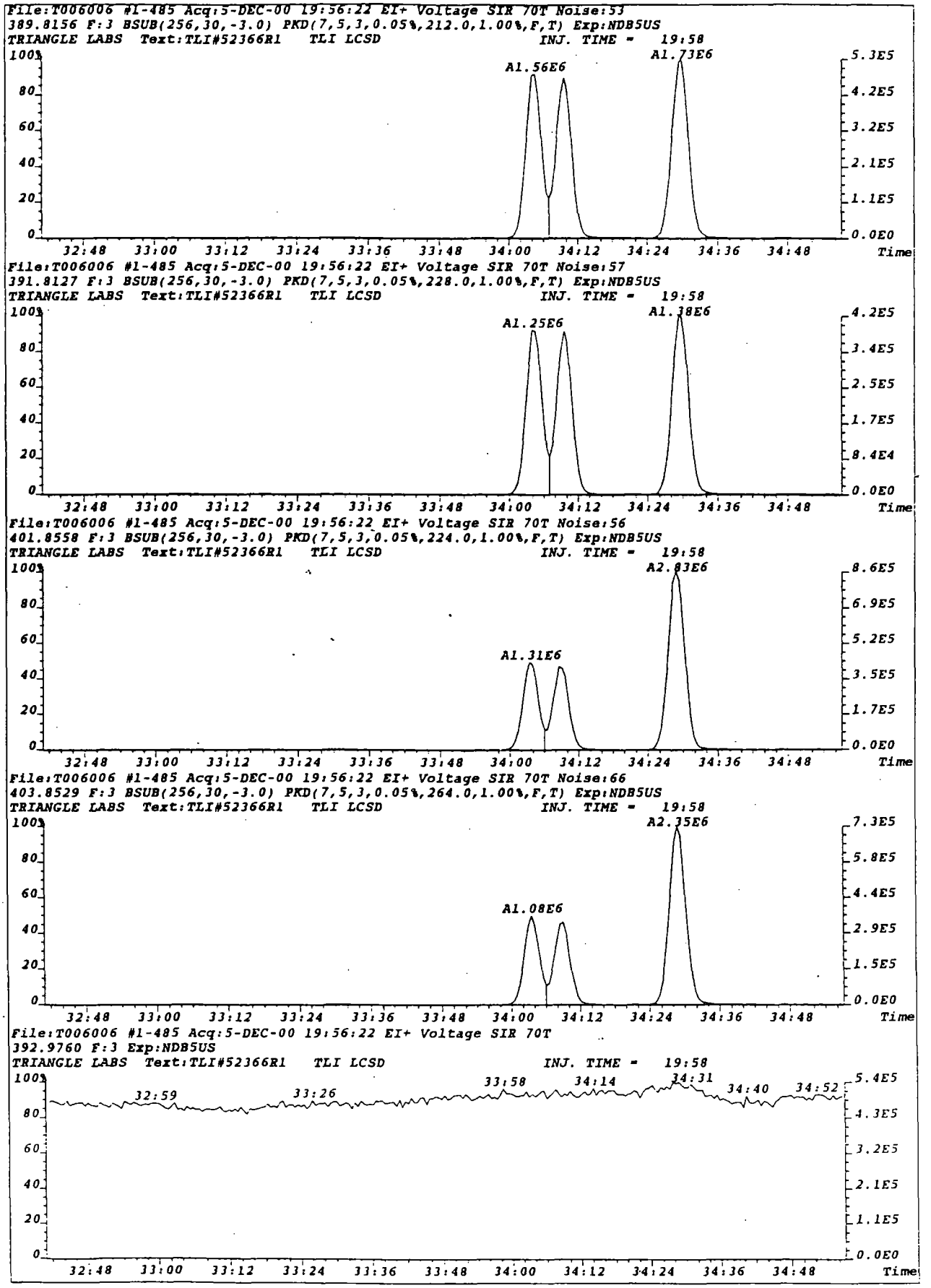


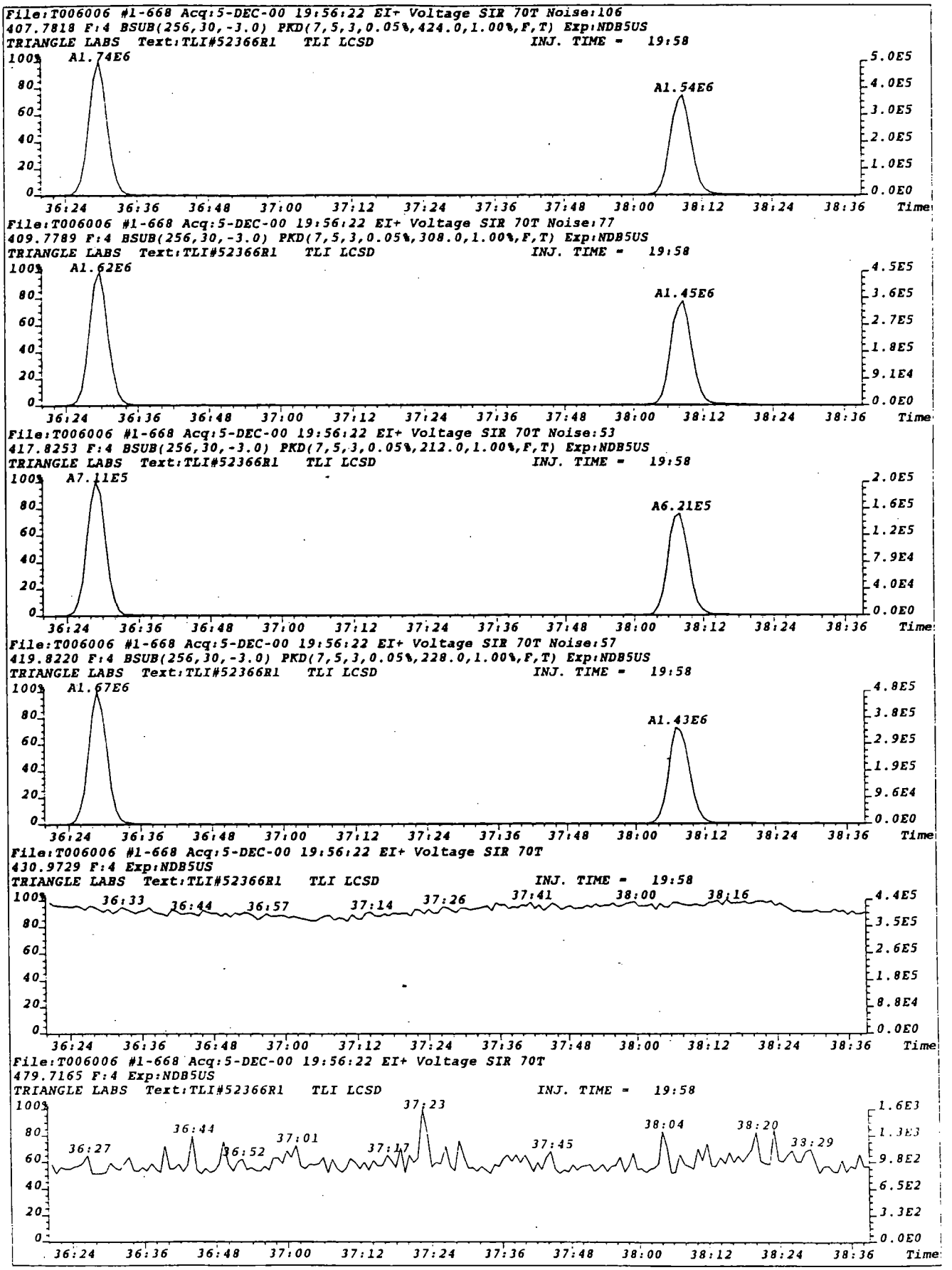
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58

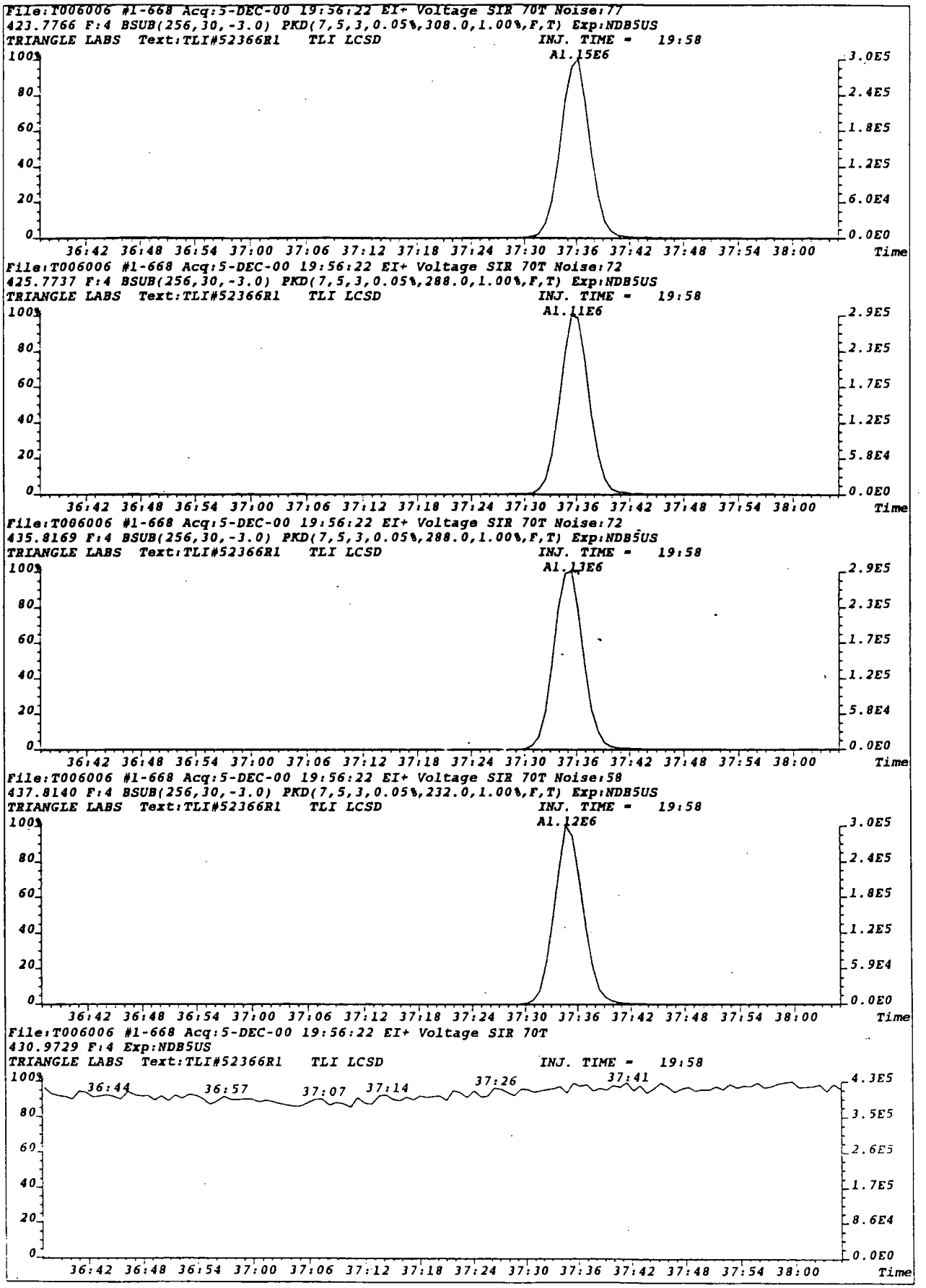


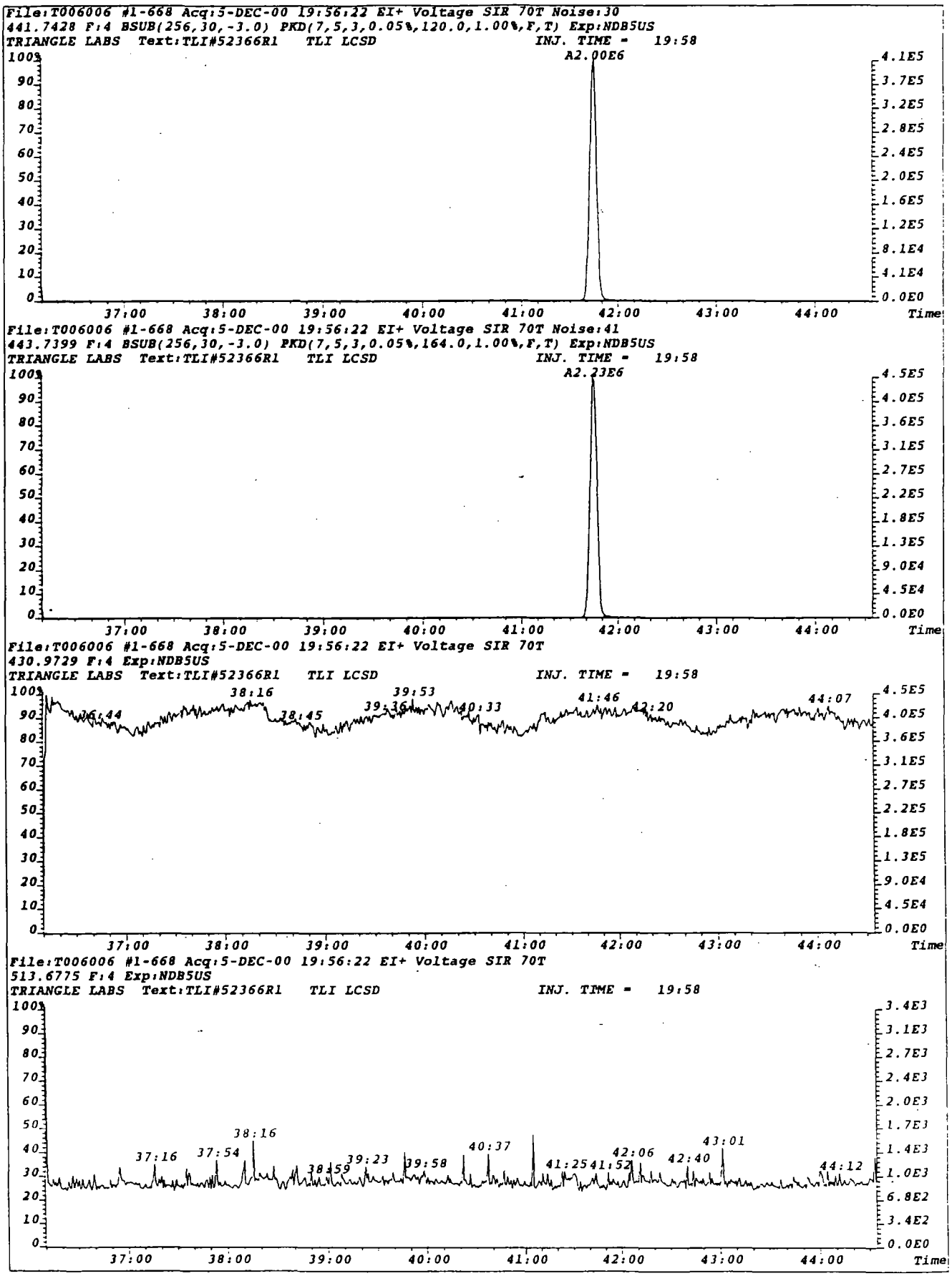

File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:53
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD
INJ. TIME = 19:58
A1.89E6
5.9E5
4.8E5
3.6E5
2.4E5
1.2E5
0.0E0
29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 30:48 31:00 31:12 31:24 31:36 31:48
Time
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:48
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,192.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD
INJ. TIME = 19:58
A1.22E6
3.9E5
3.1E5
2.4E5
1.6E5
7.9E4
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
Time
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:54
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,216.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD
INJ. TIME = 19:58
A1.67E6
5.3E5
4.2E5
3.2E5
2.1E5
1.1E5
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
Time
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:47
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,188.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD
INJ. TIME = 19:58
A1.08E6
3.4E5
2.7E5
2.0E5
1.4E5
6.8E4
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
Time
File:T006006 #1-759 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD
INJ. TIME = 19:58
29:20 29:36 29:47 30:01 30:14 30:30 30:44 30:58 31:10 31:23 31:34 31:49
1.4E6
1.1E6
8.1E5
5.4E5
2.7E5
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
Time

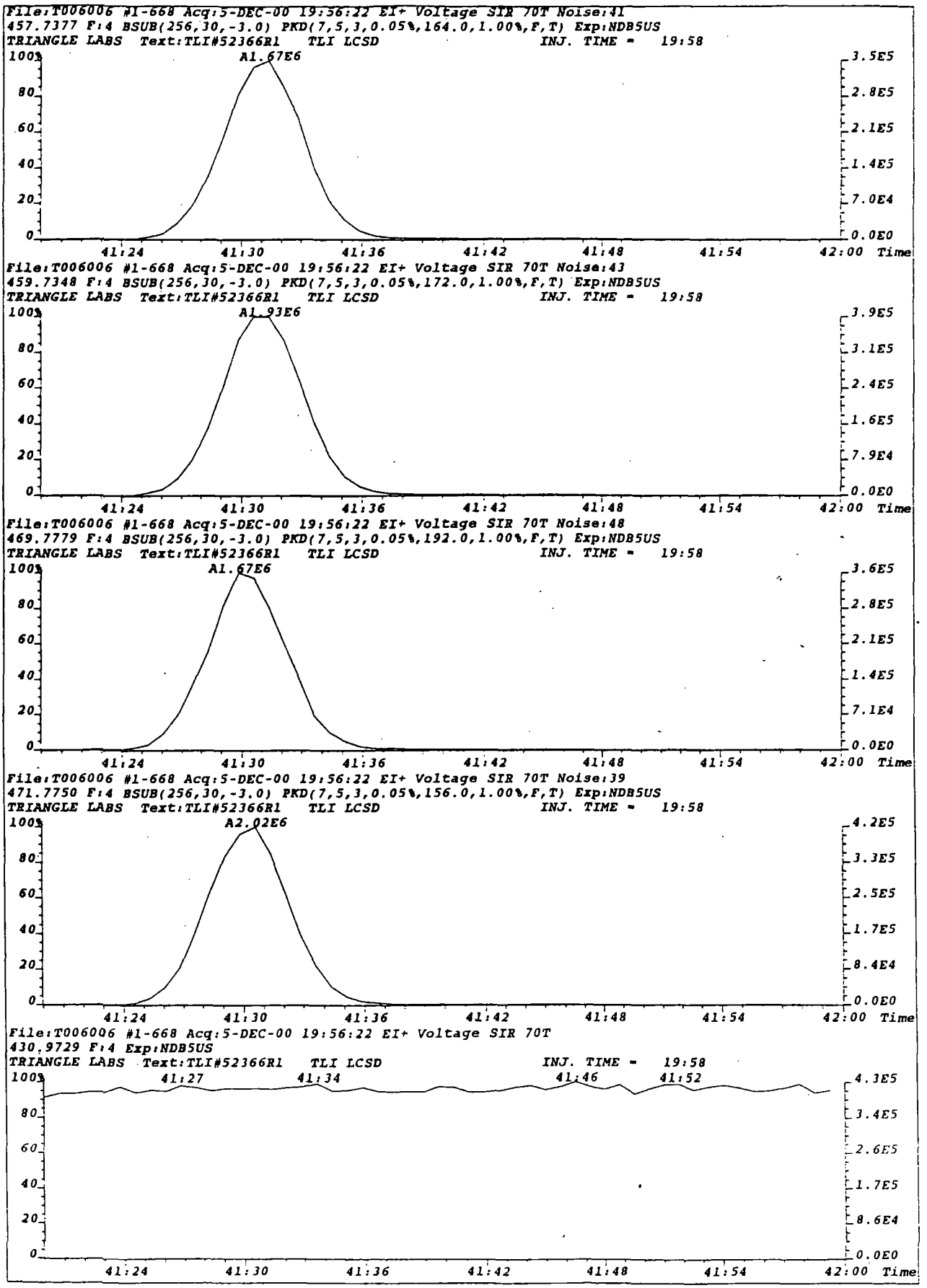

File:T006006 #1-485 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:92
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,368.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A2.23E6
A2.40E6
A2.03E6
File:T006006 #1-485 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:79
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.76E6
A1.91E6
A1.59E6
File:T006006 #1-485 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:73
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,292.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.05E6
A1.17E6
A9.51E5
File:T006006 #1-485 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:95
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,380.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A2.09E6
A2.32E6
A1.88E6
File:T006006 #1-485 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
File:T006006 #1-485 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
33:00
34:00
35:00
Time

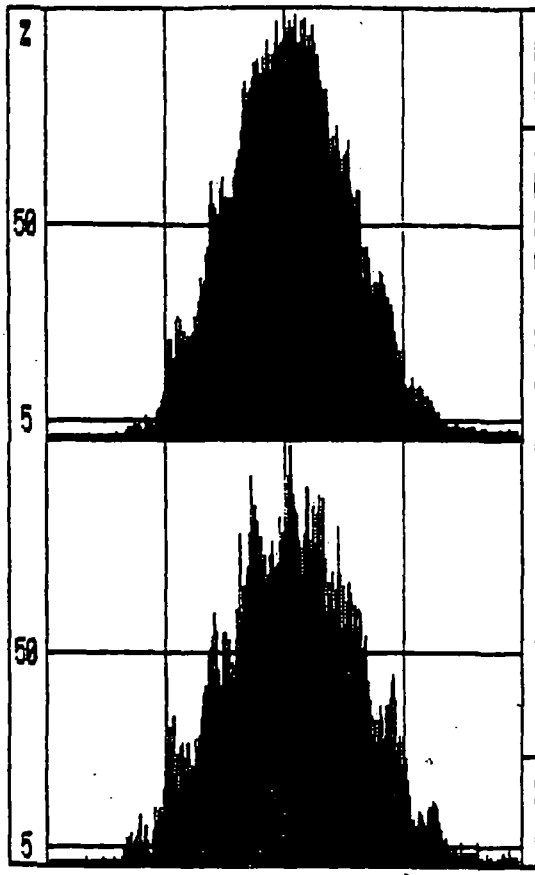

File:T006006 #1-485 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:53
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.56E6
A1.73E6
File:T006006 #1-485 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:57
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,228.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.25E6
A1.38E6
File:T006006 #1-485 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:56
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,224.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.31E6
A2.83E6
File:T006006 #1-485 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:66
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,264.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.08E6
A2.35E6
File:T006006 #1-485 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
32:59
33:26
33:58
34:14
34:31
34:40
34:52
32:48
33:00
33:12
33:24
33:36
33:48
34:00
34:12
34:24
34:36
34:48
Time


File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:106
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,424.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.74E6
A1.54E6
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:77
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.62E6
A1.45E6
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:53
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A7.11E5
A6.21E5
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:57
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,228.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.67E6
A1.43E6
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
Time

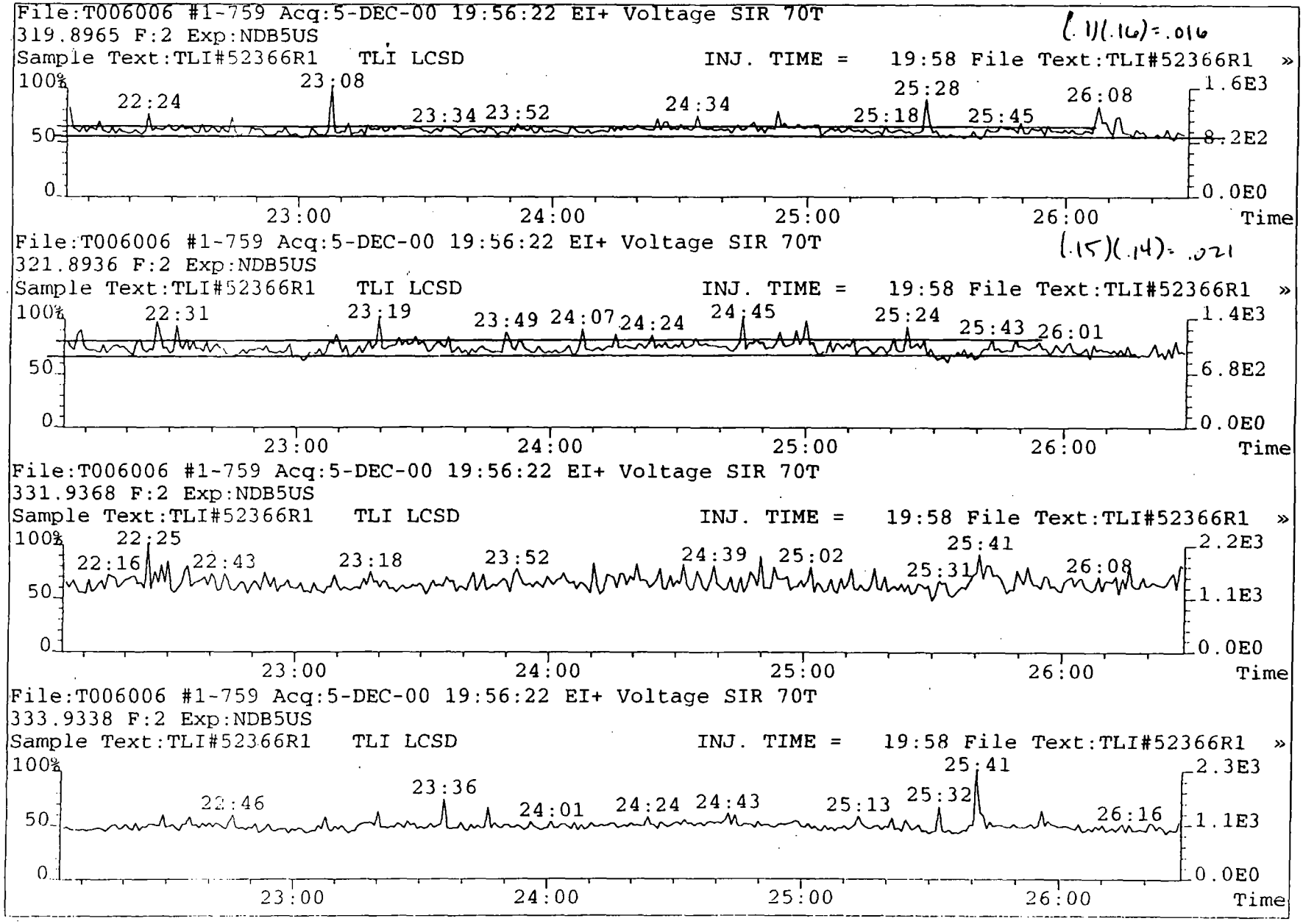

File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:77
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.15E6
3.0E5
2.4E5
1.8E5
1.2E5
6.0E4
0.0E0
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00 Time
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:72
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,288.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.11E6
2.9E5
2.3E5
1.7E5
1.2E5
5.8E4
0.0E0
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00 Time
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:72
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,288.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.13E6
2.9E5
2.3E5
1.7E5
1.2E5
5.8E4
0.0E0
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00 Time
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:58
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.12E6
3.0E5
2.4E5
1.8E5
1.2E5
5.9E4
0.0E0
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00 Time
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
36:44
36:57
37:07
37:14
37:26
37:41
4.3E5
3.5E5
2.6E5
1.7E5
8.6E4
0.0E0
36:42 36:48 36:54 37:00 37:06 37:12 37:18 37:24 37:30 37:36 37:42 37:48 37:54 38:00 Time


File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:30
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,120.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD
INJ. TIME = 19:58
A2.00E6
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:41
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,164.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD
INJ. TIME = 19:58
A2.23E6
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD
INJ. TIME = 19:58
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD
INJ. TIME = 19:58
Time


File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:41
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,164.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.67E6
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:43
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.93E6
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:48
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,192.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A1.67E6
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T Noise:39
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
A2.02E6
File:T006006 #1-668 Acq:5-DEC-00 19:56:22 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#52366R1 TLI LCSD INJ. TIME = 19:58
41:27
41:34
41:46
41:52
41:24
41:30
41:36
41:42
41:48
41:54
42:00
Time



Channel	I	330.9792		Peak top	
Height	.68 volts		Span	200 ppm	
System file name				NOBSUS	
Data file name				A:TD05003	
Resolution				10000	
Group number				2	
Ionization mode				EI+	
Switching				VOLTAGE	
Ref. masses	292.9825,			416.9760	
A	293	J	331	S	368
B	304	K	332	T	370
C	306	L	334	U	376
D	316	M	340	V	410
E	318	N	342		
F	320	O	352		
G	322	P	354		
H	328	Q	356		
I	331	R	358		
Ref. mass	416.9760			Peak top	
Height	.13 volts		Span	200 ppm	

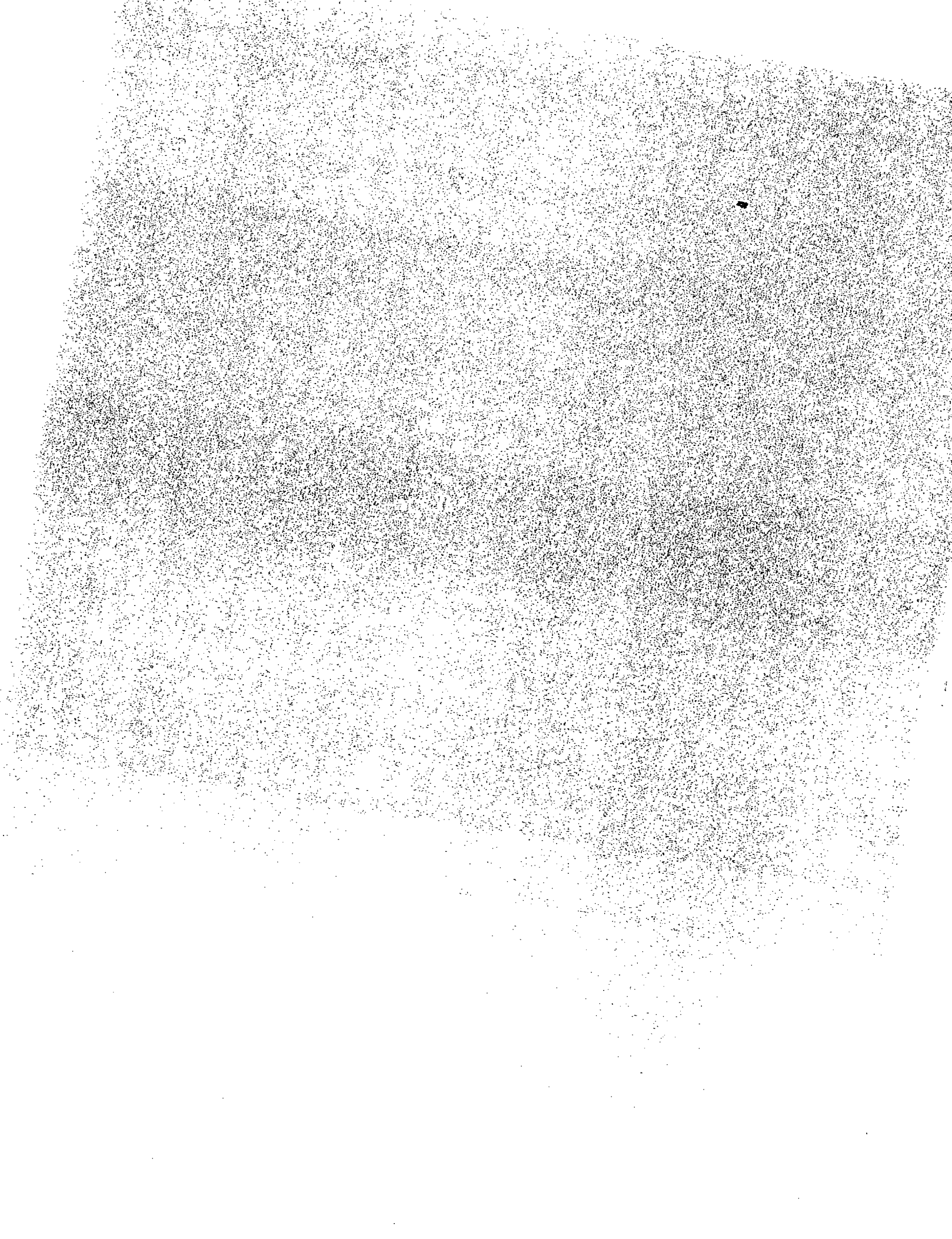


(.1)(.16)=.016

(.15)(.14)=.021

.016
.021
.037

JCA
12/13/00



TLI Project: **52366** Method 8290 PCDD/PCDF Analysis
Client Sample: **BASF-SMW-5** Analysis File: **T0058**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/2000**	Spike File:	**SPMIT32S**
TLI ID:	**274-99-1A**	Date Extracted:	**11/21/2000**	ICal:	**TF57140**
		Date Analyzed:	**11/25/2000**	ConCal:	**T005815**
Sample Size:	**1.070 L**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005817**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flag
2,3,7,8-TCDD	EMPC		44.8			
1,2,3,7,8-PeCDD	EMPC		131			
1,2,3,4,7,8-HxCDD	ND	36.2				
1,2,3,6,7,8-HxCDD	985			1.20	32:53	
1,2,3,7,8,9-HxCDD	397			1.22	33:12	
1,2,3,4,6,7,8-HpCDD	12380			1.03	36:06	
1,2,3,4,6,7,8,9-OCDD	81410			0.82	39:40	E
2,3,7,8-TCDF	405			0.85	24:39	
1,2,3,7,8-PeCDF	ND	27.6				
2,3,4,7,8-PeCDF	ND	27.2				
1,2,3,4,7,8-HxCDF	262			1.23	32:07	
1,2,3,6,7,8-HxCDF	EMPC		74.3			
2,3,4,6,7,8-HxCDF	66.6			1.29	32:41	
1,2,3,7,8,9-HxCDF	ND	34.5				
1,2,3,4,6,7,8-HpCDF	270			1.19	35:04	
1,2,3,4,7,8,9-HpCDF	76.8			1.05	36:35	
1,2,3,4,6,7,8,9-OCDF	403			0.84	39:52	

Totals	Conc. (pg/L)	Number	DL	EMPC	Flag
Total TCDD	1710	2		1920	
Total PeCDD	189	2		738	
Total HxCDD	7990	5			
Total HpCDD	22250	2			
Total TCDF	5380	11		6250	
Total PeCDF	2950	4		3990	
Total HxCDF	1690	6		1830	
Total HpCDF	643	3		734	

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Printed: 09:26 11/25/2

TLI Project: 52366 Method 8290 PCDD/PCDF Analysis (
Client Sample: BASF-SMW-5 Analysis File: T0058

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	124	6.65	40%-130%	0.77	24:37	V___
$^{13}C_{12}$-2,3,7,8-TCDD	102	5.47	40%-130%	0.83	25:21	V___
$^{13}C_{12}$-1,2,3,7,8-PeCDF	66.3	3.55	40%-130%	1.45	28:37	V___
$^{13}C_{12}$-1,2,3,7,8-PeCDD	75.1	4.02	40%-130%	1.50	29:40	V___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	82.6	4.42	40%-130%	0.52	32:12	V___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	92.0	4.92	40%-130%	1.26	32:52	V___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	89.2	4.77	25%-130%	0.45	35:04	V___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	107	5.73	25%-130%	1.06	36:05	V___
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	143	3.82	25%-130%	0.81	39:40	V___

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	73.4	3.92	40%-130%	1.50	29:20	V___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	83.7	4.48	40%-130%	0.49	32:06	V___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	82.1	4.39	40%-130%	1.17	32:48	V___
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	79.2	4.24	25%-130%	0.46	36:35	V___

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	149	79.7	40%-130%	25:23	___

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	88.8	4.75	40%-130%	0.48	33:26	V___
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	84.9	4.54	40%-130%	0.52	32:41	V___

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.81	25:09	___
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.19	33:11	___

Data Reviewer: _____ 11/25/2000

MFT3_PSR v1.00, LARS 6.

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Printed: 09:26 11/25/20

Chromatographic Calculations For File:T005818

QC Front End.....: 1.8611
Tetra/Hexa RS Ratio: 1.4226

Initial ....Date...

Data Review By: _____ ___/___/___

Calculated Noise Height: 0.05

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 T005818B.dbf
11/25/2000 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					0.860-1.077				
304-306	DC	NL		Height			0.13	0.07	0.06				
				21:22	RO	0.95	1.38	0.60	0.63	0.868	1368-TCDF		AN
				21:50		0.82	7.19	3.23	3.96	0.887			
				22:10		0.89	1.93	0.91	1.02	0.900			
				22:33		0.83	4.19	1.90	2.29	0.916			
				22:56	RO	0.92	5.08	2.21	2.41	0.932			
				23:18		0.75	4.36	1.87	2.49	0.947			
				23:34		0.84	3.16	1.44	1.72	0.957			
				24:00		0.80	2.41	1.07	1.34	0.975			
				24:09		0.82	30.85	13.88	16.97	0.981			
				24:28	RO	0.93	1.72	0.75	0.81	0.994			
				24:39		0.85	13.80	6.34	7.46	1.001	2378-TCDF		AN
				25:04	RO	0.99	4.00	1.74	1.76	1.018			
				25:18		0.88	2.54	1.19	1.35	1.028			
				25:28	RO	0.90	16.00	6.96	7.75	1.035			
				25:45		0.83	51.30	23.27	28.03	1.046			
				26:04		0.81	61.54	27.62	33.92	1.059			
				26:31	RO	2.68	1.49	2.25	0.84	1.077			
	DC	WH		26:41		0.80	24.65			1.084			
304-306			17	Peaks			212.94						
13C12-TCDF				0.65-0.89					0.959-1.041				
316-318	DC	NL		Height			0.12	0.06	0.06				
	DC	WL		21:21	RO	0.45	0.41			0.867			
	DC	WL		23:30	RO	0.63	0.46			0.955			
	DC	SN		23:37	RO	1.18	0.30			0.959			
				24:12		0.71	0.84	0.35	0.49	0.983			
				24:37		0.77	62.21	27.16	35.05	1.000	13C12-2378-TCDF		ISO
				Height			16.56	7.52	9.04				
				25:10		0.74	1.32	0.56	0.76	1.022			
	DC	WH		25:52	RO	0.41	0.46			1.051			
	DC	WH		26:21	RO	0.47	0.18			1.070			
	DC	WH		26:38	RO	1.11	0.34			1.082			
316-318			3	Peaks			64.37						
---------- Above: TCDF / TCDD Follows ----------													
TCDD				0.65-0.89					0.890-1.045				
320-322	DC	NL		Height			0.09	0.04	0.05				
	DC	SN		22:34	RO	0.05	0.07			0.890			
				22:46		0.76	24.42	10.57	13.85	0.898	1368-TCDD		AN
				23:10		0.72	9.78	4.08	5.70	0.914	1379-TCDD		AN
	DC	SN		23:55	RO	0.23	0.11			0.943			

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.
				24:11	RO	0.62	2.83	1.23	1.97	0.954			
				24:30	RO	0.39	0.55	0.24	0.62	0.966			
	DC	SN		24:35		0.86	0.13			0.970			
	DC	SN		24:44	RO	0.20	0.09			0.976			
	DC	SN		24:51		0.74	0.47			0.980			
	DC	SN		25:10	RO	2.06	0.28			0.993			
				25:23	RO	0.61	0.92	0.40	0.66	1.001	2378-TCDD		AN
	DC	SN		26:07	RO	1.63	0.14			1.030			
	DC	SN		26:23	RO	1.19	0.28			1.041			
320-322			5	Peaks			38.50						
37Cl-TCDD										0.921-1.079			
328	DC	NL			Height		0.07	0.07					
	DC	WL		23:02			5.41			0.909			
	DC	WL		23:10			6.28			0.914			
				23:30			1.00	1.00		0.927			
				23:57			520.23	520.23		0.945			
				25:23			51.74	51.74		1.001	37Cl-TCDD		CLS
				25:45			4.32	4.32		1.016			
				26:42			3.96	3.96		1.053			
328			5	Peaks			581.25						
13C12-TCDD						0.65-0.89				0.921-1.079			
332-334	DC	NL			Height		0.24	0.19	0.05				
				23:36	RO	2.40	0.35	0.48	0.20	0.931			
				25:09		0.81	729.40	326.79	402.61	0.992	13C12-1234-TCDD		RS1
				25:21		0.83	41.95	19.07	22.88	1.000	13C12-2378-TCDD		IS1
					Height		11.43	5.11	6.32				
332-334			3	Peaks			771.70						
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF						1.32-1.78				0.923-1.064			
340-342	DC	NL			Height		0.10	0.04	0.06				
				26:37		1.60	3.28	2.02	1.26	0.930			
	DC	SN		26:54	RO	0.73	0.13			0.940			
	DC	SN		27:22	RO	0.78	0.30			0.956			
				27:46		1.47	5.66	3.37	2.29	0.970			
				27:57	RO	1.17	0.59	0.27	0.23	0.977			J
				28:03	RO	1.13	1.40	0.62	0.55	0.980			
				28:15	RO	1.15	1.02	0.46	0.40	0.987			
				28:21	RO	2.71	0.43	0.46	0.17	0.[illegible]			J
				28:42		1.53	28.29	17.12	11.17	1.003			
				28:56	RO	1.18	6.15	2.85	2.41	1.011			
				29:21	RO	1.10	2.55	1.10	1.00	1.026			
				29:31	RO	1.13	2.19	0.97	0.86	1.031			
	DC	SN		29:42	RO	0.58	0.18			1.038			
				29:56	RO	1.08	1.53	0.65	0.60	1.046			
				30:03		1.49	7.69	4.60	3.09	1.050			
	DC	WH		30:31	RO	1.86	0.36			1.066			
340-342			12	Peaks			60.78						

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.
13C12-PeCDF				1.32-1.78						0.860-1.140			
352-354	DC	NL		Height			0.08	0.03	0.05				
				26:22	RO	0.88	0.58	0.35	0.40	0.921			
	DC	SN		26:53	RO	0.31	0.18			0.939			
	DC	SN		27:02	RO	3.40	0.13			0.945			
	DC	SN		27:19	RO	0.50	0.12			0.955			
	DC	SN		27:29	RO	1.17	0.15			0.960			
	DC	SN		28:15	RO	1.13	0.20			0.987			
	DC	SN		28:20	RO	1.13	0.20			0.990			
				28:37		1.45	31.01	18.35	12.66	1.000	13C12-PeCDF 123	IS2	
				Height			9.27	5.49	3.78				
	DC	SN		28:54		1.50	0.35			1.010			
	DC	SN		29:02	RO	1.21	0.36			1.015			
				29:20		1.50	33.98	20.38	13.60	1.025	13C12-PeCDF 234	SUR1	
	DC	SN		29:37	RO	1.26	0.69			1.035			
	DC	SN		30:04	RO	1.05	0.54			1.051			
	DC	SN		30:09	RO	2.29	0.18			1.054			
				30:18	RO	1.20	0.64	0.30	0.25	1.059			
	DC	SN		30:33		1.73	0.30			1.068			
	DC	SN		30:41	RO	0.54	0.12			1.072			
352-354		4 Peaks					66.21						

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

PeCDD				1.32-1.78						0.933-1.021			
356-358	DC	NL		Height			0.09	0.05	0.04				
	DC	SN		28:06	RO	0.01	0.05			0.947			
				28:37		1.53	1.19	0.72	0.47	0.965			
				28:45	RO	1.25	3.21	1.58	1.26	0.969			
				28:56		1.47	0.94	0.56	0.38	0.975			
	DC	SN		29:05		1.50	0.20			0.980			
				29:09	RO	1.86	0.92	0.67	0.36	0.983			
	DC	SN		29:23	RO	3.50	0.20			0.990			
	DC	SN		29:30	RO	1.04	0.61			0.994			
				29:40	RO	1.29	1.48	0.75	0.58	1.000	12378-PeCDD		AN
				29:50	RO	0.35	0.59	0.36	1.02	1.006			
	DC	SN		30:09		1.42	0.58			1.016			
356-358		6 Peaks					8.33						
13C12-PeCDD				1.32-1.78						0.865-1.135			
368-370	DC	NL		Height			0.09	0.05	0.04				
	DC			27:47	RO	6.50	0.15			0.937			
	DC	SN		27:56		1.71	0.19			0.942			
	DC	SN		28:33	RO	3.25	0.20			0.962			
	DC	SN		28:43	RO	3.27	0.28			0.968			
	DC	SN		29:02	RO	0.41	0.20			0.979			
				29:40		1.50	19.98	11.98	8.00	1.000	13C12-PeCDD 123	IS3	
				Height			6.29	3.76	2.53				
368-370		1 Peak					19.98						

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

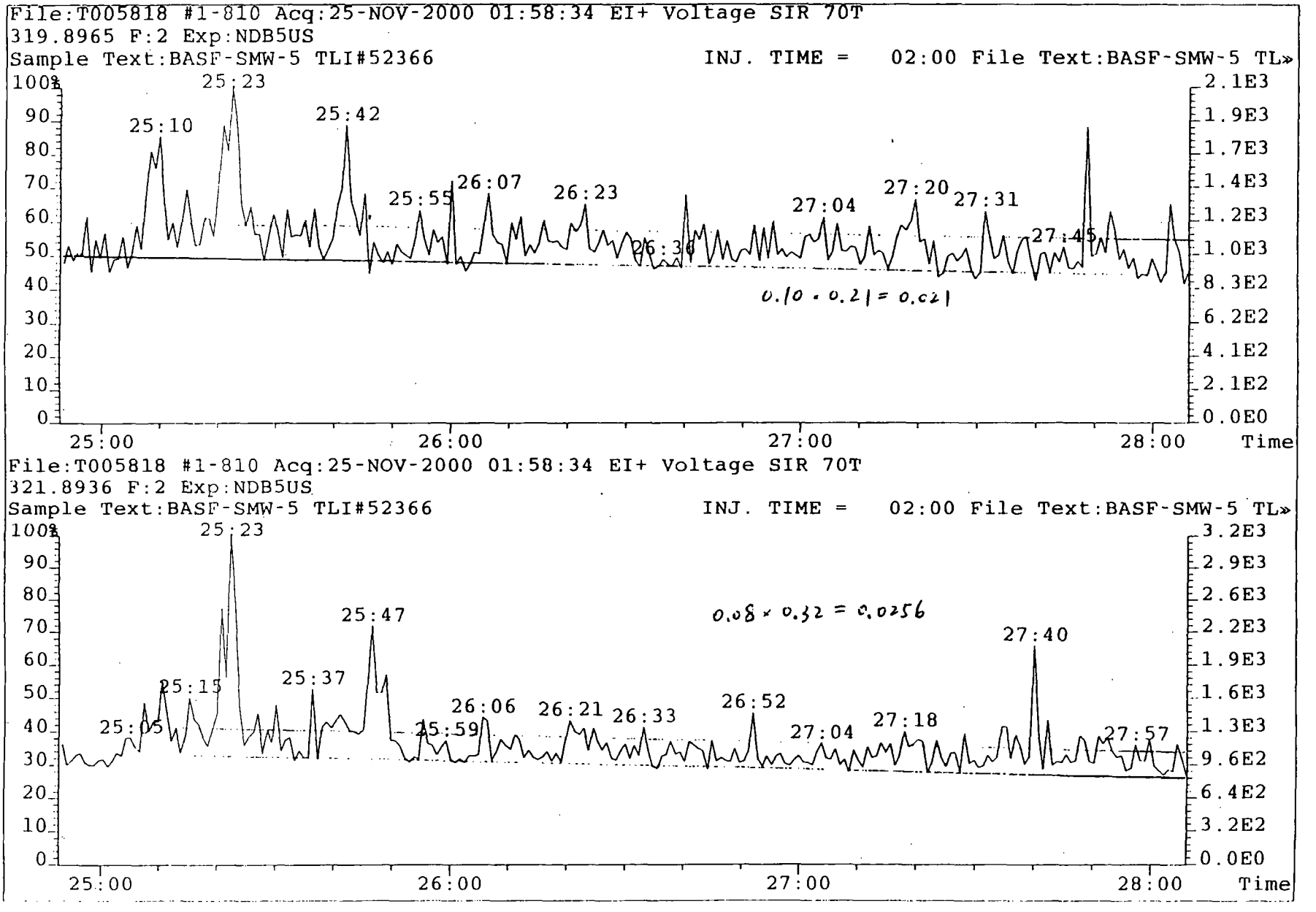
Compound/ M_Z....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
HxCDF				1.05-1.43						0.961-1.046			
374-376	DC	NL		Height			0.08	0.04	0.04				
				31:08		1.23	0.69	0.38	0.31	0.967			
				31:16		1.34	2.71	1.55	1.16	0.971			
	DC	SN		31:29	RO	0.25	0.07			0.978			
	DC	SN		31:33	RO	2.11	0.20			0.980			
				31:44		1.31	5.33	3.02	2.31	0.986			
				31:58	RO	1.76	0.65	0.51	0.29	0.993			J
				32:07		1.23	3.91	2.16	1.75	0.997	123478-HxCDF	AN	
				32:14	RO	1.44	1.16	0.75	0.52	1.001	123678-HxCDF	AN	
				32:23		1.32	10.33	5.88	4.45	1.006			
	DC	SN		32:30	RO	2.00	0.11			1.009			
	DC	SN		32:32	RO	2.75	0.09			1.010			
				32:41		1.29	0.94	0.53	0.41	1.015	234678-HxCDF	AN	
	DC	SN		33:24	RO	1.69	0.36			1.037			
				33:32	RO	0.86	0.34	0.19	0.22	1.041			J
	DC	SN		33:35	RO	0.25	0.04			1.043			
	DC	WH		33:42	RO	1.67	0.07			1.047			
	DC	WH		33:46	RO	3.00	0.04			1.049			
	DC	WH		33:56	RO	1.50	0.76			1.054			
374-376			9	Peaks			26.06						
13C12-HxCDF				0.43-0.59						0.876-1.124			
384-386	DC	NL		Height			0.09	0.04	0.05				
	DC	SN		31:07	RO	0.39	0.21			0.966			
	DC	SN		31:16	RO	0.88	0.21			0.971			
				32:06		0.49	27.09	8.86	18.23	0.997	13C12-HxCDF 478	SUR2	
				32:12		0.52	27.15	9.23	17.92	1.000	13C12-HxCDF 678	IS4	
				Height			8.53	2.94	5.59				
	DC	SN		32:30	RO	2.50	0.03			1.009			
				32:41		0.52	25.46	8.68	16.78	1.015	13C12-HxCDF 234	ALT2	
				33:26		0.48	19.55	6.36	13.19	1.038	13C12-HxCDF 789	ALT1	
	DC	SN		33:41		0.45	0.16			1.046			
	DC	SN		33:46	RO	1.18	0.17			1.049			
384-386			4	Peaks			99.25						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD				1.05-1.43						0.956-1.013			
390-392	DC	NL		Height			0.11	0.05	0.06				
				31:38		1.18	14.77	8.00	6.77	0.962			
	DC	SN		31:44	RO	0.46	0.11			0.966			
	DC	SN		31:49	RO	0.80	0.07			0.968			
				32:04		1.11	2.43	1.28	1.15	0.976			
				32:18		1.23	50.98	28.13	22.85	0.983			
	DC	SN		32:31	RO	1.50	0.09			0.989			
				32:53		1.20	10.12	5.52	4.60	1.001	123678-HxCDD	AN	
	DC	SN		33:01	RO	2.00	0.16			1.005			
				33:12		1.22	4.12	2.26	1.86	1.010	123789-HxCDD	AN	
390-392			5	Peaks			82.42						

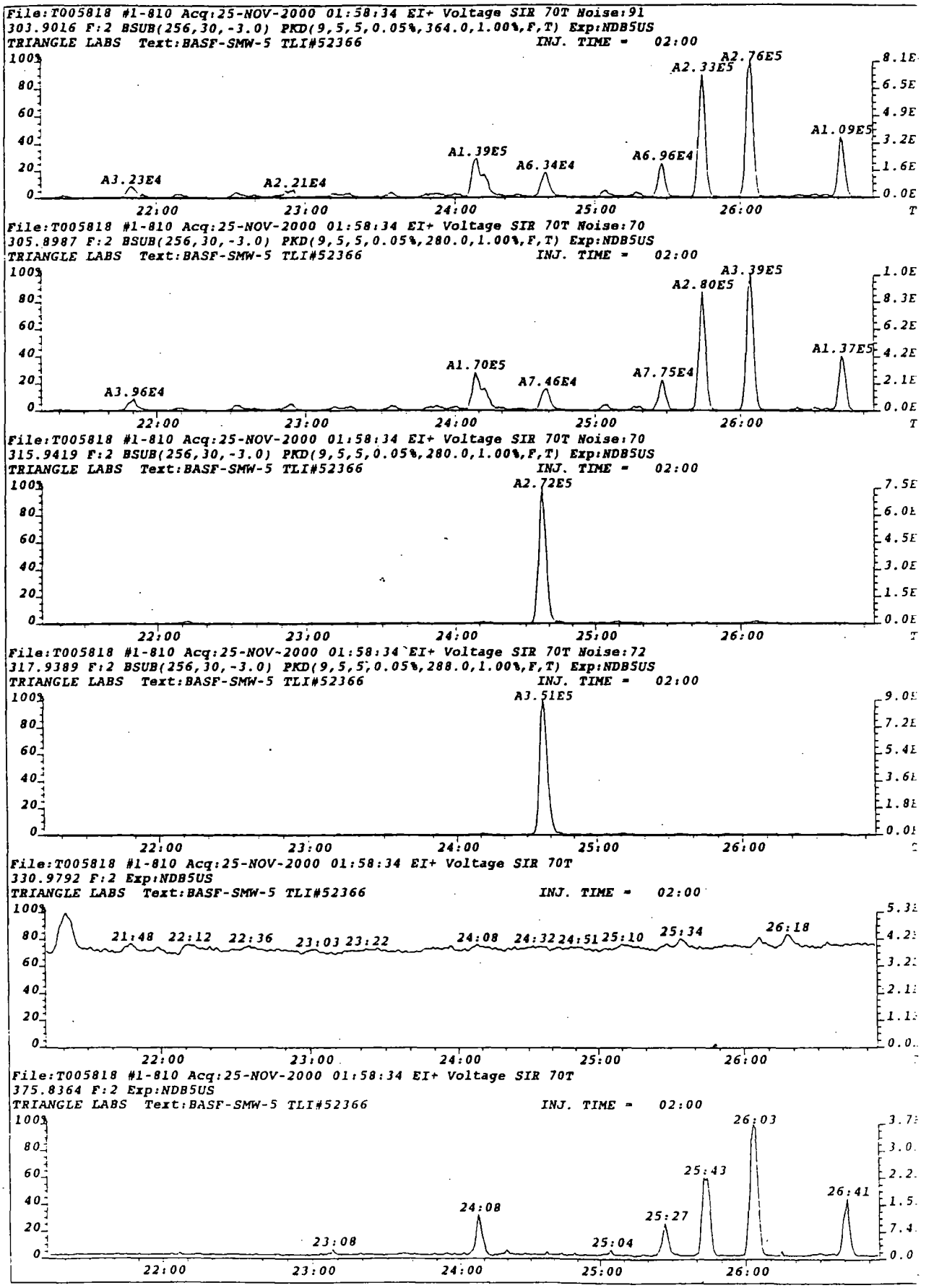
Compound/ M_Z....	QC.Log	Cmit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
13C12-HxCDD				1.05-1.43					0.970-1.030				
402-404	DC	NL		Height			0.08	0.05	0.03				
				32:48		1.17	17.46	9.40	8.06	0.998	13C12-HxCDD 478		SUR3
				32:52		1.26	18.91	10.56	8.35	1.000	13C12-HxCDD 678		IS5
						Height	6.35	3.67	2.68				
				33:11		1.19	423.06	229.71	193.35	1.010	13C12-HxCDD 789		RS2
				33:27	RO	2.91	0.76	0.99	0.34	1.018			
				33:38	RO	1.73	0.25	0.19	0.11	1.023			
402-404			5 Peaks				460.44						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF				0.88-1.20					0.995-1.048				
408-410	DC	NL		Height			0.07	0.04	0.03				
	DC	SN	34:55		RO	1.44	0.18			0.996			
			35:04			1.19	3.55	1.93	1.62	1.000	1234678-HpCDF		AN
			35:19		RO	0.82	1.06	0.54	0.66	1.007			
			35:28			1.02	3.45	1.74	1.71	1.011			
	DC	SN	36:05		RO	0.78	0.27			1.029			
			36:35			1.05	0.78	0.40	0.38	1.043	1234789-HpCDF		AN
	DC	WH	36:53		RO	0.45	0.10			1.052			
	DC	WH	36:59		RO	1.33	0.12			1.055			
408-410			4 Peaks				8.84						
13C12-HpCDF				0.37-0.51					0.943-1.114				
418-420	DC	NL		Height			0.08	0.04	0.04				
			35:04			0.45	19.58	6.03	13.55	1.000	13C12-HpCDF 678		IS6
						Height	6.02	1.73	4.29				
			36:35			0.46	13.53	4.26	9.27	1.043	13C12-HpCDF 789		SUR4
418-420			2 Peaks				33.11						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD				0.88-1.20					0.974-1.005				
424-426	DC	NL		Height			0.17	0.09	0.08				
			35:20			1.04	93.88	47.97	45.91	0.979			
			36:06			1.03	117.81	59.87	57.94	1.000	1234678-HpCDD		AN
	DC	WH	36:19		RO	0.45	0.37			1.006			
	DC	WH	36:24		RO	0.55	0.24			1.009			
424-426			2 Peaks				211.69						
13C12-HpCDD				0.88-1.20					0.972-1.028				
436-438	DC	NL		Height			0.08	0.04	0.04				
			36:05			1.06	20.80	10.69	10.11	1.000	13C12-HpCDD 678		IS7
						Height	5.65	2.92	2.73				
	DC	SN	36:18			0.90	0.19			1.006			
436-438			1 Peak				20.80						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF				0.76-1.02					0.899-1.101				
442-444	DC	NL		Height			0.08	0.04	0.04				

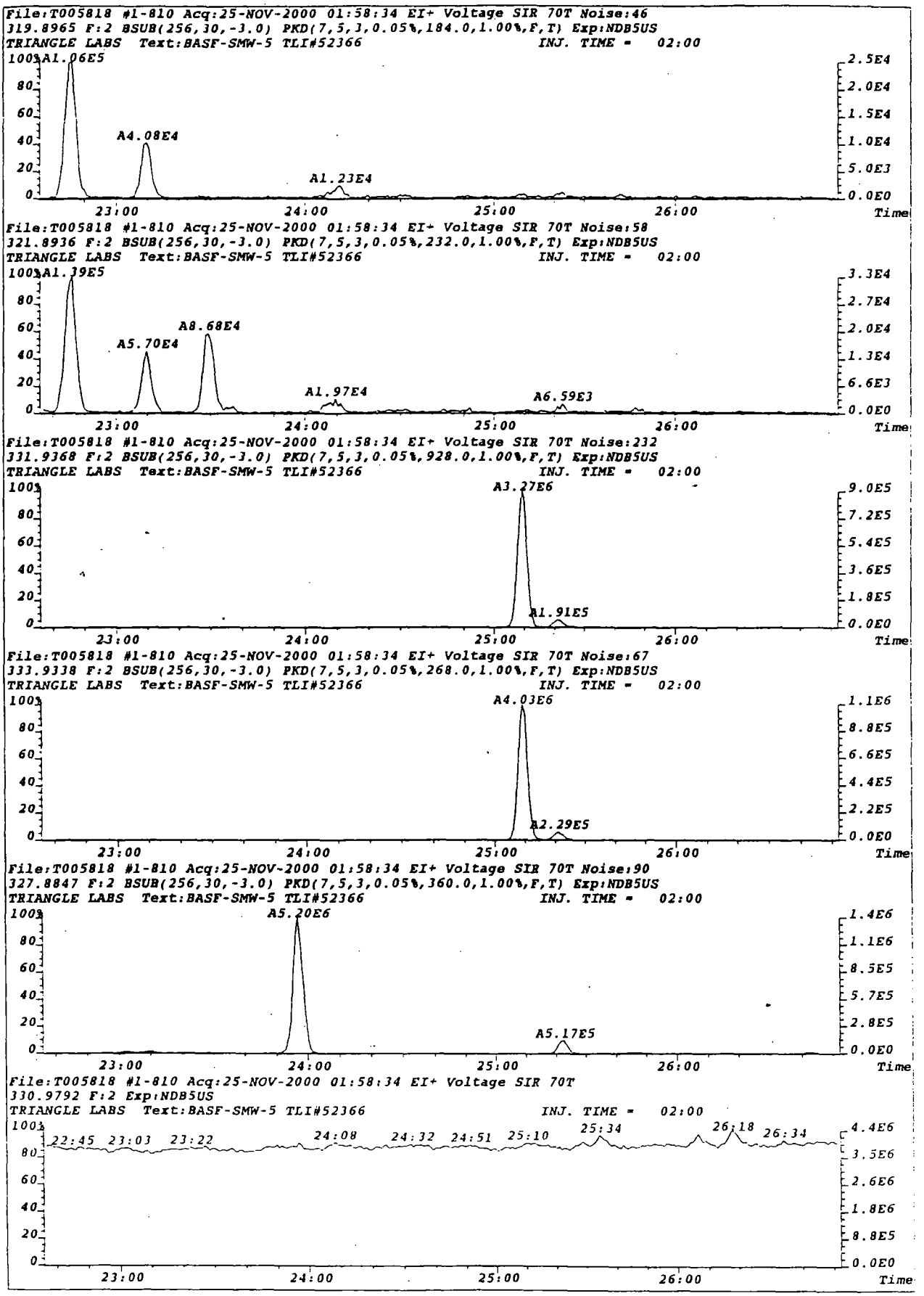
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags
	DC	SN		36:11	RO	1.38	0.15			0.912			
	DC	SN		36:16	RO	0.40	0.04			0.914			
	DC	SN		36:31	RO	1.50	0.08			0.921			
	DC	SN		36:39	RO	0.50	0.08			0.924			
	DC	SN		36:55	RO	0.67	0.04			0.931			
	DC	SN		37:08	RO	0.13	0.04			0.936			
	DC	SN		37:18		1.00	0.06			0.940			
	DC	SN		37:54	RO	12.00	0.02			0.955			
	DC	SN		39:06	RO	1.60	0.09			0.986			
	DC	SN		39:40	RO	0.42	0.21			1.000			
				39:52		0.84	2.67	1.22	1.45	1.005	OCDF	AN	
	DC	SN		40:13	RO	0.40	0.04			1.014			
	DC	SN		40:20		0.78	0.16			1.017			
	DC	SN		40:56	RO	1.17	0.11			1.032			
	DC	SN		41:10	RO	0.33	0.11			1.038			
	DC	SN		42:11		0.90	0.19			1.063			
	DC	SN		42:41	RO	1.10	0.19			1.076			
	DC	SN		42:48	RO	2.67	0.11			1.079			
	DC	SN		43:14	RO	2.25	0.15			1.090			
	DC	SN		43:29	RO	1.33	0.11			1.096			
	DC	SN		43:33	RO	3.25	0.08			1.098			
	DC	WH		43:43	RO	0.33	0.08			1.102			
	DC	WH		43:51	RO	2.14	0.13			1.105			
	DC	WH		44:16	RO	3.00	0.06			1.116			
	DC	WH		44:20	RO	1.63	0.15			1.118			
	DC	WH		44:34	RO	11.00	0.02			1.124			
442-444		1	Peak				2.67						
OCDD				0.76-1.02						0.899-1.101			
458-460	DC	NL		Height			0.07	0.04	0.03				
				39:40		0.82	448.66	202.06	246.60	1.000	OCDD	AN	E
458-460		1	Peak				448.66						
13C12-OCDD				0.76-1.02						0.996-1.004			
470-472	DC	NL		Height			0.06	0.03	0.03				
				39:40		0.81	22.54	10.12	12.42	1.000	13C12-OCDD	IS8	
				Height			4.92	2.22	2.70				
470-472		1	Peak				22.54						

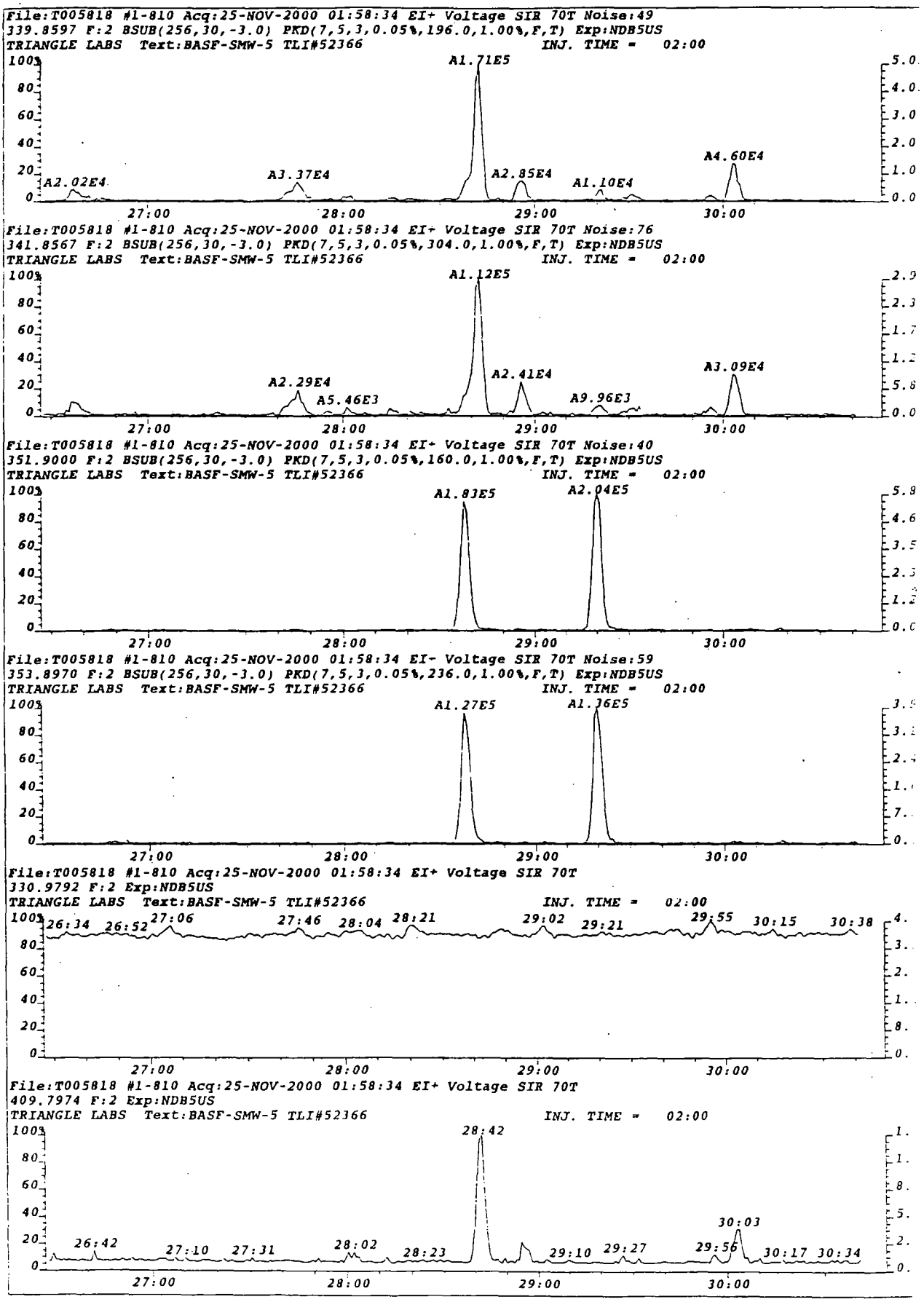
Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside 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

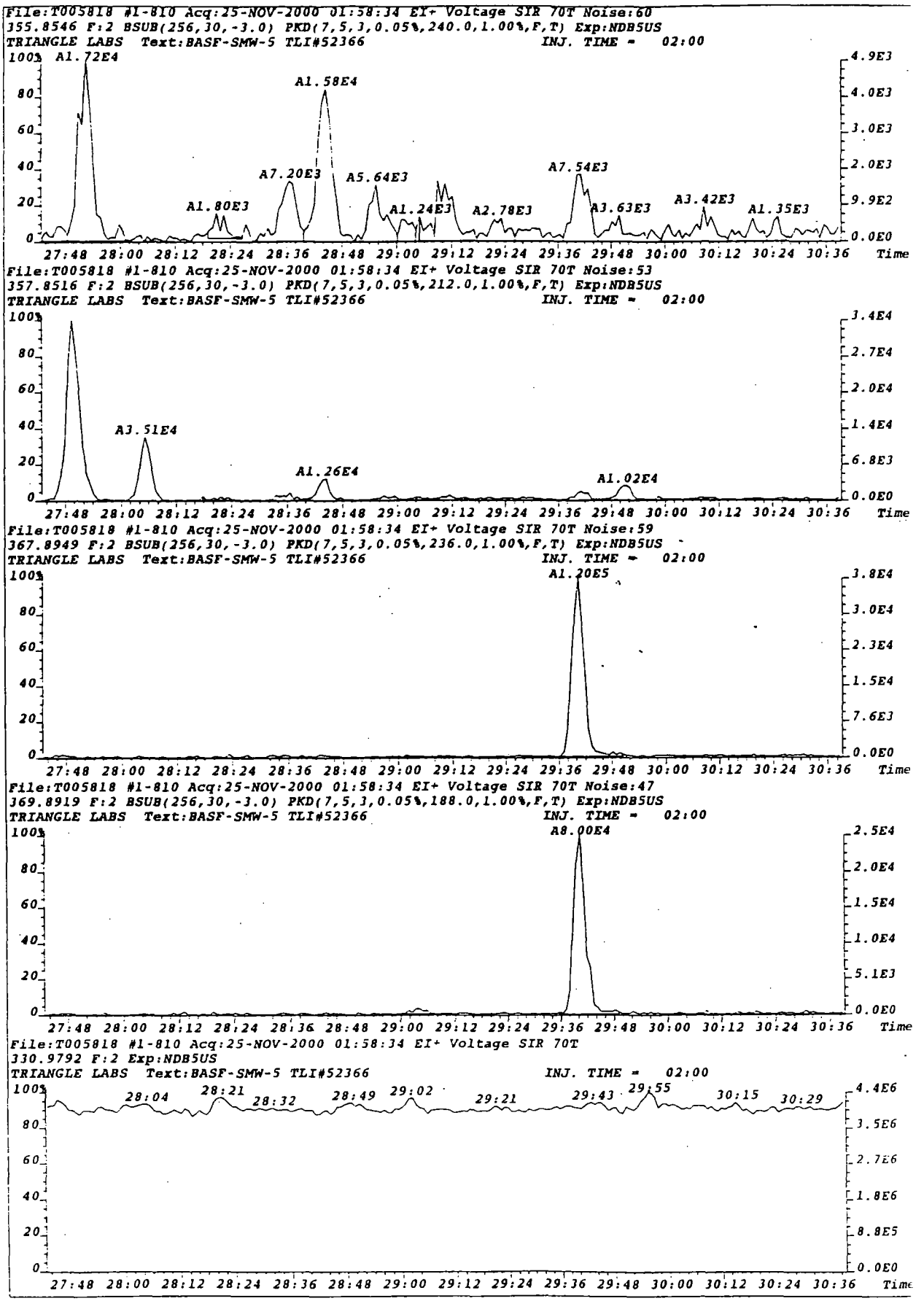
*** End of Report ***

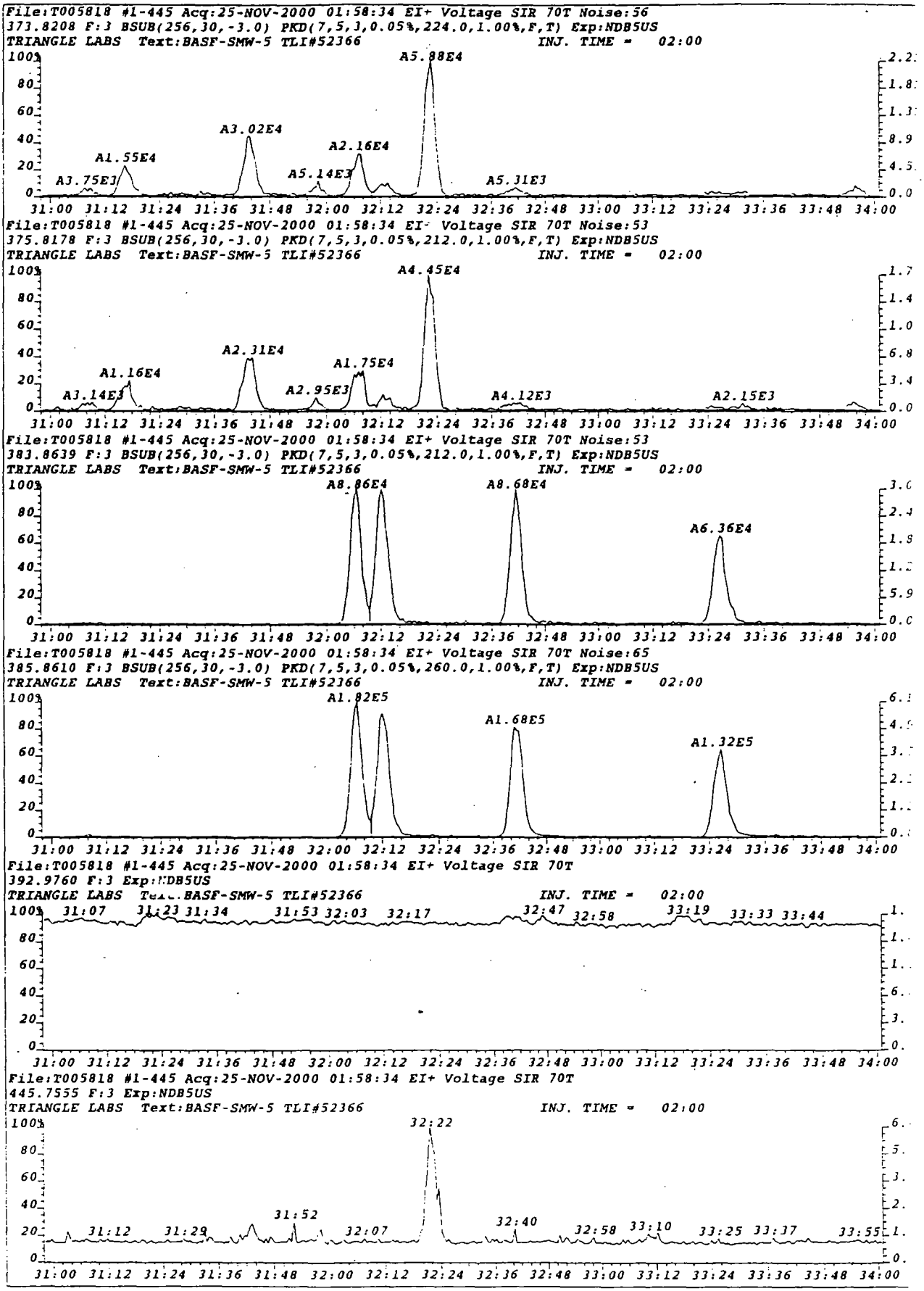

File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
319.8965 F:2 Exp:NDB5US
Sample Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00 File Text:BASF-SMW-5 TL»
25:10
25:23
25:42
25:55
26:07
26:23
26:36
27:04
27:20
27:31
27:45
0.10 · 0.21 = 0.021
25:00
26:00
27:00
28:00
Time
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
321.8936 F:2 Exp:NDB5US
Sample Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00 File Text:BASF-SMW-5 TL»
25:05
25:15
25:23
25:37
25:47
25:59
26:06
26:21
26:33
26:52
27:04
27:18
27:40
27:57
0.08 × 0.32 = 0.0256
25:00
26:00
27:00
28:00
Time

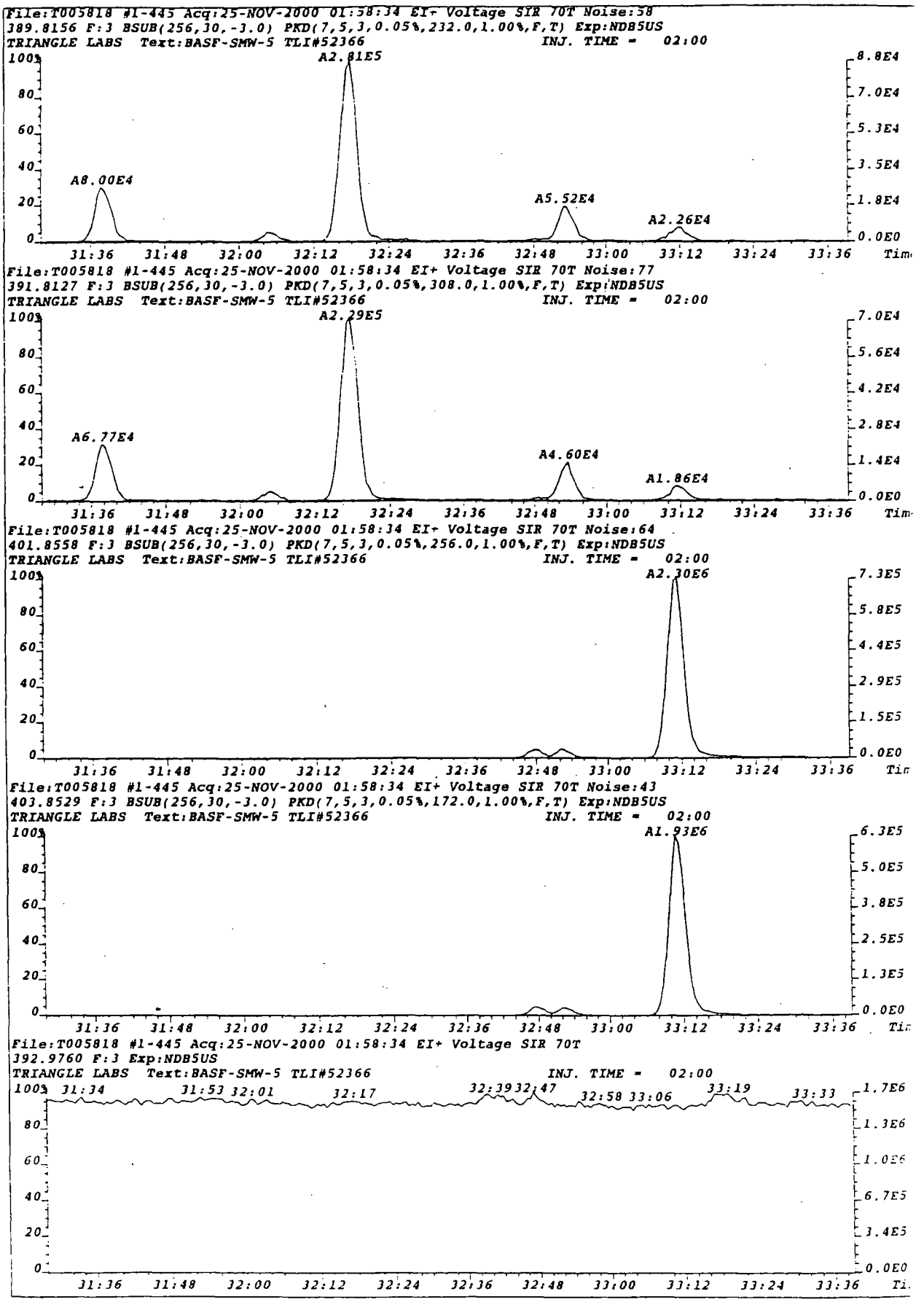

File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:91
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A3.23E4
A2.21E4
A1.39E5
A6.34E4
A6.96E4
A2.33E5
A2.76E5
A1.09E5
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:70
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,280.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A3.96E4
A1.70E5
A7.46E4
A7.75E4
A2.80E5
A3.39E5
A1.37E5
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:70
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,280.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A2.72E5
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:72
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,288.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A3.51E5
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
21:48 22:12 22:36 23:03 23:22 24:08 24:32 24:51 25:10 25:34 26:18
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
23:08 24:08 25:04 25:27 25:43 26:03 26:41
22:00 23:00 24:00 25:00 26:00

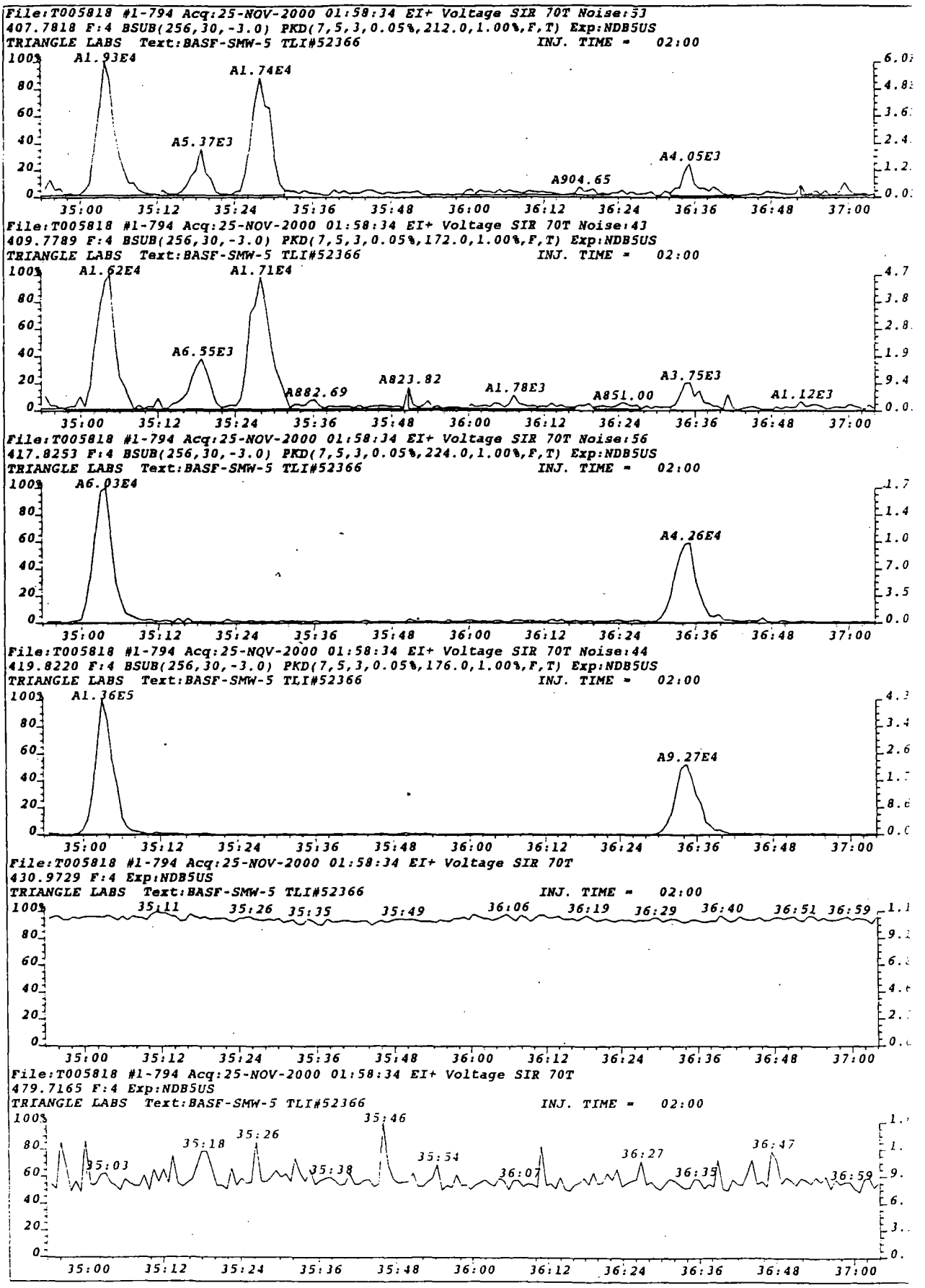

File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:46
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,184.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A1.06E5
A4.08E4
A1.23E4
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:58
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A1.39E5
A5.70E4
A8.68E4
A1.97E4
A6.59E3
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:232
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,928.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A3.27E6
A1.91E5
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:67
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A4.03E6
A2.29E5
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:90
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,360.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A5.20E6
A5.17E5
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
22:45 23:03 23:22 24:08 24:32 24:51 25:10 25:34 26:18 26:34
23:00 24:00 25:00 26:00 Time

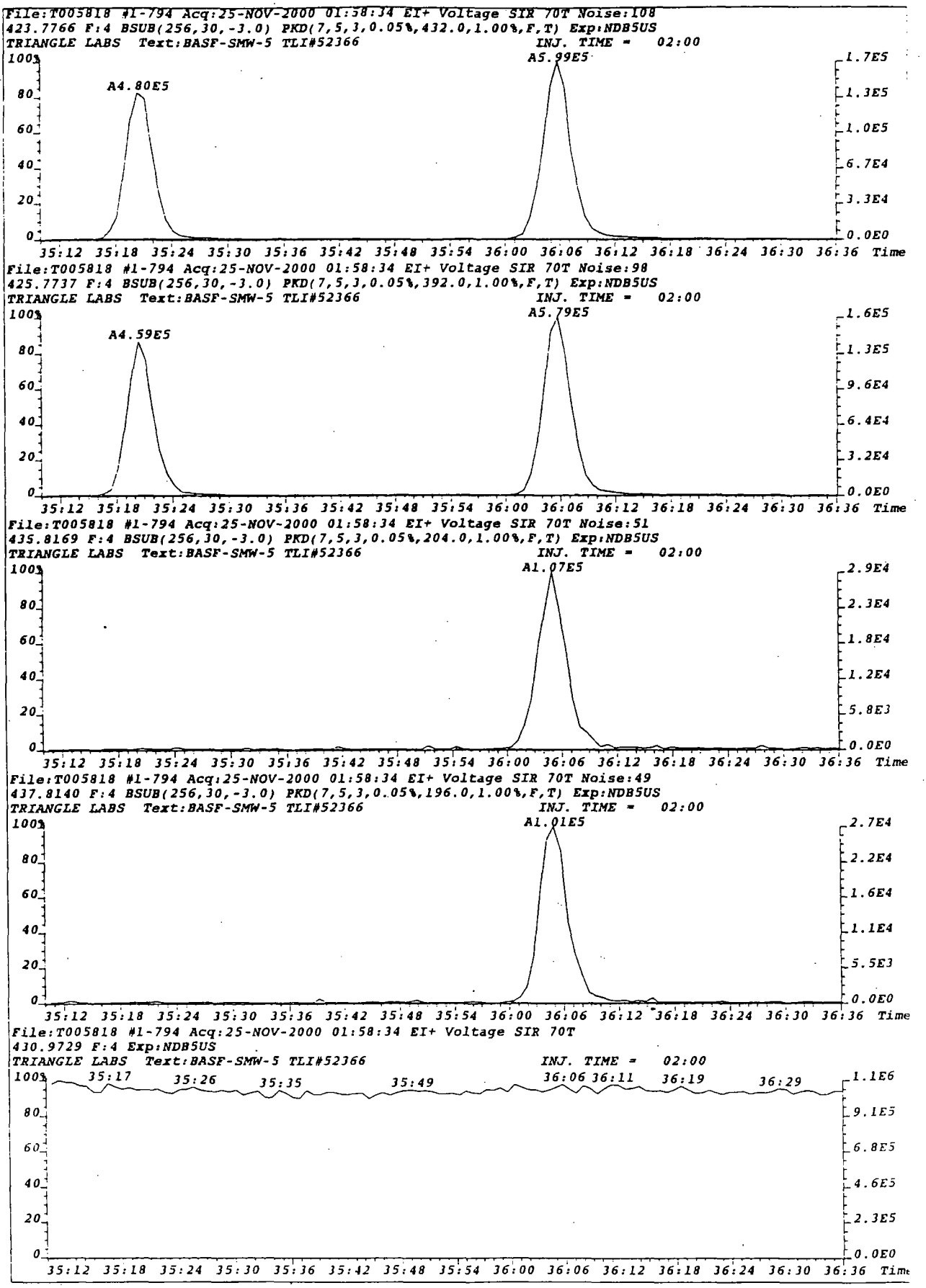

File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:49
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,196.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A1.71E5
A2.02E4
A3.37E4
A2.85E4
A1.10E4
A4.60E4
27:00
28:00
29:00
30:00
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:76
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,304.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A1.12E5
A2.29E4
A5.46E3
A2.41E4
A9.96E3
A3.09E4
27:00
28:00
29:00
30:00
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:40
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A1.83E5
A2.04E5
27:00
28:00
29:00
30:00
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI- Voltage SIR 70T Noise:59
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,236.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A1.27E5
A1.36E5
27:00
28:00
29:00
30:00
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
26:34
26:52
27:06
27:46
28:04
28:21
29:02
29:21
29:55
30:15
30:38
27:00
28:00
29:00
30:00
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
28:42
26:42
27:10
27:31
28:02
28:23
29:10
29:27
29:56
30:03
30:17
30:34
27:00
28:00
29:00
30:00

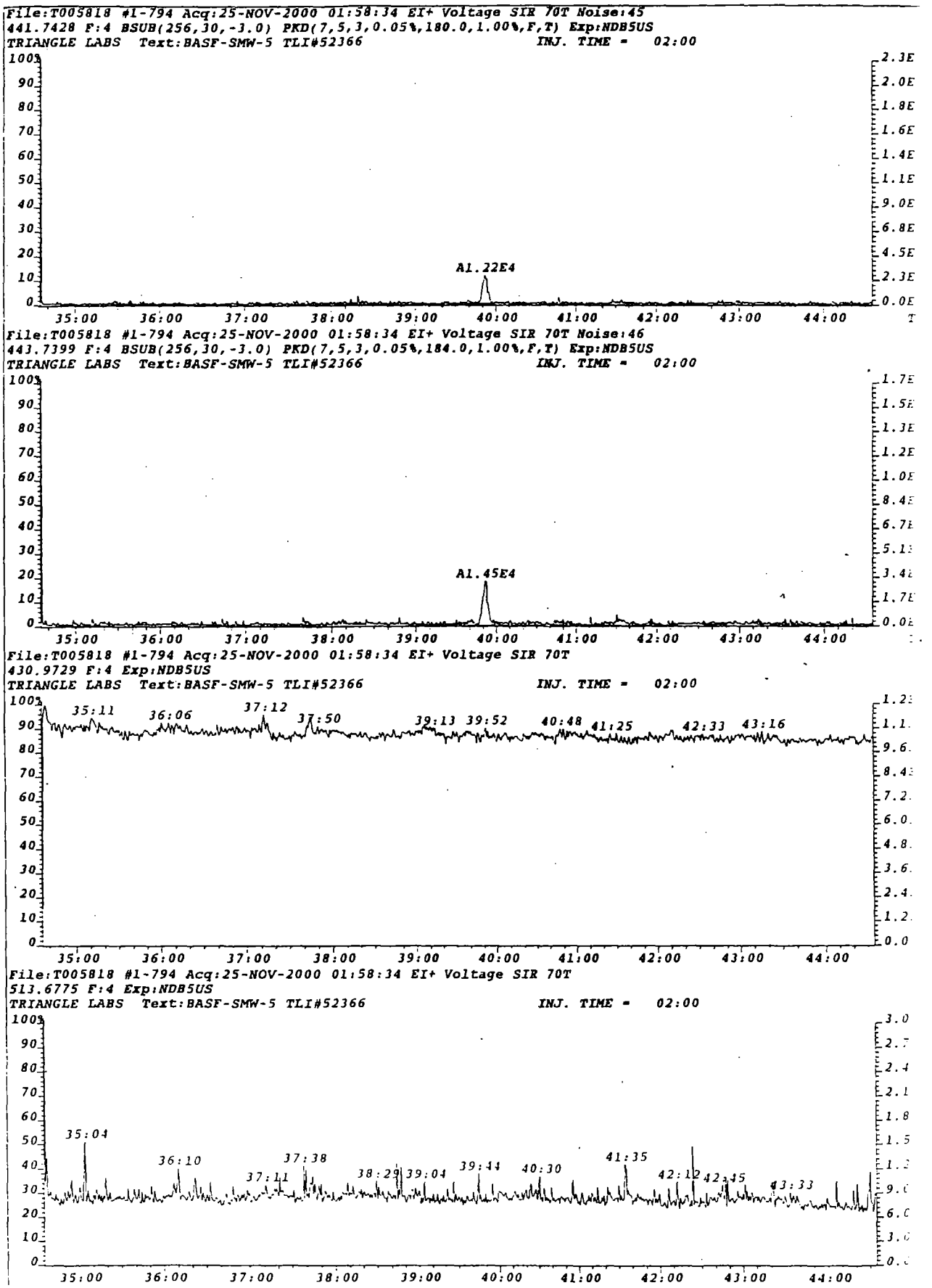

File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:60
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,240.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A1.72E4
A1.58E4
A7.20E3
A5.64E3
A1.80E3
A1.24E3
A2.78E3
A7.54E3
A3.63E3
A3.42E3
A1.35E3
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 Time
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:53
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A3.51E4
A1.26E4
A1.02E4
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 Time
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:59
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,236.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A1.20E5
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 Time
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:47
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,188.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A8.00E4
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 Time
File:T005818 #1-810 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
28:04 28:21 28:32 28:49 29:02 29:21 29:43 29:55 30:15 30:29
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 Time

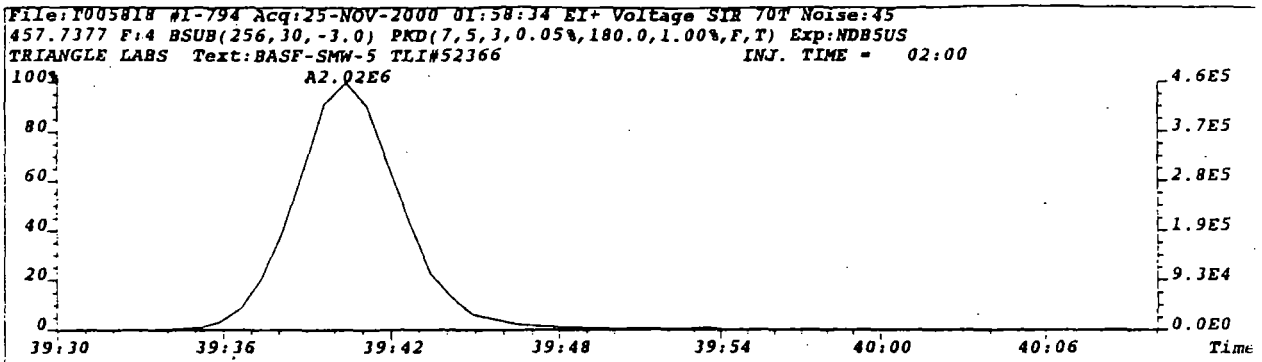

File:T005818 #1-445 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:56
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,224.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A5.88E4
A3.02E4
A2.16E4
A1.55E4
A5.14E3
A3.75E3
A5.31E3
31:00 31:12 31:24 31:36 31:48 32:00 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00
File:T005818 #1-445 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:53
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A4.45E4
A2.31E4
A1.75E4
A1.16E4
A2.95E3
A3.14E3
A4.12E3
A2.15E3
31:00 31:12 31:24 31:36 31:48 32:00 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00
File:T005818 #1-445 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:53
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A8.86E4
A8.68E4
A6.36E4
31:00 31:12 31:24 31:36 31:48 32:00 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00
File:T005818 #1-445 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:65
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A1.82E5
A1.68E5
A1.32E5
31:00 31:12 31:24 31:36 31:48 32:00 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00
File:T005818 #1-445 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
31:07 31:23 31:34 31:53 32:03 32:17 32:47 32:58 33:19 33:33 33:44
31:00 31:12 31:24 31:36 31:48 32:00 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00
File:T005818 #1-445 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
32:22
31:52
31:12 31:29 32:07 32:40 32:58 33:10 33:25 33:37 33:55
31:00 31:12 31:24 31:36 31:48 32:00 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00

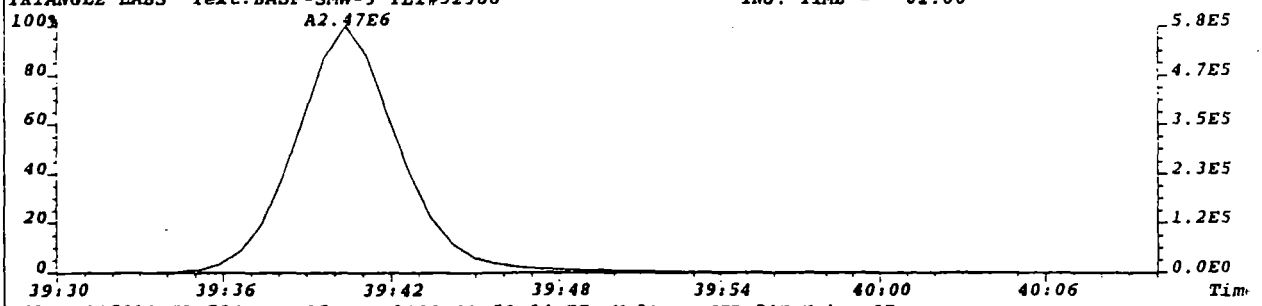

File:T005818 #1-445 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:58
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A2.81E5
A8.00E4
A5.52E4
A2.26E4
File:T005818 #1-445 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:77
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A2.29E5
A6.77E4
A4.60E4
A1.86E4
File:T005818 #1-445 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:64
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A2.30E6
File:T005818 #1-445 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:43
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A1.93E6
File:T005818 #1-445 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00

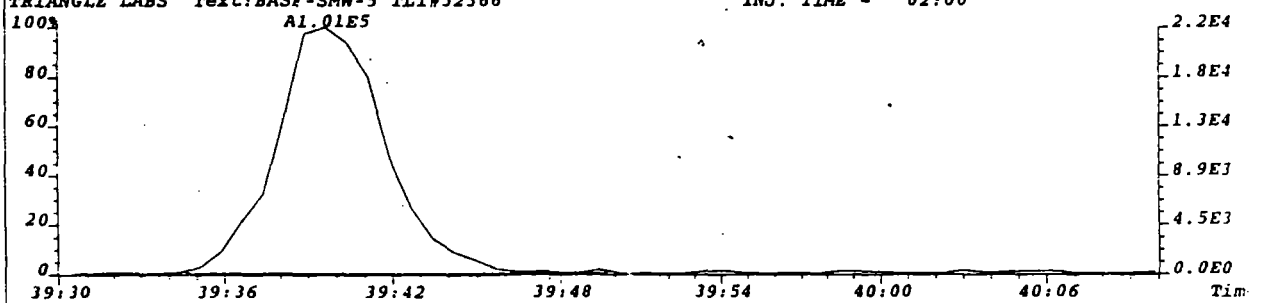

File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:53
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A1.93E4
A1.74E4
A5.37E3
A4.05E3
A904.65
File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:43
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A1.62E4
A1.71E4
A6.55E3
A882.69
A823.82
A1.78E3
A851.00
A3.75E3
A1.12E3
File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:56
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,224.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A6.03E4
A4.26E4
File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:44
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,176.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A1.36E5
A9.27E4
File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
35:11
35:26
35:35
35:49
36:06
36:19
36:29
36:40
36:51
36:59
File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
35:03
35:18
35:26
35:38
35:46
35:54
36:07
36:27
36:35
36:47
36:59
35:00
35:12
35:24
35:36
35:48
36:00
36:12
36:24
36:36
36:48
37:00

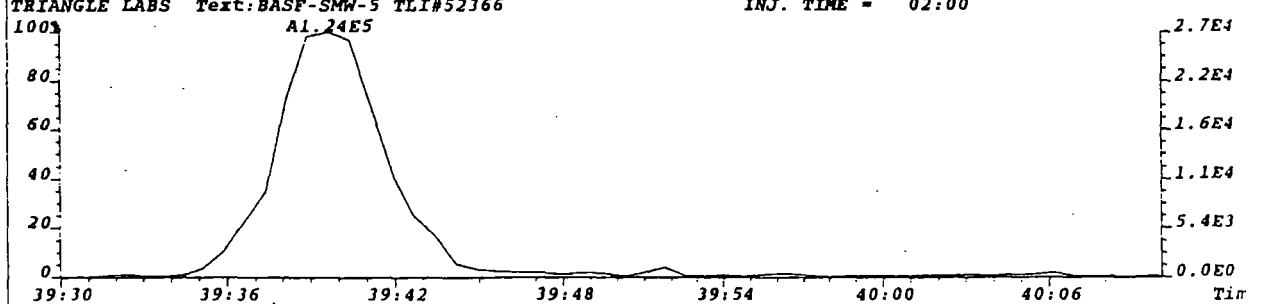

File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:108
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,432.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A4.80E5
A5.99E5
File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:98
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,392.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A4.59E5
A5.79E5
File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:51
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,204.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A1.07E5
File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:49
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,196.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A1.01E5
File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
35:17
35:26
35:35
35:49
36:06
36:11
36:19
36:29
Time

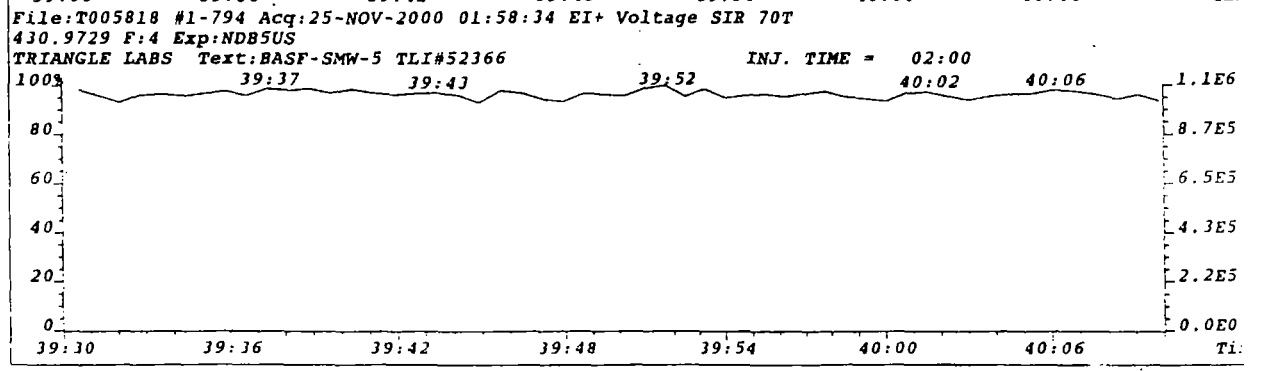

File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:45
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,180.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A1.22E4
File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:46
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,184.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
A1.45E4
File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
35:11
36:06
37:12
37:50
39:13
39:52
40:48
41:25
42:33
43:16
File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366
INJ. TIME = 02:00
35:04
36:10
37:11
37:38
38:29
39:04
39:44
40:30
41:35
42:12
42:45
43:33

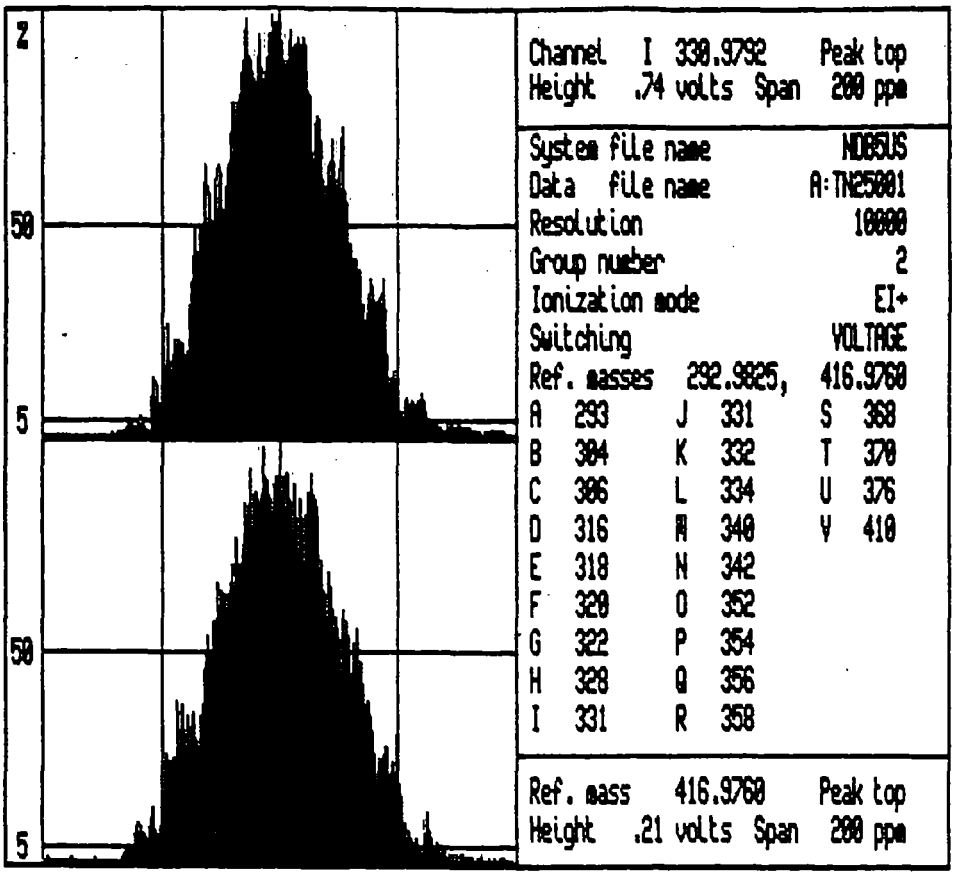

File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:45
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,180.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A2.02E6
100%
80
60
40
20
0
4.6E5
3.7E5
2.8E5
1.9E5
9.3E4
0.0E0
39:30
39:36
39:42
39:48
39:54
40:00
40:06
Time


File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:36
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,144.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A2.47E6
100%
80
60
40
20
0
5.8E5
4.7E5
3.5E5
2.3E5
1.2E5
0.0E0
39:30
39:36
39:42
39:48
39:54
40:00
40:06
Tim


File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:37
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A1.01E5
100%
80
60
40
20
0
2.2E4
1.8E4
1.3E4
8.9E3
4.5E3
0.0E0
39:30
39:36
39:42
39:48
39:54
40:00
40:06
Tim


File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T Noise:33
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,132.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
A1.24E5
100%
80
60
40
20
0
2.7E4
2.2E4
1.6E4
1.1E4
5.4E3
0.0E0
39:30
39:36
39:42
39:48
39:54
40:00
40:06
Tim


File:T005818 #1-794 Acq:25-NOV-2000 01:58:34 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-5 TLI#52366 INJ. TIME = 02:00
100%
39:37
39:43
39:52
40:02
40:06
80
60
40
20
0
1.1E6
8.7E5
6.5E5
4.3E5
2.2E5
0.0E0
39:30
39:36
39:42
39:48
39:54
40:00
40:06
Ti


2
50
5
50
5
Channel I 338.9792 Peak top
Height .74 volts Span 200 ppm
System file name MOBSUS
Data file name A:TM25001
Resolution 10000
Group number 2
Ionization mode EI+
Switching VOLTAGE
Ref. masses 292.9825, 416.9760
A 293 J 331 S 368
B 304 K 332 T 370
C 306 L 334 U 376
D 316 M 340 V 410
E 318 N 342
F 320 O 352
G 322 P 354
H 328 Q 356
I 331 R 358
Ref. mass 416.9760 Peak top
Height .21 volts Span 200 ppm

TLI Project: **52366** Method 8290 PCDD/PCDF Analysis
Client Sample: **BASF-SMW-6** Analysis File: **T005**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/2000**	Spike File:	**SPMIT32**
TLI ID:	**274-99-2A**	Date Extracted:	**11/21/2000**	ICal:	**TF57140**
		Date Analyzed:	**11/25/2000**	ConCal:	**T005815**
Sample Size:	**1.090 L**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005817**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flag
2,3,7,8-TCDD	49.0			0.82	25:23	
1,2,3,7,8-PeCDD	97.3			1.68	29:42	
1,2,3,4,7,8-HxCDD	99.7			1.36	32:49	
1,2,3,6,7,8-HxCDD	425			1.15	32:54	
1,2,3,7,8,9-HxCDD	337			1.20	33:12	
1,2,3,4,6,7,8-HpCDD	7780			1.03	36:06	
1,2,3,4,6,7,8,9-OCDD	52510			0.81	39:41	E
2,3,7,8-TCDF	621			0.87	24:39	
1,2,3,7,8-PeCDF	2290			1.51	28:42	
2,3,4,7,8-PeCDF	382			1.59	29:21	
1,2,3,4,7,8-HxCDF	910			1.31	32:07	
1,2,3,6,7,8-HxCDF	239			1.22	32:14	
2,3,4,6,7,8-HxCDF	139			1.30	32:43	
1,2,3,7,8,9-HxCDF	ND	12.1				
1,2,3,4,6,7,8-HpCDF	644			1.03	35:04	
1,2,3,4,7,8,9-HpCDF	126			1.07	36:36	
1,2,3,4,6,7,8,9-OCDF	830			0.86	39:52	

Totals	Conc. (pg/L)	Number	DL	EMPC	Flag
Total TCDD	286	6		385	
Total PeCDD	319	3		746	
Total HxCDD	5200	7			
Total HpCDD	16570	2			
Total TCDF	6070	14		6360	
Total PeCDF	4990	9		5140	
Total HxCDF	2610	8		2760	
Total HpCDF	1300	4			

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Printed: 09:28 11/25

TLI Project: **52366** Method 8290 PCDD/PCDF Analysis
Client Sample: **BASF-SMW-6** Analysis File: **T005E**

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag:
$^{13}C_{12}$-2,3,7,8-TCDF	208	11.3	40%-130%	0.77	24:38	V___
$^{13}C_{12}$-2,3,7,8-TCDD	181	9.87	40%-130%	0.83	25:22	V___
$^{13}C_{12}$-1,2,3,7,8-PeCDF	135	7.33	40%-130%	1.45	28:38	V___
$^{13}C_{12}$-1,2,3,7,8-PeCDD	154	8.38	40%-130%	1.50	29:40	V___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	135	7.38	40%-130%	0.51	32:13	V___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	152	8.30	40%-130%	1.23	32:53	V___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	147	7.99	25%-130%	0.42	35:04	V___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	146	7.96	25%-130%	1.03	36:05	V___
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	206	5.60	25%-130%	0.84	39:40	V___

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-2,3,4,7,8-PeCDF	143	7.78	40%-130%	1.52	29:20	V___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	140	7.62	40%-130%	0.50	32:07	V___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	135	7.37	40%-130%	1.27	32:48	V___
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	130	7.07	25%-130%	0.44	36:34	V___

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flag
$^{37}Cl_4$-2,3,7,8-TCDD	183	99.5	40%-130%	25:23	___

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	165	8.99	40%-130%	0.52	33:27	V___
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	150	8.17	40%-130%	0.51	32:41	V___

Recovery Standards	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,4-TCDD	0.81	25:10	___
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.20	33:11	___

Data Reviewer: _____ 11/25/2000

MFT3_PSR v1.00. LARS

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Printed: 09:28 11/25/

Chromatographic Calculations For File:T005819

QC Front End.....: 1.8907
Tetra/Hexa RS Ratio: 1.1719

Initial ....Date...

Data Review By: _____ ___/___/___

Calculated Noise Height: 0.05

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

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						0.860-1.077			
304-306	DC	NL		Height			0.15	0.08	0.07				
				21:21	RO	1.02	0.99	0.57	0.56	0.867			
				21:50		0.75	9.24	3.95	5.29	0.886			
				22:10		0.73	3.21	1.35	1.86	0.900			
				22:34		0.87	7.95	3.70	4.25	0.916			
				22:54	RO	0.94	14.21	6.18	6.57	0.930			
				23:13		0.71	12.14	5.03	7.11	0.942			
				23:34		0.82	5.71	2.57	3.14	0.957			
				23:53		0.85	13.63	6.28	7.35	0.970			
				24:09		0.84	95.00	43.44	51.56	0.980			
				24:27		0.80	3.57	1.59	1.98	0.993			
				24:39		0.87	45.07	20.96	24.11	1.001	2378-TCDF		AN
				25:04		0.89	6.36	3.00	3.36	1.018			
				25:18		0.89	3.73	1.76	1.97	1.027			
				25:29		0.84	23.06	10.50	12.56	1.035			
				25:45		0.83	97.75	44.42	53.33	1.045			
				26:04		0.84	114.41	52.25	62.16	1.058			
				26:24	RO	1.13	5.36	3.43	3.03	1.072			
	DC	WH		26:42		0.84	46.71			1.084			
304-306			17	Peaks			461.39						
13C12-TCDF				0.65-0.89						0.959-1.041			
316-318	DC	NL		Height			0.18	0.08	0.10				
	DC	WL		21:22	RO	0.90	1.59			0.867			
	DC	WL		22:24		0.67	2.64			0.909			
	DC	WL		23:28	RO	0.52	3.52			0.953			
				23:54	RO	0.25	0.64	0.28	1.13	0.970			
	DC	SN		24:13	RO	0.17	0.62			0.983			
				24:38		0.77	130.17	56.68	73.49	1.000	13C12-2378-TCDF		ISO
				Height			34.18	15.11	19.07				
				25:16		0.73	4.25	1.79	2.46	1.026			
	DC	SN		25:34	RO	0.07	0.55			1.038			
316-318			3	Peaks			135.06						

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

TCDD				0.65-0.89						0.890-1.045			
320-322	DC	NL		Height			0.09	0.05	0.04				
				22:46		0.69	4.53	1.85	2.68	0.898	1368-TCDD		AN
				23:10		0.73	2.65	1.12	1.53	0.913			
				23:29	RO	0.03	1.24	0.54	15.54	0.926			
	DC	SN		23:57		0.70	0.73			0.944			
				24:25		0.74	1.41	0.60	0.81	0.963			

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.
				24:31	RO	1.69	0.57	0.54	0.32	0.966			
				24:50		0.65	1.24	0.49	0.75	0.979			
				25:12		0.87	1.29	0.60	0.69	0.993			
				25:17	RO	0.54	1.15	0.50	0.93	0.997			
				25:23		0.82	2.27	1.02	1.25	1.001	2378-TCDD	AN	
				25:31	RO	1.18	0.39	0.26	0.22	1.006			J
				25:42	RO	0.59	1.20	0.52	0.88	1.013			
	DC	SN		25:56	RO	1.86	0.37			1.022			
320-322			11 Peaks				17.94						
37Cl-TCDD										0.921-1.079			
328	DC	NL			Height		0.14	0.14					
	DC	WL		22:54			1.82			0.903			
	DC	WL		23:03			16.90			0.909			
	DC	WL		23:10			11.85			0.913			
				23:29			2.09	2.09		0.926			
				23:40			1.59	1.59		0.933			
				23:58			1,032.56	1,032.56		0.945			
				24:25			3.17	3.17		0.963			
				24:57			1.24	1.24		0.984			
				25:23			79.39	79.39		1.001	37Cl-TCDD	CLS	
				25:46			10.80	10.80		1.016			
				26:43			23.89	23.89		1.053			
328			8 Peaks				1,154.73						
13C12-TCDD						0.65-0.89				0.921-1.079			
332-334	DC	NL			Height		0.25	0.20	0.05				
				25:18		0.81	896.22	401.45	494.77	0.992	13C12-1234-TCDD	RS1	
				25:22		0.83	93.04	42.15	50.89	1.000	13C12-2378-TCDD	IS1	
					Height		24.96	11.44	13.52				
				25:35		0.74	2.39	1.02	1.37	1.009			
332-334			3 Peaks				991.65						

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

PeCDF						1.32-1.78				0.923-1.064			
340-342	DC	NL			Height		0.10	0.05	0.05				
				26:38		1.49	8.02	4.80	3.22	0.930			
	DC	SN		27:00	RO	0.29	0.10			0.943			
				27:22	RO	0.87	0.76	0.46	0.53	0.956			J
				27:47		1.43	23.80	14.00	9.80	0.970			
				28:02		1.44	9.79	5.78	4.01	0.979			
				28:16	RO	1.29	2.30	1.16	0.90	0.987			
				28:22		1.47	2.47	1.47	1.00	0.991			
				28:42		1.51	89.84	54.03	35.81	1.002	12378-PeCDF	AN	
				28:56		1.48	18.78	11.21	7.57	1.010			
				29:21		1.59	15.18	9.33	5.85	1.025	23478-PeCDF	AN	
				29:32		1.65	6.94	4.32	2.62	1.031			
	DC	SN		29:45	RO	0.71	0.25			1.039			
				29:57	RO	1.83	1.81	1.30	0.71	1.046			
				30:04		1.59	21.16	12.99	8.17	1.050			
				30:19	RO	0.76	1.17	0.71	0.94	1.059			J

Compound/ M_Z....	QC.Log	Cmit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
	DC	WH		30:34		1.38	0.88			1.068			
340-342		13	Peaks				202.02						
13C12-PeCDF						1.32-1.78				0.860-1.140			
352-354	DC	NL				Height	0.08	0.04	0.04				
				27:46	RO	3.00	0.31	0.36	0.12	0.970			
	DC	SN		28:03		1.57	0.18			0.980			
				28:38		1.45	78.77	46.63	32.14	1.000	13C12-PeCDF 123	IS2	
						Height	23.86	13.87	9.99				
				28:55	RO	0.79	0.79	0.48	0.61	1.010			
	DC	SN		29:03	RO	1.24	0.54			1.015			
				29:20		1.52	82.76	49.91	32.85	1.024	13C12-PeCDF 234	SUR1	
	DC	SN		29:39	RO	2.85	0.66			1.036			
	DC	SN		29:52	RO	0.67	0.10			1.043			
				30:08	RO	5.54	0.33	0.72	0.13	1.052			
				30:19	RO	1.13	1.71	0.76	0.67	1.059			
352-354		6	Peaks				164.67						
---------- Above: PeCDF / PeCDD Follows ----------													
PeCDD						1.32-1.78				0.933-1.021			
356-358	DC	NL				Height	0.07	0.04	0.03				
				28:22	RO	0.89	1.55	0.94	1.06	0.956			
				28:36	RO	0.45	3.49	2.12	4.71	0.964			
				28:45	RO	1.25	6.17	3.03	2.42	0.969			
				28:56		1.49	2.81	1.68	1.13	0.975			
				29:10		1.46	3.74	2.22	1.52	0.983			
				29:30	RO	0.60	0.49	0.30	0.50	0.994			J
				29:42		1.68	2.87	1.80	1.07	1.001	12378-PeCDD	AN	
				29:50	RO	0.07	0.89	0.54	8.19	1.006			J
	DC	WH		30:26	RO	0.55	0.74			1.026			
356-358		8	Peaks				22.01						
13C12-PeCDD						1.32-1.78				0.865-1.135			
368-370	DC	NL				Height	0.08	0.05	0.03				
	DC	SN		28:11	RO	3.75	0.10			0.950			
	DC	SN		28:20	RO	4.14	0.18			0.955			
	DC	SN		28:35	RO	0.75	0.39			0.963			
	DC	SN		28:52	RO	0.62	0.13			0.973			
	DC	SN		29:21	RO	0.83	0.08			0.989			
				29:40		1.50	51.24	30.75	20.49	1.000	13C12-PeCDD 123	IS3	
						Height	15.80	9.48	6.32				
				30:04	RC	1.17	0.46	0.21	0.18	1.013			
368-370		2	Peaks				51.70						
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF						1.05-1.43				0.961-1.046			
374-376	DC	NL				Height	0.12	0.06	0.06				
				31:08		1.36	2.78	1.60	1.18	0.966			
				31:17		1.35	11.19	6.43	4.76	0.971			
				31:30	RO	2.84	0.56	0.71	0.25	0.978			J

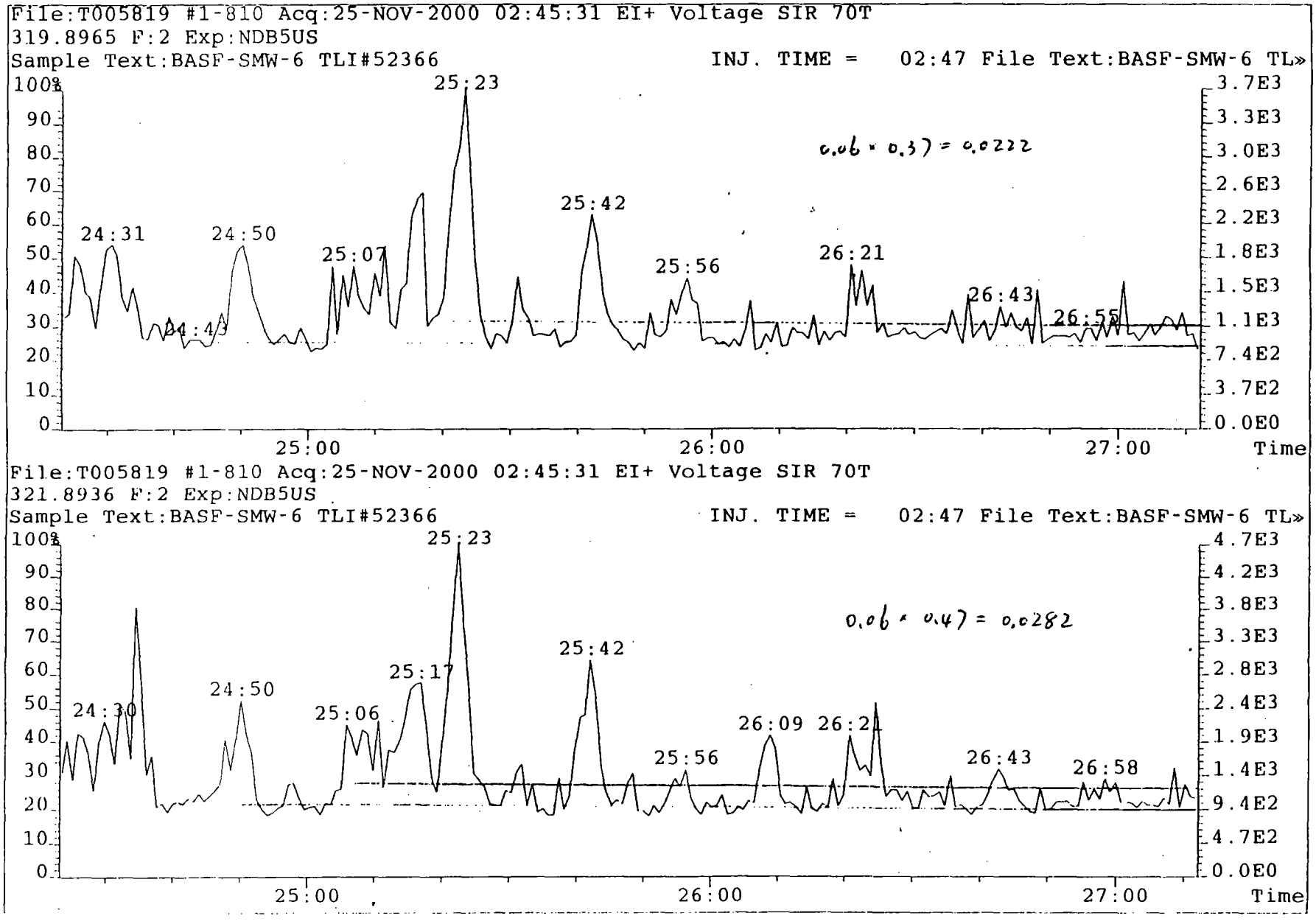
Compound/ M_z....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				31:35	RO	1.54	0.54	0.37	0.24	0.980			J
				31:44		1.26	18.45	10.28	8.17	0.985			
				31:59		1.39	1.91	1.11	0.80	0.993			
				32:07		1.31	34.30	19.45	14.85	0.997	123478-HxCDF	AN	
				32:14		1.22	9.45	5.19	4.26	1.001	123678-HxCDF	AN	
				32:23		1.34	12.55	7.19	5.36	1.005			
				32:30	RO	0.83	0.45	0.25	0.30	1.009			J
				32:43		1.30	4.97	2.81	2.16	1.016	234678-HxCDF	AN	
	DC	SN		33:18	RO	0.22	0.04			1.034			
				33:31	RO	1.90	3.85	3.27	1.72	1.040			
	DC	SN		33:40	RO	2.75	0.09			1.045			
	DC	WH		33:56		1.27	4.49			1.053			
374-376			12	Peaks			101.00						
13C12-HxCDF				0.43-0.59						0.876-1.124			
384-386	DC	NL		Height			0.15	0.07	0.08				
				32:07		0.50	68.57	22.94	45.63	0.997	13C12-HxCDF 478	SUR2	
				32:13		0.51	67.40	22.71	44.69	1.000	13C12-HxCDF 678	IS4	
				Height			23.94	8.02	15.92				
				32:41		0.51	68.07	22.96	45.11	1.014	13C12-HxCDF 234	ALT2	
				32:51		0.43	0.33	0.10	0.23	1.020			
				33:27		0.52	55.02	18.72	36.30	1.038	13C12-HxCDF 789	ALT1	
				33:35	RO	1.42	0.29	0.27	0.19	1.042			
384-386			6	Peaks			259.68						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD				1.05-1.43						0.956-1.013			
390-392	DC	NL		Height			0.12	0.05	0.07				
				31:38		1.18	38.78	20.97	17.81	0.962			
				32:05		1.27	9.13	5.10	4.03	0.976			
				32:18		1.16	64.93	34.90	30.03	0.982			
				32:27		1.15	1.40	0.75	0.65	0.987			
				32:49		1.36	2.62	1.51	1.11	0.998	123478-HxCDD	AN	
				32:54		1.15	11.16	5.98	5.18	1.001	123678-HxCDD	AN	
				33:12		1.20	8.95	4.89	4.06	1.010	123789-HxCDD	AN	
	DC	WH		33:20	RO	1.80	0.11			1.014			
	DC	WH		33:39	RO	0.68	0.23			1.023			
390-392			7	Peaks			136.97						
13C12-HxCDD				1.05-1.43						0.970-1.030			
402-404	DC	NL		Height			0.13	0.08	0.05				
				32:48		1.27	43.58	24.36	19.22	0.997	13C12-HxCDD 478	SUR3	
				32:53		1.23	47.40	26.17	21.23	1.000	13C12-HxCDD 678	IS5	
				Height			15.95	8.67	7.28				
				33:11		1.20	628.98	342.55	286.43	1.009	13C12-HxCDD 789	RS2	
				33:26	RO	0.51	0.43	0.24	0.47	1.017			
402-404			4	Peaks			720.39						
---------- Above: HxCDD / HpCDF 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
HpCDF				0.88-1.20						0.995-1.048			
408-410	DC	NL				Height	0.10	0.06	0.04				
				35:04		1.03	21.47	10.87	10.60	1.000	1234678-HpCDF	AN	
				35:19		1.02	1.90	0.96	0.94	1.007			
				35:29		1.06	13.75	7.06	6.69	1.012			
	DC	SN		36:06	RO	0.43	0.06			1.029			
				36:36		1.07	3.23	1.67	1.56	1.044	1234789-HpCDF	AN	
	DC	WH		36:47	RO	0.50	0.18			1.049			
408-410			4 Peaks				40.35						
13C12-HpCDF				0.37-0.51						0.943-1.114			
418-420	DC	NL				Height	0.09	0.05	0.04				
				35:04		0.42	48.73	14.40	34.33	1.000	13C12-HpCDF 678	IS6	
						Height	14.98	4.31	10.67				
	DC	SN		35:23	RO	0.85	0.56			1.009			
	DC	SN		35:33	RO	0.57	0.13			1.014			
				36:34		0.44	33.57	10.24	23.33	1.043	13C12-HpCDF 789	SUR4	
	DC	SN		36:47	RO	0.88	0.46			1.049			
	DC	SN		36:54	RO	0.33	0.23			1.052			
418-420			2 Peaks				82.30						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD				0.88-1.20						0.974-1.005			
424-426	DC	NL				Height	0.16	0.06	0.10				
				35:21		1.02	176.02	88.89	87.13	0.980			
				36:06		1.03	155.70	78.92	76.78	1.000	1234678-HpCDD	AN	
424-426			2 Peaks				331.72						
13C12-HpCDD				0.88-1.20						0.972-1.028			
436-438	DC	NL				Height	0.23	0.16	0.07				
				36:05		1.03	42.97	21.84	21.13	1.000	13C12-HpCDD 678	IS7	
						Height	11.15	5.64	5.51				
436-438			1 Peak				42.97						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF				0.76-1.02						0.899-1.101			
442-444	DC	NL				Height	0.07	0.04	0.03				
	DC	SN		36:37	RO	1.25	0.15			0.923			
	DC	SN		36:48	RO	3.67	0.06			0.928			
	DC	SN		37:00	RO	1.40	0.09			0.933			
	DC	SN		37:34	RO	0.75	0.19			0.947			
	DC	SN		37:47	RO	0.36	0.08			0.953			
				37:58		0.96	0.98	0.48	0.50	0.957			
	DC	SN		38:05	RO	1.67	0.11			0.960			
	DC	SN		38:29	RO	0.50	0.11			0.970			
	DC	SN		39:03		0.90	0.19			0.984			
	DC	SN		39:09	RO	1.09	0.21			0.987			
	DC	SN		39:16	RO	2.20	0.09			0.990			
	DC	SN		39:33	RO	0.62	0.17			0.997			
	DC	SN		39:40	RO	0.58	0.40			1.000			

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
				39:52		0.86	12.25	5.65	6.60	1.005	OCDF	AN	
	DC	SN		40:05		0.92	0.46			1.011			
	DC	SN		40:27	RO	1.50	0.15			1.020			
	DC	SN		41:06	RO	2.10	0.19			1.036			
	DC	SN		41:20	RO	2.33	0.11			1.042			
	DC	SN		41:26	RO	2.50	0.08			1.045			
	DC	SN		41:33	RO	1.10	0.40			1.047			
	DC	SN		42:21	RO	0.42	0.11			1.068			
	DC	SN		42:45	RO	0.58	0.23			1.078			
	DC	SN		43:01		0.83	0.11			1.084			
	DC	SN		43:09		0.82	0.20			1.088			
	DC	SN		43:37		1.00	0.20			1.100			
	DC	WH		43:56	RO	0.17	0.11			1.108			
	DC	WH		44:24		0.91	0.21			1.119			
442-444		2	Peaks				13.23						
OCDD				0.76-1.02					0.899-1.101				
458-460	DC	NL				Height	0.07	0.03	0.04				
				39:41		0.81	643.56	288.97	354.59	1.000	OCDD	AN	E
458-460		1	Peak				643.56						
13C12-OCDD				0.76-1.02					0.996-1.004				
470-472	DC	NL				Height	0.15	0.09	0.06				
				39:40		0.84	49.21	22.41	26.80	1.000	13C12-OCDD	IS8	
						Height	11.24	4.98	6.26				
	DC	WH		40:00	RO	2.27	0.77			1.008			
	DC	WH		40:12	RO	1.94	0.68			1.013			
470-472		1	Peak				49.21						

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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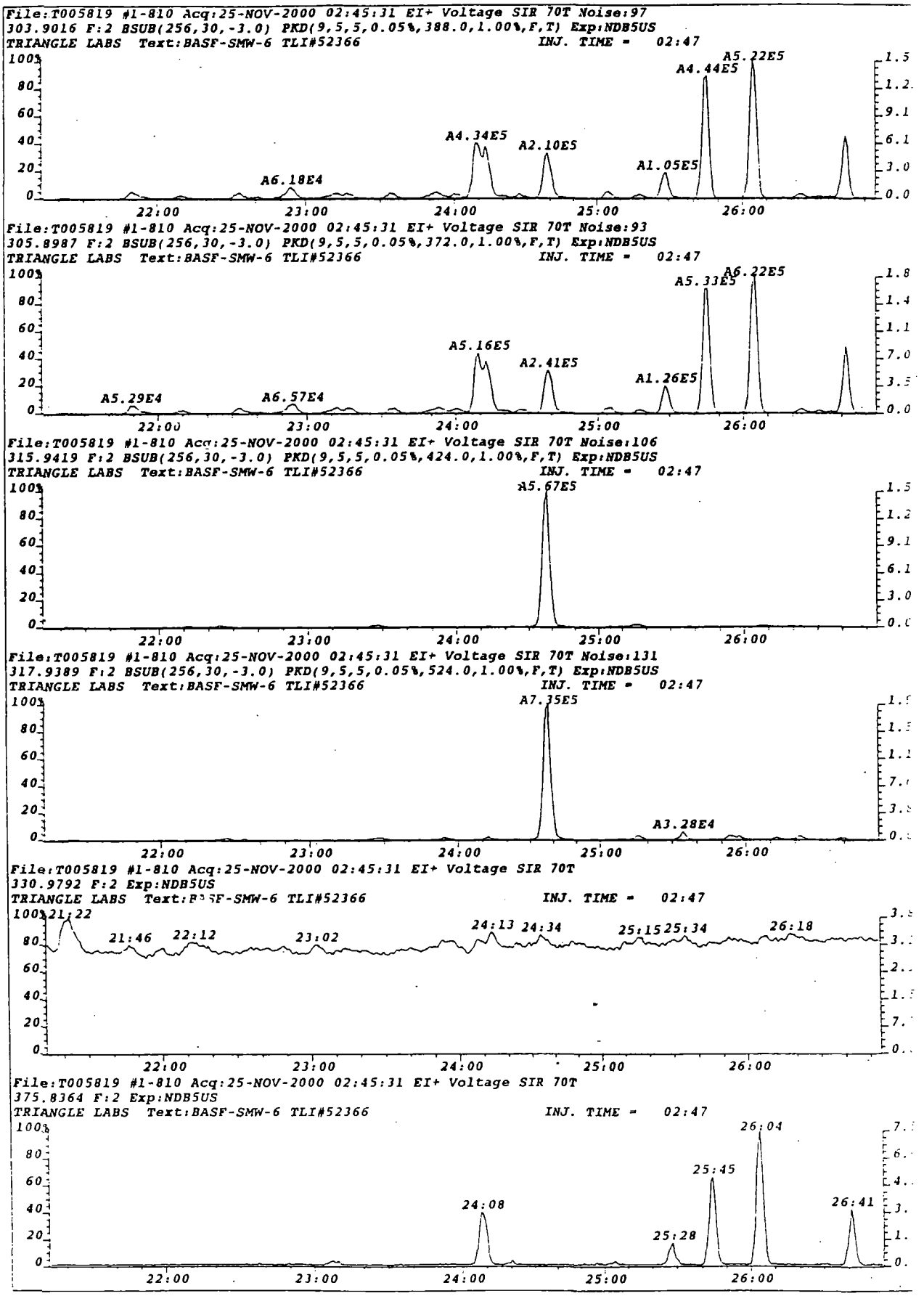
319.8965 F:2 Exp:NDB5US
Sample Text:BASF-SMW-6 TLI#52366
INJ. TIME = 02:47 File Text:BASF-SMW-6 TL»
0.06 × 0.37 = 0.0222
24:31
24:50
25:07
25:23
25:42
25:56
26:21
26:43
26:55
25:00
26:00
27:00
Time
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
321.8936 F:2 Exp:NDB5US
Sample Text:BASF-SMW-6 TLI#52366
INJ. TIME = 02:47 File Text:BASF-SMW-6 TL»
0.06 × 0.47 = 0.0282
24:30
24:50
25:06
25:17
25:23
25:42
25:56
26:09
26:43
26:58
25:00
26:00
27:00
Time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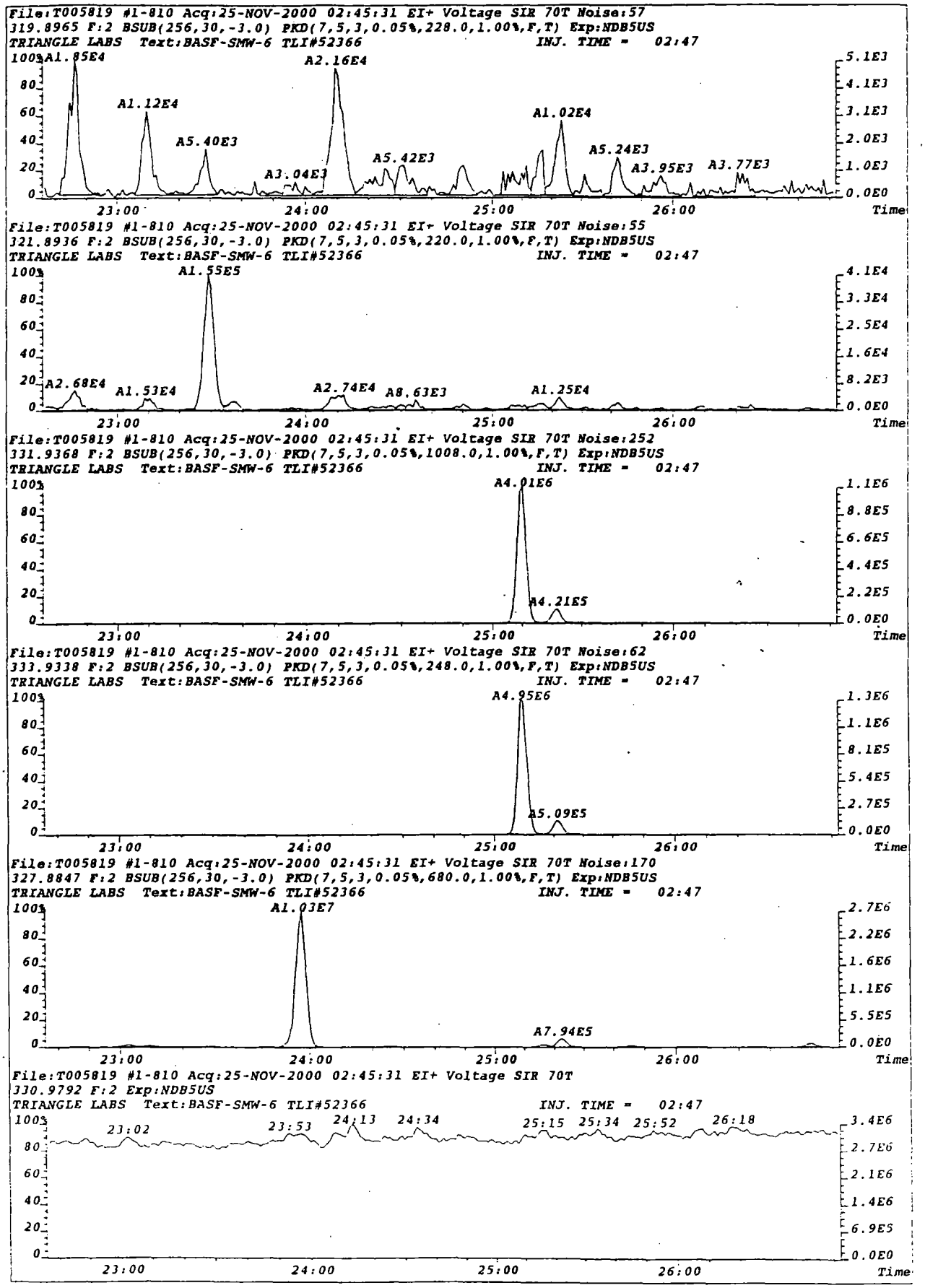
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A6.18E4
A4.34E5
A2.10E5
A1.05E5
A4.44E5
A5.22E5
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:93
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,372.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A5.29E4
A6.57E4
A5.16E5
A2.41E5
A1.26E5
A5.33E5
A6.22E5
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:106
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,424.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A5.67E5
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:131
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,524.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A7.35E5
A3.28E4
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
21:22
21:46
22:12
23:02
24:13
24:34
25:15
25:34
26:18
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
24:08
25:28
25:45
26:04
26:41
22:00
23:00
24:00
25:00
26:00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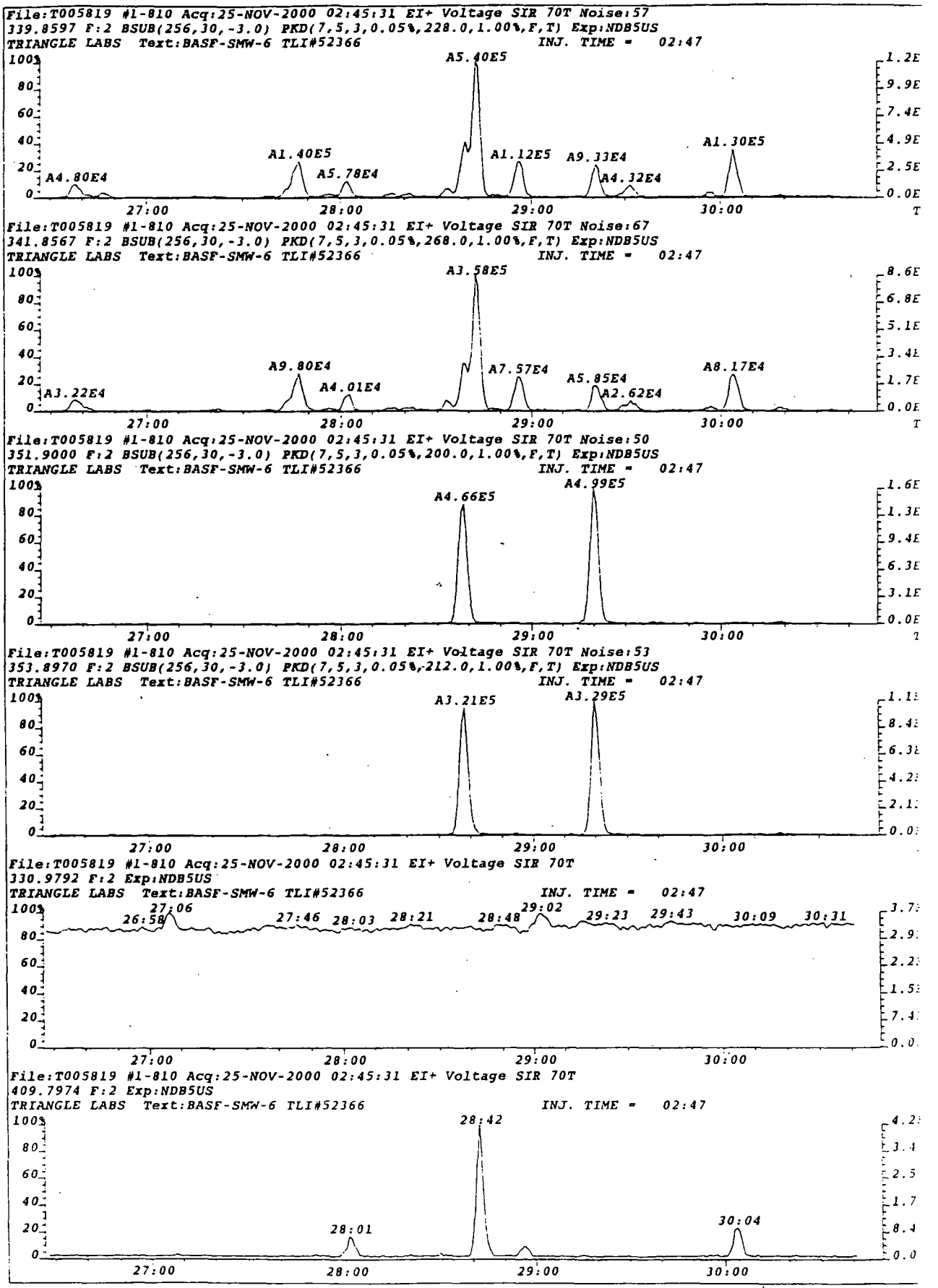
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,228.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A1.85E4
A1.12E4
A5.40E3
A2.16E4
A3.04E3
A5.42E3
A1.02E4
A5.24E3
A3.95E3
A3.77E3
Time
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:55
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,220.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A1.55E5
A2.68E4
A1.53E4
A2.74E4
A8.63E3
A1.25E4
Time
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:252
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1008.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A4.01E6
A4.21E5
Time
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:62
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,248.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A4.95E6
A5.09E5
Time
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:170
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,680.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A1.03E7
A7.94E5
Time
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
23:02
23:53
24:13
24:34
25:15
25:34
25:52
26:18
Time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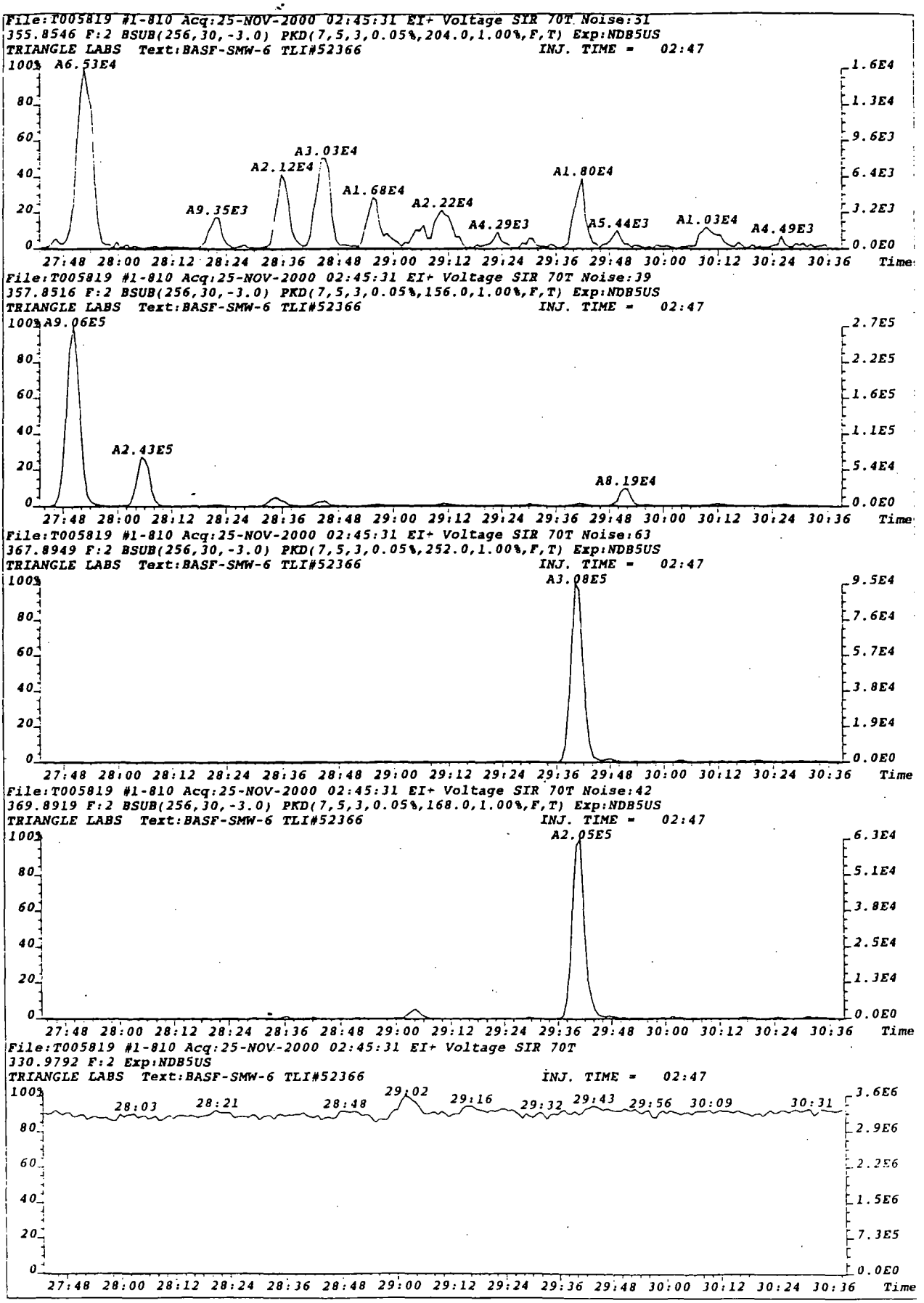
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,228.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A5.40E5
A1.40E5
A1.12E5
A9.33E4
A1.30E5
A4.80E4
A5.78E4
A4.32E4
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:67
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A3.58E5
A9.80E4
A7.57E4
A5.85E4
A8.17E4
A3.22E4
A4.01E4
A2.62E4
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:50
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A4.66E5
A4.99E5
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:53
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A3.21E5
A3.29E5
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
26:58
27:06
27:46
28:03
28:21
28:48
29:02
29:23
29:43
30:09
30:31
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
28:01
28:42
30:04
27:00
28:00
29:00
30:00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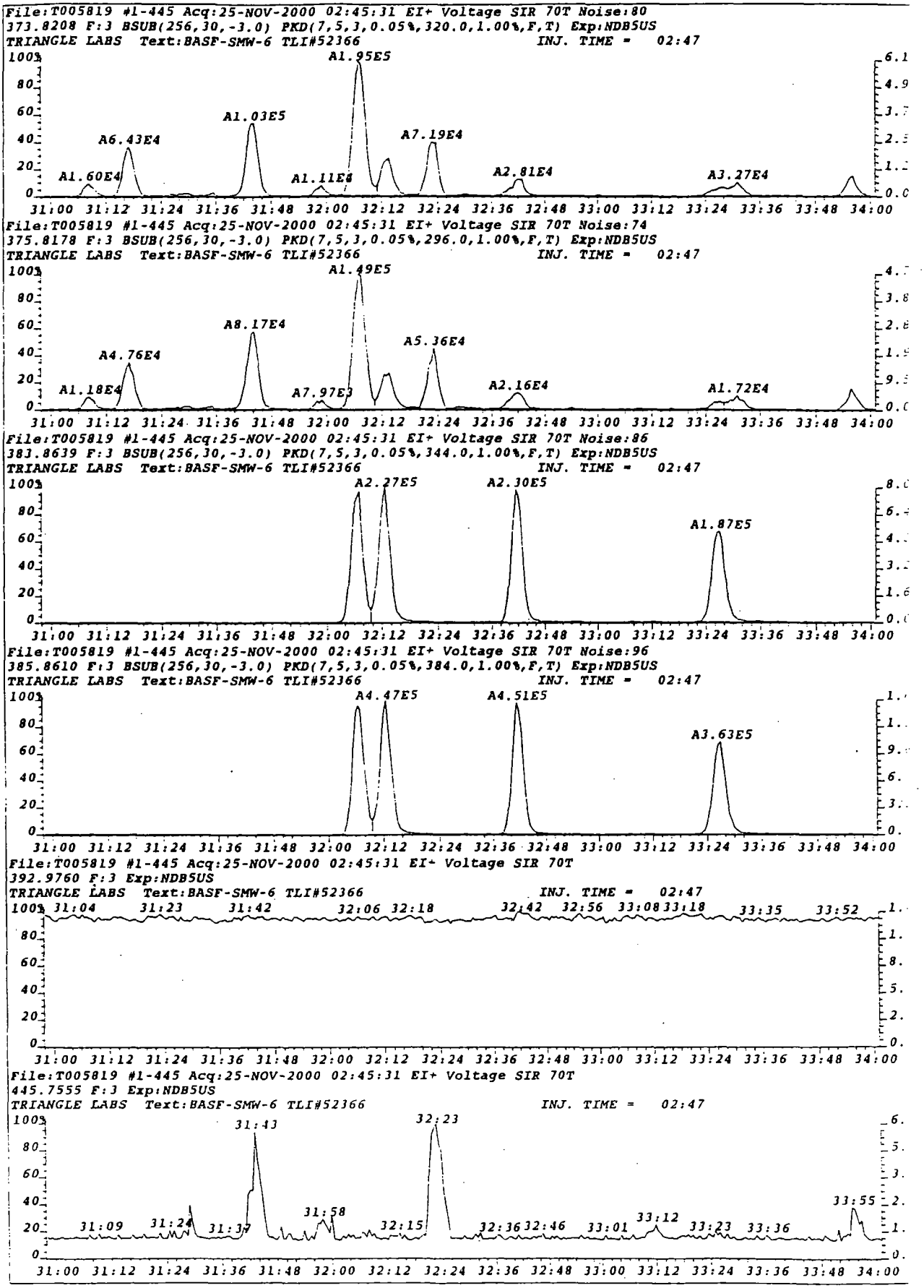
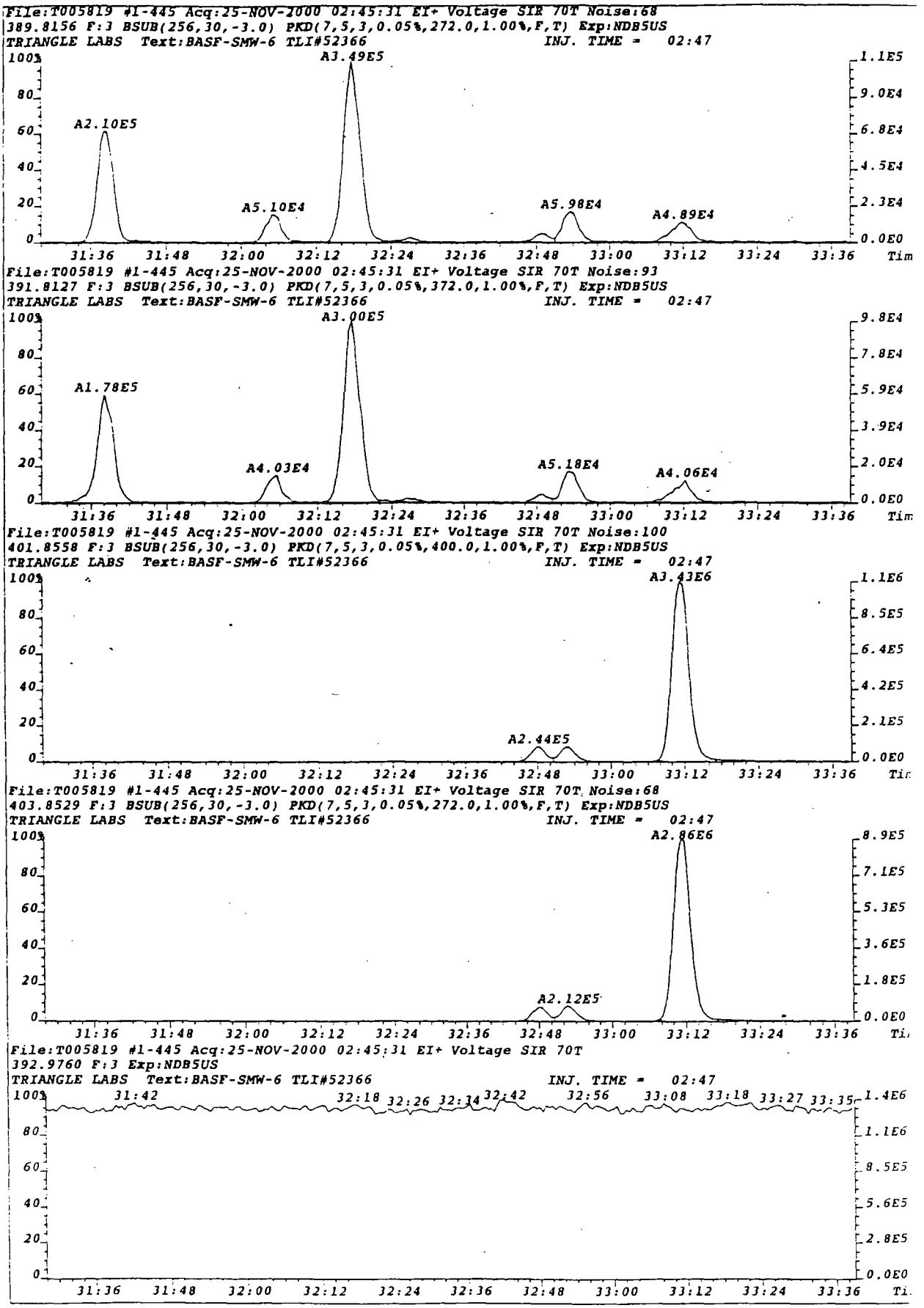
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,204.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366
INJ. TIME = 02:47
A6.53E4
A9.35E3
A2.12E4
A3.03E4
A1.68E4
A2.22E4
A4.29E3
A1.80E4
A5.44E3
A1.03E4
A4.49E3
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:39
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366
INJ. TIME = 02:47
A9.06E5
A2.43E5
A8.19E4
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:63
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366
INJ. TIME = 02:47
A3.08E5
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:42
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,168.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366
INJ. TIME = 02:47
A2.05E5
File:T005819 #1-810 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366
INJ. TIME = 02:47
28:03
28:21
28:48
29:02
29:16
29:32
29:43
29:56
30:09
30:31
Time


File:T005819 #1-445 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:80
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,320.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A1.95E5
A1.03E5
A6.43E4
A7.19E4
A1.60E4
A1.11E4
A2.81E4
A3.27E4
File:T005819 #1-445 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:74
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,296.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A1.49E5
A8.17E4
A5.36E4
A4.76E4
A1.18E4
A7.97E3
A2.16E4
A1.72E4
File:T005819 #1-445 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:86
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,344.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A2.27E5
A2.30E5
A1.87E5
File:T005819 #1-445 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:96
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,384.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A4.47E5
A4.51E5
A3.63E5
File:T005819 #1-445 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
File:T005819 #1-445 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
31:43
32:23
31:58
33:12
33:55
31:00 31:12 31:24 31:36 31:48 32:00 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00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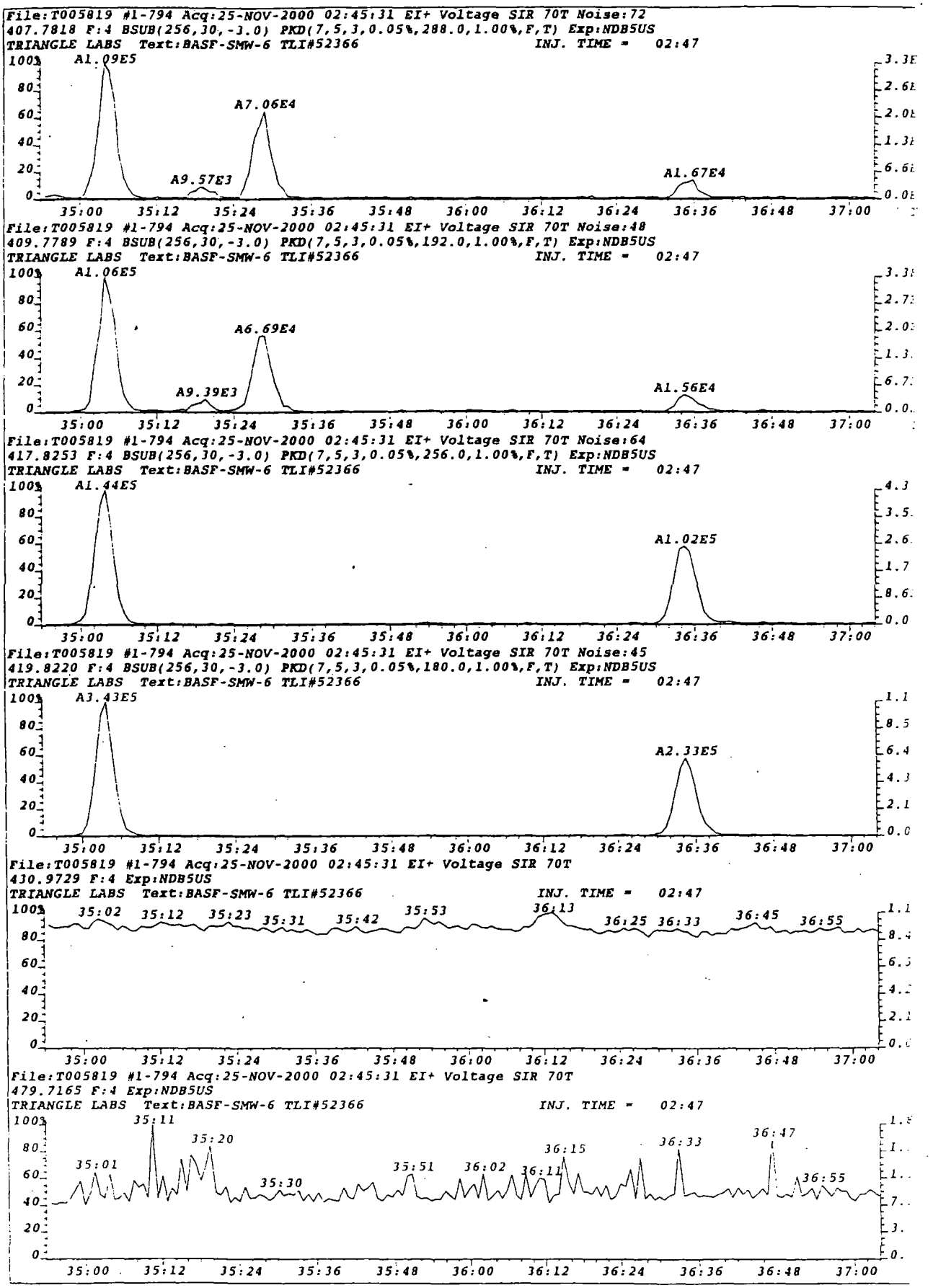
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,272.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A2.10E5
A3.49E5
A5.10E4
A5.98E4
A4.89E4
File:T005819 #1-445 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:93
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,372.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A1.78E5
A3.00E5
A4.03E4
A5.18E4
A4.06E4
File:T005819 #1-445 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:100
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,400.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A3.43E6
A2.44E5
File:T005819 #1-445 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:68
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,272.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A2.86E6
A2.12E5
File:T005819 #1-445 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47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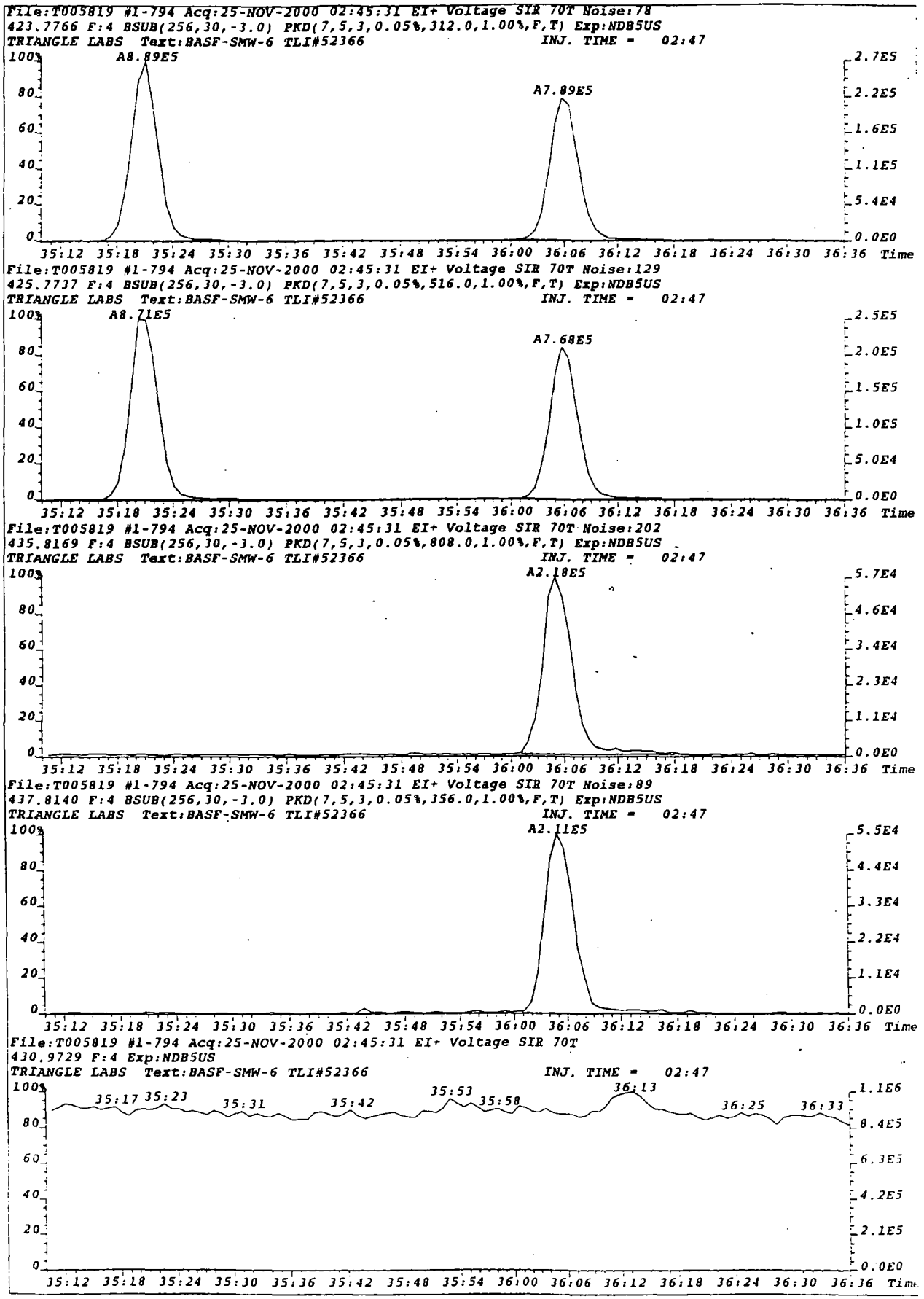
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,288.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A1.09E5
A7.06E4
A9.57E3
A1.67E4
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:48
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,192.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A1.06E5
A6.69E4
A9.39E3
A1.56E4
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:64
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A1.44E5
A1.02E5
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:45
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,180.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A3.43E5
A2.33E5
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
35:11
35:20
35:01
35:30
35:51
36:02
36:15
36:33
36:47
36:55
35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 36:36 36:48 37:00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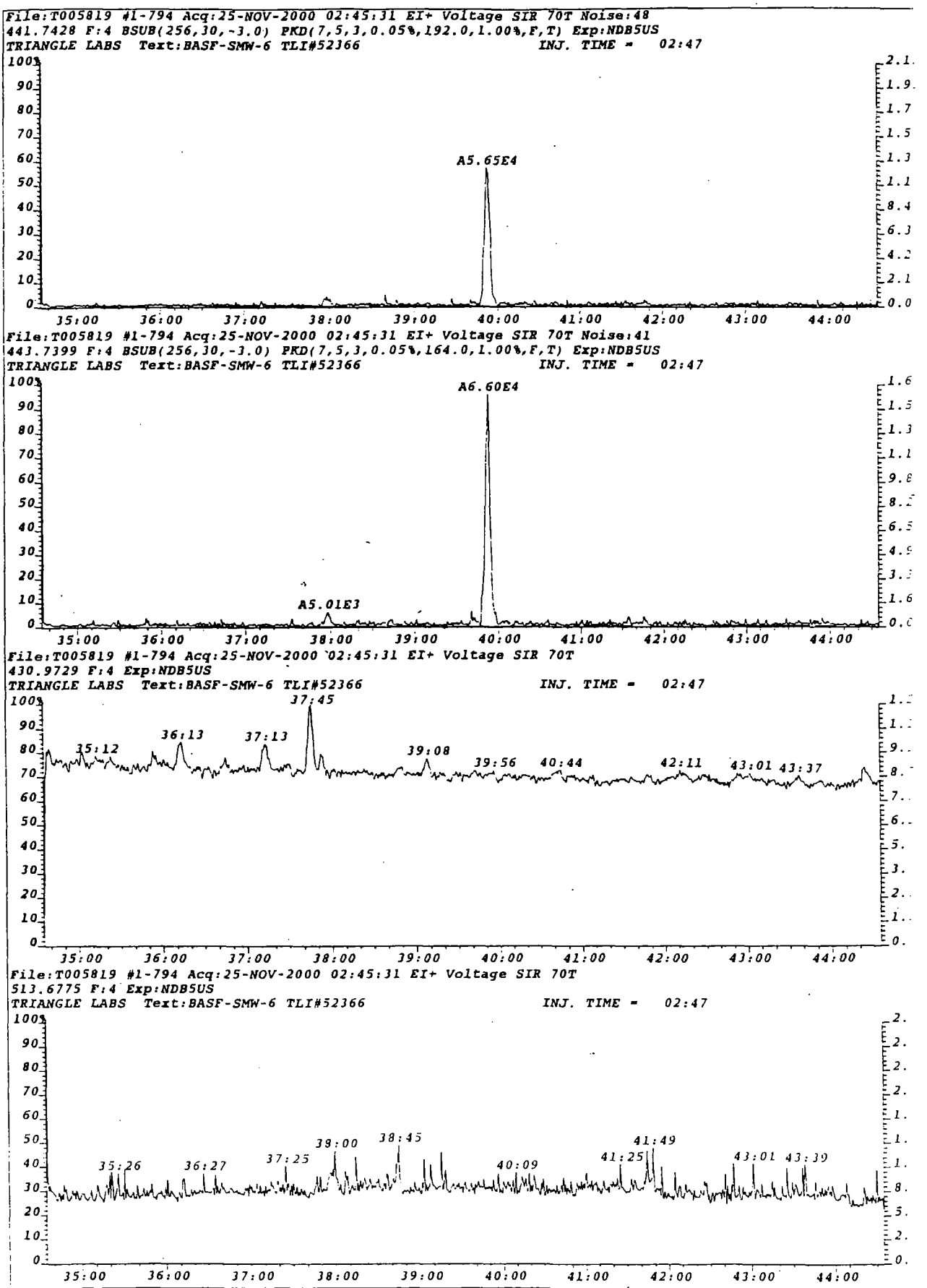
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,312.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A8.89E5
A7.89E5
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:129
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,516.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A8.71E5
A7.68E5
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:202
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,808.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A2.18E5
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:89
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,356.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A2.11E5
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
35:17 35:23 35:31 35:42 35:53 35:58 36:13 36:25 36:33
Time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441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,192.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A5.65E4
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:41
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,164.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A6.60E4
A5.01E3
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
35:12
36:13
37:13
37:45
39:08
39:56
40:44
42:11
43:01
43:37
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
35:26
36:27
37:25
38:00
38:45
40:09
41:25
41:49
43:01
43:39
35:00
36:00
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42:00
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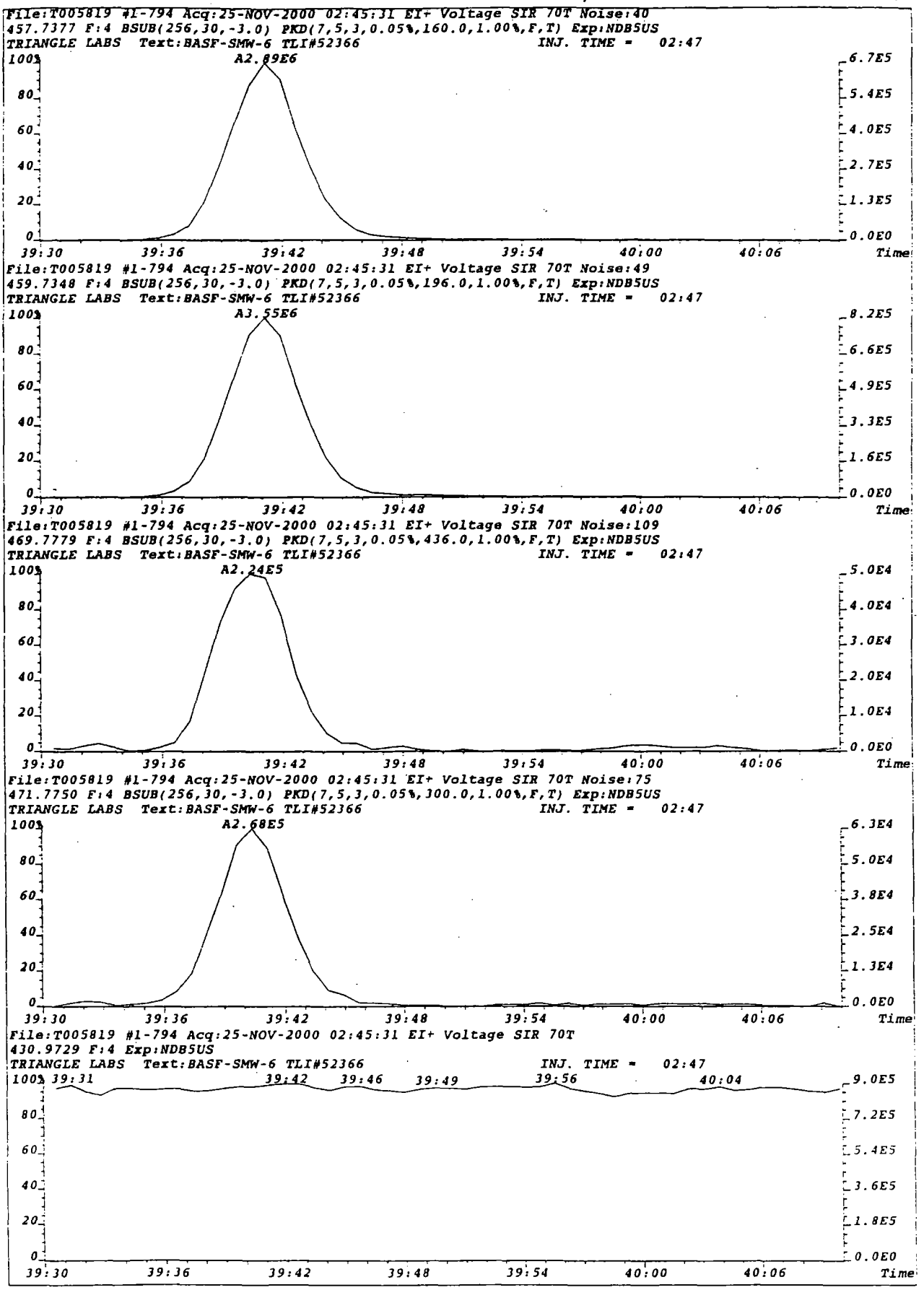
44:00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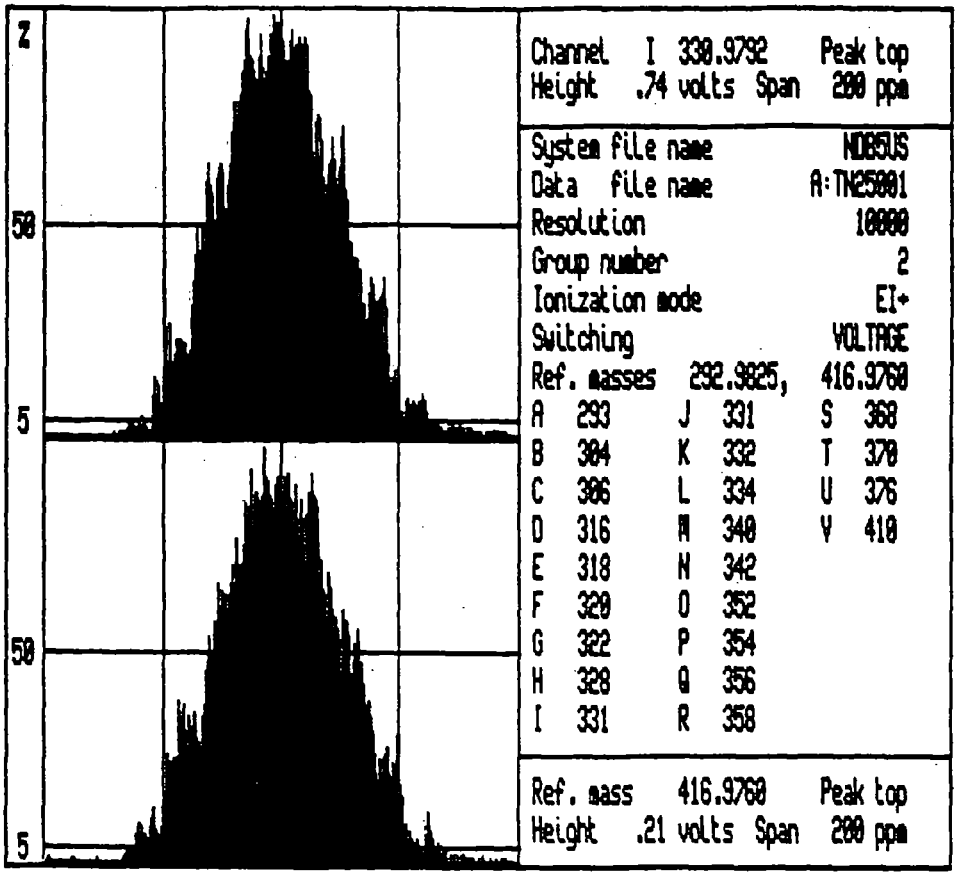
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A2.89E6
6.7E5
5.4E5
4.0E5
2.7E5
1.3E5
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:49
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,196.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A3.55E6
8.2E5
6.6E5
4.9E5
3.3E5
1.6E5
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:109
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,436.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A2.24E5
5.0E4
4.0E4
3.0E4
2.0E4
1.0E4
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T Noise:75
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,300.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
A2.68E5
6.3E4
5.0E4
3.8E4
2.5E4
1.3E4
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005819 #1-794 Acq:25-NOV-2000 02:45:31 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-6 TLI#52366 INJ. TIME = 02:47
39:31 39:42 39:46 39:49 39:56 40:04
9.0E5
7.2E5
5.4E5
3.6E5
1.8E5
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time

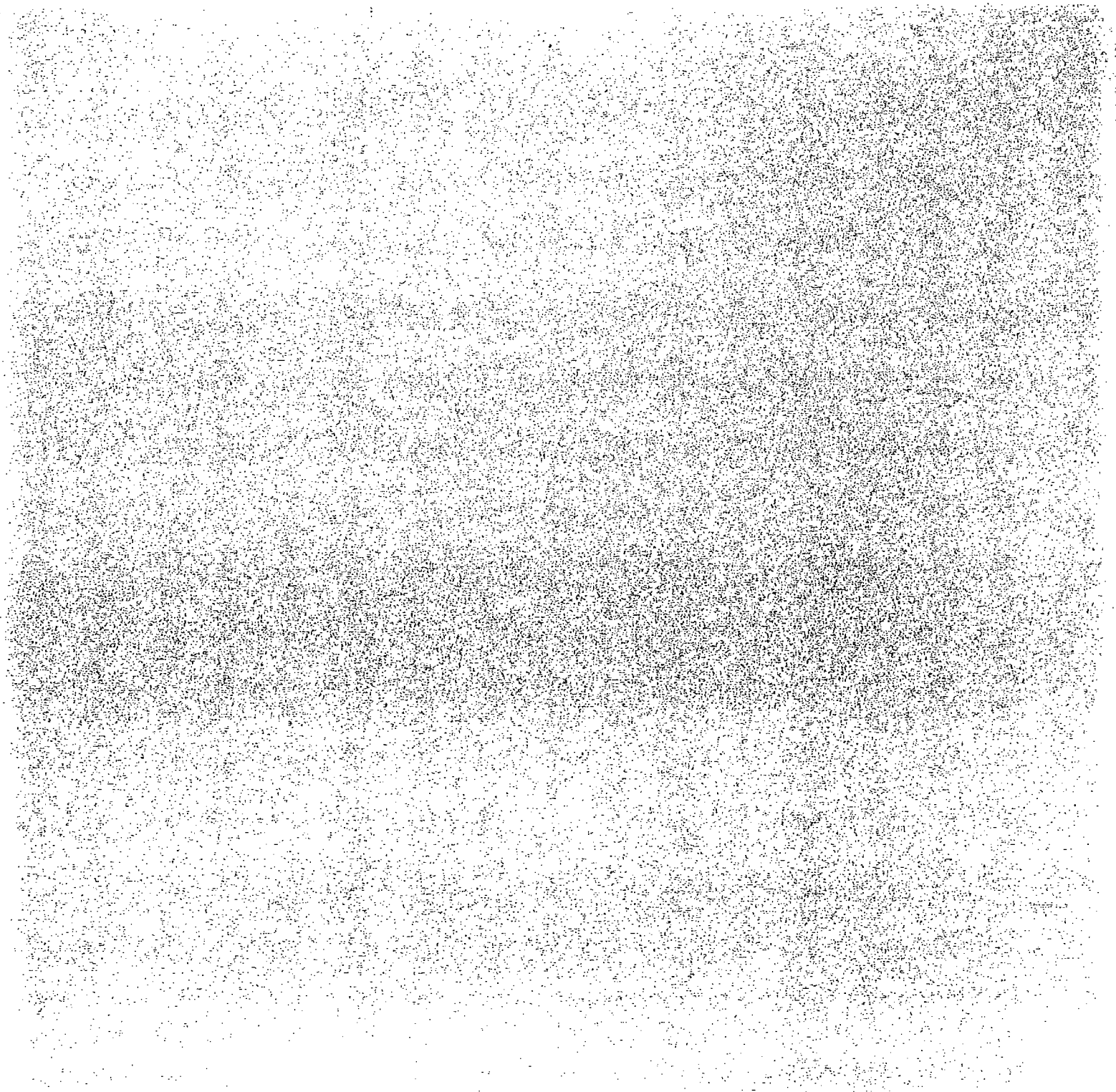


Channel	I	330.9792		Peak top	
Height	.74	volts	Span	200	ppm

System file name	NOBSUS
Data file name	A:TN25001
Resolution	10000
Group number	2
Ionization mode	EI+
Switching	VOLTAGE
Ref. masses	292.9825, 416.9760

A	293	J	331	S	368
B	304	K	332	T	370
C	306	L	334	U	376
D	316	M	340	V	410
E	318	N	342		
F	320	O	352		
G	322	P	354		
H	328	Q	356		
I	331	R	358		

Ref. mass		416.9760		Peak top	
Height	.21	volts	Span	200	ppm



TLI Project: **52366** Method 8290 PCDD/PCDF Analysis (
Client Sample: **BASF-DUP1** Analysis File: **T0058**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/2000**	Spike File:	**SPMIT32S**
TLI ID:	**274-99-4A**	Date Extracted:	**11/21/2000**	ICal:	**TF57140**
		Date Analyzed:	**11/25/2000**	ConCal:	**T005815**
Sample Size:	**1.060 L**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005817**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	EMPC		37.8			
1,2,3,7,8-PeCDD	95.5			1.42	29:42	
1,2,3,4,7,8-HxCDD	68.8			1.21	32:49	
1,2,3,6,7,8-HxCDD	749			1.16	32:54	
1,2,3,7,8,9-HxCDD	304			1.21	33:12	
1,2,3,4,6,7,8-HpCDD	9340			1.07	36:06	
1,2,3,4,6,7,8,9-OCDD	61700			0.81	39:41	E
2,3,7,8-TCDF	358			0.84	24:39	
1,2,3,7,8-PeCDF	ND	19.9				
2,3,4,7,8-PeCDF	163			1.49	29:21	
1,2,3,4,7,8-HxCDF	255			1.32	32:07	
1,2,3,6,7,8-HxCDF	EMPC		75.5			
2,3,4,6,7,8-HxCDF	94.3			1.43	32:42	
1,2,3,7,8,9-HxCDF	EMPC		63.1			
1,2,3,4,6,7,8-HpCDF	EMPC		179			
1,2,3,4,7,8,9-HpCDF	64.9			1.05	36:36	
1,2,3,4,6,7,8,9-OCDF	460			0.88	39:52	

Totals	Conc. (pg/L)	Number	DL	EMPC	Flags
Total TCDD	1290	2		1470	
Total PeCDD	232	2		454	
Total HxCDD	6390	6			
Total HpCDD	17200	2			
Total TCDF	5900	10		6410	
Total PeCDF	2690	6		3190	
Total HxCDF	1410	6		1600	
Total HpCDF	344	3		523	

MIT3_PSR v1.00, LARS 6.2

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Printed: 09:36 11/25/20

TLI Project: **52366** Method 8290 PCDD/PCDF Analysis (
Client Sample: **BASF-DUP1** Analysis File: **T0058**

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	121	6.40	40%-130%	0.79	24:38	V___
$^{13}C_{12}$-2,3,7,8-TCDD	105	5.59	40%-130%	0.80	25:22	V___
$^{13}C_{12}$-1,2,3,7,8-PeCDF	85.6	4.54	40%-130%	1.59	28:38	V___
$^{13}C_{12}$-1,2,3,7,8-PeCDD	118	6.27	40%-130%	1.58	29:40	V___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	66.6	3.53	40%-130%	0.51	32:13	V___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	83.6	4.43	40%-130%	1.31	32:53	V___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	87.1	4.62	25%-130%	0.42	35:04	V___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	90.6	4.80	25%-130%	1.21	36:06	VRO__
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	93.4	2.48	25%-130%	0.80	39:41	V___

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	99.1	5.25	40%-130%	1.48	29:21	V___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	65.8	3.49	40%-130%	0.49	32:07	V___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	106	5.59	40%-130%	2.88	32:48	VRO__
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	61.5	3.26	25%-130%	0.42	36:34	V___

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	169	89.5	40%-130%	25:23	___

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	76.5	4.05	40%-130%	0.49	33:27	V___
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	76.0	4.03	40%-130%	0.50	32:42	V___

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.81	25:10	___
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.21	33:12	___

Data Reviewer: _____ 11/25/2000

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Chromatographic Calculations For File:T005823

QC Front End.....: 1.5159
Tetra/Hexa RS Ratio: 0.7280

Initial ....Date...

Data Review By: _____ ___/___/___

Calculated Noise Height: 0.05

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 T005823B.dbf
11/25/2000 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				0.860-1.077			
304-306	DC	NL				Height	0.10	0.05	0.05				
				21:22	RO	1.38	1.15	0.90	0.65	0.867			
	DC	SN		21:35	RO	0.64	0.21			0.876			
				21:50		0.86	6.29	2.90	3.39	0.886			
				22:11	RO	1.16	1.65	1.08	0.93	0.901			
				22:34		0.87	3.65	1.70	1.95	0.916			
				22:55	RO	1.03	3.13	1.83	1.77	0.930			
				23:12		0.88	3.35	1.57	1.78	0.942			
				23:36		0.76	2.70	1.17	1.53	0.958			
				23:53	RO	1.53	4.19	3.62	2.37	0.970			
				24:09		0.79	24.96	11.04	13.92	0.980			
				24:39		0.84	10.94	4.99	5.95	1.001	2378-TCDF		AN
				25:04	RO	0.99	3.54	1.54	1.56	1.018			
				25:19		0.84	2.01	0.92	1.09	1.028			
				25:29		0.88	13.58	6.34	7.24	1.035			
				25:45		0.81	45.60	20.46	25.14	1.045			
				26:05		0.85	67.13	30.88	36.25	1.059			
				26:24	RO	1.36	1.82	1.40	1.03	1.072			
	DC	WH		26:43		0.85	26.87			1.085			
304-306			16 Peaks				195.69						
13C12-TCDF						0.65-0.89				0.959-1.041			
316-318	DC	NL				Height	0.14	0.08	0.06				
	DC	WL		21:13	RO	1.24	0.58			0.861			
	DC	WL		21:48	RO	1.31	0.23			0.885			
				24:38		0.79	56.33	24.88	31.45	1.000	13C12-2378-TCDF		ISO
						Height	14.34	6.46	7.88				
	DC	WH		25:58	RO	4.39	1.04			1.054			
	DC	WH		26:07	RO	5.09	1.22			1.060			
	DC	WH		26:18	RO	3.74	0.69			1.068			
316-318			1 Peak				56.33						
---------- Above: TCDF / TCDD Follows ----------													
TCDD						0.65-0.89				0.890-1.045			
320-322	DC	NL				Height	0.07	0.04	0.03				
				22:45		0.73	17.99	7.57	10.42	0.897	1368-TCDD		AN
				23:10		0.81	7.68	3.44	4.24	0.913			
	DC	SN		23:30	RO	0.05	0.67			0.926			
	DC	SN		23:37	RO	0.24	0.21			0.931			
	DC	SN		23:47	RO	1.40	0.09			0.938			
	DC	SN		23:49	RO	1.40	0.09			0.939			
				24:10	RO	0.58	2.34	1.02	1.76	0.953			

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		24:25	RO	2.63	0.14			0.963			
	DC	SN		24:50	RO	1.20	0.18			0.979			
				25:23	RO	0.98	0.74	0.32	0.55	1.001	2378-TCDD	AN	
	DC	SN		25:43	RO	1.25	0.42			1.014			
	DC	SN		25:52	RO	0.13	0.07			1.020			
	DC	SN		26:05	RO	1.70	0.35			1.028			
	DC	SN		26:12	RO	1.00	0.19			1.033			
				26:18	RO	0.94	0.39	0.17	0.18	1.037			
	DC	SN		26:23	RO	1.20	0.27			1.040			
	DC	WH		26:36	RO	1.43	0.25			1.049			
	DC	WH		26:52		0.78	0.16			1.059			
320-322			5	Peaks			29.14						
37Cl-TCDD										0.921-1.079			
328	DC	NL				Height	0.13	0.13					
	DC	WL		23:03			4.09			0.909			
	DC	WL		23:10			4.72			0.913			
				23:29			1.12	1.12		0.926			
				23:58			401.21	401.21		0.945			
				24:43			0.19	0.19		0.974			
				25:23			54.70	54.70		1.001	37Cl-TCDD	CLS	
				25:47			4.81	4.81		1.016			
				25:56			0.60	0.60		1.022			
				25:59			0.73	0.73		1.024			
				26:07			0.72	0.72		1.030			
				26:10			0.64	0.64		1.032			
				26:20			0.64	0.64		1.038			
				26:36			0.37	0.37		1.049			
				26:43			4.89	4.89		1.053			
328			12	Peaks			470.62						
13C12-TCDD						0.65-0.89				0.921-1.079			
332-334	DC	NL				Height	0.48	0.45	0.03				
				25:10		0.81	687.06	307.21	379.85	0.992	13C12-1234-TCDD	RS1	
				25:22		0.80	40.40	18.01	22.39	1.000	13C12-2378-TCDD	IS1	
						Height	11.18	5.15	6.03				
				26:07	RO	99.99	0.46	67.27	0.26	1.030			
				26:17	RO	39.39	0.81	18.12	0.46	1.036			
332-334			4	Peaks			728.73						
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF						...2-1.78				0.923-1.064			
340-342	DC	NL				Height	0.08	0.04	0.04				
				26:37	RO	1.31	3.83	1.97	1.50	0.930			
	DC	SN		26:57	RO	5.33	0.08			0.941			
	DC	SN		27:05	RO	1.07	0.38			0.946			
	DC	SN		27:16	RO	2.39	0.46			0.952			
				27:23		1.52	0.58	0.35	0.23	0.956			J
	DC	SN		27:30	RO	3.75	0.10			0.960			
				27:47		1.43	6.68	3.93	2.75	0.970			
				28:02	RO	0.93	1.14	0.69	0.74	0.979			

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.
				28:16	RO	2.03	0.74	0.59	0.29	0.987			J
				28:22	RO	2.03	0.89	0.71	0.35	0.991			
				28:43		1.55	25.36	15.43	9.93	1.003			
				28:56		1.51	4.39	2.64	1.75	1.010			
				29:21		1.49	2.99	1.79	1.20	1.025	23478-PeCDF	AN	
				29:32	RO	2.07	2.07	1.68	0.81	1.031			
				29:58	RO	3.36	0.56	0.74	0.22	1.047			J
				30:04		1.46	8.88	5.27	3.61	1.050			
340-342			12	Peaks			58.11						
13C12-PeCDF				1.32-1.78					0.860-1.140				
352-354	DC	NL		Height			0.08	0.04	0.04				
	DC	SN	26:40	RO		0.95	0.35			0.931			
			26:49			1.43	1.19	0.70	0.49	0.937			
	DC	SN	27:05	RO		6.75	0.20			0.946			
			27:10	RO		1.00	0.69	0.27	0.27	0.949			
	DC	SN	27:47	RO		2.15	0.87			0.970			
	DC	SN	28:12	RO		2.00	0.31			0.985			
	DC	SN	28:26	RO		2.50	0.46			0.993			
			28:38			1.59	37.39	22.95	14.44	1.000	13C12-PeCDF 123	IS2	
				Height			12.98	7.81	5.17				
	DC	SN	28:56	RO		1.07	0.38			1.010			
	DC	SN	29:03	RO		5.00	0.15			1.015			
			29:21			1.48	42.83	25.58	17.25	1.025	13C12-PeCDF 234	SUR1	
			29:34			1.61	1.07	0.66	0.41	1.033			
			30:04	RO		0.94	0.56	0.34	0.36	1.050			
	DC	SN	30:10	RO		3.33	0.15			1.054			
			30:19	RO		0.87	0.44	0.27	0.31	1.059			
352-354			7	Peaks			84.17						
---------- Above: PeCDF / PeCDD Follows ----------													
PeCDD				1.32-1.78					0.933-1.021				
356-358	DC	NL		Height			0.08	0.03	0.05				
	DC	SN	28:07	RO		0.03	0.20			0.948			
			28:21	RO		0.98	0.72	0.44	0.45	0.956			J
			28:37	RO		1.20	1.53	0.72	0.60	0.965			
			28:45			1.34	2.25	1.29	0.96	0.969			
			29:00	RO		3.13	0.38	0.47	0.15	0.978			J
			29:11	RO		0.73	0.74	0.45	0.62	0.984			J
	DC	SN	29:23			1.75	0.55			0.990			
	DC	SN	29:32			1.53	0.48			0.996			
			29:42			1.42	1.57	0.92	0.65	1.001	12378-PeCDD	AN	
	DC	SN	29:51	RO		0.34	0.39			1.006			
			30:09	RO		0.47	0.28	0.17	0.36	1.016			J
	DC	WH	30:29			1.33	0.21			1.028			
	DC	WH	30:33	RO		0.43	0.15			1.030			
356-358			7	Peaks			7.47						
13C12-PeCDD				1.32-1.78					0.865-1.135				
368-370	DC	NL		Height			0.16	0.13	0.03				
	DC	SN	28:01	RO		3.67	0.31			0.944			

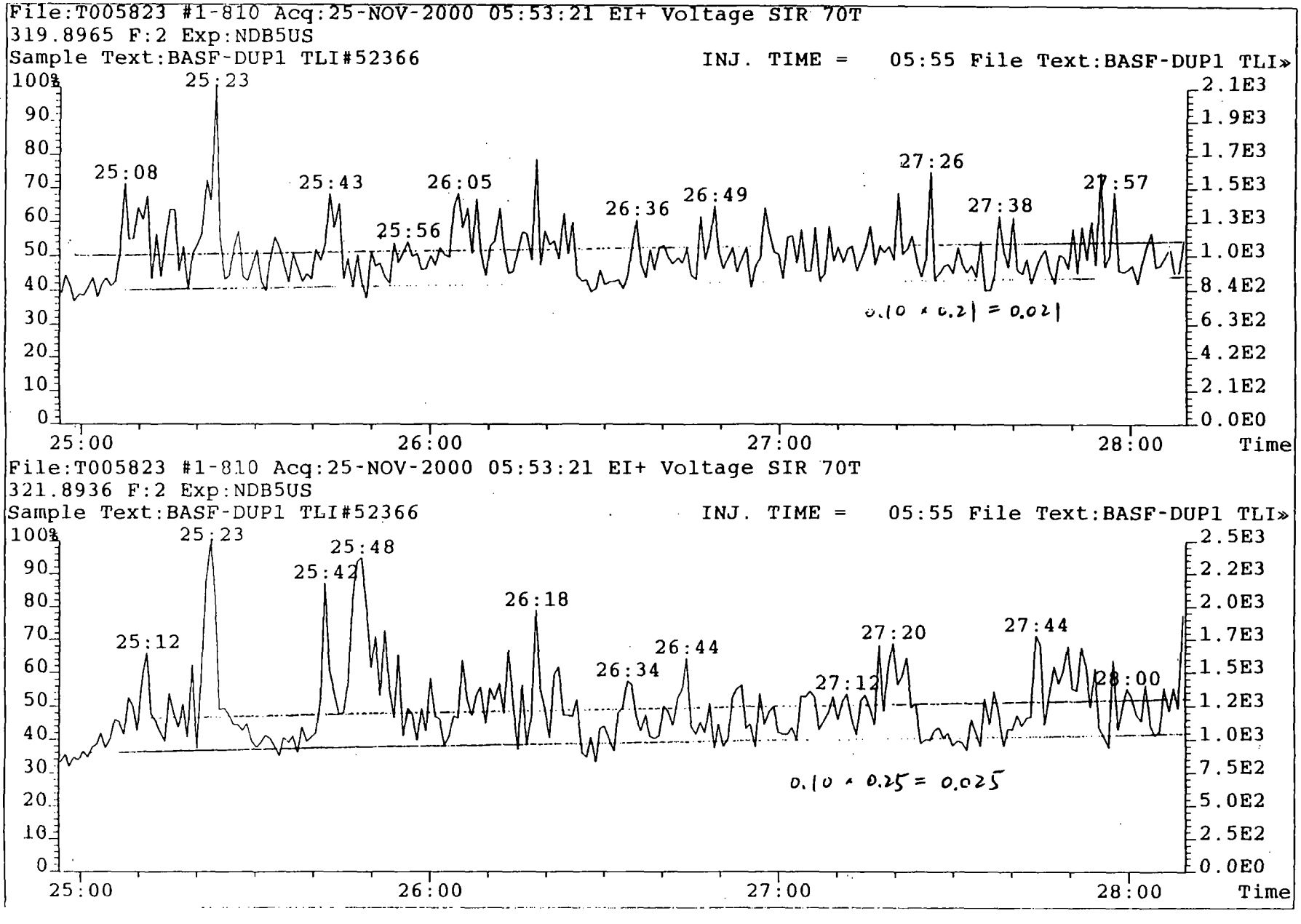
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				28:23	RO	10.37	2.40	9.75	0.94	0.957			
				29:07	RO	3.72	1.84	2.68	0.72	0.981			
				29:40		1.58	29.38	17.98	11.40	1.000	13C12-PeCDD 123	IS3	
						Height	8.76	5.04	3.72				
	DC	SN		29:53	RO	2.83	0.15			1.007			
				30:03	RO	6.46	0.89	2.26	0.35	1.013			
				30:16	RO	0.73	0.67	0.41	0.56	1.020			
				30:34	RO	4.57	0.36	0.64	0.14	1.030			
368-370			6	Peaks			35.54						
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF						1.05-1.43			0.961-1.046				
374-376	DC	NL				Height	0.15	0.07	0.08				
				31:09		1.13	0.68	0.36	0.32	0.967			J
				31:17		1.36	3.23	1.86	1.37	0.971			
	DC	SN		31:34		1.08	0.25			0.980			
				31:44		1.26	6.62	3.69	2.93	0.985			
				31:59	RO	1.51	0.92	0.62	0.41	0.993			J
				32:07		1.32	5.47	3.11	2.36	0.997	123478-HxCDF	AN	
				32:14	RO	1.58	1.70	1.20	0.76	1.001	123678-HxCDF	AN	
				32:23		1.29	10.99	6.19	4.80	1.005			
				32:42		1.43	1.92	1.13	0.79	1.015	234678-HxCDF	AN	
				33:26	RO	0.85	1.05	0.58	0.68	1.038	123789-HxCDF	AN	
	DC	WH		33:56	RO	1.03	0.74			1.053			
374-376			9	Peaks			32.58						
13C12-HxCDF						0.43-0.59			0.876-1.124				
384-386	DC	NL				Height	0.37	0.18	0.19				
				32:07		0.49	38.45	12.68	25.77	0.997	13C12-HxCDF 478	SUR2	
				32:13		0.51	39.51	13.43	26.08	1.000	13C12-HxCDF 678	IS4	
						Height	13.47	4.60	8.87				
	DC	SN		32:28		0.53	0.23			1.008			
				32:42		0.50	41.10	13.75	27.35	1.015	13C12-HxCDF 234	ALT2	
				32:50	RO	1.17	0.36	0.28	0.24	1.019			
				33:10	RO	1.81	0.47	0.56	0.31	1.029			
				33:27		0.49	30.41	9.97	20.44	1.038	13C12-HxCDF 789	ALT1	
				33:39	RO	1.25	1.33	1.10	0.88	1.044			
384-386			7	Peaks			151.63						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD						1.05-1.43			0.956-1.013				
390-392	DC	NL				Height	0.22	0.10	0.12				
				31:39		1.17	18.50	9.99	8.51	0.962			
				32:05		1.29	3.14	1.77	1.37	0.976			
				32:18		1.22	66.68	36.60	30.08	0.982			
	DC	SN		32:34	RO	0.83	0.09			0.990			
				32:49		1.21	1.15	0.63	0.52	0.998	123478-HxCDD	AN	
				32:54		1.16	12.52	6.73	5.79	1.001	123678-HxCDD	AN	
				33:12		1.21	5.14	2.81	2.33	1.010	123789-HxCDD	AN	
390-392			6	Peaks			107.13						

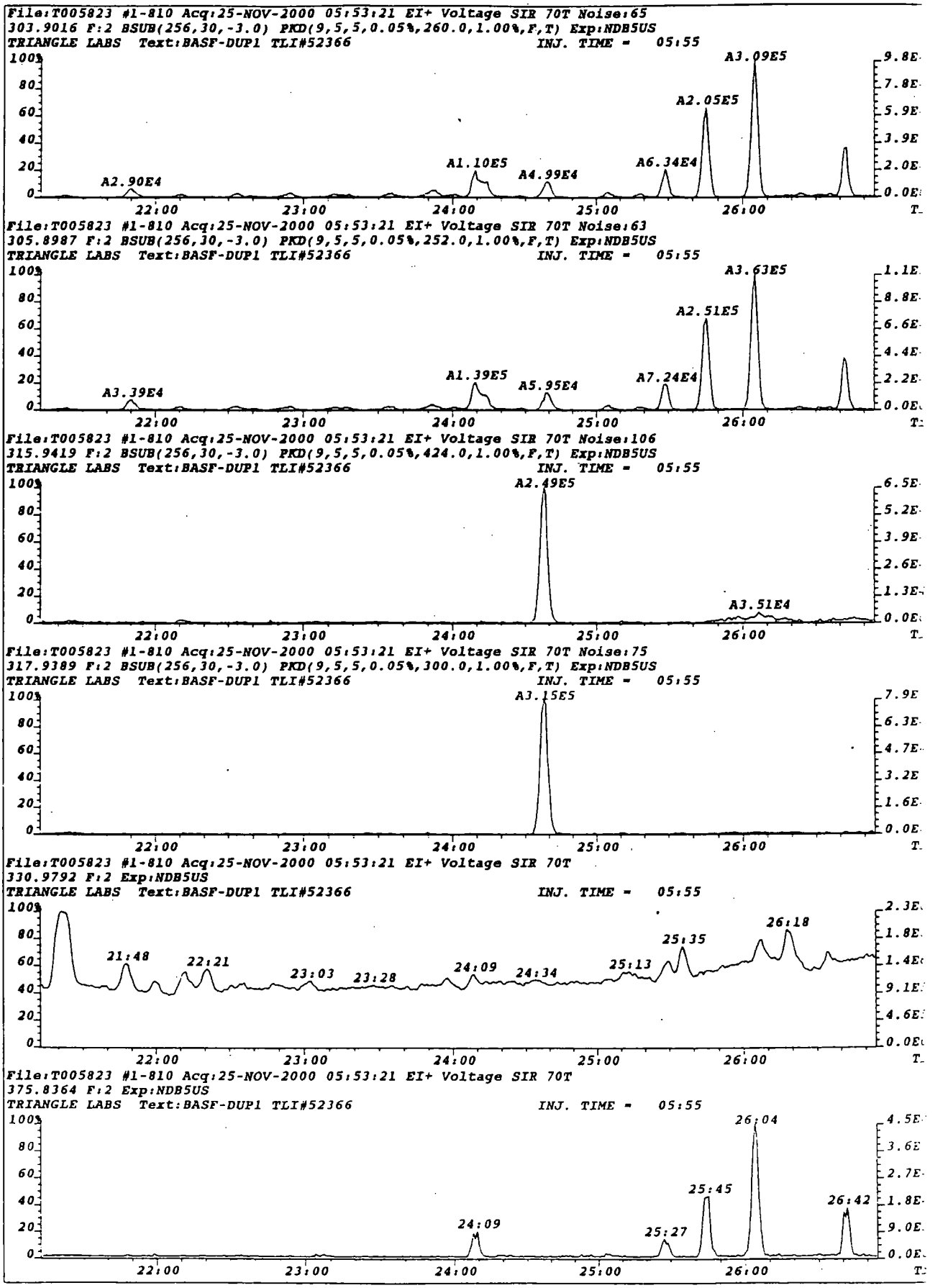
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
13C12-HxCDD						1.05-1.43				0.970-1.030			
402-404	DC	NL				Height	1.52	1.10	0.42				
	DC	WL		31:29	RO	10.07	12.59			0.957			
	DC	WL		31:47	RO	8.77	9.74			0.967			
				32:48	RO	2.88	40.52	52.18	18.09	0.997	13C12-HxCDD	478	SUR3
				32:53		1.31	31.03	17.58	13.45	1.000	13C12-HxCDD	678	IS5
						Height	9.74	5.39	4.35				
				33:00	RO	8.47	6.70	25.34	2.99	1.004			
				33:12		1.21	771.03	421.99	349.04	1.010	13C12-HxCDD	789	RS2
402-404			4	Peaks			849.28						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF						0.88-1.20				0.995-1.048			
408-410	DC	NL				Height	0.14	0.09	0.05				
				35:04	RO	1.21	4.12	2.44	2.02	1.000	1234678-HpCDF		AN
				35:19		1.05	1.29	0.66	0.63	1.007			
				35:29		1.06	4.39	2.26	2.13	1.012			
				36:36		1.05	1.15	0.59	0.56	1.044	1234789-HpCDF		AN
408-410			4	Peaks			10.95						
13C12-HpCDF						0.37-0.51				0.943-1.114			
418-420	DC	NL				Height	0.19	0.07	0.12				
				35:04		0.42	34.52	10.22	24.30	1.000	13C12-HpCDF	678	IS6
						Height	10.32	2.96	7.36				
				36:34		0.42	18.97	5.60	13.37	1.043	13C12-HpCDF	789	SUR4
418-420			2	Peaks			53.49						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD						0.88-1.20				0.974-1.005			
424-426	DC	NL				Height	0.18	0.10	0.08				
				35:21		1.00	113.11	56.60	56.51	0.979			
				36:06		1.07	134.57	69.48	65.09	1.000	1234678-HpCDD		AN
	DC	WH		36:22	RO	0.87	0.39			1.007			
424-426			2	Peaks			247.68						
13C12-HpCDD						0.88-1.20				0.972-1.028			
436-438	DC	NL				Height	1.40	1.14	0.26				
				35:15	RO	3.79	8.20	15.23	4.02	0.976			
				35:35	RO	3.00	7.22	10.61	3.54	0.986			
				36:06	RO	1.21	31.78	18.92	15.58	1.000	13C12-HpCDD	678	IS7
						Height	8.98	4.83	4.15				
				36:15	RO	3.51	33.60	57.79	16.47	1.004			
436-438			4	Peaks			80.80						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF						0.76-1.02				0.899-1.101			
442-444	DC	NL				Height	0.07	0.03	0.04				
	DC	SN		36:06	RO	1.50	0.11			0.910			
	DC	SN		36:12	RO	0.54	0.15			0.912			

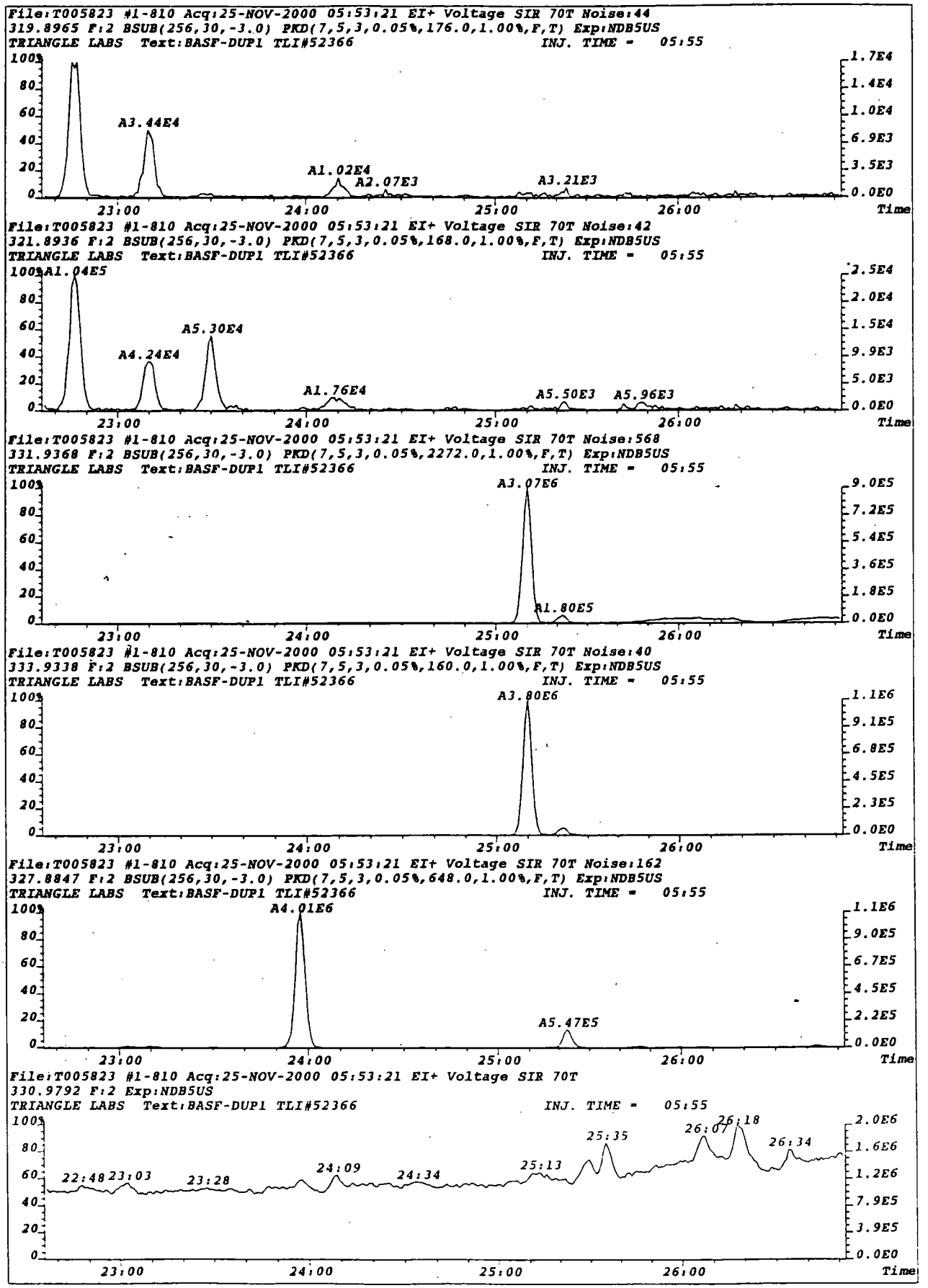
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
	DC	SN		36:31	RO	0.44	0.08			0.920			
	DC	SN		36:57	RO	1.38	0.15			0.931			
	DC	SN		37:02		0.83	0.11			0.933			
	DC	SN		37:09		0.83	0.22			0.936			
	DC	SN		37:20	RO	1.21	0.26			0.941			
	DC	SN		37:48		0.89	0.17			0.953			
	DC	SN		37:54		0.78	0.16			0.955			
	DC	SN		38:00		1.00	0.24			0.958			
	DC	SN		38:10		1.00	0.14			0.962			
	DC	SN		39:31	RO	2.50	0.04			0.996			
	DC	SN		39:43	RO	1.67	0.23			1.001			
				39:52		0.88	3.57	1.67	1.90	1.005	OCDF		AN
	DC	SN		40:08	RO	0.75	0.06			1.011			
	DC	SN		41:16	RO	1.20	0.09			1.040			
	DC	SN		42:04		1.00	0.16			1.060			
	DC	SN		42:57	RO	0.50	0.11			1.082			
	DC	SN		43:03	RO	0.47	0.15			1.085			
442-444			1 Peak				3.57						
OCDD					0.76-1.02					0.899-1.101			
458-460	DC	NL			Height		0.08	0.04	0.04				
				39:41		0.81	398.29	178.11	220.18	1.000	OCDD		AN E
				39:58	RO	1.50	0.26	0.21	0.14	1.007			
458-460			2 Peaks				398.55						
13C12-OCDD					0.76-1.02					0.996-1.004			
470-472	DC	NL			Height		4.92	3.73	1.19				
				39:41		0.80	26.65	11.84	14.81	1.000	13C12-OCDD		IS8
					Height		6.42	2.99	3.43				
				39:48	RO	3.54	9.81	18.39	5.19	1.003			
470-472			2 Peaks				36.46						

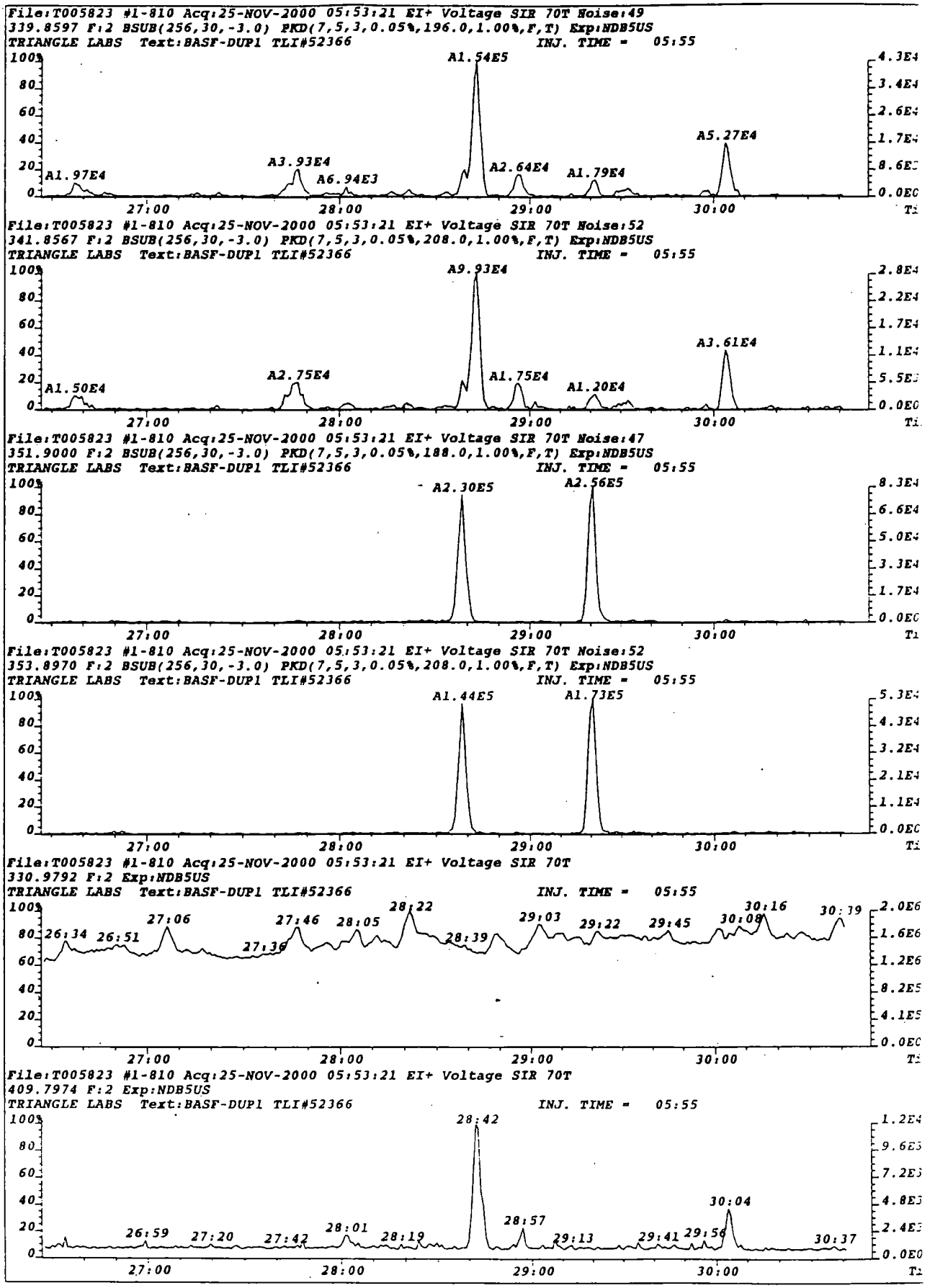
Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside 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

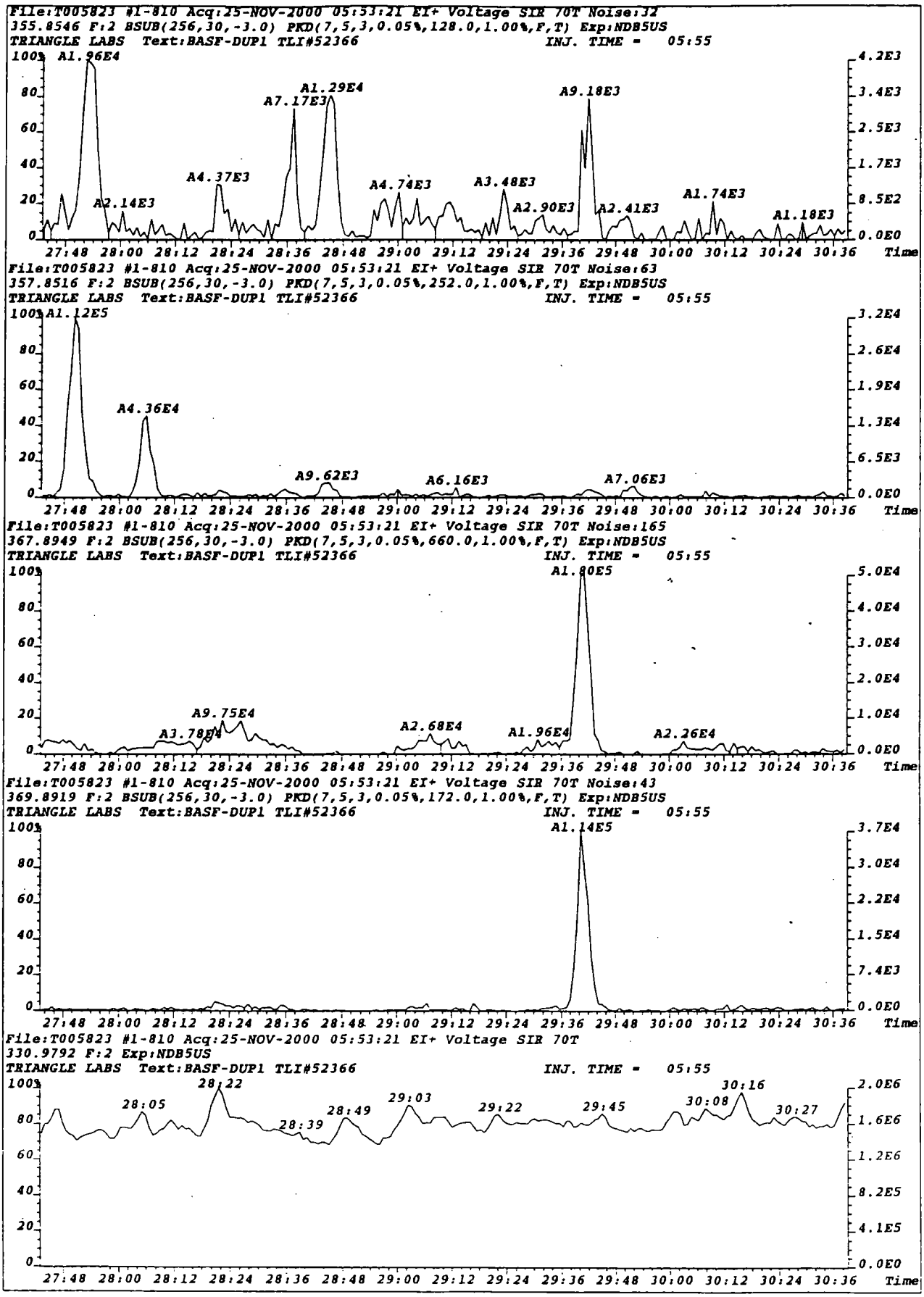
*** End of Report ***

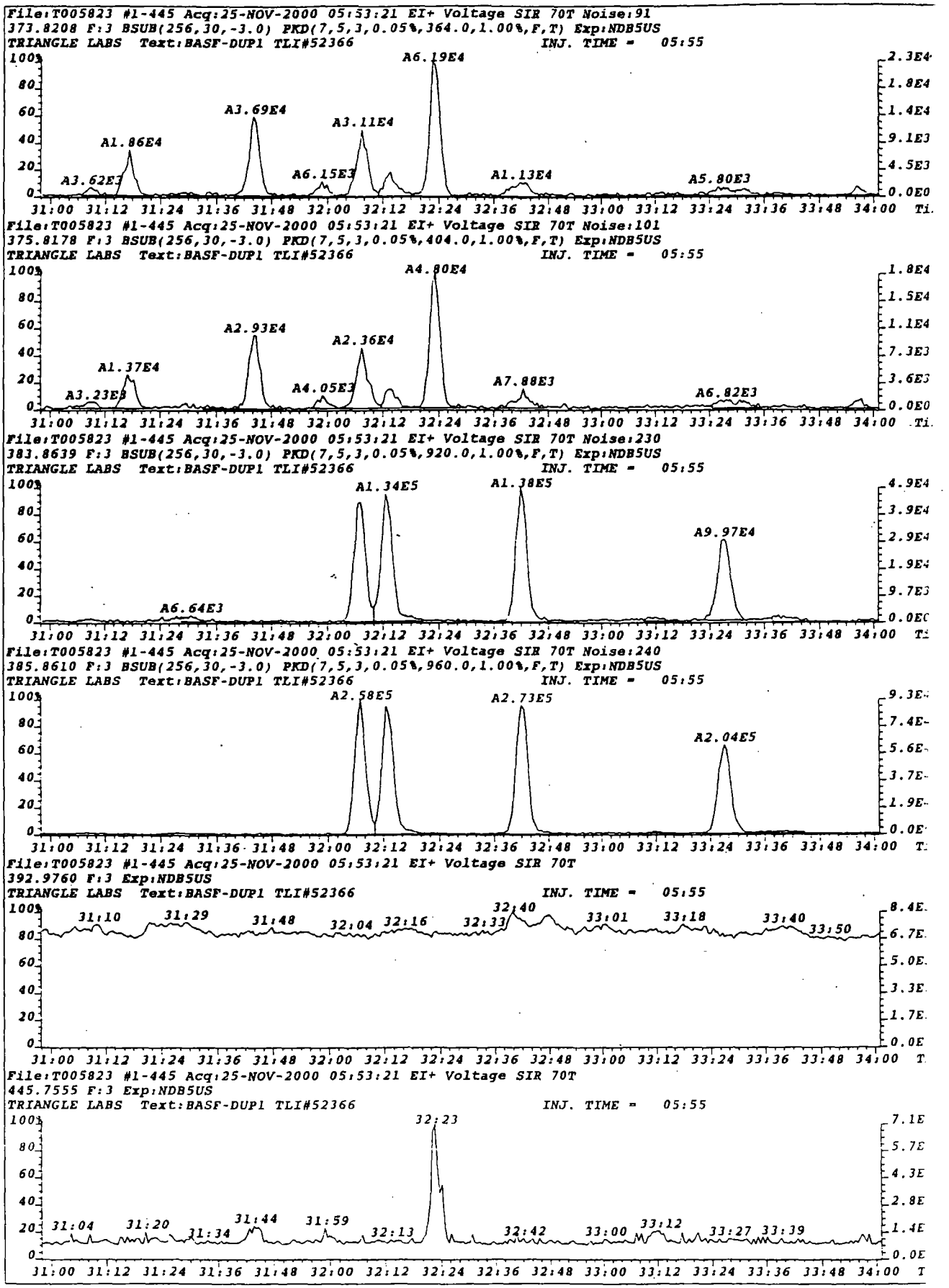

File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
319.8965 F:2 Exp:NDB5US
Sample Text:BASF-DUP1 TLI#52366
INJ. TIME = 05:55 File Text:BASF-DUP1 TLI»
25:23
25:08
25:43
26:05
25:56
26:36
26:49
27:26
27:38
27:57
0.10 × 0.21 = 0.021
25:00
26:00
27:00
28:00
Time
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
321.8936 F:2 Exp:NDB5US
Sample Text:BASF-DUP1 TLI#52366
INJ. TIME = 05:55 File Text:BASF-DUP1 TLI»
25:23
25:48
25:42
25:12
26:18
26:44
26:34
27:20
27:12
27:44
28:00
0.10 × 0.25 = 0.025
25:00
26:00
27:00
28:00
Time

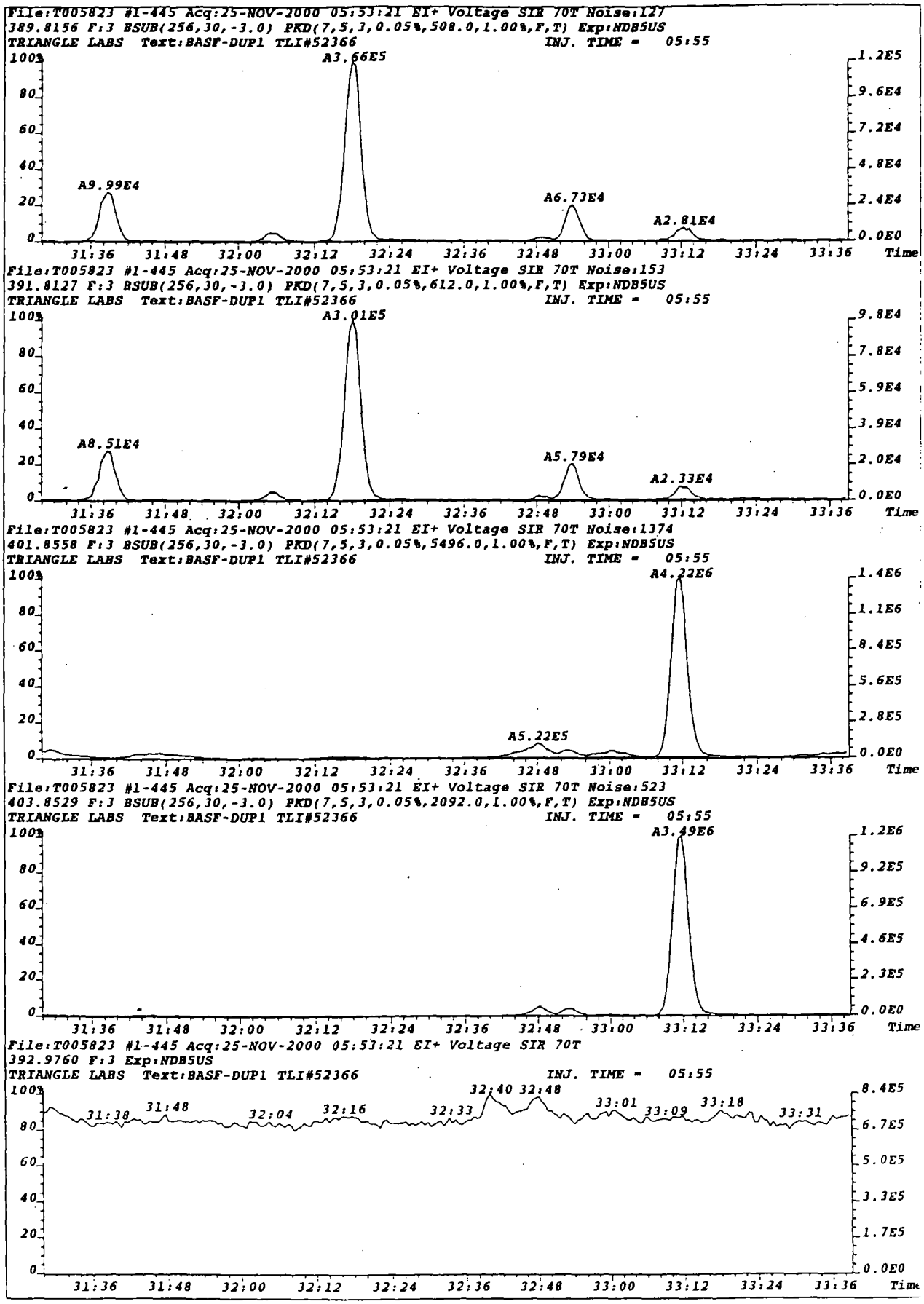

File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:65
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A2.90E4
A1.10E5
A4.99E4
A6.34E4
A2.05E5
A3.09E5
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:63
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A3.39E4
A1.39E5
A5.95E4
A7.24E4
A2.51E5
A3.63E5
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:106
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,424.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A2.49E5
A3.51E4
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:75
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,300.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A3.15E5
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
21:48
22:21
23:03
23:28
24:09
24:34
25:13
25:35
26:18
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
24:09
25:27
25:45
26:04
26:42
22:00
23:00
24:00
25:00
26:00

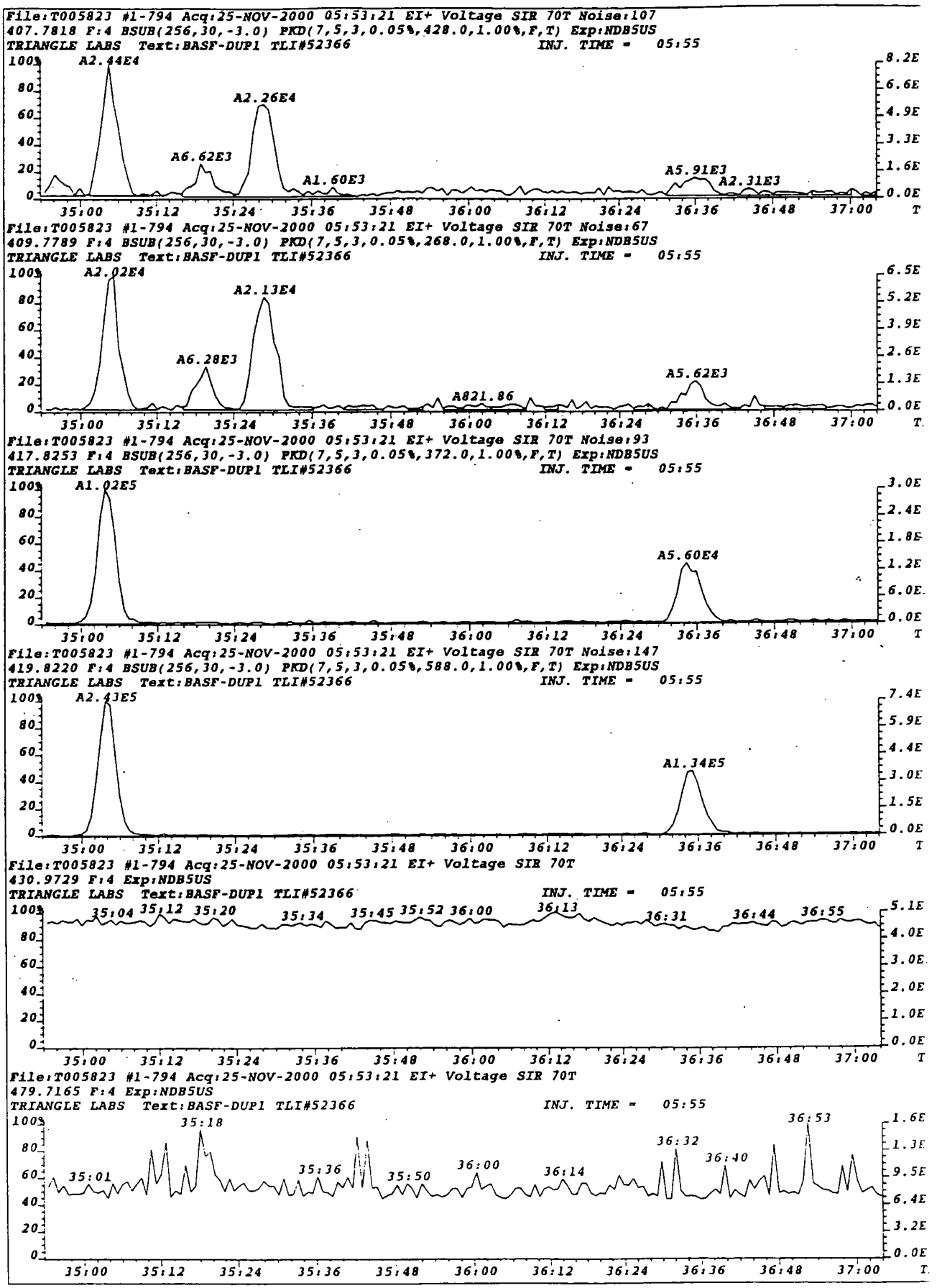

File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:44
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,176.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A3.44E4
A1.02E4
A2.07E3
A3.21E3
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:42
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,168.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A1.04E5
A5.30E4
A4.24E4
A1.76E4
A5.50E3
A5.96E3
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:568
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2272.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A3.07E6
A1.80E5
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:40
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A3.80E6
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:162
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,648.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A4.01E6
A5.47E5
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
22:48
23:03
23:28
24:09
24:34
25:13
25:35
26:07
26:18
26:34
23:00
24:00
25:00
26:00
Time

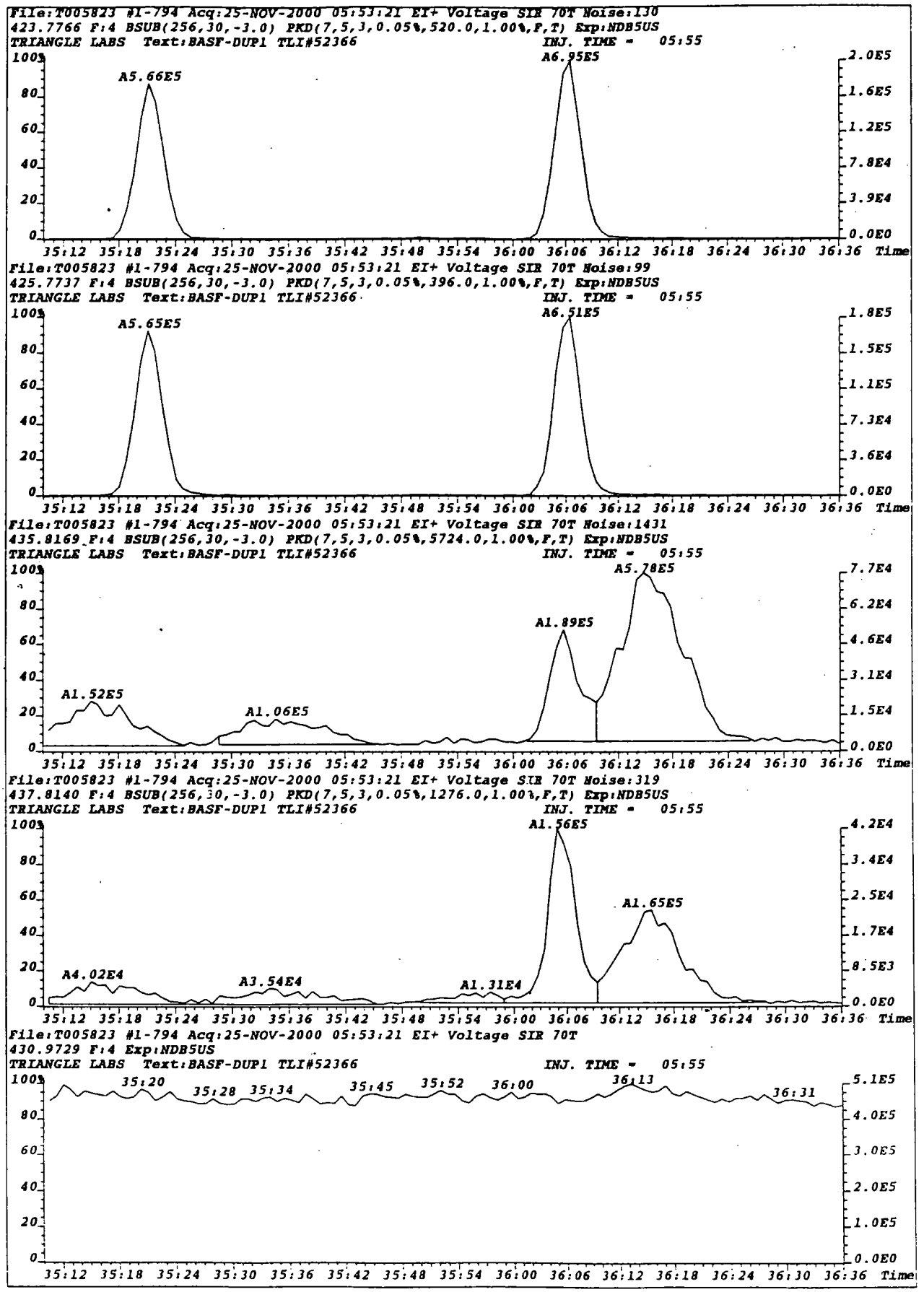

File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:49
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,196.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A1.54E5
A5.27E4
A3.93E4
A2.64E4
A1.79E4
A1.97E4
A6.94E3
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:52
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,208.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A9.93E4
A3.61E4
A2.75E4
A1.75E4
A1.20E4
A1.50E4
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:47
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,188.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A2.30E5
A2.56E5
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:52
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,208.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A1.44E5
A1.73E5
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
26:34
26:51
27:06
27:36
27:46
28:05
28:22
28:39
29:03
29:22
29:45
30:08
30:16
30:39
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
28:42
26:59
27:20
27:42
28:01
28:19
28:57
29:13
29:41
29:56
30:04
30:37
27:00
28:00
29:00
30:00

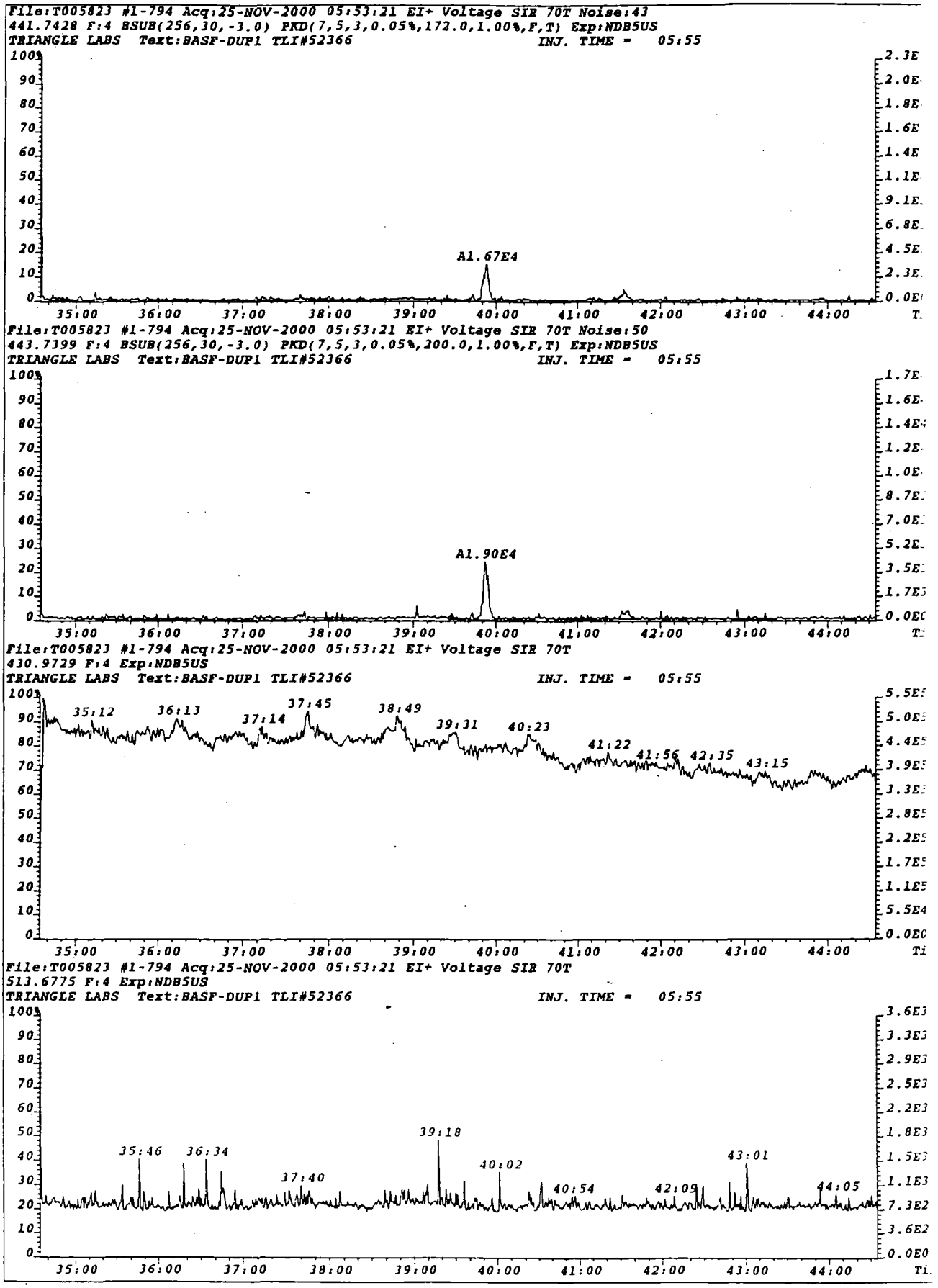

File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:32
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,128.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A1.96E4
A1.29E4
A7.17E3
A9.18E3
A4.37E3
A4.74E3
A3.48E3
A2.14E3
A2.90E3
A2.41E3
A1.74E3
A1.18E3
Time
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:63
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A1.12E5
A4.36E4
A9.62E3
A6.16E3
A7.06E3
Time
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:165
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,660.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A1.80E5
A9.75E4
A3.78E4
A2.68E4
A1.96E4
A2.26E4
Time
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:43
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A1.14E5
Time
File:T005823 #1-810 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
28:22
28:05
28:49
29:03
29:22
29:45
30:16
30:08
30:27
28:39
Time

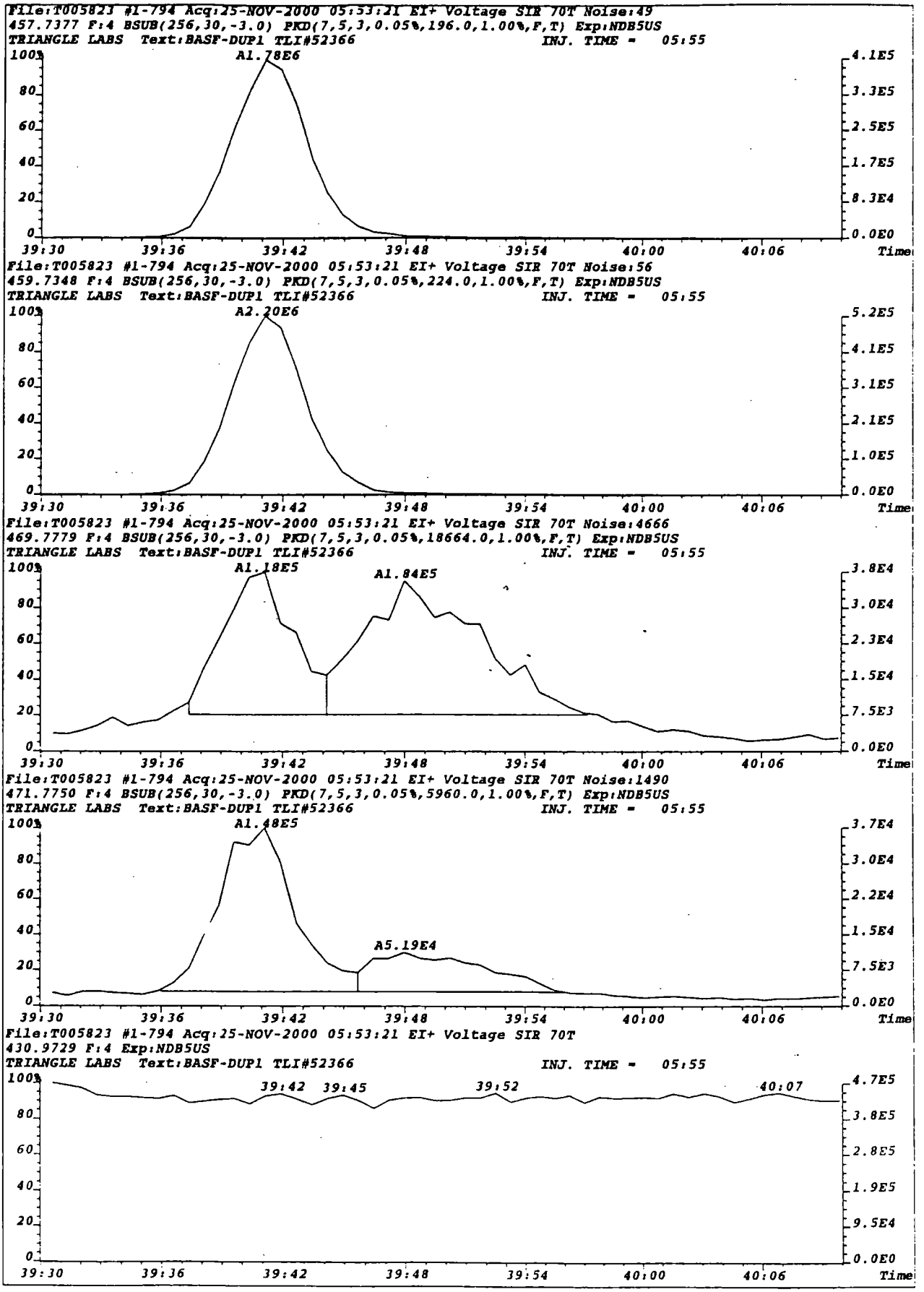

File:T005823 #1-445 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:91
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A6.19E4
A3.69E4
A3.11E4
A1.86E4
A6.15E3
A1.13E4
A5.80E3
A3.62E3
File:T005823 #1-445 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:101
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,404.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A4.80E4
A2.93E4
A2.36E4
A1.37E4
A4.05E3
A7.88E3
A6.82E3
A3.23E3
File:T005823 #1-445 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:230
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,920.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A1.34E5
A1.38E5
A9.97E4
A6.64E3
File:T005823 #1-445 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:240
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,960.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A2.58E5
A2.73E5
A2.04E5
File:T005823 #1-445 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
31:10
31:29
31:48
32:04
32:16
32:33
32:40
33:01
33:18
33:40
33:50
File:T005823 #1-445 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
32:23
31:04
31:20
31:34
31:44
31:59
32:13
32:42
33:00
33:12
33:27
33:39

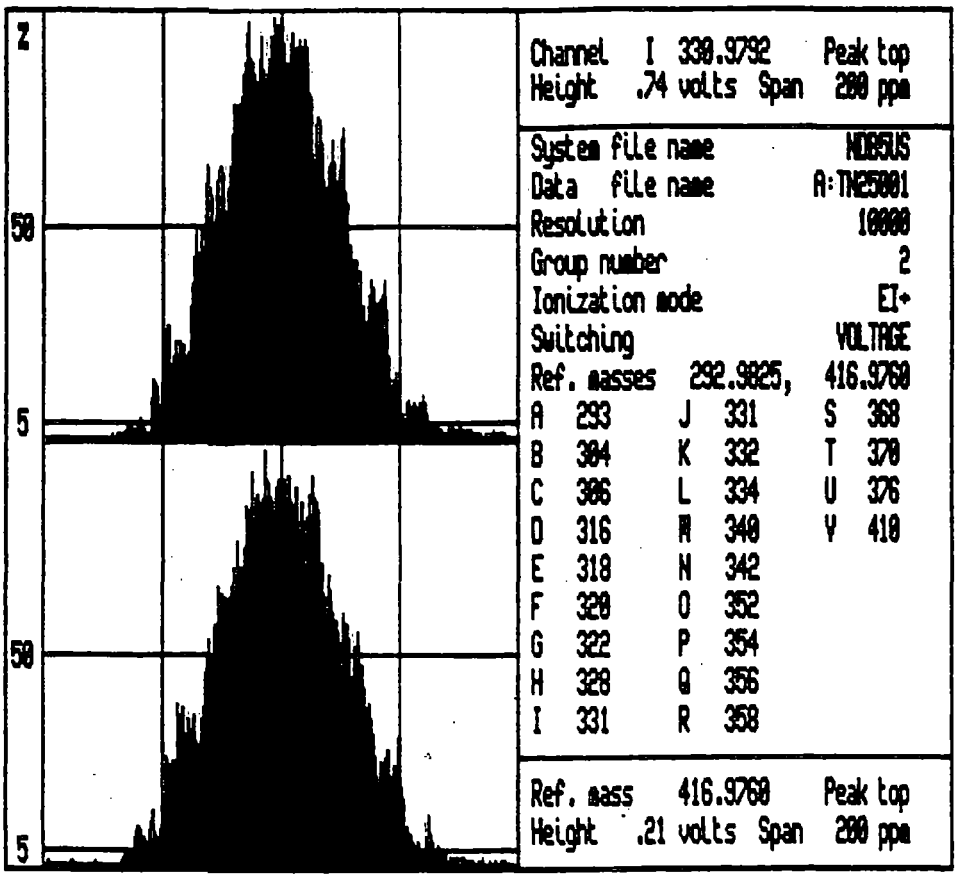

File:T005823 #1-445 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:127
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,508.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366
INJ. TIME = 05:55
A3.66E5
A9.99E4
A6.73E4
A2.81E4
File:T005823 #1-445 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:153
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,612.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366
INJ. TIME = 05:55
A3.01E5
A8.51E4
A5.79E4
A2.33E4
File:T005823 #1-445 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:1374
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,5496.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366
INJ. TIME = 05:55
A4.22E6
A5.22E5
File:T005823 #1-445 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:523
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2092.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366
INJ. TIME = 05:55
A3.49E6
File:T005823 #1-445 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366
INJ. TIME = 05:55
31:36 31:48 32:00 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 Time

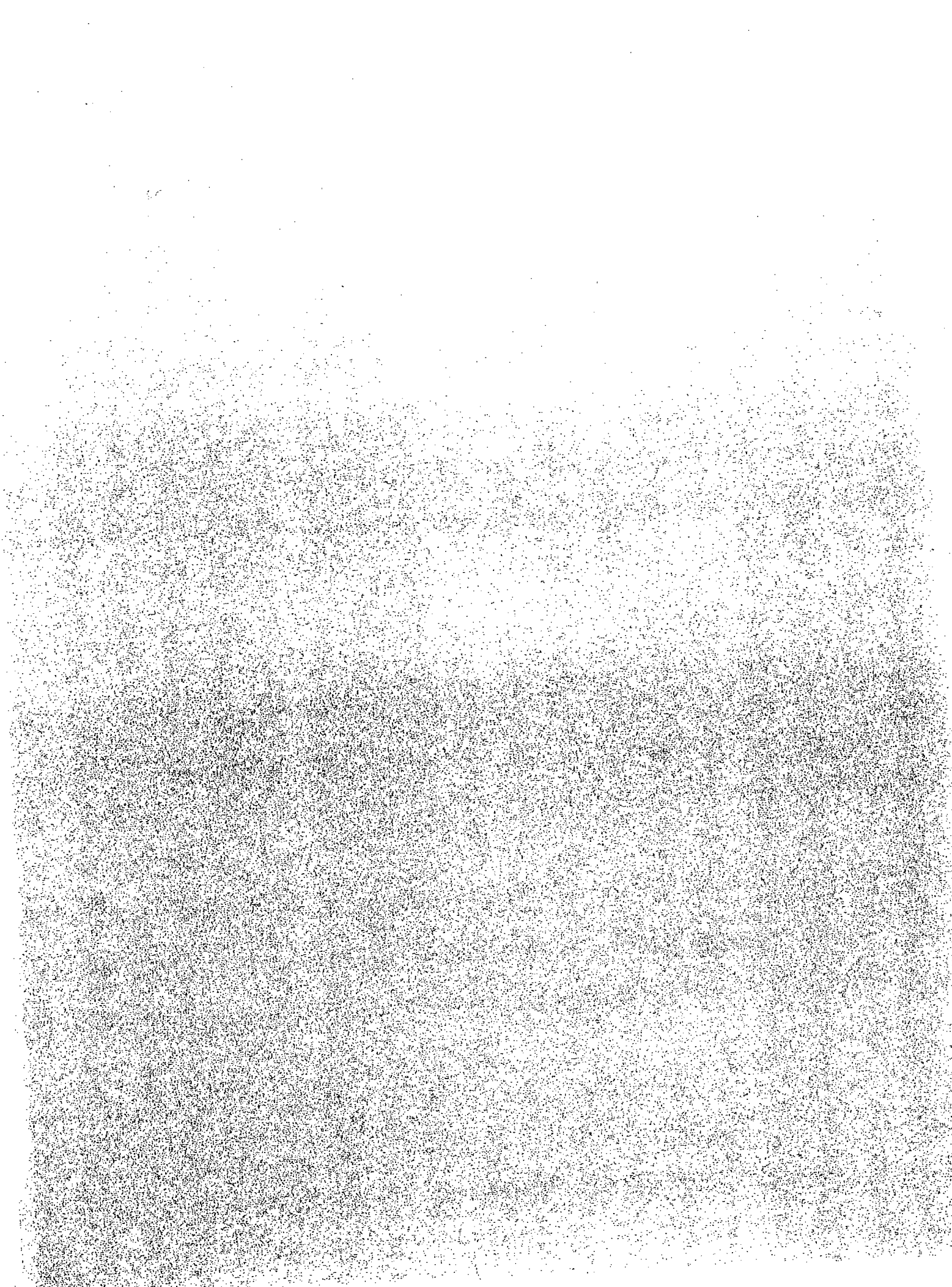

File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:107
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,428.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A2.44E4
A2.26E4
A6.62E3
A1.60E3
A5.91E3
A2.31E3
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:67
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A2.02E4
A2.13E4
A6.28E3
A821.86
A5.62E3
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:93
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,372.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A1.02E5
A5.60E4
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:147
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,588.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A2.43E5
A1.34E5
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55


File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:130
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,520.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366
INJ. TIME = 05:55
A5.66E5
A6.95E5
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:99
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,396.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366
INJ. TIME = 05:55
A5.65E5
A6.51E5
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:1431
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,5724.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366
INJ. TIME = 05:55
A5.78E5
A1.89E5
A1.52E5
A1.06E5
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:319
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366
INJ. TIME = 05:55
A1.56E5
A1.65E5
A4.02E4
A3.54E4
A1.31E4
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366
INJ. TIME = 05:55
35:20
35:28
35:34
35:45
35:52
36:00
36:13
36:31
Time


File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:43
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A1.67E4
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:50
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A1.90E4
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
35:12
36:13
37:14
37:45
38:49
39:31
40:23
41:22
41:56
42:35
43:15
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
35:46
36:34
37:40
39:18
40:02
40:54
42:09
43:01
44:05


File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:49
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,196.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A1.78E6
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:56
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,224.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A2.20E6
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:4666
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,18664.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A1.18E5
A1.84E5
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T Noise:1490
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,5960.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
A1.48E5
A5.19E4
File:T005823 #1-794 Acq:25-NOV-2000 05:53:21 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-DUP1 TLI#52366 INJ. TIME = 05:55
39:42 39:45 39:52 40:07
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time


Z
50
5
50
5
Channel I 330.9792 Peak top
Height .74 volts Span 200 ppm
System file name MORPHUS
Data file name A:TN25001
Resolution 10000
Group number 2
Ionization mode EI+
Switching VOLTAGE
Ref. masses 292.9825, 416.9760
A 293 J 331 S 368
B 304 K 332 T 370
C 306 L 334 U 376
D 316 M 340 V 410
E 318 N 342
F 320 O 352
G 322 P 354
H 328 Q 356
I 331 R 358
Ref. mass 416.9760 Peak top
Height .21 volts Span 200 ppm



TLI Project: **52366** Method 8290 PCDD/PCDF Analysis (
Client Sample: **BASF-FIELD BLANK** Analysis File: **T0058**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/2000**	Spike File:	**SPMIT32S**
TLI ID:	**274-99-6A**	Date Extracted:	**11/21/2000**	ICal:	**TF57140**
		Date Analyzed:	**11/25/2000**	ConCal:	**T005815**
Sample Size:	**1.060 L**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005817**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	ND	1.2				___
1,2,3,7,8-PeCDD	ND	0.8				___
1,2,3,4,7,8-HxCDD	ND	0.6				___
1,2,3,6,7,8-HxCDD	ND	0.6				___
1,2,3,7,8,9-HxCDD	ND	0.6				___
1,2,3,4,6,7,8-HpCDD	EMPC		0.68			J__
1,2,3,4,6,7,8,9-OCDD	EMPC		9.2			J__
2,3,7,8-TCDF	ND	0.8				___
1,2,3,7,8-PeCDF	EMPC		1.2			J__
2,3,4,7,8-PeCDF	ND	0.7				___
1,2,3,4,7,8-HxCDF	1.1			1.43	32:06	JB_
1,2,3,6,7,8-HxCDF	EMPC		0.24			J__
2,3,4,6,7,8-HxCDF	EMPC		0.92			JB_
1,2,3,7,8,9-HxCDF	ND	0.6				___
1,2,3,4,6,7,8-HpCDF	1.2			1.11	35:05	J__
1,2,3,4,7,8,9-HpCDF	EMPC		0.32			J__
1,2,3,4,6,7,8,9-OCDF	EMPC		2.8			JB_

Totals	Conc. (pg/L)	Number	DL	EMPC	Flags
Total TCDD	ND		1.2		___
Total PeCDD	ND		0.8		___
Total HxCDD	EMPC			1.9	___
Total HpCDD	EMPC			0.68	___
Total TCDF	ND		0.8		___
Total PeCDF	0.47	1		5.0	___
Total HxCDF	1.1	1		2.5	___
Total HpCDF	1.2	1		1.5	___

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TLI Project: 52366 Method 8290 PCDD/PCDF Analysis
Client Sample: **BASF-FIELD BLANK** Analysis File: **T0058**

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	1530	80.9	40%-130%	0.75	24:38	—
$^{13}C_{12}$-2,3,7,8-TCDD	1490	78.9	40%-130%	0.80	25:22	—
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1800	95.5	40%-130%	1.51	28:37	—
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2450	130	40%-130%	1.51	29:40	—
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1330	70.6	40%-130%	0.51	32:13	—
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1580	83.9	40%-130%	1.26	32:53	—
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1660	88.0	25%-130%	0.43	35:04	—
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1490	78.9	25%-130%	1.05	36:05	—
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	2220	58.9	25%-130%	0.83	39:40	—

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2140	113	40%-130%	1.48	29:20	—
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1370	72.9	40%-130%	0.50	32:07	—
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1470	77.8	40%-130%	1.16	32:48	—
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1670	88.3	25%-130%	0.41	36:34	—

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	158	83.8	40%-130%	25:23	—

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1930	102	40%-130%	0.51	33:26	—
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1600	84.9	40%-130%	0.51	32:41	—

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.82	25:10	—
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.20	33:12	—

Data Reviewer: _____ 11/25/2000

MIT3_PSR v1.00, LARS 6.

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Chromatographic Calculations For File:T005824

QC Front End.....: 0.6764
Tetra/Hexa RS Ratio: 0.5518

Initial ....Date...

Data Review By: _____ ___/___/___

Calculated Noise Height: 0.01

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 T005824B.dbf
11/25/2000 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				0.860-1.077			
304-306	DC	NL				Height	0.07	0.04	0.03				
	DC	SN		24:28		0.86	0.13			0.993			
304-306			0 Peaks				0.00						
13C12-TCDF						0.65-0.89				0.959-1.041			
316-318	DC	NL				Height	0.06	0.03	0.03				
				24:14		0.88	0.92	0.43	0.49	0.984			
				24:38		0.75	200.16	85.83	114.33	1.000	13C12-2378-TCDF	IS0	
						Height	55.77	24.31	31.46				
				25:04	RO	0.58	1.06	0.46	0.80	1.018			
316-318			3 Peaks				202.14						

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

TCDD						0.65-0.89				0.890-1.045			
320-322	DC	NL				Height	0.06	0.03	0.03				
320-322			0 Peaks				0.00						
37Cl-TCDD										0.921-1.079			
328	DC	NL				Height	0.04	0.04					
				23:46			0.05	0.05		0.937			
				23:51			0.06	0.06		0.940			
				23:58			0.11	0.11		0.945			
				24:44			0.04	0.04		0.975			
				24:55			0.08	0.08		0.982			
				25:00			0.09	0.09		0.986			
				25:23			14.38	14.38		1.001	37Cl-TCDD		CLS
				25:48			0.03	0.03		1.017			
				25:56			0.06	0.06		1.022			
				26:07			0.19	0.19		1.030			
	DC	SN		26:41			0.03			1.052			
				26:52			0.09	0.09		1.059			
328			11 Peaks				15.18						
13C12-TCDD						0.65-0.89				0.921-1.079			
332-334	DC	NL				Height	0.08	0.05	0.03				
				24:09	RO	1.23	0.23	0.16	0.13	0.952			
				25:10		0.82	192.89	86.69	106.20	0.992	13C12-1234-TCDD	RS1	
				25:22		0.80	160.03	71.07	88.96	1.000	13C12-2378-TCDD	IS1	
						Height	42.87	19.62	23.25				
				25:46	RO	1.08	0.64	0.39	0.36	1.016			
				26:19		0.71	0.29	0.12	0.17	1.037			
332-334			5 Peaks				354.08						

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				0.923-1.064			
340-342	DC	NL				Height	0.06	0.03	0.03				
				28:40	RO	0.89	0.13	0.08	0.09	1.002	12378-PeCDF	AN	J
				29:05	RO	0.33	0.10	0.06	0.18	1.016			J
				29:10		1.50	0.05	0.03	0.02	1.019			J
				29:21	RO	1.00	0.26	0.10	0.10	1.026			J
340-342			4	Peaks			0.54						
13C12-PeCDF						1.32-1.78				0.860-1.140			
352-354	DC	NL				Height	0.06	0.03	0.03				
				28:37		1.51	220.94	133.04	87.90	1.000	13C12-PeCDF 123	IS2	
						Height	70.20	42.05	28.15				
				28:56		1.45	2.03	1.20	0.83	1.011			
				29:20		1.48	259.29	154.90	104.39	1.025	13C12-PeCDF 234	SUR1	
				30:20		1.58	2.63	1.61	1.02	1.060			
352-354			4	Peaks			484.89						
---------- Above: PeCDF / PeCDD Follows ----------													
PeCDD						1.32-1.78				0.933-1.021			
356-358	DC	NL				Height	0.06	0.03	0.03				
	DC	SN		27:46	RO	2.00	0.15			0.936			
	DC	SN		28:51		1.50	0.10			0.972			
	DC	WH		30:26	RO	1.00	0.20			1.026			
356-358			0	Peaks			0.00						
13C12-PeCDD						1.32-1.78				0.865-1.135			
368-370	DC	NL				Height	0.06	0.03	0.03				
				28:35	RO	0.85	0.67	0.41	0.48	0.963			
				28:45	RO	0.77	0.44	0.27	0.35	0.969			
				29:40		1.51	171.13	102.90	68.23	1.000	13C12-PeCDD 123	IS3	
						Height	56.98	34.26	22.72				
				30:10	RO	1.23	0.33	0.16	0.13	1.017			
368-370			4	Peaks			172.57						
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF						1.05-1.43				0.961-1.046			
374-376	DC	NL				Height	0.06	0.03	0.03				
				32:06		1.43	0.17	0.10	0.07	0.996	123478-HxCDF	AN	J
				32:15	RO	6.50	0.04	0.13	0.02	1.001	123678-HxCDF	AN	J
	DC	SN		32:28		1.33	0.07			1.008			
	DC	SN		32:29	RO	0.20	0.02			1.008			
				32:36	RO	0.67	0.04	0.02	0.03	1.012			J
				32:42	RO	0.73	0.14	0.08	0.11	1.015	234678-HxCDF	AN	J
	DC	SN		32:54	RO	2.50	0.04			1.021			
	DC	SN		32:57	RO	2.50	0.04			1.023			
	DC	WH		33:44	RO	1.00	0.07			1.047			
374-376			4	Peaks			0.39						

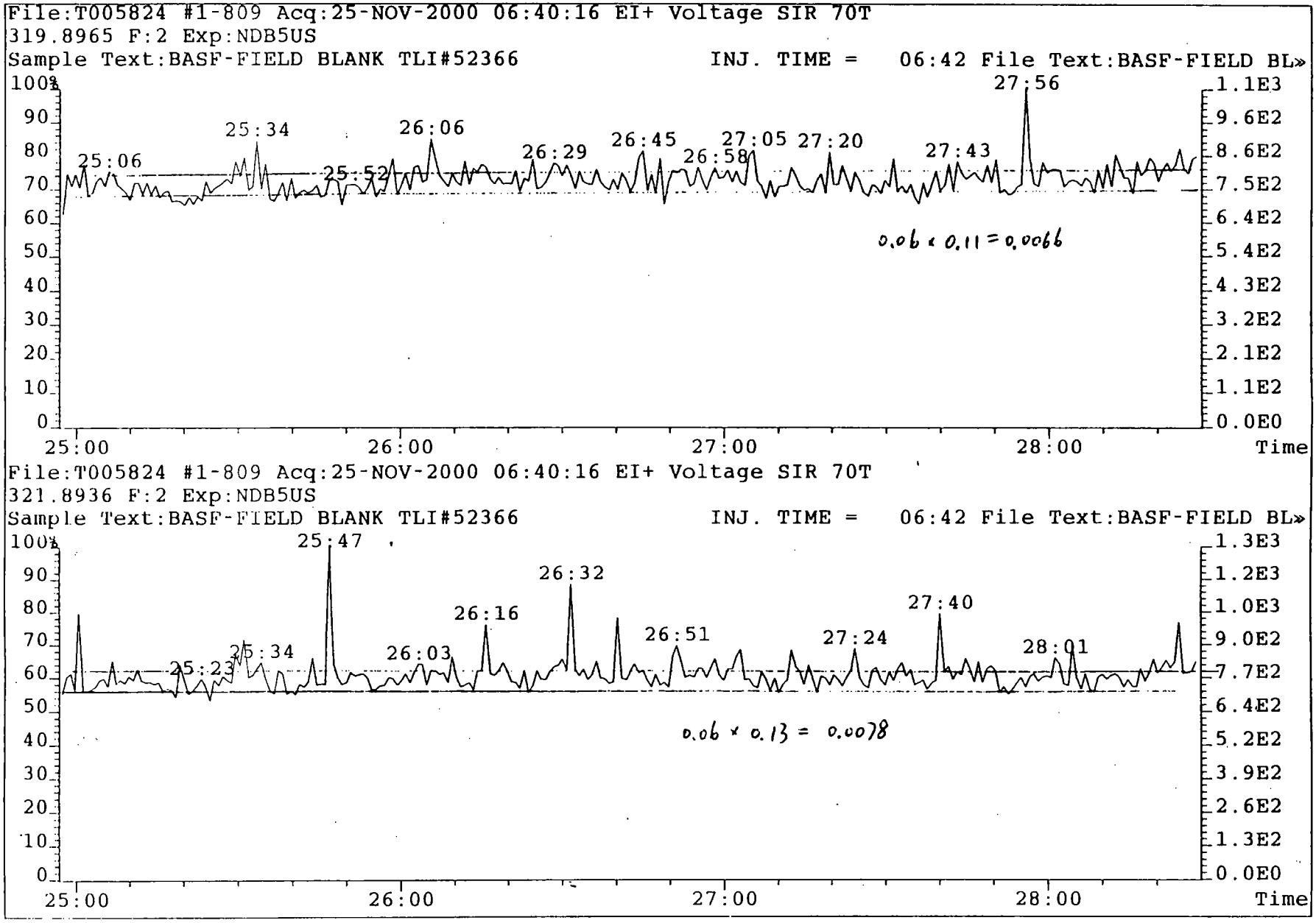
Compound/ M_z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
13C12-HxCDF						0.43-0.59			0.876-1.124				
384-386	DC	NL				Height	0.06	0.03	0.03				
				31:09		0.49	0.76	0.25	0.51	0.967			
				31:17		0.53	0.58	0.20	0.38	0.971			
				32:07		0.50	299.87	100.61	199.26	0.997	13C12-HxCDF 478	SUR2	
				32:13		0.51	294.85	99.65	195.20	1.000	13C12-HxCDF 678	IS4	
						Height	100.12	34.15	65.97				
				32:26		0.54	0.37	0.13	0.24	1.007			
				32:31	RO	0.69	0.80	0.27	0.39	1.009			
				32:41		0.51	323.64	108.90	214.74	1.014	13C12-HxCDF 234	ALT2	
				33:04	RO	0.78	0.41	0.14	0.18	1.026			
				33:11	RO	0.41	0.21	0.07	0.17	1.030			
				33:26		0.51	286.81	96.26	190.55	1.038	13C12-HxCDF 789	ALT1	
				33:43	RO	0.21	0.21	0.07	0.33	1.047			
384-386			11 Peaks				1,208.51						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD						1.05-1.43			0.956-1.013				
390-392	DC	NL				Height	0.05	0.02	0.03				
	DC	SN		31:34	RO	9.00	0.02			0.960			
	DC	SN		31:39	RO	1.00	0.07			0.962			
	DC	SN		31:41	RO	0.75	0.05			0.964			
				31:47	RO	0.75	0.05	0.03	0.04	0.967			J
	DC	SN		32:32	RO	2.00	0.04			0.989			
				32:41	RO	1.88	0.18	0.15	0.08	0.994			J
	DC	WH		33:26	RO	4.00	0.07			1.017			
	DC	WH		33:39	RO	1.00	0.07			1.023			
390-392			2 Peaks				0.23						
13C12-HxCDD						1.05-1.43			0.970-1.030				
402-404	DC	NL				Height	0.09	0.06	0.03				
				32:17		1.22	0.91	0.50	0.41	0.982			
				32:48		1.16	210.39	113.14	97.25	0.997	13C12-HxCDD 478	SUR3	
				32:53		1.26	219.19	122.06	97.13	1.000	13C12-HxCDD 678	IS5	
						Height	74.55	40.86	33.69				
				33:12		1.20	287.71	157.10	130.61	1.010	13C12-HxCDD 789	RS2	
402-404			4 Peaks				718.20						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF						0.88-1.20			0.995-1.048				
408-410	DC	NL				Height	0.07	0.04	0.03				
				35:05		1.11	0.19	0.10	0.09	1.000	1234678-HpCDF	AN	J
	DC	SN		36:31	RO	0.63	0.10			1.041			
				36:35	RO	0.33	0.04	0.02	0.06	1.043	1234789-HpCDF	AN	J
	DC	WH		37:01	RO	1.75	0.08			1.056			
408-410			2 Peaks				0.23						
13C12-HpCDF						0.37-0.51			0.943-1.114				
418-420	DC	NL				Height	0.09	0.05	0.04				
				35:04		0.43	245.50	73.36	172.14	1.000	13C12-HpCDF 678	IS6	
						Height	73.47	22.28	51.19				

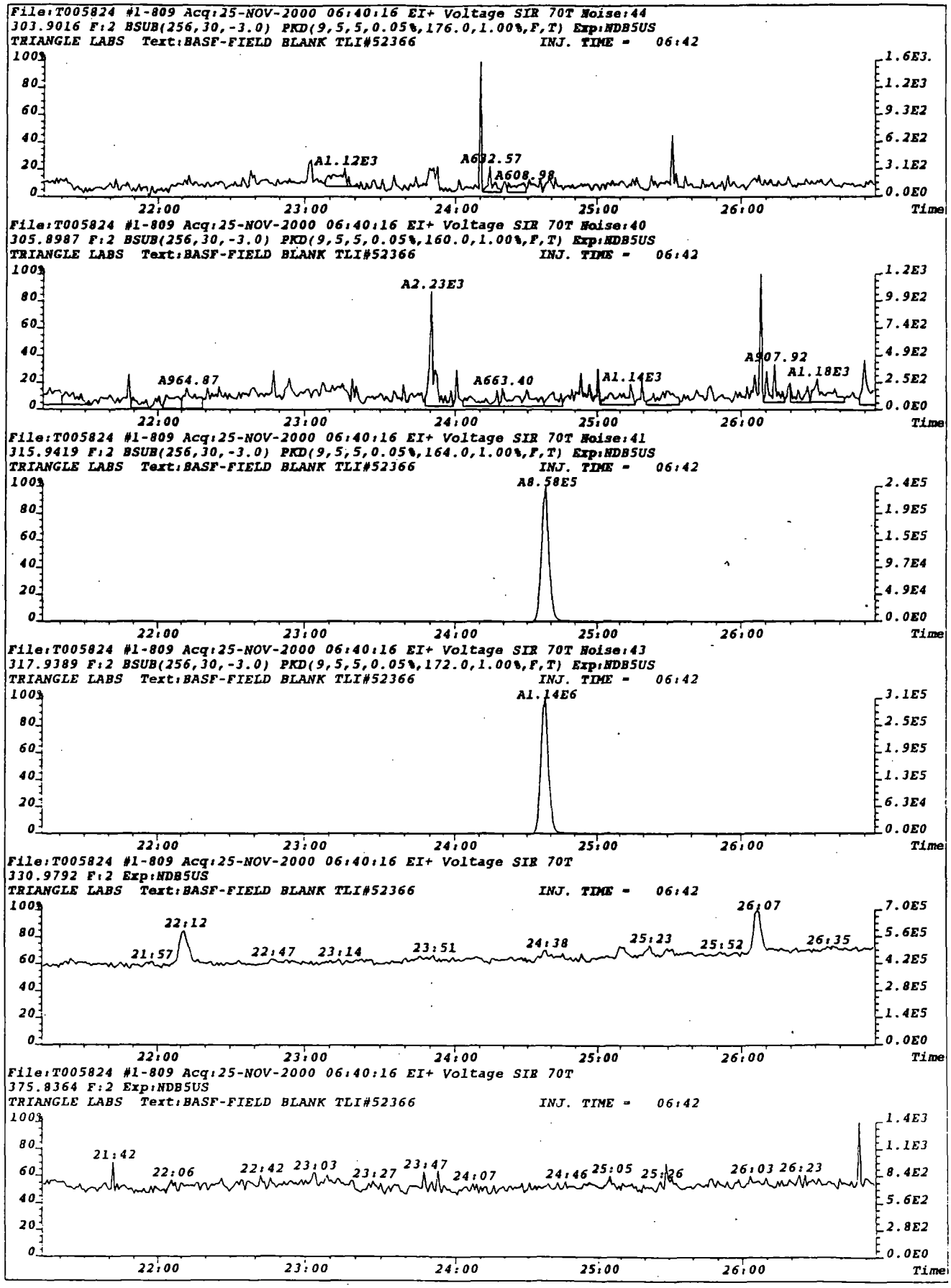
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				35:22	RO	0.79	0.62	0.19	0.24	1.009			
				36:34		0.41	191.78	56.19	135.59	1.043	13C12-HpCDF 789	SUR4	
418-420			3 Peaks				437.90						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD						0.88-1.20				0.974-1.005			
424-426	DC	NL				Height	0.06	0.03	0.03				
				36:07	RO	0.20	0.06	0.03	0.15	1.001	1234678-HpCDD	AN	J
	DC	WH		36:20	RO	2.50	0.04			1.007			
424-426			1 Peak				0.06						
13C12-HpCDD						0.88-1.20				0.972-1.028			
436-438	DC	NL				Height	0.12	0.07	0.05				
				35:11	RO	3.75	0.24	0.45	0.12	0.975			
				35:20	RO	1.79	0.29	0.25	0.14	0.979			
				36:05		1.05	194.80	99.76	95.04	1.000	13C12-HpCDD 678	IS7	
						Height	54.75	28.37	26.38				
				36:32	RO	1.63	0.82	0.65	0.40	1.012			
436-438			4 Peaks				196.15						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF						0.76-1.02				0.899-1.101			
442-444	DC	NL				Height	0.06	0.03	0.03				
	DC	SN		39:26	RO	0.36	0.08			0.994			
				39:50	RO	1.60	0.19	0.16	0.10	1.004	OCDF	AN	J
	DC	WH		44:14	RO	1.80	0.09			1.115			
442-444			1 Peak				0.19						
OCDD						0.76-1.02				0.899-1.101			
458-460	DC	NL				Height	0.06	0.03	0.03				
				39:40	RO	0.68	0.53	0.25	0.37	1.000	OCDD	AN	J
	DC	SN		39:49	RO	0.38	0.06			1.004			
458-460			1 Peak				0.53						
13C12-OCDD						0.76-1.02				0.996-1.004			
470-472	DC	NL				Height	0.13	0.09	0.04				
				39:40		0.83	236.60	107.10	129.50	1.000	13C12-OCDD	IS8	
						Height	56.82	25.72	31.10				
	DC	WH		39:58	RO	0.62	0.62			1.008			
470-472			1 Peak				236.60						

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.

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:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
319.8965 F:2 Exp:NDB5US
Sample Text:BASF-FIELD BLANK TLI#52366
INJ. TIME = 06:42 File Text:BASF-FIELD BL»
25:06
25:34
25:52
26:06
26:29
26:45
26:58
27:05
27:20
27:43
27:56
0.06 × 0.11 = 0.0066
25:00
26:00
27:00
28:00
Time
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
321.8936 F:2 Exp:NDB5US
Sample Text:BASF-FIELD BLANK TLI#52366
INJ. TIME = 06:42 File Text:BASF-FIELD BL»
25:23
25:34
25:47
26:03
26:16
26:32
26:51
27:24
27:40
28:01
0.06 × 0.13 = 0.0078
25:00
26:00
27:00
28:00
Time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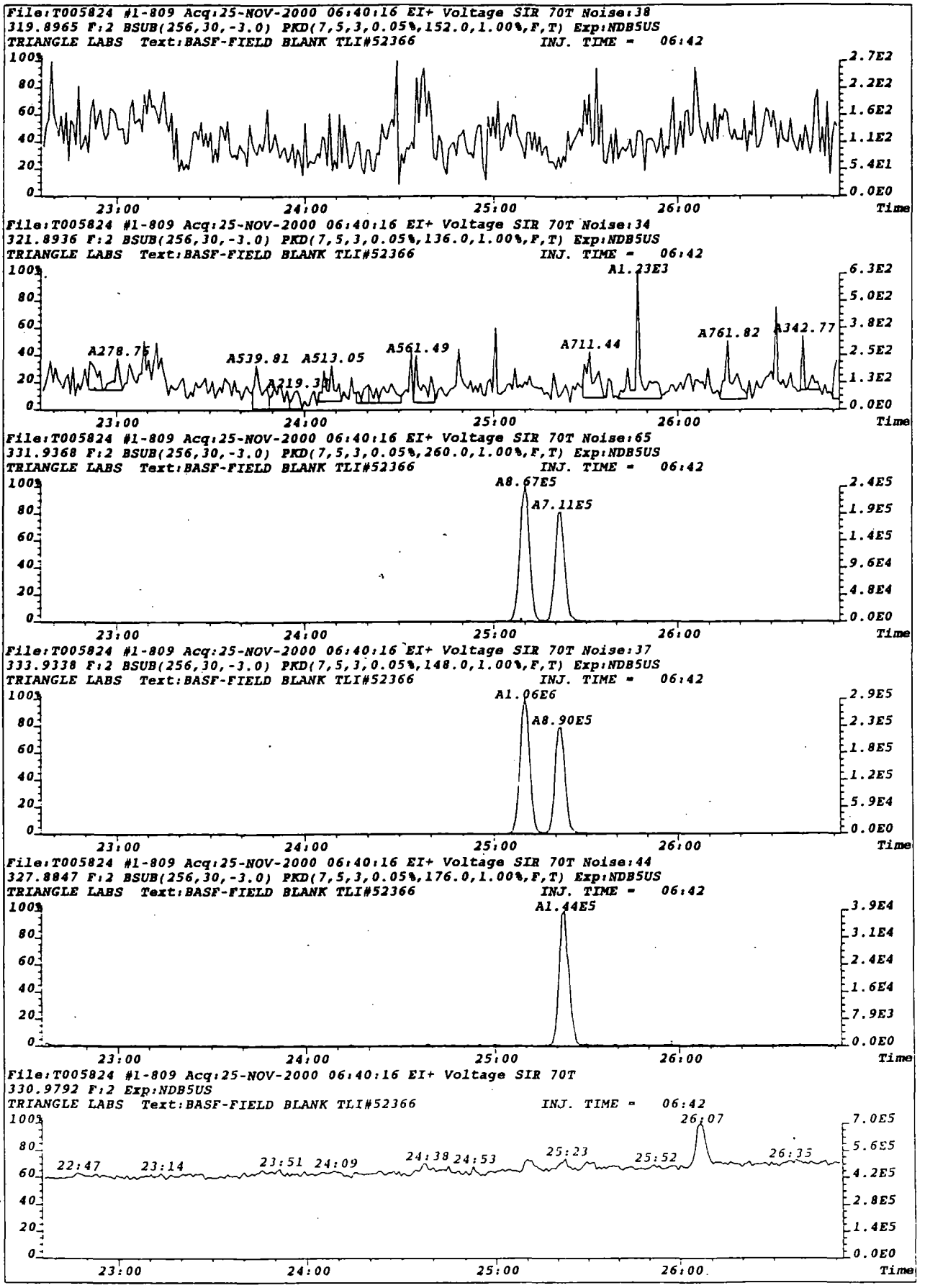
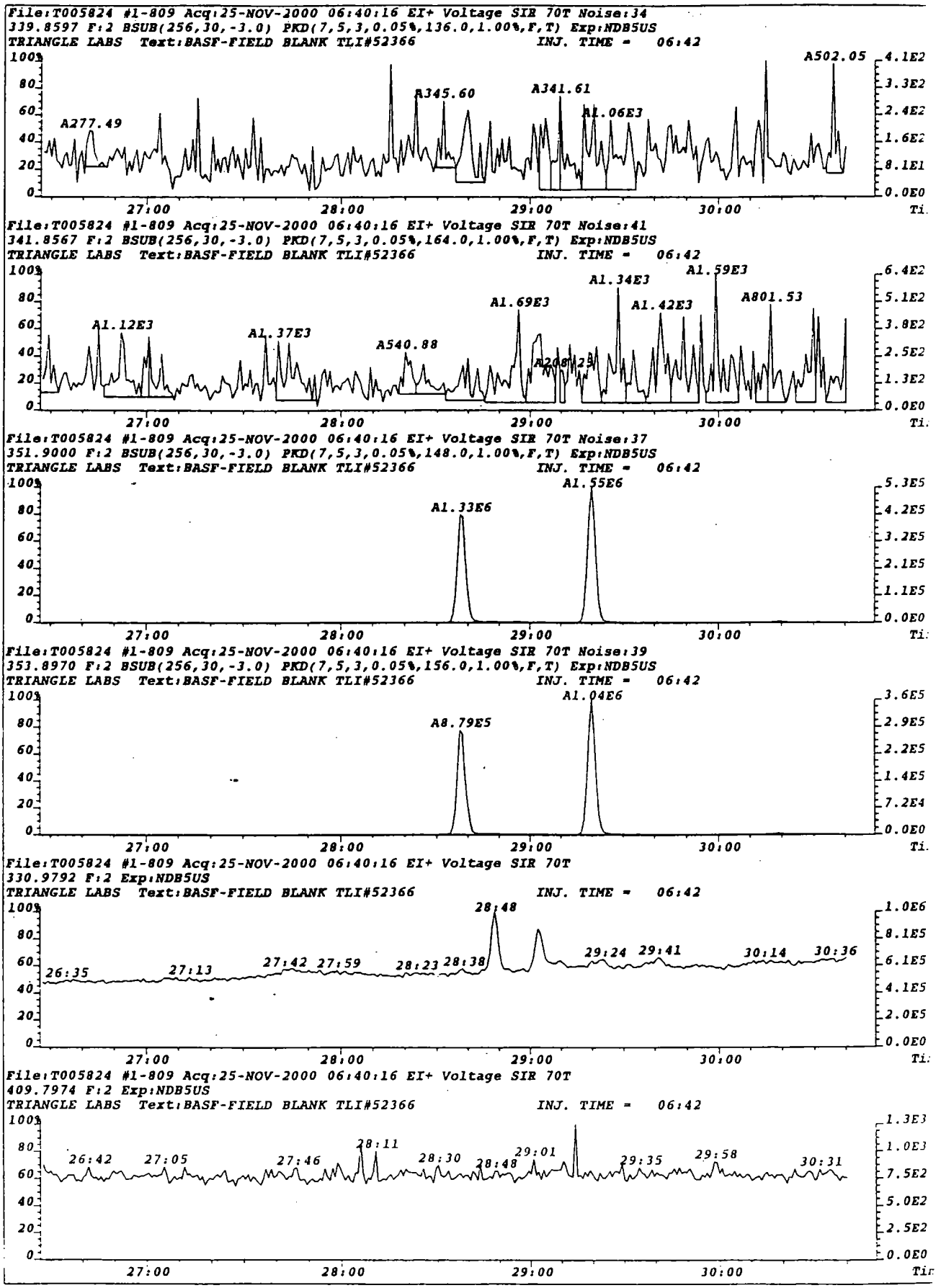
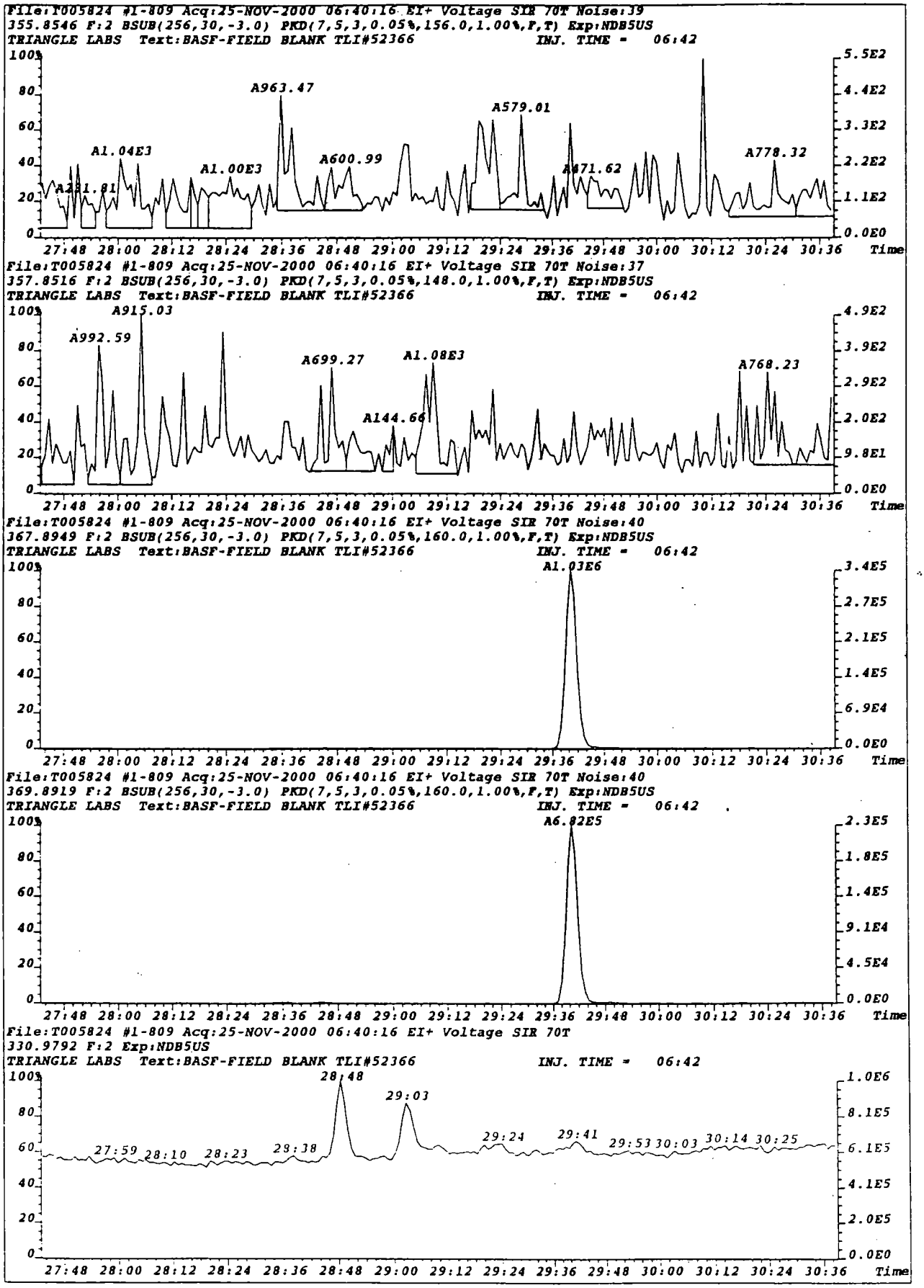
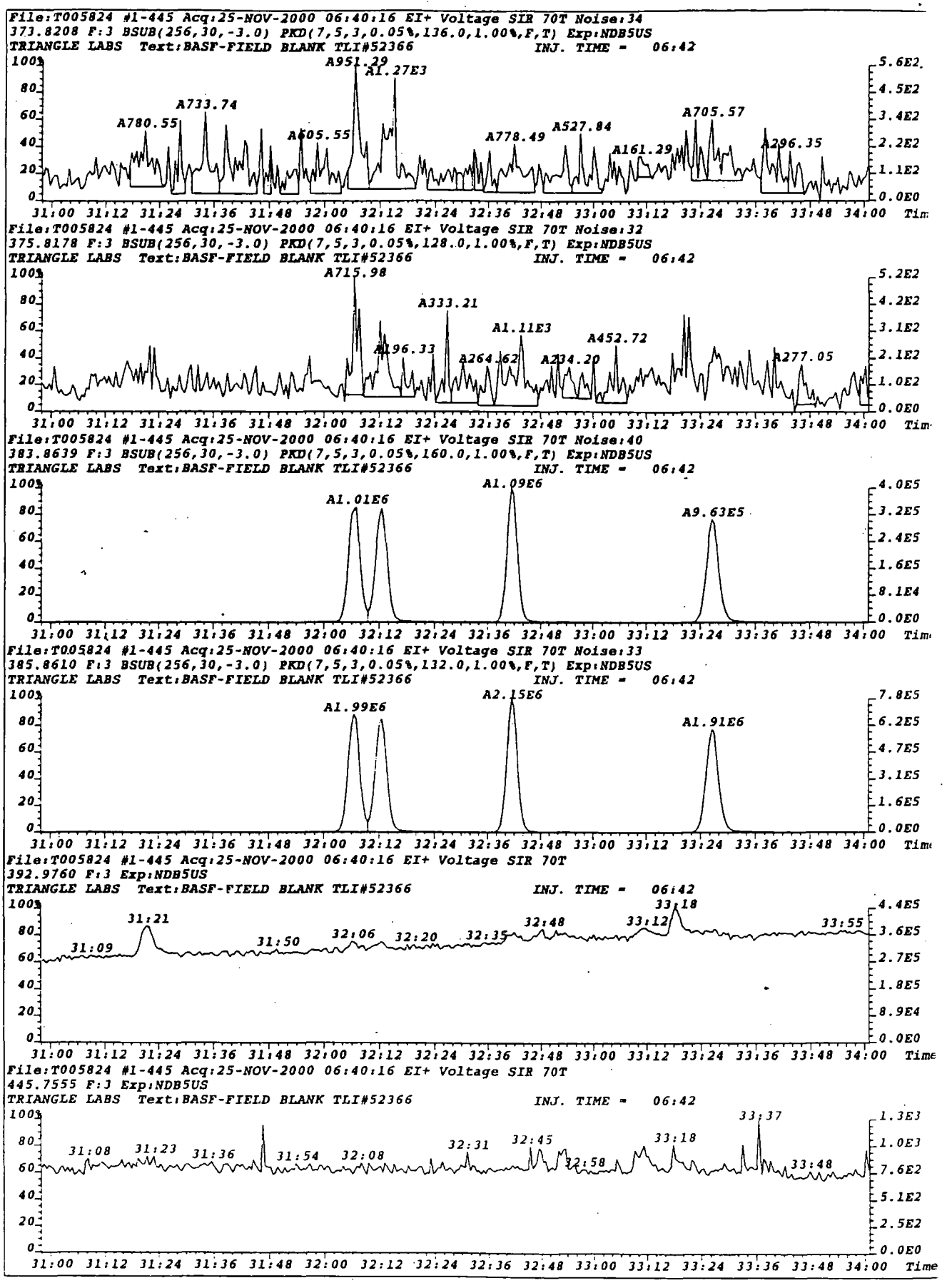
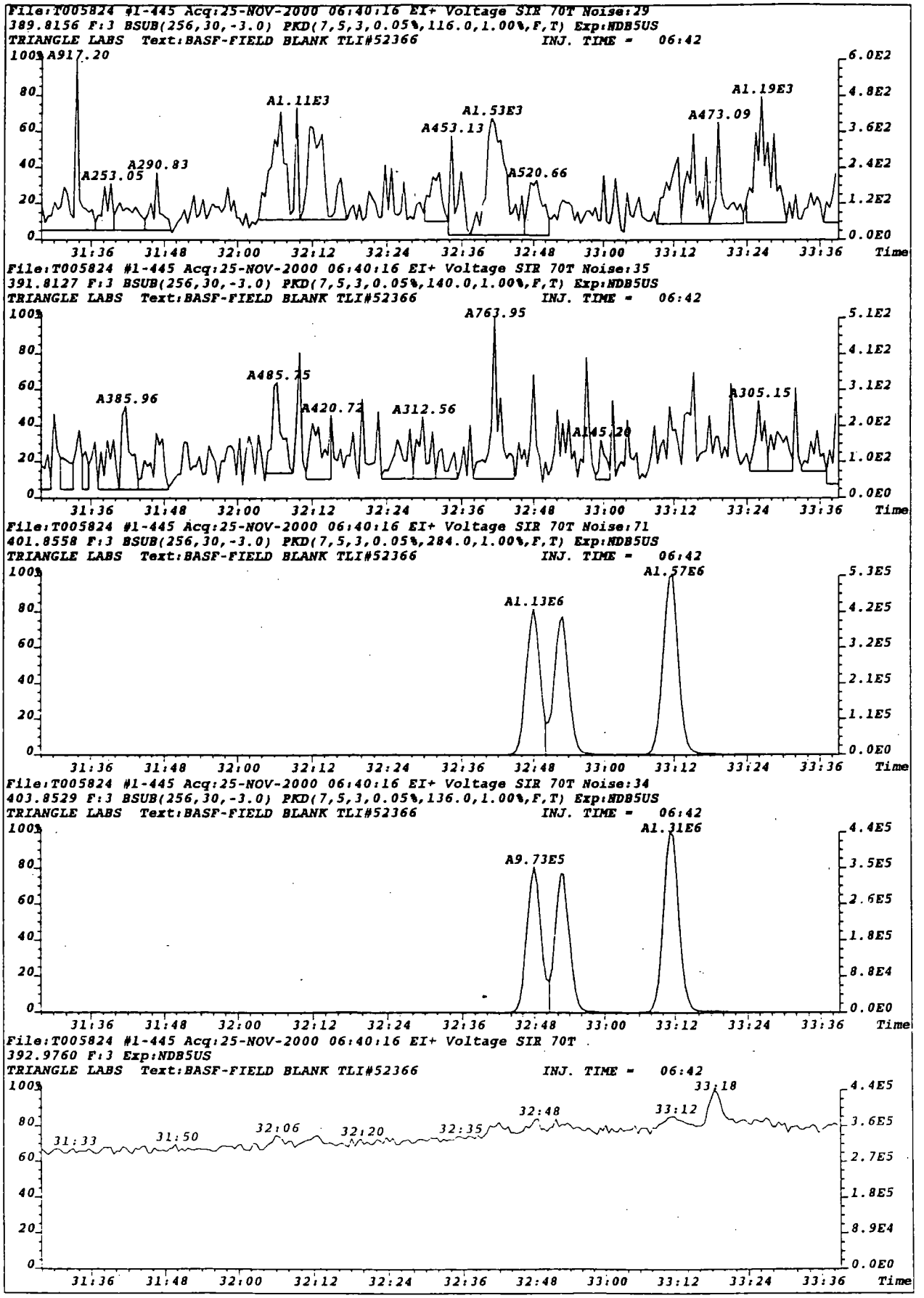
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,176.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A1.12E3
A632.57
A608.98
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:40
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A2.23E3
A964.87
A663.40
A1.14E3
A907.92
A1.18E3
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:41
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,164.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A8.58E5
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:43
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A1.14E6
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
21:57
22:12
22:47
23:14
23:51
24:38
25:23
25:52
26:07
26:35
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
21:42
22:06
22:42
23:03
23:27
23:47
24:07
24:46
25:05
25:26
26:03
26:23
22:00
23:00
24:00
25:00
26:00
Time

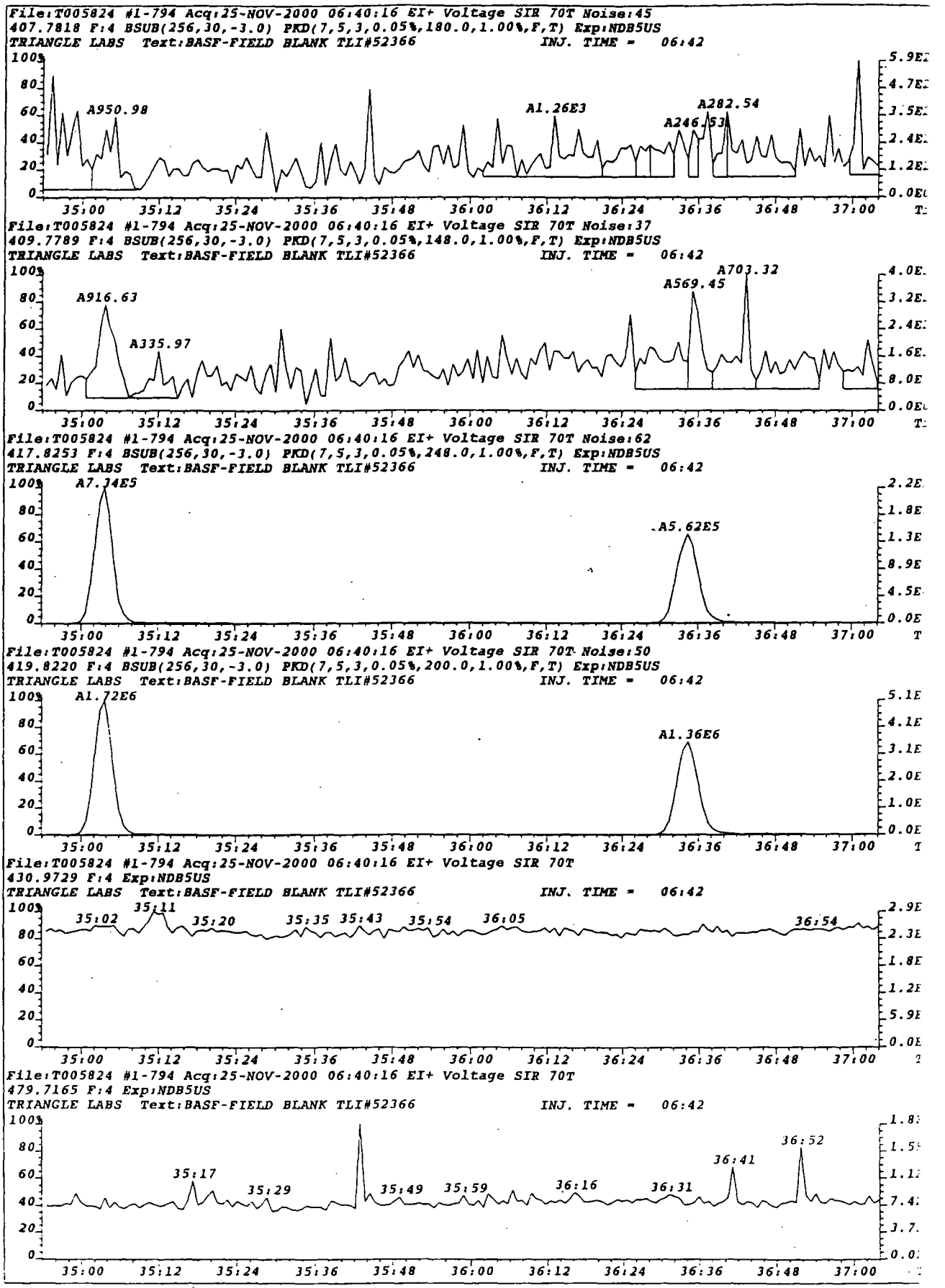

File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:38
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,152.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
100 80 60 40 20 0
2.7E2 2.2E2 1.6E2 1.1E2 5.4E1 0.0E0
23:00 24:00 25:00 26:00 Time
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:34
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,136.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A1.23E3
A278.75
A539.81 A513.05
A561.49
A711.44
A761.82
A342.77
6.3E2 5.0E2 3.8E2 2.5E2 1.3E2 0.0E0
23:00 24:00 25:00 26:00 Time
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:65
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A8.67E5
A7.11E5
2.4E5 1.9E5 1.4E5 9.6E4 4.8E4 0.0E0
23:00 24:00 25:00 26:00 Time
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:37
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A1.06E6
A8.90E5
2.9E5 2.3E5 1.8E5 1.2E5 5.9E4 0.0E0
23:00 24:00 25:00 26:00 Time
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:44
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,176.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A1.44E5
3.9E4 3.1E4 2.4E4 1.6E4 7.9E3 0.0E0
23:00 24:00 25:00 26:00 Time
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
26:07
22:47 23:14 23:51 24:09 24:38 24:53 25:23 25:52 26:35
7.0E5 5.6E5 4.2E5 2.8E5 1.4E5 0.0E0
23:00 24:00 25:00 26:00 Time

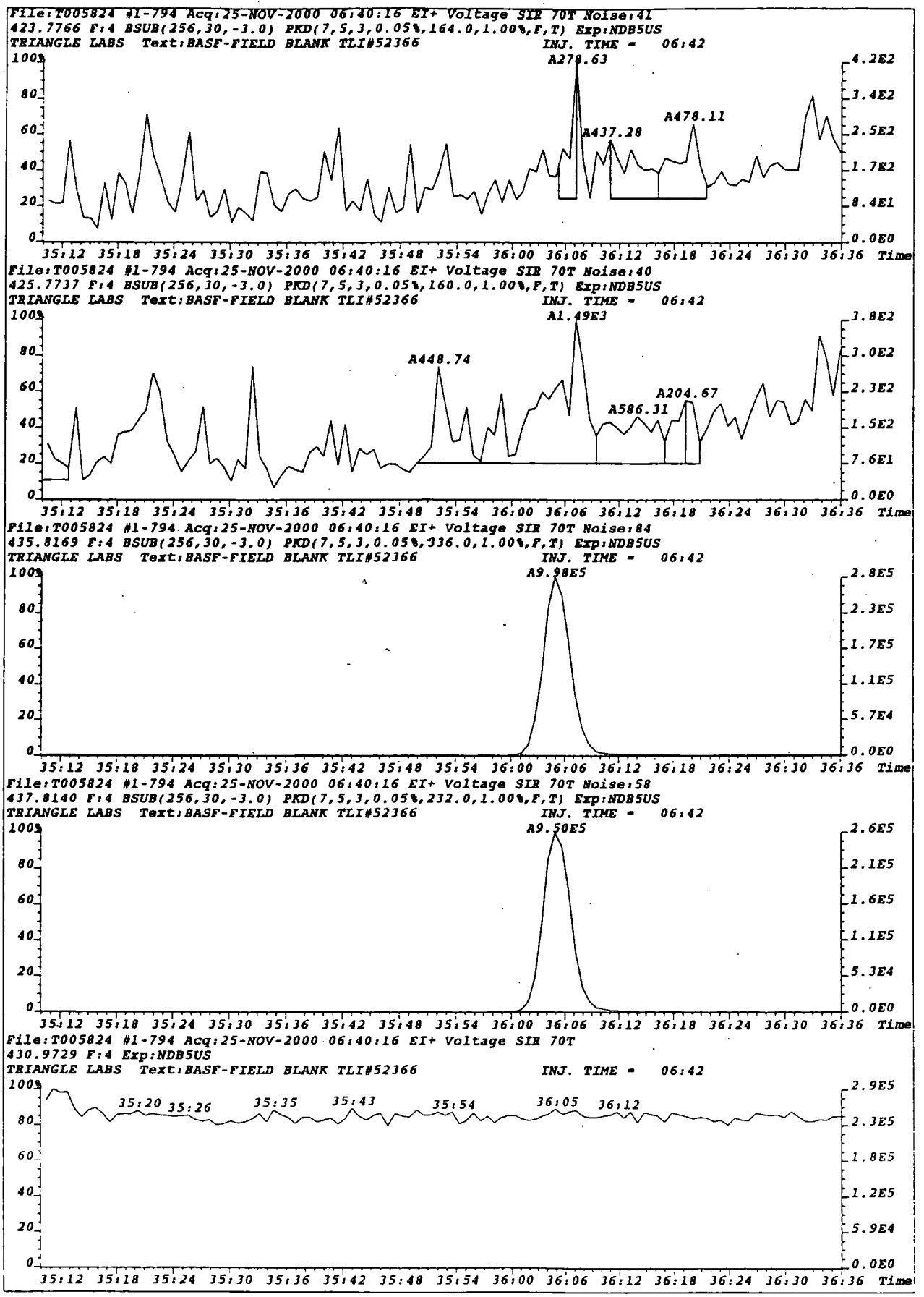

File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:34
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,136.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A277.49
A345.60
A341.61
A1.06E3
A502.05
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:41
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,164.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A1.12E3
A1.37E3
A540.88
A1.69E3
A1.34E3
A1.42E3
A1.59E3
A801.53
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:37
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A1.33E6
A1.55E6
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:39
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A8.79E5
A1.04E6
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
26:35
27:13
27:42
27:59
28:23
28:38
28:48
29:24
29:41
30:14
30:36
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
26:42
27:05
27:46
28:11
28:30
28:48
29:01
29:35
29:58
30:31
27:00
28:00
29:00
30:00

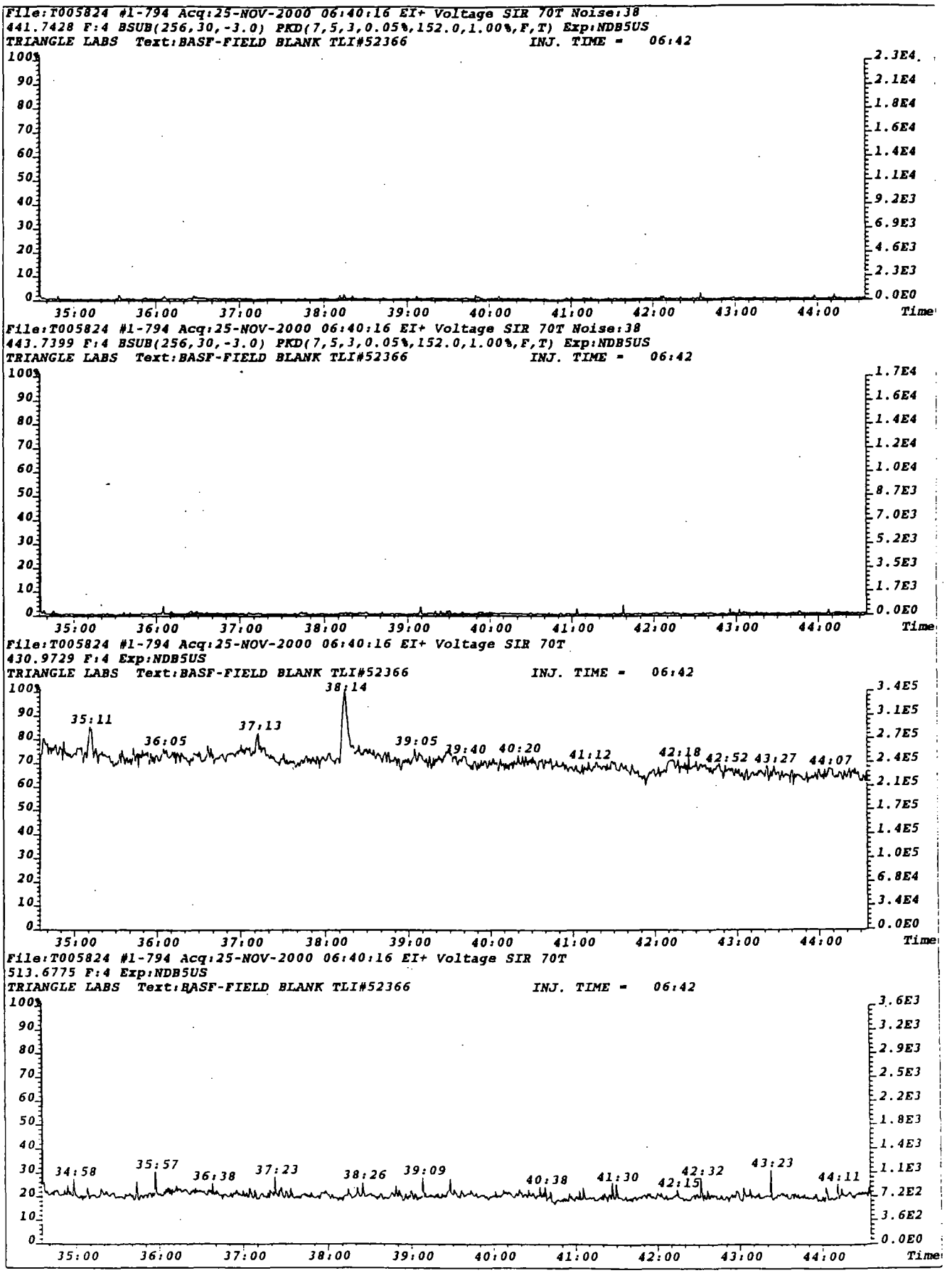

File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:39
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A963.47
A579.01
A1.04E3
A1.00E3
A600.99
A671.62
A778.32
A231.81
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:37
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A915.03
A992.59
A699.27
A1.08E3
A768.23
A144.66
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:40
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A1.03E6
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:40
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A6.82E5
File:T005824 #1-809 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
28:48
29:03
27:59
28:10
28:23
29:38
29:24
29:41
29:53
30:03
30:14
30:25
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 Time

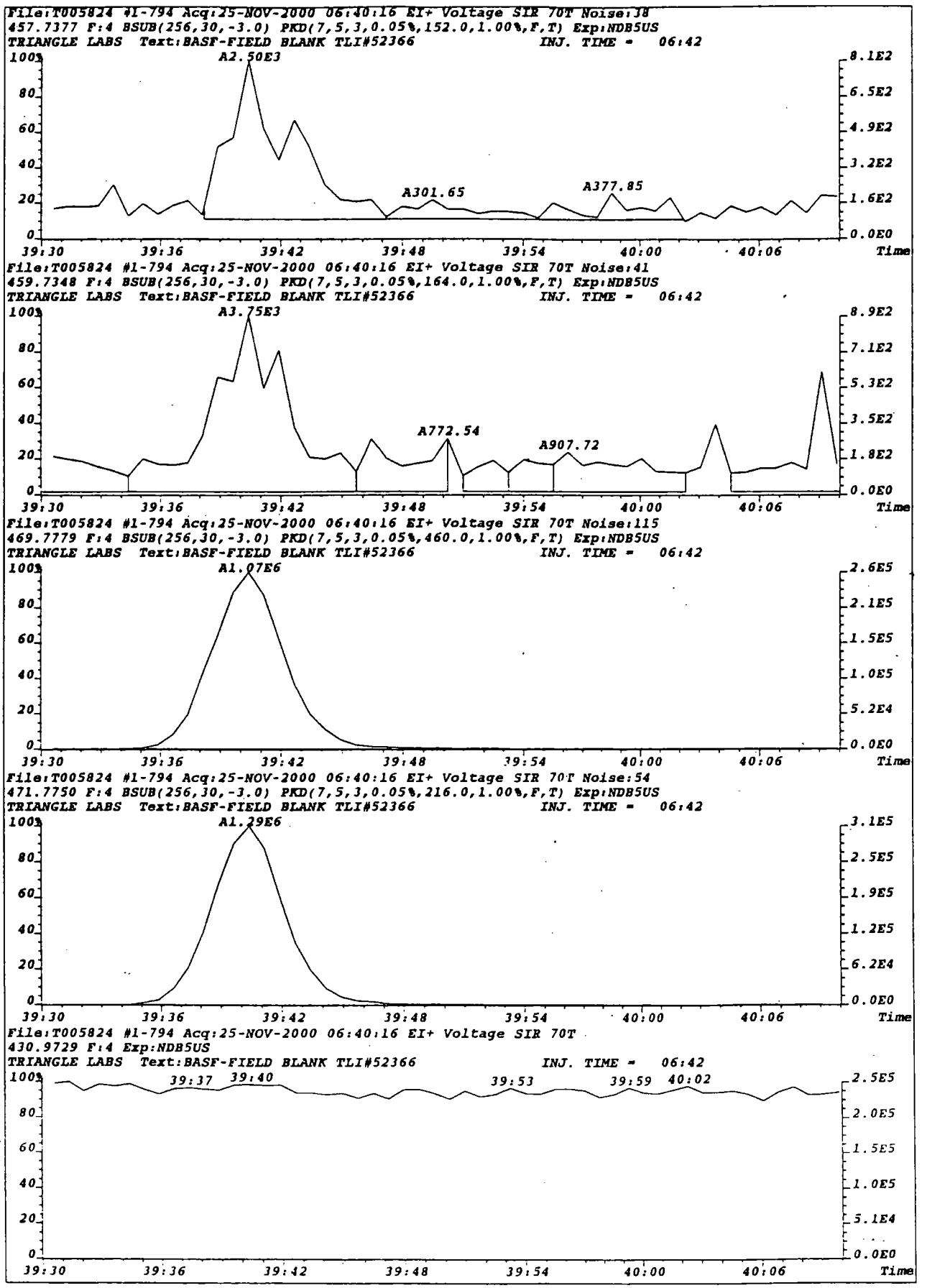

File:T005824 #1-445 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:34
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,136.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A951.29
A1.27E3
A733.74
A780.55
A605.55
A778.49
A527.84
A705.57
A161.29
A296.35
File:T005824 #1-445 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:32
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,128.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A715.98
A333.21
A1.11E3
A452.72
A196.33
A264.62
A234.20
A277.05
File:T005824 #1-445 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:40
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A1.01E6
A1.09E6
A9.63E5
File:T005824 #1-445 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:33
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,132.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A1.99E6
A2.15E6
A1.91E6
File:T005824 #1-445 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
31:09
31:21
31:50
32:06
32:20
32:35
32:48
33:12
33:18
33:55
File:T005824 #1-445 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
31:08
31:23
31:36
31:54
32:08
32:31
32:45
32:58
33:18
33:37
33:48


File:T005824 #1-445 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:29
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,116.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A917.20
A1.11E3
A1.53E3
A1.19E3
A453.13
A473.09
A253.05
A290.83
A520.66
File:T005824 #1-445 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:35
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,140.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A763.95
A485.75
A385.96
A420.72
A312.56
A305.15
A145.20
File:T005824 #1-445 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:71
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,284.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A1.57E6
A1.13E6
File:T005824 #1-445 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:34
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,136.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A1.31E6
A9.73E5
File:T005824 #1-445 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
33:18
32:48
33:12
31:33
31:50
32:06
32:20
32:35
31:36
31:48
32:00
32:12
32:24
32:36
32:48
33:00
33:12
33:24
33:36
Time


File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:45
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,180.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A950.98
A1.26E3
A282.54
A246.53
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:37
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A916.63
A335.97
A703.32
A569.45
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:62
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,248.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A7.74E5
A5.62E5
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:50
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A1.72E6
A1.36E6
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
35:02
35:11
35:20
35:35
35:43
35:54
36:05
36:54
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
35:17
35:29
35:49
35:59
36:16
36:31
36:41
36:52
35:00
35:12
35:24
35:36
35:48
36:00
36:12
36:24
36:36
36:48
37:00


File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:41
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,164.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366
INJ. TIME = 06:42
A278.63
A437.28
A478.11
100%
80
60
40
20
0
4.2E2
3.4E2
2.5E2
1.7E2
8.4E1
0.0E0
35:12 35:18 35:24 35:30 35:36 35:42 35:48 35:54 36:00 36:06 36:12 36:18 36:24 36:30 36:36 Time
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:40
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366
INJ. TIME = 06:42
A1.49E3
A448.74
A204.67
A586.31
100%
80
60
40
20
0
3.8E2
3.0E2
2.3E2
1.5E2
7.6E1
0.0E0
35:12 35:18 35:24 35:30 35:36 35:42 35:48 35:54 36:00 36:06 36:12 36:18 36:24 36:30 36:36 Time
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:84
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,136.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366
INJ. TIME = 06:42
A9.98E5
100%
80
60
40
20
0
2.8E5
2.3E5
1.7E5
1.1E5
5.7E4
0.0E0
35:12 35:18 35:24 35:30 35:36 35:42 35:48 35:54 36:00 36:06 36:12 36:18 36:24 36:30 36:36 Time
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:58
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366
INJ. TIME = 06:42
A9.50E5
100%
80
60
40
20
0
2.6E5
2.1E5
1.6E5
1.1E5
5.3E4
0.0E0
35:12 35:18 35:24 35:30 35:36 35:42 35:48 35:54 36:00 36:06 36:12 36:18 36:24 36:30 36:36 Time
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366
INJ. TIME = 06:42
35:20
35:26
35:35
35:43
35:54
36:05
36:12
100%
80
60
40
20
0
2.9E5
2.3E5
1.8E5
1.2E5
5.9E4
0.0E0
35:12 35:18 35:24 35:30 35:36 35:42 35:48 35:54 36:00 36:06 36:12 36:18 36:24 36:30 36:36 Time


File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:38
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,152.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:38
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,152.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
35:11
36:05
37:13
38:14
39:05
39:40
40:20
41:12
42:18
42:52
43:27
44:07
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
34:58
35:57
36:38
37:23
38:26
39:09
40:38
41:30
42:15
42:32
43:23
44:11
35:00
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
Time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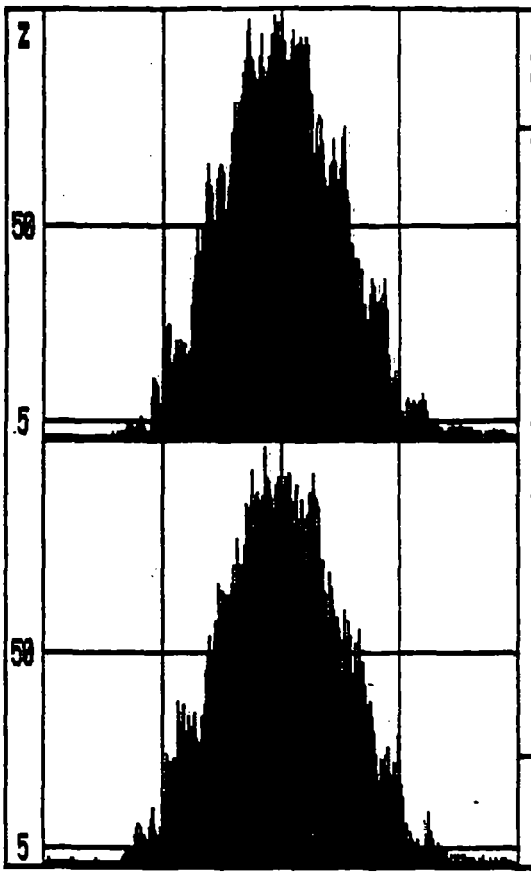
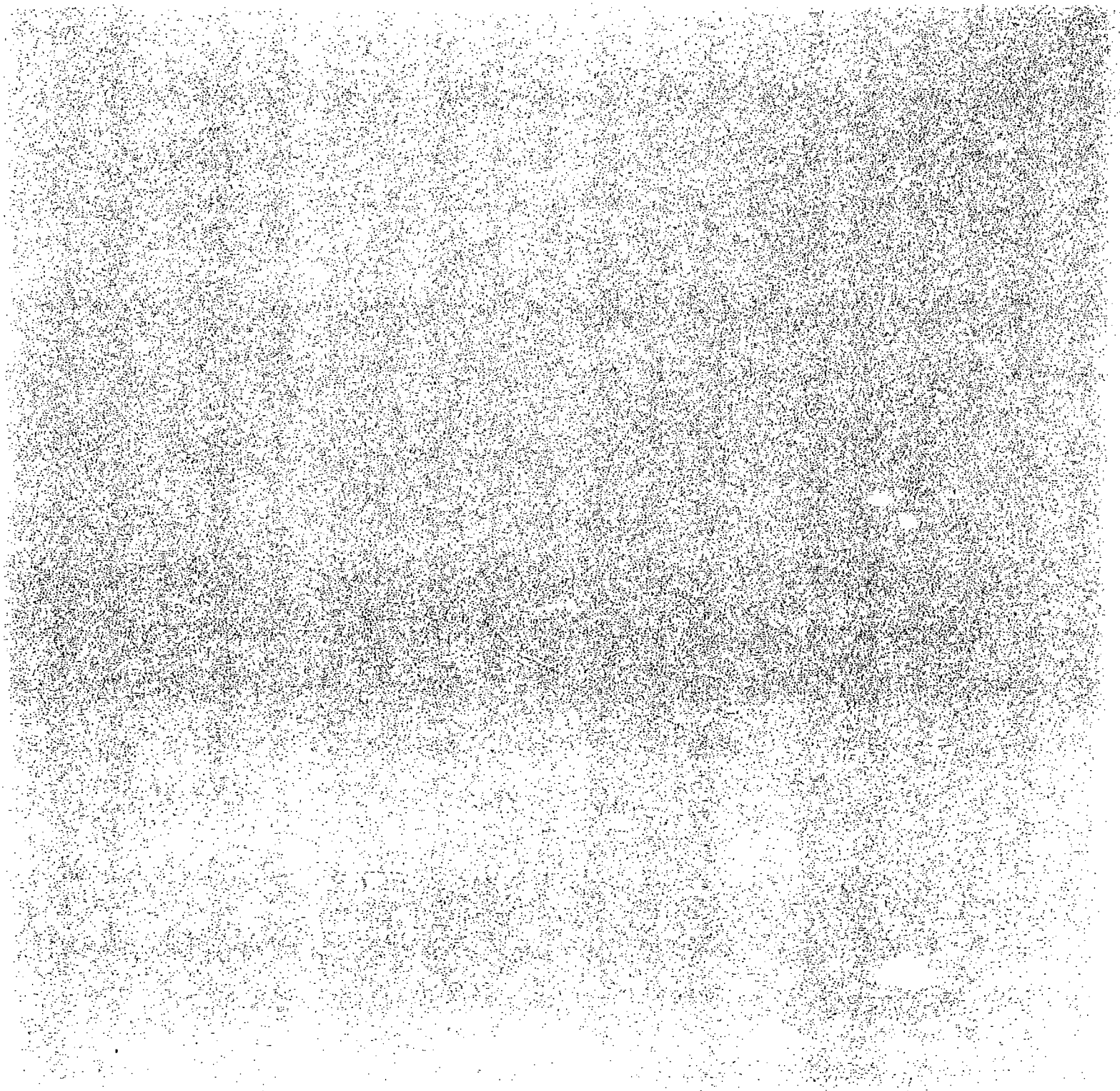
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,152.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A2.50E3
A301.65
A377.85
Time
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:41
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,164.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A3.75E3
A772.54
A907.72
Time
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:115
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,460.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A1.07E6
Time
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T Noise:54
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,216.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
A1.29E6
Time
File:T005824 #1-794 Acq:25-NOV-2000 06:40:16 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-FIELD BLANK TLI#52366 INJ. TIME = 06:42
39:37
39:40
39:53
39:59
40:02
Time



Channel	I	330.9792		Peak top	
Height	.74 volts		Span	200 ppm	
System file name				MORSUS	
Data file name				A:TN25001	
Resolution				10000	
Group number				2	
Ionization mode				EI+	
Switching				VOLTAGE	
Ref. masses	292.9825,			416.9760	
A	293	J	331	S	368
B	304	K	332	T	370
C	306	L	334	U	376
D	316	M	340	V	418
E	318	N	342		
F	320	O	352		
G	322	P	354		
H	328	Q	356		
I	331	R	358		
Ref. mass	416.9760			Peak top	
Height	.21 volts		Span	200 ppm	



TLI Project: **52366** Method 8290 PCDD/PCDF Analysis (t
Client Sample: **BASF-SMW-13** Analysis File: **T00582**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/2000**	Spike File:	**SPMIT32S**
TLI ID:	**274-99-7A**	Date Extracted:	**11/21/2000**	ICal:	**TF57140**
		Date Analyzed:	**11/25/2000**	ConCal:	**T005815**
Sample Size:	**1.050 L**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005817**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	EMPC		2.5			J__
1,2,3,7,8-PeCDD	EMPC		5.7			J__
1,2,3,4,7,8-HxCDD	ND	4.7				___
1,2,3,6,7,8-HxCDD	73.0			1.40	32:54	___
1,2,3,7,8,9-HxCDD	35.6			1.42	33:13	J__
1,2,3,4,6,7,8-HpCDD	1450			1.01	36:06	___
1,2,3,4,6,7,8,9-OCDD	6760			0.81	39:42	___
2,3,7,8-TCDF	114			0.80	24:40	___
1,2,3,7,8-PeCDF	ND	3.8				___
2,3,4,7,8-PeCDF	ND	3.7				___
1,2,3,4,7,8-HxCDF	43.2			1.10	32:07	JB_
1,2,3,6,7,8-HxCDF	17.1			1.22	32:14	J__
2,3,4,6,7,8-HxCDF	EMPC		13.7			J__
1,2,3,7,8,9-HxCDF	EMPC		3.2			JB_
1,2,3,4,6,7,8-HpCDF	52.9			1.17	35:04	___
1,2,3,4,7,8,9-HpCDF	ND	5.2				___
1,2,3,4,6,7,8,9-OCDF	80.1			0.94	39:53	JB_

Totals	Conc. (pg/L)	Number	DL	EMPC	Flags
Total TCDD	80.5	3		97.9	___
Total PeCDD	16.7	1		119	___
Total HxCDD	543	4		580	___
Total HpCDD	2530	2			___
Total TCDF	508	10		652	___
Total PeCDF	208	6		378	___
Total HxCDF	179	5		212	___
Total HpCDF	116	3			___

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Printed: 09:40 11/25/200

TLI Project: **52366** Method 8290 PCDD/PCDF Analysis
Client Sample: **BASF-SMW-13** Analysis File: **T005**

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-2,3,7,8-TCDF	323	17.0	40%-130%	0.74	24:38	V__
$^{13}C_{12}$-2,3,7,8-TCDD	299	15.7	40%-130%	0.81	25:22	V__
$^{13}C_{12}$-1,2,3,7,8-PeCDF	297	15.6	40%-130%	1.50	28:38	V__
$^{13}C_{12}$-1,2,3,7,8-PeCDD	384	20.2	40%-130%	1.49	29:41	V__
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	285	14.9	40%-130%	0.51	32:13	V__
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	312	16.4	40%-130%	1.24	32:54	V__
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	320	16.8	25%-130%	0.42	35:04	V__
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	291	15.3	25%-130%	1.03	36:06	V__
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	318	8.35	25%-130%	0.85	39:41	V__

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-2,3,4,7,8-PeCDF	294	15.4	40%-130%	1.50	29:21	V__
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	296	15.6	40%-130%	0.50	32:07	V__
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	319	16.8	40%-130%	1.23	32:48	V__
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	280	14.7	25%-130%	0.43	36:35	V__

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flag
$^{37}Cl_4$-2,3,7,8-TCDD	133	69.6	40%-130%	25:23	__

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	375	19.7	40%-130%	0.52	33:27	V__
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	313	16.4	40%-130%	0.51	32:42	V__

Recovery Standards	Ratio	RT	Flag
$^{13}C_{12}$-1,2,3,4-TCDD	0.80	25:11	__
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.21	33:12	__

Data Reviewer: _____ 11/25/2000

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Chromatographic Calculations For File:T005825

QC Front End.....: 1.7178
Tetra/Hexa RS Ratio: 0.9865

Initial ....Date...

Data Review By: _____ ___/___/___

Calculated Noise Height: 0.02

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 T005825B.dbf
11/25/2000 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				0.860-1.077			
304-306	DC	NL				Height	0.07	0.03	0.04				
				21:21		0.79	0.50	0.22	0.28	0.867			J
				22:12		0.83	0.75	0.34	0.41	0.901			
				22:34	RO	0.90	1.63	0.71	0.79	0.916			
				23:17		0.82	1.58	0.71	0.87	0.945			
				23:34		0.84	1.25	0.57	0.68	0.957			
				23:53	RO	0.93	2.62	1.14	1.23	0.970			
				24:01	RO	0.96	1.06	0.46	0.48	0.975			
				24:14		0.76	5.64	2.43	3.21	0.984	1278-TCDF	AN	
				24:28		0.66	0.63	0.25	0.38	0.993			
				24:40		0.80	6.17	2.74	3.43	1.001	2378-TCDF	AN	
				25:06		0.82	1.13	0.51	0.62	1.019			
				25:18	RO	1.11	1.01	0.63	0.57	1.027			
				25:30	RO	1.40	0.94	0.74	0.53	1.035			
				25:46		0.82	4.02	1.81	2.21	1.046			
				26:06		0.74	6.02	2.57	3.45	1.060			
				26:23	RO	0.46	0.53	0.23	0.50	1.071			
	DC	WH		26:43		0.76	2.06			1.085			
304-306			16	Peaks			35.48						
13C12-TCDF						0.65-0.89				0.959-1.041			
316-318	DC	NL				Height	0.06	0.03	0.03				
	DC	WL		23:34	RO	1.88	0.14			0.957			
				24:13	RO	0.48	0.37	0.16	0.33	0.983			
				24:38		0.74	100.94	42.90	58.04	1.000	13C12-2378-TCDF	ISO	
						Height	27.70	12.21	15.49				
				25:11		0.74	0.94	0.40	0.54	1.022			
	DC	WH		26:08	RO	3.05	0.34			1.061			
316-318			3	Peaks			102.25						

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

TCDD						0.65-0.89				0.890-1.045			
320-322	DC	NL				Height	0.06	0.03	0.03				
				22:47		0.72	1.72	0.72	1.00	0.898	1368-TCDD	AN	
				23:11		0.82	0.89	0.40	0.49	0.914	1379-TCDD	AN	
	DC	SN		23:28	RO	0.19	0.14			0.925			
	DC	SN		23:36	RO	0.50	0.05			0.930			
				24:09	RO	0.62	0.37	0.16	0.26	0.952			
				24:31		0.86	0.26	0.12	0.14	0.966			J
				24:50	RO	1.30	0.18	0.13	0.10	0.979			J
				25:24	RO	2.20	0.09	0.11	0.05	1.001	2378-TCDD	AN	J
320-322			6	Peaks			3.51						

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.
37Cl-TCDD										0.921-1.079			
328	DC	NL				Height	0.05	0.05					
	DC	WL		22:36			0.11			0.891			
	DC	WL		22:47			0.04			0.898			
	DC	WL		22:53			0.13			0.902			
	DC	WL		23:03			0.92			0.909			
	DC	WL		23:11			0.36			0.914			
	DC	WL		23:16			0.10			0.917			
				23:31			0.06	0.06		0.927			
				23:40			0.13	0.13		0.933			
				23:58			37.51	37.51		0.945			
				24:10			0.12	0.12		0.953			
				24:27			0.07	0.07		0.964			
				24:50			0.13	0.13		0.979			
				25:04			0.12	0.12		0.988			
				25:23			28.75	28.75		1.001	37Cl-TCDD		CLS
				25:36			0.17	0.17		1.009			
				25:47			0.74	0.74		1.016			
				26:10			0.40	0.40		1.032			
				26:43			0.78	0.78		1.053			
328			12	Peaks			68.98						
13C12-TCDD						0.65-0.89				0.921-1.079			
332-334	DC	NL				Height	0.09	0.06	0.03				
				25:11		0.80	463.80	206.22	257.58	0.993	13C12-1234-TCDD		RS1
				25:22		0.81	76.51	34.17	42.34	1.000	13C12-2378-TCDD		IS1
						Height	20.40	9.14	11.26				
332-334			2	Peaks			540.31						
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF						1.32-1.78				0.923-1.064			
340-342	DC	NL				Height	0.04	0.02	0.02				
				26:39	RO	1.09	1.43	0.61	0.56	0.931			J
				26:52	RO	2.60	0.13	0.13	0.05	0.938			J
	DC	SN		26:59	RO	0.67	0.07			0.942			
				27:47	RO	1.93	1.81	1.37	0.71	0.970			J
				27:57	RO	1.00	0.48	0.19	0.19	0.976			J
				28:03	RO	1.08	0.61	0.26	0.24	0.980			J
				28:22	RO	0.74	0.82	0.50	0.68	0.991			J
				28:43		1.49	4.41	2.64	1.77	1.003			
				28:56		1.71	1.30	0.82	0.48	1.010			J
	DC	SN		29:04	RO	0.33	0.08			1.015			
				29:22	RO	1.02	1.68	0.67	0.66	1.026			J
				29:30		1.67	1.36	0.85	0.51	1.030			J
				29:38		1.67	0.24	0.15	0.09	1.035			J
	DC	SN		29:58	RO	0.28	0.08			1.047			
				30:04		1.34	1.03	0.59	0.44	1.050			J
				30:13	RO	0.90	0.15	0.09	0.10	1.055			J
				30:24		1.62	0.34	0.21	0.13	1.062			J
	DC	WH		30:31	RO	1.13	0.20			1.066			
340-342			14	Peaks			15.79						

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						0.860-1.140			
352-354	DC	NL		Height			0.06	0.03	0.03				
				26:49	RO	0.51	0.35	0.21	0.41	0.937			
				27:46		1.63	0.42	0.26	0.16	0.970			
				28:15	RO	3.00	0.10	0.12	0.04	0.987			
				28:21	RO	2.63	0.20	0.21	0.08	0.990			
				28:38		1.50	86.57	51.99	34.58	1.000	13C12-PeCDF 123	IS2	
					Height		27.69	16.32	11.37				
				28:56	RO	1.87	0.77	0.56	0.30	1.010			
				29:02	RO	0.57	0.13	0.08	0.14	1.014			
				29:21		1.50	84.99	50.94	34.05	1.025	13C12-PeCDF 234	SUR1	
	DC	SN		29:40	RO	23.00	0.10			1.036			
				29:48	RO	3.00	0.08	0.09	0.03	1.041			
				30:18	RO	2.00	0.99	0.78	0.39	1.058			
352-354			10	Peaks			174.60						

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

PeCDD				1.32-1.78						0.933-1.021			
356-358	DC	NL		Height			0.05	0.02	0.03				
				27:53	RO	0.15	0.97	0.59	4.05	0.939			J
				28:37	RO	1.07	1.12	0.47	0.44	0.964			J
				28:45	RO	0.81	0.77	0.47	0.58	0.969			J
				28:55		1.68	0.59	0.37	0.22	0.974			J
				29:23	RO	1.06	0.41	0.17	0.16	0.990			J
	DC	SN		29:32	RO	0.16	0.05			0.995			
				29:41	RO	0.52	0.20	0.12	0.23	1.000	12378-PeCDD	AN	J
				29:51	RO	0.14	0.15	0.09	0.64	1.006			J
	DC	WH		30:20	RO	0.88	0.12			1.022			
	DC	WH		30:24	RO	0.81	0.21			1.024			
	DC	WH		30:33	RO	0.45	0.08			1.029			
356-358			7	Peaks			4.21						
13C12-PeCDD				1.32-1.78						0.865-1.135			
368-370	DC	NL		Height			0.04	0.02	0.02				
	DC	SN		28:20	RO	1.00	0.15			0.955			
				28:37	RO	1.15	0.33	0.15	0.13	0.964			
				28:45		1.45	0.27	0.16	0.11	0.969			
				29:41		1.49	63.77	38.19	25.58	1.000	13C12-PeCDD 123	IS3	
					Height		21.38	12.63	8.75				
	DC	SN		30:02	RO	5.00	0.13			1.012			
				30:10		1.75	0.33	0.21	0.12	1.016			
				30:26	RO	1.17	0.15	0.07	0.06	1.025			
				30:32		1.50	0.20	0.12	0.08	1.029			
368-370			6	Peaks			65.05						

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

HxCDF				1.05-1.43						0.961-1.046			
374-376	DC	NL		Height			0.06	0.03	0.03				
				31:10	RO	1.47	0.43	0.28	0.19	0.967			J
				31:17		1.20	1.98	1.08	0.90	0.971			J

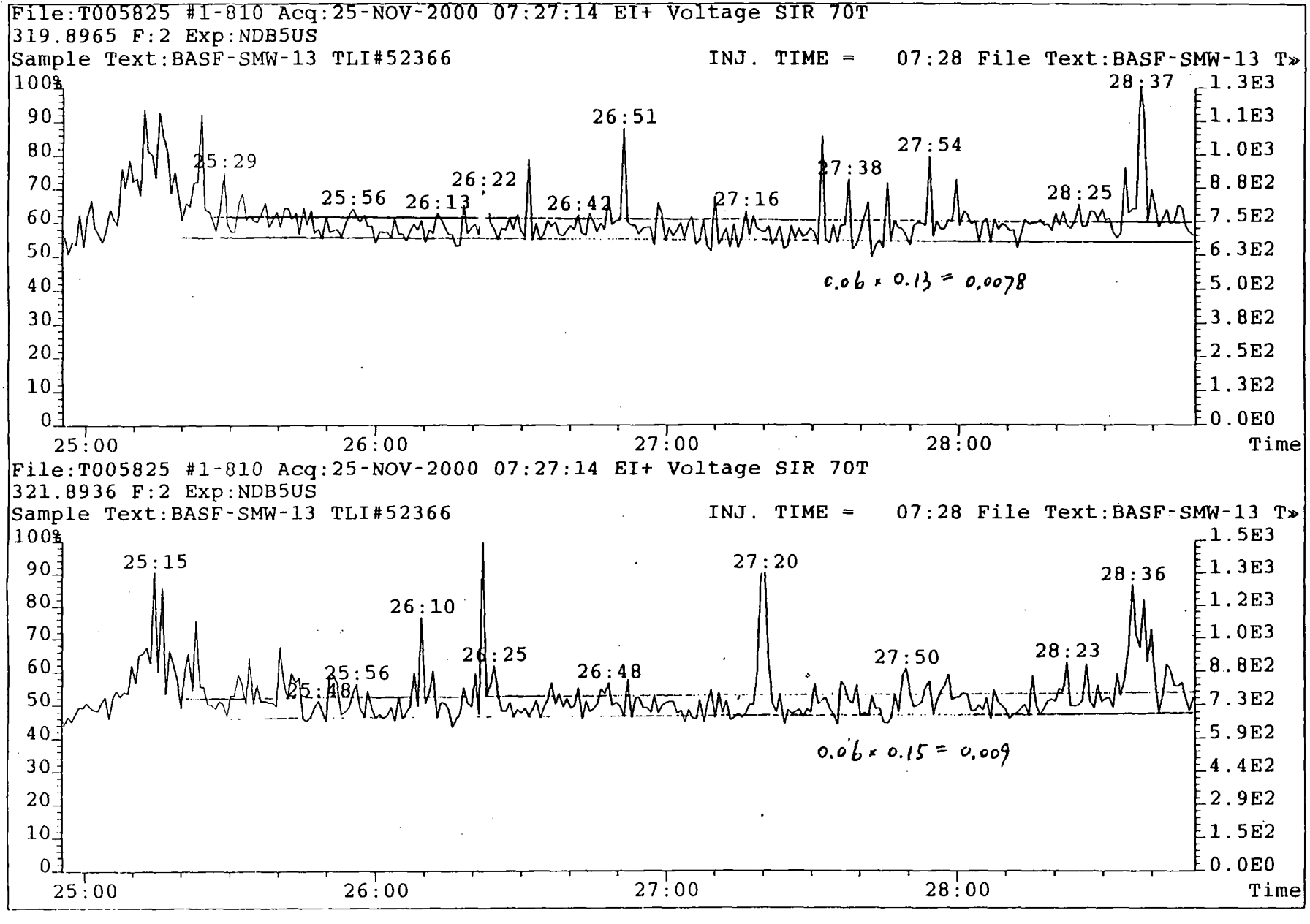
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				31:31	RO	0.82	0.25	0.14	0.17	0.978			J
	DC	SN		31:35		1.40	0.12			0.980			
				31:45		1.13	2.02	1.07	0.95	0.986			
				32:07		1.10	1.93	1.01	0.92	0.997	123478-HxCDF	AN	J
				32:14		1.22	0.80	0.44	0.36	1.001	123678-HxCDF	AN	J
				32:24		1.38	1.00	0.58	0.42	1.006			J
	DC	SN		32:30	RO	1.00	0.16			1.009			
				32:43	RO	1.50	0.58	0.39	0.26	1.016	234678-HxCDF	AN	J
				33:27	RO	0.43	0.11	0.06	0.14	1.038	123789-HxCDF	AN	J
374-376		9	Peaks				9.10						
13C12-HxCDF				0.43-0.59					0.876-1.124				
384-386	DC	NL		Height			0.07	0.03	0.04				
				31:08	RO	0.71	0.50	0.17	0.24	0.966			
				32:07		0.50	85.10	28.31	56.79	0.997	13C12-HxCDF 478	SUR2	
				32:13		0.51	82.96	27.99	54.97	1.000	13C12-HxCDF 678	IS4	
				Height			28.04	9.70	18.34				
				32:28	RO	0.37	0.21	0.07	0.19	1.008			
				32:42		0.51	83.08	28.12	54.96	1.015	13C12-HxCDF 234	ALT2	
				32:58	RO	0.63	0.15	0.05	0.08	1.023			
				33:06	RO	2.29	0.11	0.16	0.07	1.027			
				33:12	RO	1.00	0.26	0.17	0.17	1.031			
				33:27		0.52	73.19	24.94	48.25	1.038	13C12-HxCDF 789	ALT1	
				33:44	RO	1.33	0.09	0.08	0.06	1.047			
	DC	SN		33:47	RO	0.21	0.09			1.049			
384-386		10	Peaks				325.65						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD				1.05-1.43					0.956-1.013				
390-392	DC	NL		Height			0.06	0.03	0.03				
				31:39		1.11	3.50	1.84	1.66	0.962			
				32:06	RO	1.47	1.10	0.72	0.49	0.976			J
				32:18		1.17	9.72	5.24	4.48	0.982			
	DC	SN		32:43	RO	2.00	0.04			0.994			
				32:54		1.40	2.21	1.29	0.92	1.000	123678-HxCDD	AN	
	DC	SN		33:03	RO	0.33	0.04			1.005			
				33:13		1.42	1.09	0.64	0.45	1.010	123789-HxCDD	AN	J
390-392		5	Peaks				17.62						
13C12-HxCDD				1.05-1.43					0.970-1.030				
402-404	DC	NL		Height			0.05	0.03	0.02				
				32:48		1.23	60.20	33.15	27.05	0.997	13C12-HxCDD 478	SUR3	
				32:54		1.24	56.77	31.37	25.40	1.000	13C12-HxCDD 678	IS5	
				Height			19.92	10.90	9.02				
				33:12		1.21	382.27	209.05	173.22	1.009	13C12-HxCDD 789	RS2	
				33:26	RO	0.66	0.42	0.23	0.35	1.016			
402-404		4	Peaks				499.66						
---------- Above: HxCDD / HpCDF Follows ----------													

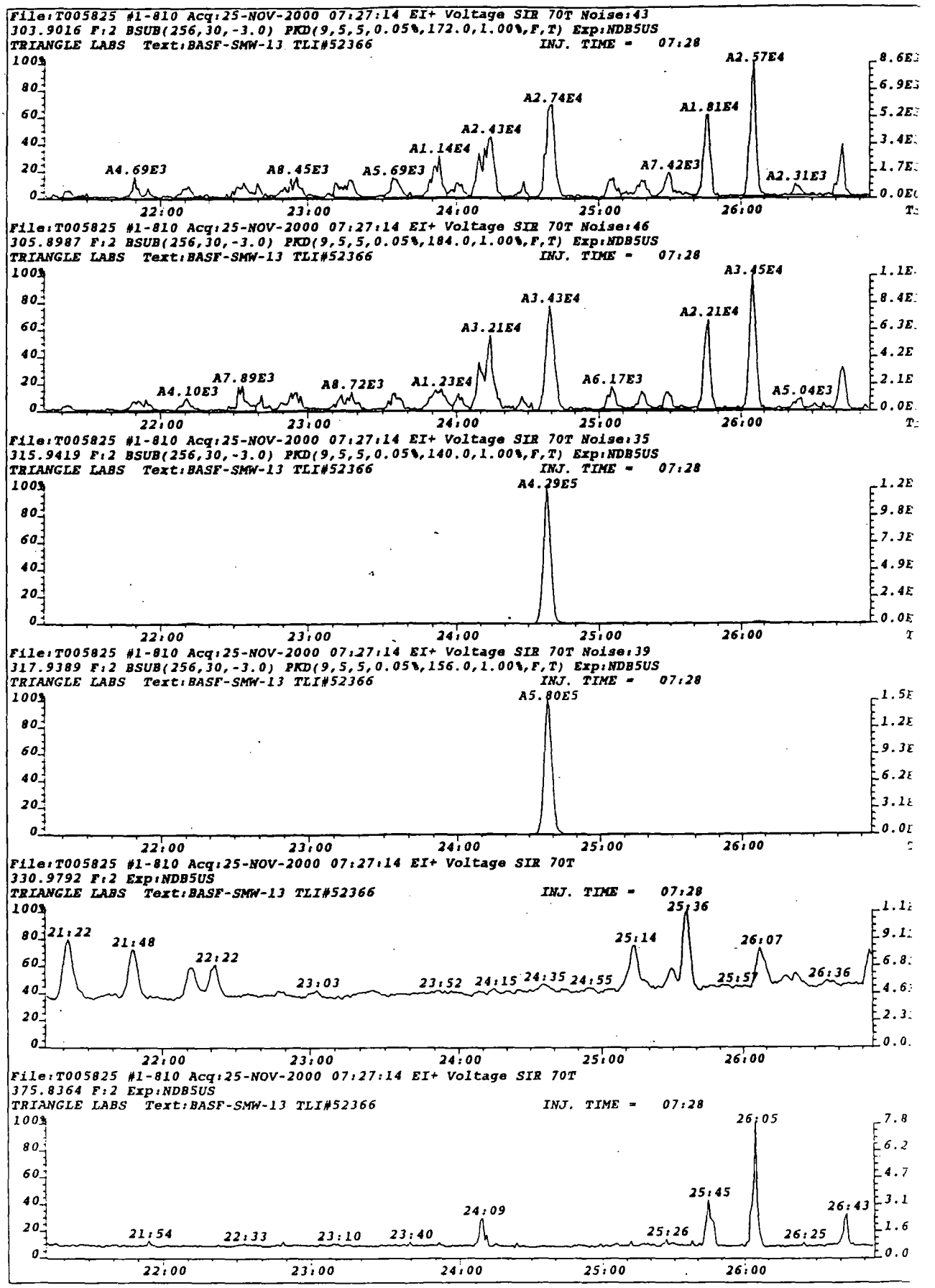
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
HpCDF						0.88-1.20				0.995-1.048			
408-410	DC	NL				Height	0.05	0.03	0.02				
	DC	SN		34:55	RO	25.00	0.02			0.996			
				35:04		1.17	2.17	1.17	1.00	1.000	1234678-HpCDF	AN	
				35:19		1.11	0.40	0.21	0.19	1.007			J
				35:29		1.01	1.91	0.96	0.95	1.012			
408-410			3	Peaks			4.48						
13C12-HpCDF						0.37-0.51				0.943-1.114			
418-420	DC	NL				Height	0.06	0.03	0.03				
				35:04		0.42	62.30	18.40	43.90	1.000	13C12-HpCDF 678	IS6	
						Height	18.84	5.73	13.11				
				36:35		0.43	42.34	12.67	29.67	1.043	13C12-HpCDF 789	SUR4	
418-420			2	Peaks			104.64						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD						0.88-1.20				0.974-1.005			
424-426	DC	NL				Height	0.06	0.03	0.03				
				35:22		1.06	24.19	12.44	11.75	0.980			
	DC	SN		35:35		0.88	0.15			0.986			
	DC	SN		35:46	RO	0.20	0.02			0.991			
				36:06		1.01	32.74	16.42	16.32	1.000	1234678-HpCDD	AN	
	DC	WH		36:34	RO	1.75	0.08			1.013			
424-426			2	Peaks			56.93						
13C12-HpCDD						0.88-1.20				0.972-1.028			
436-438	DC	NL				Height	0.08	0.04	0.04				
	DC	SN		35:20	RO	1.71	0.14			0.979			
	DC	SN		35:38	RO	5.33	0.06			0.987			
				36:06		1.03	50.19	25.42	24.77	1.000	13C12-HpCDD 678	IS7	
						Height	14.23	7.22	7.01				
	DC	SN		36:38		1.00	0.08			1.015			
436-438			1	Peak			50.19						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF						0.76-1.02				0.899-1.101			
442-444	DC	NL				Height	0.04	0.02	0.02				
	DC	WL		35:25	RO	1.50	0.04			0.892			
	DC	WL		35:28		1.00	0.04			0.894			
	DC	SN		36:04	RO	1.88	0.15			0.909			
	DC	SN		36:29	RO	3.00	0.04			0.919			
	DC	SN		36:39	RO	1.33	0.06			0.924			
	DC	SN		36:49	RO	0.50	0.08			0.928			
	DC	SN		37:12	RO	0.62	0.17			0.937			
	DC	SN		38:44	RO	0.60	0.06			0.976			
				38:57	RO	0.55	0.13	0.06	0.11	0.982			
	DC	SN		39:18	RO	0.57	0.08			0.990			
	DC	SN		39:29	RO	0.64	0.15			0.995			
	DC	SN		39:34	RO	1.67	0.06			0.997			
	DC	SN		39:36		1.00	0.06			0.998			

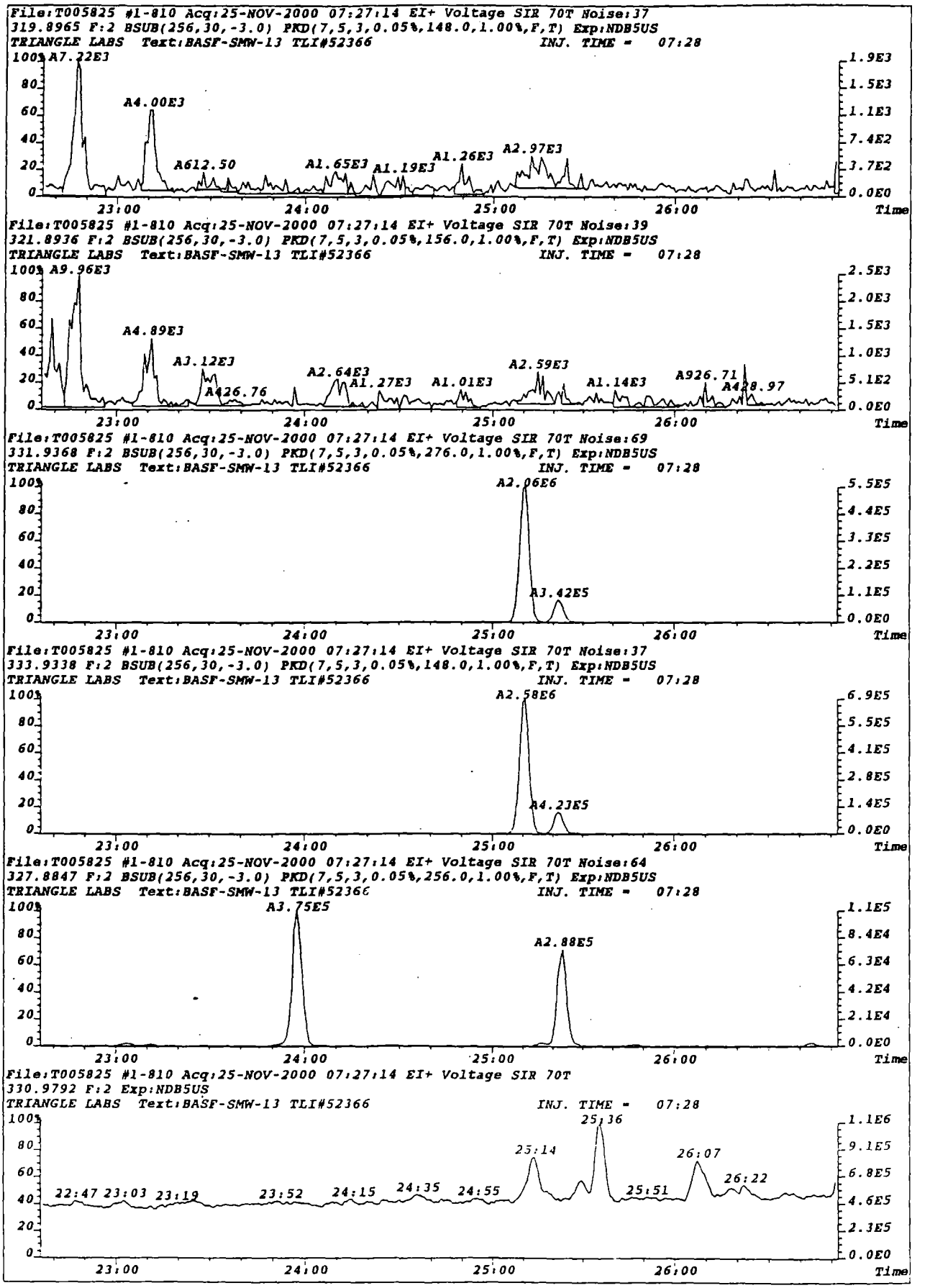
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
	DC	SN		39:41	RO	1.67	0.11			1.000			
				39:53		0.94	1.03	0.50	0.53	1.005	OCDF	AN	J
	DC	SN		42:04	RO	0.50	0.04			1.060			
	DC	SN		42:34	RO	0.20	0.04			1.073			
	DC	SN		42:41	RO	0.25	0.04			1.076			
	DC	SN		42:47	RO	0.50	0.08			1.078			
	DC	SN		43:14		1.00	0.06			1.089			
				43:24	RO	0.67	0.21	0.10	0.15	1.094			
	DC	SN		43:32	RO	2.00	0.09			1.097			
442-444		3	Peaks				1.37						
OCDD				0.76-1.02					0.899-1.101				
458-460	DC	NL		Height			0.05	0.03	0.02				
				39:42		0.81	72.24	32.39	39.85	1.000	OCDD	AN	
458-460		1	Peak				72.24						
13C12-OCDD				0.76-1.02					0.996-1.004				
470-472	DC	NL		Height			0.06	0.03	0.03				
				39:33	RO	0.60	0.13	0.06	0.10	0.997			
				39:41		0.85	44.54	20.47	24.07	1.000	13C12-OCDD	IS8	
				Height			10.04	4.56	5.48				
	DC	WH		40:13	RO	1.25	0.15			1.013			
470-472		2	Peaks				44.67						

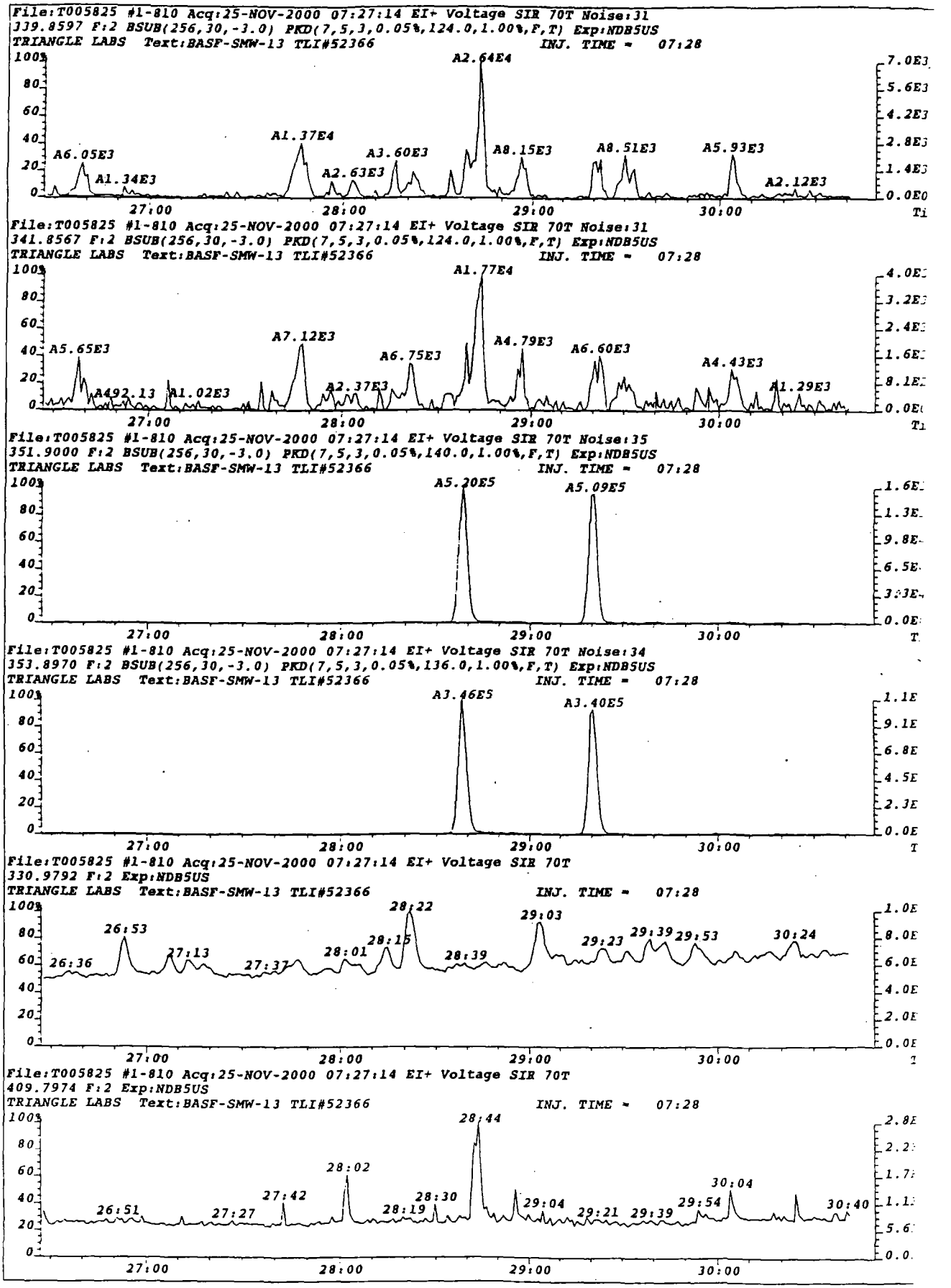
Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside 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

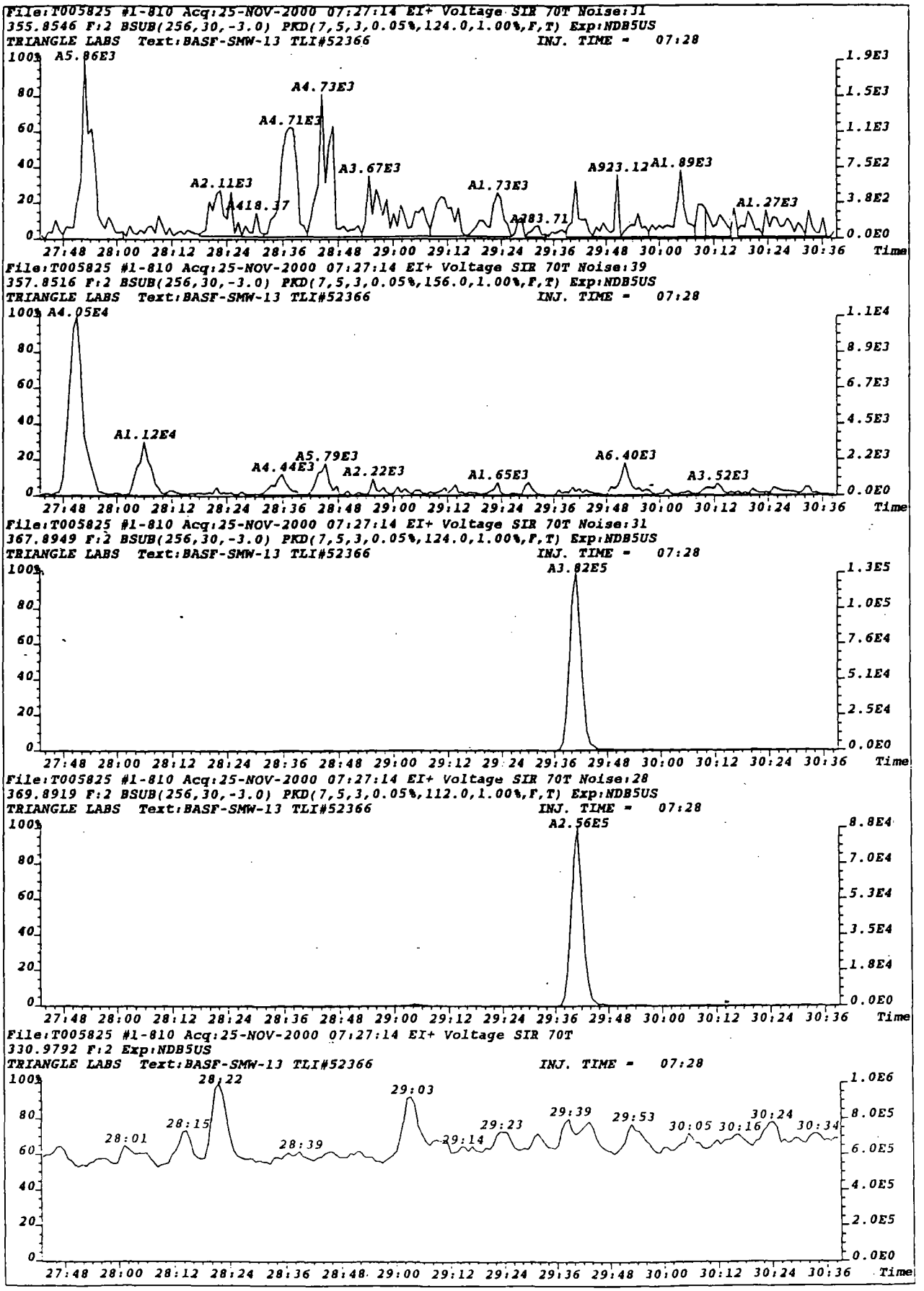
*** End of Report ***

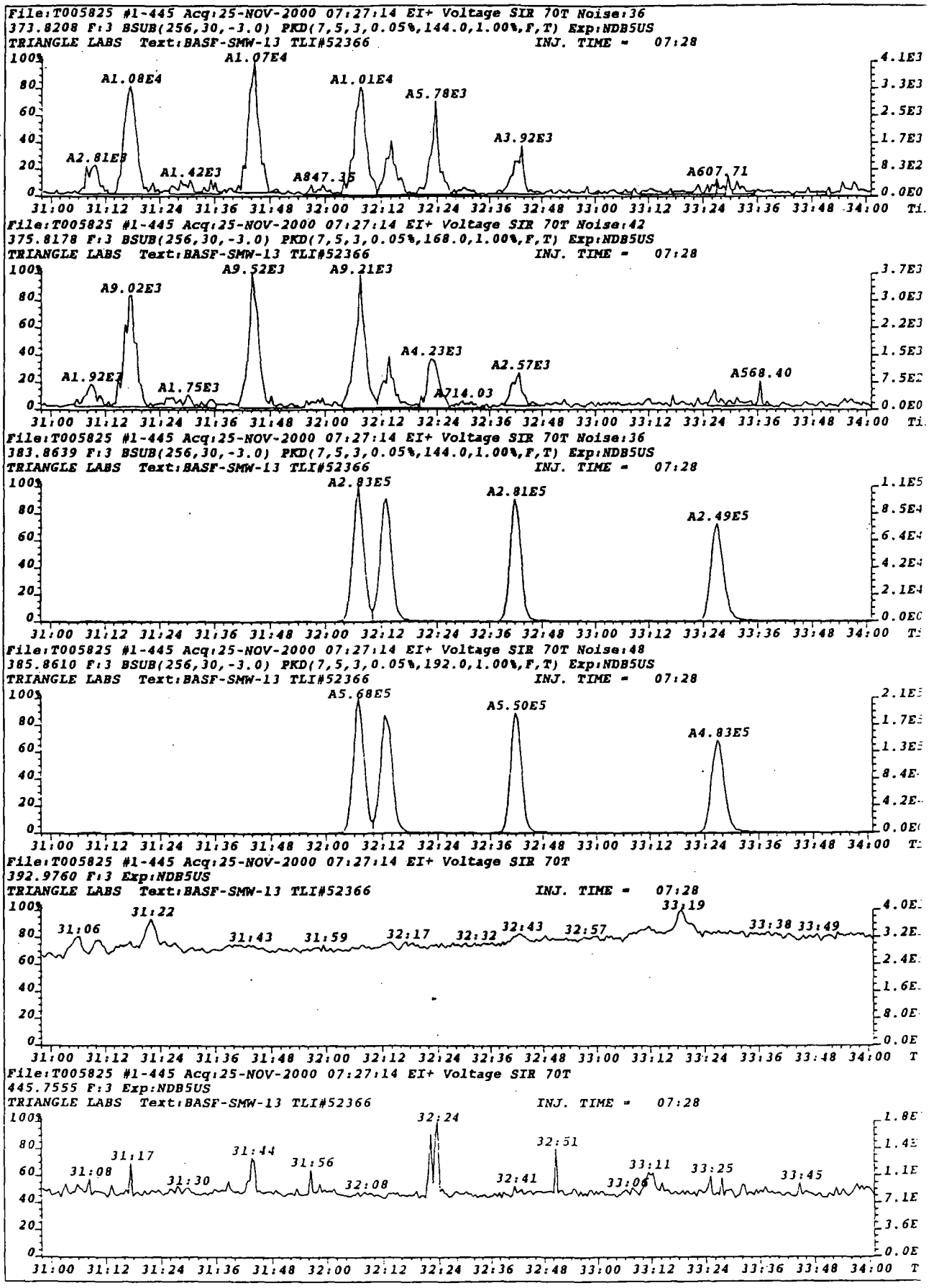

File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
319.8965 F:2 Exp:NDB5US
Sample Text:BASF-SMW-13 TLI#52366
INJ. TIME = 07:28 File Text:BASF-SMW-13 T»
25:29
25:56
26:13
26:22
26:42
26:51
27:16
27:38
27:54
28:25
28:37
0.06 × 0.13 = 0.0078
Time
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
321.8936 F:2 Exp:NDB5US
Sample Text:BASF-SMW-13 TLI#52366
INJ. TIME = 07:28 File Text:BASF-SMW-13 T»
25:15
25:18
25:56
26:10
26:25
26:48
27:20
27:50
28:23
28:36
0.06 × 0.15 = 0.009
Time

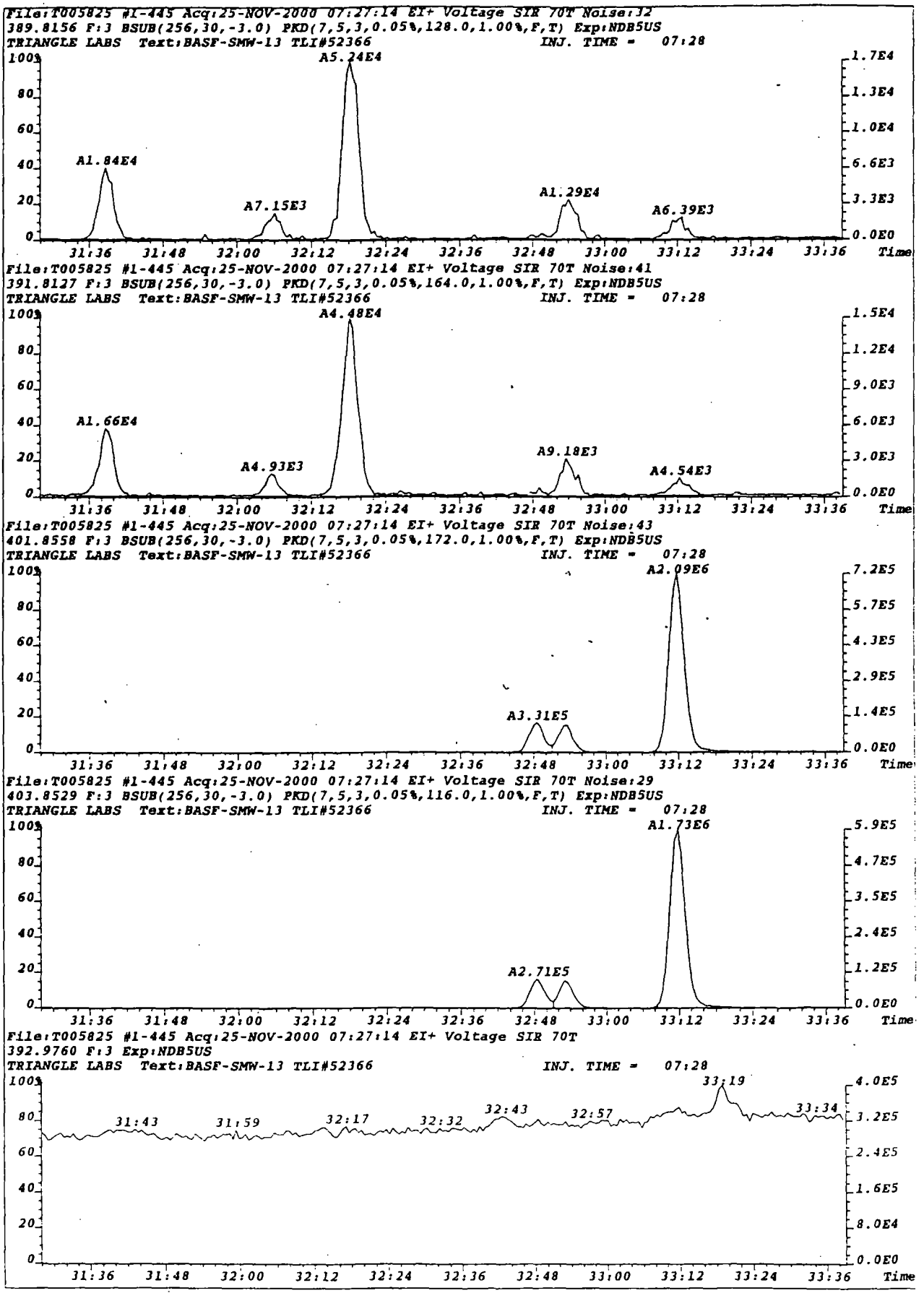

File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:43
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A4.69E3
A8.45E3
A5.69E3
A1.14E4
A2.43E4
A2.74E4
A7.42E3
A1.81E4
A2.57E4
A2.31E3
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:46
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,184.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A4.10E3
A7.89E3
A8.72E3
A1.23E4
A3.21E4
A3.43E4
A6.17E3
A2.21E4
A3.45E4
A5.04E3
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:35
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,140.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A4.29E5
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:39
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A5.80E5
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
21:22
21:48
22:22
23:03
23:52
24:15
24:35
24:55
25:14
25:36
25:57
26:07
26:36
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
21:54
22:33
23:10
23:40
24:09
25:26
25:45
26:05
26:25
26:43
22:00
23:00
24:00
25:00
26:00

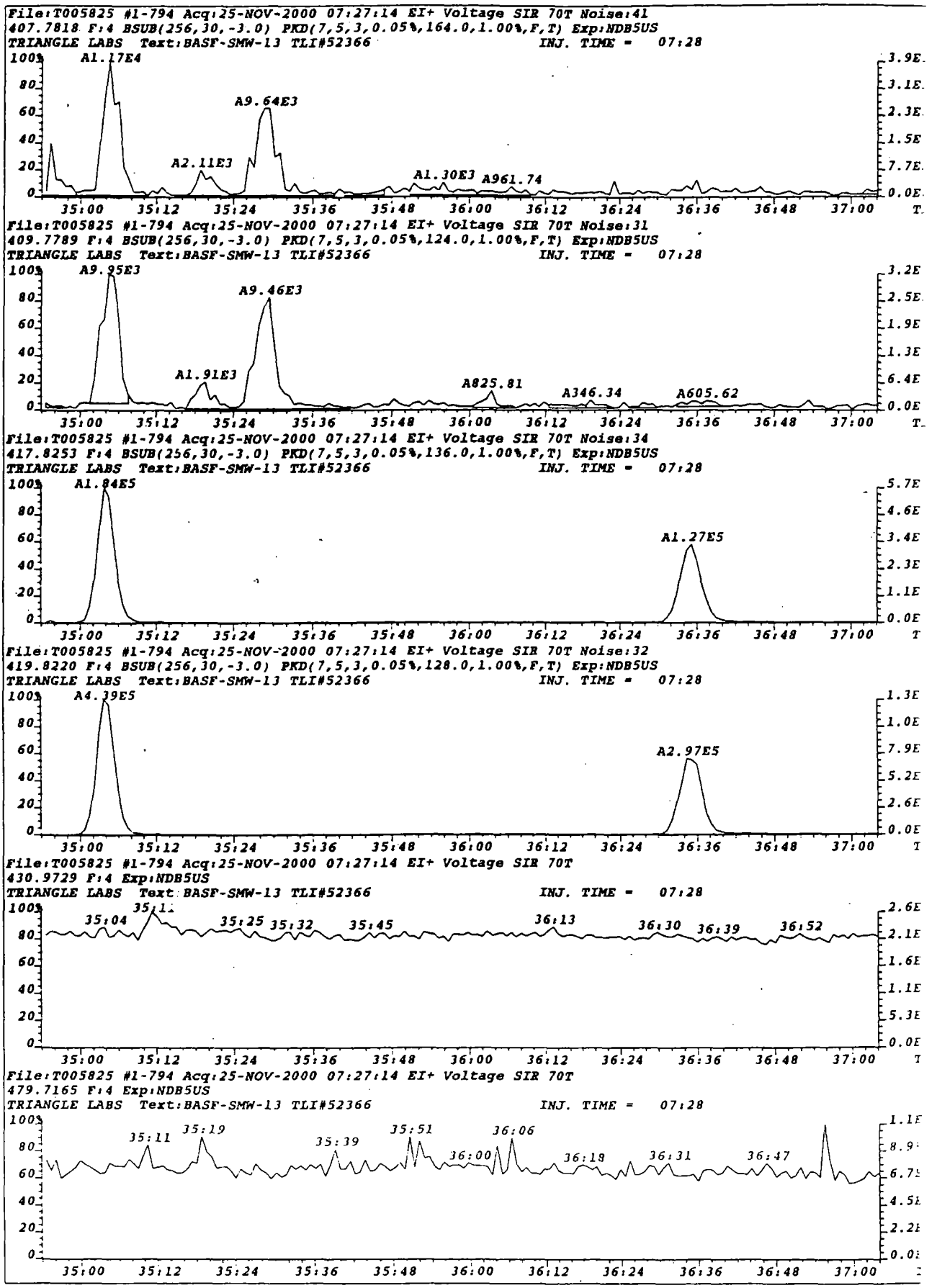

File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:37
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A7.22E3
A4.00E3
A612.50
A1.65E3
A1.19E3
A1.26E3
A2.97E3
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:39
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A9.96E3
A4.89E3
A3.12E3
A426.76
A2.64E3
A1.27E3
A1.01E3
A2.59E3
A1.14E3
A926.71
A428.97
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:69
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A2.06E6
A3.42E5
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:37
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A2.58E6
A4.23E5
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:64
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A3.75E5
A2.88E5
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
25:36
25:14
26:07
26:22
22:47 23:03 23:19 23:52 24:15 24:35 24:55 25:51
23:00 24:00 25:00 26:00 Time


File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:31
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,124.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A2.64E4
A1.37E4
A6.05E3
A1.34E3
A2.63E3
A3.60E3
A8.15E3
A8.51E3
A5.93E3
A2.12E3
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:31
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,124.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A1.77E4
A7.12E3
A5.65E3
A492.13
A1.02E3
A2.37E3
A6.75E3
A4.79E3
A6.60E3
A4.43E3
A1.29E3
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:35
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,140.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A5.20E5
A5.09E5
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:34
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,136.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A3.46E5
A3.40E5
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
26:36
26:53
27:13
27:37
28:01
28:15
28:22
28:39
29:03
29:23
29:39
29:53
30:24
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
26:51
27:27
27:42
28:02
28:19
28:30
28:44
29:04
29:21
29:39
29:54
30:04
30:40
27:00
28:00
29:00
30:00


File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:31
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,124.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A5.86E3
A4.73E3
A4.71E3
A3.67E3
A2.11E3
A418.37
A1.73E3
A283.71
A923.12
A1.89E3
A1.27E3
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:39
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A4.05E4
A1.12E4
A4.44E3
A5.79E3
A2.22E3
A1.65E3
A6.40E3
A3.52E3
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:31
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,124.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A3.82E5
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:28
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,112.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A2.56E5
File:T005825 #1-810 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
28:22
29:03
28:15
28:01
28:39
29:14
29:23
29:39
29:53
30:05
30:16
30:24
30:34
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36
Time


File:T005825 #1-445 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:36
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,144.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A1.07E4
A1.08E4
A1.01E4
A5.78E3
A3.92E3
A2.81E3
A1.42E3
A847.35
A607.71
File:T005825 #1-445 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:42
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,168.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A9.52E3
A9.21E3
A9.02E3
A4.23E3
A2.57E3
A1.92E3
A1.75E3
A714.03
A568.40
File:T005825 #1-445 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:36
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,144.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A2.83E5
A2.81E5
A2.49E5
File:T005825 #1-445 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:48
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,192.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A5.68E5
A5.50E5
A4.83E5
File:T005825 #1-445 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
31:06
31:22
31:43
31:59
32:17
32:32
32:43
32:57
33:19
33:38
33:49
File:T005825 #1-445 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
31:08
31:17
31:30
31:44
31:56
32:08
32:24
32:41
32:51
33:06
33:11
33:25
33:45


File:T005825 #1-445 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:32
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,128.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366
INJ. TIME = 07:28
A5.24E4
A1.84E4
A7.15E3
A1.29E4
A6.39E3
File:T005825 #1-445 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:41
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,164.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366
INJ. TIME = 07:28
A4.48E4
A1.66E4
A4.93E3
A9.18E3
A4.54E3
File:T005825 #1-445 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:43
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366
INJ. TIME = 07:28
A2.09E6
A3.31E5
File:T005825 #1-445 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:29
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,116.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366
INJ. TIME = 07:28
A1.73E6
A2.71E5
File:T005825 #1-445 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366
INJ. TIME = 07:28
31:43
31:59
32:17
32:32
32:43
32:57
33:19
33:34
31:36
31:48
32:00
32:12
32:24
32:36
32:48
33:00
33:12
33:24
33:36
Time


File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:41
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,164.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A1.17E4
A9.64E3
A2.11E3
A1.30E3
A961.74
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:31
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,124.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A9.95E3
A9.46E3
A1.91E3
A825.81
A346.34
A605.62
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:34
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,136.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A1.84E5
A1.27E5
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:32
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,128.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A4.39E5
A2.97E5
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
35:04
35:25
35:32
35:45
36:13
36:30
36:39
36:52
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
35:11
35:19
35:39
35:51
36:06
36:00
36:18
36:31
36:47
35:00
35:12
35:24
35:36
35:48
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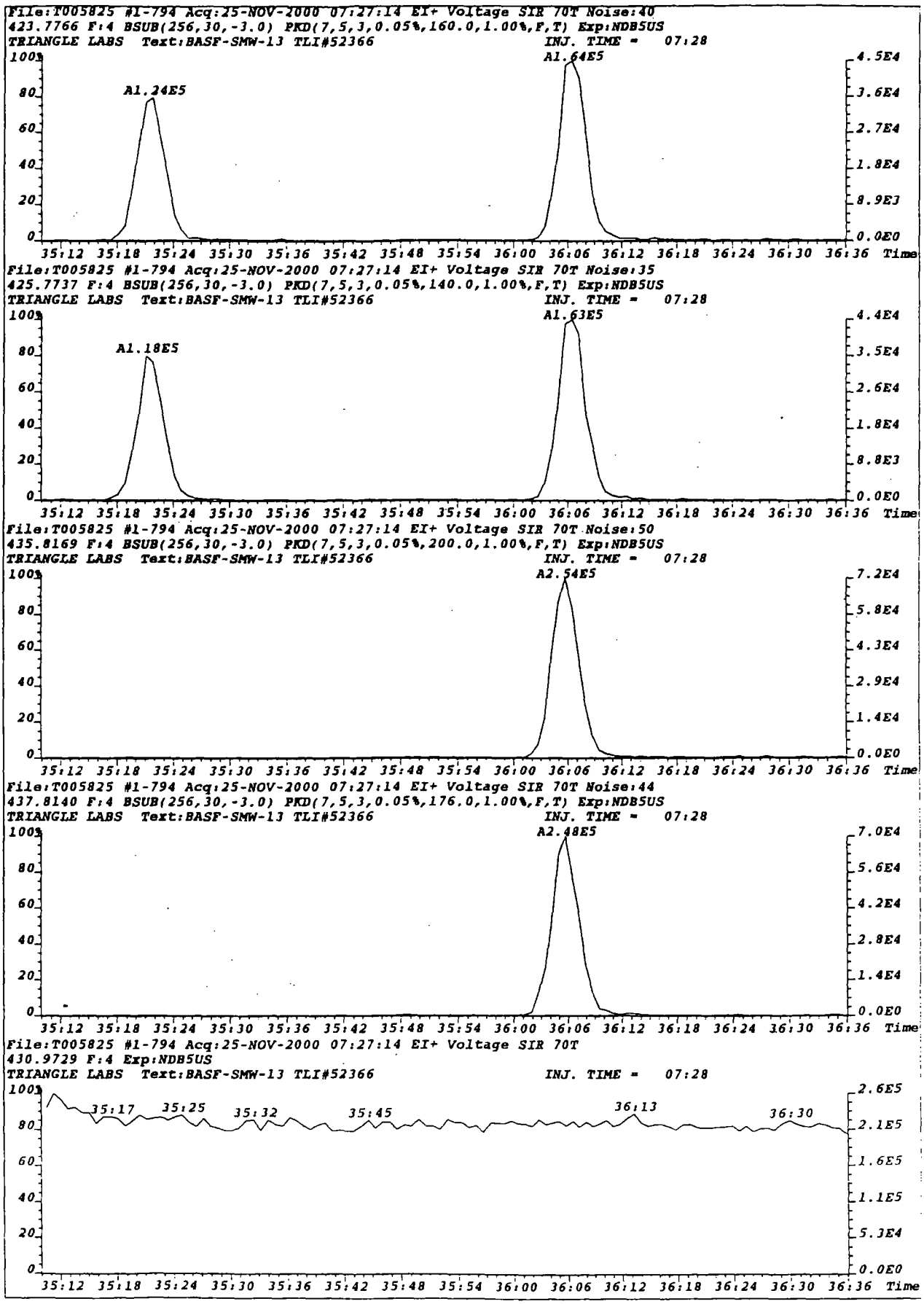
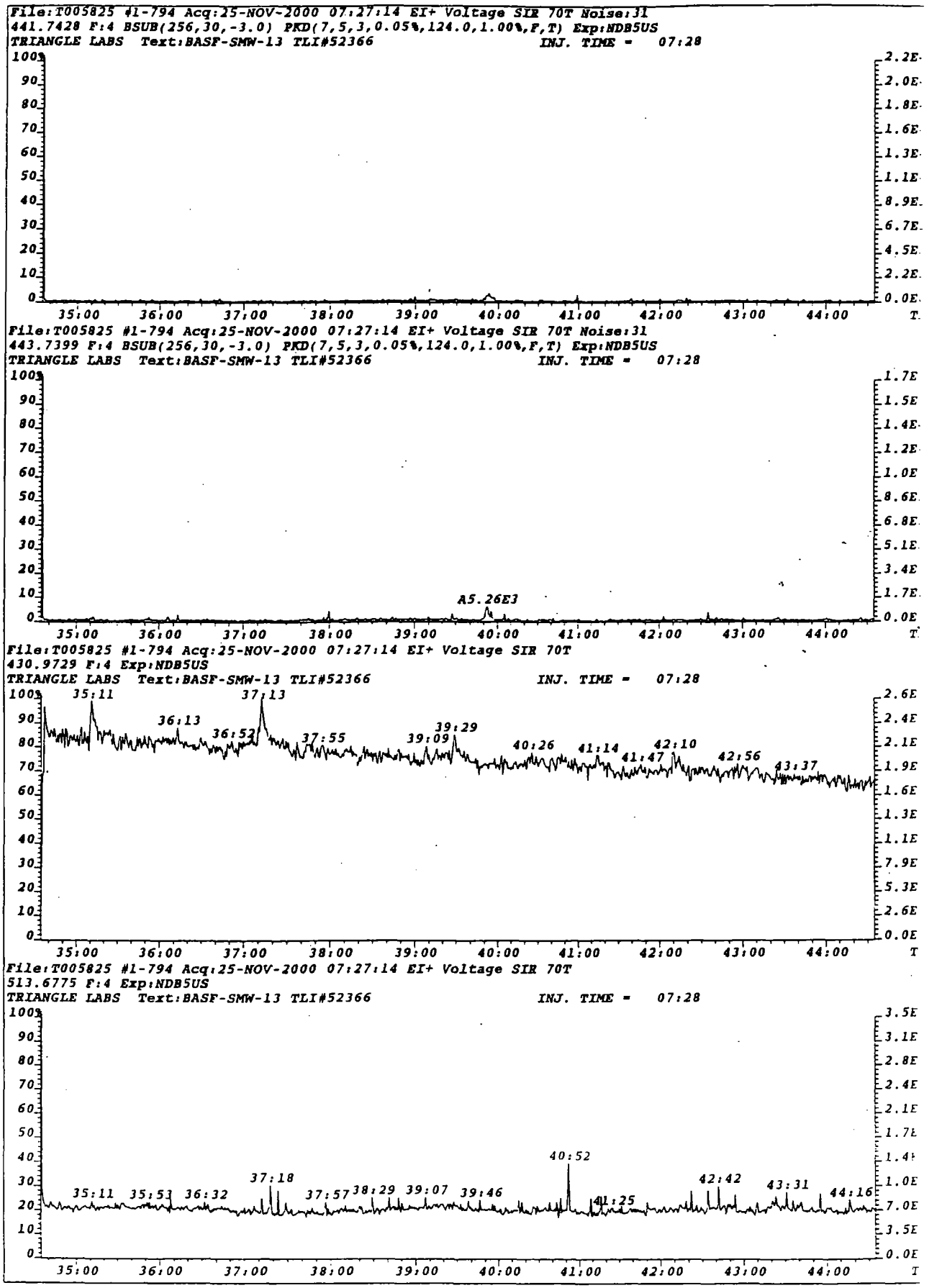
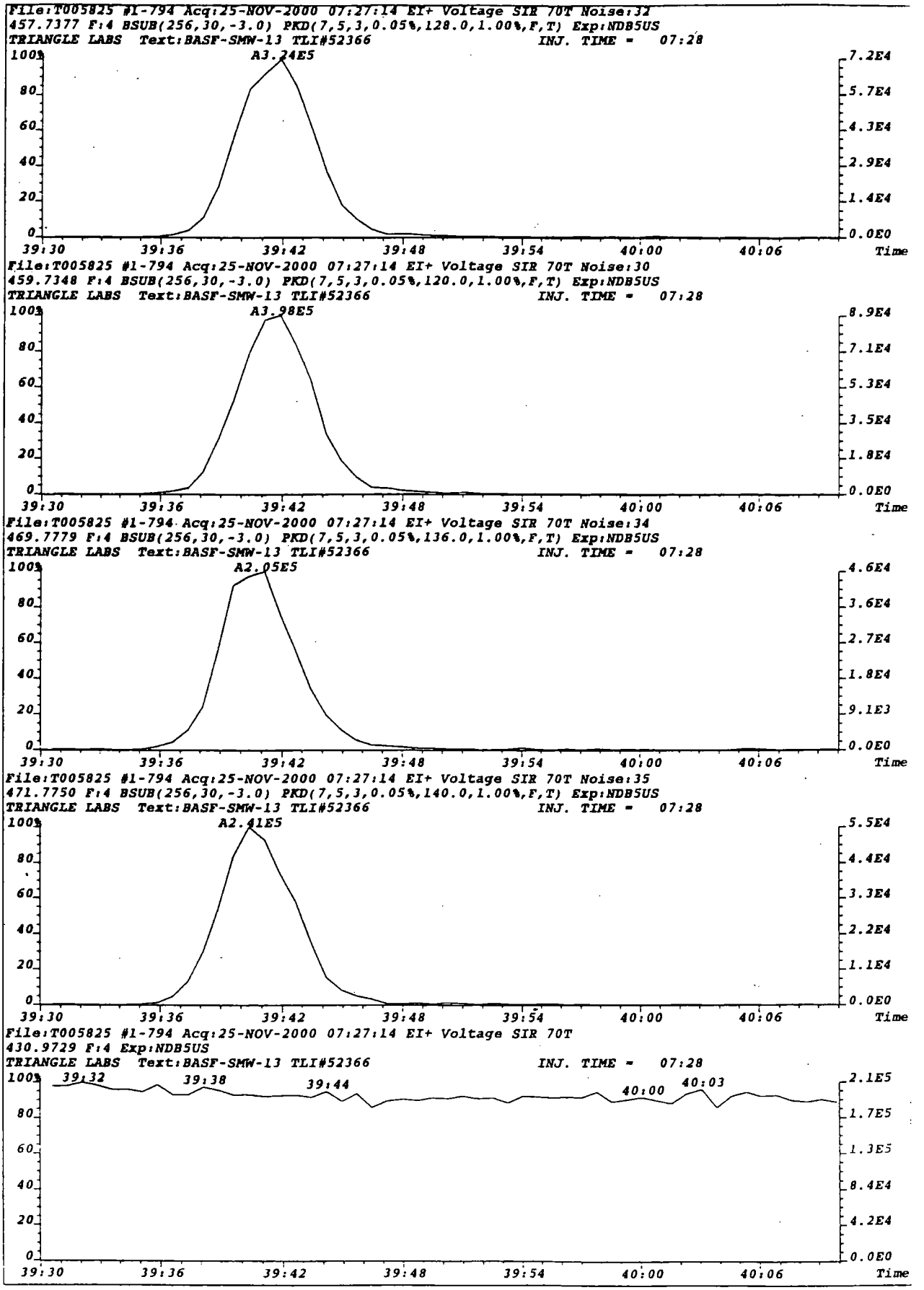
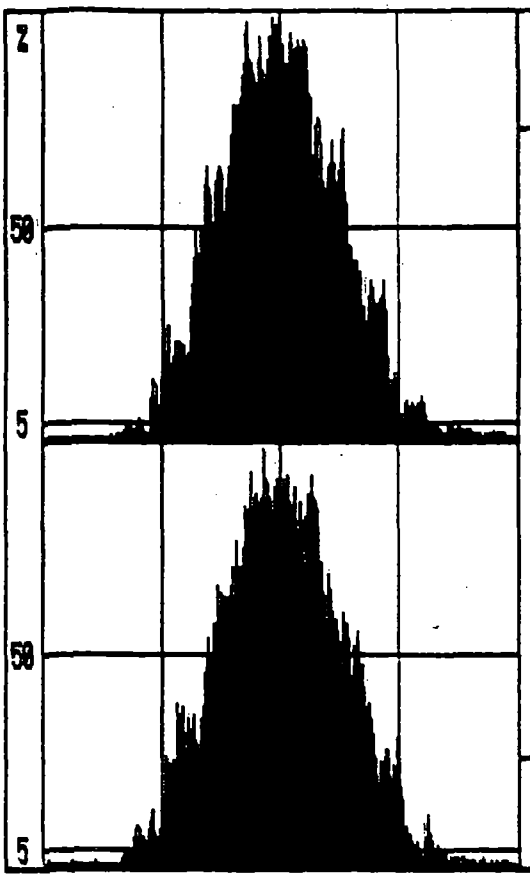
36:24
36:36
36:48
37:00

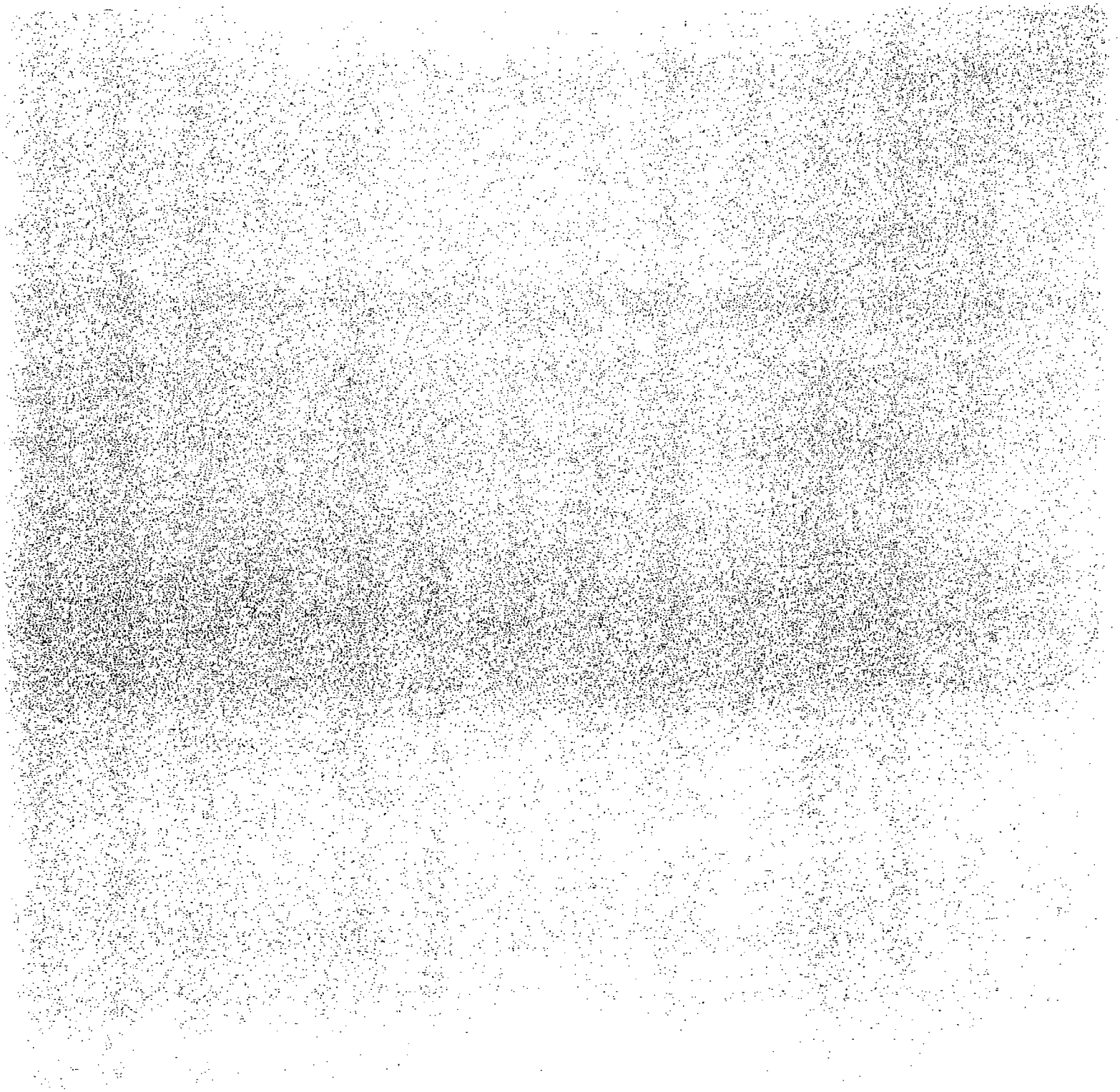

File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:40
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366
INJ. TIME = 07:28
A1.24E5
A1.64E5
100%
80
60
40
20
0
4.5E4
3.6E4
2.7E4
1.8E4
8.9E3
0.0E0
35:12 35:18 35:24 35:30 35:36 35:42 35:48 35:54 36:00 36:06 36:12 36:18 36:24 36:30 36:36 Time
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:35
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,140.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366
INJ. TIME = 07:28
A1.18E5
A1.63E5
4.4E4
3.5E4
2.6E4
1.8E4
8.8E3
0.0E0
35:12 35:18 35:24 35:30 35:36 35:42 35:48 35:54 36:00 36:06 36:12 36:18 36:24 36:30 36:36 Time
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:50
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366
INJ. TIME = 07:28
A2.54E5
7.2E4
5.8E4
4.3E4
2.9E4
1.4E4
0.0E0
35:12 35:18 35:24 35:30 35:36 35:42 35:48 35:54 36:00 36:06 36:12 36:18 36:24 36:30 36:36 Time
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:44
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,176.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366
INJ. TIME = 07:28
A2.48E5
7.0E4
5.6E4
4.2E4
2.8E4
1.4E4
0.0E0
35:12 35:18 35:24 35:30 35:36 35:42 35:48 35:54 36:00 36:06 36:12 36:18 36:24 36:30 36:36 Time
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366
INJ. TIME = 07:28
35:17
35:25
35:32
35:45
36:13
36:30
2.6E5
2.1E5
1.6E5
1.1E5
5.3E4
0.0E0
35:12 35:18 35:24 35:30 35:36 35:42 35:48 35:54 36:00 36:06 36:12 36:18 36:24 36:30 36:36 Time


File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:31
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,124.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:31
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,124.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A5.26E3
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
35:11
36:13
36:52
37:13
37:55
39:09
39:29
40:26
41:14
41:47
42:10
42:56
43:37
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
35:11
35:53
36:32
37:18
37:57
38:29
39:07
39:46
40:52
41:25
42:42
43:31
44:16


File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:32
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,128.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A3.24E5
7.2E4
5.7E4
4.3E4
2.9E4
1.4E4
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:30
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,120.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A3.98E5
8.9E4
7.1E4
5.3E4
3.5E4
1.8E4
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:34
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,136.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A2.05E5
4.6E4
3.6E4
2.7E4
1.8E4
9.1E3
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T Noise:35
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,140.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
A2.41E5
5.5E4
4.4E4
3.3E4
2.2E4
1.1E4
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005825 #1-794 Acq:25-NOV-2000 07:27:14 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-13 TLI#52366 INJ. TIME = 07:28
39:32 39:38 39:44 40:00 40:03
2.1E5
1.7E5
1.3E5
8.4E4
4.2E4
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time



Channel I 330.9792			Peak top
Height .74 volts Span 200 ppm			
System file name			MOBIUS
Data file name			A:TM25001
Resolution			10000
Group number			2
Ionization mode			EI+
Switching			VOLTAGE
Ref. masses 292.9825,			416.9760
A 293	J 331	S 368	
B 304	K 332	T 370	
C 306	L 334	U 376	
D 316	M 340	V 410	
E 318	N 342		
F 320	O 352		
G 322	P 354		
H 328	Q 356		
I 331	R 358		
Ref. mass 416.9760			Peak top
Height .21 volts Span 200 ppm			



TLI Project: 52366 Method 8290 PCDD/PCDF Analysis
Client Sample: BASF-SMW-20 Analysis File: T0058

Client Project:	BASF-Malcolm Pirnie				
Sample Matrix:	WATER	Date Received:	11/17/2000	Spike File:	SPMIT32S
TLI ID:	274-99-8A	Date Extracted:	11/21/2000	ICal:	TF57140
		Date Analyzed:	11/25/2000	ConCal:	T005815
Sample Size:	1.090 L	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T005817	% Lipid:	n/a
GC Column:	DB-5	Analyst:	JMM	% Solids:	n/a

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	ND	20.0				
1,2,3,7,8-PeCDD	181			1.46	29:58	
1,2,3,4,7,8-HxCDD	ND	3.1				
1,2,3,6,7,8-HxCDD	586			1.18	33:21	
1,2,3,7,8,9-HxCDD	ND	3.1				
1,2,3,4,6,7,8-HpCDD	72990			1.05	36:13	E
1,2,3,4,6,7,8,9-OCDD	205370			0.80	39:48	E
2,3,7,8-TCDF	2920			0.82	25:22	
1,2,3,7,8-PeCDF	967			1.55	29:40	
2,3,4,7,8-PeCDF	ND	9.4				
1,2,3,4,7,8-HxCDF	ND	8.5				
1,2,3,6,7,8-HxCDF	651			1.26	32:52	
2,3,4,6,7,8-HxCDF	ND	9.0				
1,2,3,7,8,9-HxCDF	ND	11.0				
1,2,3,4,6,7,8-HpCDF	4030			1.05	35:12	
1,2,3,4,7,8,9-HpCDF	906			1.01	36:42	
1,2,3,4,6,7,8,9-OCDF	5160			0.90	39:59	

Totals	Conc. (pg/L)	Number	DL	EMPC	Flags
Total TCDD	1720	4	2340		
Total PeCDD	1040	4	1580		
Total HxCDD	10730	5			
Total HpCDD	127110	2			E
Total TCDF	27100	15	28890		E
Total PeCDF	11600	11	11940		
Total HxCDF	9130	11	9260		
Total HpCDF	8190	4			

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Printed: 09:42 11/25/2

TLI Project: **52366** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **BASF-SMW-20** Analysis File: **T005826**

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	530	28.9	40%-130%	0.64	25:21	VRO___
$^{13}C_{12}$-2,3,7,8-TCDD	587	32.0	40%-130%	0.77	26:00	V___
$^{13}C_{12}$-1,2,3,7,8-PeCDF	916	49.9	40%-130%	1.46	29:39	___
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1080	59.1	40%-130%	1.50	29:57	___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	393070	21420	40%-130%	0.50	32:52	___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1694720	92360	40%-130%	1.22	33:20	___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	330460	18010	25%-130%	0.45	35:11	___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	282500	15400	25%-130%	1.13	36:13	___
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	284960	7770	25%-130%	0.99	39:47	___

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	Interference					___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	Interference					___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	Interference					___
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	287390	15660	25%-130%	0.43	36:42	___

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	214	116	40%-130%	26:02	___

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	Interference					___
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	Interference					___

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.80	25:48	___
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	0.44	33:39	RO___

Data Reviewer: _____ 11/25/2000

MIT3_PSR v1.00, LARS 6.25.001

Triangle Laboratories, Inc.®
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Printed: 09:42 11/25/2000

ERROR REPORT - TLI_AMT v3.11 For File:T005826

** Can't find peak For 13C12-2378-TCDF
** Can't find peak For 13C12-HxCDD 789
*** End of Error Report ***
Chromatographic Calculations For File:T005826

QC Front End.....: 1.6185
Tetra/Hexa RS Ratio:421.636

Initial ....Date...

Data Review By: _____ ___/___/___

Calculated Noise Height: 0.04

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 T005826B.dbf
11/25/2000 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				0.860-1.077			
304-306	DC	NL				Height	0.31	0.14	0.17				
				22:51		0.73	7.64	3.23	4.41	0.901			
				23:03		0.74	7.67	3.26	4.41	0.909			
				23:17		0.82	13.21	5.95	7.26	0.918			
				23:35	RO	0.92	38.57	16.78	18.25	0.930			
				23:51		0.89	35.72	16.84	18.88	0.941			
				24:05		0.79	28.43	12.55	15.88	0.950			
				24:25		0.85	18.46	8.50	9.96	0.963			
				24:39		0.83	20.75	9.40	11.35	0.972			
				24:47		0.87	24.46	11.35	13.11	0.978			
				24:59		0.76	50.91	22.04	28.87	0.986			
				25:12		0.85	10.86	5.00	5.86	0.994			
				25:22		0.82	62.80	28.21	34.59	1.001	2378-TCDF	AN	
				25:45		0.85	10.42	4.79	5.63	1.016			
				25:58		0.81	23.13	10.38	12.75	1.024			
				26:33		0.80	261.41	116.01	145.40	1.047			E
				26:58		0.77	7.29	3.17	4.12	1.064			
304-306			16	Peaks			621.73						
13C12-TCDF						0.65-0.89				0.959-1.041			
316-318	DC	NL				Height	0.40	0.19	0.21				
	DC	WL		22:04		0.68	20.52			0.870			
				25:21	RO	0.64	38.60	16.79	26.10	1.000	13C12-2378-TCDF	ISO	
						Height	11.90	4.74	7.16				
316-318			1	Peak			38.60						

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

TCDD						0.65-0.89				0.890-1.045			
320-322	DC	NL				Height	0.15	0.07	0.08				
	DC	SN	23:09	RO	0.42	0.51				0.890			
			23:43		0.79	17.05	7.51	9.54	0.912				
			24:03		0.84	8.06	3.69	4.37	0.925				
			24:57	RO	0.90	6.23	2.71	3.00	0.960				
			25:10	RO	0.50	2.44	1.06	2.13	0.968				
			25:30		0.88	1.60	0.75	0.85	0.981				
			26:08	RO	1.22	0.73	0.50	0.41	1.005				
			26:26		0.82	3.42	1.54	1.88	1.017				
			26:56	RO	0.97	1.43	0.62	0.64	1.036				
320-322			8	Peaks			40.96						
37Cl-TCDD										0.921-1.079			
328	DC	NL				Height	0.32	0.32					

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		22:45			11.31			0.875			
	DC	WL		22:56			23.63			0.882			
	DC	WL		23:04			5.51			0.887			
	DC	WL		23:14			476.90			0.894			
	DC	WL		23:32			3.25			0.905			
	DC	WL		23:53			37.88			0.919			
				24:13			12.29	12.29		0.931			
				24:39			1,997.79	1,997.79		0.948			
				25:21			5.28	5.28		0.975			
				25:48			4.12	4.12		0.992			
				26:02			10.81	10.81		1.001	37Cl-TCDD		CLS
				26:21			17.82	17.82		1.013			
328			6	Peaks			2,048.11						
13C12-TCDD				0.65-0.89						0.921-1.079			
332-334	DC	NL			Height		0.22	0.14	0.08				
	DC	WL		22:48	RO	1.06	0.96			0.877			
	DC	WL		22:57	RO	0.64	0.48			0.883			
	DC	WL		23:07	RO	1.49	0.62			0.889			
	DC	WL		23:36	RO	0.30	0.21			0.908			
				25:48		0.80	104.27	46.38	57.89	0.992	13C12-1234-TCDD		RS1
				26:00		0.77	35.09	15.22	19.87	1.000	13C12-2378-TCDD		IS1
					Height		10.03	4.31	5.72				
				26:20		0.76	0.51	0.22	0.29	1.013			
				26:30	RO	2.19	0.57	0.70	0.32	1.019			
				26:34	RO	0.41	0.62	0.27	0.66	1.022			
332-334			5	Peaks			141.06						
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF				1.32-1.78						0.923-1.064			
340-342	DC	NL			Height		0.16	0.09	0.07				
	DC	WL		26:33	RO	8.04	1.15			0.895			
	DC	WL		27:09		1.39	13.98			0.916			
				28:04		1.39	7.45	4.33	3.12	0.947			
				28:12		1.52	55.10	33.21	21.89	0.951			
				28:20		1.54	13.22	8.02	5.20	0.956			
				28:37		1.69	6.34	3.98	2.36	0.965			
				28:45		1.56	9.27	5.65	3.62	0.970			
				29:00		1.58	163.22	99.88	63.34	0.978			
				29:09		1.55	5.16	3.14	2.02	0.983			
				29:15		1.64	10.26	6.37	3.89	0.987			
				29:40		1.55	30.01	18.25	11.76	1.001	12378-PeCDF		AN
				29:47		1.50	35.24	21.13	14.11	1.004			
				30:09	RO	2.21	6.45	5.58	2.53	1.017			
				30:17		1.45	26.92	15.95	10.97	1.021			
				30:34	RO	1.93	4.18	3.16	1.64	1.031			
340-342			13	Peaks			372.82						
13C12-PeCDF				1.32-1.78						0.860-1.140			
352-354	DC	NL			Height		0.14	0.06	0.08				
				26:29	RO	0.61	2.32	1.41	2.32	0.893			

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.
				26:34	RO	0.79	2.50	1.52	1.92	0.896			
	DC	SN		27:10	RO	0.83	0.25			0.916			
				27:19		1.56	0.41	0.25	0.16	0.921			
				27:52	RO	0.90	0.59	0.36	0.40	0.940			
				28:59		1.47	83.42	49.71	33.71	0.978			
				29:39		1.46	62.43	37.07	25.36	1.000	13C12-PeCDF 123	IS2	
						Height	21.15	12.90	8.25				
				29:54	RO	2.91	1.10	1.25	0.43	1.008			
				30:05	RO	0.85	2.01	1.22	1.43	1.015			
352-354		8	Peaks				154.78						
---------- Above: PeCDF / PeCDD Follows ----------													
PeCDD						1.32-1.78			0.933-1.021				
356-358	DC	NL				Height	0.06	0.03	0.03				
				28:04	RO	0.48	0.67	0.41	0.85	0.937			J
				28:37	RO	0.64	2.48	1.51	2.36	0.955			
				28:45		1.49	1.94	1.16	0.78	0.960			
				28:57		1.53	13.23	8.00	5.23	0.967			
				29:05		1.41	5.67	3.32	2.35	0.971			
				29:17	RO	1.98	2.37	1.84	0.93	0.978			
				29:47	RO	0.33	3.96	2.41	7.29	0.994			
				29:58		1.46	4.38	2.60	1.78	1.001	12378-PeCDD		AN
				30:05	RO	0.25	3.50	2.13	8.64	1.004			
356-358		9	Peaks				38.20						
13C12-PeCDD						1.32-1.78			0.865-1.135				
368-370	DC	NL				Height	0.08	0.04	0.04				
				27:50		1.74	0.52	0.33	0.19	0.929			
	DC	SN		28:21	RO	0.83	0.08			0.947			
				28:58	RO	2.61	0.46	0.47	0.18	0.967			
				29:04		1.77	0.72	0.46	0.26	0.971			
	DC	SN		29:40	RO	3.38	0.20			0.991			
				29:57		1.50	42.03	25.24	16.79	1.000	13C12-PeCDD 123	IS3	
						Height	14.17	8.58	5.59				
				30:09	RO	0.93	0.44	0.27	0.29	1.007			
	DC	SN		30:20	RO	5.00	0.18			1.013			
368-370		5	Peaks				44.17						
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF						1.05-1.43			0.961-1.046				
374-376	DC	NL				Height	0.47	0.22	0.25				
	DC	WL		30:59		1.09	4.36			0.943			
	DC	WL		31:22		1.22	15.73			0.954			
	DC	WL		31:30		1.32	72.17			0.958			
				31:39		1.10	2.27	1.19	1.08	0.963			
				31:47		1.32	4.73	2.69	2.04	0.967			
				31:56		1.31	51.62	29.23	22.39	0.972			
				32:07	RO	0.99	4.26	2.36	2.39	0.977			
				32:18		1.32	120.48	68.45	52.03	0.983			
				32:23		1.29	36.99	20.81	16.18	0.985			

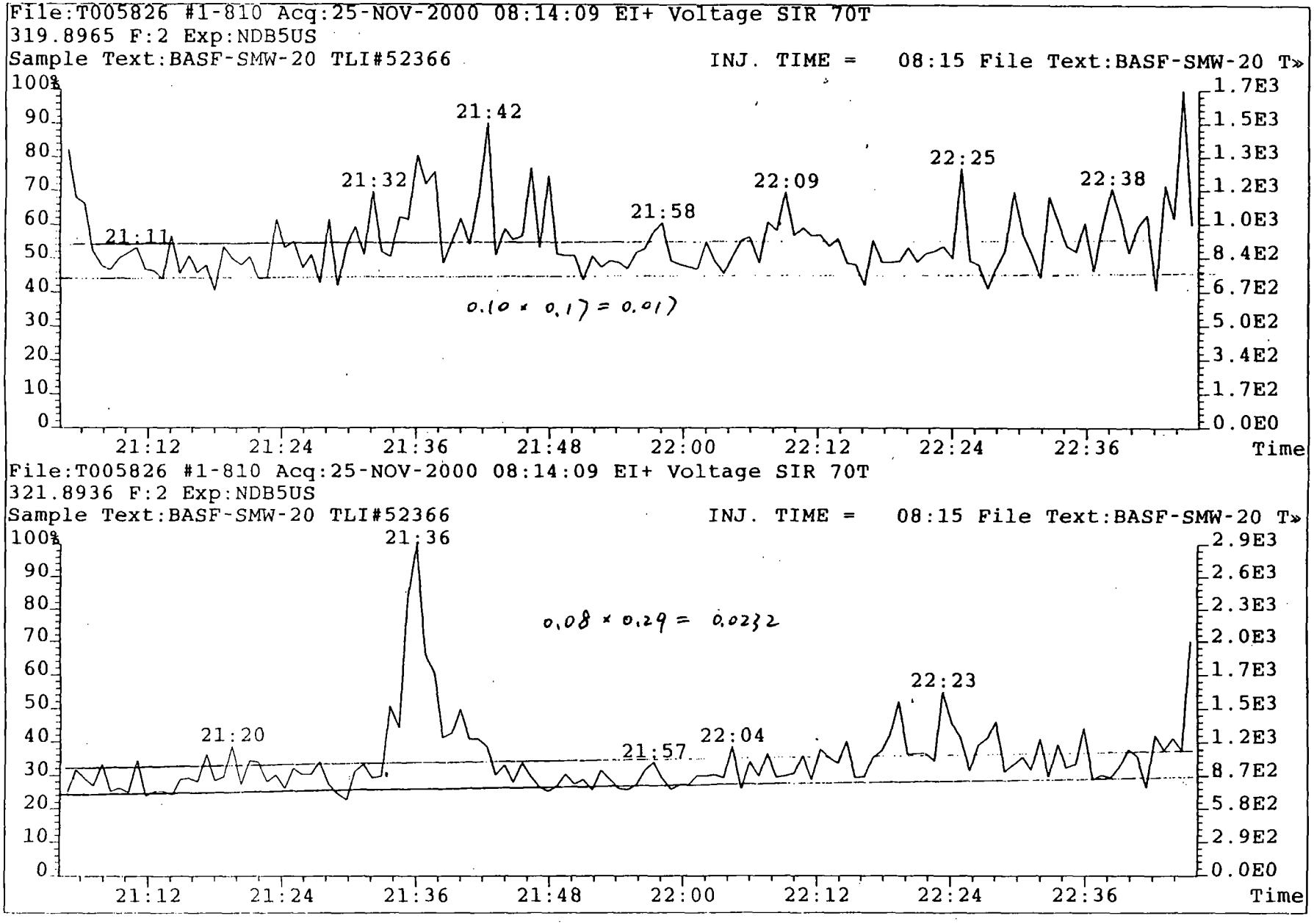
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				32:31		1.24	36.30	20.13	16.17	0.989			
				32:39		1.32	4.58	2.61	1.97	0.993			
				32:52		1.26	23.74	13.24	10.50	1.000	123678-HxCDF		AN
				33:33		1.38	4.29	2.49	1.80	1.021			
				33:40		1.28	10.35	5.81	4.54	1.024			
				34:02		1.09	6.33	3.30	3.03	1.035			
374-376			12	Peaks			305.94						
13C12-HxCDF				0.43-0.59					0.876-1.124				
384-386	DC	NL		Height			0.40	0.15	0.25				
				31:21	RO	0.80	1.27	0.43	0.54	0.954			
				32:17		0.51	74.90	25.31	49.59	0.982			
				32:23		0.52	70.36	24.16	46.20	0.985			
				32:52		0.50	62.21	20.85	41.36	1.000	13C12-HxCDF 678		IS4
				Height			20.92	6.66	14.26				
				33:03	RO	2.38	0.92	1.45	0.61	1.006			
				33:36		0.52	52.65	18.10	34.55	1.022			
384-386			6	Peaks			262.31						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD				1.05-1.43					0.956-1.013				
390-392	DC	NL		Height			0.38	0.17	0.21				
	DC	WL		31:28	RO	0.66	3.05			0.944			
	DC	WL		31:50		1.21	90.25			0.955			
				32:16		1.21	49.13	26.88	22.25	0.968			
				32:28		1.22	728.06	399.93	328.13	0.974			
				32:37		1.27	4.81	2.69	2.12	0.979			
				33:03		1.21	163.99	89.69	74.30	0.992			
				33:21		1.18	54.40	29.47	24.93	1.001	123678-HxCDD		AN
390-392			5	Peaks			1,000.39						
13C12-HxCDD				1.05-1.43					0.970-1.030				
402-404	DC	NL		Height			0.25	0.15	0.10				
	DC	WL		31:27	RO	0.37	0.49			0.944			
				32:58		1.22	42.34	23.27	19.07	0.989			
				33:02		1.21	42.12	23.05	19.07	0.991			
	DC	SN		33:10	RO	0.73	0.14			0.995			
				33:20		1.22	167.73	92.02	75.71	1.000	13C12-HxCDD 678		IS5
				Height			58.04	32.04	26.00				
				33:39	RO	0.44	0.20	0.11	0.25	1.010	13C12-HxCDD 789		RS2
402-404			4	Peaks			252.39						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF				0.88-1.20					0.995-1.048				
408-410	DC	NL		Height			0.92	0.63	0.29				
	DC	WL		34:48	RO	1.67	1.84			0.989			
				35:12		1.05	96.37	49.42	46.95	1.000	1234678-HpCDF		AN
				35:25		1.06	9.82	5.05	4.77	1.007			
				35:36		1.09	59.05	30.86	28.19	1.012			
				36:42		1.01	16.71	8.38	8.33	1.043	1234789-HpCDF		AN

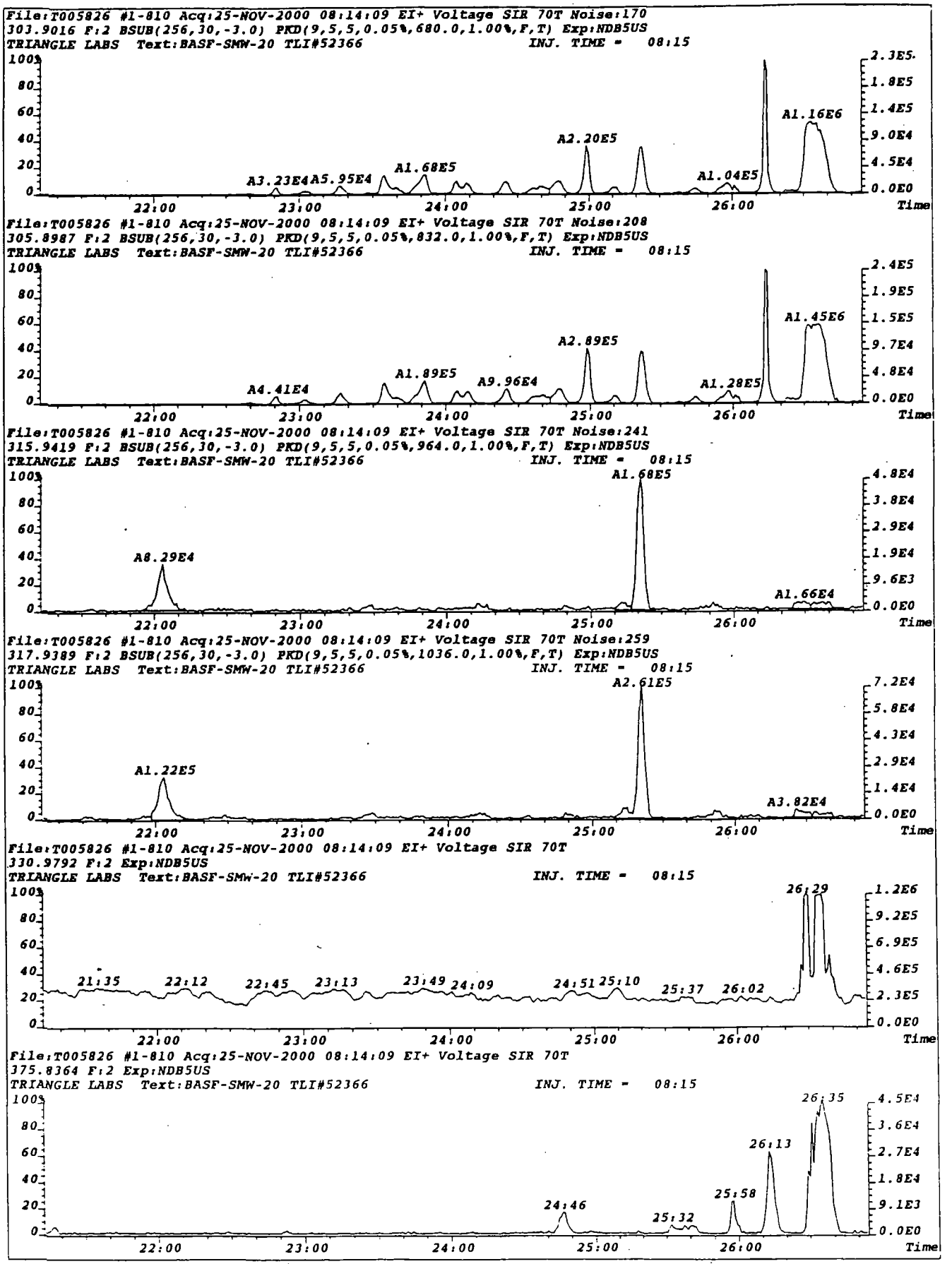
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
408-410			4 Peaks				181.95						
13C12-HpCDF				0.37-0.51						0.943-1.114			
418-420	DC	NL		Height			0.41	0.18	0.23				
			35:11	0.45			34.94	10.83	24.11	1.000	13C12-HpCDF 678	IS6	
				Height			10.76	3.20	7.56				
			36:42	0.43			23.64	7.15	16.49	1.043	13C12-HpCDF 789	SUR4	
418-420			2 Peaks				58.58						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD				0.88-1.20						0.974-1.005			
424-426	DC	NL		Height			0.41	0.21	0.20				
	DC	WL	35:09	1.11			1.92			0.971			
			35:29	1.04			666.30	339.36	326.94	0.980			E
			36:13	1.05			898.57	460.99	437.58	1.000	1234678-HpCDD	AN	E
424-426			2 Peaks				1,564.87						
13C12-HpCDD				0.88-1.20						0.972-1.028			
436-438	DC	NL		Height			0.45	0.29	0.16				
			36:13	1.13			26.42	14.04	12.38	1.000	13C12-HpCDD 678	IS7	
				Height			6.87	3.77	3.10				
436-438			1 Peak				26.42						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF				0.76-1.02						0.899-1.101			
442-444	DC	NL		Height			0.14	0.07	0.07				
	DC	WL	34:52	0.84			0.70			0.876			
	DC	SN	36:13	RO	4.43		0.13			0.910			
	DC	SN	36:23	RO	1.31		0.30			0.915			
	DC	SN	38:40	RO	2.64		0.21			0.972			
			38:52	RO	1.43		0.26	0.20	0.14	0.977			
	DC	SN	39:33	RO	0.25		0.13			0.994			
	DC	SN	39:37	RO	0.44		0.08			0.996			
			39:49	RO	1.40		1.46	1.08	0.77	1.001			
			39:59		0.90		33.51	15.85	17.66	1.005	OCDF	AN	
			41:10	RO	1.24		0.55	0.36	0.29	1.035			
	DC	SN	41:26	RO	1.33		0.23			1.041			
			41:52		0.99		3.40	1.69	1.71	1.052			
	DC	SN	42:22		0.83		0.33			1.065			
	DC	SN	42:28	RO	1.17		0.23			1.067			
	DC	SN	42:35		0.93		0.27			1.070			
	DC	SN	42:49	RO	0.43		0.13			1.076			
	DC	SN	43:09	RO	3.17		0.23			1.085			
	DC	SN	43:15	RO	1.54		0.25			1.087			
	DC	SN	43:29	RO	0.23		0.15			1.093			
			43:44	RO	0.54		0.57	0.27	0.50	1.099			
	DC	WH	43:51	RO	4.00		0.04			1.102			
	DC	WH	44:16	RO	1.57		0.26			1.113			
442-444			6 Peaks				39.75						

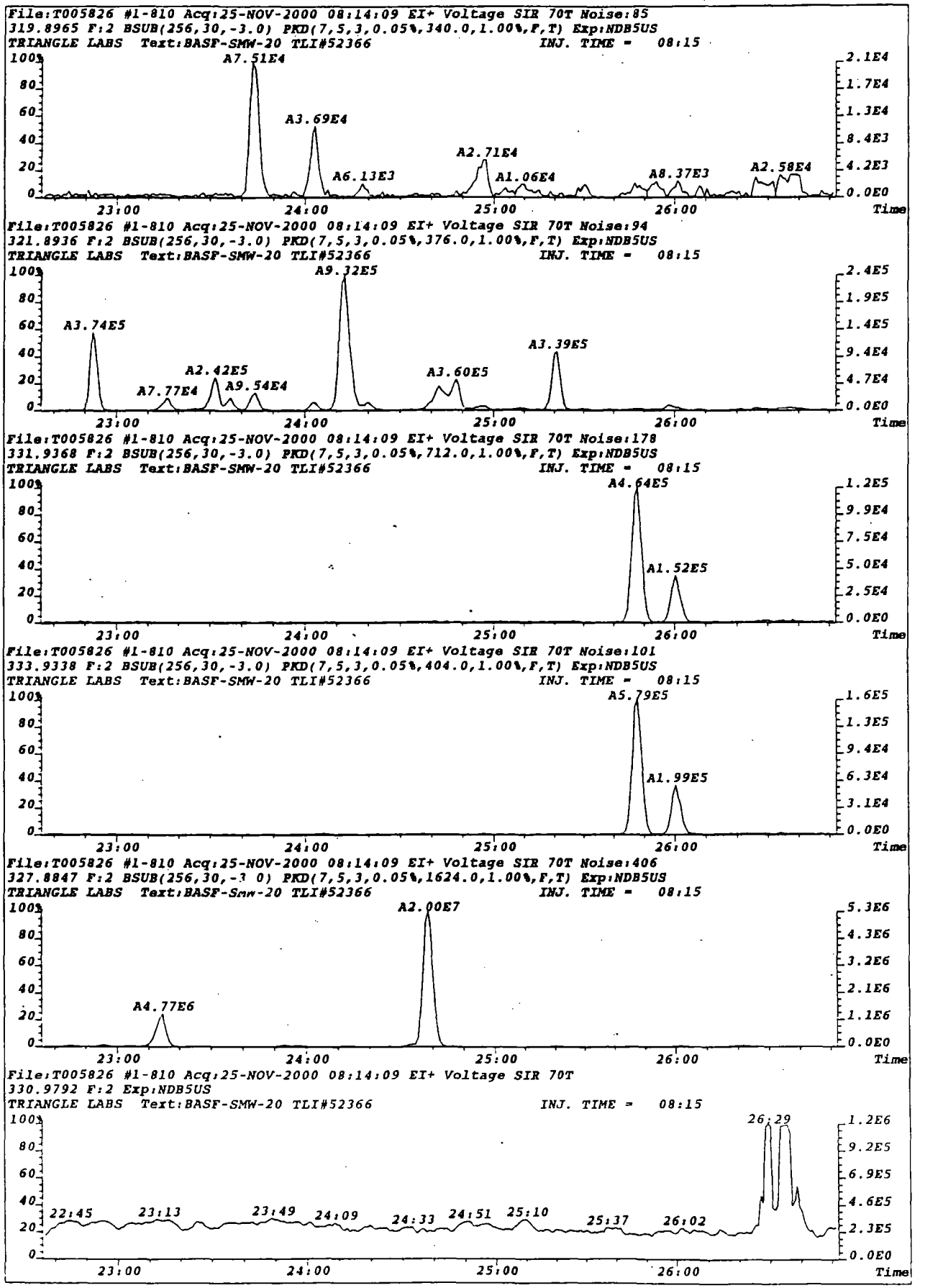
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
OCDD						0.76-1.02							
458-460		DC	NL			Height	0.13	0.06	0.07				
				39:48		0.80	1,108.95	493.59	615.36	1.000	OCDD	AN	E
458-460			1	Peak			1,108.95						
13C12-OCDD						0.76-1.02							
470-472		DC	NL			Height	0.22	0.12	0.10				
				39:47		0.99	21.68	10.77	10.91	1.000	13C12-OCDD	IS8	
						Height	5.00	2.55	2.45				
470-472			1	Peak			21.68						

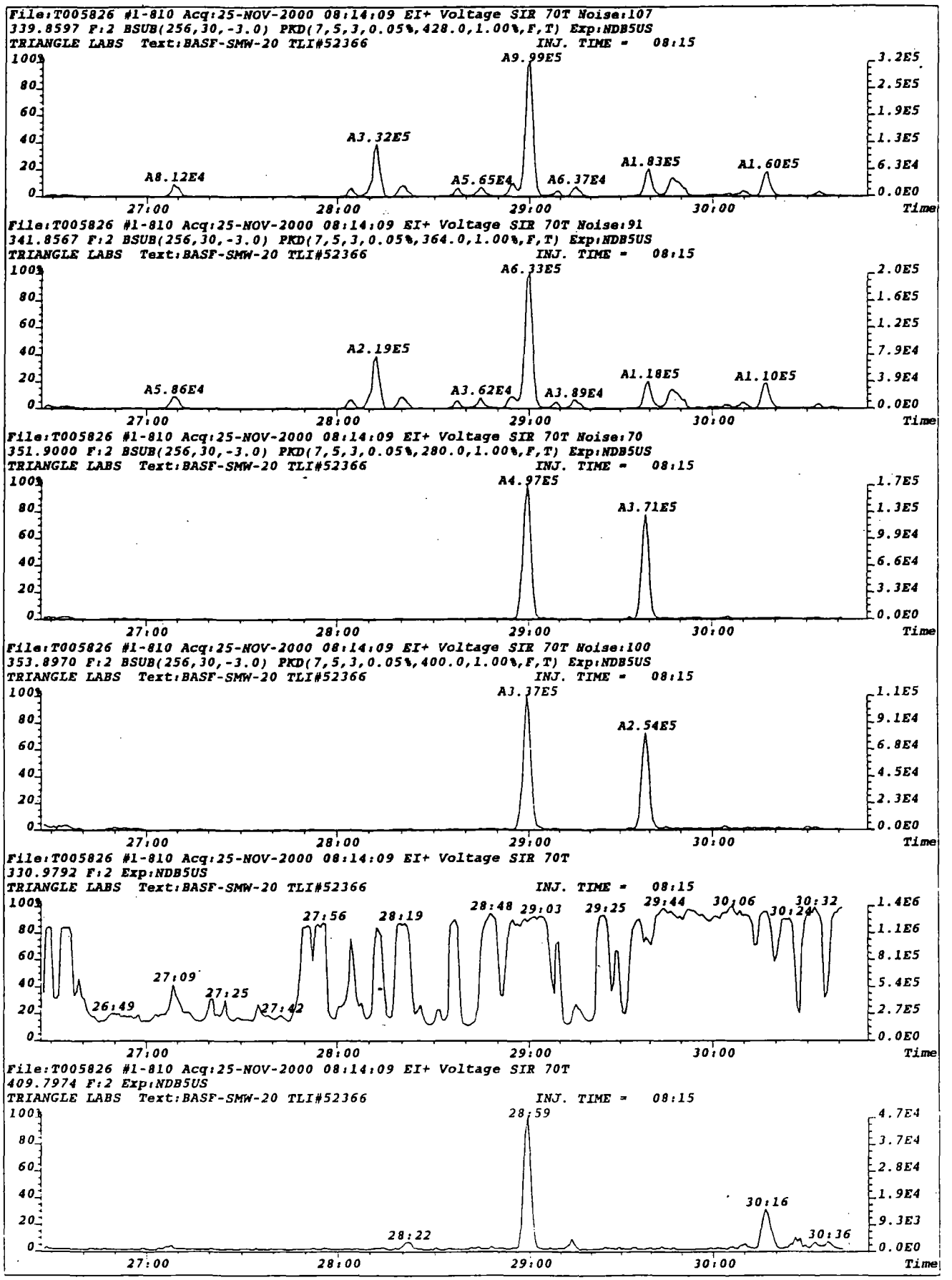
Column Description.....	"Why" Code Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside 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

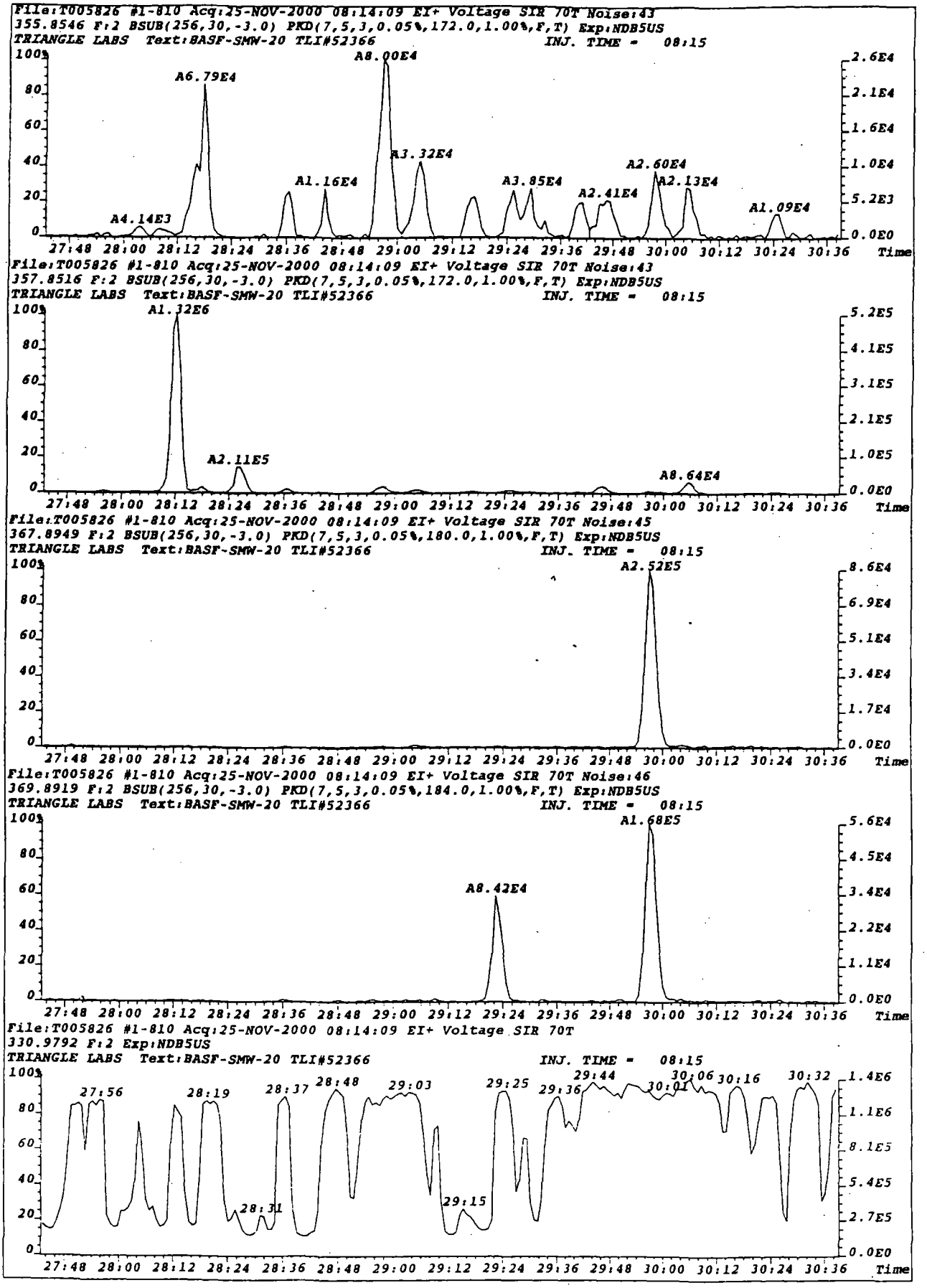
*** End of Report ***

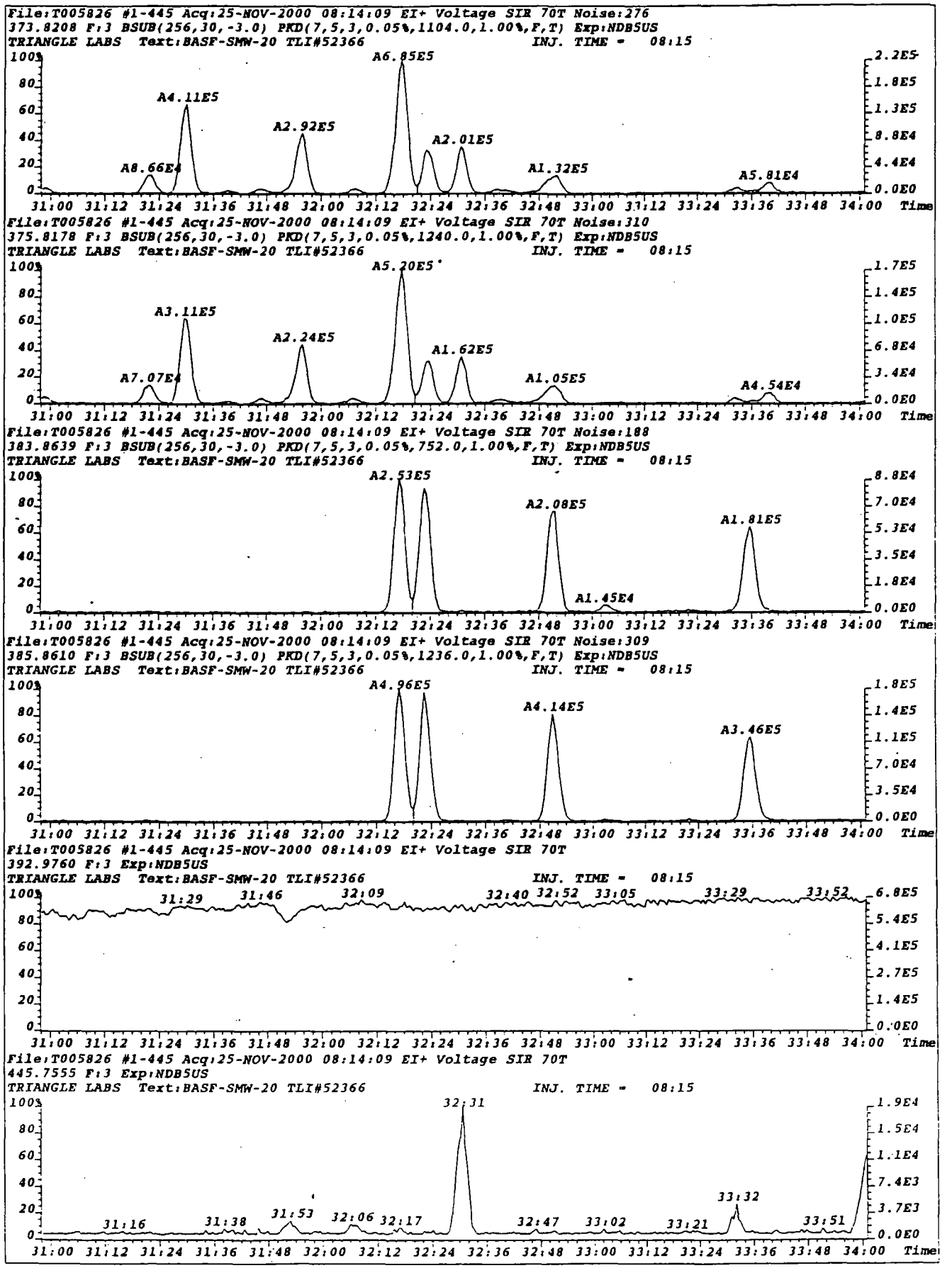

File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
319.8965 F:2 Exp:NDB5US
Sample Text:BASF-SMW-20 TLI#52366
INJ. TIME = 08:15 File Text:BASF-SMW-20 T»
21:11
21:32
21:42
21:58
22:09
22:25
22:38
0.10 × 0.17 = 0.017
Time
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
321.8936 F:2 Exp:NDB5US
Sample Text:BASF-SMW-20 TLI#52366
INJ. TIME = 08:15 File Text:BASF-SMW-20 T»
21:20
21:36
21:57
22:04
22:23
0.08 × 0.29 = 0.0232
Time

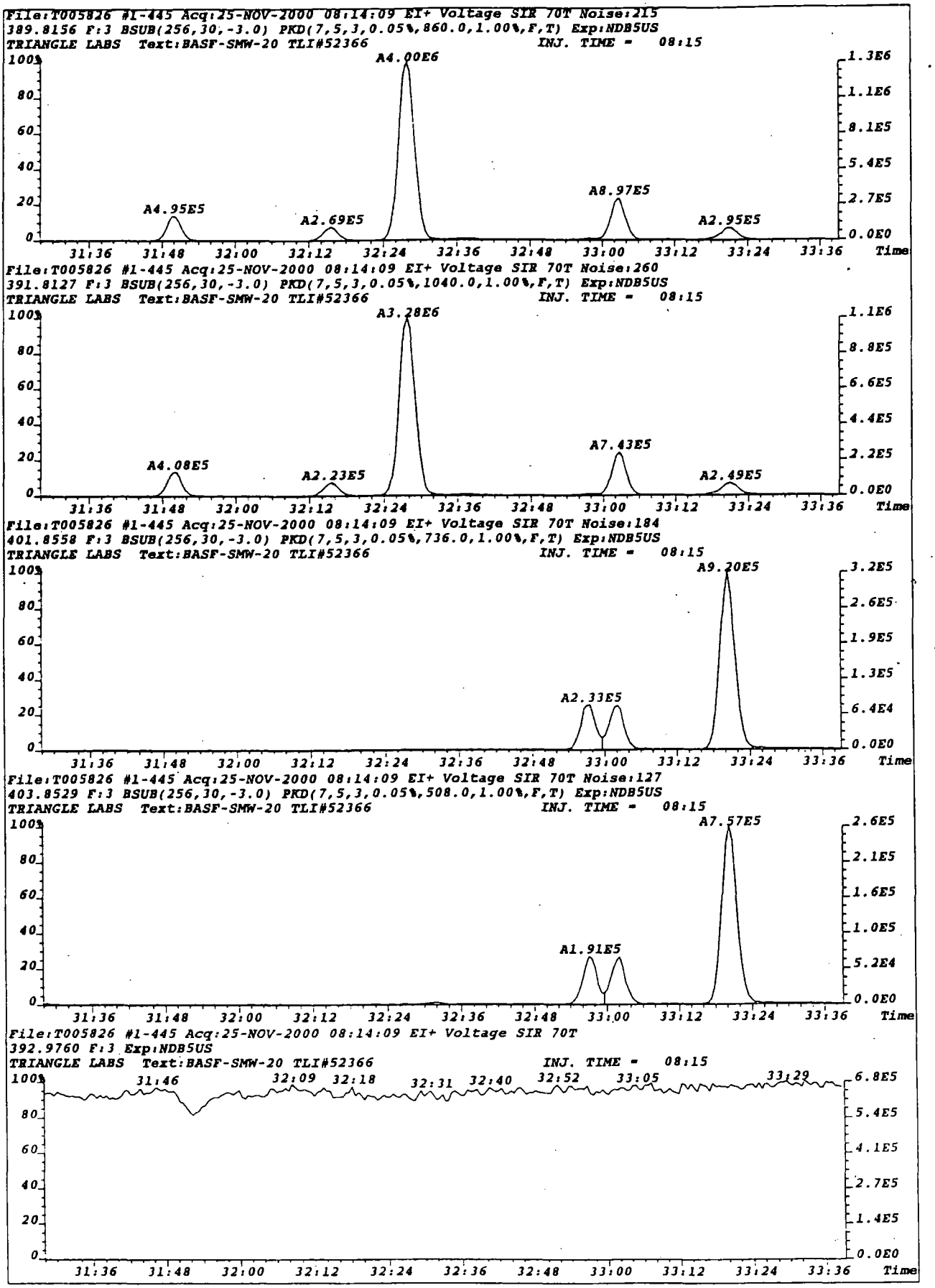

File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:170
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,680.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A3.23E4 A5.95E4 A1.68E5 A2.20E5 A1.04E5 A1.16E6
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:208
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,832.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A4.41E4 A1.89E5 A9.96E4 A2.89E5 A1.28E5 A1.45E6
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:241
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,964.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A8.29E4 A1.68E5 A1.66E4
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:259
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,1036.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A1.22E5 A2.61E5 A3.82E4
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
21:35 22:12 22:45 23:13 23:49 24:09 24:51 25:10 25:37 26:02 26:29
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
24:46 25:32 25:58 26:13 26:35
Time

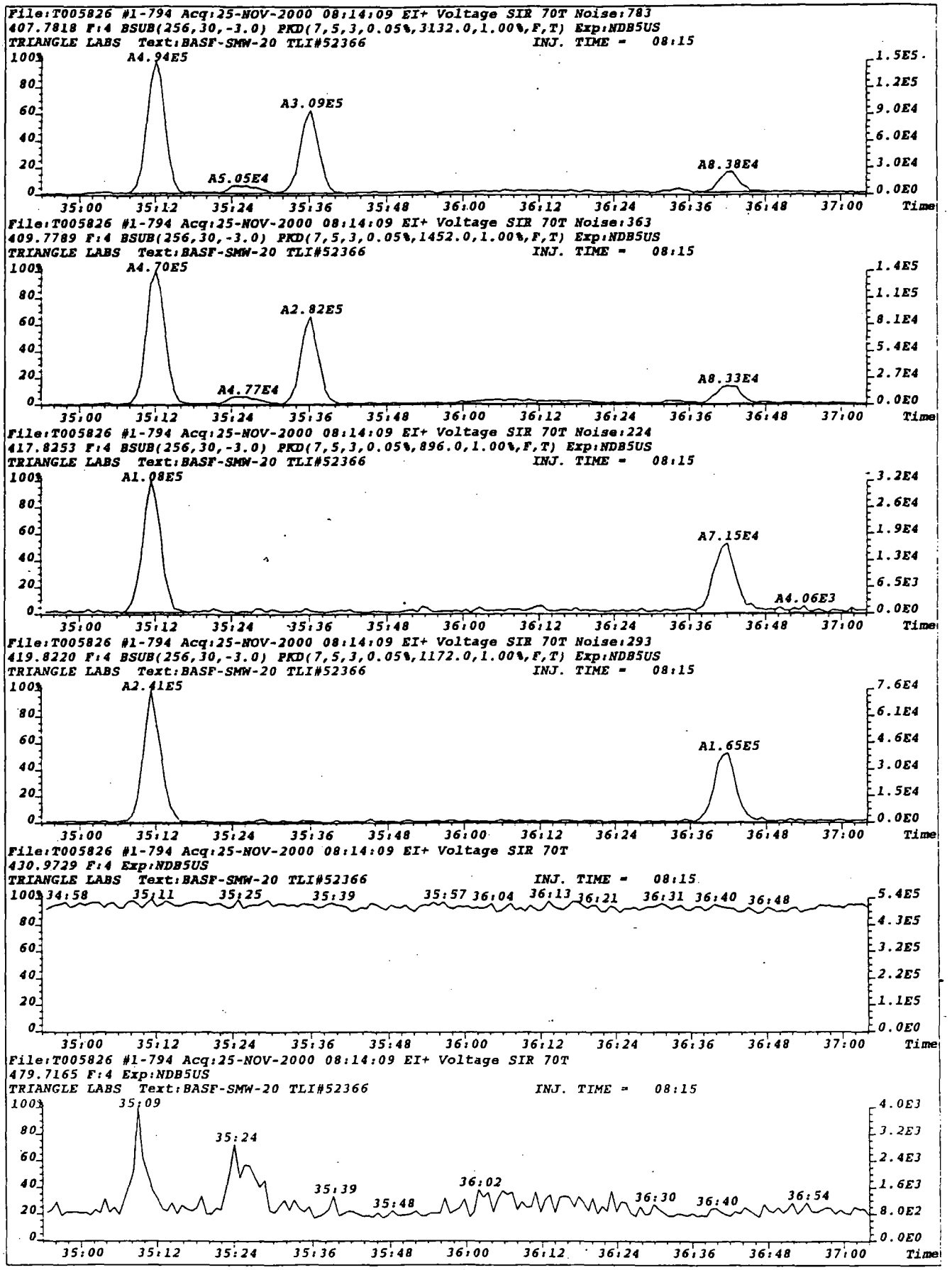

File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:85
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,340.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A7.51E4
A3.69E4
A6.13E3
A2.71E4
A1.06E4
A8.37E3
A2.58E4
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:94
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,376.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A9.32E5
A3.74E5
A7.77E4
A2.42E5
A9.54E4
A3.60E5
A3.39E5
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:178
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,712.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A4.64E5
A1.52E5
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:101
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,404.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A5.79E5
A1.99E5
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:406
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1624.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A2.00E7
A4.77E6
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
26:29
22:45
23:13
23:49
24:09
24:33
24:51
25:10
25:37
26:02
23:00
24:00
25:00
26:00
Time

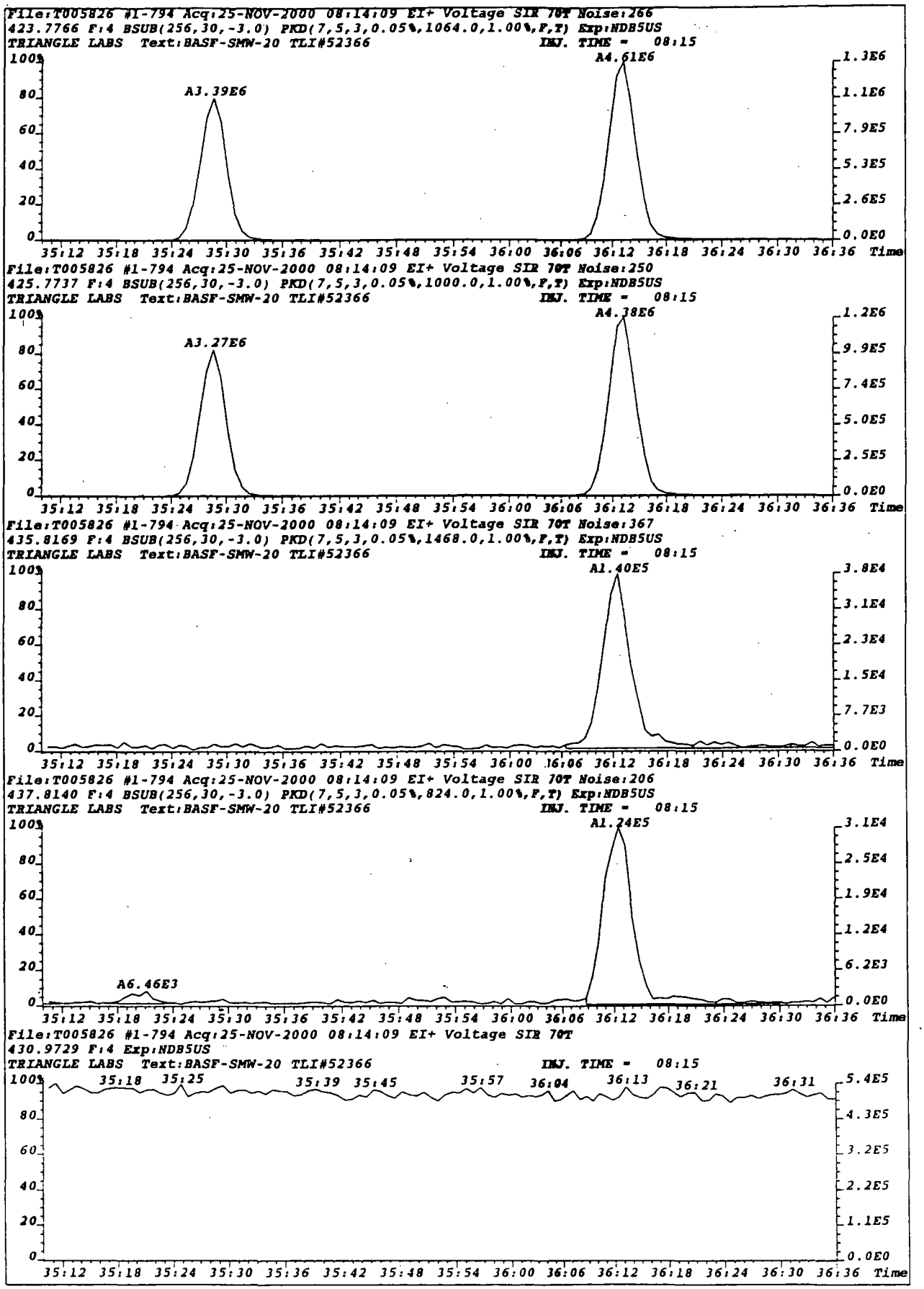

File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:107
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,428.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A9.99E5
A3.32E5
A8.12E4
A5.65E4
A6.37E4
A1.83E5
A1.60E5
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:91
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A6.33E5
A2.19E5
A5.86E4
A3.62E4
A3.89E4
A1.18E5
A1.10E5
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:70
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,280.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A4.97E5
A3.71E5
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:100
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,400.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A3.37E5
A2.54E5
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
26:49
27:09
27:25
27:42
27:56
28:19
28:48
29:03
29:25
29:44
30:06
30:24
30:32
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
28:22
28:59
30:16
30:36
27:00
28:00
29:00
30:00
Time

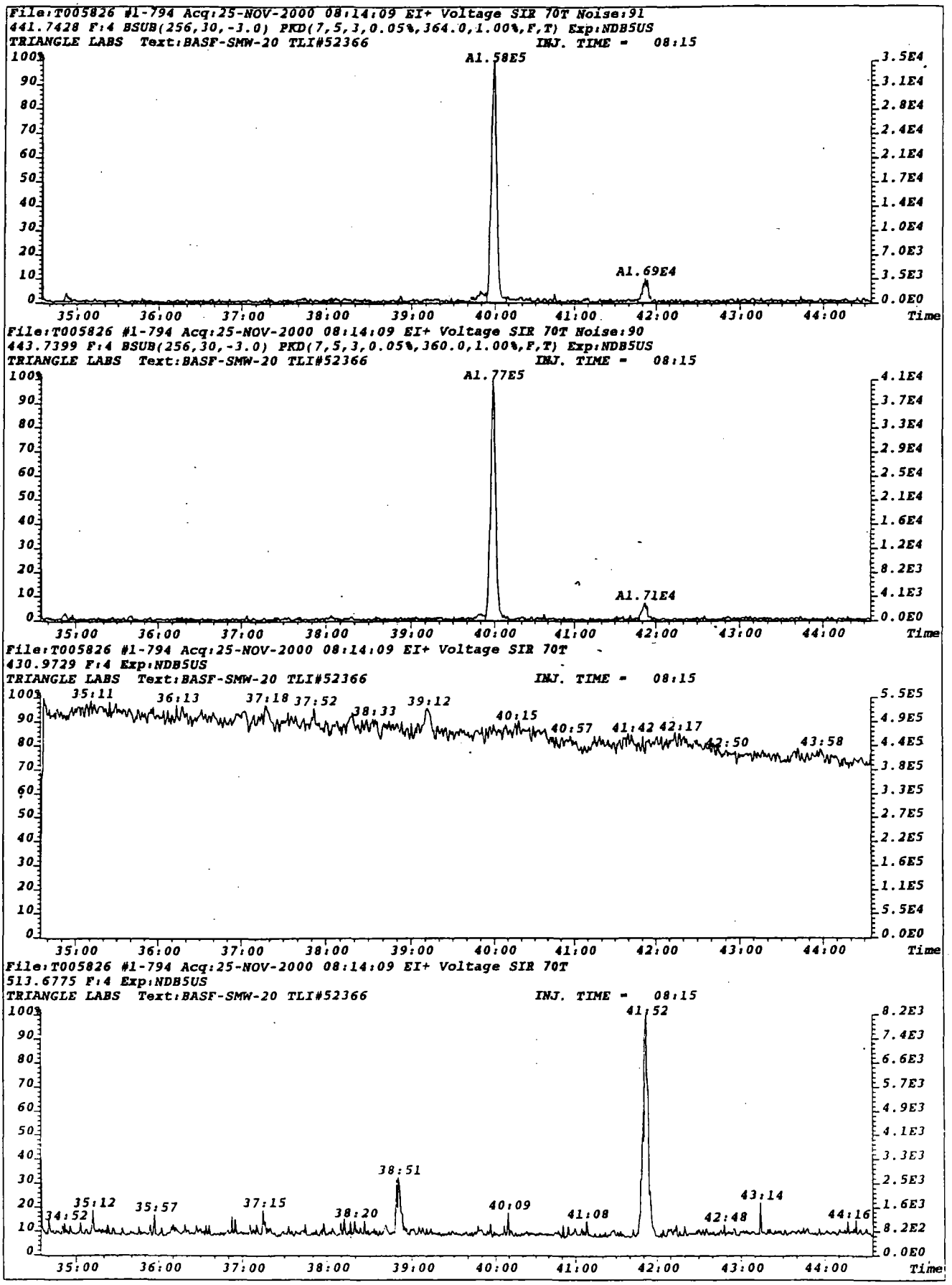

File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:43
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A6.79E4
A8.00E4
A3.32E4
A1.16E4
A3.85E4
A2.60E4
A2.41E4
A2.13E4
A1.09E4
A4.14E3
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:43
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A1.32E6
A2.11E5
A8.64E4
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:45
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,180.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A2.52E5
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:46
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,184.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A1.68E5
A8.42E4
File:T005826 #1-810 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
27:56
28:19
28:37
28:48
29:03
29:25
29:36
29:44
30:01
30:06
30:16
30:32
28:31
29:15
Time


File:T005826 #1-445 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:276
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1104.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A6.85E5
A4.11E5
A2.92E5
A2.01E5
A8.66E4
A1.32E5
A5.81E4
File:T005826 #1-445 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:310
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1240.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A5.20E5
A3.11E5
A2.24E5
A1.62E5
A7.07E4
A1.05E5
A4.54E4
File:T005826 #1-445 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:188
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,752.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A2.53E5
A2.08E5
A1.81E5
A1.45E4
File:T005826 #1-445 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:309
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1236.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A4.96E5
A4.14E5
A3.46E5
File:T005826 #1-445 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
31:29
31:46
32:09
32:40
32:52
33:05
33:29
33:52
File:T005826 #1-445 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
32:31
31:16
31:38
31:53
32:06
32:17
32:47
33:02
33:21
33:32
33:51
31:00 31:12 31:24 31:36 31:48 32:00 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00 Time


File:T005826 #1-445 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:215
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,860.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366
INJ. TIME = 08:15
A4.00E6
A4.95E5
A2.69E5
A8.97E5
A2.95E5
File:T005826 #1-445 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:260
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1040.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366
INJ. TIME = 08:15
A3.28E6
A4.08E5
A2.23E5
A7.43E5
A2.49E5
File:T005826 #1-445 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:184
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,736.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366
INJ. TIME = 08:15
A9.20E5
A2.33E5
File:T005826 #1-445 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:127
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,508.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366
INJ. TIME = 08:15
A7.57E5
A1.91E5
File:T005826 #1-445 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366
INJ. TIME = 08:15
31:46
32:09
32:18
32:31
32:40
32:52
33:05
33:29
Time


File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:783
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,3132.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A4.94E5
A3.09E5
A5.05E4
A8.38E4
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:363
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1452.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A4.70E5
A2.82E5
A4.77E4
A8.33E4
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:224
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,896.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A1.08E5
A7.15E4
A4.06E3
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:293
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A2.41E5
A1.65E5
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
35:09
35:24
35:39
35:48
36:02
36:30
36:40
36:54
Time


File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:266
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1064.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A3.39E6
A4.61E6
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:250
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1000.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A3.27E6
A4.38E6
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:367
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1468.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A1.40E5
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:206
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,824.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A1.24E5
A6.46E3
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
Time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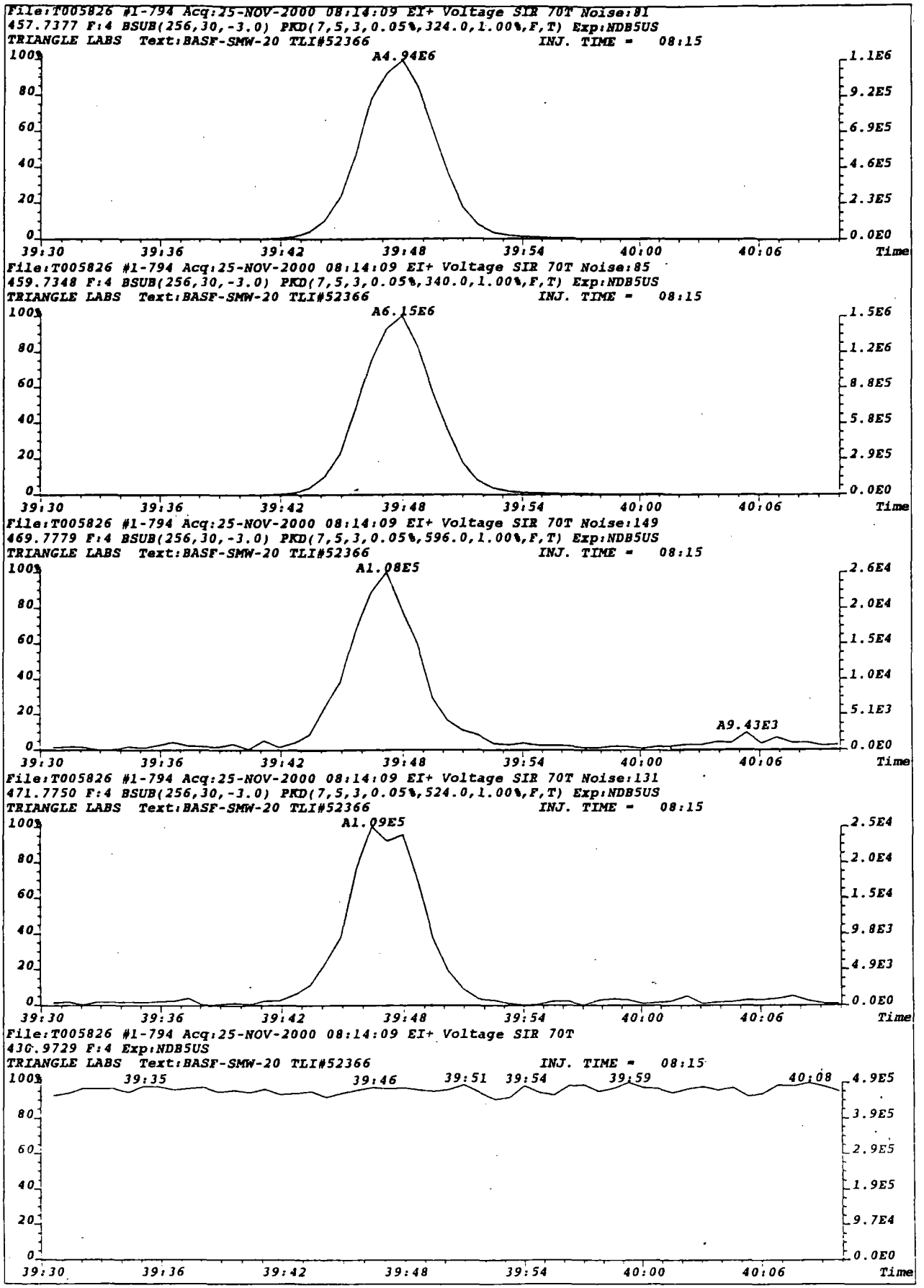
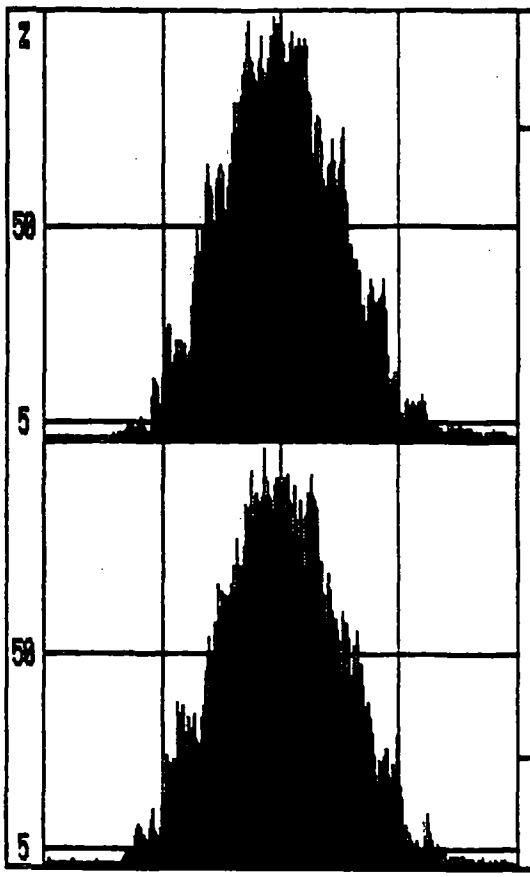
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A1.58E5
A1.69E4
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:90
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,360.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A1.77E5
A1.71E4
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
35:11 36:13 37:18 37:52 38:33 39:12 40:15 40:57 41:42 42:17 42:50 43:58
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
41:52
38:51
34:52 35:12 35:57 37:15 38:20 40:09 41:08 42:48 43:14 44:16
Time


File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:81
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,324.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A4.94E6
1.1E6
9.2E5
6.9E5
4.6E5
2.3E5
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:85
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,340.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A6.15E6
1.5E6
1.2E6
8.8E5
5.8E5
2.9E5
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:149
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,596.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A1.08E5
A9.43E3
2.6E4
2.0E4
1.5E4
1.0E4
5.1E3
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T Noise:131
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,524.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
A1.09E5
2.5E4
2.0E4
1.5E4
9.8E3
4.9E3
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005826 #1-794 Acq:25-NOV-2000 08:14:09 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-20 TLI#52366 INJ. TIME = 08:15
39:35 39:46 39:51 39:54 39:59 40:08
4.9E5
3.9E5
2.9E5
1.9E5
9.7E4
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time

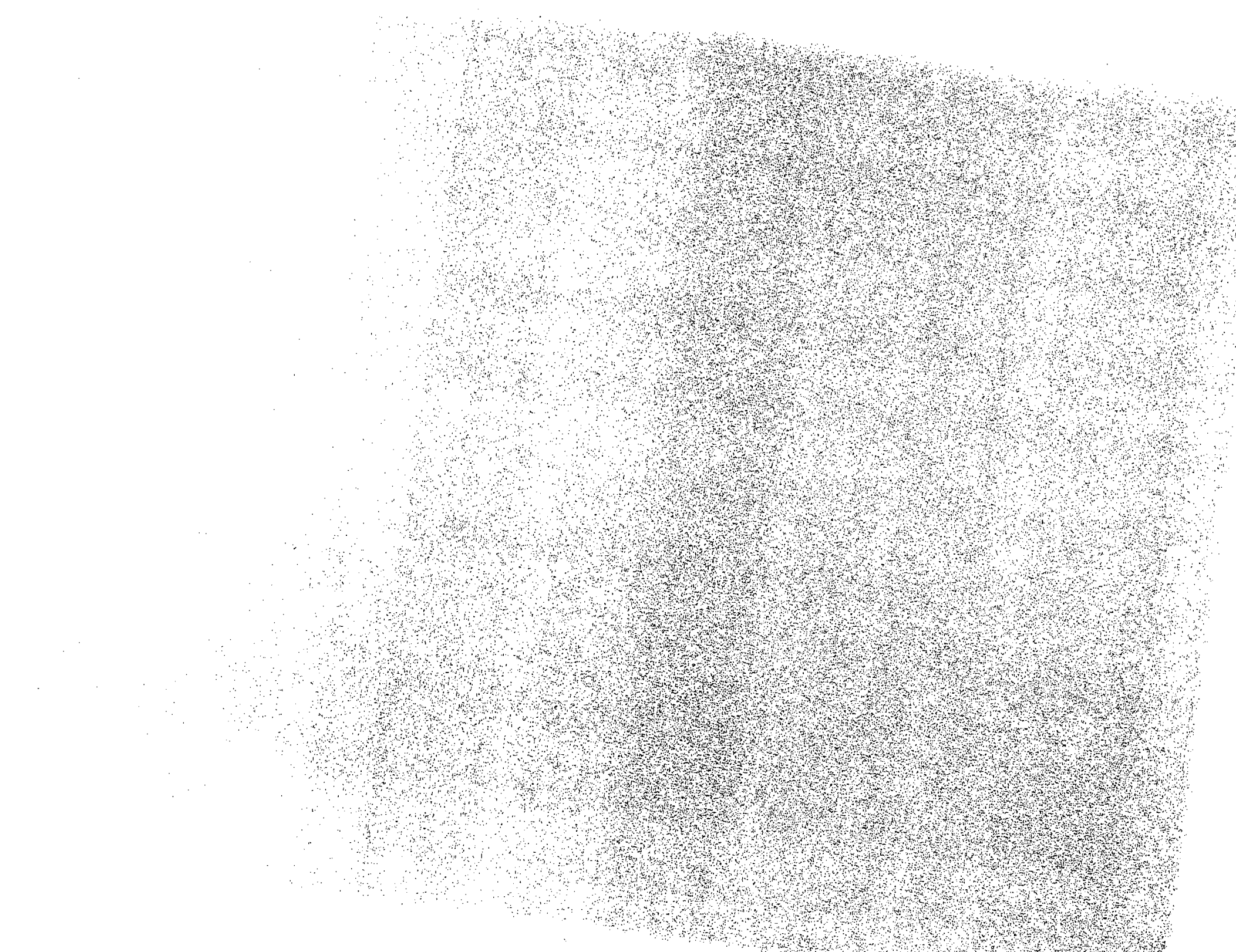


Channel I 330.9792 Peak top
Height .74 volts Span 200 ppm

System file name	NOBIUS
Data file name	A:TN25001
Resolution	10000
Group number	2
Ionization mode	EI+
Switching	VOLTAGE
Ref. masses	292.9825, 416.9760

A	293	J	331	S	368
B	304	K	332	T	370
C	306	L	334	U	376
D	316	M	340	V	410
E	318	N	342		
F	320	O	352		
G	322	P	354		
H	328	Q	356		
I	331	R	358		

Ref. mass 416.9760 Peak top
Height .21 volts Span 200 ppm



TRIANGLE LABS

CALIBRATION DATA

Triangle Laboratories, Inc.
801 Capitola Drive
Durham, NC 27713-4411
919-544-5729
P.O. Box 13485
Research Triangle Park, NC 27709-3485
Fax # 919-544-5491

TRIANGLE LABORATORIES, INC. Date: 07/15/2000
Initial Calibration Summary for TF57140

Analysis Date....: 07/14/2000 Method.....: MIT3
Instrument.....: T

Analytes	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
Total MCDF	1.885	0.000	0%	10:39	6:25	20:25	3.255		1
Total MCDD	1.869	0.000	0%	11:19	7:05	21:05	3.153		1
Total DCDF	0.542	0.000	0%	14:32	13:25	21:25	6.472		1
Total DCDD	0.944	0.000	0%	15:21	14:05	22:05	1.551		1
Total TriCDF	0.785	0.000	0%	20:23	17:25	24:25	0.984		1
Total TriCDD	0.524	0.000	0%	20:29	19:05	25:05	0.949		1
1368-TCDF	1.203	0.050	4%	23:30	25:25	32:25	0.792		6
1278-TCDF	1.051	0.047	4%	26:04			0.799		6
2378-TCDF	1.023	0.028	3%	26:26			0.772		6
TOTAL TCDF	1.023	0.028	3%				0.788		6
1368-TCDD	0.938	0.036	4%	24:43	26:05	33:05	0.788		6
1379-TCDD	0.798	0.024	3%	25:05			0.783		6
2378-TCDD	0.914	0.025	3%	27:06			0.780		6
TOTAL TCDD	0.914	0.025	3%				0.783		6
12378-PeCDF	0.912	0.023	3%	30:12	26:11	34:11	1.508		6
23478-PeCDF	0.925	0.021	2%	30:52			1.499		6
TOTAL PeCDF	0.918	0.019	2%				1.504		6
12378-PeCDD	1.056	0.009	1%	31:12	27:11	35:11	1.602		6
TOTAL PeCDD	1.056	0.009	1%				1.602		6
123478-HxCDF	1.026	0.009	1%	33:36	29:41	37:41	1.262		6
123678-HxCDF	1.075	0.014	1%	33:42			1.266		6
234678-HxCDF	0.972	0.024	2%	34:13			1.262		6
123789-HxCDF	0.795	0.055	7%	35:02			1.262		6
TOTAL HxCDF	0.967	0.020	2%				1.263		6
123478-HxCDD	1.017	0.022	2%	34:19	30:24	38:24	1.244		6
123678-HxCDD	1.016	0.026	3%	34:24			1.233		6
123789-HxCDD	1.027	0.052	5%	34:45			1.230		6
TOTAL HxCDD	1.020	0.032	3%				1.235		6
1234678-HpCDF	1.255	0.016	1%	36:47	32:47	40:47	1.041		6
1234789-HpCDF	0.969	0.076	8%	38:28			1.041		6
TOTAL HpCDF	1.112	0.041	4%				1.041		6
1234678-HpCDD	0.855	0.012	1%	37:54	33:53	41:53	1.031		6
TOTAL HpCDD	0.855	0.012	1%				1.031		6
OCDF	1.100	0.095	9%	42:08	37:53	45:53	0.897		6
OCDD	0.914	0.015	2%	41:54	37:53	45:53	0.852		6

Other Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
37Cl-TCDD	0.846	0.021	2%	27:06	25:05	29:05			6
13C12-PeCDF 234	0.990	0.020	2%	30:51	28:11	32:11	1.471		6
13C12-HxCDF 478	0.985	0.015	2%	33:35			0.506		6
13C12-HxCDF 234	0.912	0.018	2%	34:12			0.505		6
13C12-HxCDF 789	0.670	0.041	6%	35:02			0.503		6
13C12-HxCDD 478	1.035	0.028	3%	34:18			1.195		6
13C12-HpCDF 789	0.778	0.043	6%	38:27	34:47	40:47	0.414		6

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801 Capitola Drive • Durham, North Carolina 27713
Phone: (919) 544-5729 • Fax: (919) 544-5491

Calibration Summary for TF57140

Internal Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-2378-TCDF	1.282	0.051	4%	26:25	25:25	27:25	0.728		6
13C12-2378-TCDD	1.052	0.040	4%	27:05	25:05	29:05	0.796		6
13C12-PeCDF 123	1.199	0.133	11%	30:11	26:11	34:11	1.472		6
13C12-PeCDD 123	0.682	0.075	11%	31:11	27:11	35:11	1.397		6
13C12-HxCDF 678	1.452	0.062	4%	33:41	29:41	37:41	0.504		6
13C12-HxCDD 678	0.908	0.038	4%	34:24	33:24	35:24	1.214		6
13C12-HpCDF 678	0.970	0.014	1%	36:47	34:47	40:47	0.416		6
13C12-HpCDD 678	0.858	0.032	4%	37:53	36:53	38:53	1.021		6
13C12-OCDD	0.698	0.054	8%	41:53	39:53	43:53	0.851		6

Recovery Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-1234-TCDD	1.000	0.000	0%	26:55			0.810		6
13C12-HxCDD 789	1.000	0.000	0%	34:44			1.204		6

*** End of Report ***

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TRIANGLE LABORATORIES, INC. Date: 10/24/2000

Initial Calibration Summary for PF20230

Analysis Date....: 10/23/2000 Method.....: C2NF

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

Analytes	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
2378-TCDF	0.947	0.099	10%	23:51	16:49	27:49	0.767		10
TOTAL TCDF	0.947	0.099	10%				0.767		10
2378-TCDD	0.965	0.125	13%	22:20	18:19	26:19	0.778		10
TOTAL TCDD	0.965	0.125	13%				0.778		10
Other Standards	**RF**	**SD**	**%RSD**	**RT**	**RT/LO**	**RT/HI**	**Ratio1**	**Ratio2**	**N**
37Cl-TCDD	0.992	0.030	3%	22:20	20:19	24:19			10
Internal Standards	**RF**	**SD**	**%RSD**	**RT**	**RT/LO**	**RT/HI**	**Ratio1**	**Ratio2**	**N**
13C12-2378-TCDF	1.565	0.032	2%	23:49	22:49	24:49	0.793		10
13C12-2378-TCDD	1.104	0.026	2%	22:19	20:19	24:19	0.799		10
Recovery Standards	**RF**	**SD**	**%RSD**	**RT**	**RT/LO**	**RT/HI**	**Ratio1**	**Ratio2**	**N**
13C12-1234-TCDD	1.000	0.000	0%	22:38			0.812		10

*** End of Report ***

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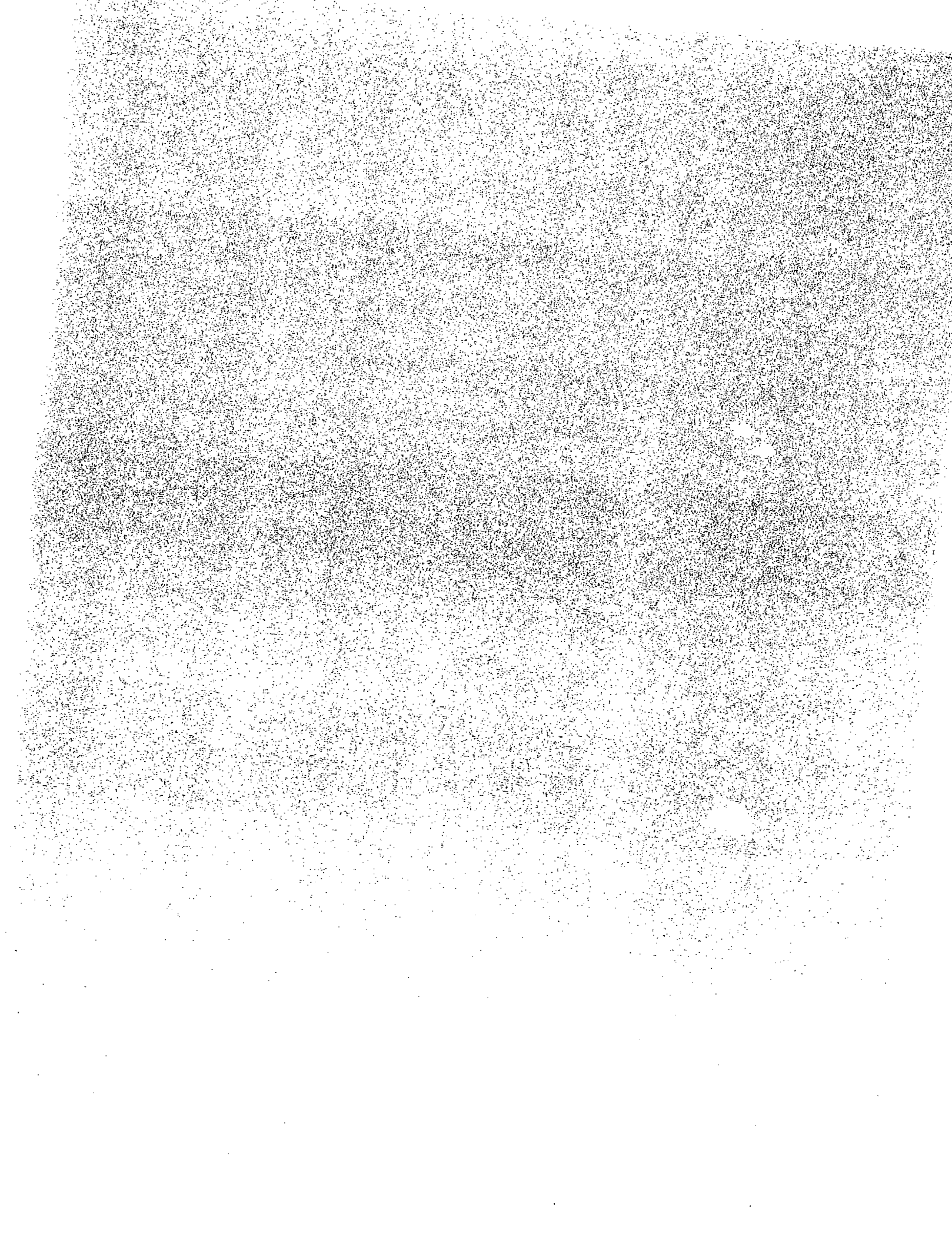
Printed: 05:09 10/24/2000



Date: 12/05/2000 TRIANGLE LABORATORIES, INC.

Continuing Calibration for T005996

Analysis Date.....: 12/05/2000 Method.....: MIT3
Operator.....: BWL Instrument..: T
Init Calibration.: TF57140 Std.Conc....: 10.00
ICal Date.....: 07/14/2000

Analyte Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
Total MCDF	0.000		6:09 20:09			1.885	-1.885	100.0%
Total MCDD	0.000		6:50 20:50			1.869	-1.869	100.0%
Total DCDF	0.000		13:09 21:09			0.542	-0.542	100.0%
Total DCDD	0.000		13:50 21:50			0.944	-0.944	100.0%
Total TriCDF	0.000		17:09 24:09			0.785	-0.785	100.0%
Total TriCDD	0.000		18:50 24:50			0.524	-0.524	100.0%
1368-TCDF	1.064	0.83	23:00 27:59	23:11	0.8864	1.203	-0.139	-11.5%
1278-TCDF	0.911	0.79		25:46	0.9855	1.051	-0.140	-13.4%
2378-TCDF	1.078	0.83		26:10	1.0008	1.023	0.055	5.3%
TOTAL TCDF	1.078	0.82				1.023	0.055	5.3%
1368-TCDD	0.880	0.79	24:15 27:57	24:25	0.9102	0.938	-0.058	-6.2%
1379-TCDD	0.757	0.78		24:47	0.9236	0.798	-0.041	-5.2%
2378-TCDD	0.989	0.79		26:51	1.0007	0.914	0.075	8.2%
TOTAL TCDD	0.989	0.78				0.914	0.075	8.2%
12378-PeCDF	0.925	1.53	27:51 31:45	29:58	1.0007	0.912	0.013	1.4%
23478-PeCDF	0.958	1.52		30:38	1.0227	0.925	0.033	3.5%
TOTAL PeCDF	0.941	1.52				0.918	0.023	2.5%
12378-PeCDD	1.000	1.56	29:02 31:35	30:58	1.0006	1.056	-0.056	-5.3%
TOTAL PeCDD	1.000	1.56				1.056	-0.056	-5.3%
123478-HxCDF	1.086	1.33	32:12 35:01	33:22	0.9976	1.026	0.060	5.9%
123678-HxCDF	1.109	1.28		33:28	1.0006	1.075	0.034	3.2%
234678-HxCDF	1.088	1.29		33:58	1.0155	0.972	0.116	11.9%

Final

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Printed: 13:50 12/05/2000

123789-HxCDF	0.938	1.31		34:47	1.0398	0.795	0.143	18.0%
TOTAL HxCDF	1.055	1.30				0.967	0.088	9.1%
123478-HxCDD	1.121	1.24	32:41 34:37	34:05	0.9974	1.017	0.104	10.2%
123678-HxCDD	1.110	1.24		34:10	1.0000	1.016	0.094	9.2%
123789-HxCDD	1.184	1.23		34:30	1.0097	1.027	0.157	15.3%
TOTAL HxCDD	1.138	1.24				1.020	0.118	11.6%
1234678-HpCDF	1.305	1.07	36:20 38:19	36:30	1.0000	1.255	0.050	4.0%
1234789-HpCDF	1.071	1.08		38:09	1.0452	0.969	0.102	10.5%
TOTAL HpCDF	1.188	1.08				1.112	0.076	6.8%
1234678-HpCDD	0.898	1.02	36:37 37:45	37:36	1.0005	0.855	0.043	5.0%
TOTAL HpCDD	0.898	1.02				0.855	0.043	5.0%
OCDF	1.220	0.89	37:31 45:31	41:45	1.0055	1.100	0.120	10.9%
OCDD	0.994	0.86	37:31 45:31	41:31	1.0000	0.914	0.080	8.7%

Other Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
37Cl-TCDD	0.902		24:50 28:50	26:51	1.0007	0.846	0.056	6.6%
13C12-PeCDF 234	1.012	1.48	25:57 33:57	30:38	1.0227	0.990	0.022	2.2%
13C12-HxCDF 478	0.996	0.50	29:27 37:27	33:21	0.9970	0.985	0.011	1.1%
13C12-HxCDF 234	0.967	0.51		33:57	1.0149	0.912	0.055	6.0%
13C12-HxCDF 789	0.761	0.51		34:46	1.0395	0.670	0.091	13.5%
13C12-HxCDD 478	1.077	1.21	33:10 35:10	34:04	0.9971	1.035	0.042	4.1%
13C12-HpCDF 789	0.823	0.43	34:30 40:30	38:08	1.0447	0.778	0.045	5.8%

Internal Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-2378-TCDF	1.439	0.74	25:09 27:09	26:09	1.0000	1.282	0.157	12.2%
13C12-2378-TCDD	1.108	0.80	24:50 28:50	26:50	1.0000	1.052	0.056	5.3%

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13C12-PeCDF 123	1.216	1.47	25:57 33:57	29:57	1.0000	1.199	0.017	1.4%
13C12-PeCDD 123	0.748	1.46	26:57 34:57	30:57	1.0000	0.682	0.066	9.7%
13C12-HxCDF 678	1.283	0.51	29:27 37:27	33:27	1.0000	1.452	-0.169	-11.6%
13C12-HxCDD 678	0.822	1.22	33:10 35:10	34:10	1.0000	0.908	-0.086	-9.4%
13C12-HpCDF 678	0.907	0.44	34:30 40:30	36:30	1.0000	0.970	-0.063	-6.5%
13C12-HpCDD 678	0.832	1.01	36:35 38:35	37:35	1.0000	0.858	-0.026	-3.1%
13C12-OCDD	0.614	0.85	41:20 41:40	41:31	1.0000	0.698	-0.084	-12.0%

Recovery Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-1234-TCDD	1.000	0.79	24:50 28:50	26:40	0.9940	1.000	0.000	0.0%
13C12-HxCDD 789	1.000	1.21	33:10 35:10	34:29	1.0091	1.000	0.000	0.0%

QC Front End Check: 1.1694 TetraRS/HexaRS: 1.048

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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	23:11		0.83	200.49	90.66	109.83	0.886	1368-TCDF	AN
	25:46		0.79	171.52	75.74	95.78	0.986	1278-TCDF	AN
	26:10		0.83	202.97	92.06	110.91	1.001	2378-TCDF	AN
304-306			3 Peaks						
13C12-TCDF			0.65-0.89						
316-318	26:09		0.74	1,883.68	802.48	1,081.20	1.000	13C12-2378-TCDF	IS0
316-318			1 Peak						
---------- Above: TCDF / TCDD Follows ----------									
TCDD			0.65-0.89						
320-322	24:25		0.79	127.71	56.18	71.53	0.910	1368-TCDD	AN
	24:47		0.78	109.78	48.18	61.60	0.924	1379-TCDD	AN
	26:51		0.79	143.46	63.10	80.36	1.001	2378-TCDD	AN
320			3 Peaks						
37Cl-TCDD									
328	26:51			130.90	130.90		1.001	37Cl-TCDD	CLS
328-330			1 Peak						
13C12-TCDD			0.65-0.89						
332-334	26:40		0.79	1,309.40	579.39	730.01	0.994	13C12-1234-TCDD	RS1
	26:50		0.80	1,450.93	644.22	806.71	1.000	13C12-2378-TCDD	IS1
332-334			2 Peaks						
---------- Above: TCDD / PeCDF Follows ----------									
PeCDF			1.32-1.78						
340-342	29:58		1.53	736.57	444.93	291.64	1.001	12378-PeCDF	AN
	30:38		1.52	762.44	459.76	302.68	1.023	23478-PeCDF	AN
340-342			2 Peaks						
13C12-PeCDF			1.32-1.78						
352-354	29:57		1.47	1,592.41	948.44	643.97	1.000	13C12-PeCDF 123	IS2
	30:38		1.48	1,610.73	961.52	649.21	1.023	13C12-PeCDF 234	SUR1
352-354			2 Peaks						
---------- Above: PeCDF / PeCDD Follows ----------									
PeCDD			1.32-1.78						
356-358	30:58		1.56	489.91	298.46	191.45	1.001	12378-PeCDD	AN
356-358			1 Peak						
13C12-PeCDD			1.32-1.78						
368-370	30:57		1.46	980.04	581.44	398.60	1.000	13C12-PeCDD 123	IS3
368-370			1 Peak						
---------- Above: PeCDD / HxCDF Follows ----------									

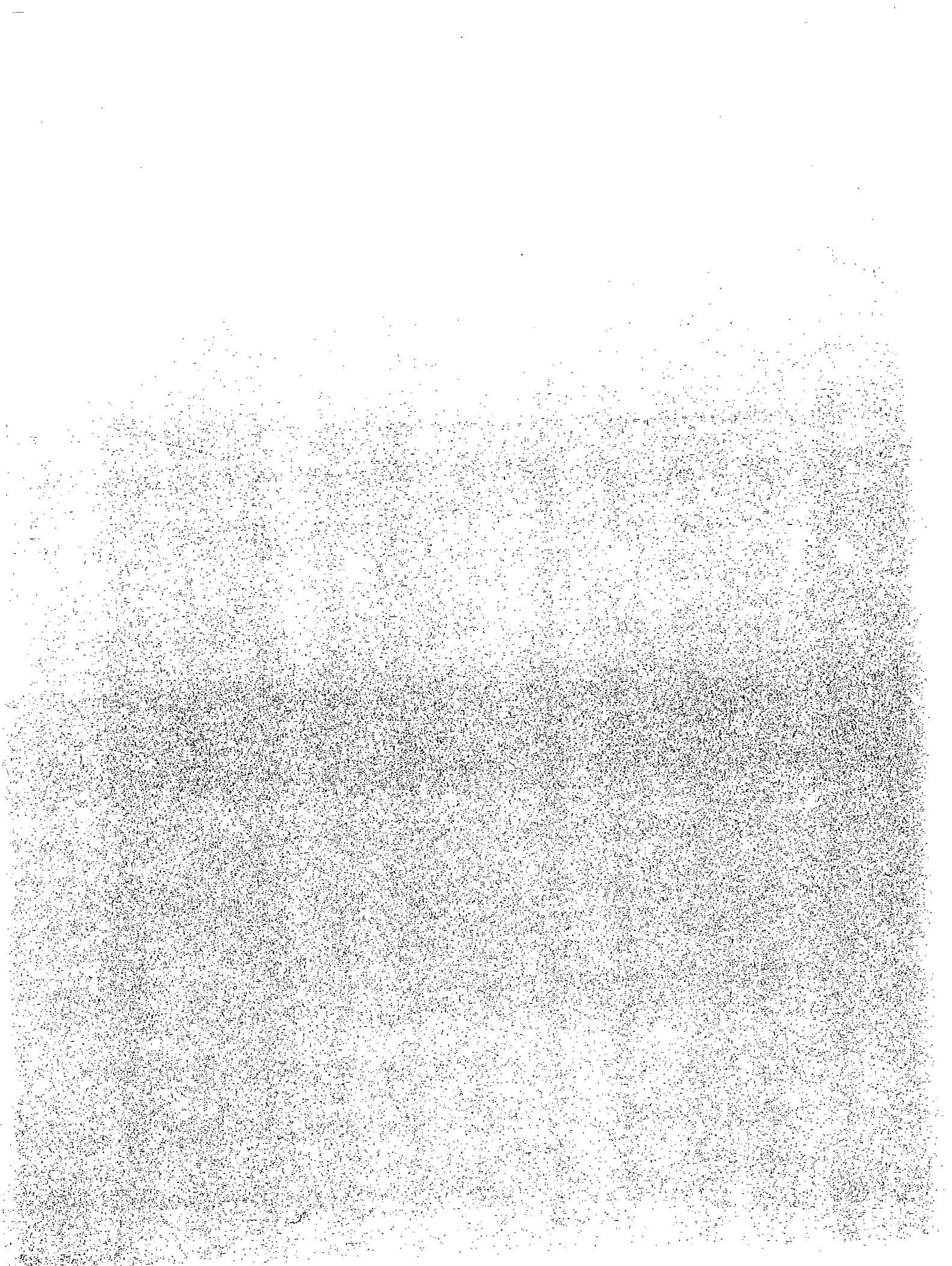
Compound/ M_Z....	..RT.	OK	Ratio	Total.Area...	Area.Peak.1..	Area.Peak.2..	Rel.RT	Compound.Name..	ID..
HxCDF			1.05-1.43						
374-376	33:22		1.33	703.78	401.50	302.28	0.998	123478-HxCDF	AN
	33:28		1.28	718.79	404.12	314.67	1.001	123678-HxCDF	AN
	33:58		1.29	704.75	397.28	307.47	1.016	234678-HxCDF	AN
	34:47		1.31	608.00	345.00	263.00	1.040	123789-HxCDF	AN
374-376			4 Peaks						
13C12-HxCDF			0.43-0.59						
384-386	33:21		0.50	1,290.41	432.87	857.54	0.997	13C12-HxCDF 478	SUR2
	33:27		0.51	1,295.99	435.68	860.31	1.000	13C12-HxCDF 678	IS4
	33:57		0.51	1,252.58	423.64	828.94	1.015	13C12-HxCDF 234	ALT2
	34:46		0.51	985.80	331.18	654.62	1.040	13C12-HxCDF 789	ALT1
384-386			4 Peaks						
---------- Above: HxCDF / HxCDD Follows ----------									
HxCDD			1.05-1.43						
390-392	34:05		1.24	465.32	257.17	208.15	0.997	123478-HxCDD	AN
	34:10		1.24	460.72	255.40	205.32	1.000	123678-HxCDD	AN
	34:30		1.23	491.57	271.31	220.26	1.010	123789-HxCDD	AN
390-392			3 Peaks						
13C12-HxCDD			1.05-1.43						
402-404	34:04		1.21	894.53	489.77	404.76	0.997	13C12-HxCDD 478	SUR3
	34:10		1.22	830.48	455.84	374.64	1.000	13C12-HxCDD 678	IS5
	34:29		1.21	1,010.05	552.70	457.35	1.009	13C12-HxCDD 789	RS2
402-404			3 Peaks						
---------- Above: HxCDD / HpCDF Follows ----------									
HpCDF			0.88-1.20						
408-410	36:30		1.07	597.65	309.29	288.36	1.000	1234678-HpCDF	AN
	38:09		1.08	490.53	254.87	235.66	1.045	1234789-HpCDF	AN
408-410			2 Peaks						
13C12-HpCDF			0.37-0.51						
418-420	36:30		0.44	915.96	278.30	637.66	1.000	13C12-HpCDF 678	IS6
	38:08		0.43	753.62	228.25	525.37	1.045	13C12-HpCDF 789	SUR4
418-420			2 Peaks						
---------- Above: HpCDF / HpCDD Follows ----------									
HpCDD			0.88-1.20						
424-426	37:36		1.02	377.06	190.05	187.01	1.001	1234678-HpCDD	AN
424-426			1 Peak						
13C12-HpCDD			0.88-1.20						
436-438	37:35		1.01	840.04	421.87	418.17	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	41:45		0.89	757.01	357.09	399.92	1.006	OCDF	AN
442-444			1 Peak						
OCDD			0.76-1.02						
458-460	41:31		0.86	616.60	285.75	330.85	1.000	OCDD	AN
458-460			1 Peak						
13C12-OCDD			0.76-1.02						
470-472	41:31		0.85	1,240.76	570.65	670.11	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: 12/05/2000 TRIANGLE LABORATORIES, INC.

Continuing Calibration for P004403

Analysis Date....: 12/05/2000 Method.....: C2NF
Operator.....: DFS Instrument..: P
Init Calibration.: PF20230 Std.Conc....: 5.00
ICal Date.....: 10/23/2000
Analysis Time....: 15:09 GC Column...: DB-225

Analyte Summary						ICal	Delta	
Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	RF	RF	%D
2378-TCDF	0.845	0.73	18:50 26:22	23:49	1.0008	0.947	-0.102	-10.8%
TOTAL TCDF	0.845	0.73				0.947	-0.102	-10.8%
2378-TCDD	0.834	0.79	19:38 25:30	22:17	1.0013	0.965	-0.131	-13.6%
TOTAL TCDD	0.834	0.79				0.965	-0.131	-13.6%

Other Standard Summary						ICal	Delta	
Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	RF	RF	%D
37Cl-TCDD	1.003		20:15 24:15	22:17	1.0013	0.992	0.011	1.1%

Internal Standard Summary						ICal	Delta	
Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	RF	RF	%D
13C12-2378-TCDF	1.473	0.78	22:48 24:48	23:48	1.0000	1.565	-0.092	-5.9%
13C12-2378-TCDD	1.071	0.81	20:15 24:15	22:15	1.0000	1.104	-0.033	-3.0%

Recovery Standard Summary						ICal	Delta	
Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	RF	RF	%D
13C12-1234-TCDD	1.000	0.81		22:37	1.0166	1.000	0.000	0.0%

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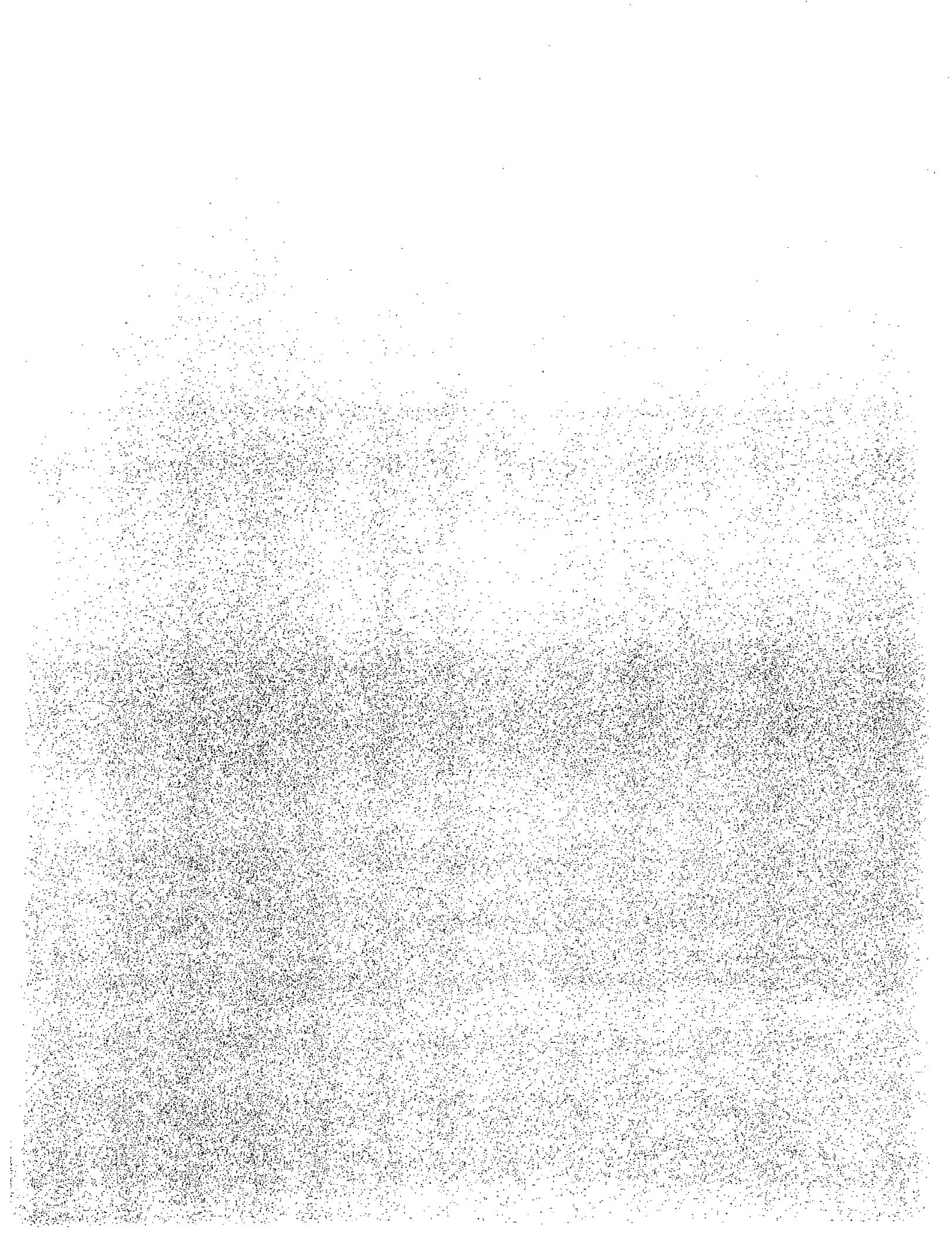
Printed: 17:38 12/05/2000

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	23:49		0.73	55.37	23.41	31.96	1.001	2378-TCDF	AN
304-306			1 Peak						
13C12-TCDF			0.65-0.89						
316-318	23:48		0.78	1,310.34	575.61	734.73	1.000	13C12-2378-TCDF	IS0
316-318			1 Peak						
---------- Above: TCDF / TCDD Follows ----------									
TCDD			0.65-0.89						
320-322	22:17		0.79	39.71	17.56	22.15	1.001	2378-TCDD	AN
320			1 Peak						
37Cl-TCDD									
328	22:17			47.77	47.77		1.001	37Cl-TCDD	SUR1
328-330			1 Peak						
13C12-TCDD			0.65-0.89						
332-334	22:15		0.81	952.61	427.33	525.28	1.000	13C12-2378-TCDD	IS1
	22:37		0.81	889.75	398.40	491.35	1.017	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 ***



Date: 11/25/2000 TRIANGLE LABORATORIES, INC.

Continuing Calibration for T005815

Analysis Date....: 11/24/2000 Method.....: MIT3

Operator.....: MVL Instrument..: T

Init Calibration.: TF57140 Std.Conc....: 10.00

ICal Date.....: 07/14/2000

Analyte Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
Total MCDF	0.000		4:40 18:40			1.885	-1.885	100.0%
Total MCDD	0.000		5:23 19:23			1.869	-1.869	100.0%
Total DCDF	0.000		11:40 19:40			0.542	-0.542	100.0%
Total DCDD	0.000		12:23 20:23			0.944	-0.944	100.0%
Total TriCDF	0.000		15:40 22:40			0.785	-0.785	100.0%
Total TriCDD	0.000		17:23 23:23			0.524	-0.524	100.0%
1368-TCDF	1.036	0.77	21:13 26:34	21:26	0.8687	1.203	-0.167	-13.9%
1278-TCDF	0.953	0.79		24:16	0.9838	1.051	-0.098	-9.3%
2378-TCDF	1.051	0.78		24:41	1.0004	1.023	0.028	2.8%
TOTAL TCDF	1.051	0.78				1.023	0.028	2.8%
1368-TCDD	0.773	0.81	22:36 26:32	22:48	0.8983	0.938	-0.165	-17.6%
1379-TCDD	0.679	0.76		23:14	0.9153	0.798	-0.119	-15.0%
2378-TCDD	0.989	0.78		25:25	1.0016	0.914	0.075	8.2%
TOTAL TCDD	0.989	0.78				0.914	0.075	8.2%
12378-PeCDF	0.946	1.54	26:27 30:29	28:40	1.0007	0.912	0.034	3.8%
23478-PeCDF	0.907	1.54		29:21	1.0244	0.925	-0.018	-1.9%
TOTAL PeCDF	0.927	1.54				0.918	0.009	1.0%
12378-PeCDD	1.096	1.57	27:43 30:19	29:43	1.0007	1.056	0.040	3.8%
TOTAL PeCDD	1.096	1.57				1.056	0.040	3.8%
123478-HxCDF	1.018	1.29	30:58 33:41	32:08	0.9972	1.026	-0.008	-0.7%
123678-HxCDF	1.067	1.29		32:14	1.0003	1.075	-0.008	-0.7%
234678-HxCDF	0.976	1.28		32:43	1.0155	0.972	0.004	0.4%

Final

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Printed: 01:32 11/25/2000

123789-HxCDF	0.806	1.30		33:28	1.0388	0.795	0.011	1.4%
TOTAL HxCDF	0.967	1.29				0.967	0.000	0.0%
123478-HxCDD	1.059	1.26	31:28 33:19	32:50	0.9979	1.017	0.042	4.1%
123678-HxCDD	1.104	1.23		32:54	1.0000	1.016	0.088	8.7%
123789-HxCDD	1.056	1.25		33:13	1.0097	1.027	0.029	2.9%
TOTAL HxCDD	1.073	1.25				1.020	0.053	5.2%
1234678-HpCDF	1.301	1.05	34:54 36:44	35:04	1.0000	1.255	0.046	3.7%
1234789-HpCDF	0.957	1.05		36:36	1.0436	0.969	-0.012	-1.3%
TOTAL HpCDF	1.129	1.05				1.112	0.017	1.5%
1234678-HpCDD	0.913	1.06	35:10 36:16	36:06	1.0000	0.855	0.058	6.8%
TOTAL HpCDD	0.913	1.06				0.855	0.058	6.8%
OCDF	1.252	0.90	35:40 43:40	39:52	1.0050	1.100	0.152	13.8%
OCDD	0.985	0.84	35:40 43:40	39:41	1.0003	0.914	0.071	7.8%

Other Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
37Cl-TCDD	0.901		23:23 27:23	25:24	1.0008	0.846	0.055	6.5%
13C12-PeCDF 234	0.932	1.52	24:39 32:39	29:21	1.0244	0.990	-0.058	-5.9%
13C12-HxCDF 478	0.940	0.52	28:13 36:13	32:07	0.9969	0.985	-0.045	-4.6%
13C12-HxCDF 234	0.882	0.50		32:42	1.0149	0.912	-0.030	-3.3%
13C12-HxCDF 789	0.657	0.51		33:27	1.0382	0.670	-0.013	-2.0%
13C12-HxCDD 478	1.004	1.23	31:54 33:54	32:48	0.9970	1.035	-0.031	-3.0%
13C12-HpCDF 789	0.733	0.42	33:04 39:04	36:35	1.0431	0.778	-0.045	-5.7%

Internal Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-2378-TCDF	1.409	0.75	23:40 25:40	24:40	1.0000	1.282	0.127	9.9%
13C12-2378-TCDD	1.153	0.79	23:23 27:23	25:23	1.0000	1.052	0.101	9.6%

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13C12-PeCDF 123	1.293	1.49	24:39 32:39	28:39	1.0000	1.199	0.094	7.8%
13C12-PeCDD 123	0.670	1.43	25:42 33:42	29:42	1.0000	0.682	-0.012	-1.8%
13C12-HxCDF 678	1.648	0.50	28:13 36:13	32:13	1.0000	1.452	0.196	13.5%
13C12-HxCDD 678	0.964	1.23	31:54 33:54	32:54	1.0000	0.908	0.056	6.2%
13C12-HpCDF 678	0.965	0.43	33:04 39:04	35:04	1.0000	0.970	-0.005	-0.5%
13C12-HpCDD 678	0.743	1.04	35:06 37:06	36:06	1.0000	0.858	-0.115	-13.4%
13C12-OCDD	0.490	0.88	39:30 39:50	39:40	1.0000	0.698	-0.208	-29.9%

Recovery Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-1234-TCDD	1.000	0.80	23:23 27:23	25:12	0.9929	1.000	0.000	0.0%
13C12-HxCDD 789	1.000	1.21	31:54 33:54	33:12	1.0091	1.000	0.000	0.0%

QC Front End Check: 1.7509 TetraRS/HexaRS: 1.209

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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	21:26		0.77	47.25	20.57	26.68	0.869	1368-TCDF	AN
	24:16		0.79	43.46	19.22	24.24	0.984	1278-TCDF	AN
	24:41		0.78	47.93	20.95	26.98	1.000	2378-TCDF	AN
304-306		3 Peaks							
13C12-TCDF		0.65-0.89							
316-318	24:40		0.75	455.97	195.17	260.80	1.000	13C12-2378-TCDF	IS0
316-318		1 Peak							

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

TCDD		0.65-0.89							
320-322	22:48		0.81	28.83	12.89	15.94	0.898	1368-TCDD	AN
	23:14		0.76	25.31	10.94	14.37	0.915	1379-TCDD	AN
	25:25		0.78	36.87	16.16	20.71	1.002	2378-TCDD	AN
320		3 Peaks							
37Cl-TCDD									
328	25:24			33.59	33.59		1.001	37Cl-TCDD	CLS
328-330		1 Peak							
13C12-TCDD		0.65-0.89							
332-334	25:12		0.80	323.51	144.01	179.50	0.993	13C12-1234-TCDD	RS1
	25:23		0.79	372.95	164.92	208.03	1.000	13C12-2378-TCDD	IS1
332-334		2 Peaks							

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

PeCDF		1.32-1.78							
340-342	28:40		1.54	197.89	120.06	77.83	1.001	12378-PeCDF	AN
	29:21		1.54	189.74	115.18	74.56	1.024	23478-PeCDF	AN
340-342		2 Peaks							
13C12-PeCDF		1.32-1.78							
352-354	28:39		1.49	418.28	250.20	168.08	1.000	13C12-PeCDF 123	IS2
	29:21		1.52	389.70	234.99	154.71	1.024	13C12-PeCDF 234	SUR1
352-354		2 Peaks							

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

PeCDD		1.32-1.78							
356-358	29:43		1.57	118.80	72.57	46.23	1.001	12378-PeCDD	AN
356-358		1 Peak							
13C12-PeCDD		1.32-1.78							
368-370	29:42		1.43	216.74	127.41	89.33	1.000	13C12-PeCDD 123	IS3
368-370		1 Peak							

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

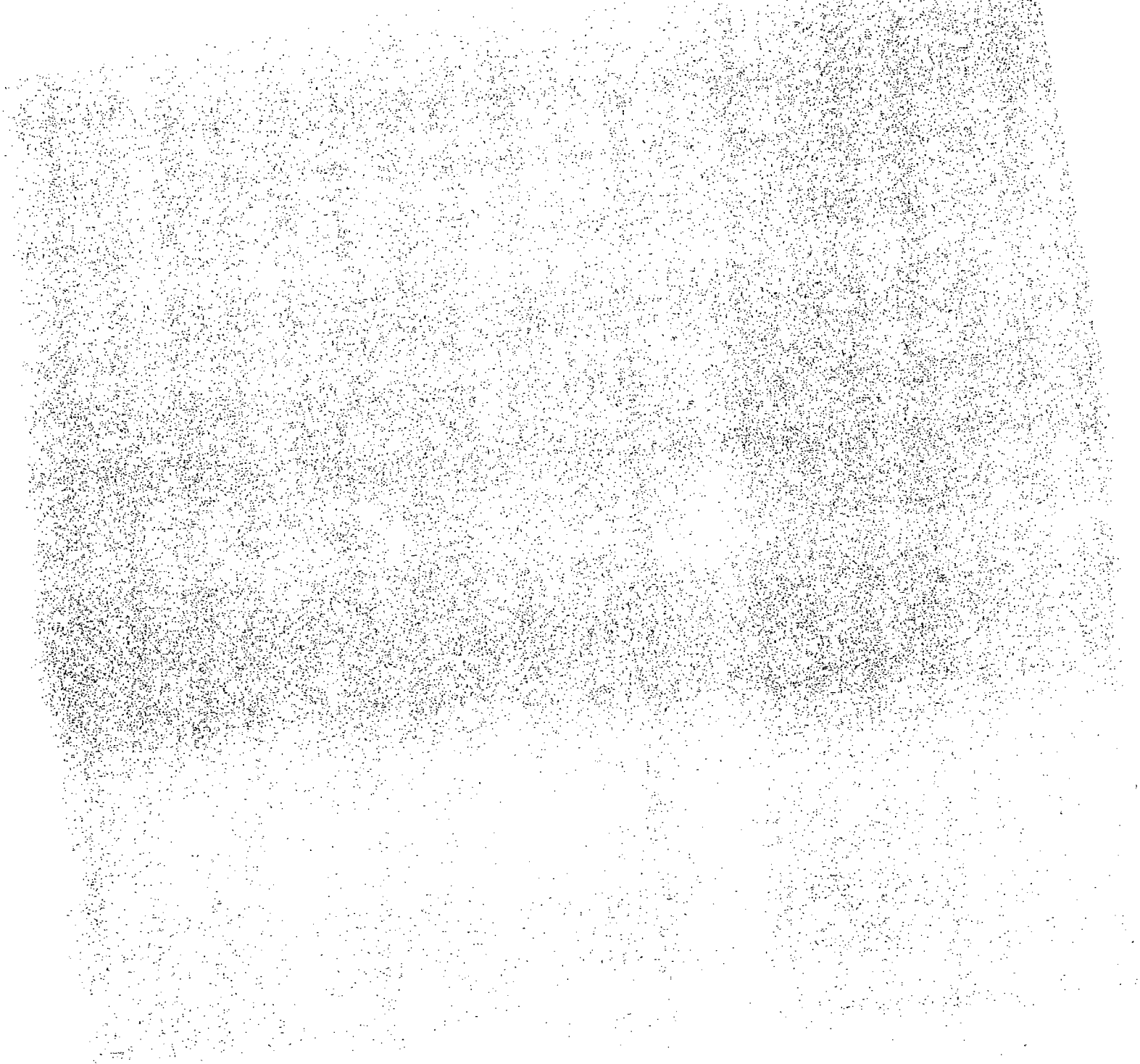
Compound/ M_Z....	..RT.	OK	Ratio	Total.Area...	Area.Peak.1..	Area.Peak.2..	Rel.RT	Compound.Name..	ID..
HxCDF			1.05-1.43						
374-376	32:08		1.29	182.57	102.87	79.70	0.997	123478-HxCDF	AN
	32:14		1.29	191.35	107.82	83.53	1.000	123678-HxCDF	AN
	32:43		1.28	174.92	98.27	76.65	1.016	234678-HxCDF	AN
	33:28		1.30	144.54	81.79	62.75	1.039	123789-HxCDF	AN
374-376		4 Peaks							
13C12-HxCDF			0.43-0.59						
384-386	32:07		0.52	336.93	114.78	222.15	0.997	13C12-HxCDF 478	SUR2
	32:13		0.50	358.52	118.96	239.56	1.000	13C12-HxCDF 678	IS4
	32:42		0.50	316.25	105.23	211.02	1.015	13C12-HxCDF 234	ALT2
	33:27		0.51	235.38	79.22	156.16	1.038	13C12-HxCDF 789	ALT1
384-386		4 Peaks							
---------- Above: HxCDF / HxCDD Follows ----------									
HxCDD			1.05-1.43						
390-392	32:50		1.26	111.00	61.96	49.04	0.998	123478-HxCDD	AN
	32:54		1.23	115.78	63.86	51.92	1.000	123678-HxCDD	AN
	33:13		1.25	110.76	61.62	49.14	1.010	123789-HxCDD	AN
390-392		3 Peaks							
13C12-HxCDD			1.05-1.43						
402-404	32:48		1.23	210.45	116.21	94.24	0.997	13C12-HxCDD 478	SUR3
	32:54		1.23	209.68	115.49	94.19	1.000	13C12-HxCDD 678	IS5
	33:12		1.21	217.53	119.08	98.45	1.009	13C12-HxCDD 789	RS2
402-404		3 Peaks							
---------- Above: HxCDD / HpCDF Follows ----------									
HpCDF			0.88-1.20						
408-410	35:04		1.05	136.51	69.94	66.57	1.000	1234678-HpCDF	AN
	36:36		1.05	100.37	51.36	49.01	1.044	1234789-HpCDF	AN
408-410		2 Peaks							
13C12-HpCDF			0.37-0.51						
418-420	35:04		0.43	209.85	62.80	147.05	1.000	13C12-HpCDF 678	IS6
	36:35		0.42	153.90	45.85	108.05	1.043	13C12-HpCDF 789	SUR4
418-420		2 Peaks							
---------- Above: HpCDF / HpCDD Follows ----------									
HpCDD			0.88-1.20						
424-426	36:06		1.06	73.85	37.97	35.88	1.000	1234678-HpCDD	AN
424-426		1 Peak							
13C12-HpCDD			0.88-1.20						
436-438	36:06		1.04	161.70	82.44	79.26	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	39:52		0.90	133.36	63.33	70.03	1.005	OCDF	AN
442-444			1 Peak						
OCDD			0.76-1.02						
458-460	39:41		0.84	104.93	47.76	57.17	1.000	OCDD	AN
458-460			1 Peak						
13C12-OCDD			0.76-1.02						
470-472	39:40		0.88	213.00	100.00	113.00	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 ***



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:	November 30, 2000
Client ID:	TriMatrix, Inc.
P.O. Number:	
TLI Project Number:	52366

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Overview

The sample and associated QC samples were extracted and analyzed according to procedures described in EPA Method 8290 Rev. 0 (9/94). Any particular difficulties encountered during the sample handling by Triangle Laboratories will be discussed in the QC Remarks section below. This report contains results from only the 8290 dioxin/furan analysis of one water sample.

Quality Control Samples

A laboratory method blank, identified as the TLI Blank, was prepared along with the sample.

Laboratory control spike (LCS) and laboratory control spike duplicate (LCSD) samples were extracted and analyzed along with the samples. A report summarizing the analyte recoveries and relative percent differences for these samples is included in the data package.

Matrix spike (MS) and matrix spike duplicate (MSD) samples were created using sample BASF-SMW-10. The matrix spike samples were extracted and analyzed along with the samples. A report summarizing the analyte recoveries and relative percent differences for these samples is included in the data package.

Quality Control Remarks

This release of this particular set of TriMatrix, Inc. analytical data by Triangle Laboratories was authorized by the Quality Control Chemist who has reviewed each sample data package following a series of inspections/reviews. When applicable, general deviations from acceptable QC requirements are identified below and comments are made on the effect of these deviations upon the validity and reliability of the results. Specific QC issues associated with this particular project are:

Sample receipt: Eight water samples were received from TriMatrix, Inc. at 4 °C in good condition on November 17, 2000 and stored in a refrigerator at 4 °C. The client's chain-of-custody did not indicate whether or not chemical preservatives were utilized for the water sample prior to shipment.

Sample Preparation Laboratory: None

Mass Spectrometry: None

Data Review: Samples BASF-SMW-5, BASF-SMW-6, BASF-DUP1, BASF-FIELD BLANK, BASF-SMW-13, and BASF-SMW-20 are being reextracted. The results from these samples will be forwarded as soon as they are made available.

The percent recoveries of 23478-PeCDF, 234678-HxCDF, 123789-HxCDF, and OCDF in the LCSD are above the QC criteria (70-130%). As a result the associated relative percent differences of 234678-HxCDF and 123789-HxCDF the LCS and LCSD are also above the QC criteria (< 20%). The results for the associated analytes should be consider overestimated

The recoveries and/or relative percent differences (RPDs) for 12378-PeCDF, 123678-HxCDD, 123789-HxCDD, 1234678-HpCDD and OCDD in the matrix spike (MS) and matrix spike duplicate (MSD) analyses are outside method requirements. This variance is due to a high level of these analytes in the native sample. When the amount in the native sample approaches more than one-forth the spiked analyte level, statistical analysis becomes unreliable and the RPDs and recoveries can not be assessed using the QC samples.

Other Comments: No 2,3,7,8-substituted target analytes were detected in the method blank above the target detection limit (TDL).

The analytical data presented in this report are consistent with the guidelines of EPA Method 8290 Rev. 0 (9/94). Any exceptions have been discussed in the QC Remarks section of this case narrative with emphasis on their effect on the data. Should TriMatrix, Inc. have any questions or comments regarding this data package, please feel free to contact our Project Scientist, at (919) 544-5729.

For Triangle Laboratories, Inc.,

Released by,

Kenneth Varley

Report Preparation Chemist

The total number of pages in the data package is : _____

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

American Association for Laboratory Accreditation. Extended Expiration Date of October 31, 1999. Certificate Number 0226-01. Accreditation for technical competence in Environmental Testing. 8280, 8290, 1613A Dioxin in Wastewater; Solid or Hazardous Waste, and Air Matrices: XAD Trains - M23, 8290X and PUF Trains 8290X. Absorbable Organic Halides (AOX)/ Toxic Organic Halides (TOX) in Pulp/Paper. Method 1613A & B, 2,3,7,8 TCDD for Drinking . *Pending Evaluation of On-Site Audit.*

State of Alabama, Department of Environmental Management. Expires December 31, 2000. Laboratory ID # 40950. 2,3,7,8 TCDD (Dioxin) in drinking water.

State of Alaska, Department of Environmental Conservation. Expires December 21, 2000. Lab ID #NC-06-00. Certificate number NC00140. 2,3,7,8- TCDD (Dioxin) in drinking water.

State of Arizona, Department of Health Services. Expires May 26, 2001. Certificate #AZ0423. Drinking Water for Dioxin, Dioxin in Waste Water and Solid or Hazardous Waste.

State of Arkansas, Department of Pollution Control and Ecology. Expires 8 August 2001. Pulp/paper, soil, water, and Hazardous Waste for Dioxin/Furans.

State of California, Department of Health Services. Expires August 31, 2001. Certificate #1922. Organic Chemistry of Drinking Water -Dioxin in DW; EPA Method 1613, Organic Chemistry of Hazardous Waste by GC/MS - EPA Methods 8240B, 8270B, 8280, 8290, 8260A, and Organic Chemistry of Wastewater by GC/MS - EPA Method 613.

State of Connecticut, Department of Health Services. Expires September 30, 2001. Registration # PH-0117. 2,3,7,8 TCDD.(Dioxin) in drinking water (potable water for organic chemicals).

Delaware Health and Social Services. Expired December 31, 1998, **but** current certification will be maintained until DHSS has implemented their NEW Laboratory Certification Program. Certificate #NC 140. Dioxin in drinking water.

Florida Department of Health and Rehabilitative Services. Expires June 30, 2001. Method 1613 for Dioxin in Drinking Water. ID HRS# E87769.

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Georgia Department of Environmental Quality. Initial application sent August 12, 1998 for Chemical Certification of Drinking Water for Dioxins, method 1613. *Currently applying*

Hawaii Department of Health. Expires March 1, 2000. Certified for Dioxin under the Safe Drinking Water Act. "Accepted" status for regulatory purposes.

Idaho Department of Health and Welfare. Expires December 31, 2000. Dioxin in drinking water.

Illinois Environmental Protection Agency. Sent initial application and fees December 18, 1998. Drinking Water, Wastewater and Hazardous Waste, Methods 608, 610, 624, 625, 8081A, 8260B, 8260C, 8270B, 8270C, 8310, 8315A. *Fees paid, Certificate pending.*

Indiana Department of Health. Expires December 31, 2000. Dioxin in drinking water, EPA method 1613. Lab ID # C-NC-01.

State of Kansas, Department of Health and Environment. Expires January 31, 2001. Cert. # E-10215. Method 1613, 2,3,7,8 TCDD for drinking water. Drinking water and/or pollution control; Cert. # E-10215. Solid or Hazardous Waste 8260B, 8270C.

Commonwealth of Kentucky, Department for Environmental Protection. Expires December 31, 2000. Lab ID #90060. 2,3,7,8 TCDD (Dioxin) in drinking water.

State of Louisiana Department of Environmental Quality. As of March 24, 2000, Triangle Laboratories, Inc. has "Pending Accreditation" until the LADEQ completes review of PT studies submitted.

State of Louisiana Department of Health & Hospitals. Expires December 31, 2000. Dioxin (2,3,7,8-TCDD) in Organics parameter. Certificate # LA000008.

Maryland Department of Health and Mental Hygiene. Expires September 30, 2000. Certification #728 - 2,3,7,8 TCDD (Dioxin) by 1613A for Water Quality[SOC II]. *Currently Applying.*

State of Michigan, Department of Environmental Quality. Expires April 1, 2001. 2,3,7,8 TCDD by Method 1613.

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

Montana Department of Health and Environmental Services. Expires December 31, 2000. Dioxin in drinking water.

Revised: 9/07/00 nch

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State of Nebraska Department of Health. Expires December 31, 2000. Reciprocal certification through the North Carolina Department of Health and Human services. 2,3,7,8-TCDD (Dioxin) in drinking water, EPA Method 1613.

State of Nevada, Department of Conservation and Natural Resources. Parameter: Dioxin under Clean Water Act; expires December 31, 2000.

State of Nevada, Department of Human Resources. Lab Certificate No. NC-00140-2000-46, expires June 30, 2001. Parameters: Dioxin under Safe Drinking Water Act, expires March 31 2001.

State of New Jersey, Department of Environmental Protection and Energy. Expires June 30, 2000. ID #67851. 8290 and 1613(2,3,7,8- TCDD). *Currently Applying*

State of New Mexico, Environment Department. Expired October 31, 1999. Dioxin in Drinking Water per A2LA. *Renewal pending A2LA Certificate of renewal.*

New York State Department of Health. Expires March 31, 2001. ID #11026. Environmental Analyses of Solid and Hazardous Waste for purgeable hydrocarbons, chlorinated hydrocarbons, pesticides, priority pollutant phenols; potable water 2,3,7,8 TCDD (Dioxin).

State of North Carolina, Department of Health and Human Services. Expires June 30, 2001. Certificate # 37751. Dioxin in drinking water.

North Dakota State Department of Health and Consolidated Laboratories. Expires March 31, 2000. Certificate # R-076. Effective October 4, 1993. Dioxin in drinking water. Current certification is extended, based on New York certificate renewal.

Oklahoma Department of Environmental Quality. Expires August 31, 2001. Laboratory #9612. 2,3,7,8 TCDD (Dioxin) by 613, 1613A, 8290 and 8280. *Currently applying*

State of South Carolina, Department of Health and Environmental Control. Expires April 1, 2001. 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. Certificate # 99040002 expires August 31, 2001. Solid Hazardous Waste- Dioxins/Furans by 8280A and 8290. Reciprocal certification with California.

State of Tennessee. Department of Environment and Conservation. Expires January 28, 2002. ID #02992. Dioxin in Drinking water.

U.S. Department of Agriculture Soil Permit. Expires June 30, 2002. Permit No. S-4958 (Revised). Under the authority of the Federal Plant Pest Act, permission is granted to receive foreign soil samples for use in laboratory analysis.

Revised: 9/07/00 nch

Y:\CERTIFIC\ADMINIST\CERTLIST.MEM

U.S. Army Corps of Engineers. Expires November 15, 2001. Validated to perform analyses for the McAlester Army Ammunition Plant and various sites. EPA SW-846, Methods 8280 and 8290, water and solids.

U.S. EPA Region V. Expires January 19, 2003. 2,3,7,8 TCDD (Dioxin) in drinking water by method 1613A.

U.S. EPA Region VIII, for the State of Wyoming. Expires October 9, 2000. EPA Method 1613 for Dioxin in drinking water.

State of Utah, Department of Health. ID # TRIA, Account # 9195445729. **Organics** 1613 - RG Dioxin, expires November 31, 2001. **Metal Digestion** 3010A & 3050A; **Metals** 6010B & 7470; **Organic Extraction** 3540A; and, **Organic Instrumentation** 8240, 8280 & 8290; expires May 31, 2001.

Commonwealth of Virginia, Department of General Services, Division of Consolidated Laboratory Services. Expires June 30, 2001. ID # 00341. 2,3,7,8-TCDD (Dioxin) in drinking water.

State of Washington, Department of Ecology. Expires September 11, 2000. Lab Accreditation Number C067. Scope of Accreditation applies to Dioxins (PCDDs/PCDFs) by EPA methods 1613A, 8280, and 8290. *Renewal being processed.*

State of Washington, Department of Health. Expires April 30, 2001. Dioxin by 1613A in drinking water. Lab ID 129.

State of West Virginia, Department of Health. Expires December 31, 2000. Certificate No. 9923(C). 2,3,7,8-TCDD (Dioxin) in drinking water.

State of Wisconsin, Department of Natural Resources. Expires August 31, 2001: Certification for PCDD/PCDF. Laboratory ID Number 999869530. Expires August 31, 2001: Certified for 2,3,7,8-TCDD (Dioxin) in drinking water.

PHARMACEUTICAL

Drug Enforcement Agency (DEA). Expires November 30, 2000. Registration number RT0195835. Controlled substance registration for schedules 1,2,3,3N,4,5.

N.C. Department of Human Resources. Expires October 31, 2000. Registration number NC-PT 0000 0031. North Carolina controlled substances registration for schedules 1, 2, 2N, 3, 3N, 4, 5, 6.

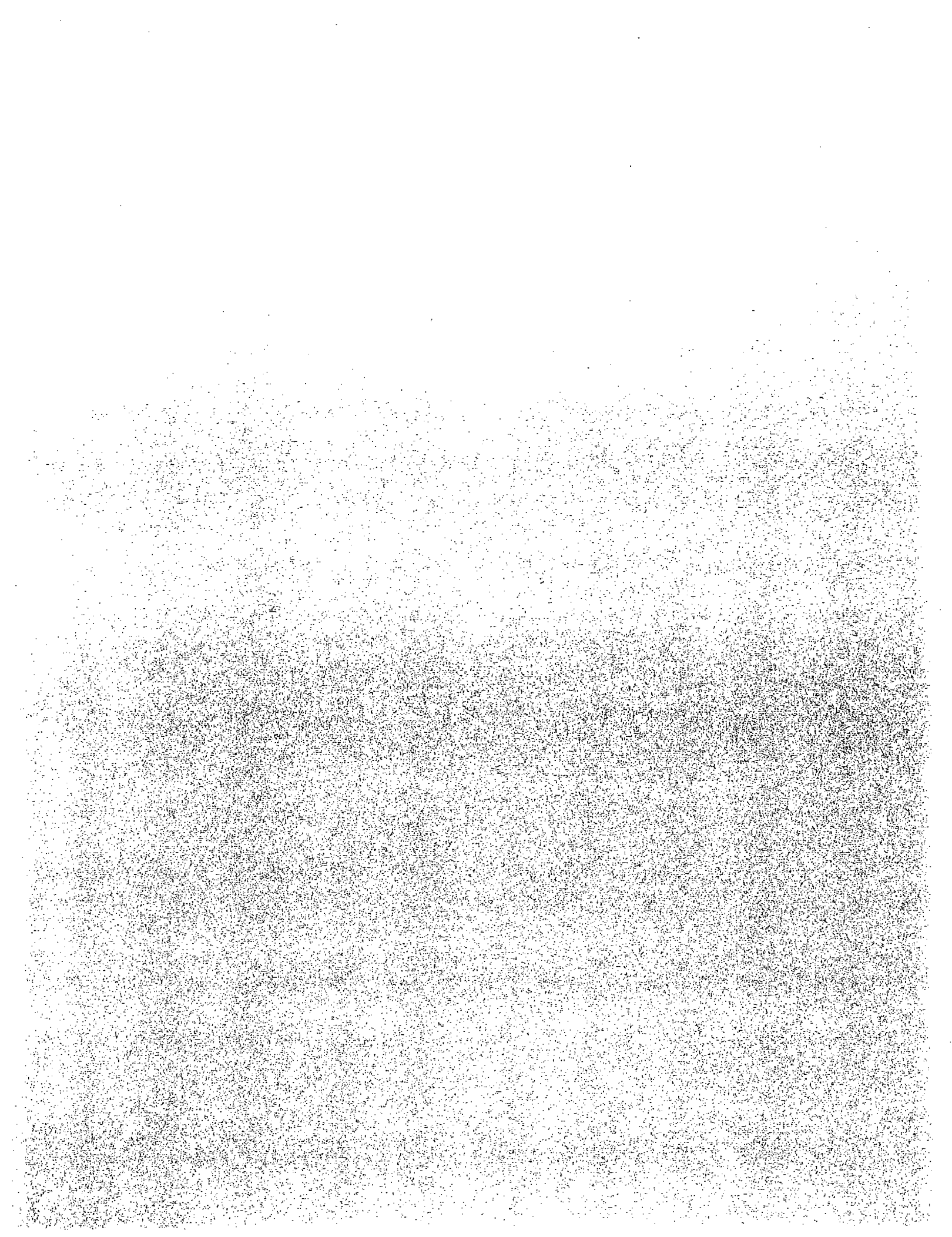
Food & Drug Administration (FDA) Registration. Registered June 17, 1999. ID #'s 001500 1053481(ATL). Annual registration of drug establishment.

OTHER

Clinical Laboratory Improvement Amendments (CLIA) Registration. Expires May 30, 2001. ID # 34D0705123. Department of Health & Human Services, Health Care Financing Administration. Certificate for the Acceptance of Human Specimans for the purposes of performing laboratory examinations or procedures - Chemistry, Toxicology, HCFA.

U.S. EPA Large Quantity Hazardous Waste Generator. No expiration date. EPA ID #NCD982156879. Permit indicates that the laboratory is a large generator of hazardous waste.

North Carolina General License for Radiation Protection. No expiration date. No License. 032-875-OG. The general license applies only to radioactive material contained in devices which have been manufactured and labeled in accordance with specific requirements.



TRIANGLE LABS

DOCUMENT CONTROL

Triangle Laboratories, Inc.
801 Capitola Drive
Durham, NC 27713-4411
919-544-5729

P.O. Box 13485
Research Triangle Park, NC 27709-348
Fax # 919-544-5491

COPY

MALCOLM PIRNIE

ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS

1400 ABBOTT ROAD, SUITE 140
EAST LANSING, MI 48823
PHONE: 517-337-0111

Chain of Custody Record

No. 3425

SITE NAME: BASF

PROJECT NO.: 3940-014

SAMPLERS (SIGNATURE): William H Burns

Date	Time	Matrix*	Comp	GRAB	Sample I.D.	No. of Containers	Container Type** & Volume	Field Filtered (Yes or No)	Preservation Method	Analysis Required: Dioxin	Remarks
11/15/00		Water		X	BASF-DUP 1	2	1000mlG	N	—	X	
↓	12:24	↓		X	BASF-MS/MSD	1	↓	↓	—	X	
↓	17:00	↓		X	BASF-Field Blank	2	↓	↓	—	X	

Comments/Instructions to Lab:

Tri Matrix Customer

Relinquished by: (signature) William H Burns — Date/Time 11/16/00 17:45 — Received by:

Dispatched by: (signature) — Date/Time — Carrier:

Lab Task Order #: — Airbill Shipping#: — Received at lab by: — Date/Time 11-17-00 0910 — Logged in by: — Date/Time 11/17/00

*MATRIX: WATER (WTR), WASTEWATER (WW), SOIL (SOL), SLUDGE (SLU), AIR, OIL, HAZARDOUS WASTE (HW)

**CONTAINER TYPE: P - POLYETHYLENE, G - GLASS

COPY

MALCOLM PIRNIE
ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS
1400 ABBOTT ROAD, SUITE 140
EAST LANSING, MI 48823
PHONE 517-337-0111

Chain of Custody Record

No. 3424

SITE NAME: BASF

PROJECT NO.: 3940-014

SAMPLERS (SIGNATURE):

Date	Time	Matrix*	Comp	GRAB	Samp : I.D.	No. of Containers	Container Type** & Volume	Field Filtered (Yes or No)	Preservation Method	Analysis Required: Dioxin	Remarks
11/15/00	11:55	Water		X	BASF-SMW-5	2	1000mL G	N	—	X	
↓	15:55	↓		X	BASF-SMW-6	2	↓	↓	—	X	
↓	12:24	↓		X	BASF-SMW-10	2	↓	↓	—	X	

Comments/Instructions to Lab:

Tri Matrix Customer

Relinquished by: (signature) — Date/Time: 11/16/00 17:45 — Received by:

Dispatched by: (signature) — Date/Time — Carrier:

Lab Task Order #: — Airbill Shipping#: — Received at lab by: — Date/Time — Logged in by: — Date/Time

COPY

MALCOLM PIRNIE
ENVIRONMENTAL ENGINEERS, SCIENTISTS & PLANNERS
1400 ABBOTT ROAD, SUITE 140
EAST LANSING, MI 48823
PHONE: 517-337-0111

Chain of Custody Record

No. 3423

SITE NAME: BASF

PROJECT NO.: 3940-014

SAMPLERS (SIGNATURE):

Date	Time	Matrix*	Comp	GRAB	Sample I.D.	No. of Containers	Container Type** & Volume	Field Filtered (Yes or No)	Preservation Method	Analysis Required: Dioxin	Remarks
11/15/00	16:40	Water		X	BASF-SMW-13	2	1000ml G	N	—	X	
11	18:00	Water		X	BASF-SMW-20	2	1000ml G	N	—	X	

Comments/Instructions to Lab: ~~TriMatrix~~ Customer
TriMatrix

Relinquished by: (signature) — Date/Time: 11/16/00 17:45 — Received by:

Dispatched by: (signature) — Date/Time — Carrier:

Task Order #: — Airbill Shipping#: — Received at Lab by: — Date/Time — Logged in by: — Date/Time

COPY

CLIENT CHAIN OF CUSTODY **SAMPLER'S SIGNATURE** Will H Burner **Quote 0000001174**

From (1): TriMatrix, Inc.
5560 Corporate Exchange Court
Grand Rapids, MI 49512
Project (1): BASF - Malcolm Pirnie

Contact: Lisa Harvey
Phone: 616/975-4500
Fax: 616/942-7463
P.O.# (1): _____

(TMI03 /UN) If the data will be reported to a state agency, which one? ___

Analysis Wanted (2):

1613B:T-O	8280A:T-O	8290:T-O	Dioxin

Total Number of Containers: ~~6~~ 6 WHB 11/15/00

Turn Around Time (In Calendar Days):

Sample ID (3)	Date / Time	Preservation (4)	Matrix	Sample Amt.	Remarks
BASF-SMW-5	11/15/00 11:55	—	Water	2-1000ml	
BASF-SMW-6	11/15/00 12:55	—	↓	↓	
BASF-SMW-10	11/15/00 12:24	—	↓	↓	
BASF-SMW-13	11/15/00 16:40	—	↓	↓	

Relinquished By/Sign.	Date/Time	Received By/Sign.	Relinquished By/Sign.	Date/Time	Received By/Sign.
Will H Burner	11/15/00 17:45				

Received for Laboratory By/Signature	Date/Time	Send Samples to:
Randy Tuttle	09:00 11/17/00	**Triangle Laboratories, Inc.** **Attn: Sample Custodian** **801 Capitola Drive** **Durham, NC 27713 USA** **Phone: (919) 544-5729 • Fax: (919) 544-5491**

Directions: (1) Provide and/or correct client and project information.
(2) Verify analysis, check approriate boxes for each sample.
(3) Enter the sample ID to be used when reporting the samples.
(4) Please indicate the preservation used for each sample.

COPY

CLIENT CHAIN OF CUSTODY

SAMPLER'S SIGNATURE _____ Quote 0000001174

From (1): TriMatrix, Inc.
5560 Corporate Exchange Court
Grand Rapids, MI 49512

Contact: Lisa Harvey
Phone: 616/975-4500
Fax: 616/942-7463

Project (1): BASF- Malcolm Pirnie

P.O.# (1): _____

(TMI03 /UN)

If the data will be reported to a state agency, which one? ___.

Analysis Wanted (2): 1613B:T-O | 8280A:T-O | 8290:T-O | Dioxin

Total Number of Containers: 5

Turn Around Time (In Calendar Days):

Sample ID (3)	Date / Time	Preservation (4)	Matrix	Sample Amt.	1613B:T-O	8280A:T-O	8290:T-O	Dioxin		Remarks
BASF-SMW-20	11/15/00 18:00		Water	2-1000ml						
BASF-DUP 1	11/15/00		Water	2-1000ml				X		
BASF-MS/MSD	11/15/00 12:24			1-1000ml				X		
BASF-Field Blank	11/15/00 17:00			2-1000ml				X		

Relinquished By/Sign.	Date/Time	Received By/Sign.	Relinquished By/Sign.	Date/Time	Received By/Sign.
[signature]	11/15/00 17:45				

Received for Laboratory By/Signature	Date/Time	Send Samples to:
[signature]	09:00 11-17-00	Triangle Laboratories, Inc. Attn: Sample Custodian 801 Capitola Drive Durham, NC 27713 USA Phone: (919) 544-5729 • Fax: (919) 544-5491

Directions:
(1) Provide and/or correct client and project information.
(2) Verify analysis, check approriate boxes for each sample.
(3) Enter the sample ID to be used when reporting the samples.
(4) Please indicate the preservation used for each sample.

1

TRIANGLE LABORATORIES, INC. LOG ID RECORD/CHAIN OF CUSTODY

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

TLI Project Number 52366
Client: TM103 - TriMatrix, Inc.

Book 274 Page 99

Date Received 11/17/00 By

Ice Chest ICE Temp 4.0 C

Carrier and Number UPS

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
274-99-1A	BASF-SMW-5	WATER									
	BASF-SMW-5	CO2	11/21/00								
274-99-1B	BASF-SMW-5	WATER									
	BASF-SMW-5	CO2									
274-99-2A	BASF-SMW-6	WATER									
	BASF-SMW-6	CO2									
274-99-2B	BASF-SMW-6	WATER									
	BASF-SMW-6	CO2									
274-99-3A	BASF-SMW-10	WATER									
	BASF-SMW-10	CO2									
274-99-3B	BASF-SMW-10	WATER									
	BASF-SMW-10	CO2									
274-99-4A	BASF-DUP1	WATER									
	BASF-DUP1	CO2									
274-99-4B	BASF-DUP1	WATER									
	BASF-DUP1	CO2									
274-99-5	BASF-MS/MSD	WATER									
	BASF-MS/MSD	CO2									
274-99-6A	BASF-FIELD BLANK	WATER									
	BASF-FIELD BLANK	CO2									
274-99-6B	BASF-FIELD BLANK	WATER									
	BASF-FIELD BLANK	CO2									
274-99-7A	BASF-SMW-13	WATER									
	BASF-SMW-13	CO2									
274-99-7B	BASF-SMW-13	WATER									
	BASF-SMW-13	CO2									
274-99-8A	BASF-SMW-20	WATER									
	BASF-SMW-20	CO2	11/21/00								

Receiving Remarks:

Archive Remarks:

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

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

TLI Project Number 52366
Client: TMI03 - TriMatrix, Inc.

Date Received 11/17/00 By

Ice Chest ICE Temp 4.0 C

Carrier and Number UPS

Book 274 Page 99

TLI Number / mR/H:CPM	Client Sample ID / Client COC ID	Location	Matrix	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
274-99-88	BASF-SMW-20		WATER	[illegible]	[illegible]							
	BASF-SMW-20	CO2		11/21/00	11/21/00							

Receiving Remarks:

Archive Remarks:

TRIANGLE LABORATORIES, INC.
SAMPLE TRACKING AND PROJECT MANAGEMENT FORM

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

TLI Proj#: 52366-	Samples: 7+MS/MSD	TurnAround.: 21 Day(s)
Prod Code: D01002	Matrix.: Water	Hold Time..: 30 Day(s)
DetectLim: 10 ppq	Type...: B	Start Date.: 11/17/00
	Recvd...: 11/17/00	Ship By....: 12/06/00
		DWL Due Dt.: 11/27/00

Analyte List.: Tetra - Octa

Method.....:	Method 8290: Tetra-Octa	
Client Proj..:	BASF-Malcolm Pirnie	
Client.....:	TriMatrix, Inc. (TMI03)	
P.O. No.....:		Collect Dt/Tm: 11/15/00
Contact.....:	Lisa Harvey	Phone.....: 616/975-4532
Proj. Mgr....:		Fax.....: 616/942-7463
		Sample Origin:

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

Prespike Standard: n/a
Extraction Exp...: 12/15/00

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

Reporting Format: Report Option III

See MILES for Instructions/Communications.

Completed by: AC / [signature] DATE: 11-17-00

Reviewed by: AC / [signature] DATE: 11/17/00 (PMGT0197)

Date: 11/21/00
Time: 21:52

TRIANGLE LABORATORIES, INC.
Wet Lab Extraction and Observations
Project: 52366

PRDPERC v4.03
Page: 1

Sample #	cid	TLI_Number..	Customer.Sample.Id.....	Init. pH...	NaOH Adj. mL..	NaOH Adj. pH.1.	H2SO4 Adj. mL...	H2SO4 Adj. pH.2.	Appearance.	Color.....	Odor...	Vol.	Entered.By.....	Date....	Time....	S
000		TLI Blank	TLI Blank	7.00	n/a	n/a	n/a	n/a	HPLC H2O	none	none	1000	miller	11/21/00	21:49:13	F
001		274-99-1A	BASF-SMW-5	10.00	n/a	n/a	0.5	8.00	opaque	brown	yes	1070	miller	11/21/00	21:52:49	F
002		274-99-2A	BASF-SMW-6	13.00	n/a	n/a	12.0	8.00	opaque	brown	yes	1090	miller	11/21/00	21:52:49	F
003		274-99-3A	BASF-SMW-10	13.00	n/a	n/a	11.0	7.00	opaque	brown	yes	1080	miller	11/21/00	21:52:49	F
004		274-99-3BMS	BASF-SMW-10 (MS)	13.00	n/a	n/a	12.0	7.00	opaque	brown	yes	1090	miller	11/21/00	21:52:49	F
005		274-99-5MSD	BASF-MS/MSD (MSD)	13.00	n/a	n/a	12.0	7.00	opaque	brown	yes	1080	miller	11/21/00	21:52:49	F
006		274-99-4A	BASF-DUP1	10.00	n/a	n/a	0.5	8.00	opaque	brown	yes	1060	miller	11/21/00	21:52:49	F
007		274-99-6A	BASF FIELD BLANK	7.00	n/a	n/a	n/a	n/a	clear	none	none	1060	miller	11/21/00	21:52:49	F
008		274-99-7A	BASF-SMW-13	12.00	n/a	n/a	11.0	7.00	opaque	brown	yes	1050	miller	11/21/00	21:52:49	F
009		274-99-8A	BASF-SMW-20	13.00	n/a	n/a	11.0	7.00	opaque	brown	yes	1090	miller	11/21/00	21:52:49	F
010		TLI LCS	TLI LCS	7.00	n/a	n/a	n/a	n/a	HPLC H2O	none	none	1000	miller	11/21/00	21:49:13	F
011		TLI LCSD	TLI LCSD	7.00	n/a	n/a	n/a	n/a	HPLC H2O	none	none	1000	miller	11/21/00	21:49:13	F

*** End of Report ***

TRIANGLE LABORATORIES, INC. PAGE 1 OF 2

Dioxin Sample Preparation Tracking & Management Form

Project: 52366 Client: TriMatrix, Inc. (TMI03)

Solvent(s)/Acid(s): MeCl2 / Toluene / _____ Method: Method 8290: Tetra-Octa Matrix: H2O

Lot Numbers: 996614 / 004450 / _____ Extraction Date: 11/21/00

IS Spike: 20 µl conc: 0.1000 ng/µl

SS Spike: ____ µl conc: ____ ng/µl

MS Spike: 40 µl conc: 0.0100 ng/µl

LCS Spike: 40 µl conc: 0.0100 ng/µl

	JSM	JSM	ES			Chemist
	7582C	7554M	7556K			Spike ID
	USF-MS	USF-ML	USF-C			" ID
	7/3/01	7/2/01	07/02/01	/ /		" Exp
	11/21/00	11/21/00	11/22/00	/ /		" Date
	14:30	14:30	17:00	:		" Time
	0.1 ng/µl	0.01 ng/µl	0.01 ng/µl	ng/µl		" Conc
	20 µl	40 µl	20 µl	µl		" Vol

S#.crd	TLI SAMPLE ID / CLIENT SAMPLE ID	GROSS WEIGHT Before	GROSS WEIGHT After	SAMPLE SIZE g / (ml)					
000	TLI Blank / TLI Blank	XXXXXXXXX	XXXXXXXXX	1000	JSM		ES		Any Le yes/n
001	274-99-1A / BASF-SMW-5 pH=10	XXXXXXXXX	XXXXXXXXX	1070					Any Le (yes)/n
		1564g	504g						
002	274-99-2A / BASF-SMW-6 pH=13	XXXXXXXXX	XXXXXXXXX	1090					Any Le (yes)/n
		1590g	505g						
003	274-99-3A / BASF-SMW-10 pH=13	XXXXXXXXX	XXXXXXXXX	1080					Any Le yes (n)
		1583g	504g						
004	274-99-3BMS pH=13 / BASF-SMW-10 (MS)	XXXXXXXXX	XXXXXXXXX	1090		* JSM			Any Le yes (n)
		1591g	505g						
005	274-99-5MSD pH=13 / BASF-MS/MSD (MSD)	XXXXXXXXX	XXXXXXXXX	1080		* JSM			Any Le yes (n)
		1586g	504g						
006	274-99-4A pH=P / BASF-DUP1	XXXXXXXXX	XXXXXXXXX	1060					Any Le (yes)/n
		1559g	504g						
007	274-99-6A pH=7 / BASF-FIELD BLANK	XXXXXXXXX	XXXXXXXXX	1060					Any Le (yes)/n
		1562g	504g						
008	274-99-7A pH=12 / BASF-SMW-13	XXXXXXXXX	XXXXXXXXX	1050					Any Le (yes)/n
		1561g	504g						
009	274-99-8A pH=13 / BASF-SMW-20	XXXXXXXXX	XXXXXXXXX	1090	JSM		ES		Any Le (yes)/n
		1588g	505g						

Gross weight of sample container + sample before/after aliquot removal.

Comments: HPLC H2O lot # 000976 used for Blank, LCS, & LCSD.

001. Added 0.5mL 1:1 H2SO4 → pH=8 002: added 12mL 1:1 H2SO4 → pH=8 003: added 1mL → pH=7

004 - added 12mL 1:1 H2SO4 → pH=7 005: added 12mL → pH=7 006: added 0.5mL → pH=8

008 - added 11mL → pH=7 009: added 11mL → pH=7 Initials: JS Date: 11/21/00

Initials of both SPIKER AND OBSERVER must be entered. XXXXX = Gross Weight not provided for WATER Samples

REV 05/27/97 (PSTMF 7

TRIANGLE LABORATORIES, INC. PAGE 2 OF 2

Dioxin Sample Preparation Tracking & Management Form

Project: 52366 Client: TriMatrix, Inc. (TMI03)

Solvent(s)/Acid(s): CH_2Cl_2 / _____ / _____ Method: Method 8290: Tetra-Octa Matrix: H_2O

Lot Numbers: 996614 / _____ / _____ Extraction Date: 11/21/00

IS Spike: 20 µl conc: 0.1000 ng/µl

SS Spike: ___ µl conc: ___ ng/µl

MS Spike: 40 µl conc: 0.0100 ng/µl

LCS Spike: 40 µl conc: 0.0100 ng/µl

JSM	JSM	[illegible]			Chemist
7582C	7554M	7556K			Spike #
USF-AN	USF-ML	USF-C			" ID
7/2/01	7/2/01	07/02/01	/ /		" Exp.
11/21/00	11/21/00	11/22/00	/ /		" Date
14 : 30	14 : 30	17 : 00	:		" Time
0.1 ng/µl	0.01 ng/µl	0.01 ng/µl	ng/µl		" Conc
20 µl	40 µl	20 µl	µl		" Vol

S#.crd	TLI SAMPLE ID / CLIENT SAMPLE ID	GROSS WEIGHT Before	GROSS WEIGHT After	SAMPLE SIZE g / (ml)					
	TLI LCS	XXXXXXXXX	XXXXXXXXX						Any Le
010	TLI LCS	XXXXXXXXX	XXXXXXXXX	1000	JSM	JSM	[illegible]		yes/no
	TLI LCSD	XXXXXXXXX	XXXXXXXXX						Any Le
011	TLI LCSD	XXXXXXXXX	XXXXXXXXX	1000	JSM	JSM	[illegible]		yes/no
									Any Le
									yes/no
									Any Le
									yes/no
									Any Le
									yes/no
									Any Le
									yes/no
									Any Le
									yes/no
									Any Le
									yes/no
									Any Le
									yes/no

Gross weight of sample container + sample before/after aliquot removal.

Comments: 001-006, 008, 009 - opaque, brown, w/ odor. 007 - clear, colorless, no odor.

Initials: JSM Date: 11/21/00

Initials of both SPIKER AND OBSERVER must be entered. XXXXX = Gross Weight not provided for WATER Samples

REV 05/27/97 (PSTMF 7

TRIANGLE LABORATORIES, INC.

DIOXIN SAMPLE EXTRACTION and CLEANUP TRACKING FORM

TLI Project No.: 52366

Ext S#.crd and TLI Number	1	2	3	4	7	8
010 TLI LCS	JS 11/21/00	EM 11/22/00	MC 11/24/00	MC 11/24/00	MC 11/24/00	SS 11/24/00
011 TLI LCSD	JS 11/21/00	EM 11/22/00				SS 11/24/00

Enter the procedure number below into the box at the top of each column to signify the step performed.
Initial and date each sample for each numbered procedure performed.

#.	....PROCEDURE....	SOP.#.	v..	DETAILS (circle)
1)	EXTRACTION	161	16	Time On 23:00 Time Off 15:00
				Soxhlet / Jar / Sep Funnel / Steam Dist / Cont LL / ASE / Waste Dilution
2)	SPIKE AFTER EXT'N			EM 11/21/00
3)	ADD TRIDECANE			Lot# 11-1-23-2627
4)	ROTOVAP	____	____	40mL / 10mL / Dryness
5)	COMBINE	____	____	
6)	DIV./LIP. DETERM.	____	____	20%/80% 50%/50% 5mL/20mL Other____
7)	SOLVENT EXCHANGE			Iso-Octane Lot#_____ Heptane Lot# V5547126J8
8)	CLEANUP		12	DSP 260 / Modified DSP 260 / DSP 280 / Other _____
9)	TRANSFER	____	____	
10)	ADDITIONAL CLEANUP		____	DSP260(10g)
11)	FINAL TRANSFER	____	____	

Comments: _____

Rev 11/25/97 (PSTMP

TRIANGLE LABORATORIES, INC.

DIOXIN SAMPLE EXTRACTION and CLEANUP TRACKING FORM

TLI Project No.: 52366

Ext S#.crd and TLI Number	1	2	3	4	5	6	7	8	9
000 TLI Blank	JS 11/21/00	11/22/00	MC 11/24/00	KG 11/24/00	N/A	N/A	MC 11/24/00	SF 11/24/00	JJ 11/24/00
001 274-99-1A					MC 11/24/00	MC 11/24/00			
002 274-99-2A									
003 274-99-3A									
004 274-99-3BMS									
005 274-99-5MSD									
006 274-99-4A									
007 274-99-6A					N/A	N/A			
008 274-99-7A					MC 11/24/00	MC 11/24/00			
009 274-99-8A	JS 11/21/00	11/22/00						SF 11/24/00	JJ 11/24/00

Enter the procedure number below into the box at the top of each column to signify the step performed.
Initial and date each sample for each numbered procedure performed.

#.	....PROCEDURE....	SOP.#.	.v..	DETAILS (circle)
(1)	EXTRACTION	161	16	Time On 23 : 00 Time Off 15 : 00
				Soxhlet / Jar / Sep Funnel / Steam Dist / Cont LL / ASE / Waste Dilution
(2)	SPIKE AFTER EXT'N			
(3)	ADD TRIDECANE			Lot# 44-1-23-252J
(4)	ROTOVAP	____	____	40mL / 10mL / Dryness
(5)	COMBINE	____	____	
6)	DIV./LIP. DETERM.	____	____	20%/80% 50%/50% 5mL/20mL Other____
(7)	SOLVENT EXCHANGE			Iso-Octane Lot#_____ Heptane Lot#_____
(8)	CLEANUP		12	DSP 260 / Modified DSP 260 / DSP 280 / Other _____
(9)	TRANSFER	472	S	
10)	ADDITIONAL CLEANUP		____	DSP260(10g)
11)	FINAL TRANSFER	____	____	

Comments: _____

Rev 11/25/97 (PSTMF 4)

TRIANGLE LABORATORIES, INC.
Transfer Chain-of-Custody Form
Project 52366

Transfer From: DWLL5 To: DMS5

	Initials..	Date.....	Time...
Released by:	JJ	11/24/00	20:57
Accepted by:	DFS	11/24/00	21:00

MILES.ID.....		TLI_No.....	Cust.Id.....
52366-	-000	TLI Blank	TLI Blank
52366-	-001	274-99-1A	BASF-SMW-5
52366-	-002	274-99-2A	BASF-SMW-6
52366-	-003	274-99-3A	BASF-SMW-10
52366-	-004	274-99-3BMS	BASF-SMW-10 (MS)
52366-	-005	274-99-5MSD	BASF-MS/MSD (MSD)
52366-	-006	274-99-4A	BASF-DUP1
52366-	-007	274-99-6A	BASF-FIELD BLANK
52366-	-008	274-99-7A	BASF-SMW-13
52366-	-009	274-99-8A	BASF-SMW-20
52366-	-010	TLI LCS	TLI LCS
52366-	-011	TLI LCSD	TLI LCSD

XfrCOC (Rev 11/01/94)

Additional comments or instructions:

TRIANGLE LABORATORIES, INC.

Method: Method 8290: Tetra-Octa — HR GC/HRMS ANALYSIS

Required Detection Limit: 10 ppq — PROJECT: 52366

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: DB225	USF-RS 100 VOLUME 20µl SOLN ID 75607	USF-RS 100 INIT. MVL DATE 11/24/00	ANALYSIS COMMENTS
000	TLI Blank / TLI Blank	T005817					BATCHED NATIVE
001	274-99-1A / BASF-SMW-5	T005818	Y	P004298			
002	274-99-2A / BASF-SMW-6	T005819	Y	P004299			
003	274-99-3A / BASF-SMW-10	T005820	Y	P004302			
004	274-99-3BMS / BASF-SMW-10 (MS)	T005821	-				
005	274-99-5MSD / BASF-MS/MSD (MSD)	T005822	-				
006	274-99-4A / BASF-DUP1	T005823	Y				
007	274-99-6A / BASF-FIELD BLANK	T005824	N				
008	274-99-7A / BASF-SMW-13	T005825	Y				
009	274-99-8A / BASF-SMW-20	T005826	Y				
010	TLI LCS / TLI LCS	T005827	-				
011	TLI LCSD / TLI LCSD	T005828	-				

Comments: _____ Type: B

Spike File: SPMIT22S

Amt of Extract: 100%

REV 03.07/95 (PSTMF 6

Triangle Laboratories, Inc.
Run Log

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Instrument ID	Column Type	Column ID	Plot Name	Inj. Vol.	Acquisition	G/C
70T	DB-5	0630321	T02	2.0 µl	NDB5L2S	NDB5L2S

Signature: [signature] Date: 11/24/00

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
T005814	11/24/00	2139	—	7584A	—	8290/1613 Concal 10	Auto	7.5 8.5	MVL 11/24/00	NG OLDD Std % D out MVL 11/24/00
T005815	11/24/00	23:24	—	7584A	—	8290/1613 Concal 10	Auto	4.7 8.5	MVL 11/24/00	Cond Sled T-0 [illegible]
T005816	11/25/00	00:18	—	7581A	—	PTCHK	Auto	1170	[illegible] 11/25/00	
T005817	11/25/00	01:13	52366	TCI Blk	0	TCI Blk	Auto	6.6 8.5	[illegible] 11/25/00	
T005818		02:00		274-99-1A	1	BASF-SMW-5		9.0E5		
T005819		02:47		274-99-2A	2	BASF-SMW-6		1.1E6		
T005820		03:34		274-99-3A	3	BASF-SMW-10		1.4E6		
T005821		04:21		274-99-3MS	4	BASF-SMW-10(MS)		1.7E6		
T005822		05:08		274-99-5MS	5	BASF-MS/MSD (MSD)		1.8E6		
T005823		05:55		274-99-4A	6	BASF-DUPI		9.0E5		
T005824		06:42		274-99-6A	7	BASF-Field Blk		2.4E5		
T005825		07:28		274-99-7A	8	BASF-SMW-13		5.5E5		
T005826	11/25/00	08:15	52366	274-99-8A	9	BASF-SMW-20	Auto	1.2E5	[illegible] 11/25/00	

* Transcribed from chromatographic data
** Dated Initials required

ConCal Due: _____
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
707	DB-5	0630321	T2	2.0 µl	NDB540	NDB540

Signature: [signature] Date: 11/25/00

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
T005827	11/25/00	09:02	52346	TCILCS	10	TCILCS	Auto	3.0E5	[signature] 11/25/00	
T005828	11/25/00	09:49	↓	TCILCSD	11	TCI LCSD	↓	1.8E5		
T005829	11/25/00	1036	—	7584A	—	8290/1613 ConCal 10	Auto	1.0 E5	[signature] 11/25/00	N/A HxCDF > 25%
T005830	11/27/00	0806	—	7584A	—	8290/1613 Concal 10	Auto	5.7 E5	[signature] 11/27/00	Good 8290 TCO F10 [illegible]
T005831	11/27/00		—	7581A	—	RTCHK	Auto		HZ 11/27/00	

* Transcribed from chromatographic data
** Dated initials required

ConCal Due: 11:24 [signature] 11-25-00
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
70p	DB225	0682457	TT1	2.0 µL	DB225	DB225

Hong Zhou — Signature
11/29/00 — Date

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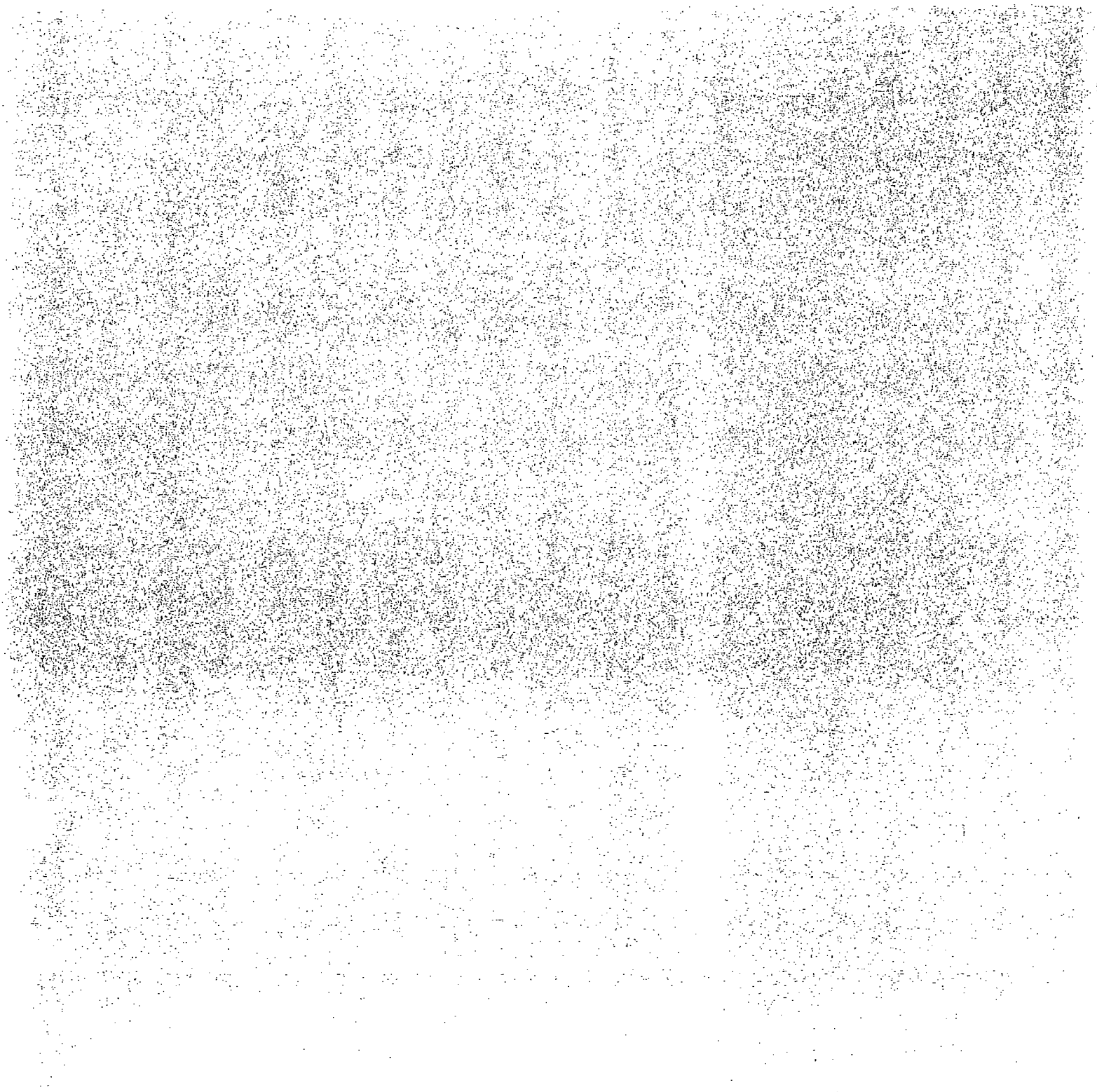
Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
P004338	11/29/00	1651	-	7568A	-	Tetra Concal 5.0	Auto	5.5 E5	HZ 11/29/00	
P004339	11/29/00	1833	—	7581A	—	RT Lab	Auto	16%	MVL 11/29/00	
P004340	11/29/00	1934	—	7568A	—	Tetra Concal 5.0	Auto	3.7 E6	MVL 11/29/00	Good 1613B and 8290 MVL 11/29/00
P004341	11/29/00	2031	—	7560I	—	R310	Auto	3.1 E6	MVL 11/29/00	
P004342	11/29/00	2122	52366	274-99-3A	3	BASF-SMW-10	Auto	1.8 E6	MVL 11/29/00	
P004343	11/29/00	23:41	52168C4	272-95-1	1	HB-0161 (2-10)	Auto	2.1 µL	MVL 11/29/00	
P004344	11/30/00	01:27	52352	274-85-1	1	AFR SLUDGE	Auto	1.3 µL	11/30/00	
P004345	11/30/00	02:55	52391	275-25-1	1	2011-066-01/01-X-Y	Auto	2.0 µL	11/30/00	
P004346		04:01	52391	275-25-2	2	2011-066-02/04-L-X	Auto	2.5 µL	11/30/00	
P004347		04:47	52391	275-25-3	3	2011-066-03/05-L-X	Auto	1.9 µL	11/30/00	
P004348		05:36	52391	275-25-4	4	2011-066604/06-L-X	Auto	2.5 µL	11/30/00	
P004349		06:20	52391	275-25-5	5	2011-0666-0 -L-X	↓	2.1 E5	↓	
P004350	11/30/00	07:05 06:20	—	7568A	—	Tetra Concal 5.0	Auto	2.9 E5	11/30/00	Good reducing sugar 7568 11/30/00

* Transcribed from chromatographic data
** Dated initials required

ConCal Due: _____
ConCal Due: _____

srvr1/qe/forms/hrunlog.doc (02/05/97)



TRIANGLE LABS

SAMPLE DATA

Triangle Laboratories, Inc.
801 Capitola Drive
Durham, NC 27713-4411
919-544-5729
P.O. Box 13485
Research Triangle Park, NC 277
Fax # 919-544-5491

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

Project: 52366
Matrix: WATER
Method: 8290

Isomer	T005817 ID: TLI Blank Sample (pg/l)	T005827 ID: TLI LCS With Spike (pg/l)	Percent Recovery	T005828 ID: TLI LCSD Spike Dup (pg/l)	Percent Recovery	Relative Percent Difference
2378-TCDD	ND	435	109	410	103	5.66
12378-PeCDD	ND	1860	93.0	1950	97.6	4.83
123478-HxCDD	ND	2050	102	2050	103	0.98
123678-HxCDD	ND	2050	103	2180	109	5.66
123789-HxCDD	ND	2100	105	2290	114	8.22
1234678-HpCDD	ND	2240	112	2320	116	3.51
OCDD	ND	4430	111	4770	119	6.96
2378-TCDF	ND	402	100	406	101	1.00
12378-PeCDF	ND	2180	109	2190	109	0.0
23478-PeCDF	ND	2550	127	2960	148	15.3
123478-HxCDF	ND	2050	103	2060	103	0.0
123678-HxCDF	ND	2080	103	2150	107	3.81
234678-HxCDF	ND	2170	108	2660	133	20.7
123789-HxCDF	2.5	2200	110	2960	148	29.5
1234678-HpCDF	ND	2040	102	2200	110	7.55
1234789-HpCDF	ND	1780	88.9	2160	108	19.4
OCDF	ND	5020	126	5360	134	6.15

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

MILES 4.22.16
GRY_PSUM v1.10

Processed By: _____ Date: 11/30/00

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

TRIANGLE LABORATORIES, INC.
MATRIX SPIKE RECOVERY ANALYSIS AND COMPARISON

Project: 52366
Matrix: WATER
Method: 8290

Isomer	T005820 ID: BASF-SMW-10 Sample (pg/l)	T005821 ID: BASF-SMW-10 (MS) With Spike (pg/l)	Percent Recovery	T005822 ID: BASF-MS/MSD (MSD) Spike Dup (pg/l)	Percent Recovery	Relative Percent Difference
2378-TCDD	319	694	102	704	104	1.94
12378-PeCDD	579	2290	93.1	2250	90.0	3.39
123478-HxCDD	264	1960	92.5	2080	98.0	5.77
123678-HxCDD	4880	14630	532	6870	107	133
123789-HxCDD	2090	5310	176	4040	105	50.5
1234678-HpCDD	81960	177190	5190	93660	632	157
OCDD	326530	367280	1110	347840	575	63.5
2378-TCDF	1880	2180	82.6	2210	90.5	9.13
12378-PeCDF	ND	4350	237	4220	228	3.87
23478-PeCDF	678	2380	92.8	2390	92.6	0.22
123478-HxCDF	1620	3590	108	3570	106	1.87
123678-HxCDF	476	2410	105	2330	100	4.88
234678-HxCDF	480	2330	101	2370	102	0.99
123789-HxCDF	68.5	2240	118	2250	118	0.0
1234678-HpCDF	1830	3950	115	3850	109	5.36
1234789-HpCDF	162	1930	96.2	1880	92.8	3.60
OCDF	1380	4880	95.2	4760	91.1	4.40

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

MILES 4.22.16
GRY_PSUM v1.10

Processed By: _____ Date: 11/30/00

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	T005817		T005820		T005821		T005822	
Sample ID	TLI Blank		BASF-SMW-10		BASF-SMW-10 (MS)		BASF-MS/MSD (MSD)	
Units	pg/l		pg/l		pg/l		pg/l	
Extraction Date	11/21/2000		11/21/2000		11/21/2000		11/21/2000	
Analysis Date	11/25/2000		11/25/2000		11/25/2000		11/25/2000	
Instrument	T		T		T		T	
Matrix	WATER		WATER		WATER		WATER	
Extraction Type								
Analytes								
2378-TCDD	(2.1)		319		694		704	
12378-PeCDD	(2.0)		579		2290		2250	
123478-HxCDD	(2.6)		264		1960		2080	
123678-HxCDD	(2.6)		4880		14630		6870	
123789-HxCDD	(2.5)		2090		5310		4040	
1234678-HpCDD	(5.0)		81960	E	177190	E	93660	E
OCDD	(8.4)		326530	E	367280	E	347840	E
2378-TCDF	(1.5)		1880		2180		2210	
12378-PeCDF	(1.9)		(12.0)		4350		4220	
23478-PeCDF	(1.8)		678		2380		2390	
123478-HxCDF	(1.6)		1620		3590		3570	
123678-HxCDF	(1.5)		476		2410		2330	
234678-HxCDF	(1.7)		480		2330		2370	
123789-HxCDF	2.5	J	(68.5)	X	2240		2250	
1234678-HpCDF	(2.4)		1830		3950		3850	
1234789-HpCDF	(3.1)		162		1930		1880	
OCDF	(7.0)		1380		4880		4760	
TOTAL TCDD	(2.1)		5060					
TOTAL PeCDD	(2.0)		2950					
TOTAL HxCDD	(2.6)		50730	E				
TOTAL HpCDD	(5.0)		152270	E				
TOTAL TCDF	(1.5)		8100	X				
TOTAL PeCDF	(1.8)		4600	X				
TOTAL HxCDF	2.5		5970	X				
TOTAL HpCDF	(2.7)		2960					
Other Standards Percent Recovery Summary (% Rec)								
37Cl-TCDD	84.4		120		124		84.3	
Other Standards Percent Recovery Summary (% Rec)								
13C12-PeCDF 234	68.3		33.0	V	26.0	V	22.0	V
13C12-HxCDF 478	78.4		39.3	V	31.3	V	26.1	V
13C12-HxCDD 478	76.7		37.3	V	33.2	V	27.4	V
13C12-HpCDF 789	71.3		25.8		23.4	V	18.8	V
Other Standards Percent Recovery Summary (% Rec)								
13C12-HxCDF 789	89.2		42.3		37.0	V	29.9	V
13C12-HxCDF 234	84.8		36.9	V	30.4	V	25.6	V
Internal Standards Percent Recovery Summary (% Rec)								
13C12-2378-TCDF	73.9		47.3		38.6	V	32.3	V
13C12-2378-TCDD	67.1		40.6		33.7	V	27.8	V

Data File	T005817		T005820		T005821		T005822	
Sample ID	TLI Blank		BASF-SMW-10		BASF-SMW-10 (MS)		BASF-MS/MSD (MSD)	
Units	pg/l		pg/l		pg/l		pg/l	
Extraction Date	11/21/2000		11/21/2000		11/21/2000		11/21/2000	
Analysis Date	11/25/2000		11/25/2000		11/25/2000		11/25/2000	
Instrument	T		T		T		T	
Matrix	WATER		WATER		WATER		WATER	
Extraction Type								
Internal Standards Percent Recovery Summary (% Rec)								
13C12-PeCDF 123	61.7		34.2	V	28.7	V	23.8	V
13C12-PeCDD 123	75.1		38.8	V	31.6	V	26.7	V
13C12-HxCDF 678	79.6		37.2	V	30.8	V	25.2	V
13C12-HxCDD 678	79.9		40.0		34.4	V	27.4	V
13C12-HpCDF 678	74.1		29.5		26.0		21.1	V
13C12-HpCDD 678	62.5		31.0		30.0		22.3	V
13C12-OCDD	53.1		17.3	VRO	15.4	VRO	12.6	V

Data File	T005827	T005828
Sample ID	TLI LCS	TLI LCSD
Units	pg/l	pg/l
Extraction Date	11/21/2000	11/21/2000
Analysis Date	11/25/2000	11/25/2000
Instrument	T	T
Matrix	WATER	WATER
Extraction Type		
Analytes		
2378-TCDD	435	410
12378-PeCDD	1860	1950
123478-HxCDD	2050	2050
123678-HxCDD	2050	2180
123789-HxCDD	2100	2290
1234678-HpCDD	2240	2320
OCDD	4430	4770
2378-TCDF	402	406
12378-PeCDF	2180	2190
23478-PeCDF	2550	2960
123478-HxCDF	2050	2060
123678-HxCDF	2060	2150
234678-HxCDF	2170	2660
123789-HxCDF	2200	2960
1234678-HpCDF	2040	2200
1234789-HpCDF	1780	2160
OCDF	5020	5360
Other Standards Percent Recovery Summary (% Rec)		
37Cl-TCDD	69.0	88.8
Other Standards Percent Recovery Summary (% Rec)		
13C12-PeCDF 234	123	135
13C12-HxCDF 478	67.1	63.4
13C12-HxCDD 478	67.4	73.2
13C12-HpCDF 789	49.5	71.9
Other Standards Percent Recovery Summary (% Rec)		
13C12-HxCDF 789	77.4	98.5
13C12-HxCDF 234	71.9	81.3
Internal Standards Percent Recovery Summary (% Rec)		
13C12-2378-TCDF	55.2	70.7
13C12-2378-TCDD	56.8	76.9
13C12-PeCDF 123	98.6	103
13C12-PeCDD 123	137	159
13C12-HxCDF 678	65.1	64.7
13C12-HxCDD 678	69.0	77.7
13C12-HpCDF 678	58.0	73.0
13C12-HpCDD 678	46.8	59.9
13C12-OCDD	24.2 V	38.1

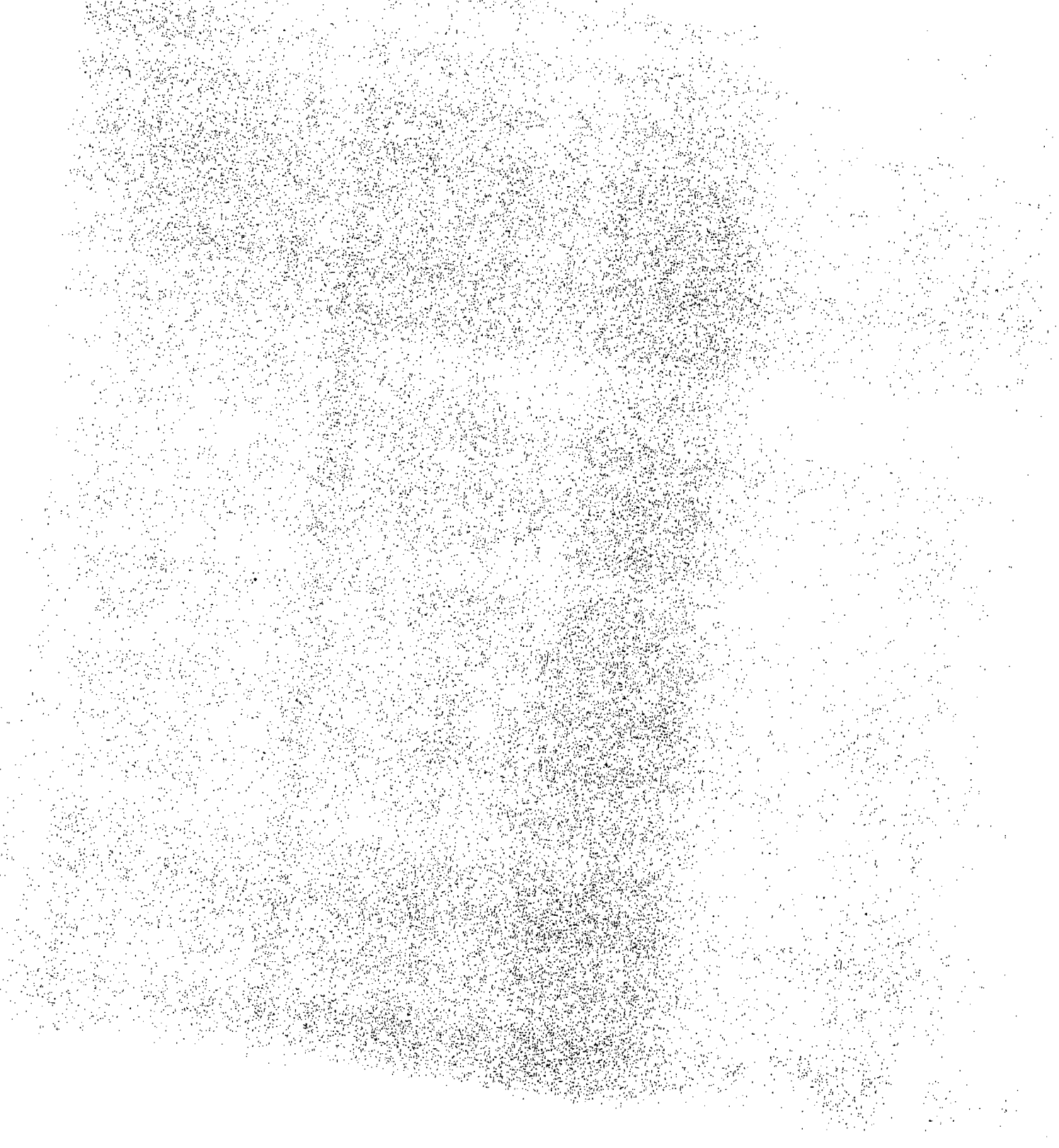
{Estimated Maximum Possible Concentration}, (Detection Limit).

Data File	P004342
Sample ID	BASF-SMW-10
Units	pg/l
Extraction Date	11/21/2000
Analysis Date	11/29/2000
Instrument	P
Matrix	WATER
Extraction Type	

Analytes		
2378-TCDF	1490	

Internal Standards Percent Recovery Summary (% Rec)

13C12-2378-TCDF	30.9	V



TriMatrix, Inc.

TLI Project: **52366** Method 8290 PCDD/PCDF Analysis (b
Client Sample: **TLI Blank** Analysis File: **T00581**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	/ /	Spike File:	**SPMIT32S**
TLI ID:	**TLI Blank**	Date Extracted:	**11/21/2000**	ICal:	**TF57140**
		Date Analyzed:	**11/25/2000**	ConCal:	**T005815**
Sample Size:	**1.000 L**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005817**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	ND	2.1				
1,2,3,7,8-PeCDD	ND	2.0				
1,2,3,4,7,8-HxCDD	ND	2.6				
1,2,3,6,7,8-HxCDD	ND	2.6				
1,2,3,7,8,9-HxCDD	ND	2.5				
1,2,3,4,6,7,8-HpCDD	ND	5.0				
1,2,3,4,6,7,8,9-OCDD	ND	8.4				
2,3,7,8-TCDF	ND	1.5				
1,2,3,7,8-PeCDF	ND	1.9				
2,3,4,7,8-PeCDF	ND	1.8				
1,2,3,4,7,8-HxCDF	ND	1.6				
1,2,3,6,7,8-HxCDF	ND	1.5				
2,3,4,6,7,8-HxCDF	ND	1.7				
1,2,3,7,8,9-HxCDF	2.5			1.11	33:26	J
1,2,3,4,6,7,8-HpCDF	ND	2.4				
1,2,3,4,7,8,9-HpCDF	ND	3.1				
1,2,3,4,6,7,8,9-OCDF	ND	7.0				

Totals	Conc. (pg/L)	Number	DL	EMPC	Flags
Total TCDD	ND		2.1		
Total PeCDD	ND		2.0		
Total HxCDD	ND		2.6		
Total HpCDD	ND		5.0		
Total TCDF	ND		1.5		
Total PeCDF	ND		1.8		
Total HxCDF	2.5	1			
Total HpCDF	ND		2.7		

MIT3_PSR v1.00, LARS 6.25

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Printed: 18:36 11/29/2000

TLI Project: **52366** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **TLI Blank** Analysis File: **T005817**

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	1480	73.9	40%-130%	0.75	24:38	___
$^{13}C_{12}$-2,3,7,8-TCDD	1340	67.1	40%-130%	0.79	25:21	___
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1230	61.7	40%-130%	1.48	28:37	___
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1500	75.1	40%-130%	1.45	29:40	___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1590	79.6	40%-130%	0.51	32:12	___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1600	79.9	40%-130%	1.20	32:53	___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1480	74.1	25%-130%	0.42	35:04	___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1250	62.5	25%-130%	1.04	36:05	___
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	2130	53.1	25%-130%	0.83	39:40	___

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1370	68.3	40%-130%	1.48	29:20	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1570	78.4	40%-130%	0.51	32:06	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1530	76.7	40%-130%	1.20	32:47	___
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1430	71.3	25%-130%	0.43	36:34	___

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	169	84.4	40%-130%	25:23	___

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1780	89.2	40%-130%	0.50	33:26	___
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1700	84.8	40%-130%	0.51	32:41	___

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.81	25:10	___
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.21	33:11	___

Data Reviewer: _____ 11/29/2000

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Printed: 18:36 11/29/2000

TriMatrix, Inc.

TLI Project: **52366** — Toxicity Equivalents Report
Client Sample: **TLI Blank** — Analysis File: **T005817**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/00**	Spike File:	**SPMIT32S**
TLI ID:	**TLI Blank**	Date Extracted:	**11/21/00**	ICal:	**TF57140**
		Date Analyzed:	**11/25/00**	ConCal:	**T005815**
Sample Size:	**1.000 L**	Dilution Factor:	**1**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005817**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/L)		TEF		Equivalent
2,3,7,8-TCDD	{2.1}	x	1.	=	2.1
1,2,3,7,8-PeCDD	{2.0}	x	0.5	=	1.0
1,2,3,4,7,8-HxCDD	{2.6}	x	0.1	=	0.26
1,2,3,6,7,8-HxCDD	{2.6}	x	0.1	=	0.26
1,2,3,7,8,9-HxCDD	{2.5}	x	0.1	=	0.25
1,2,3,4,6,7,8-HpCDD	{5.0}	x	0.01	=	0.050
1,2,3,4,6,7,8,9-OCDD	{8.4}	x	0.001	=	0.0084
TOTAL PCDD					3.9
2,3,7,8-TCDF	{1.5}	x	0.1	=	0.15
1,2,3,7,8-PeCDF	{1.9}	x	0.05	=	0.095
2,3,4,7,8-PeCDF	{1.8}	x	0.5	=	0.90
1,2,3,4,7,8-HxCDF	{1.6}	x	0.1	=	0.16
1,2,3,6,7,8-HxCDF	{1.5}	x	0.1	=	0.15
2,3,4,6,7,8-HxCDF	{1.7}	x	0.1	=	0.17
1,2,3,7,8,9-HxCDF	2.5	x	0.1	=	0.25
1,2,3,4,6,7,8-HpCDF	{2.4}	x	0.01	=	0.024
1,2,3,4,7,8,9-HpCDF	{3.1}	x	0.01	=	0.031
1,2,3,4,6,7,8,9-OCDF	{7.0}	x	0.001	=	0.0070
TOTAL PCDF					1.94

Total EPA TEFs, 1989a: 5.9 pg/L

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

GRY_TEF v1.08, MILES 4.22.16

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Printed: 10:21 11/30/00

Initial ....Date...

Data Review By: JCa 11/29/00

Calculated Noise Height: 0.04

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 T005817B.dbf
11/29/2000 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_I....	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				0.860-1.077			
304-306	DC	NL					Height	0.11	0.06	0.05				
	DC	SN		RO	21:50		5.67	0.05			0.886			
	DC	SN		RO	23:19		2.00	0.27			0.947			
D	d	SN		RO	23:51		0.94	0.89			0.968			
D	d	SN		RO	24:39		1.68	0.55			1.001	2378-TCDF		AN
	DC	SN		RO	25:21		1.08	0.23			1.029			
304-306			0 Peaks					0.00						
13C12-TCDF							0.65-0.89				0.959-1.041			
316-318	DC	NL					Height	0.11	0.05	0.06				
					24:13	RO	0.57	2.28	0.99	1.74	0.983			
					24:38		0.75	523.92	224.51	299.41	1.000	13C12-2378-TCDF		ISO
							Height	132.79	57.04	75.75				
					25:03		0.67	4.08	1.63	2.45	1.017			
316-318			3 Peaks					530.28						

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

TCDD							0.65-0.89				0.890-1.045			
320-322	DC	NL					Height	0.10	0.05	0.05				
	DC	SN		RO	24:37		1.45	0.39			0.971			
	DC	SN			25:22		0.80	0.54			1.001	2378-TCDD		AN
320-322			0 Peaks					0.00						
37Cl-TCDD											0.921-1.079			
328	DC	NL					Height	0.06	0.06					
	DC	WL			22:37			0.07			0.892			
	DC	WL			22:43			0.08			0.896			
	DC	WL			22:48			0.06			0.899			
	DC	WL			22:51			0.08			0.901			
	DC	WL			22:56			0.06			0.905			
	DC	WL			23:00			0.09			0.907			
	DC	WL			23:03			0.15			0.909			
	DC	WL			23:11			0.07			0.915			
	DC	WL			23:19			0.04			0.920			
	DC	SN			23:21			0.13			0.921			
	DC	SN			23:30			0.11			0.927			
	DC	SN			23:35			0.10			0.930			
	DC	SN			23:43			0.06			0.936			
	DC	SN			23:48			0.05			0.939			
					23:58			0.40	0.40		0.945			
	DC	SN			24:14			0.09			0.956			
	DC	SN			24:26			0.07			0.964			

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		24:28			0.09			0.965			
	DC	SN		24:31			0.08			0.967			
				24:58			0.19	0.19		0.985			
	DC	SN		25:04			0.08			0.989			
				25:23			41.51	41.51		1.001	37Cl-TCDD		CLS
				25:37			0.35	0.35		1.011			
	DC	SN		25:48			0.16			1.018			
	DC	SN		25:55			0.07			1.022			
	DC	SN		26:00			0.07			1.026			
	DC	SN		26:02			0.03			1.027			
	DC	SN		26:07			0.18			1.030			
				26:21			0.18	0.18		1.039			
	DC	SN		26:29			0.12			1.045			
	DC	SN		26:38			0.04			1.051			
	DC	SN		26:41			0.09			1.053			
	DC	SN		26:53			0.10			1.060			
328		5	Peaks				42.63						
13C12-TCDD				0.65-0.89						0.921-1.079			
332-334	DC	NL			Height		0.20	0.14	0.06				
				25:10		0.81	-552.94	246.93	306.01	0.993	13C12-1234-TCDD		RS1
				25:21		0.79	390.09	172.42	217.67	1.000	13C12-2378-TCDD		IS1
					Height		102.91	44.94	57.97				
				25:40	RO	0.27	0.71	0.31	1.16	1.012			
332-334		3	Peaks				943.74						
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF				1.32-1.78						0.923-1.064			
340-342	DC	NL			Height		0.10	0.04	0.06				
	DC	SN		29:20	RO	0.96	0.36			1.025	23478-PeCDF		AN
	DC	SN		30:05	RO	0.46	0.10			1.051			
340-342		0	Peaks				0.00						
13C12-PeCDF				1.32-1.78						0.860-1.140			
352-354	DC	NL			Height		0.09	0.04	0.05				
				27:47	RO	1.25	1.30	0.64	0.51	0.971			
				28:17	RO	1.21	0.71	0.34	0.28	0.988			
				28:37		1.48	409.02	243.94	165.08	1.000	13C12-PeCDF 123		IS2
					Height		118.19	70.19	48.00				
				28:54	RO	1.10	5.89	2.54	2.31	1.010			
				29:20		1.48	448.39	267.94	180.45	1.025	13C12-PeCDF 234		SUR1
				29:40	RO	1.13	1.84	0.81	0.72	1.037			
				30:19		1.36	4.42	2.55	1.87	1.059			
352-354		7	Peaks				871.57						
---------- Above: PeCDF / PeCDD Follows ----------													
PeCDD				1.32-1.78						0.933-1.021			
356-358	DC	NL			Height		0.09	0.05	0.04				
	DC	SN		29:05	RO	1.25	0.10			0.980			
	DC	SN		29:14	RO	0.25	0.05			0.985			

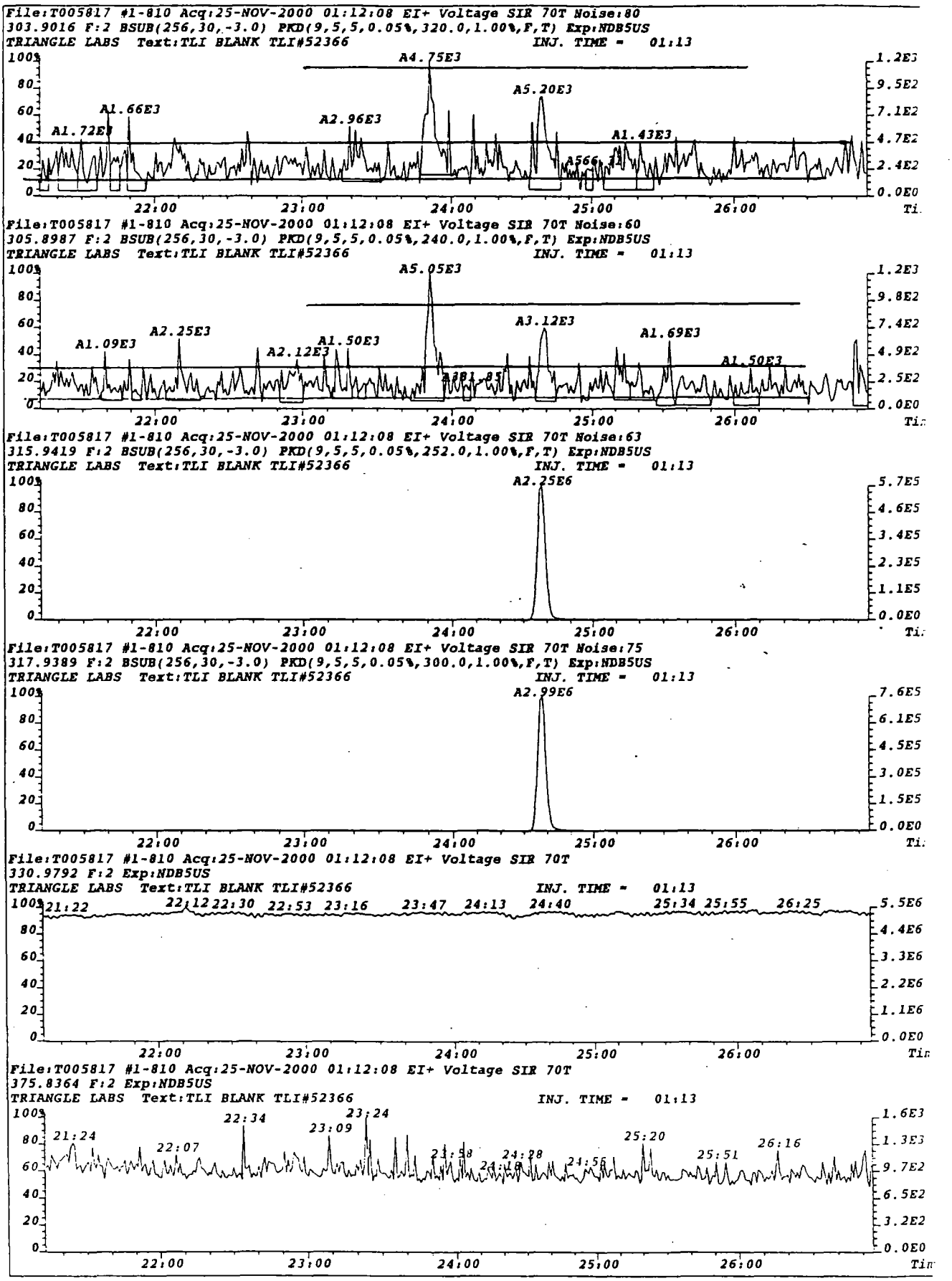
Compound/ M_Z....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
	DC	SN		29:20	RO	7.00	0.10			0.989			
	DC	SN		29:31	RO	0.70	0.12			0.995			
	DC	SN		29:42	RO	0.58	0.36			1.001	12378-PeCDD	AN	
	DC	SN		29:57	RO	2.38	0.20			1.010			
	DC	SN		30:10	RO	0.56	0.16			1.017			
356-358		0	Peaks				0.00						
13C12-PeCDD				1.32-1.78						0.865-1.135			
368-370	DC	NL				Height	0.10	0.06	0.04				
				28:34		1.66	1.86	1.16	0.70	0.963			
				28:45	RO	1.26	1.86	0.92	0.73	0.969			
				29:40		1.45	283.09	167.77	115.32	1.000	13C12-PeCDD 123	IS3	
						Height	94.92	56.59	38.33				
				30:07	RO	1.04	0.69	0.28	0.27	1.015			
368-370		4	Peaks				287.50						
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF				1.05-1.43						0.961-1.046			
374-376	DC	NL				Height	0.07	0.04	0.03				
	DC	SN		31:06	RO	0.67	0.04			0.966			
	DC	SN		31:33	RO	4.00	0.02			0.980			
	DC	SN		31:39	RO	0.29	0.07			0.983			
D	d	SN		32:07		1.32	0.44			0.997	123478-HxCDF	AN	
	DC	SN		32:14	RO	0.77	0.36			1.001	123678-HxCDF	AN	
D	d	SN		32:43	RO	0.37	0.13			1.016	234678-HxCDF	AN	
M				33:26		1.11	0.38	0.20	0.18	1.038	123789-HxCDF	AN	J
374-376		1	Peak				0.38						
13C12-HxCDF				0.43-0.59						0.876-1.124			
384-386	DC	NL				Height	0.07	0.04	0.03				
				31:09		0.58	1.12	0.41	0.71	0.967			
				31:17	RO	0.63	1.15	0.39	0.62	0.972			
				32:06		0.51	366.88	124.21	242.67	0.997	13C12-HxCDF 478	SUR2	
				32:12		0.51	378.08	127.92	250.16	1.000	13C12-HxCDF 678	IS4	
						Height	123.71	41.72	81.99				
				32:30	RO	0.69	0.98	0.33	0.48	1.009			
				32:41		0.51	367.54	123.59	243.95	1.015	13C12-HxCDF 234	ALT2	
				32:58	RO	0.25	0.36	0.12	0.48	1.024			
				33:04		0.43	0.63	0.19	0.44	1.027			
				33:26		0.50	283.96	94.99	188.97	1.038	13C12-HxCDF 789	ALT1	
				33:49	RO	0.88	0.86	0.29	0.33	1.050			
384-386		10	Peaks				1,401.56						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD				1.05-1.43						0.956-1.013			
390-392	DC	NL				Height	0.07	0.03	0.04				
	DC	SN		31:39	RO	0.71	0.09			0.962			
	DC	SN		31:58	RO	4.00	0.04			0.972			
	DC	SN		32:25	RO	1.00	0.16			0.986			
	DC	SN		32:32	RO	0.67	0.04			0.989			

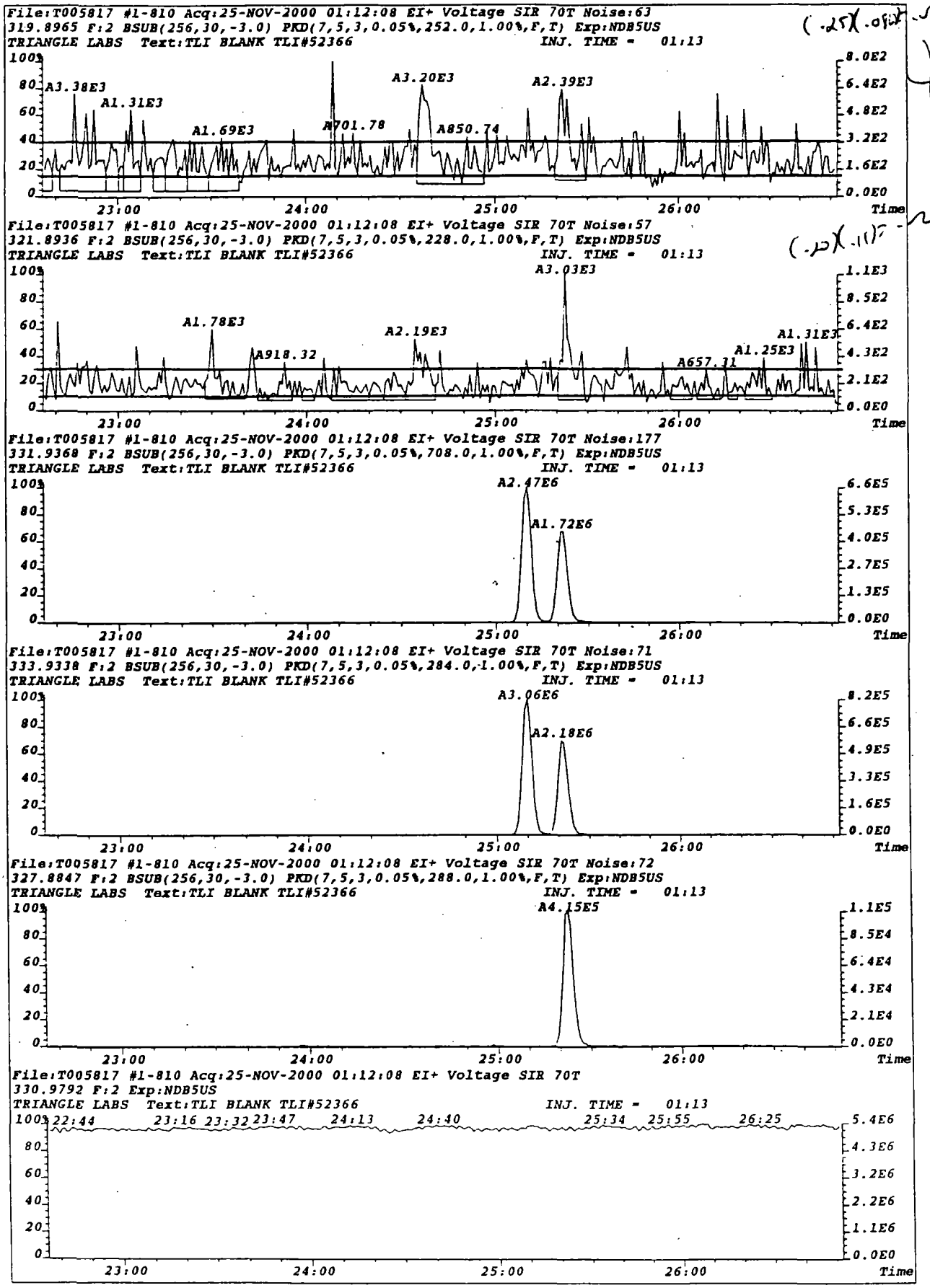
Compound/ M_Z....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
	DC	SN		32:41	RO	3.14	0.16			0.994			
390-392		0	Peaks				0.00						
13C12-HxCDD				1.05-1.43						0.970-1.030			
402-404	DC	NL				Height	0.09	0.04	0.05				
				32:17	RO	1.00	1.59	0.71	0.71	0.982			
				32:28	RO	1.75	0.27	0.21	0.12	0.987			
				32:47		1.20	235.90	128.77	107.13	0.997	13C12-HxCDD	478	SUR3
				32:53		1.20	237.37	129.33	108.04	1.000	13C12-HxCDD	678	IS5
						Height	76.41	41.23	35.18				
				33:11		1.21	327.32	179.05	148.27	1.009	13C12-HxCDD	789	RS2
402-404		5	Peaks				802.45						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF				0.88-1.20						0.995-1.048			
408-410	DC	NL				Height	0.08	0.04	0.04				
	DC	SN		35:04	RO	0.86	0.37			1.000	1234678-HpCDF		AN
	DC	SN		35:10	RO	0.73	0.16			1.003			
	DC	SN		35:28	RO	1.67	0.06			1.011			
	DC	SN		36:34	RO	0.60	0.24			1.043			
	DC	WH		36:48	RO	0.60	0.18			1.049			
408-410		0	Peaks				0.00						
13C12-HpCDF				0.37-0.51						0.943-1.114			
418-420	DC	NL				Height	0.09	0.05	0.04				
				35:04		0.42	235.41	69.43	165.98	1.000	13C12-HpCDF	678	IS6
						Height	67.28	20.14	47.14				
	DC	SN		35:28	RO	0.54	0.49			1.011			
	DC	SN		35:36	RO	0.82	0.46			1.015			
				36:34		0.43	176.17	53.04	123.13	1.043	13C12-HpCDF	789	SUR4
413-420		2	Peaks				411.58						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD				0.88-1.20						0.974-1.005			
424-426	DC	NL				Height	0.08	0.04	0.04				
424-426		0	Peaks				0.00						
13C12-HpCDD				0.88-1.20						0.972-1.028			
436-438	DC	NL				Height	0.12	0.06	0.06				
				35:20		0.97	0.73	0.36	0.37	0.979			
				36:05		1.04	175.45	89.46	85.99	1.000	13C12-HpCDD	678	IS7
						Height	47.10	24.22	22.88				
436-438		2	Peaks				176.18						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF				0.76-1.02						0.899-1.101			
442-444	DC	NL				Height	0.08	0.04	0.04				
	DC	WL		35:01		0.94	0.35			0.883			
	DC	WL		35:14	RO	2.33	0.06			0.888			

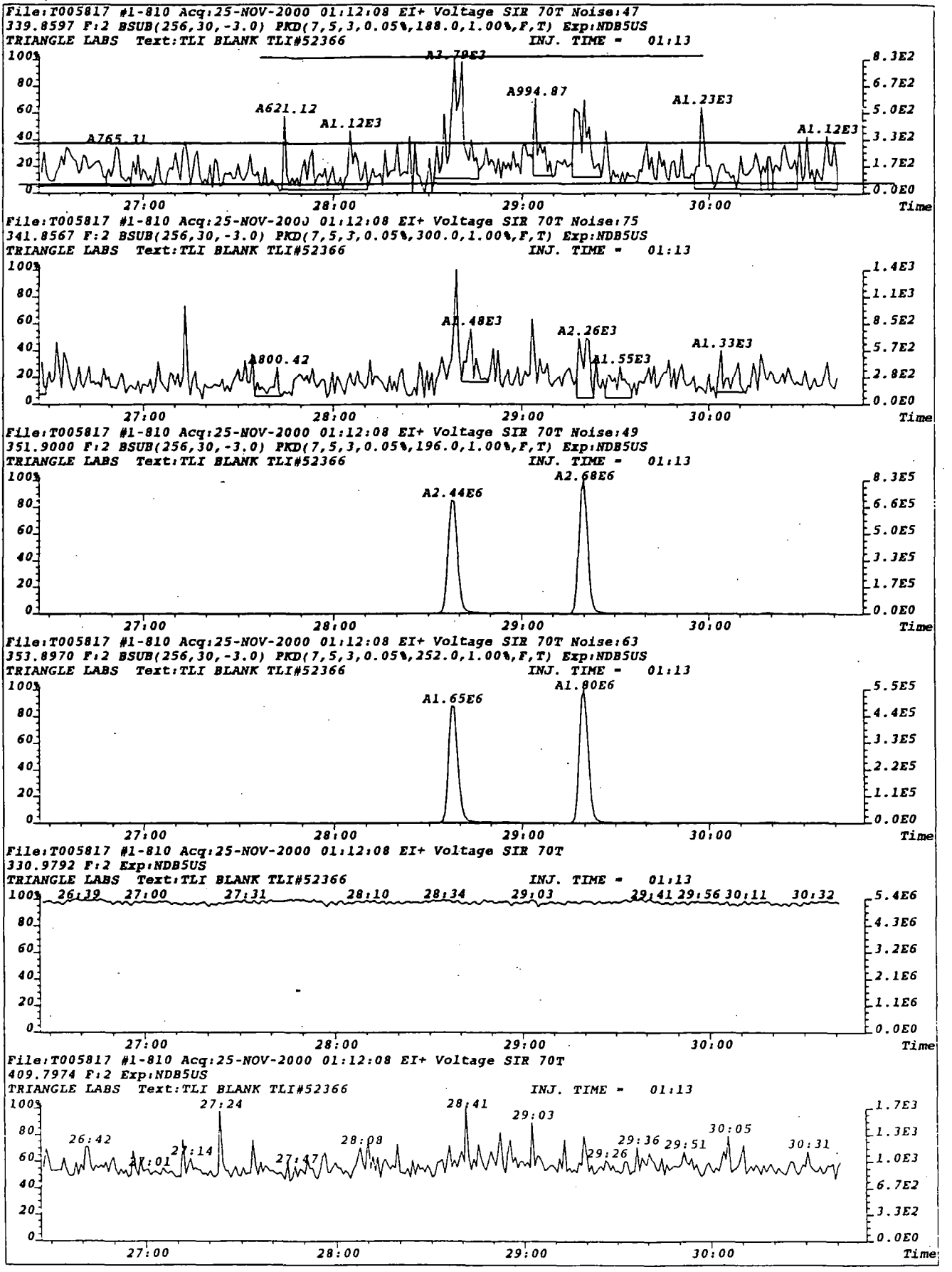
Compound / M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
		DC	WL	35:23	RO	4.00	0.04			0.892			
		DC	WL	35:32	RO	1.25	0.23			0.896			
		DC	SN	35:43	RO	3.14	0.13			0.900			
		DC	SN	36:45	RO	0.18	0.06			0.926			
		DC	SN	37:02	RO	1.67	0.11			0.934			
		DC	SN	38:41	RO	2.00	0.21			0.975			
		DC	SN	39:00	RO	1.25	0.15			0.983			
	D	d	SN	39:51	RO	0.66	0.62			1.005	OCDF		AN
		DC	SN	40:00	RO	0.75	0.19			1.008			
		DC	SN	40:22	RO	1.11	0.17			1.018			
		DC	SN	40:36		1.00	0.14			1.024			
		DC	SN	40:43	RO	0.60	0.13			1.026			
		DC	SN	40:52	RO	2.56	0.17			1.030			
		DC	SN	41:05	RO	1.89	0.17			1.036			
		DC	SN	41:12	RO	1.33	0.17			1.039			
		DC	SN	42:09	RO	2.80	0.09			1.063			
		DC	SN	43:02	RO	0.71	0.11			1.085			
		DC	SN	43:30	RO	1.50	0.08			1.097			
		DC	SN	43:39	RO	1.22	0.17			1.100			
		DC	WH	44:06	RO	0.29	0.17			1.112			
		DC	WH	44:17	RO	0.57	0.17			1.116			
442-444		0	Peaks				0.00						
OCDD				0.76-1.02						0.899-1.101			
458-460		DC	NL			Height	0.06	0.03	0.03				
		DC	SN	39:40	RO	0.35	0.23			1.000	OCDD		AN
458-460		0	Peaks				0.00						
13C12-OCDD				0.76-1.02						0.996-1.004			
470-472		DC	NL			Height	0.08	0.04	0.04				
				39:40		0.83	242.80	109.89	132.91	1.000	13C12-OCDD		IS8
						Height	51.97	23.17	28.80				
470-472		1	Peak				242.80						

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:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:80
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,320.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A4.75E3
A5.20E3
A1.66E3
A2.96E3
A1.72E3
A1.43E3
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:60
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,240.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A5.05E3
A3.12E3
A2.25E3
A1.09E3
A1.50E3
A2.12E3
A1.69E3
A1.50E3
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:63
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A2.25E6
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:75
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,300.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A2.99E6
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
22:00
23:00
24:00
25:00
26:00


File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:63
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A3.38E3
A1.31E3
A1.69E3
A701.78
A3.20E3
A850.74
A2.39E3
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:57
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,228.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A1.78E3
A918.32
A2.19E3
A3.03E3
A657.71
A1.25E3
A1.31E3
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:177
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,708.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A2.47E6
A1.72E6
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:71
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,284.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A3.06E6
A2.18E6
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:72
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,288.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A4.15E5
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
22:44 23:16 23:32 23:47 24:13 24:40 25:34 25:55 26:25
23:00 24:00 25:00 26:00 Time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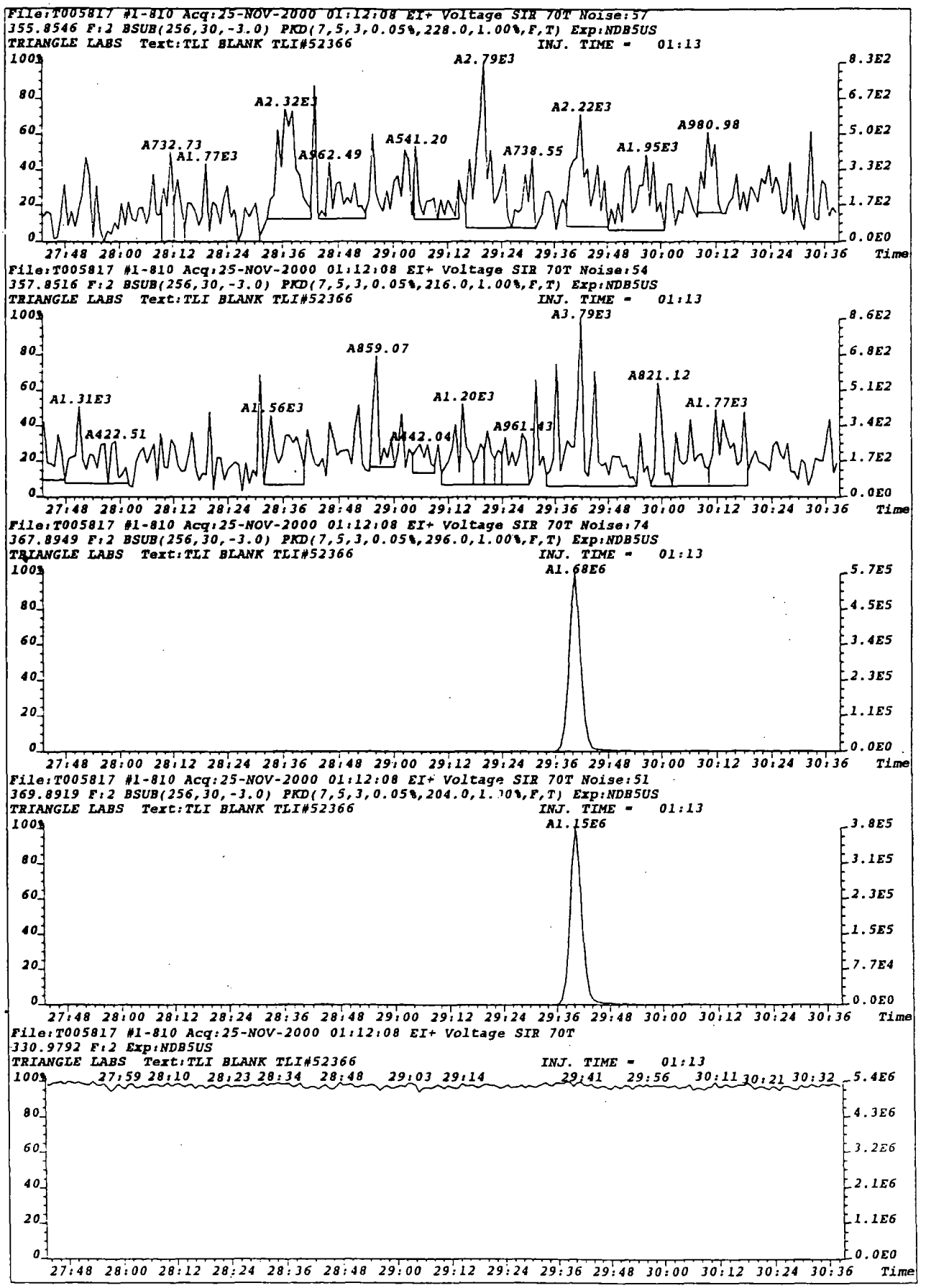
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,188.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A765.31
A621.12
A1.12E3
A3.79E3
A994.87
A1.23E3
A1.12E3
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:75
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,300.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A800.42
A1.48E3
A2.26E3
A1.55E3
A1.33E3
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:49
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,196.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A2.44E6
A2.68E6
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:63
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A1.65E6
A1.80E6
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
26:39 27:00 27:31 28:10 28:34 29:03 29:41 29:56 30:11 30:32
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
26:42
27:01
27:14
27:24
27:47
28:08
28:41
29:03
29:26
29:36
29:51
30:05
30:31
27:00
28:00
29:00
30:00
Time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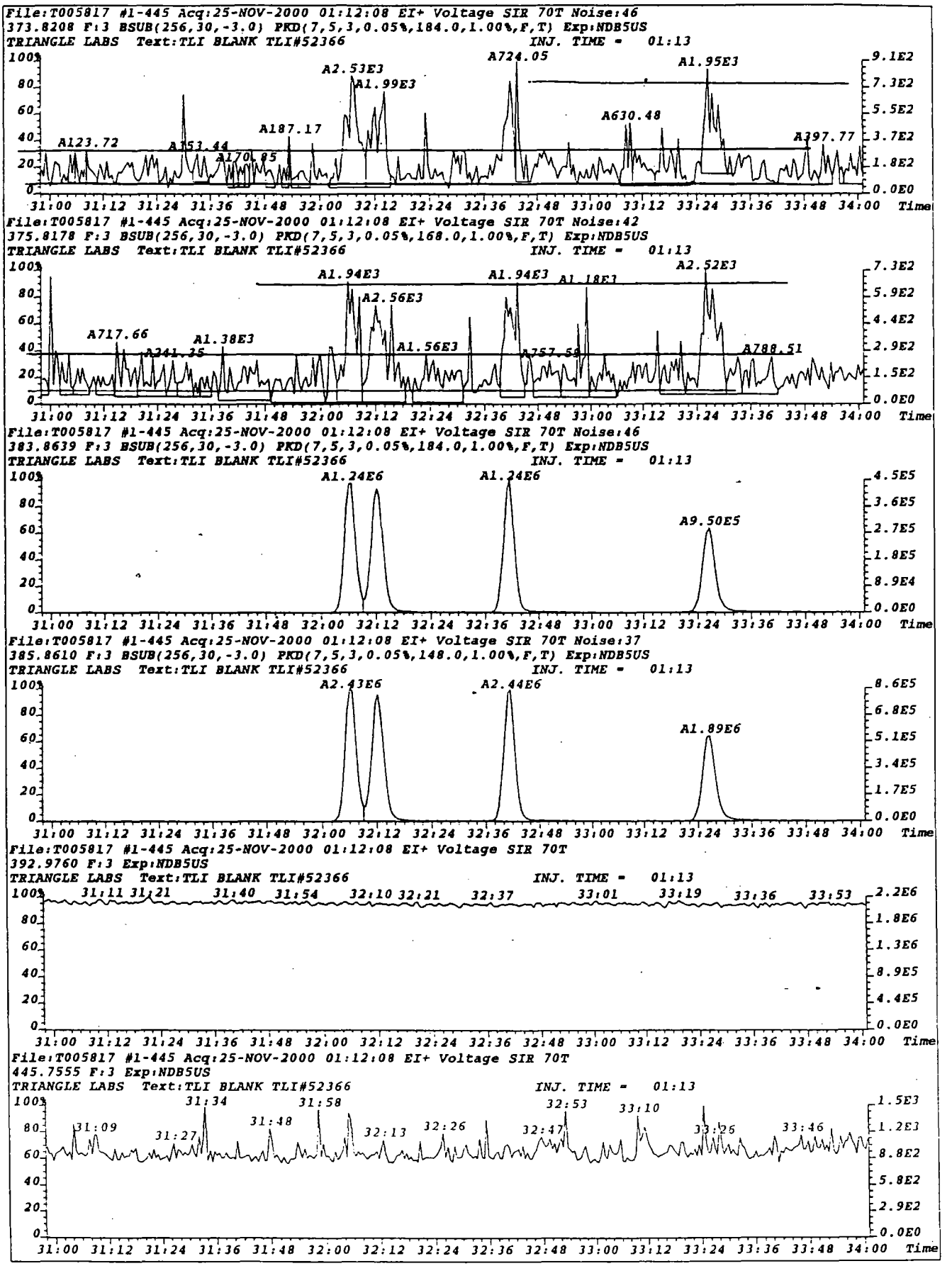
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,228.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366
INJ. TIME = 01:13
A732.73
A1.77E3
A2.32E3
A962.49
A541.20
A2.79E3
A738.55
A2.22E3
A1.95E3
A980.98
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:54
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,216.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366
INJ. TIME = 01:13
A1.31E3
A422.51
A1.56E3
A859.07
A1.20E3
A961.43
A3.79E3
A821.12
A1.77E3
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:74
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,296.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366
INJ. TIME = 01:13
A1.68E6
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:51
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,204.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366
INJ. TIME = 01:13
A1.15E6
File:T005817 #1-810 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366
INJ. TIME = 01:13
27:59 28:10 28:23 28:34 28:48 29:03 29:14 29:41 29:56 30:11 30:21 30:32
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 Time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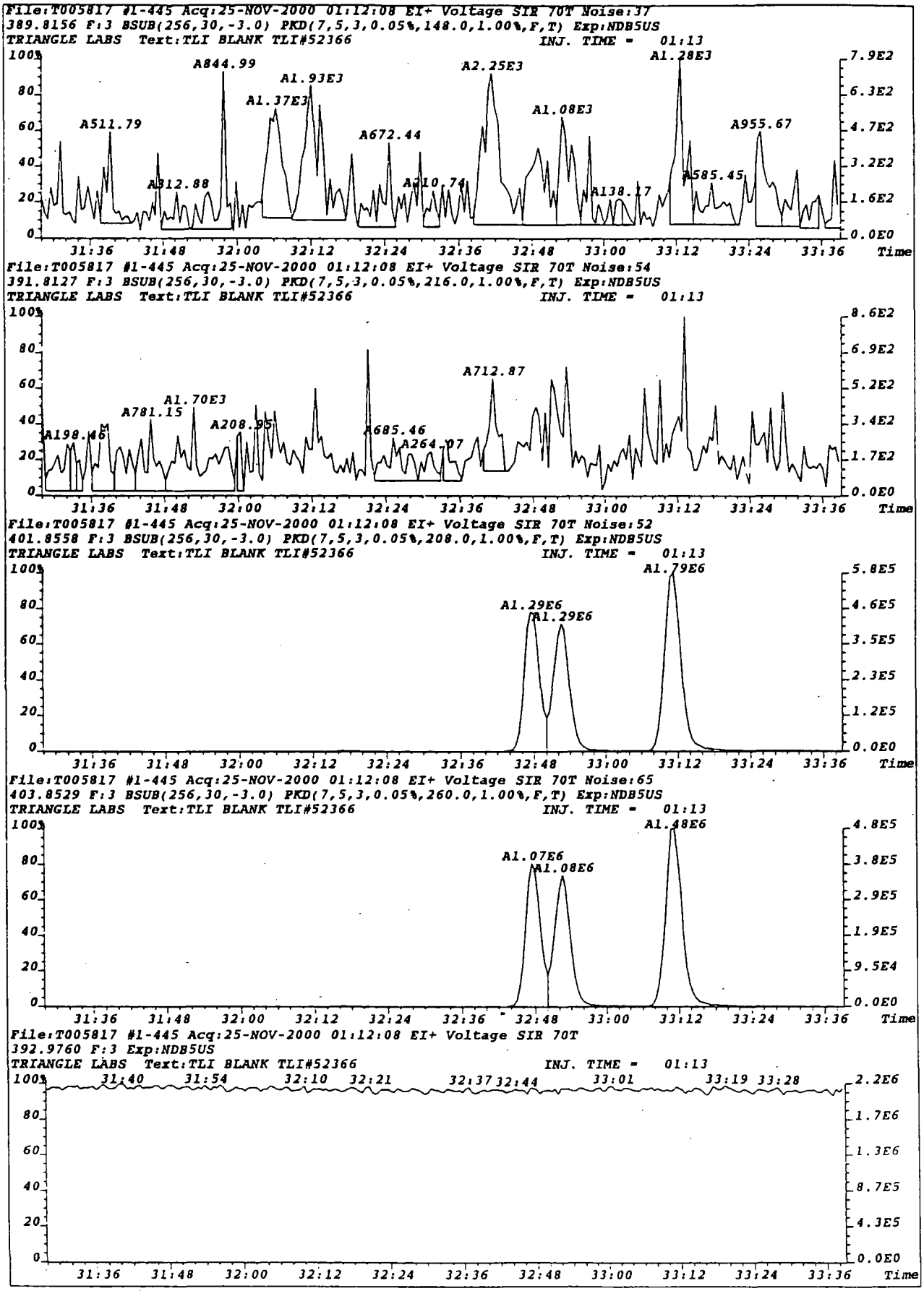
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,184.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366
INJ. TIME = 01:13
A724.05
A2.53E3
A1.99E3
A1.95E3
A187.17
A630.48
A123.72
A753.44
A170.05
A397.77
File:T005817 #1-445 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:42
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,168.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366
INJ. TIME = 01:13
A1.94E3
A1.94E3
A2.52E3
A2.56E3
A717.66
A1.38E3
A241.25
A1.56E3
A757.58
A788.51
File:T005817 #1-445 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:46
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,184.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366
INJ. TIME = 01:13
A1.24E6
A1.24E6
A9.50E5
File:T005817 #1-445 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:37
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366
INJ. TIME = 01:13
A2.43E6
A2.44E6
A1.89E6
File:T005817 #1-445 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366
INJ. TIME = 01:13
File:T005817 #1-445 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366
INJ. TIME = 01:13
Time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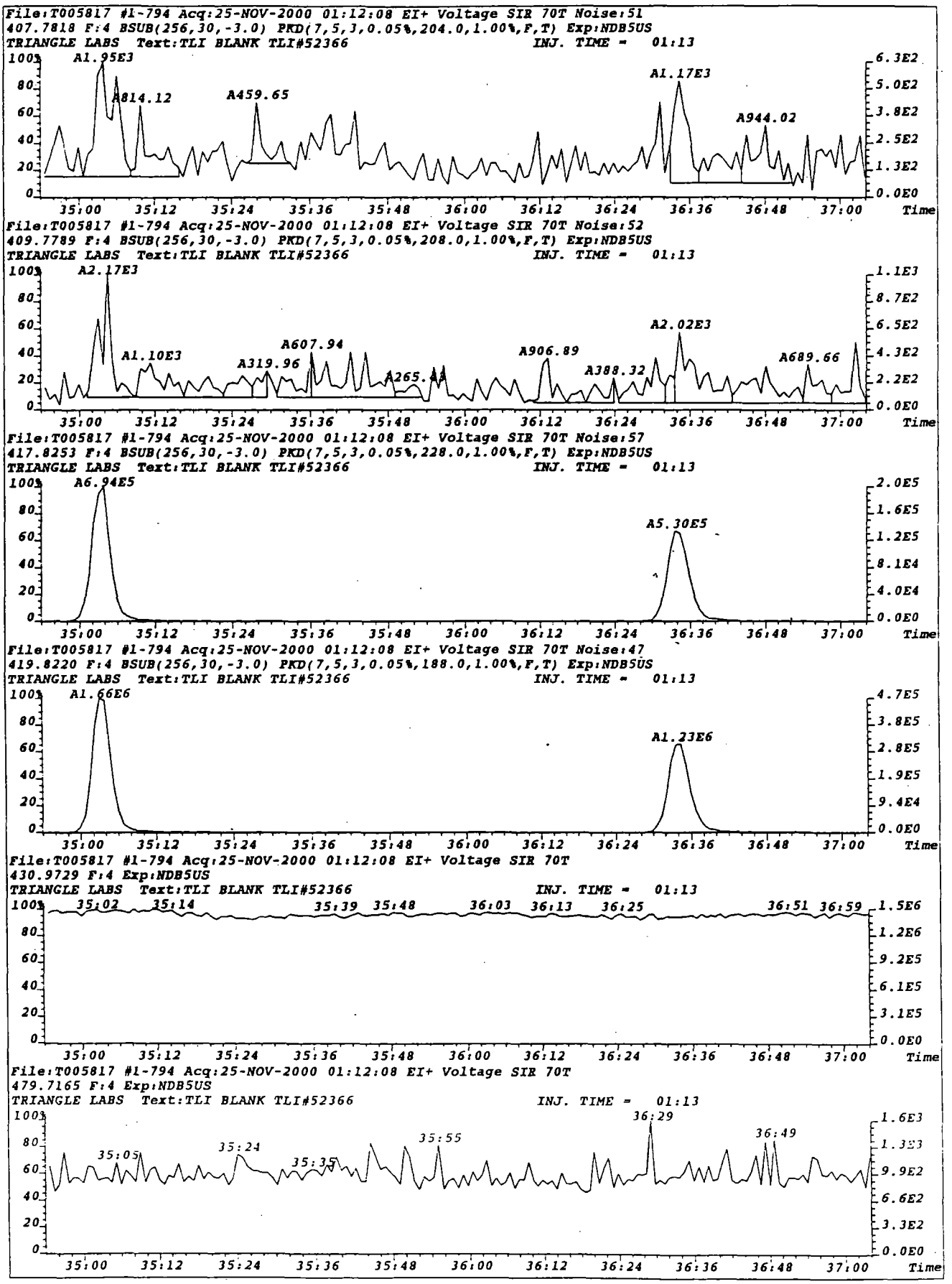
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A511.79
A312.88
A844.99
A1.37E3
A1.93E3
A672.44
A210.74
A2.25E3
A1.08E3
A138.17
A1.28E3
A585.45
A955.67
File:T005817 #1-445 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:54
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,216.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A198.46
A781.15
A1.70E3
A208.95
A685.46
A264.07
A712.87
File:T005817 #1-445 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:52
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,208.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A1.29E6
A1.29E6
A1.79E6
File:T005817 #1-445 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:65
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A1.07E6
A1.08E6
A1.48E6
File:T005817 #1-445 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
31:40 31:54 32:10 32:21 32:37 32:44 33:01 33:19 33:28
Time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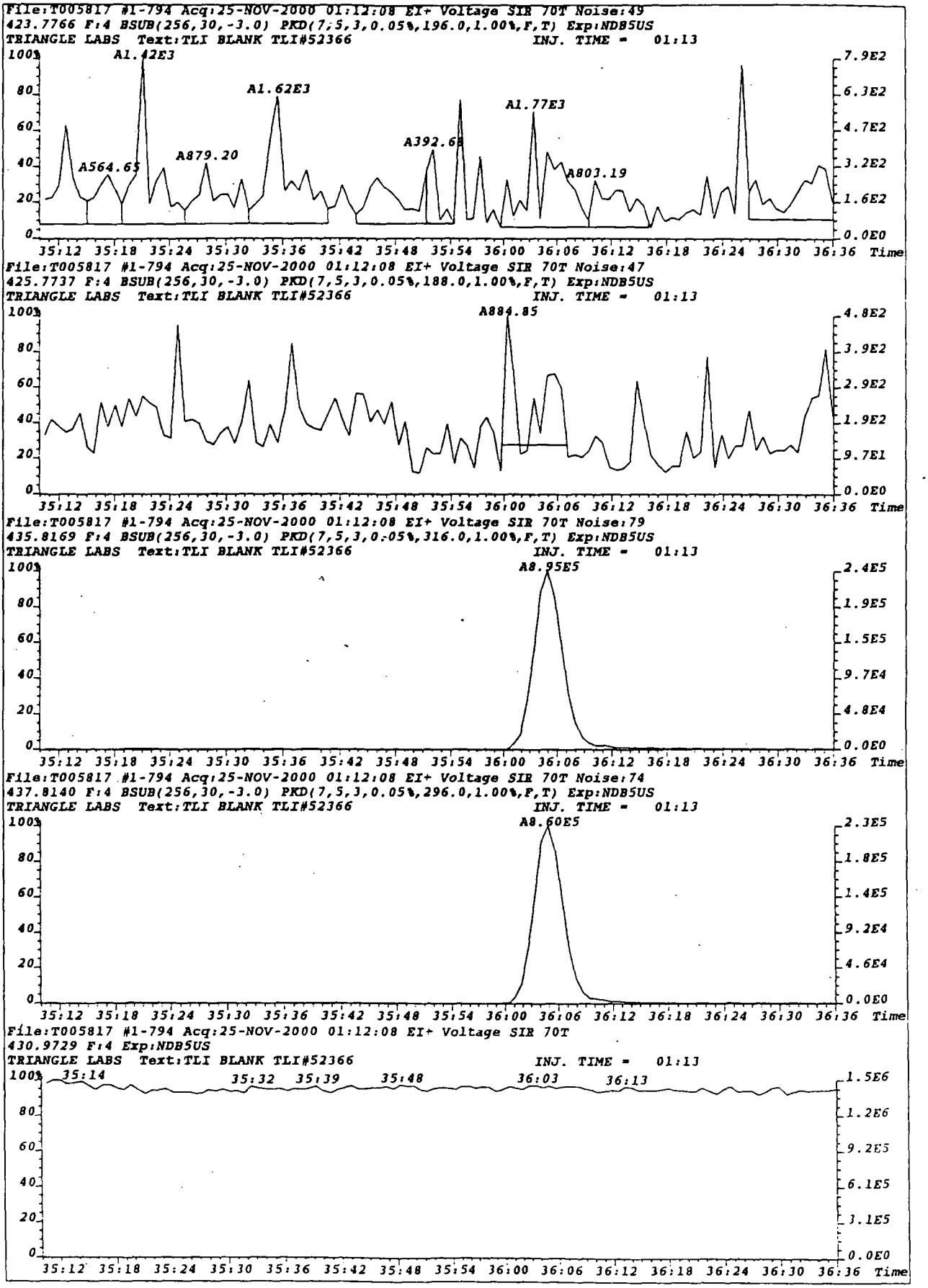
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,204.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A1.95E3
A814.12
A459.65
A1.17E3
A944.02
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:52
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,208.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A2.17E3
A1.10E3
A319.96
A607.94
A265.44
A906.89
A388.32
A2.02E3
A689.66
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:57
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,228.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A6.94E5
A5.30E5
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:47
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,188.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A1.66E6
A1.23E6
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
35:05
35:24
35:35
35:55
36:29
36:49
Time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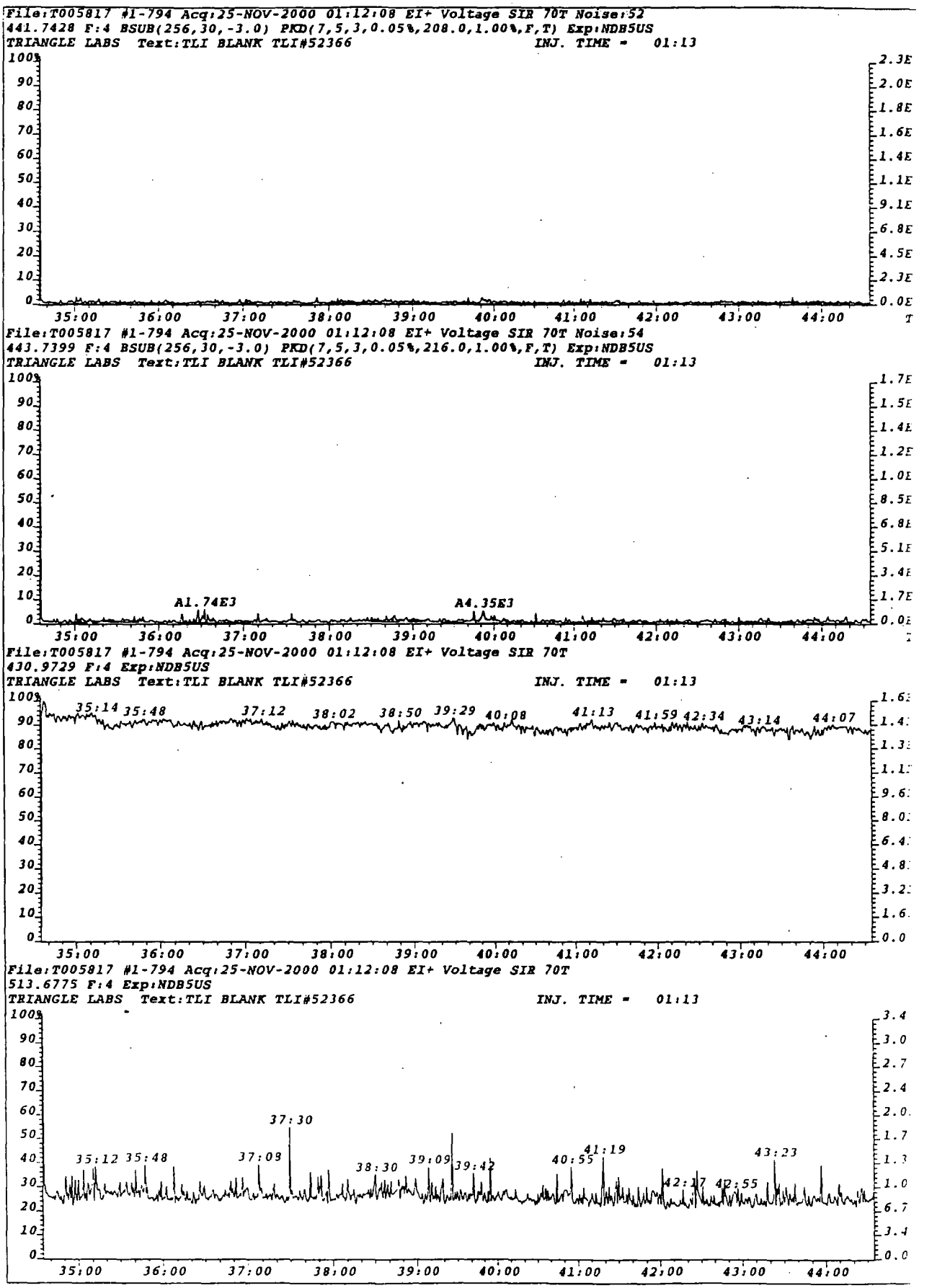
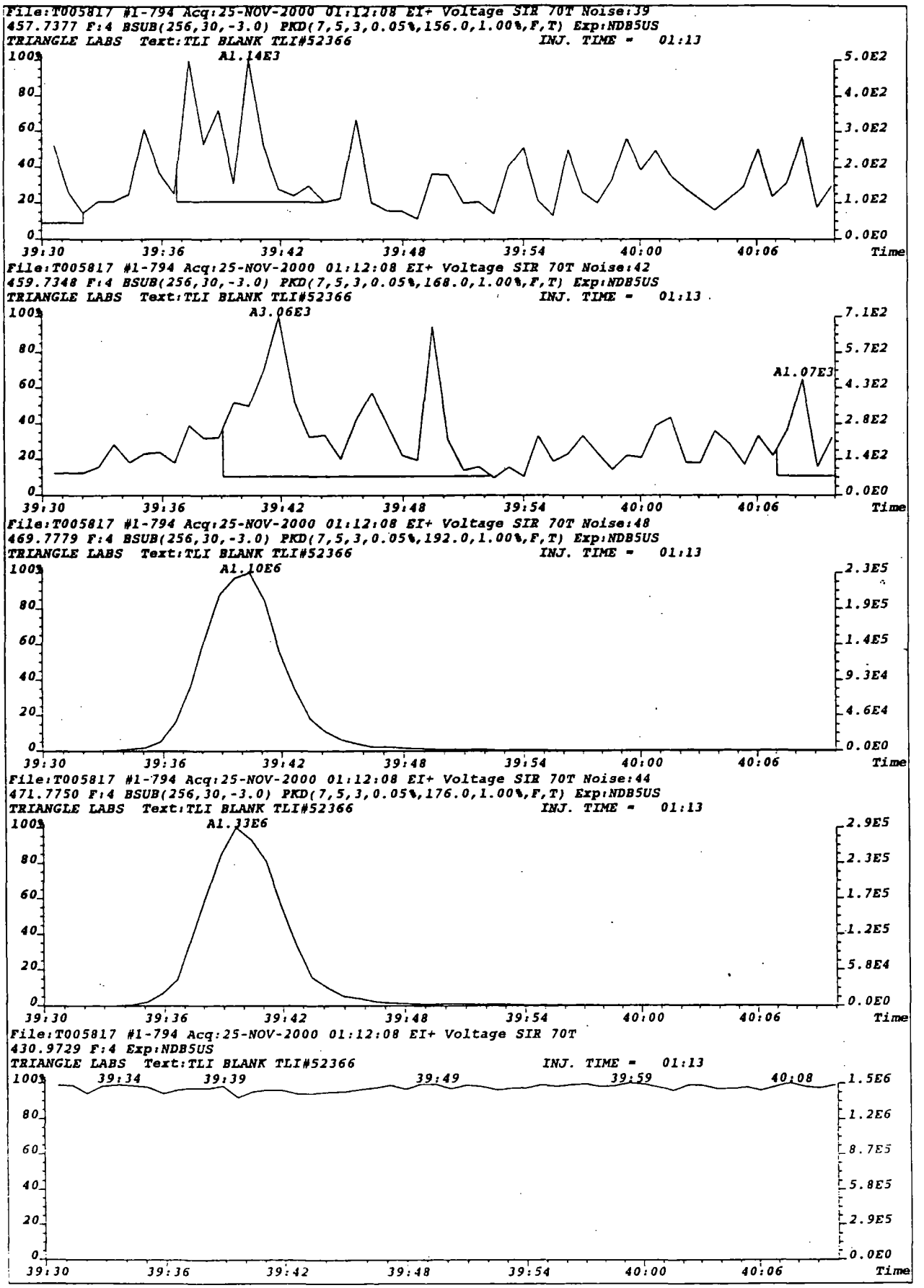
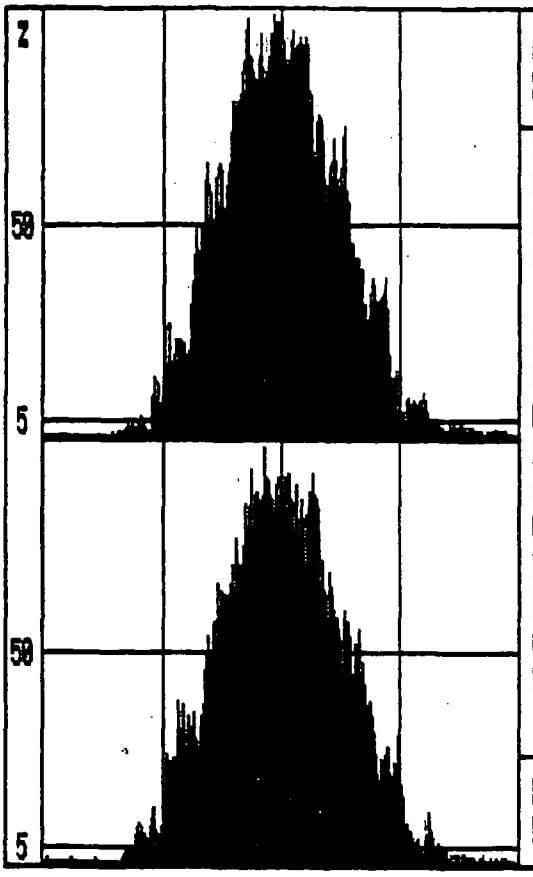
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,196.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A1.42E3
A1.62E3
A1.77E3
A564.65
A879.20
A803.19
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:47
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,188.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A884.85
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:79
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A8.95E5
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:74
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,296.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A8.60E5
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
35:14 35:32 35:39 35:48 36:03 36:13
35:12 35:18 35:24 35:30 35:36 35:42 35:48 35:54 36:00 36:06 36:12 36:18 36:24 36:30 36:36 Time


File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:52
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,208.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:54
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,216.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A1.74E3
A4.35E3
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
35:14 35:48 37:12 38:02 38:50 39:29 40:08 41:13 41:59 42:34 43:14 44:07
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
35:12 35:48 37:09 37:30 38:30 39:09 39:42 40:55 41:19 42:17 42:55 43:23
35:00 36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00


File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:39
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A1.14E3
5.0E2
4.0E2
3.0E2
2.0E2
1.0E2
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:42
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,168.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A3.06E3
A1.07E3
7.1E2
5.7E2
4.3E2
2.8E2
1.4E2
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:48
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,192.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A1.10E6
2.3E5
1.9E5
1.4E5
9.3E4
4.6E4
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T Noise:44
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,176.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
A1.33E6
2.9E5
2.3E5
1.7E5
1.2E5
5.8E4
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI BLANK TLI#52366 INJ. TIME = 01:13
39:34 39:39 39:49 39:59 40:08
1.5E6
1.2E6
8.7E5
5.8E5
2.9E5
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time

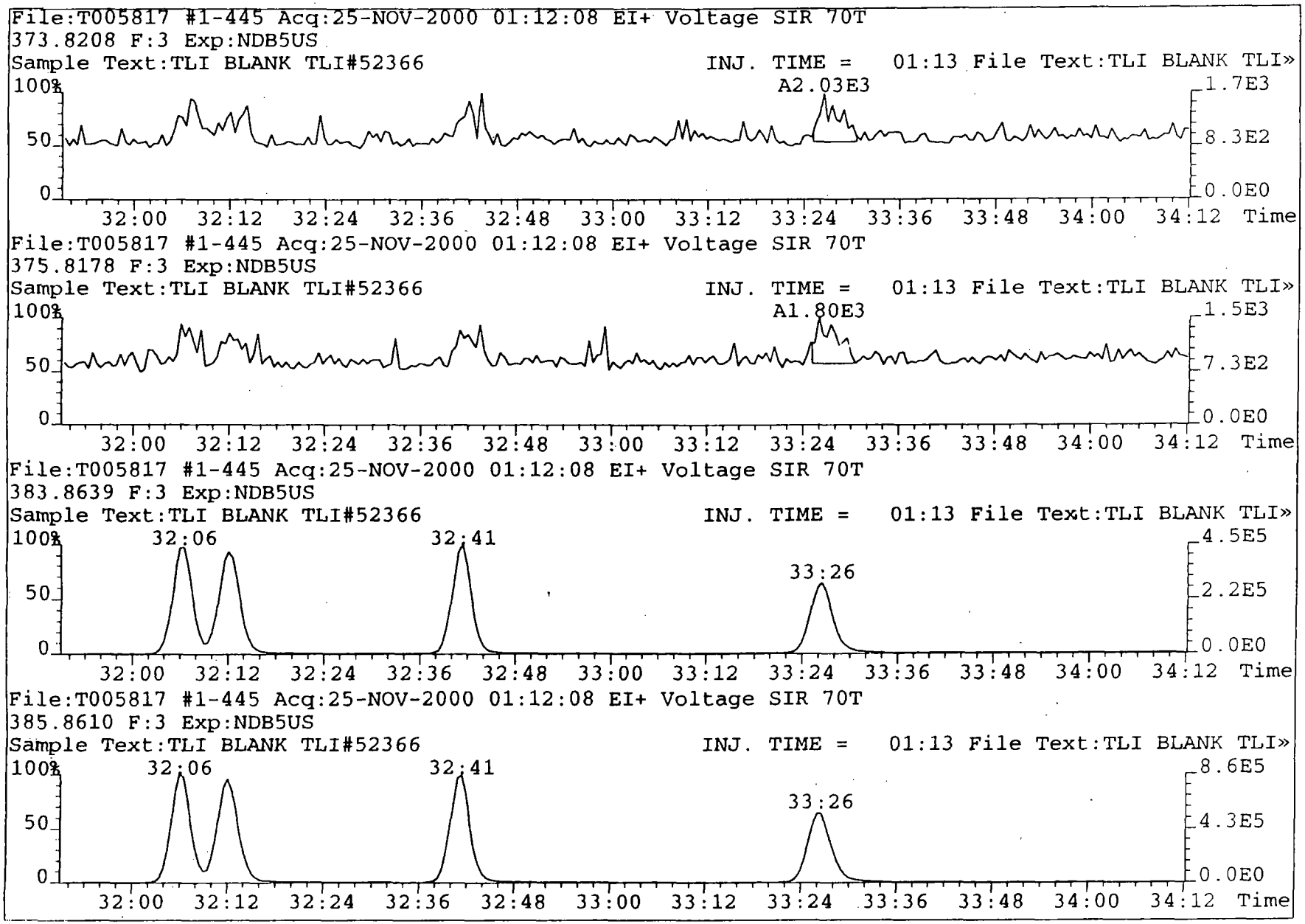


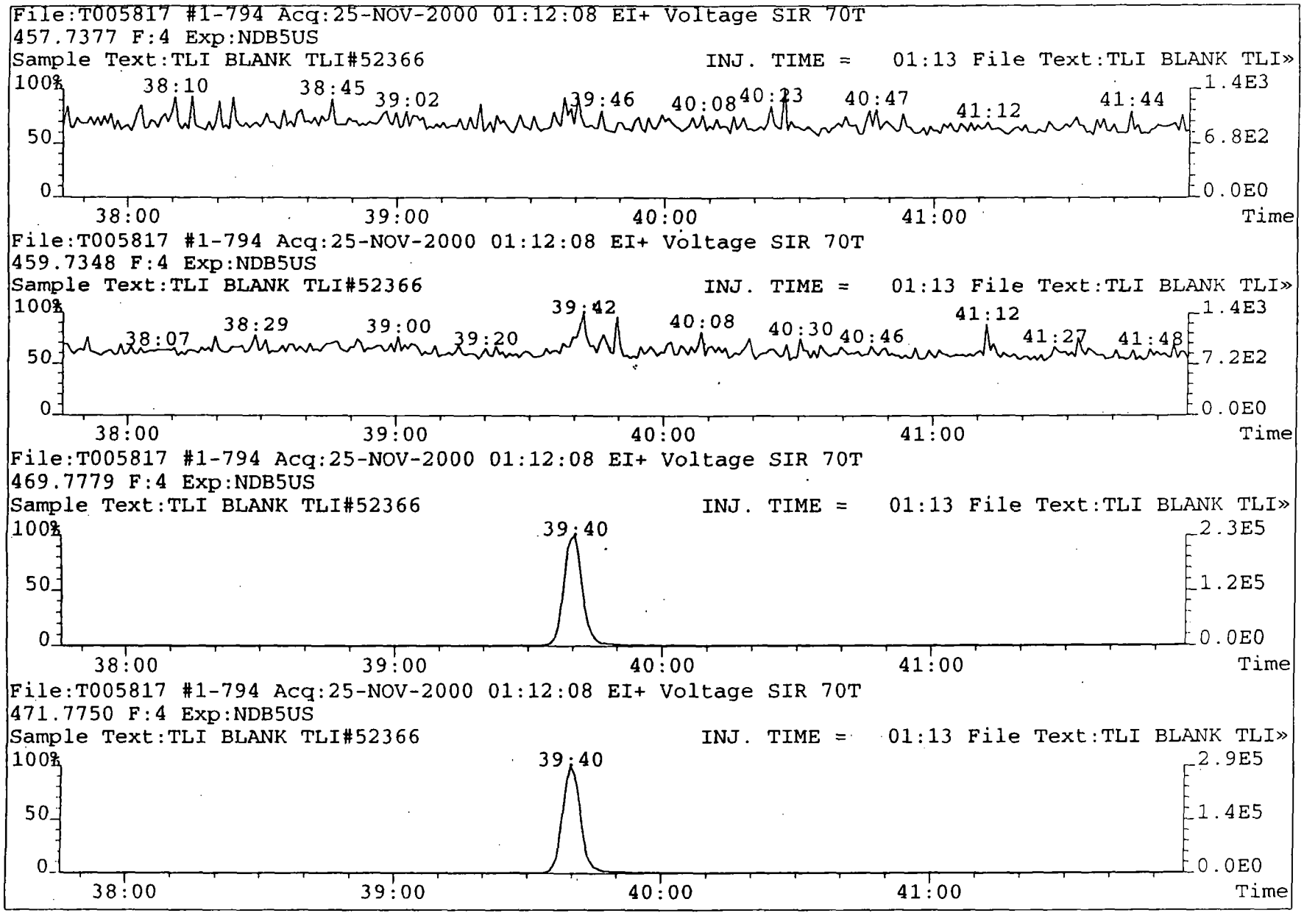
Channel	I	330.9792		Peak top	
Height	.74 volts		Span	200 ppm	

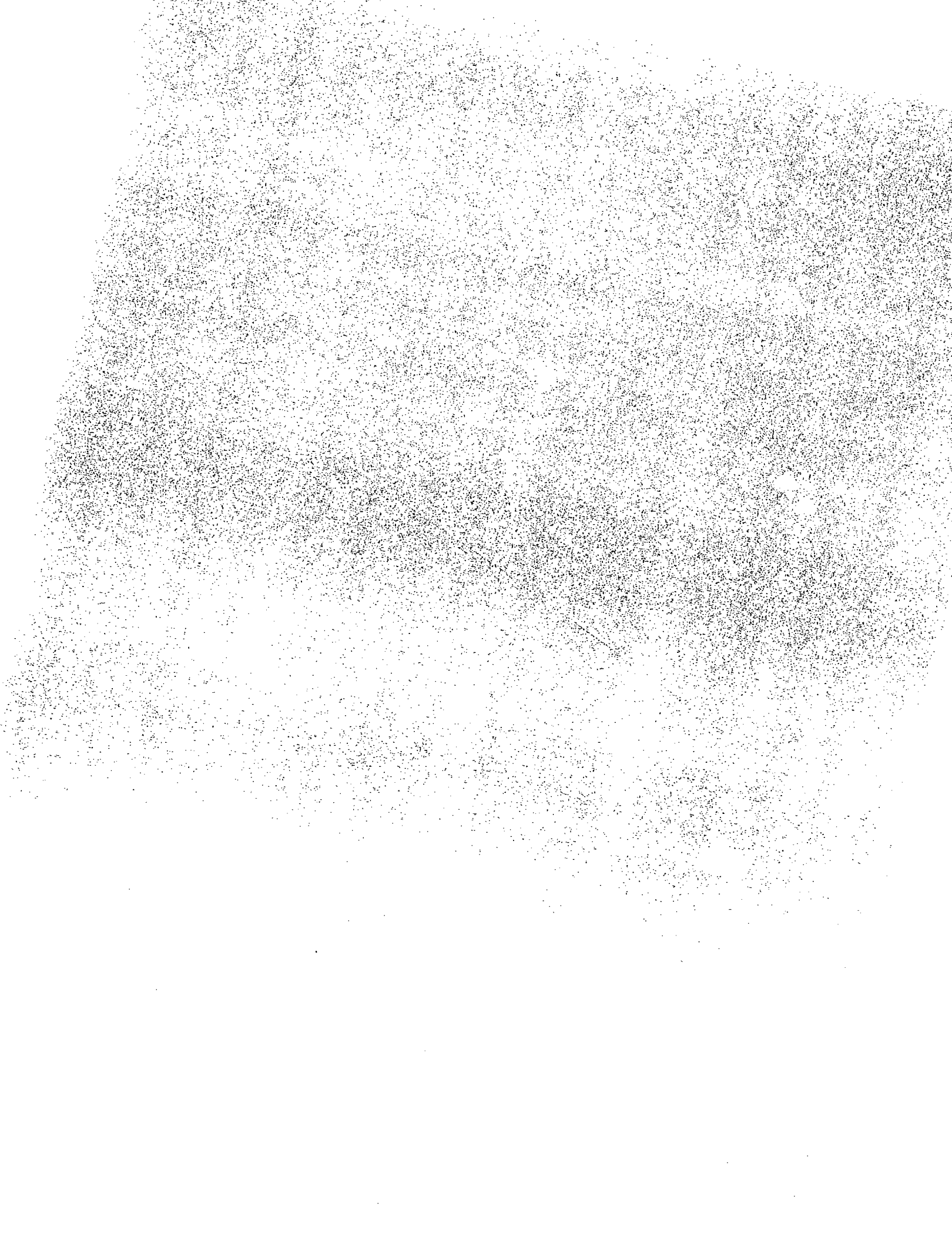
System file name	MOBSUS
Data file name	A:TN25001
Resolution	10000
Group number	2
Ionization mode	EI+
Switching	VOLTAGE
Ref. masses	292.9825, 416.9760

A	293	J	331	S	368
B	304	K	332	T	370
C	306	L	334	U	376
D	316	M	340	V	410
E	318	N	342		
F	320	O	352		
G	322	P	354		
H	328	Q	356		
I	331	R	358		

Ref. mass	416.9760			Peak top	
Height	.21 volts		Span	200 ppm	


File:T005817 #1-445 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
373.8208 F:3 Exp:NDB5US
Sample Text:TLI BLANK TLI#52366
INJ. TIME = 01:13 File Text:TLI BLANK TLI»
A2.03E3
100%
50
0
1.7E3
8.3E2
0.0E0
32:00 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 Time
File:T005817 #1-445 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
375.8178 F:3 Exp:NDB5US
Sample Text:TLI BLANK TLI#52366
INJ. TIME = 01:13 File Text:TLI BLANK TLI»
A1.80E3
100%
50
0
1.5E3
7.3E2
0.0E0
32:00 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 Time
File:T005817 #1-445 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
383.8639 F:3 Exp:NDB5US
Sample Text:TLI BLANK TLI#52366
INJ. TIME = 01:13 File Text:TLI BLANK TLI»
100%
32:06
32:41
33:26
50
0
4.5E5
2.2E5
0.0E0
32:00 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 Time
File:T005817 #1-445 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
385.8610 F:3 Exp:NDB5US
Sample Text:TLI BLANK TLI#52366
INJ. TIME = 01:13 File Text:TLI BLANK TLI»
100%
32:06
32:41
33:26
50
0
8.6E5
4.3E5
0.0E0
32:00 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 Time


File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
457.7377 F:4 Exp:NDB5US
Sample Text:TLI BLANK TLI#52366
INJ. TIME = 01:13 File Text:TLI BLANK TLI»
100%
50
0
38:10
38:45
39:02
39:46
40:08
40:23
40:47
41:12
41:44
1.4E3
6.8E2
0.0E0
38:00
39:00
40:00
41:00
Time
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
459.7348 F:4 Exp:NDB5US
Sample Text:TLI BLANK TLI#52366
INJ. TIME = 01:13 File Text:TLI BLANK TLI»
100%
50
0
38:07
38:29
39:00
39:20
39:42
40:08
40:30
40:46
41:12
41:27
41:48
1.4E3
7.2E2
0.0E0
38:00
39:00
40:00
41:00
Time
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
469.7779 F:4 Exp:NDB5US
Sample Text:TLI BLANK TLI#52366
INJ. TIME = 01:13 File Text:TLI BLANK TLI»
100%
50
0
39:40
2.3E5
1.2E5
0.0E0
38:00
39:00
40:00
41:00
Time
File:T005817 #1-794 Acq:25-NOV-2000 01:12:08 EI+ Voltage SIR 70T
471.7750 F:4 Exp:NDB5US
Sample Text:TLI BLANK TLI#52366
INJ. TIME = 01:13 File Text:TLI BLANK TLI»
100%
50
0
39:40
2.9E5
1.4E5
0.0E0
38:00
39:00
40:00
41:00
Time



TriMatrix, Inc.

TLI Project: **52366** Method 8290 PCDD/PCDF Analysis (
Client Sample: **BASF-SMW-10** Analysis File: **T0058**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/2000**	Spike File:	**SPMIT32S**
TLI ID:	**274-99-3A**	Date Extracted:	**11/21/2000**	ICal:	**TF57140**
		Date Analyzed:	**11/25/2000**	ConCal:	**T005815**
Sample Size:	**1.080 L**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005817**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	319			0.75	25:30	___
1,2,3,7,8-PeCDD	579			1.65	29:45	___
1,2,3,4,7,8-HxCDD	264			1.22	32:51	___
1,2,3,6,7,8-HxCDD	4880			1.21	32:57	___
1,2,3,7,8,9-HxCDD	2090			1.20	33:15	___
1,2,3,4,6,7,8-HpCDD	81960			1.02	36:09	E__
1,2,3,4,6,7,8,9-OCDD	326530			0.81	39:44	E__
2,3,7,8-TCDF	1880			0.86	24:46	___
1,2,3,7,8-PeCDF	ND	12.0				___
2,3,4,7,8-PeCDF	678			1.53	29:25	___
1,2,3,4,7,8-HxCDF	1620			1.29	32:10	___
1,2,3,6,7,8-HxCDF	476			1.28	32:16	___
2,3,4,6,7,8-HxCDF	480			1.32	32:45	___
1,2,3,7,8,9-HxCDF	EMPC		68.5			X__
1,2,3,4,6,7,8-HpCDF	1830			1.08	35:08	___
1,2,3,4,7,8,9-HpCDF	162			1.06	36:38	___
1,2,3,4,6,7,8,9-OCDF	1380			0.94	39:56	___

Totals	Conc. (pg/L)	Number	DL	EMPC	Flags
Total TCDD	5060	8		5400	___
Total PeCDD	2950	4		3950	___
Total HxCDD	50730	7			E__
Total HpCDD	152270	2			E__
Total TCDF	8100	14		11740	X__
Total PeCDF	4600	12		8080	X__
Total HxCDF	5970	8		7100	X__
Total HpCDF	2960	3		3110	___

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Printed: 18:17 11/30/20

TriMatrix, Inc.

TLI Project: **52366** Method 8290 PCDD/PCDF Analysis
Client Sample: **BASF-SMW-10** Analysis File: **T005**

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flag
$^{13}C_{12}$-2,3,7,8-TCDF	875	47.3	40%-130%	0.75	24:45	___
$^{13}C_{12}$-2,3,7,8-TCDD	751	40.6	40%-130%	0.79	25:29	___
$^{13}C_{12}$-1,2,3,7,8-PeCDF	633	34.2	40%-130%	1.51	28:43	V___
$^{13}C_{12}$-1,2,3,7,8-PeCDD	719	38.8	40%-130%	1.49	29:44	V___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	689	37.2	40%-130%	0.51	32:16	V___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	741	40.0	40%-130%	1.31	32:56	___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	547	29.5	25%-130%	0.42	35:07	___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	574	31.0	25%-130%	1.19	36:08	___
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	642	17.3	25%-130%	1.07	39:43	VRO__

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	612	33.0	40%-130%	1.51	29:25	V___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	728	39.3	40%-130%	0.51	32:10	V___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	690	37.3	40%-130%	1.22	32:51	V___
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	477	25.8	25%-130%	0.42	36:37	___

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	222	120	40%-130%	25:30	___

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	784	42.3	40%-130%	0.51	33:29	___
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	684	36.9	40%-130%	0.51	32:45	V___

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.82	25:17	___
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.20	33:15	___

Data Reviewer: _____ 11/30/2000

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TLI Project: **52366** Toxicity Equivalents Repc
Client Sample: **BASF-SMW-10** Analysis File: **T0058**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/00**	Spike File:	**SPMIT32S**
TLI ID:	**274-99-3A**	Date Extracted:	**11/21/00**	ICal:	**TF57140**
		Date Analyzed:	**11/25/00**	ConCal:	**T005315**
Sample Size:	**1.080 L**	Dilution Factor:	**1**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005817**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/L)		TEF		Equivalent
2,3,7,8-TCDD	319	x	1.	=	319
1,2,3,7,8-PeCDD	579	x	0.5	=	290
1,2,3,4,7,8-HxCDD	264	x	0.1	=	26.4
1,2,3,6,7,8-HxCDD	4880	x	0.1	=	488.0
1,2,3,7,8,9-HxCDD	2090	x	0.1	=	209.0
1,2,3,4,6,7,8-HpCDD	81960	x	0.01	=	819.60
1,2,3,4,6,7,8,9-OCDD	326530	x	0.001	=	326.530
TOTAL PCDD					2479
2,3,7,8-TCDF	1490	x	0.1	=	149.0
1,2,3,7,8-PeCDF	{12.0}	x	0.05	=	0.600
2,3,4,7,8-PeCDF	678	x	0.5	=	339
1,2,3,4,7,8-HxCDF	1620	x	0.1	=	162.0
1,2,3,6,7,8-HxCDF	476	x	0.1	=	47.6
2,3,4,6,7,8-HxCDF	480	x	0.1	=	48.0
1,2,3,7,8,9-HxCDF	68.5	x	0.1	=	6.85
1,2,3,4,6,7,8-HpCDF	1830	x	0.01	=	18.30
1,2,3,4,7,8,9-HpCDF	162	x	0.01	=	1.62
1,2,3,4,6,7,8,9-OCDF	1380	x	0.001	=	1.380
TOTAL PCDF					774

Total EPA TEFs, 1989a: 3253 pg/L

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

GRY_TEF v1.08, MILES 4.22

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Printed: 10:21 11/30/0

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Initial ....Date...

Data Review By: KW 11/30/00

Calculated Noise Height: 0.39

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 T005820B.dbf
11/30/2000 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_I....	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				0.860-1.077			
304-306	DC	NL				Height	1.09	0.71	0.38				
				21:58		0.83	56.32	25.49	30.83	0.888			
				22:05		0.89	57.49	27.09	30.40	0.892			
				22:23		0.88	71.05	33.18	37.87	0.904			
				22:51		0.86	158.40	73.09	85.31	0.923			q
				23:03		0.86	288.45	133.45	155.00	0.931			
				23:25		0.85	293.29	134.52	158.77	0.946			
				23:42		0.86	193.10	89.12	103.98	0.958			
				24:08		0.87	398.20	185.44	212.76	0.975			
				24:20		0.87	697.96	324.08	373.88	0.983	1278-TCDF	AN	
				24:34		0.87	121.60	56.69	64.91	0.993			
				24:46		0.86	811.27	374.47	436.80	1.001	2378-TCDF	AN	
				25:12		0.89	178.59	84.02	94.57	1.018			
				25:25		0.87	135.93	63.13	72.80	1.027			
	X		X	25:34	RO	0.89	135.96	63.85	72.11	1.033			
	AX		X	25:50	RO	0.86	653.00	302.00	351.00	1.044			
	X		X	26:12	RO	0.89	782.85	367.83	415.02	1.059			
				26:30		0.89	53.51	25.25	28.26	1.071			
	DC	WH		26:47		0.88	340.82			1.082			
304-306			17 Peaks				5,086.97						
13C12-TCDF						0.65-0.89				0.959-1.041			
316-318	DC	NL				Height	2.04	0.75	1.29				
	DC	WL		21:13		0.70	54.37			0.857			
	DC	WL		21:38		0.74	9.05			0.874			
	DC	WL		22:53	RO	0.62	11.95			0.925			
	DC	WL		23:03	RO	0.57	7.52			0.931			
	DC	WL		23:13		0.70	17.72			0.938			
	DC	WL		23:35		0.66	89.14			0.953			
				24:19	RO	0.64	9.98	4.34	6.77	0.982			
				24:45		0.75	781.70	334.34	447.36	1.000	13C12-2378-TCDF	ISO	
						Height	183.56	77.90	105.66				
				25:12		0.73	11.71	4.94	6.77	1.018			
				25:23	RO	0.63	65.31	28.41	45.13	1.026			
316-318			4 Peaks				868.70						

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

TCDD						0.65-0.89				0.890-1.045			
320-322	DC	NL				Height	0.47	0.21	0.26				
				22:55		0.75	609.32	261.67	347.65	0.899	1368-TCDD	AN	
				23:19		0.79	297.67	131.43	166.24	0.915	1379-TCDD	AN	
	M			23:34	RO	0.16	41.15	17.90	112.00	0.925			

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			24:00	RO	0.48	17.88	7.78	16.20	0.942			
				24:17		0.76	194.58	83.89	110.69	0.953			
				24:33		0.75	30.48	13.08	17.40	0.963			
				24:38	RO	0.59	24.23	10.54	17.83	0.967			
				24:57		0.66	24.98	9.92	15.06	0.979			
				25:23		0.73	65.53	27.75	37.78	0.996			
				25:30		0.75	86.62	37.16	49.46	1.001	2378-TCDD	AN	
				25:40	RO	0.96	4.37	2.36	2.47	1.007			
				25:49		0.76	36.79	15.84	20.95	1.013			
				26:02	RO	0.93	4.44	2.33	2.51	1.022			
	A			26:20	RO	0.54	1.70	0.74	1.38	1.033			J
		DC	WH	26:48	RO	0.58	10.67			1.052			
320-322			14	Peaks			1,439.74						
37Cl-TCDD										0.921-1.079			
328		DC	NL			Height	5.08	5.08					
		DC	WL	23:02			65.49			0.904			
		DC	WL	23:10			1,089.46			0.909			
		DC	WL	23:18			782.61			0.914			
				24:05			35,508.00	35,508.00		0.945			
				24:30			53.02	53.02		0.961			
				25:04			48.23	48.23		0.984			
				25:22			423.43	423.43		0.995			
				25:30			137.52	137.52		1.001	37Cl-TCDD	CLS	
				25:52			635.59	635.59		1.015			
				26:47			1,015.24	1,015.24		1.051			
328			7	Peaks			37,821.03						
13C12-TCDD						0.65-0.89				0.921-1.079			
332-334		DC	NL			Height	1.45	1.15	0.30				
				24:04	RO	1.65	16.23	15.10	9.17	0.944			
				25:17		0.82	1,290.19	580.17	710.02	0.992	13C12-1234-TCDD	RS1	
				25:29		0.79	550.39	242.85	307.54	1.000	13C12-2378-TCDD	IS1	
						Height	142.81	62.87	79.94				
		DC	SN	25:49	RO	12.35	1.22			1.013			
332-334			3	Peaks			1,856.81						
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF						1.32-1.78				0.923-1.064			
340-342		DC	NL			Height	0.55	0.22	0.33				
				26:44		1.50	140.47	84.38	56.09	0.931			
				27:27		1.39	6.49	3.77	2.72	0.956			J
				27:52		1.53	441.08	266.51	174.57	0.970			
				28:01		1.49	81.22	48.63	32.59	0.976			
				28:15		1.43	15.99	9.41	6.58	0.984			
				28:22		1.43	68.14	40.11	28.03	0.988			
				28:30	RO	1.98	11.63	9.01	4.56	0.992			J
	A			28:38		1.50	54.90	32.90	22.00	0.997			
	MXN		X	28:45	RO	1.52	575.00	347.00	228.00	1.001			
	A			28:53		1.44	41.30	24.40	16.90	1.006			
	X		X	29:00	RO	1.51	193.68	116.39	77.29	1.010			

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.
				29:25		1.53	179.24	108.34	70.90	1.024	23478-PeCDF	AN	
				29:34		1.51	146.19	87.93	58.26	1.030			
	DC	SN		29:47		1.72	5.09			1.037			
				29:52	RO	1.85	6.50	4.72	2.55	1.040			J
				30:00		1.66	14.46	9.03	5.43	1.045			
X		X		30:07	RO	1.50	127.83	76.66	51.17	1.049			
				30:23		1.59	17.27	10.61	6.66	1.058			
	DC	WH		30:37		1.53	4.45			1.066			
340-342		17	Peaks				2,121.39						
13C12-PeCDF				1.32-1.78					0.860-1.140				
352-354	DC	NL				Height	0.56	0.26	0.30				
	DC	SN		26:30	RO	0.77	2.71			0.923			
	DC	SN		26:55	RO	1.07	3.37			0.937			
	DC	SN		27:04	RO	0.59	1.71			0.943			
	DC	SN		28:01	RO	0.89	1.07			0.976			
				28:43		1.51	529.10	318.31	210.79	1.000	13C12-PeCDF 123	IS2	
						Height	164.45	99.67	64.78				
				28:59		1.53	3.77	2.28	1.49	1.009			
	DC	SN		29:05		1.54	1.98			1.013			
				29:25		1.51	506.15	304.17	201.98	1.024	13C12-PeCDF 234	SUR1	
				30:21		1.35	6.58	3.78	2.80	1.057			
	DC	SN		30:31	RO	4.00	0.59			1.063			
352-354		4	Peaks				1,045.60						

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

PeCDD				1.32-1.78					0.933-1.021				
356-358	DC	NL				Height	0.41	0.14	0.27				
	DC	SN		28:09	RO	0.00	0.76			0.947			
				28:30	RO	1.88	15.78	11.61	6.19	0.959			
				28:41	RO	0.95	110.26	67.02	70.45	0.965			
				28:49		1.54	313.20	189.96	123.24	0.969			
				29:01		1.48	67.05	40.04	27.01	0.976			
A				29:15		1.40	81.30	47.40	33.90	0.984			
A				29:24	RO	1.31	21.39	13.00	9.89	0.989			
				29:35	RO	0.30	7.30	4.44	14.90	0.995			J
				29:45		1.65	112.86	70.27	42.59	1.001	12378-PeCDD	AN	
				29:53	RO	0.06	16.93	10.29	158.73	1.005			
				30:13	RO	0.97	22.77	13.84	14.23	1.016			
356-358		10	Peaks				768.84						
13C12-PeCDD				1.32-1.78					0.865-1.135				
368-370	DC	NL				Height	0.37	0.26	0.11				
	DC	SN		27:55	RO	5.53	1.73			0.939			
	DC	SN		28:22	RO	3.22	0.82			0.954			
	DC	SN		28:34	RO	2.87	0.59			0.961			
	DC	SN		28:41		1.37	1.92			0.965			
	DC	SN		28:48	RO	1.03	1.76			0.969			
	DC	SN		29:09	RO	0.08	0.94			0.980			
	DC	SN		29:28	RO	1.97	0.97			0.991			
				29:44		1.49	341.70	204.35	137.35	1.000	13C12-PeCDD 123	IS3	
						Height	111.33	65.90	45.43				

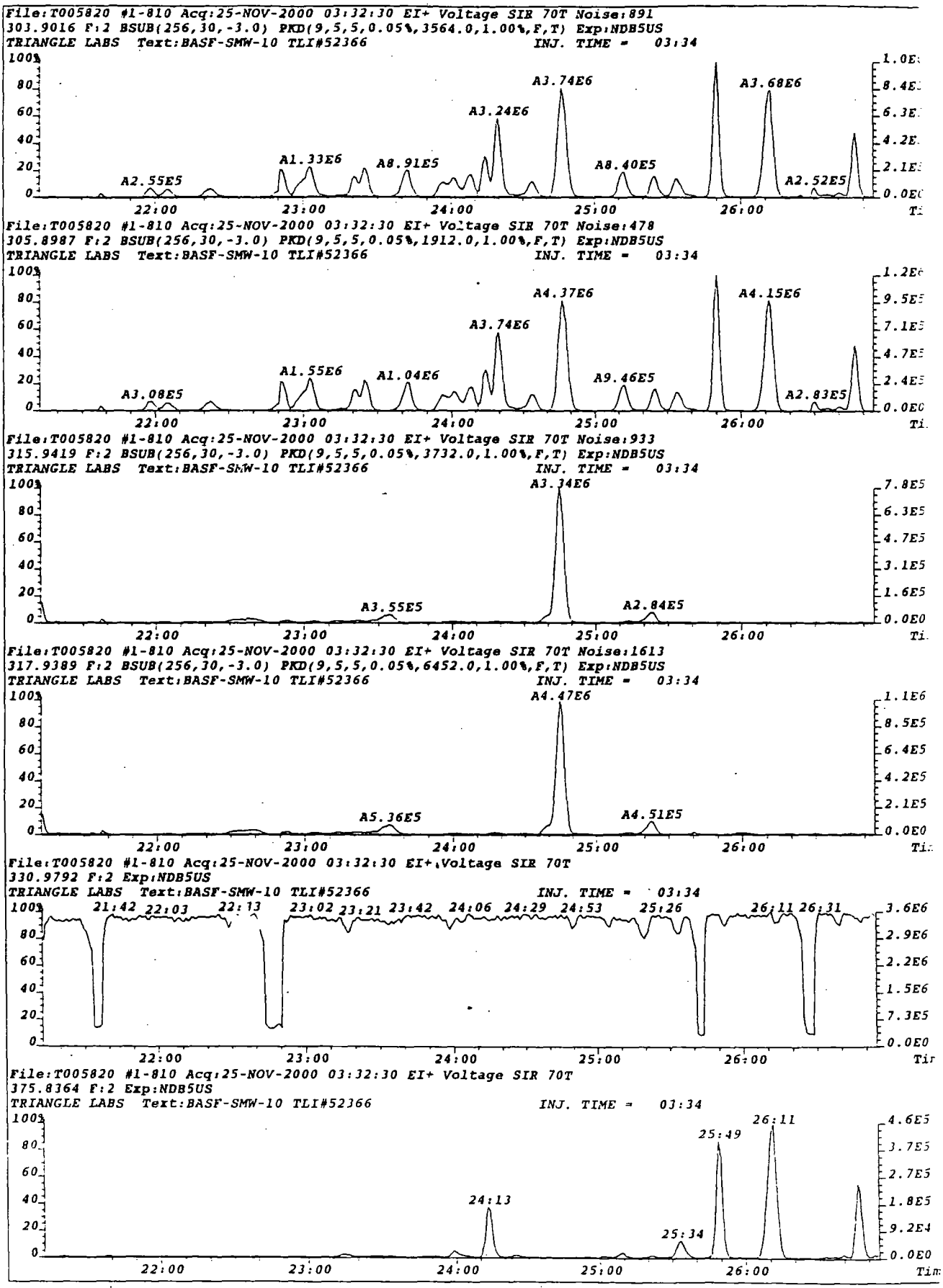
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
	DC	SN		30:05	RO	6.56	0.92			1.012			
	DC	SN		30:16	RO	4.08	0.66			1.018			
	DC	SN		30:20	RO	0.42	0.72			1.020			
	DC	SN		30:28		1.60	0.65			1.025			
	DC	SN		30:37	RO	2.67	0.69			1.030			
368-370			1 Peak				341.70						
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF						1.05-1.43				0.961-1.046			
374-376	DC	NL				Height	0.46	0.21	0.25				
				31:13		1.29	43.83	24.67	19.16	0.967			
				31:21		1.30	348.26	197.12	151.14	0.972			
X		X		31:31	RO	1.33	14.12	8.07	6.05	0.977			
				31:38		1.30	22.26	12.59	9.67	0.980			
				31:48		1.30	324.66	183.57	141.09	0.986			
X		X		32:01	RO	1.29	8.28	4.67	3.61	0.992			J
				32:10		1.29	384.83	217.06	167.77	0.997	123478-HxCDF	AN	
				32:16		1.28	118.92	66.87	52.05	1.000	123678-HxCDF	AN	
X		X		32:25	RO	1.31	204.75	116.20	88.55	1.005			
				32:34	RO	1.44	11.09	7.11	4.95	1.009			
				32:45		1.32	108.38	61.67	46.71	1.015	234678-HxCDF	AN	
NX		X		33:28	RO	1.18	12.65	6.84	5.81	1.037	123789-HxCDF	AN	
N				33:34		1.32	23.51	13.36	10.15	1.040			
	DC	WH		33:58		1.35	18.98			1.053			
374-376			13 Peaks				1,625.54						
13C12-HxCDF						0.43-0.59				0.876-1.124			
384-386	DC	NL				Height	0.65	0.30	0.35				
	DC	SN		31:13		0.55	1.69			0.967			
				32:10		0.51	447.78	150.42	297.36	0.997	13C12-HxCDF 478	SUR2	
				32:16		0.51	429.96	145.41	284.55	1.000	13C12-HxCDF 678	IS4	
						Height	152.02	52.45	99.57				
				32:45		0.51	389.49	131.62	257.87	1.015	13C12-HxCDF 234	ALT2	
	DC	SN		32:58	RO	1.91	0.80			1.022			
				33:29		0.51	327.85	110.91	216.94	1.038	13C12-HxCDF 789	ALT1	
384-386			4 Peaks				1,595.08						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD						1.05-1.43				0.956-1.013			
390-392	DC	NL				Height	0.95	0.43	0.52				
				31:42		1.21	2,018.33	1,105.35	912.98	0.963			
				32:09		1.22	213.95	117.77	96.18	0.976			
				32:21		1.21	4,663.55	2,557.69	2,105.86	0.982			E
				32:30		1.21	33.01	18.08	14.93	0.987			
AN				32:51		1.22	42.00	23.10	18.90	0.997	123478-HxCDD	AN	
M				32:57		1.21	774.00	423.00	351.00	1.001	123678-HxCDD	AN	
				33:15		1.20	335.12	182.56	152.56	1.010	123789-HxCDD	AN	
390-392			7 Peaks				8,079.96						

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						0.970-1.030			
402-404	DC	NL		Height			1.47	1.11	0.36				
				32:51		1.22	278.77	153.18	125.59	0.997	13C12-HxCDD 478	SUR3	
				32:56		1.31	289.19	163.93	125.26	1.000	13C12-HxCDD 678	IS5	
						Height	96.84	53.79	43.05				
				33:15		1.20	796.16	435.05	361.11	1.010	13C12-HxCDD 789	RS2	
				33:35	RO	2.53	9.07	10.25	4.05	1.020			
	DC	SN		33:40	RO	10.56	4.48			1.022			
402-404			4	Peaks			1,373.19						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF				0.38-1.20						0.995-1.048			
408-410	DC	NL		Height			0.36	0.23	0.13				
				35:08		1.08	283.01	147.15	135.86	1.000	1234678-HpCDF	AN	
X		X		35:22	RO	1.04	20.42	10.42	10.00	1.007			
				35:32		1.08	132.71	68.90	63.81	1.012			
	DC	SN		35:45		1.10	1.53			1.018			
	DC	SN		36:09		0.88	4.35			1.029			
	DC	SN		36:22	RO	1.75	1.82			1.036			
				36:38		1.06	19.33	9.94	9.39	1.043	1234789-HpCDF	AN	
408-410			4	Peaks			455.47						
13C12-HpCDF				0.37-0.51						0.943-1.114			
418-420	DC	NL		Height			0.38	0.17	0.21				
				35:07		0.42	228.06	67.35	160.71	1.000	13C12-HpCDF 678	IS6	
						Height	68.55	20.12	48.43				
	DC	SN		36:20		0.48	0.46			1.035			
	DC	SN		36:29	RO	0.79	0.62			1.039			
				36:37		0.42	154.90	45.54	109.36	1.043	13C12-HpCDF 789	SUR4	
418-420			2	Peaks			382.96						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD				0.88-1.20						0.974-1.005			
424-426	DC	NL		Height			2.01	0.70	1.31				
				35:24		1.04	6,872.53	3,501.32	3,371.21	0.980			E
				36:09		1.02	8,010.60	4,053.65	3,956.95	1.000	1234678-HpCDD	AN	E
424-426			2	Peaks			14,883.13						
13C12-HpCDD				0.88-1.20						0.972-1.028			
436-438	DC	NL		Height			2.47	1.69	0.78				
M				36:08		1.19	211.70	115.00	96.70	1.000	13C12-HpCDD 678	IS7	
						Height	55.26	28.33	26.93				
436-438			1	Peak			211.70						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF				0.76-1.02						0.899-1.101			
442-444	DC	NL		Height			0.17	0.08	0.09				
	DC	SN		37:15	RO	1.33	0.23			0.938			
	DC	SN		37:40	RO	0.52	0.53			0.943			

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		37:49	RO	1.11	0.36			0.952			
	DC	SN		38:01		0.90	2.13			0.957			
	DC	SN		38:32	RO	0.22	0.08			0.970			
	DC	SN		38:35	RO	3.00	0.06			0.971			
	DC	SN		39:05	RO	1.87	1.04			0.984			
	DC	SN		39:23	RO	1.18	0.42			0.992			
				39:44	RO	1.11	5.16	3.02	2.73	1.000			
				39:56		0.94	79.24	38.31	40.93	1.005	OCDF		AN
	DC	SN		40:04	RO	1.96	1.44			1.009			
	DC	SN		40:17	RO	2.45	0.83			1.014			
	DC	SN		40:44	RO	4.63	0.36			1.026			
	DC	SN		41:07	RO	2.02	0.83			1.035			
	DC	SN		41:49	RO	1.28	2.25			1.053			
	DC	SN		42:17	RO	2.05	0.72			1.065			
	DC	SN		42:54	RO	3.67	0.34			1.080			
	DC	SN		43:02	RO	2.79	0.53			1.084			
	DC	SN		43:20	RO	4.00	0.13			1.091			
	DC	SN		43:25	RO	0.67	0.13			1.093			
	DC	SN		43:37	RO	1.87	0.57			1.098			
442-444		2 Peaks					84.40						
OCDD						0.76-1.02				0.899-1.101			
458-460	DC	NL				Height	0.17	0.08	0.09				
				39:44		0.81	15,534.45	6,943.45	8,591.00	1.000	OCDD		AN E
458-460		1 Peak					15,534.45						
13C12-OCDD						0.76-1.02				0.996-1.004			
470-472	DC	NL				Height	7.89	6.07	1.82				
M				39:43	RO	1.07	192.78	109.00	102.00	1.000	13C12-OCDD		IS8
						Height	44.84	22.40	22.44				
470-472		1 Peak					192.78						

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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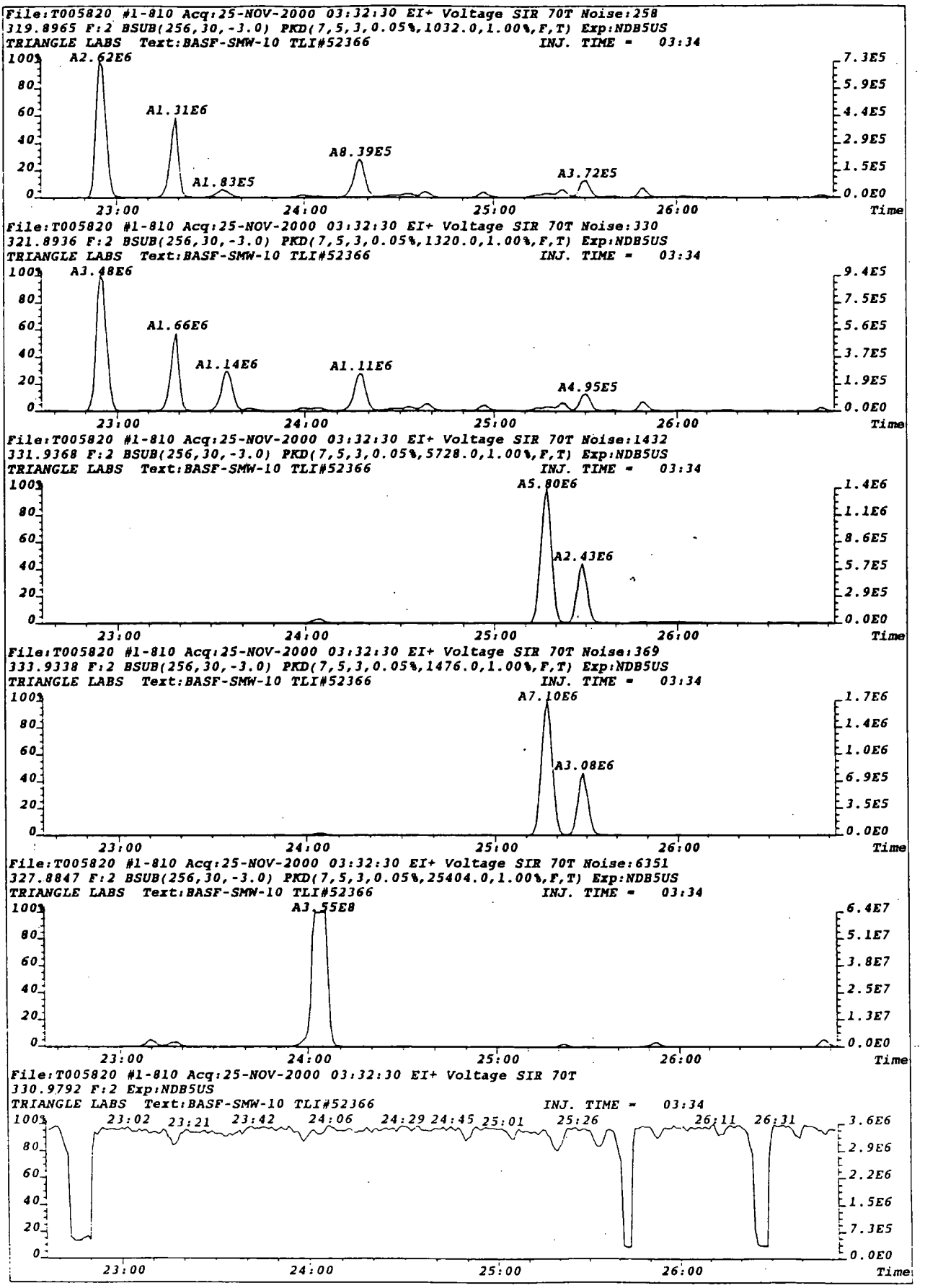
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,3564.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A2.55E5
A1.33E6
A8.91E5
A3.24E6
A3.74E6
A8.40E5
A3.68E6
A2.52E5
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:478
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,1912.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A3.08E5
A1.55E6
A1.04E6
A3.74E6
A4.37E6
A9.46E5
A4.15E6
A2.83E5
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:933
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,3732.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A3.55E5
A3.34E6
A2.84E5
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:1613
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,6452.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A5.36E5
A4.47E6
A4.51E5
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
21:42 22:03 22:13 23:02 23:21 23:42 24:06 24:29 24:53 25:26 26:11 26:31
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
24:13
25:34
25:49
26:11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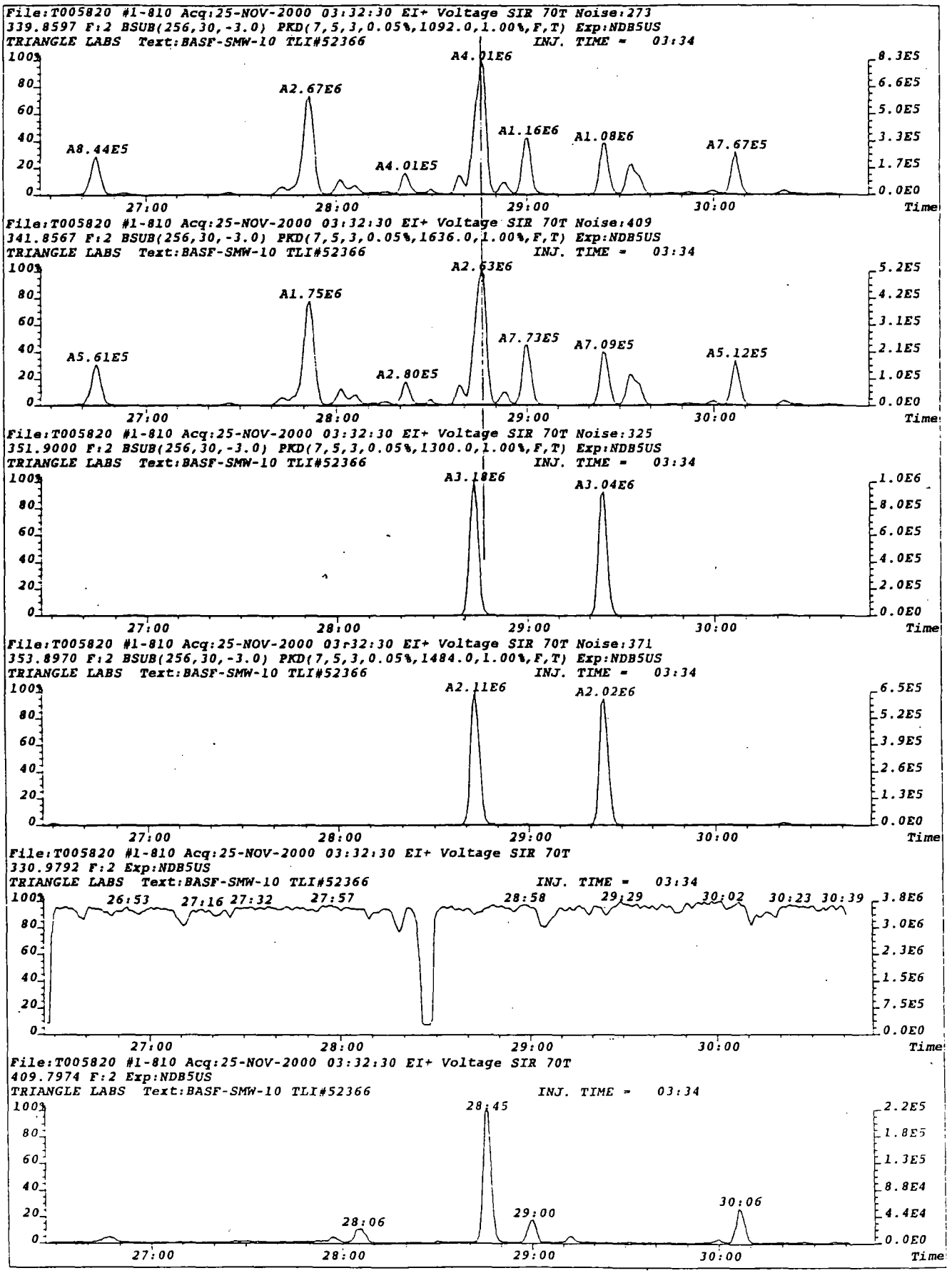
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1032.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A2.62E6
A1.31E6
A1.83E5
A8.39E5
A3.72E5
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:330
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1320.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A3.48E6
A1.66E6
A1.14E6
A1.11E6
A4.95E5
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:1432
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,5728.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A5.80E6
A2.43E6
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:369
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1476.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A7.10E6
A3.08E6
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:6351
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,25404.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A3.55E8
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
23:02 23:21 23:42 24:06 24:29 24:45 25:01 25:26 26:11 26:31
23:00 24:00 25:00 26:00 Time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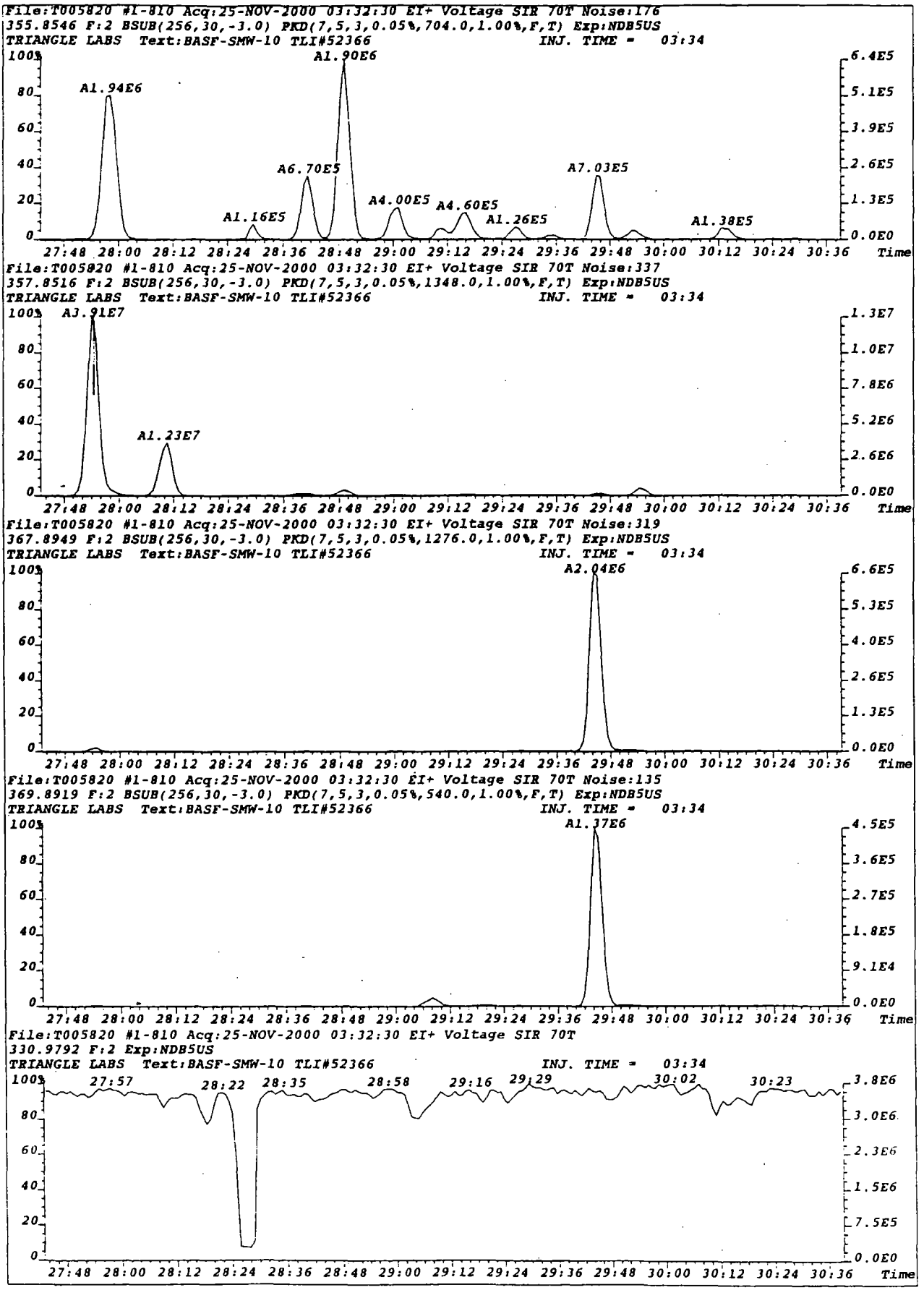
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1092.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A8.44E5
A2.67E6
A4.01E5
A4.01E6
A1.16E6
A1.08E6
A7.67E5
Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:409
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1636.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A5.61E5
A1.75E6
A2.80E5
A2.63E6
A7.73E5
A7.09E5
A5.12E5
Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:325
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1300.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A3.18E6
A3.04E6
Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:371
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1484.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A2.11E6
A2.02E6
Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
26:53
27:16
27:32
27:57
28:58
29:29
30:02
30:23
30:39
Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
28:45
28:06
29:00
30:06
Time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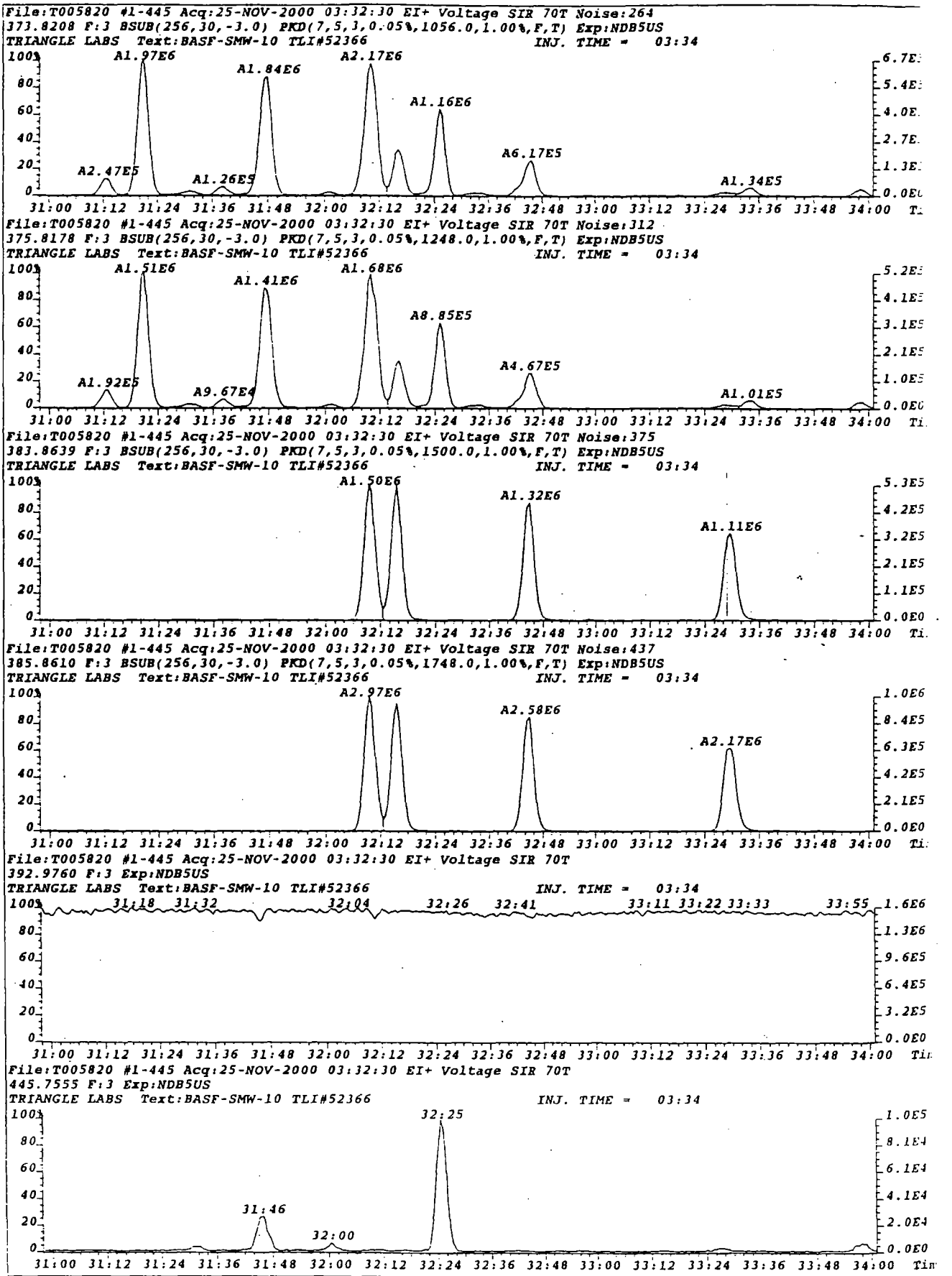
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,704.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A1.94E6
A1.90E6
A6.70E5
A1.16E5
A4.00E5
A4.60E5
A1.26E5
A7.03E5
A1.38E5
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:337
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1348.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A3.91E7
A1.23E7
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:319
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A2.04E6
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:135
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,540.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A1.37E6
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
27:57
28:22
28:35
28:58
29:16
29:29
30:02
30:23
Time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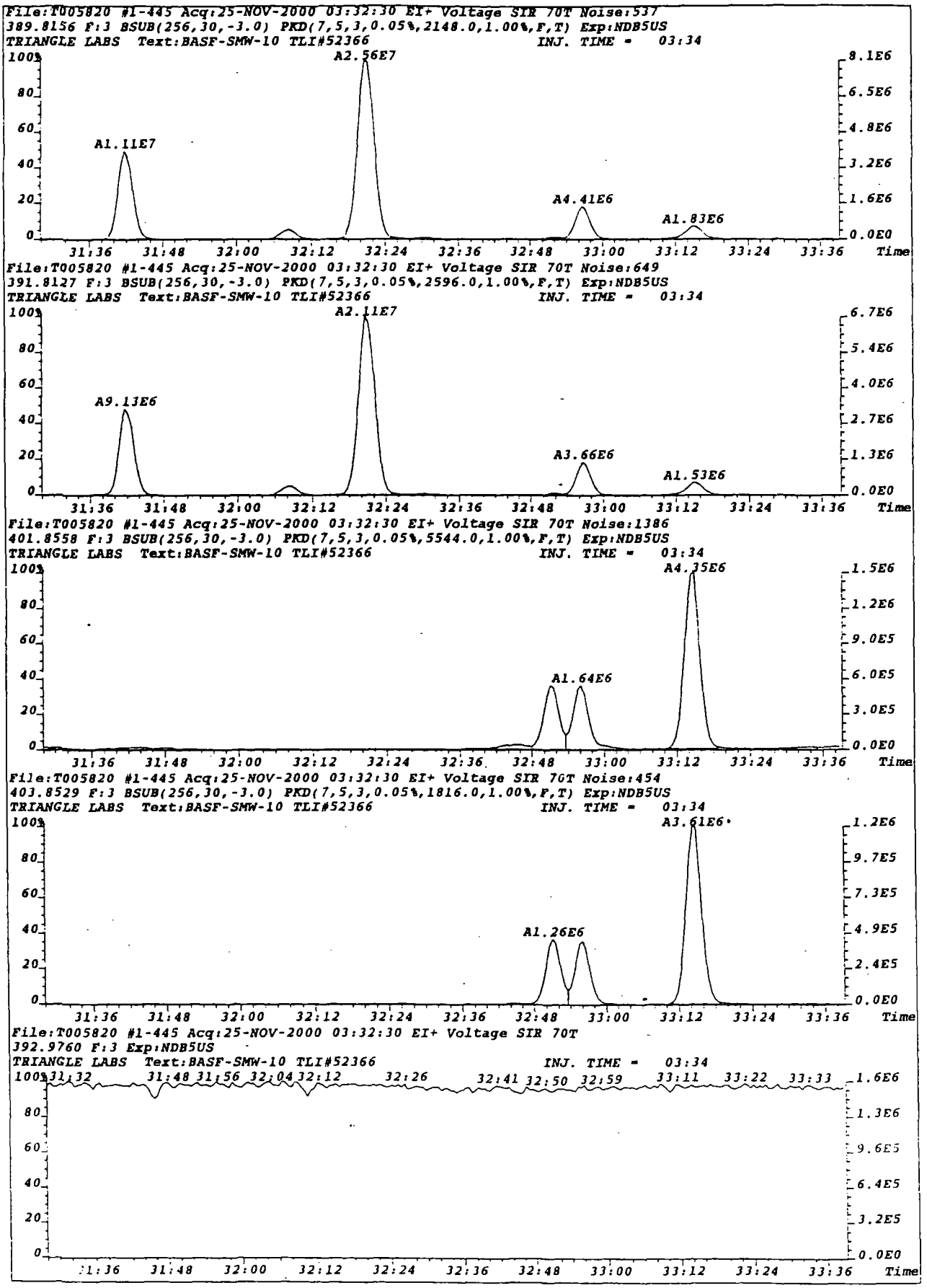
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1056.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A1.97E6
A1.84E6
A2.17E6
A1.16E6
A6.17E5
A2.47E5
A1.26E5
A1.34E5
File:T005820 #1-445 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:312
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1248.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A1.51E6
A1.41E6
A1.68E6
A8.85E5
A4.67E5
A1.92E5
A9.67E4
A1.01E5
File:T005820 #1-445 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:375
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1500.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A1.50E6
A1.32E6
A1.11E6
File:T005820 #1-445 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:437
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1748.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A2.97E6
A2.58E6
A2.17E6
File:T005820 #1-445 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
File:T005820 #1-445 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
32:25
31:46
32:00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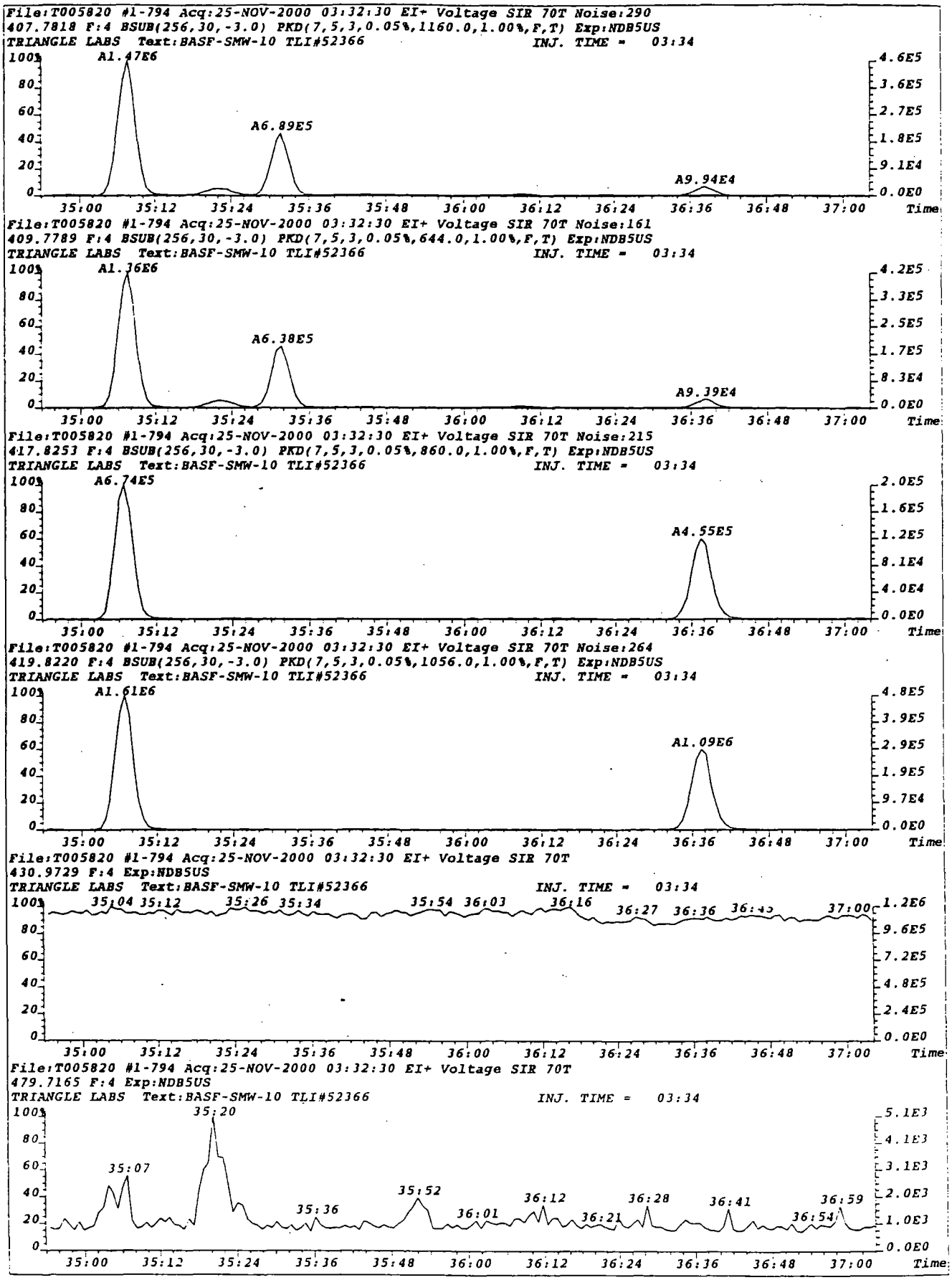
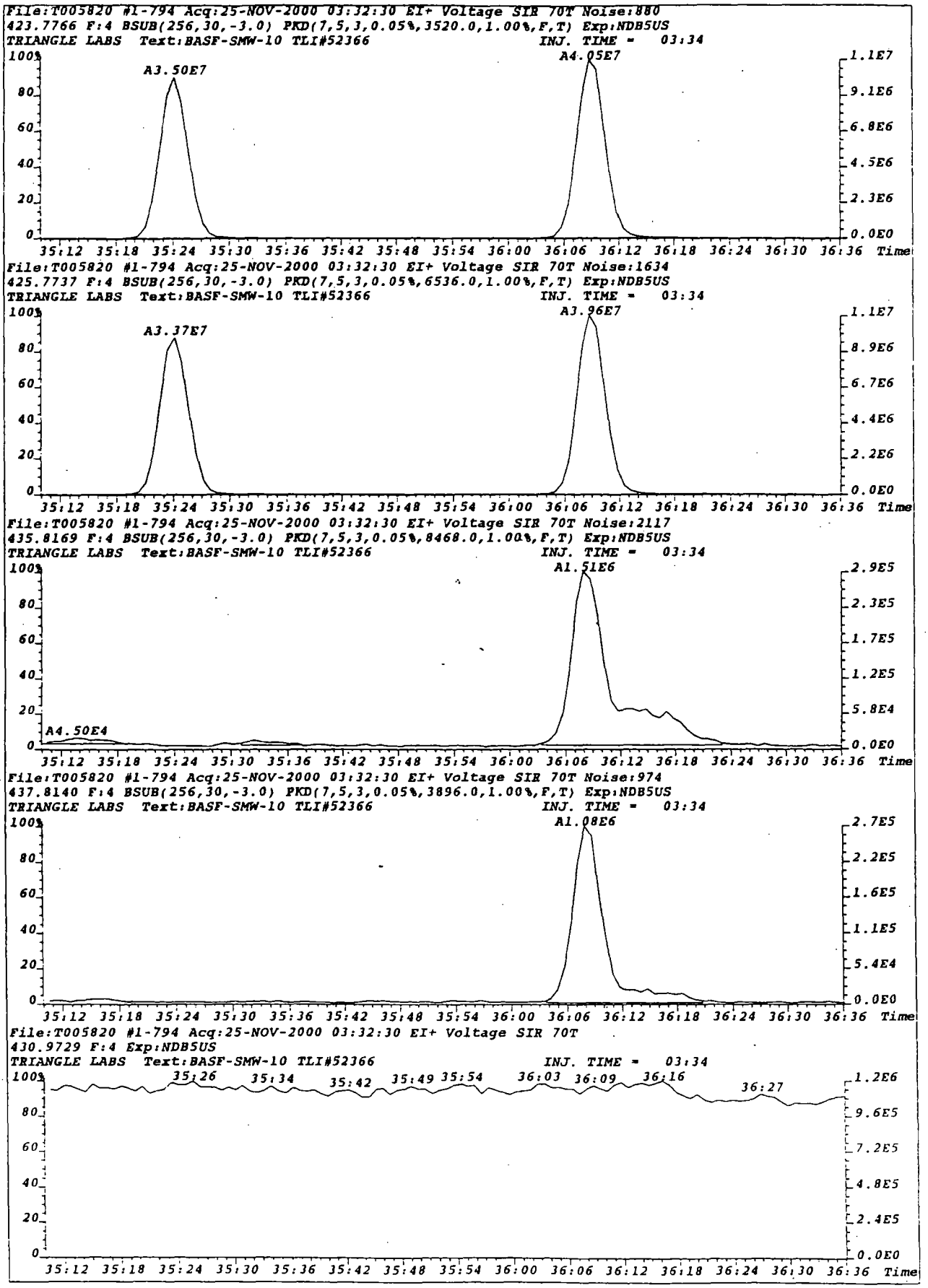
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34
A2.56E7
A1.11E7
A4.41E6
A1.83E6
File:T005820 #1-445 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:649
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2596.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34
A2.11E7
A9.13E6
A3.66E6
A1.53E6
File:T005820 #1-445 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:1386
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,5544.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34
A4.35E6
A1.64E6
File:T005820 #1-445 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:454
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1816.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34
A3.61E6
A1.26E6
File:T005820 #1-445 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34
Time


File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:290
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A1.47E6
A6.89E5
A9.94E4
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:161
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,644.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A1.36E6
A6.38E5
A9.39E4
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:215
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,860.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A6.74E5
A4.55E5
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:264
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1056.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A1.61E6
A1.09E6
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
35:20
35:07
35:36
35:52
36:01
36:12
36:21
36:28
36:41
36:54
36:59
Time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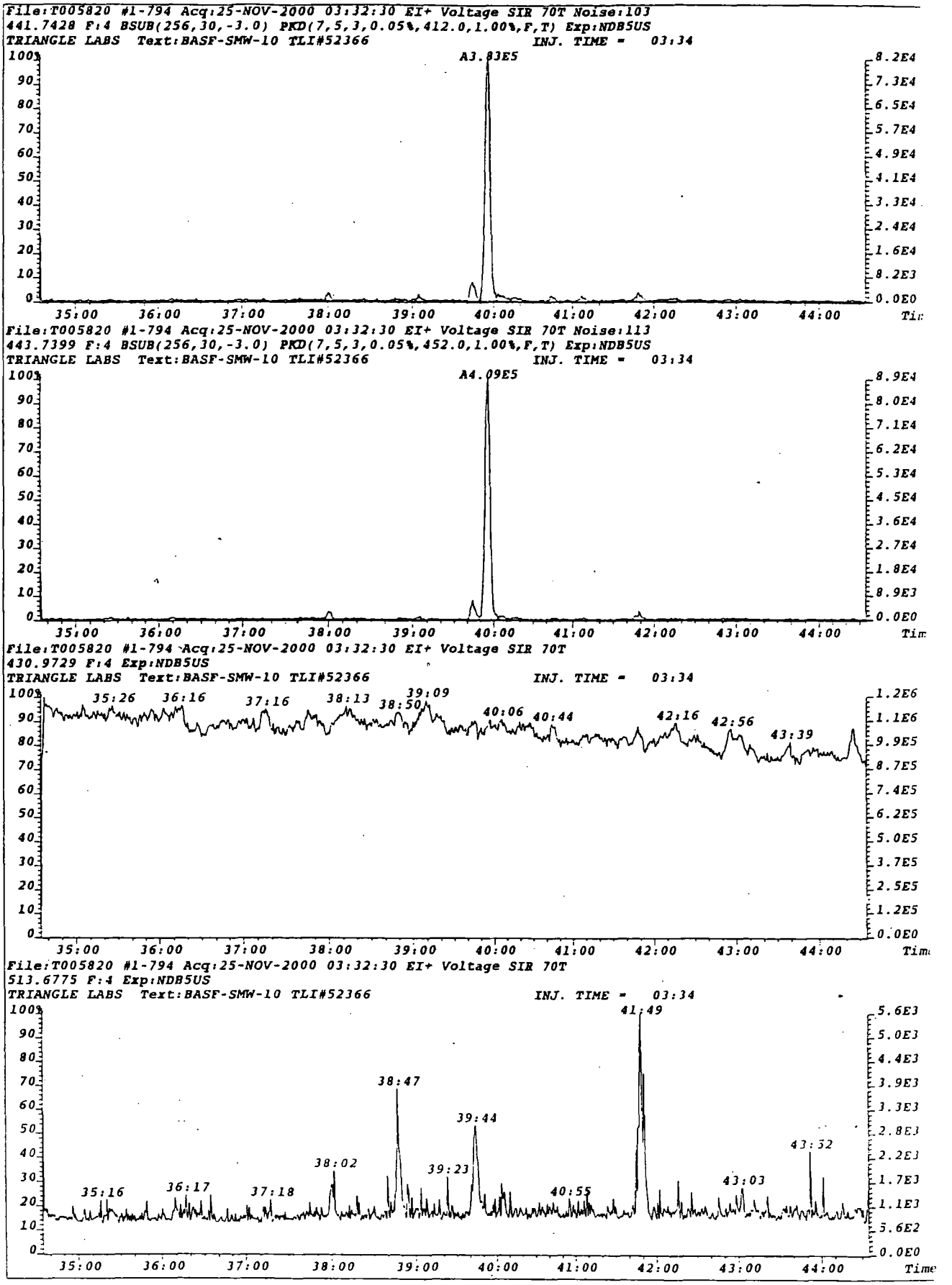
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,3520.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A3.50E7
A4.05E7
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:1634
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,6536.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A3.37E7
A3.96E7
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:2117
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,8468.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A1.51E6
A4.50E4
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:974
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,3896.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A1.08E6
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
35:26
35:34
35:42
35:49
35:54
36:03
36:09
36:16
36:27
Time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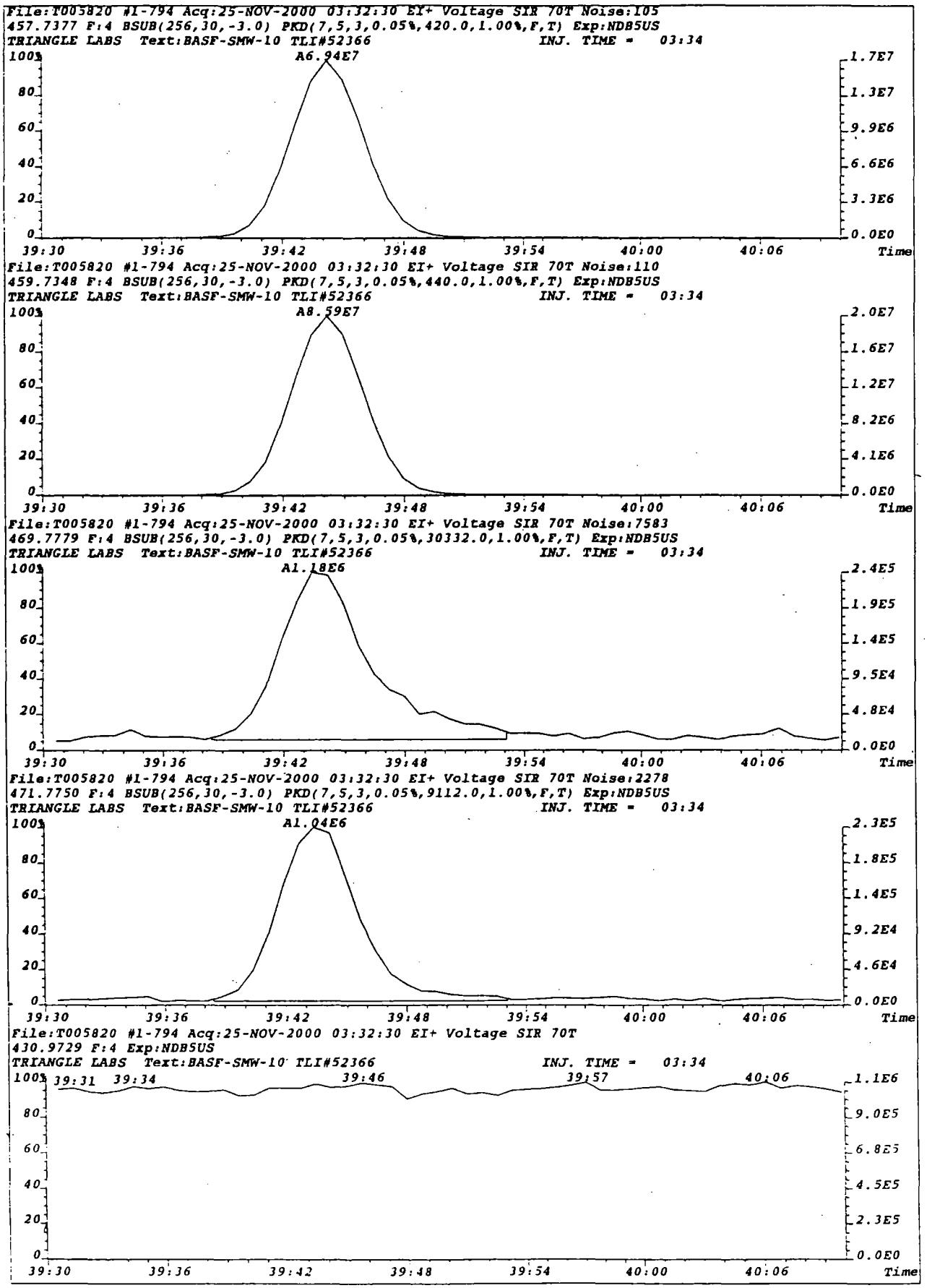
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,412.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34
A3.83E5
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:113
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,452.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34
A4.09E5
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34
35:26
36:16
37:16
38:13
38:50
39:09
40:06
40:44
42:16
42:56
43:39
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34
35:16
36:17
37:18
38:02
38:47
39:23
39:44
40:55
41:49
43:03
43:32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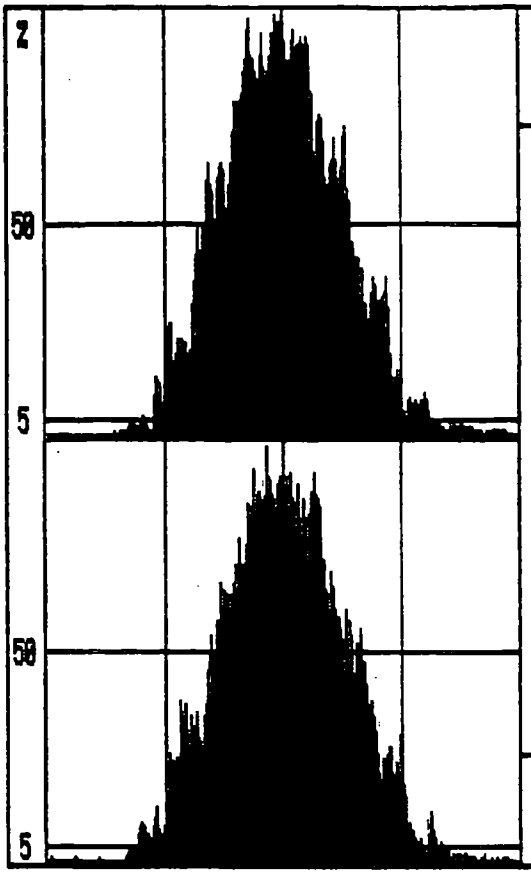
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,420.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A6.94E7
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:110
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,440.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A8.59E7
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:7583
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,30332.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A1.18E6
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T Noise:2278
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,9112.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
A1.04E6
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34
Time

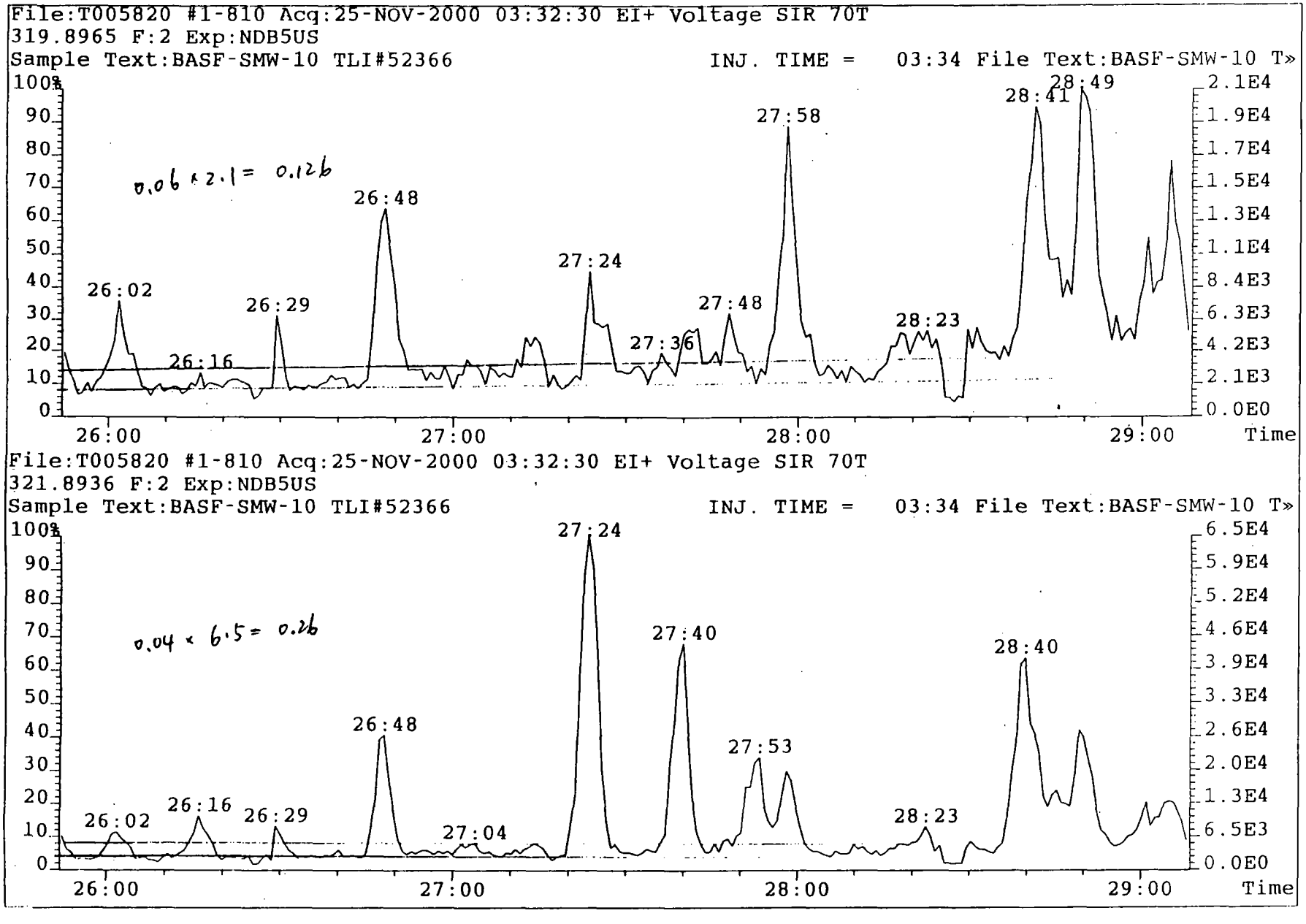


Channel	I	330.9792		Peak top	
Height	.74	volts	Span	200	ppm

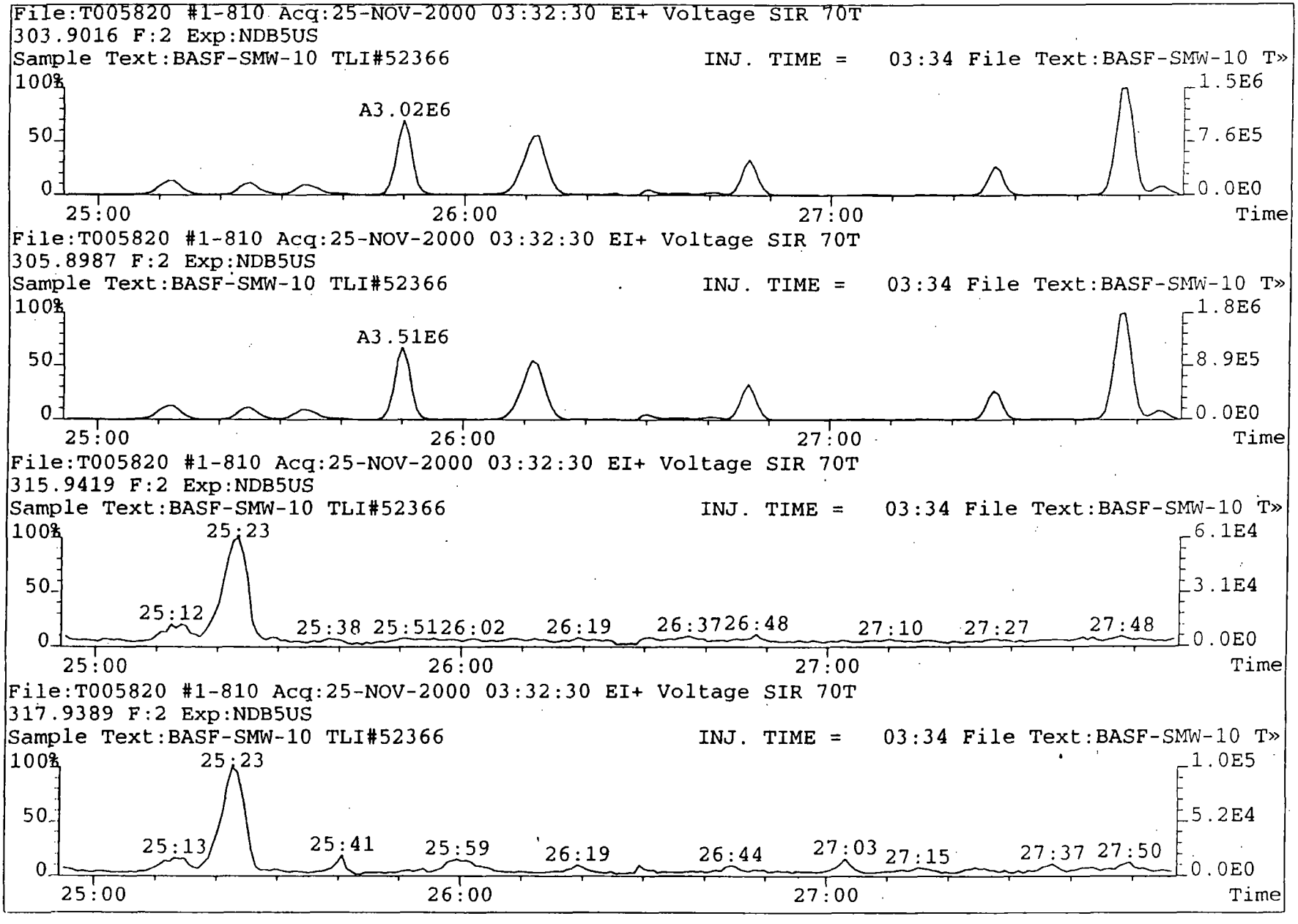
System file name	NOBSUS
Data file name	A:TN25001
Resolution	10000
Group number	2
Ionization mode	EI+
Switching	VOLTAGE
Ref. masses	292.9825, 416.9768

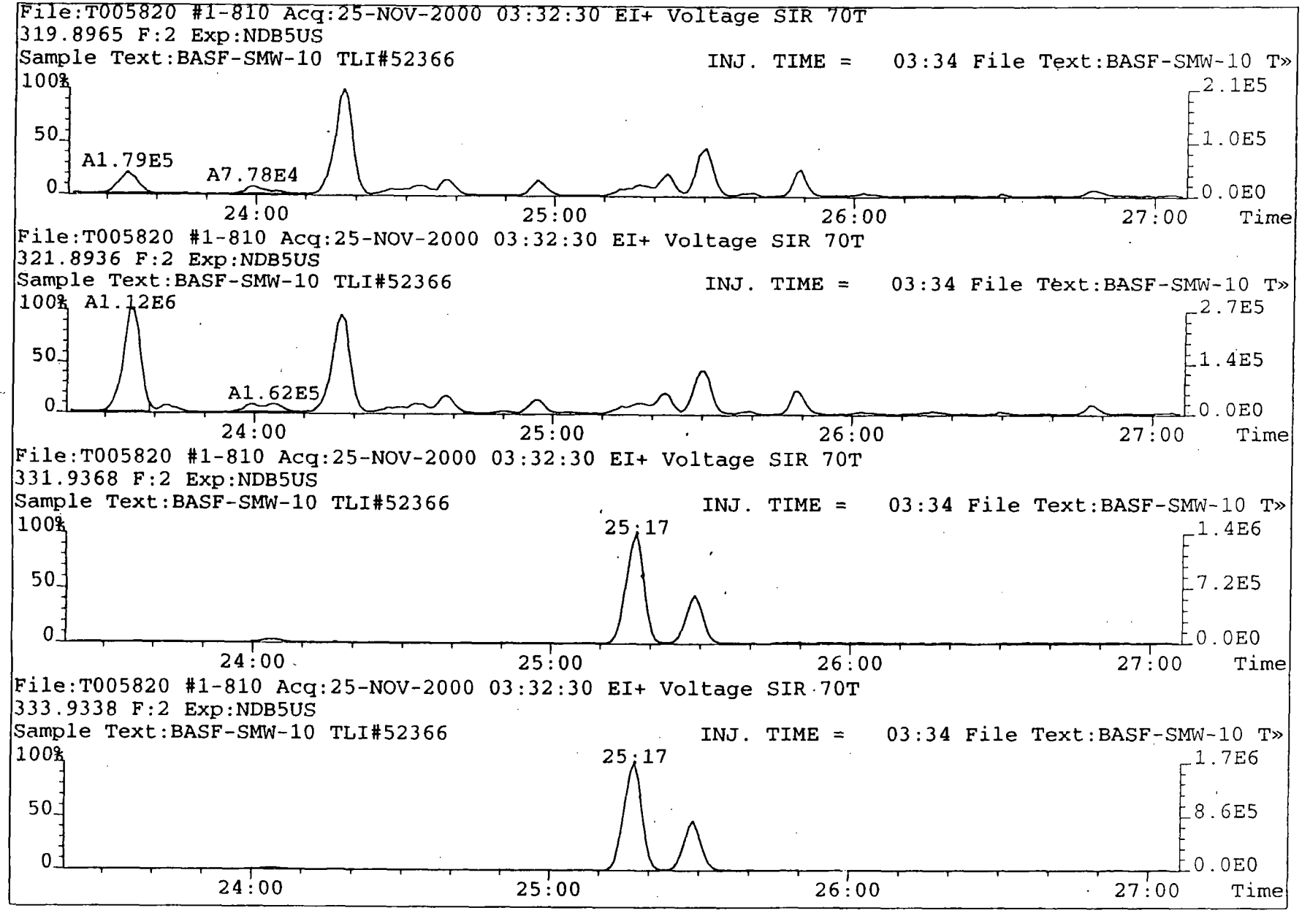
A	293	J	331	S	368
B	304	K	332	T	370
C	306	L	334	U	376
D	316	M	340	V	410
E	318	N	342		
F	320	O	352		
G	322	P	354		
H	328	Q	356		
I	331	R	358		

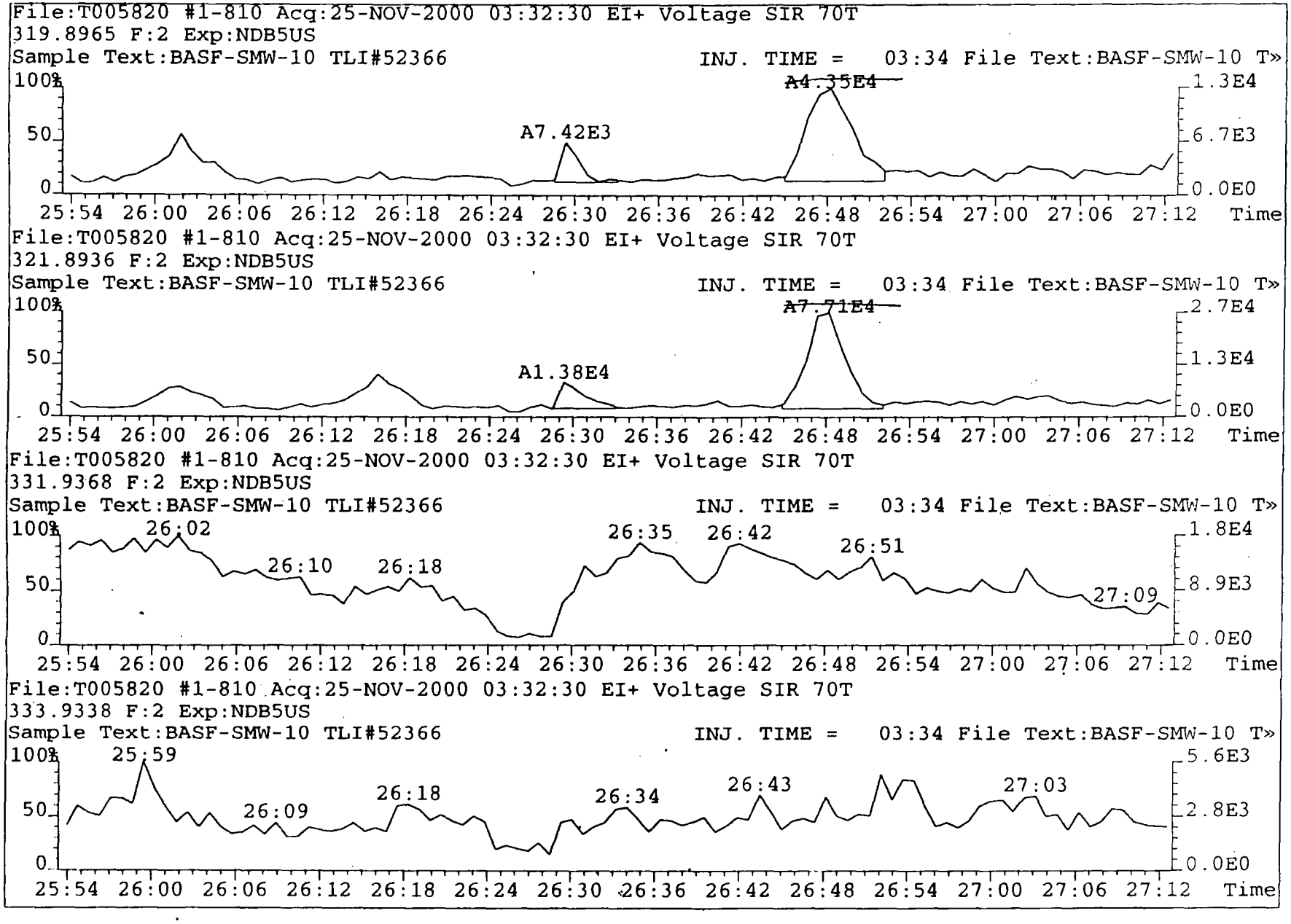
Ref. mass	416.9768			Peak top	
Height	.21	volts	Span	200	ppm

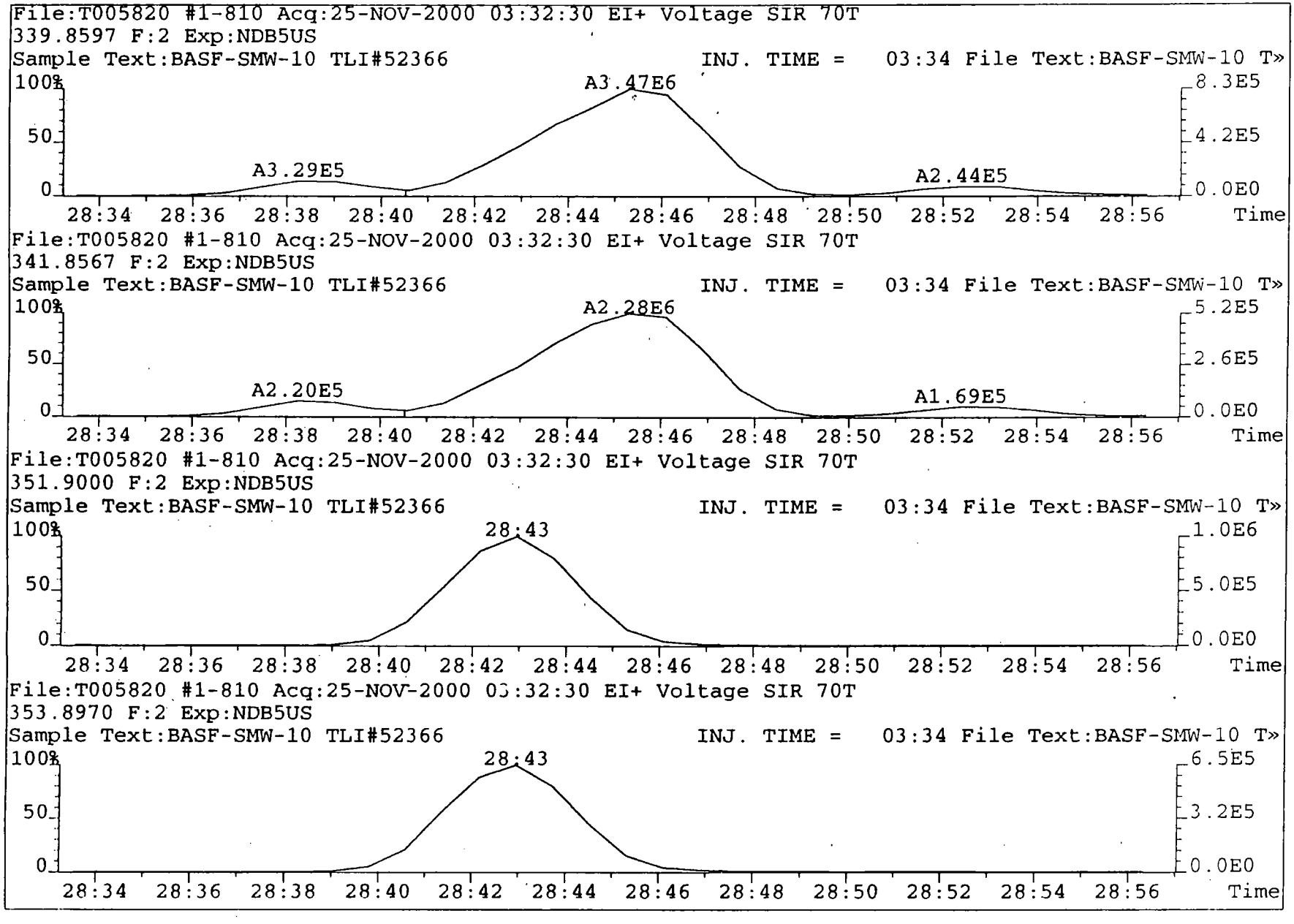


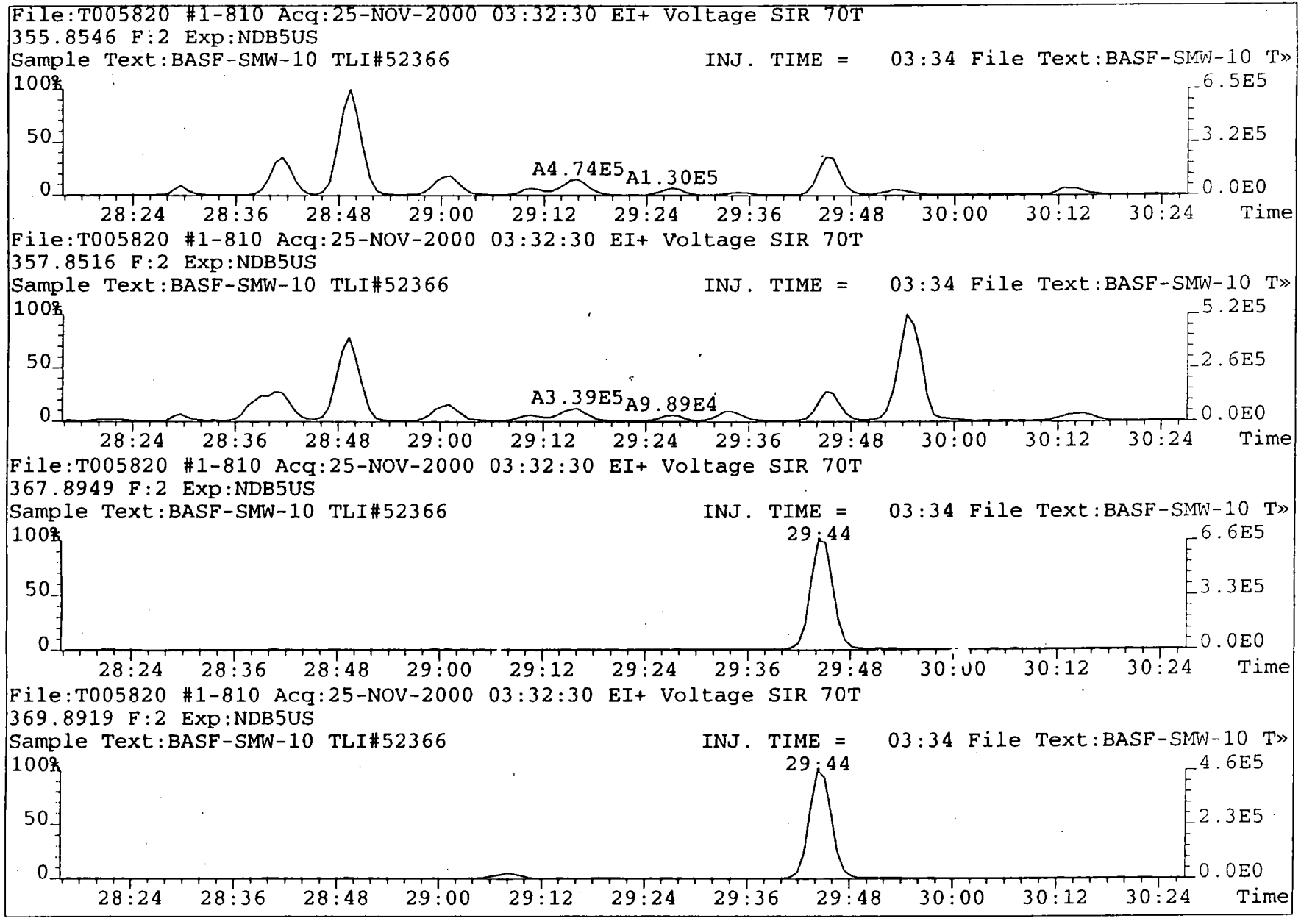
N = 0.386 H2 11/27/00

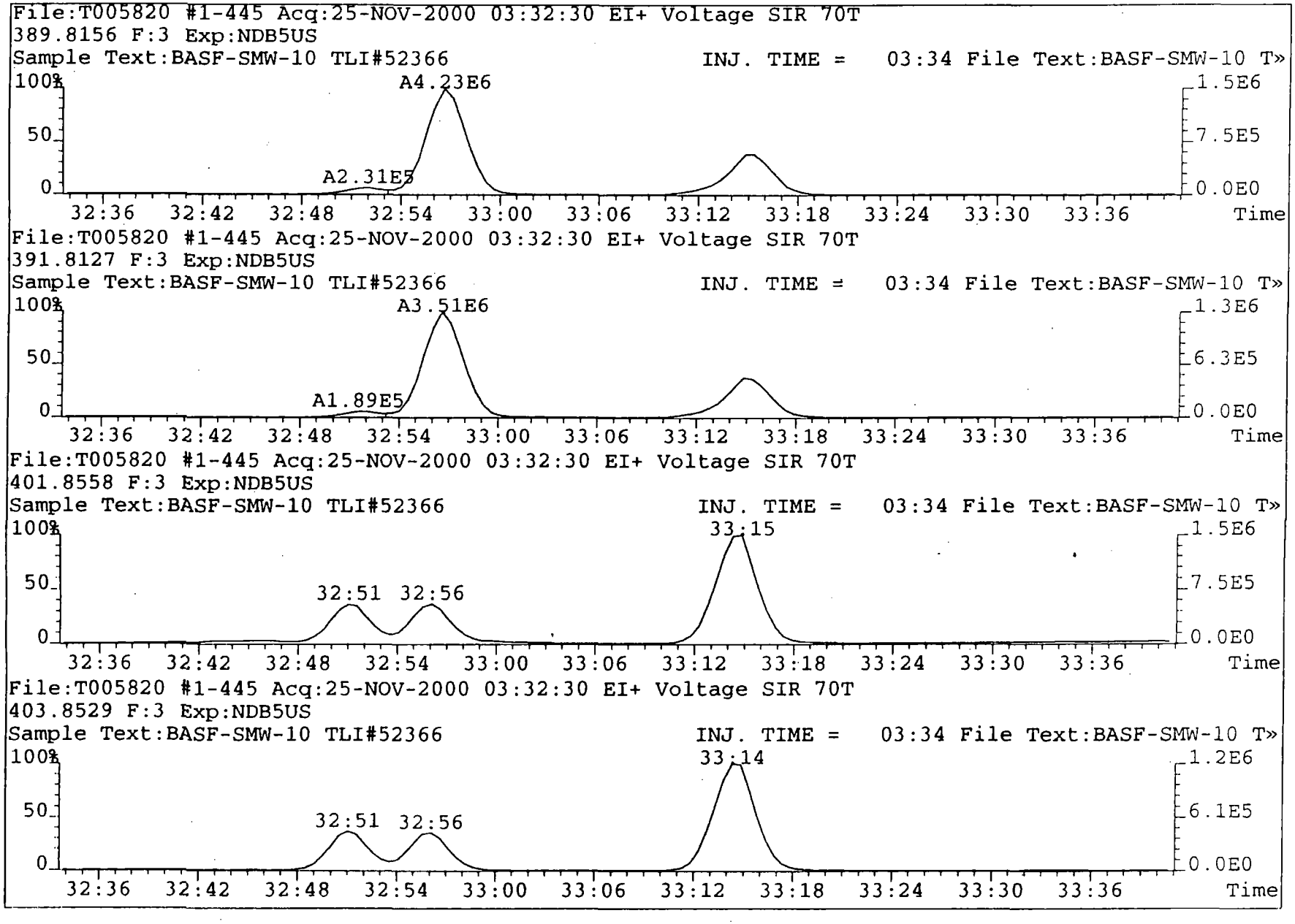

File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
303.9016 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
A3.02E6
1.5E6
7.6E5
0.0E0
25:00
26:00
27:00
Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
305.8987 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
A3.51E6
1.8E6
8.9E5
0.0E0
25:00
26:00
27:00
Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
315.9419 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
25:23
25:12
25:38 25:5126:02 26:19 26:3726:48 27:10 27:27 27:48
6.1E4
3.1E4
0.0E0
25:00
26:00
27:00
Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
317.9389 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366 INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
25:23
25:13
25:41 25:59 26:19 26:44 27:03 27:15 27:37 27:50
1.0E5
5.2E4
0.0E0
25:00
26:00
27:00
Time

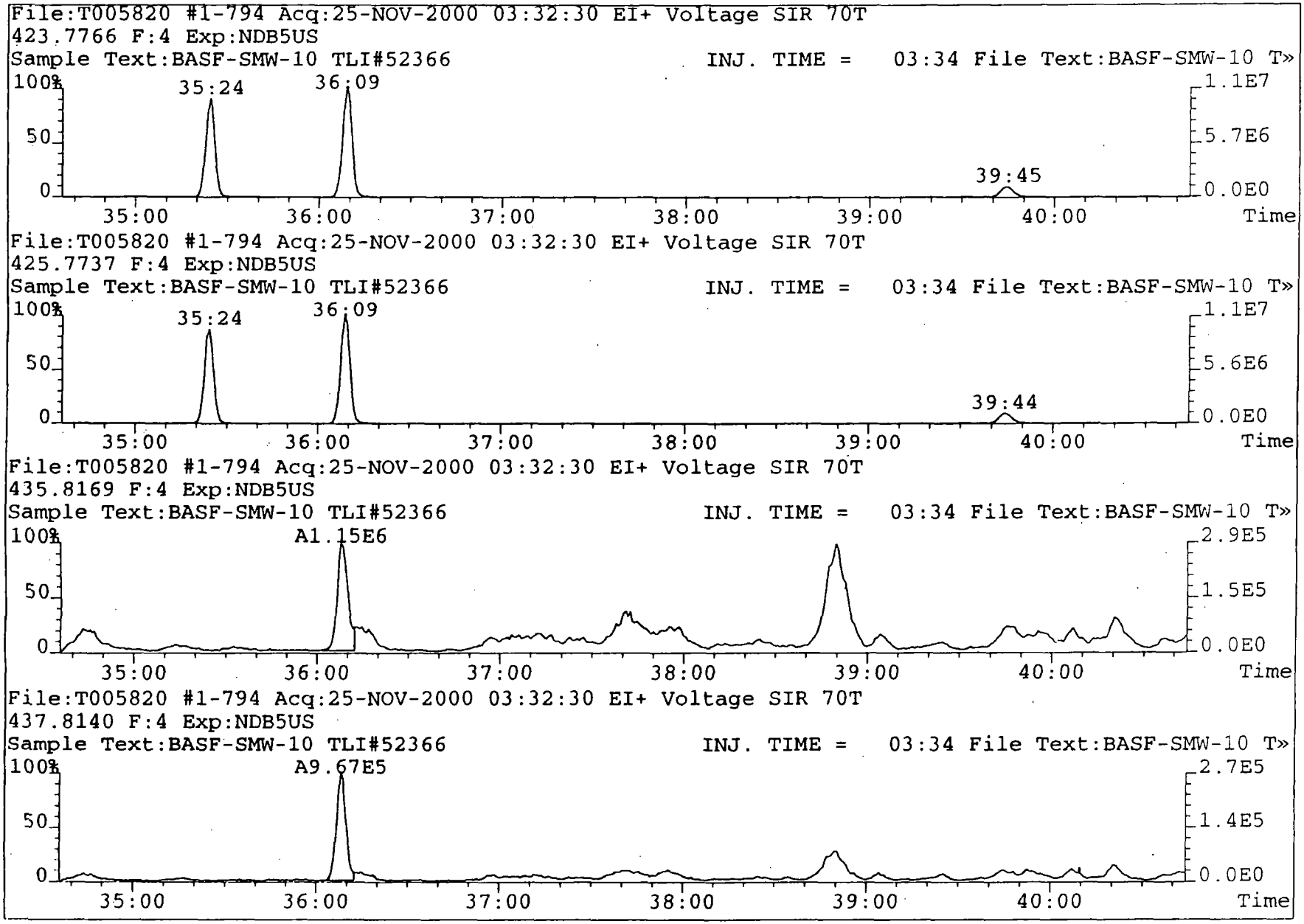

File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
319.8965 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
A1.79E5
A7.78E4
2.1E5
1.0E5
0.0E0
24:00
25:00
26:00
27:00
Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
321.8936 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
A1.12E6
A1.62E5
2.7E5
1.4E5
0.0E0
24:00
25:00
26:00
27:00
Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
331.9368 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
25:17
1.4E6
7.2E5
0.0E0
24:00
25:00
26:00
27:00
Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
333.9338 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
25:17
1.7E6
8.6E5
0.0E0
24:00
25:00
26:00
27:00
Time

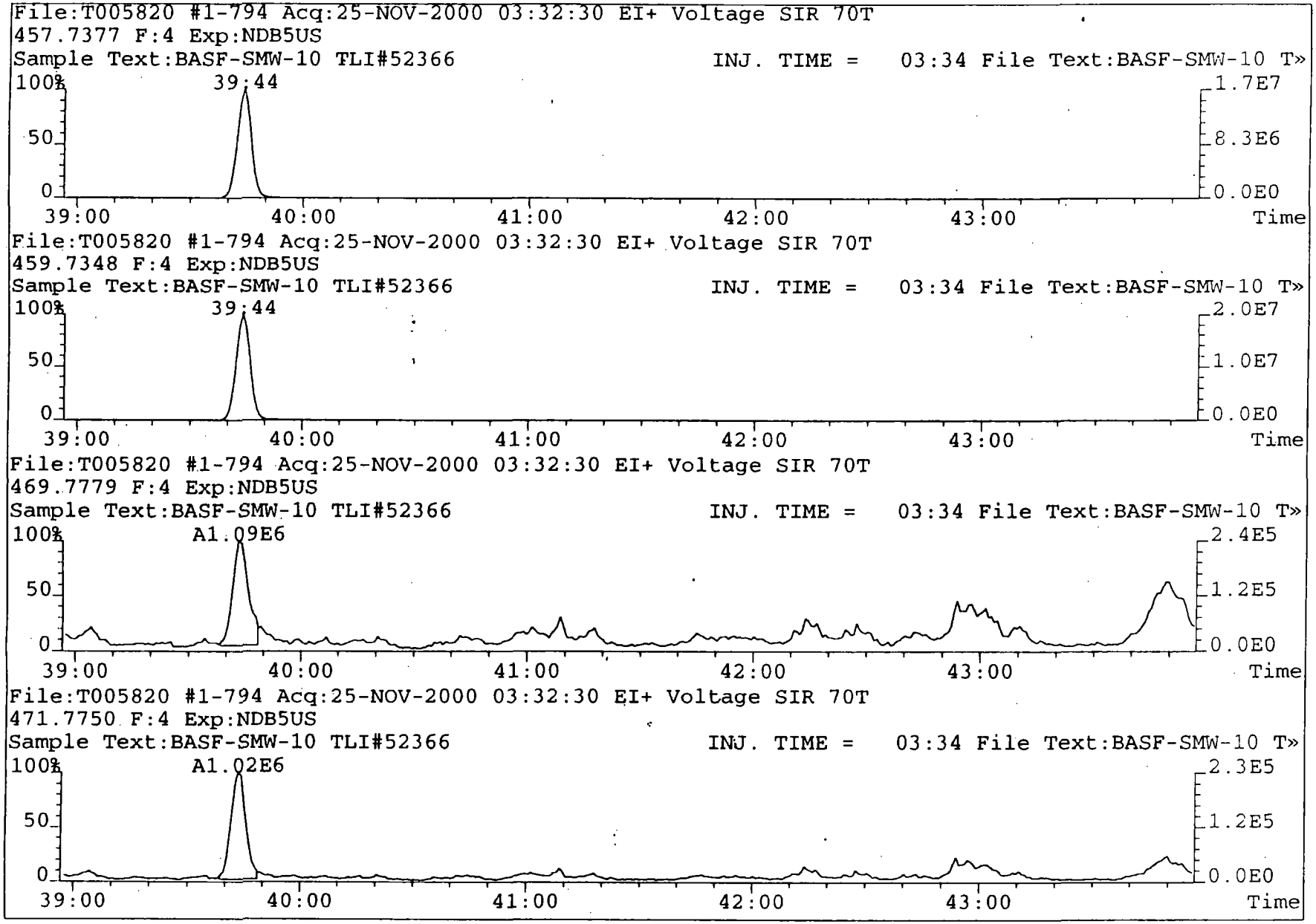

File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
319.8965 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
A7.42E3
A4.35E4
1.3E4
6.7E3
0.0E0
25:54 26:00 26:06 26:12 26:18 26:24 26:30 26:36 26:42 26:48 26:54 27:00 27:06 27:12 Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
321.8936 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
A1.38E4
A7.71E4
2.7E4
1.3E4
0.0E0
25:54 26:00 26:06 26:12 26:18 26:24 26:30 26:36 26:42 26:48 26:54 27:00 27:06 27:12 Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
331.9368 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
26:02
26:10
26:18
26:35
26:42
26:51
27:09
1.8E4
8.9E3
0.0E0
25:54 26:00 26:06 26:12 26:18 26:24 26:30 26:36 26:42 26:48 26:54 27:00 27:06 27:12 Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
333.9338 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
25:59
26:09
26:18
26:34
26:43
27:03
5.6E3
2.8E3
0.0E0
25:54 26:00 26:06 26:12 26:18 26:24 26:30 26:36 26:42 26:48 26:54 27:00 27:06 27:12 Time

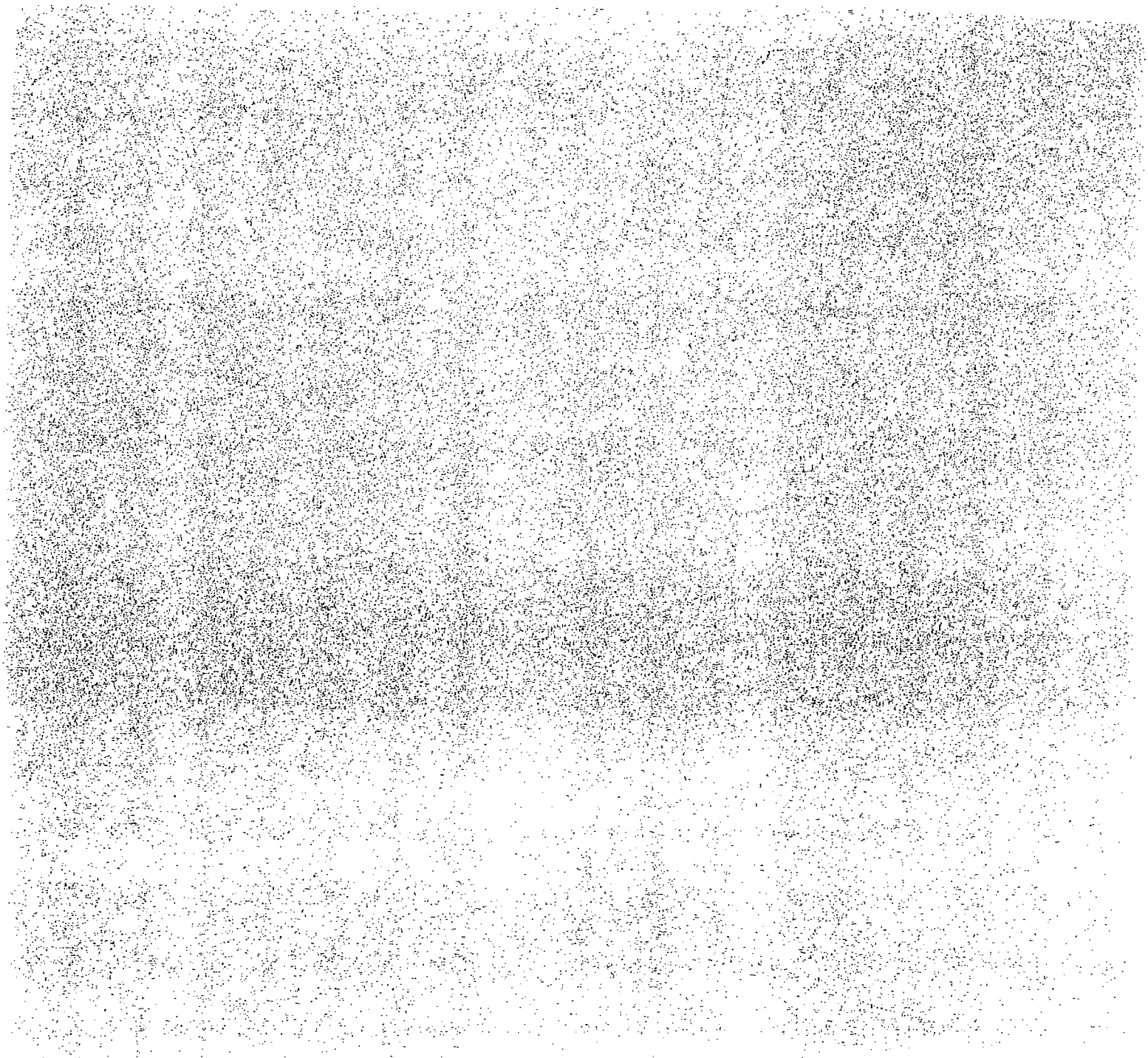

File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
339.8597 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
A3.47E6
A3.29E5
A2.44E5
8.3E5
4.2E5
0.0E0
28:34 28:36 28:38 28:40 28:42 28:44 28:46 28:48 28:50 28:52 28:54 28:56 Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
341.8567 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
A2.28E6
A2.20E5
A1.69E5
5.2E5
2.6E5
0.0E0
28:34 28:36 28:38 28:40 28:42 28:44 28:46 28:48 28:50 28:52 28:54 28:56 Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
351.9000 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
28:43
1.0E6
5.0E5
0.0E0
28:34 28:36 28:38 28:40 28:42 28:44 28:46 28:48 28:50 28:52 28:54 28:56 Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
353.8970 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
28:43
6.5E5
3.2E5
0.0E0
28:34 28:36 28:38 28:40 28:42 28:44 28:46 28:48 28:50 28:52 28:54 28:56 Time

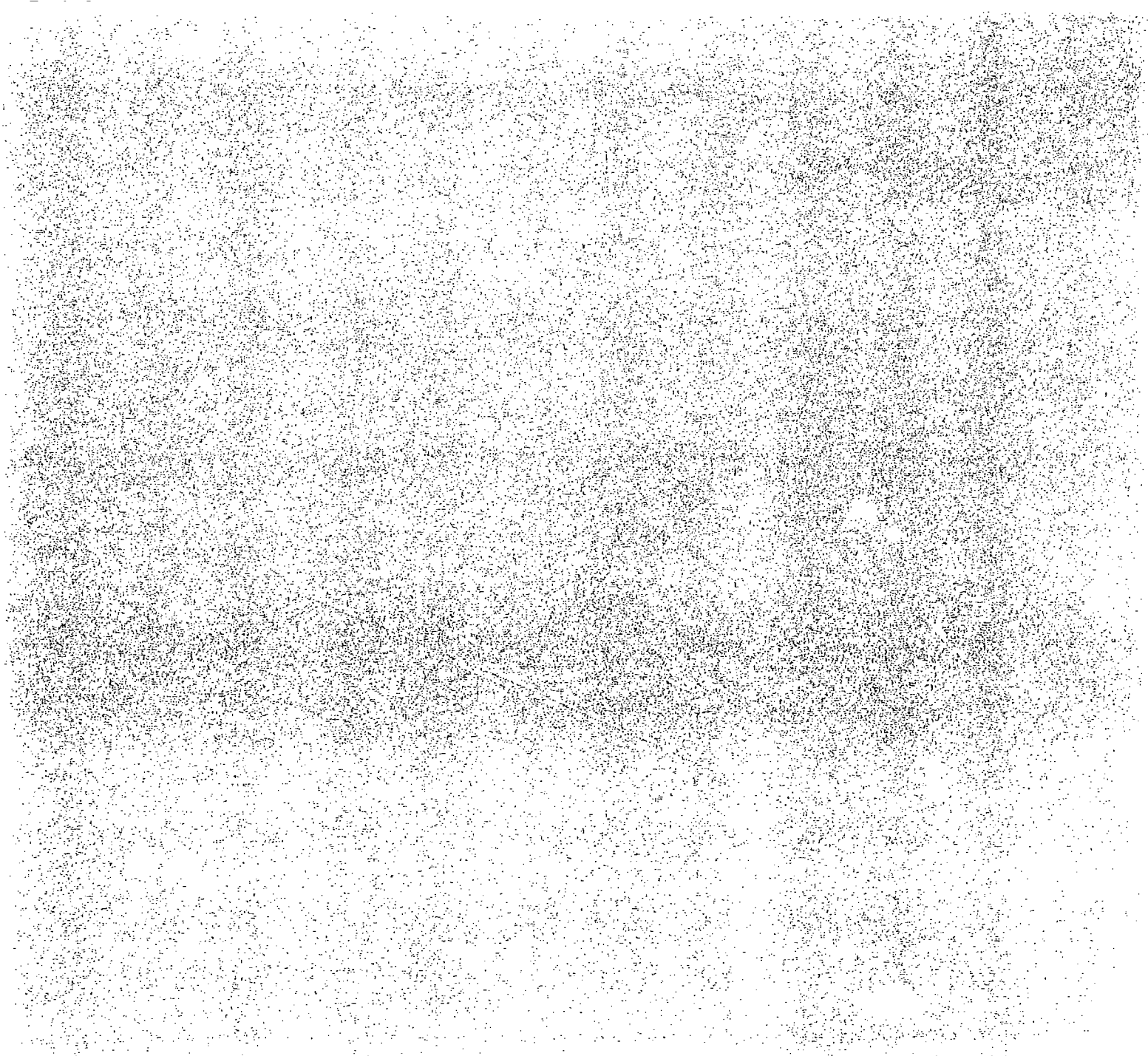

File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
355.8546 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
A4.74E5
A1.30E5
6.5E5
3.2E5
0.0E0
28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
357.8516 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
A3.39E5
A9.89E4
5.2E5
2.6E5
0.0E0
28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
367.8949 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
29:44
6.6E5
3.3E5
0.0E0
28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 Time
File:T005820 #1-810 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
369.8919 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
29:44
4.6E5
2.3E5
0.0E0
28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 Time


File:T005820 #1-445 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
389.8156 F:3 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
A4.23E6
A2.31E5
1.5E6
7.5E5
0.0E0
32:36 32:42 32:48 32:54 33:00 33:06 33:12 33:18 33:24 33:30 33:36
Time
File:T005820 #1-445 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
391.8127 F:3 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
A3.51E6
A1.89E5
1.3E6
6.3E5
0.0E0
32:36 32:42 32:48 32:54 33:00 33:06 33:12 33:18 33:24 33:30 33:36
Time
File:T005820 #1-445 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
401.8558 F:3 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
33:15
32:51 32:56
1.5E6
7.5E5
0.0E0
32:36 32:42 32:48 32:54 33:00 33:06 33:12 33:18 33:24 33:30 33:36
Time
File:T005820 #1-445 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
403.8529 F:3 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
33:14
32:51 32:56
1.2E6
6.1E5
0.0E0
32:36 32:42 32:48 32:54 33:00 33:06 33:12 33:18 33:24 33:30 33:36
Time


File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
423.7766 F:4 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
35:24
36:09
39:45
1.1E7
5.7E6
0.0E0
35:00
36:00
37:00
38:00
39:00
40:00
Time
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
425.7737 F:4 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
35:24
36:09
39:44
1.1E7
5.6E6
0.0E0
35:00
36:00
37:00
38:00
39:00
40:00
Time
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
435.8169 F:4 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
A1.15E6
2.9E5
1.5E5
0.0E0
35:00
36:00
37:00
38:00
39:00
40:00
Time
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
437.8140 F:4 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
50
0
A9.67E5
2.7E5
1.4E5
0.0E0
35:00
36:00
37:00
38:00
39:00
40:00
Time


File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
457.7377 F:4 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
39:44
1.7E7
8.3E6
0.0E0
50
0
39:00
40:00
41:00
42:00
43:00
Time
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
459.7348 F:4 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
39:44
2.0E7
1.0E7
0.0E0
50
0
39:00
40:00
41:00
42:00
43:00
Time
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
469.7779 F:4 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
A1.09E6
2.4E5
1.2E5
0.0E0
50
0
39:00
40:00
41:00
42:00
43:00
Time
File:T005820 #1-794 Acq:25-NOV-2000 03:32:30 EI+ Voltage SIR 70T
471.7750 F:4 Exp:NDB5US
Sample Text:BASF-SMW-10 TLI#52366
INJ. TIME = 03:34 File Text:BASF-SMW-10 T»
100%
A1.02E6
2.3E5
1.2E5
0.0E0
50
0
39:00
40:00
41:00
42:00
43:00
Time





TriMatrix, Inc.

TLI Project: **52366** Method 8290 TCDD/TCDF Analysis (DB-225)
Client Sample: **BASF-SMW-10** Analysis File: **P004342**

Client Project:	BASF-Malcolm Pirnie			ICal:	PF2O230
Sample Matrix:	WATER	Date Received:	11/17/2000	Spike File:	SPC2NF2S
TLI ID:	274-99-3A	Date Extracted:	11/21/2000	1st CCal:	P004340
		Date Analyzed:	11/29/2000	End CCal:	P004350
Sample Size:	1.080 L	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T005817	% Lipid:	n/a
GC Column:	DB-225	Analyst:	MVL	% Solids:	n/a

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDF	1490			0.74	23:43	___

Internal Standard	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	573	30.9	40%-130%	0.78	23:42	V___

Recovery Standard	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.79	22:31	___

Data Reviewer: _____ 11/30/2000

C2NF_PSR v2.03, LARS 6 25 00

Triangle Laboratories, Inc.
801 Capitola Drive • Durham, North Carolina 27713
Phone: (919) 544-5729 • Fax: (919) 544-5491

Printed: 10:15 11/30/2000

Initial ....Date...

Data Review By: CMS 1/30/00

Calculated Noise Height: 0.11

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

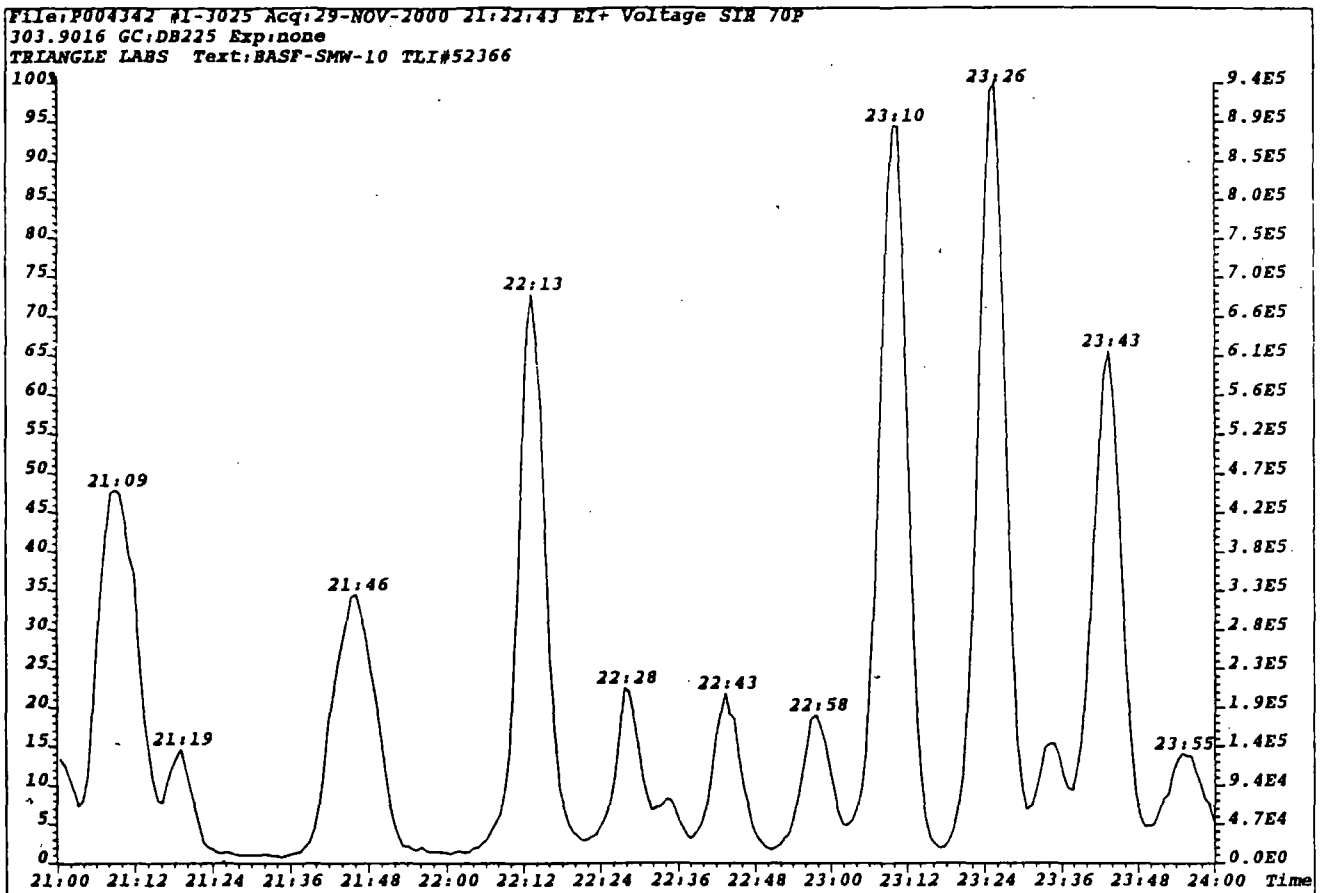
Page No. 1 Listing of P004342B.dbf
11/30/2000 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_I....	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					0.703-1.170				
304-306	DC	NL		Height			0.29	0.14	0.15				
				18:57	RO	3.87	13.20	28.90	7.46	0.990			
				19:07		0.74	51.84	22.06	29.78	0.998			
				19:17	RO	1.90	21.15	22.73	11.95	1.007			
				19:25	RO	1.65	18.34	17.09	10.36	1.014			
				19:50		0.65	59.74	23.49	36.25	1.036			
				20:07		0.76	156.02	67.39	88.63	1.050			
				20:15		0.69	53.36	21.87	31.49	1.057			
				20:21		0.76	251.71	108.47	143.24	1.063			
				20:48		0.80	68.27	30.44	37.83	1.086			
				20:54		0.78	351.72	153.84	197.88	1.091			
				21:00		0.73	93.51	39.52	53.99	1.097			
	DC	WH		21:09		0.76	743.45			1.104			
	DC	WH		21:19		0.70	133.74			1.113			
	DC	WH		21:46		0.76	552.82			1.137			
	DC	WH		22:13		0.77	790.94			1.160			
	DC	WH		22:28		0.83	206.64			1.173			
	DC	WH		22:43		0.85	218.41			1.186			
	DC	WH		22:58		0.77	207.84			1.199			
	DC	WH		23:10		0.75	1,089.83			1.210			
	DC	WH		23:26		0.76	1,111.09			1.224			
	DC	WH		23:35		0.84	154.93			1.232			
KN				23:43		0.74	784.75	334.94	449.81	1.238	2378-TCDF		AN
	DC	WH		23:55		0.77	222.02			1.249			
	DC	WH		24:12		0.80	201.38			1.264			
	DC	WH		24:25		0.76	699.79			1.275			
	DC	WH		24:37	RO	0.51	5.42			1.285			
	DC	WH		24:45	RO	0.24	0.92			1.292			
	DC	WH		25:02		0.78	369.07			1.307			
	DC	WH		25:11		0.69	182.23			1.315			
	DC	WH		25:41		0.70	3.29			1.341			
	DC	WH		25:49	RO	1.53	0.27			1.348			
	DC	WH		26:08		0.76	1,708.43			1.365			
	DC	WH		26:24	RO	0.07	0.23			1.379			
304-306				12 Peaks			1,923.61						
13C12-TCDF				0.65-0.89					0.958-1.042				
316-318	DC	NL		Height			0.21	0.08	0.13				
				18:39		0.72	131.18	54.97	76.21	0.974			
N				19:09		0.74	29,247.70	12,421.00	16,826.70	1.000			
				19:52	RO	0.30	28.25	12.29	40.97	1.037			
	DC	WH		20:19	RO	0.63	106.29			1.061			
	DC	WH		21:18	RO	0.43	41.65			1.112			

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	22:52	RO	0.41	32.73			1.194			
	KN			23:42		0.78	1,201.22	526.71	674.51	1.238	13C12-2378-TCDF	IS0	
						Height	218.27	95.41	122.86				
316-318			4 Peaks				30,608.35						
							---------- Above: TCDF / TCDD Follows ----------						
13C12-TCDD						0.65-0.89				0.910-1.090			
332-334		DC	NL			Height	0.44	0.35	0.09				
		DC	WL	19:52	RO	3.59	7.86			0.882			
	N			22:18		0.78	938.44	412.67	525.77	0.990	13C12-2378-TCDD	IS1	
						Height	168.89	74.24	94.65				
	N			22:31		0.79	2,129.91	937.64	1,192.27	1.000	13C12-1234-TCDD	RS1	
				24:01	RO	0.90	6.62	3.38	3.74	1.067			
		DC	WH	24:44		0.71	24.87			1.098			
		DC	WH	24:49	RO	0.58	5.38			1.102			
		DC	WH	25:01	RO	0.93	25.31			1.111			
		DC	WH	25:19		0.87	101.08			1.124			
332-334			3 Peaks				3,074.97						

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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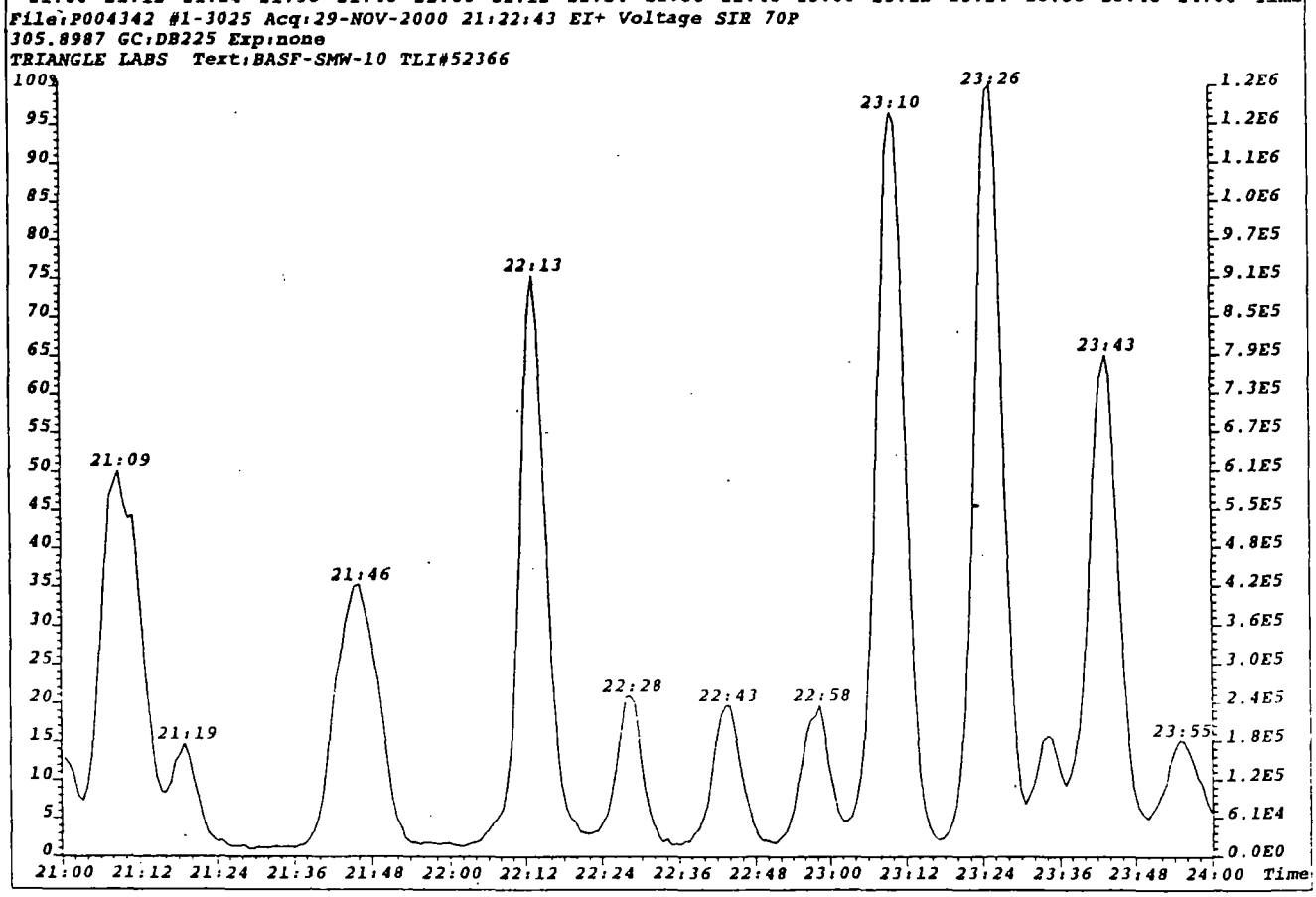
303.9016 GC:DB225 Exp:none
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
21:09
21:19
21:46
22:13
22:28
22:43
22:58
23:10
23:26
23:43
23:55
Time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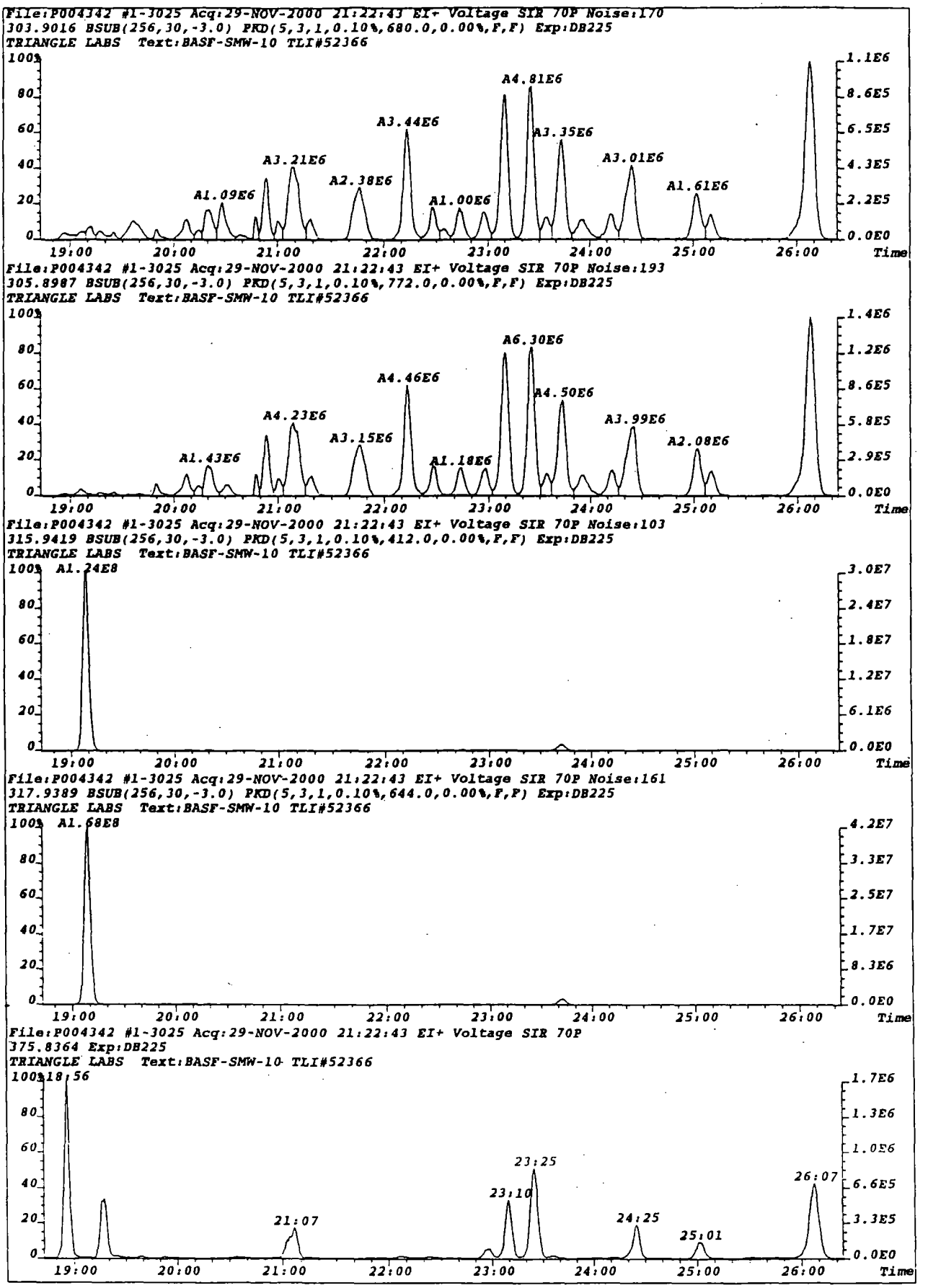
305.8987 GC:DB225 Exp:none
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
21:09
21:19
21:46
22:13
22:28
22:43
22:58
23:10
23:26
23:43
23:55
Time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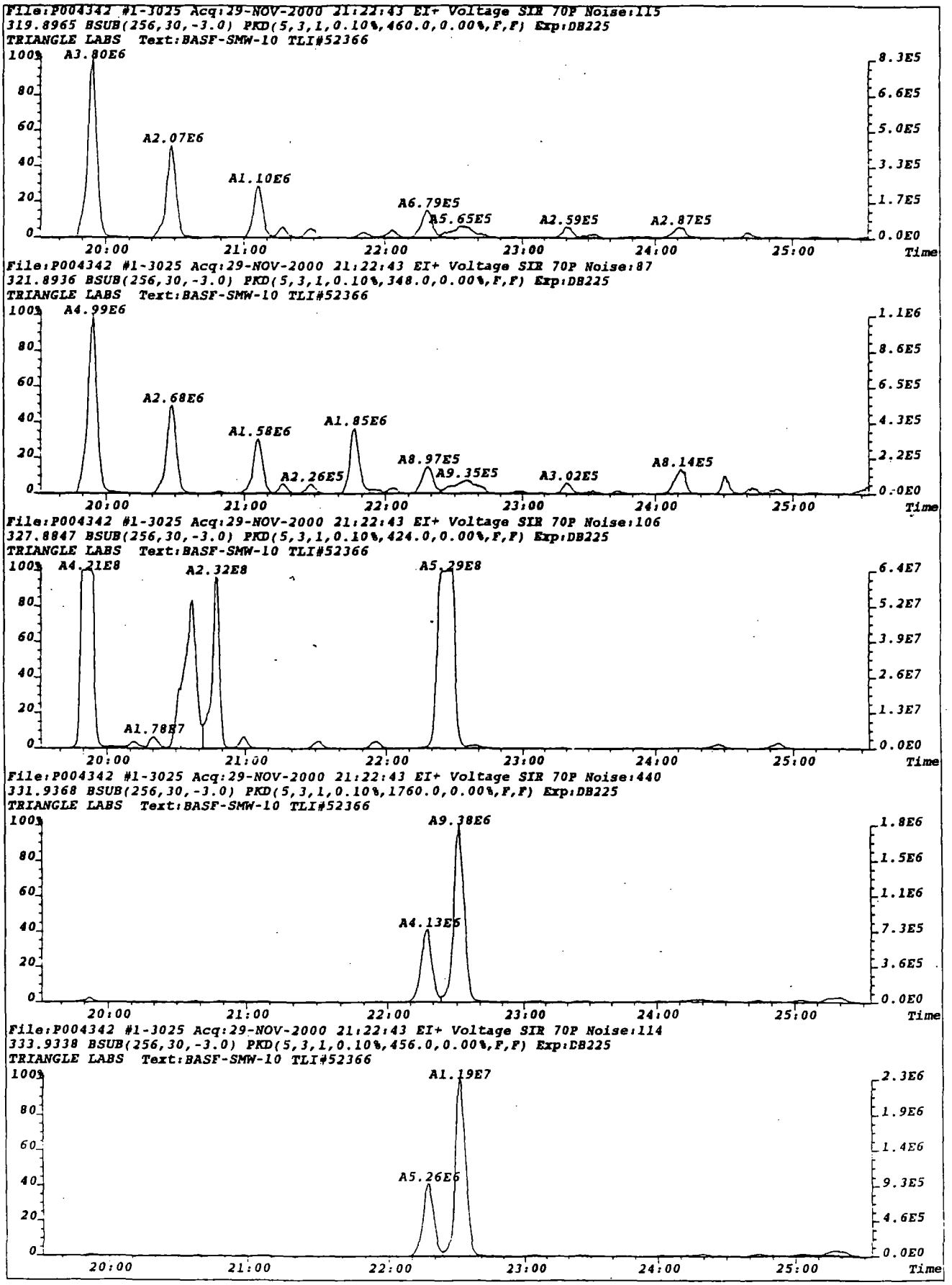
303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,680.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
A1.09E6
A3.21E6
A2.38E6
A3.44E6
A1.00E6
A4.81E6
A3.35E6
A3.01E6
A1.61E6
File:P004342 #1-3025 Acq:29-NOV-2000 21:22:43 EI+ Voltage SIR 70P Noise:193
305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,772.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
A1.43E6
A4.23E6
A3.15E6
A4.46E6
A1.18E6
A6.30E6
A4.50E6
A3.99E6
A2.08E6
File:P004342 #1-3025 Acq:29-NOV-2000 21:22:43 EI+ Voltage SIR 70P Noise:103
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,412.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
A1.24E8
File:P004342 #1-3025 Acq:29-NOV-2000 21:22:43 EI+ Voltage SIR 70P Noise:161
317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,644.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
A1.68E8
File:P004342 #1-3025 Acq:29-NOV-2000 21:22:43 EI+ Voltage SIR 70P
375.8364 Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
18:56
21:07
23:10
23:25
24:25
25:01
26:07
19:00
20:00
21:00
22:00
23:00
24:00
25:00
26:00
Time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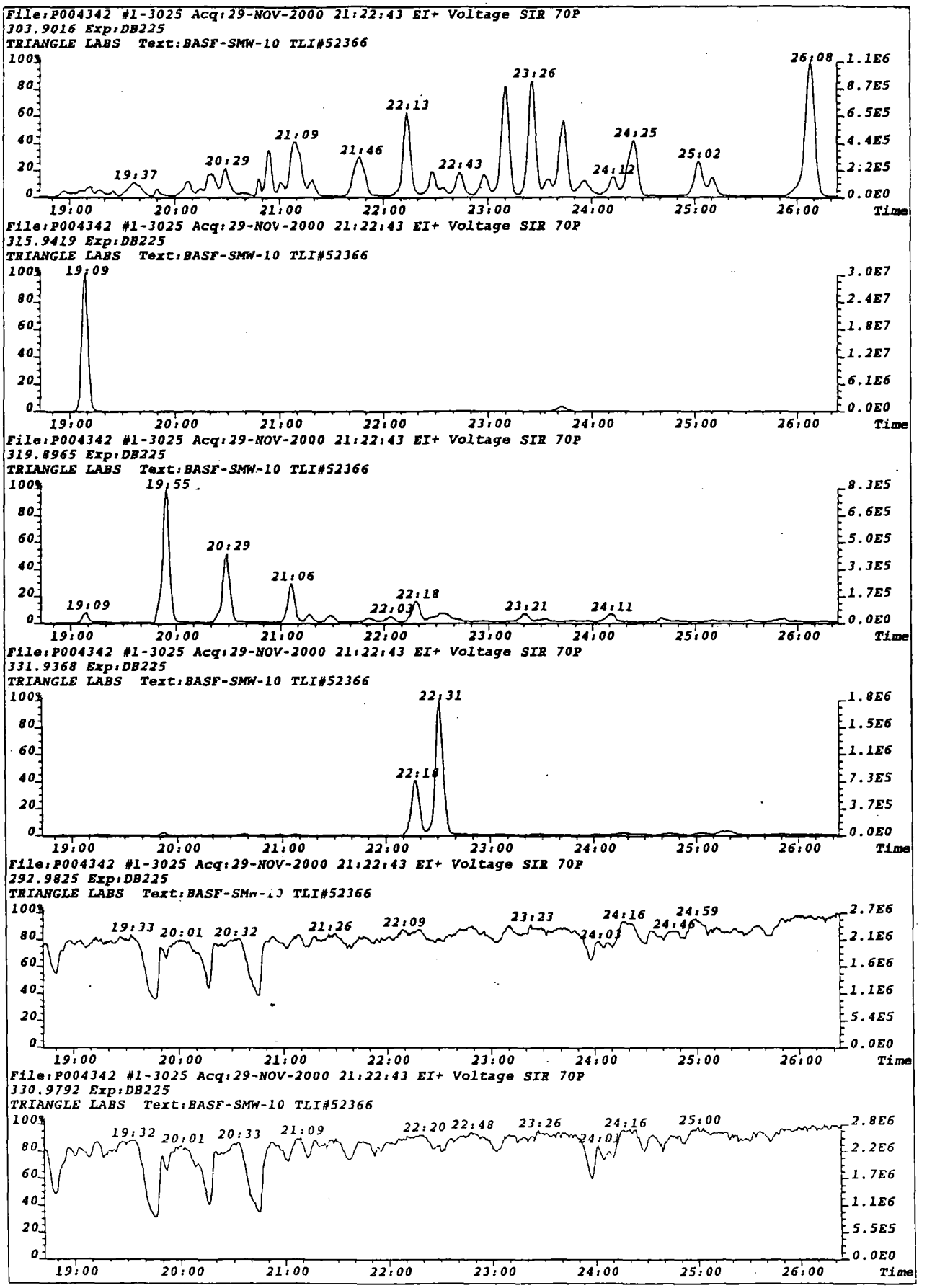
319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,460.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
A3.80E6
A2.07E6
A1.10E6
A6.79E5
A5.65E5
A2.59E5
A2.87E5
File:P004342 #1-3025 Acq:29-NOV-2000 21:22:43 EI+ Voltage SIR 70P Noise:87
321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,348.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
A4.99E6
A2.68E6
A1.58E6
A1.85E6
A2.26E5
A8.97E5
A9.35E5
A3.02E5
A8.14E5
File:P004342 #1-3025 Acq:29-NOV-2000 21:22:43 EI+ Voltage SIR 70P Noise:106
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,424.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
A4.21E8
A2.32E8
A5.29E8
A1.78E7
File:P004342 #1-3025 Acq:29-NOV-2000 21:22:43 EI+ Voltage SIR 70P Noise:440
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1760.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
A9.38E6
A4.13E5
File:P004342 #1-3025 Acq:29-NOV-2000 21:22:43 EI+ Voltage SIR 70P Noise:114
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,456.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
A1.19E7
A5.26E6
20:00
21:00
22:00
23:00
24:00
25:00
Time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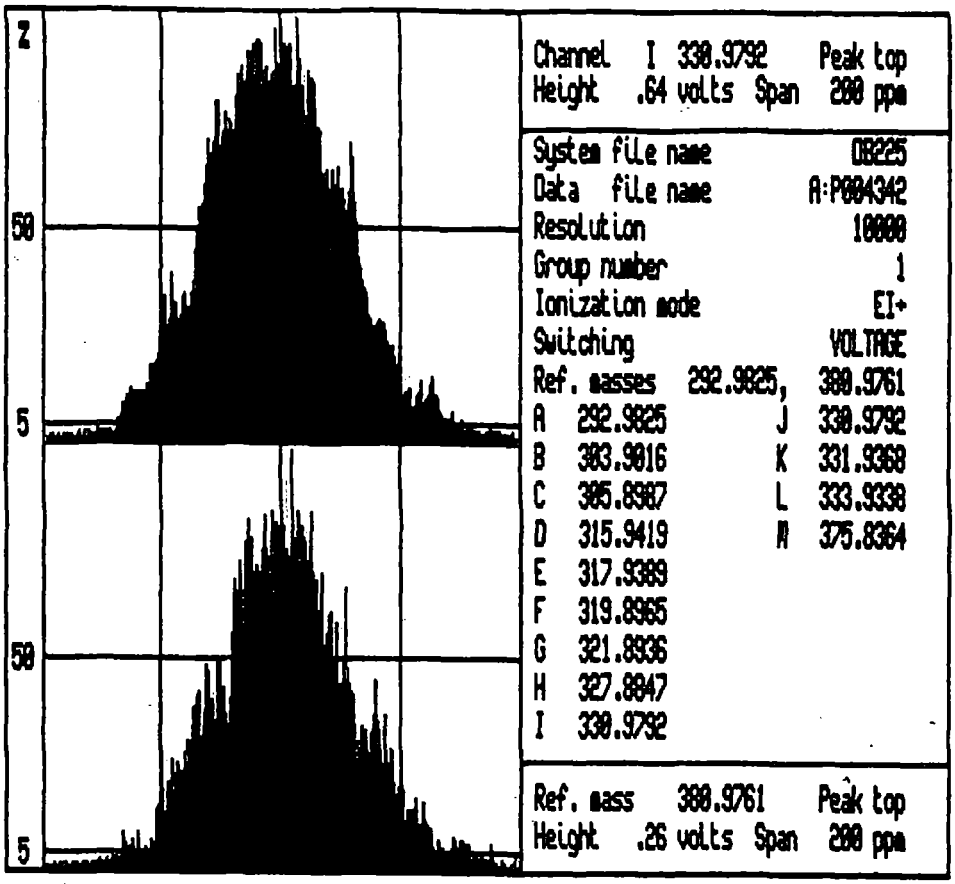
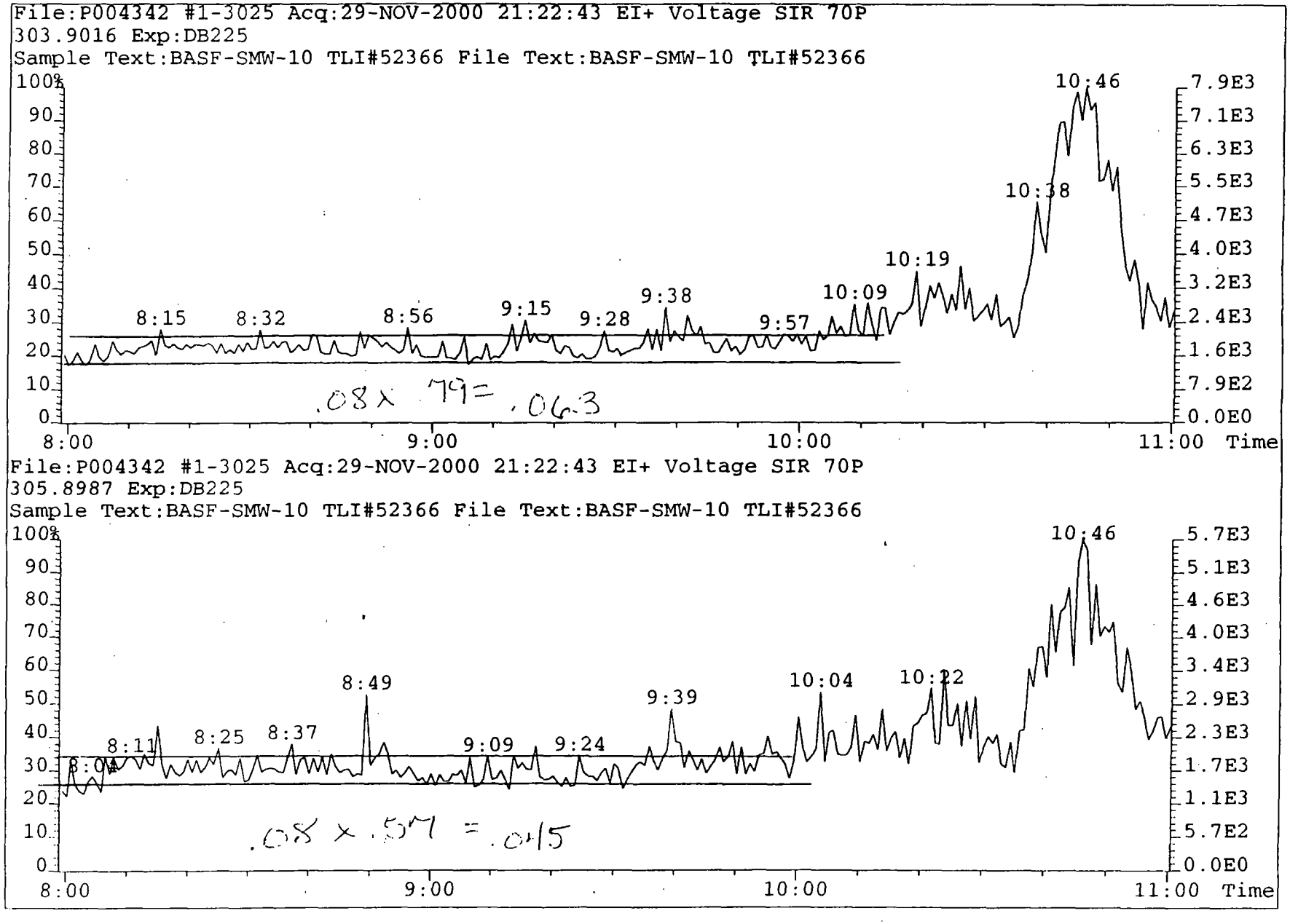
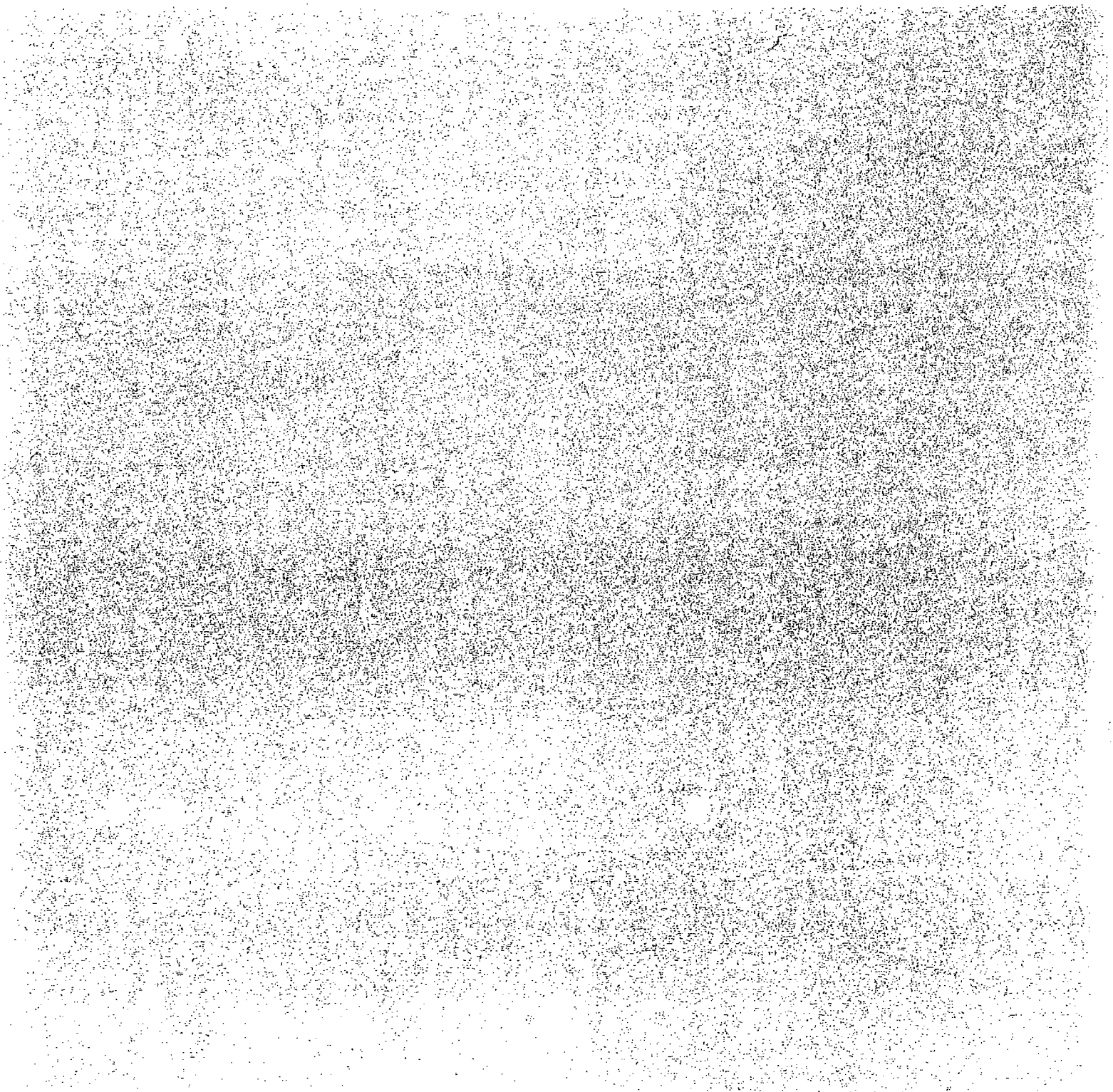
303.9016 Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
19:37
20:29
21:09
21:46
22:13
22:43
23:26
24:12
24:25
25:02
26:08
Time
File:P004342 #1-3025 Acq:29-NOV-2000 21:22:43 EI+ Voltage SIR 70P
315.9419 Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
19:09
Time
File:P004342 #1-3025 Acq:29-NOV-2000 21:22:43 EI+ Voltage SIR 70P
319.8965 Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
19:09
19:55
20:29
21:06
22:03
22:18
23:21
24:11
Time
File:P004342 #1-3025 Acq:29-NOV-2000 21:22:43 EI+ Voltage SIR 70P
331.9368 Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
22:18
22:31
Time
File:P004342 #1-3025 Acq:29-NOV-2000 21:22:43 EI+ Voltage SIR 70P
292.9825 Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
19:33
20:01
20:32
21:26
22:09
23:23
24:01
24:16
24:46
24:59
Time
File:P004342 #1-3025 Acq:29-NOV-2000 21:22:43 EI+ Voltage SIR 70P
330.9792 Exp:DB225
TRIANGLE LABS Text:BASF-SMW-10 TLI#52366
19:32
20:01
20:33
21:09
22:20
22:48
23:26
24:01
24:16
25:00
Time


Z
50
5
50
5
Channel I 330.9792 Peak top
Height .64 volts Span 200 ppm
System file name DB225
Data file name A:P004342
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
Ref. mass 380.9761 Peak top
Height .26 volts Span 200 ppm



96

NH = 063 + .045 = .108 DKS 11/30/02



TriMatrix, Inc.

TLI Project: **52366** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **BASF-SMW-10 (MS)** Analysis File: **T005821**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/2000**	Spike File:	**SPMIT32S**
TLI ID:	**274-99-3BMS**	Date Extracted:	**11/21/2000**	ICal:	**TF57140**
		Date Analyzed:	**11/25/2000**	ConCal:	**T005815**
Sample Size:	**1.090 L**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005817**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	694			0.77	25:30	___
1,2,3,7,8-PeCDD	2290			1.59	29:46	___
1,2,3,4,7,8-HxCDD	1960			1.20	32:53	___
1,2,3,6,7,8-HxCDD	14630			1.22	32:58	___
1,2,3,7,8,9-HxCDD	5310			1.23	33:16	___
1,2,3,4,6,7,8-HpCDD	177190			1.03	36:10	E__
1,2,3,4,6,7,8,9-OCDD	367280			0.82	39:46	E__
2,3,7,8-TCDF	2180			0.83	24:46	___
1,2,3,7,8-PeCDF	4350			1.52	28:45	___
2,3,4,7,8-PeCDF	2380			1.51	29:26	___
1,2,3,4,7,8-HxCDF	3590			1.28	32:11	___
1,2,3,6,7,8-HxCDF	2410			1.28	32:17	___
2,3,4,6,7,8-HxCDF	2330			1.28	32:46	___
1,2,3,7,8,9-HxCDF	2240			1.31	33:31	___
1,2,3,4,6,7,8-HpCDF	3950			1.07	35:08	___
1,2,3,4,7,8,9-HpCDF	1930			1.06	36:40	___
1,2,3,4,6,7,8,9-OCDF	4880			0.92	39:56	___

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	709	38.6	40%-130%	0.76	24:45	V___
$^{13}C_{12}$-2,3,7,8-TCDD	618	33.7	40%-130%	0.81	25:29	V___
$^{13}C_{12}$-1,2,3,7,8-PeCDF	526	28.7	40%-130%	1.52	28:44	V___
$^{13}C_{12}$-1,2,3,7,8-PeCDD	580	31.6	40%-130%	1.51	29:46	V___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	565	30.8	40%-130%	0.51	32:17	V___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	631	34.4	40%-130%	1.36	32:57	V___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	478	26.0	25%-130%	0.43	35:08	___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	550	30.0	25%-130%	1.19	36:09	___
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	566	15.4	25%-130%	1.10	39:45	VRO___

MIT3_PSR v1.00, LARS 6.25/01

Triangle Laboratories, Inc.
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Printed: 18:37 11/29/2000

TriMatrix, Inc.

TLI Project: **52366** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **BASF-SMW-10 (MS)** Analysis File: **T005821**

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	477	26.0	40%-130%	1.52	29:25	V___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	575	31.3	40%-130%	0.51	32:11	V___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	610	33.2	40%-130%	1.34	32:52	V___
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	430	23.4	25%-130%	0.43	36:39	V___

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	228	124	40%-130%	25:30	___

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	678	37.0	40%-130%	0.50	33:31	V___
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	558	30.4	40%-130%	0.51	32:45	V___

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.82	25:17	___
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.21	33:15	___

Data Reviewer: _____ 11/29/2000

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Printed: 18:37 11/29/2000

Initial ....Date...

Data Review By: JCM 11-29-00

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.

Listing of T005821B.dbf
11/29/2000 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			0.860-1.077				
304-306	DC	NL				Height	0.70	0.40	0.30				
				21:59		0.84	86.08	39.25	46.83	0.888			
				22:21		0.88	64.16	30.04	34.12	0.903			
				22:46		0.87	251.76	117.27	134.49	0.920			
				23:03		0.88	255.69	119.58	136.11	0.931			
				23:25		0.85	272.28	125.00	147.28	0.946			
				23:43		0.85	178.23	81.78	96.45	0.958			
				24:09		0.85	357.53	164.51	193.02	0.976			
				24:20		0.84	738.18	337.91	400.27	0.983	1278-TCDF		AN
				24:34		0.86	110.29	50.95	59.34	0.993			
				24:46		0.83	863.12	391.78	471.34	1.001	2378-TCDF		AN
				25:12		0.84	162.28	74.31	87.97	1.018			
				25:24		0.86	116.01	53.64	62.37	1.026			
				25:34		0.84	110.04	50.26	59.78	1.033			
				25:50		0.83	570.97	258.46	312.51	1.044			
				26:12		0.85	668.60	307.84	360.76	1.059			
				26:31		0.87	48.02	22.31	25.71	1.071			
	DC	WH		26:47		0.87	272.55			1.082			
304-306			16 Peaks				4,353.24						
13C12-TCDF						0.65-0.89			0.959-1.041				
316-318	DC	NL				Height	1.86	0.76	1.10				
	DC	WL		21:09		0.71	82.59			0.855			
	DC	WL		22:36	RO	0.61	43.33			0.913			
	DC	WL		22:47		0.68	11.50			0.921			
	DC	WL		23:14	RO	0.26	8.94			0.939			
	DC	WL		23:35		0.66	69.05			0.953			
	DC	SN		24:19	RO	0.56	7.26			0.982			
				24:45		0.76	709.53	305.63	403.90	1.000	13C12-2378-TCDF		ISO
						Height	172.41	74.78	97.63				
				25:14		0.69	11.45	4.69	6.76	1.020			
				25:23	RO	0.64	58.78	25.57	40.15	1.026			
316-318			3 Peaks				779.76						

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

TCDD						0.65-0.89			0.890-1.045				
320-322	DC	NL				Height	0.63	0.25	0.38				
				22:55		0.78	1,395.85	610.84	785.01	0.899	1368-TCDD	AN	E
				23:18		0.78	504.08	221.05	283.03	0.914	1379-TCDD	AN	
				23:35	RO	0.17	38.14	16.59	95.25	0.925			
				24:18		0.79	172.14	75.71	96.43	0.954			
				24:33		0.72	27.59	11.58	16.01	0.963			

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.
					24:39	RO	0.42	22.23	9.67	23.27	0.967			
					24:57		0.74	21.14	9.02	12.12	0.979			
					25:23		0.69	66.40	27.09	39.31	0.996			
					25:30		0.77	175.63	76.27	99.36	1.001	2378-TCDD	AN	
					25:38		0.74	6.12	2.61	3.51	1.006			
					25:50		0.71	34.49	14.33	20.16	1.014			
					26:02		0.66	4.95	1.97	2.98	1.022			
					26:30	RO	0.29	1.79	0.78	2.69	1.040			J
	DC		WH		26:49		0.66	10.41			1.052			
320-322			13	Peaks				2,470.55						
37Cl-TCDD										0.921-1.079				
328	DC		NL				Height	4.50	4.50					
	DC		WL		23:02			88.93			0.904			
	DC		WL		23:10			1,258.01			0.909			
	DC		WL		23:17			889.09			0.914			
					23:47			92.89	92.89		0.933			
					24:04			35,275.10	35,275.10		0.944			
					24:31			112.10	112.10		0.962			
					24:56			27.06	27.06		0.978			
					25:04			72.26	72.26		0.984			
					25:22			726.73	726.73		0.995			
					25:30			158.66	158.66		1.001	37Cl-TCDD	CLS	
					25:52			544.78	544.78		1.015			
					26:48			805.35	805.35		1.052			
328			9	Peaks				37,814.93						
13C12-TCDD							0.65-0.89			0.921-1.079				
332-334	DC		NL				Height	2.30	2.02	0.28				
					24:05	RO	1.29	14.30	10.45	8.08	0.945			
					25:17		0.82	1,432.79	644.84	787.95	0.992	13C12-1234-TCDD	RS1	
					25:29		0.81	507.77	226.76	281.01	1.000	13C12-2378-TCDD	IS1	
							Height	131.33	58.99	72.34				
	DC		SN		25:37	RO	1.78	2.60			1.005			
	DC		SN		26:51	RO	1.02	1.54			1.054			
332-334			3	Peaks				1,954.86						
---------- Above: TCDD / PeCDF Follows ----------														
PeCDF							1.32-1.78			0.923-1.064				
340-342	DC		NL				Height	0.49	0.30	0.19				
					26:45		1.45	107.28	63.56	43.72	0.931			
	DC		SN		26:54	RO	9.71	1.22			0.936			
					27:27	RO	1.15	4.79	2.91	2.53	0.955			J
					27:53		1.50	362.84	217.51	145.33	0.970			
					28:07		1.54	90.24	54.77	35.47	0.979			
					28:16		1.68	13.06	8.19	4.87	0.984			
					28:23		1.54	65.33	39.59	25.74	0.988			
					28:30		1.45	10.25	6.07	4.18	0.992			J
	M				28:45		1.52	1,066.00	643.00	423.00	1.001	12378-PeCDF	AN	
					28:54		1.59	37.66	23.12	14.54	1.006			
					29:01		1.47	181.27	107.93	73.34	1.010			

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.
				29:26		1.51	591.48	355.77	235.71	1.024	23478-PeCDF	AN	
				29:34		1.44	133.64	78.78	54.86	1.029			
				29:47		1.39	7.18	4.17	3.01	1.037			J
				29:53		1.52	7.09	4.28	2.81	1.040			J
				30:01		1.59	13.34	8.18	5.16	1.045			
				30:08		1.48	98.34	58.64	39.70	1.049			
				30:24		1.46	16.81	9.98	6.83	1.058			
		DC	WH	30:37		1.40	3.19			1.066			
340-342			17	Peaks			2,806.60						
13C12-PeCDF					1.32-1.78					0.860-1.140			
352-354		DC	NL			Height	0.49	0.26	0.23				
				26:55	RO	0.91	2.20	1.34	1.47	0.937			
				28:44		1.52	492.67	297.20	195.47	1.000	13C12-PeCDF 123	IS2	
						Height	154.44	93.99	60.45				
				29:00	RO	0.76	2.65	1.61	2.13	1.009			
				29:25		1.52	441.79	266.77	175.02	1.024	13C12-PeCDF 234	SUR1	
				30:22	RO	1.80	5.87	4.15	2.30	1.057			
352-354			5	Peaks			945.18						

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

PeCDD					1.32-1.78				0.933-1.021			
356-358	DC	NL			Height	0.54	0.12	0.42				
			28:42	RO	1.02	494.47	196.92	193.91	0.964			
			28:50		1.54	281.99	171.13	110.86	0.969			
			29:02		1.57	92.44	56.45	35.99	0.975			
			29:36	RO	0.32	6.35	3.86	12.01	0.994			J
			29:46		1.59	406.89	249.55	157.34	1.000	12378-PeCDD	AN	
			29:54	RO	0.05	16.45	10.00	186.12	1.004			
			30:15	RO	0.79	23.53	14.30	18.15	1.016			
356-358		7	Peaks			1,322.12						
13C12-PeCDD					1.32-1.78				0.865-1.135			
368-370	DC	NL			Height	0.56	0.44	0.12				
			27:55	RO	5.34	2.30	4.81	0.90	0.938			
	DC	SN	28:07	RO	2.45	0.51			0.945			
			28:32	RO	5.01	1.96	3.86	0.77	0.959			
	DC	SN	28:43	RO	1.12	1.96			0.965			
	DC	SN	28:50	RO	2.15	0.69			0.969			
			29:36	RO	1.27	2.42	4.06	0.95	0.994			
			29:46		1.51	308.98	186.02	122.96	1.000	13C12-PeCDD 123	IS3	
					Height	104.50	62.35	42.15				
	DC	SN	30:02	RO	2.43	0.94			1.009			
	DC	SN	30:24		1.68	3.22			1.021			
368-370		4	Peaks			315.66						

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

HxCDF					1.05-1.43				0.961-1.046			
374-376	DC	NL			Height	0.73	0.52	0.21				
			31:13		1.29	39.15	22.05	17.10	0.967			

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.
				31:21		1.29	342.92	193.02	149.90	0.971			
				31:32		1.21	20.07	10.99	9.08	0.977			
				31:39		1.26	23.41	13.06	10.35	0.980			
				31:49		1.30	334.93	189.42	145.51	0.986			
				32:02		1.22	8.80	4.84	3.96	0.992			J
				32:11		1.28	828.75	465.81	362.94	0.997	123478-HxCDF	AN	
				32:17		1.28	581.37	326.23	255.14	1.000	123678-HxCDF	AN	
				32:26		1.26	217.14	121.13	96.01	1.005			
				32:34		1.18	13.20	7.14	6.06	1.009			
				32:46		1.28	507.97	284.95	223.02	1.015	234678-HxCDF	AN	
				33:31		1.31	400.61	226.81	173.80	1.038	123789-HxCDF	AN	
	DC	WH		33:59		1.32	17.36			1.053			
374-376			12	Peaks			3,318.32						
13C12-HxCDF						0.43-0.59				0.876-1.124			
384-386	DC	NL				Height	0.72	0.29	0.43				
	DC	SN		31:12	RO	0.40	1.60			0.966			
				32:11		0.51	412.95	139.13	273.82	0.997	13C12-HxCDF 478	SUR2	
				32:17		0.51	412.30	139.11	273.19	1.000	13C12-HxCDF 678	IS4	
						Height	139.72	47.94	91.78				
				32:45		0.51	371.46	124.71	246.75	1.014	13C12-HxCDF 234	ALT2	
				33:31		0.50	331.54	110.90	220.64	1.038	13C12-HxCDF 789	ALT1	
	DC	SN		33:49		0.43	1.20			1.047			
384-386			4	Peaks			1,528.25						

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

HxCDD						1.05-1.43				0.956-1.013			
390-392	DC	NL				Height	1.30	0.65	0.65				
				31:43		1.21	2,802.66	1,537.34	1,265.32	0.963			
				32:10		1.22	398.30	218.94	179.36	0.976			
				32:22		1.22	10,660.16	5,849.07	4,811.09	0.982			E
				32:31		1.22	38.15	20.97	17.18	0.987			
				32:53		1.20	313.08	170.91	142.17	0.998	123478-HxCDD	AN	
				32:58		1.22	2,333.33	1,282.20	1,051.13	1.001	123678-HxCDD	AN	
				33:16		1.23	856.39	471.56	384.83	1.010	123789-HxCDD	AN	
390-392			7	Peaks			17,402.07						
13C12-HxCDD						1.05-1.43				0.970-1.030			
402-404	DC	NL				Height	2.77	2.10	0.67				
	DC	WL		31:29	RO	7.06	13.62			0.955			
	DC	WL		31:45	RO	14.14	1.61			0.964			
M				32:52		1.34	288.00	165.00	123.00	0.997	13C12-HxCDD 478	SUR3	
M				32:57		1.36	288.00	166.00	122.00	1.000	13C12-HxCDD 678	IS5	
						Height	89.16	49.49	39.67				
				33:15		1.21	922.00	504.42	417.58	1.009	13C12-HxCDD 789	RS2	
402-404			3	Peaks			1,498.00						

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

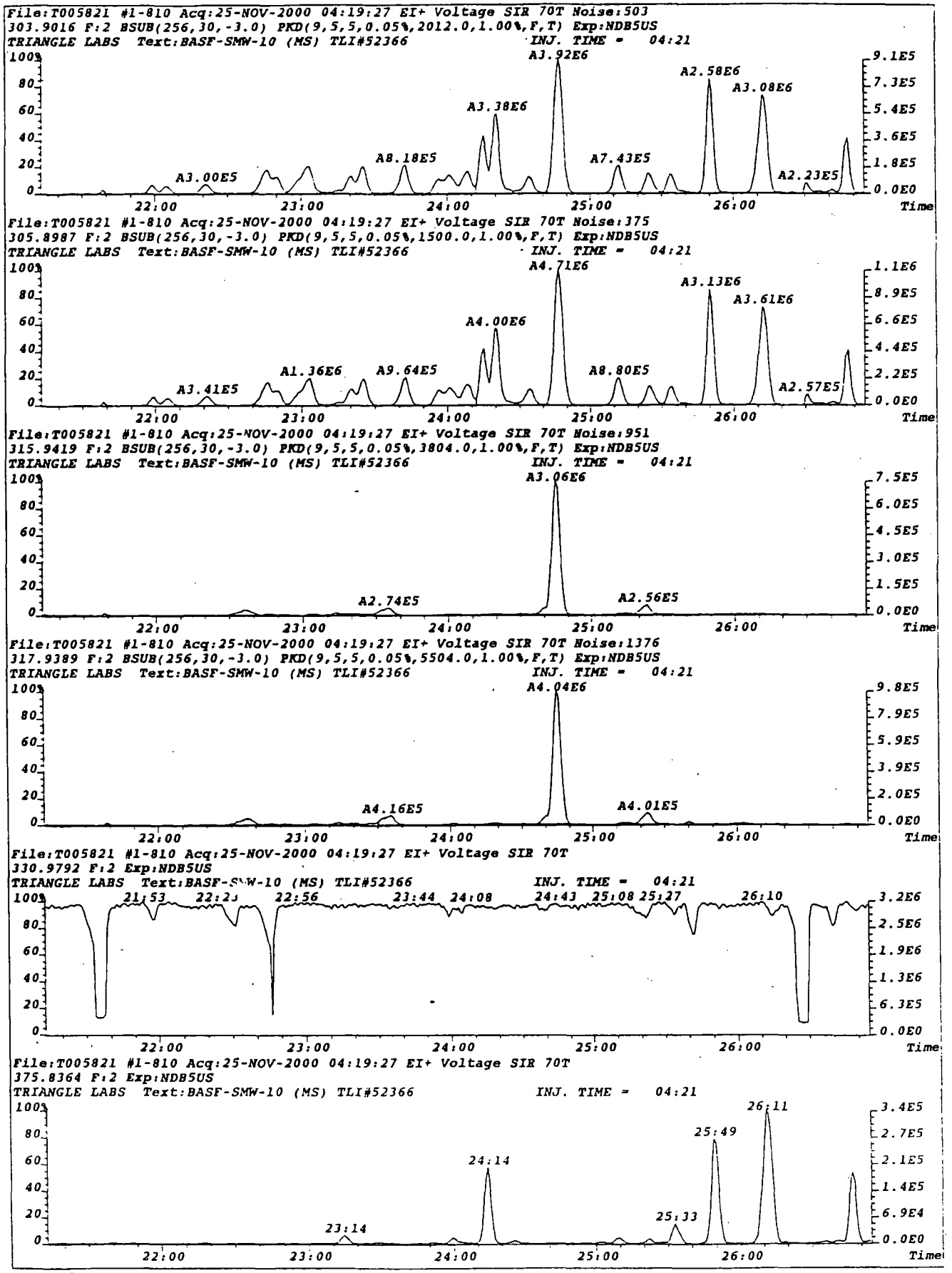
HpCDF						0.88-1.20				0.995-1.048			
408-410	DC	NL				Height	0.84	0.54	0.30				

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.
				35:08		1.07	628.56	325.08	303.48	1.000	1234678-HpCDF	AN	
				35:23		1.02	25.82	13.01	12.81	1.007			
				35:32		1.07	153.31	79.29	74.02	1.011			
				36:10		1.00	9.21	4.61	4.60	1.029			
				36:24	RO	2.08	9.57	9.74	4.69	1.036			
				36:40		1.06	237.01	122.08	114.93	1.044	1234789-HpCDF	AN	
408-410		6	Peaks				1,063.48						
13C12-HpCDF						0.37-0.51				0.943-1.114			
418-420	DC	NL				Height	0.54	0.24	0.30				
				35:08		0.43	232.80	70.20	162.60	1.000	13C12-HpCDF 678	IS6	
						Height	70.87	21.28	49.59				
				36:39		0.43	162.93	48.74	114.19	1.043	13C12-HpCDF 789	SUR4	
418-420		2	Peaks				395.73						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD						0.88-1.20				0.974-1.005			
424-426	DC	NL				Height	2.73	1.51	1.22				
				35:25		1.02	13,306.37	6,728.50	6,577.87	0.980			E
				36:10		1.03	19,577.21	9,912.87	9,664.34	1.000	1234678-HpCDD	AN	E
424-426		2	Peaks				32,883.58						
13C12-HpCDD						0.88-1.20				0.972-1.028			
436-438	DC	NL				Height	3.20	2.16	1.04				
	DC	SN		35:17	RO	2.65	9.30			0.976			
	DC	SN		35:33	RO	3.71	5.26			0.983			
				36:09		1.19	237.11	128.37	108.24	1.000	13C12-HpCDD 678	IS7	
						Height	59.78	30.80	28.98				
				36:18	RO	3.52	40.72	70.35	19.96	1.004			
436-438		2	Peaks				277.83						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF						0.76-1.02				0.899-1.101			
442-444	DC	NL				Height	0.23	0.12	0.11				
	DC	WL		34:49		0.94	4.47			0.876			
	DC	WL		35:26	RO	1.12	0.93			0.891			
	DC	SN		35:49	RO	2.09	0.21			0.901			
				36:10	RO	1.06	1.85	1.04	0.98	0.910			
				37:40		0.98	26.98	13.32	13.66	0.948			
				38:01		0.94	4.78	2.31	2.47	0.956			
				38:49	RO	1.63	0.93	0.80	0.49	0.977			
	DC	SN		39:06	RO	1.11	1.06			0.984			
	DC	SN		39:15	RO	2.09	0.21			0.987			
				39:46		0.95	6.27	3.06	3.21	1.000			
				39:56		0.92	290.09	138.93	151.16	1.005	OCDF		AN
				41:08	RO	1.63	2.25	1.94	1.19	1.035			
	DC	SN		41:22	RO	0.74	0.30			1.041			
	DC	SN		41:26	RO	2.43	0.13			1.042			
				41:50	RO	1.87	1.64	1.63	0.87	1.052			
	DC	SN		42:06	RO	3.80	0.19			1.059			

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		42:13	RO	3.85	0.25			1.062			
	DC	SN		43:04	RO	1.48	0.55			1.083			
	DC	SN		43:11	RO	0.75	0.64			1.086			
	DC	SN		43:23	RO	0.68	0.28			1.091			
	DC	SN		43:26		0.36	0.39			1.093			
	DC	WH		43:57		0.38	0.96			1.106			
	DC	WH		44:08	RO	2.29	0.13			1.110			
442-444			8 Peaks				334.79						
OCDD						0.76-1.02				0.899-1.101			
458-460	DC	NL				Height	0.24	0.11	0.13				
				39:46		0.82	18,153.51	8,205.75	9,947.76	1.000	OCDD	AN	E
458-460			1 Peak				18,153.51						
13C12-OCDD						0.76-1.02				0.996-1.004			
470-472	DC	NL				Height	8.33	5.84	2.49				
M				39:45	RO	1.10	198.45	116.00	105.00	1.000	13C12-OCDD	IS8	
						Height	47.33	23.20	24.13				
470-472			1 Peak				198.45						

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 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,2012.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A3.92E6
A2.58E6
A3.08E6
A3.38E6
A8.18E5
A7.43E5
A3.00E5
A2.23E5
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305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,1500.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A4.71E6
A3.13E6
A3.61E6
A4.00E6
A1.36E6
A9.64E5
A8.80E5
A3.41E5
A2.57E5
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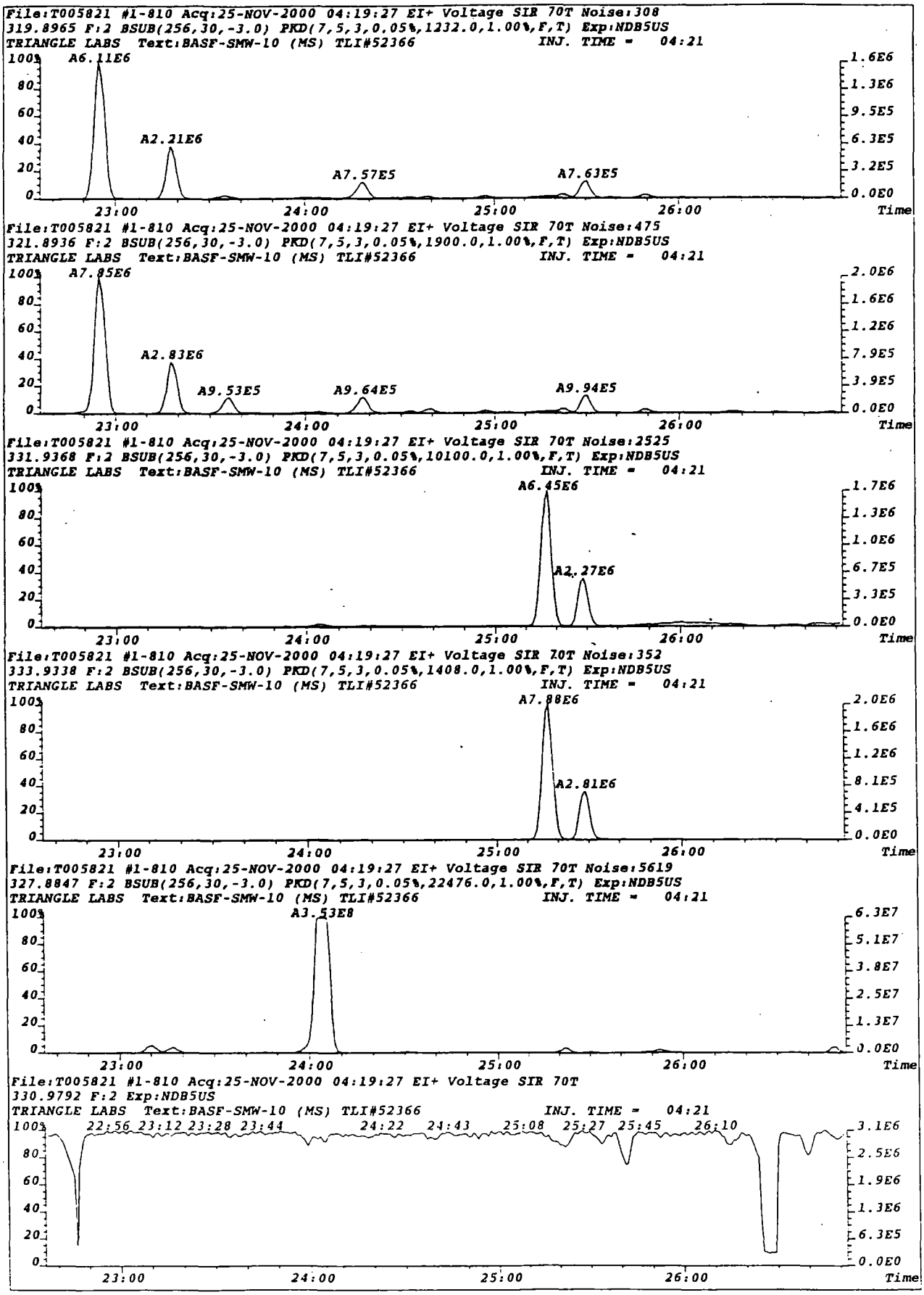
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,3804.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A3.06E6
A2.74E5
A2.56E5
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:1376
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,5504.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A4.04E6
A4.16E5
A4.01E5
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
21:53
22:56
23:44
24:08
24:43
25:08
25:27
26:10
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
26:11
25:49
24:14
25:33
23:14
22:00
23:00
24:00
25:00
26:00
Time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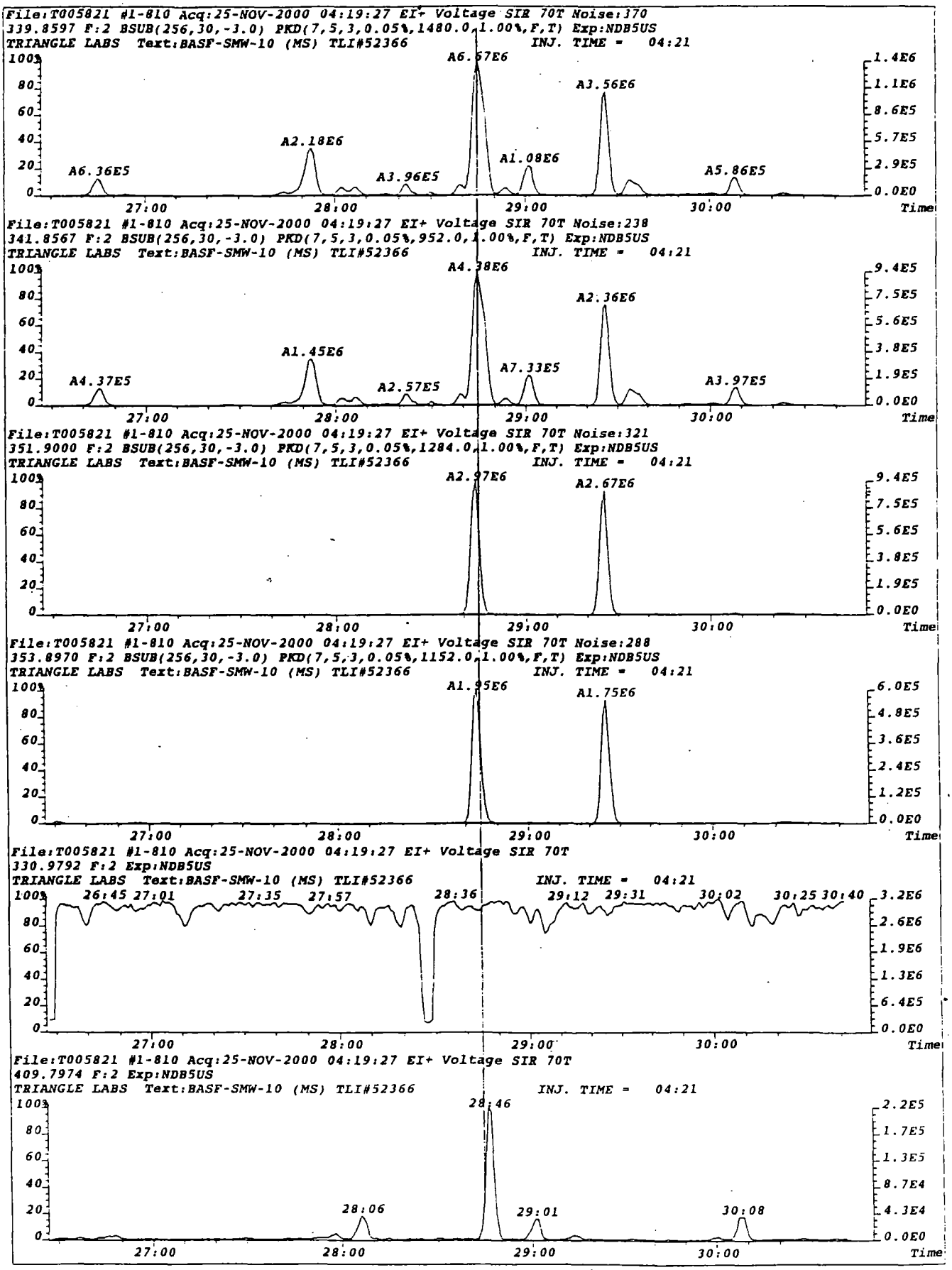
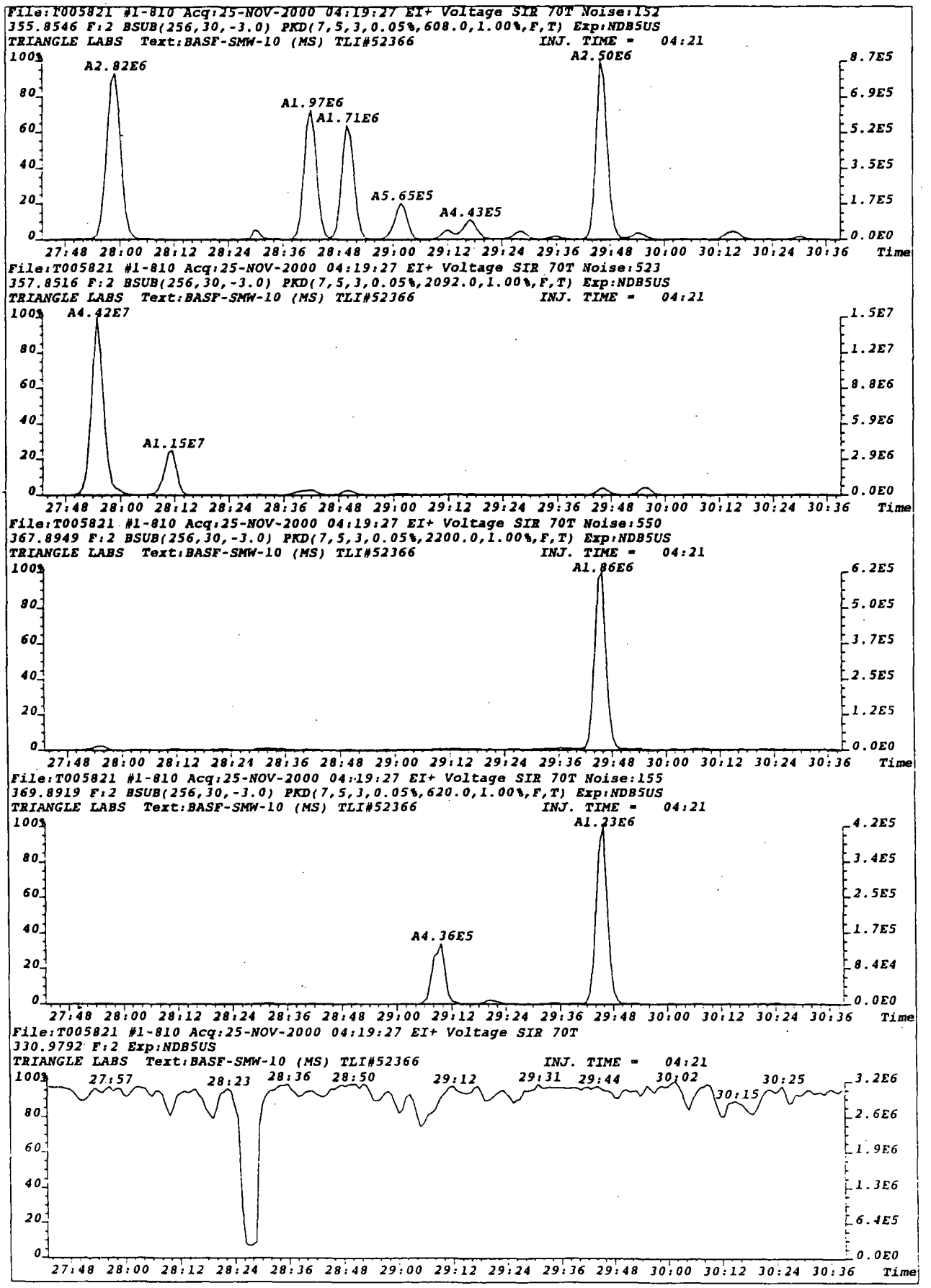
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A6.11E6
A2.21E6
A7.57E5
A7.63E5
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:475
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1900.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A7.85E6
A2.83E6
A9.53E5
A9.64E5
A9.94E5
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:2525
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,10100.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A6.45E6
A2.27E6
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:352
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1408.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A7.88E6
A2.81E6
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:5619
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,22476.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A3.53E8
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
22:56 23:12 23:28 23:44 24:22 24:43 25:08 25:27 25:45 26:10
23:00 24:00 25:00 26:00 Time


File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:370
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1480.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A6.67E6
A3.56E6
A2.18E6
A1.08E6
A6.36E5
A3.96E5
A5.86E5
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:238
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,952.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A4.38E6
A2.36E6
A1.45E6
A7.33E5
A4.37E5
A2.57E5
A3.97E5
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:321
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1284.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A2.97E6
A2.67E6
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:288
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1152.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A1.95E6
A1.75E6
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
26:45 27:01 27:35 27:57 28:36 29:12 29:31 30:02 30:25 30:40
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
28:46
28:06
29:01
30:08
27:00
28:00
29:00
30:00
Time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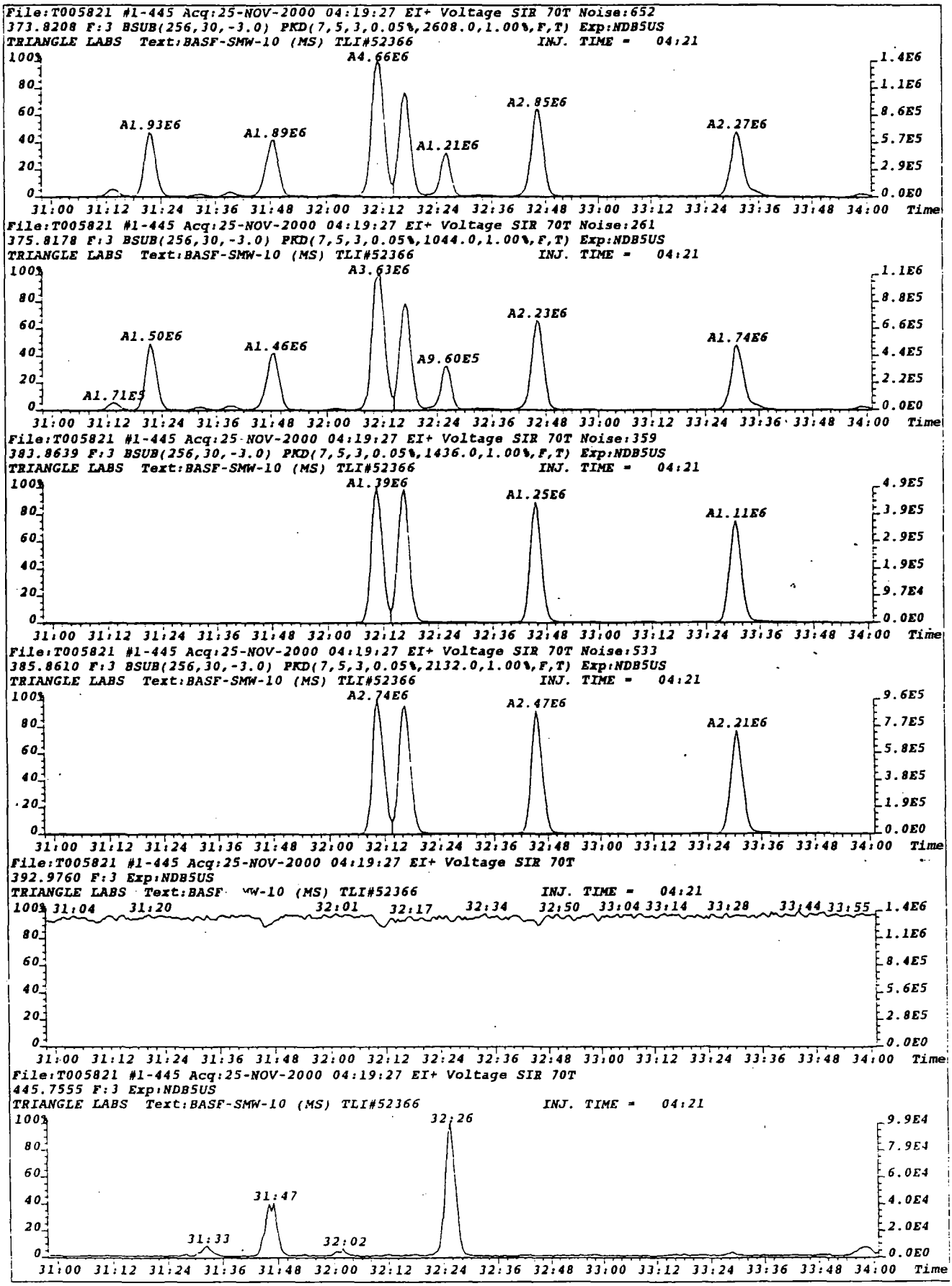
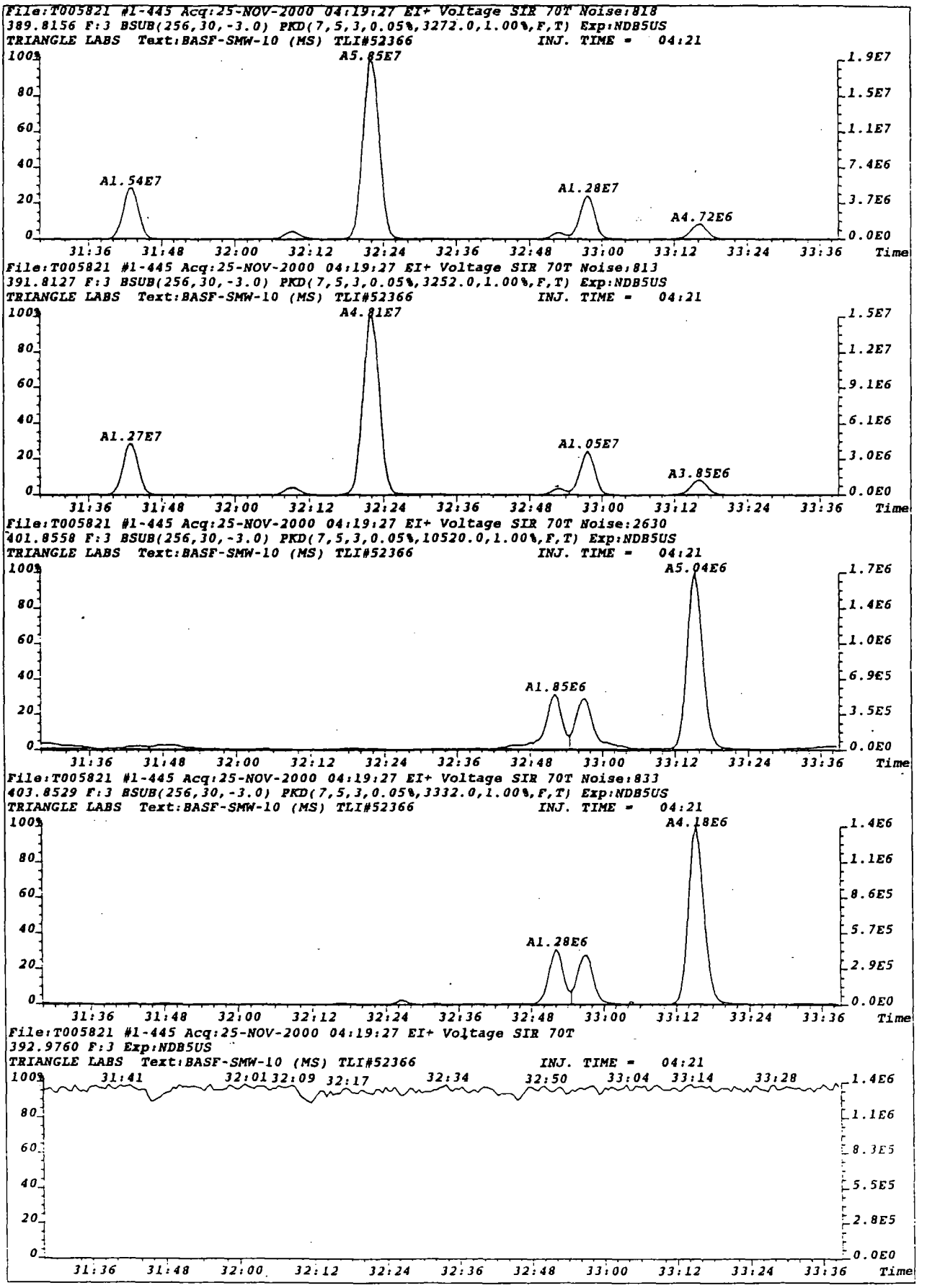
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,608.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A2.82E6
A1.97E6
A1.71E6
A5.65E5
A4.43E5
A2.50E6
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:523
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2092.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A4.42E7
A1.15E7
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:550
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A1.86E6
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:155
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,620.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A1.23E6
A4.36E5
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
27:57
28:23
28:36
28:50
29:12
29:31
29:44
30:02
30:15
30:25
Time


File:T005821 #1-445 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:652
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2608.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A1.93E6
A1.89E6
A4.66E6
A1.21E6
A2.85E6
A2.27E6
File:T005821 #1-445 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:261
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1044.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A1.71E5
A1.50E6
A1.46E6
A3.63E6
A9.60E5
A2.23E6
A1.74E6
File:T005821 #1-445 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:359
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1436.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A1.39E6
A1.25E6
A1.11E6
File:T005821 #1-445 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:533
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2132.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A2.74E6
A2.47E6
A2.21E6
File:T005821 #1-445 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
File:T005821 #1-445 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
31:33
31:47
32:02
32:26
Time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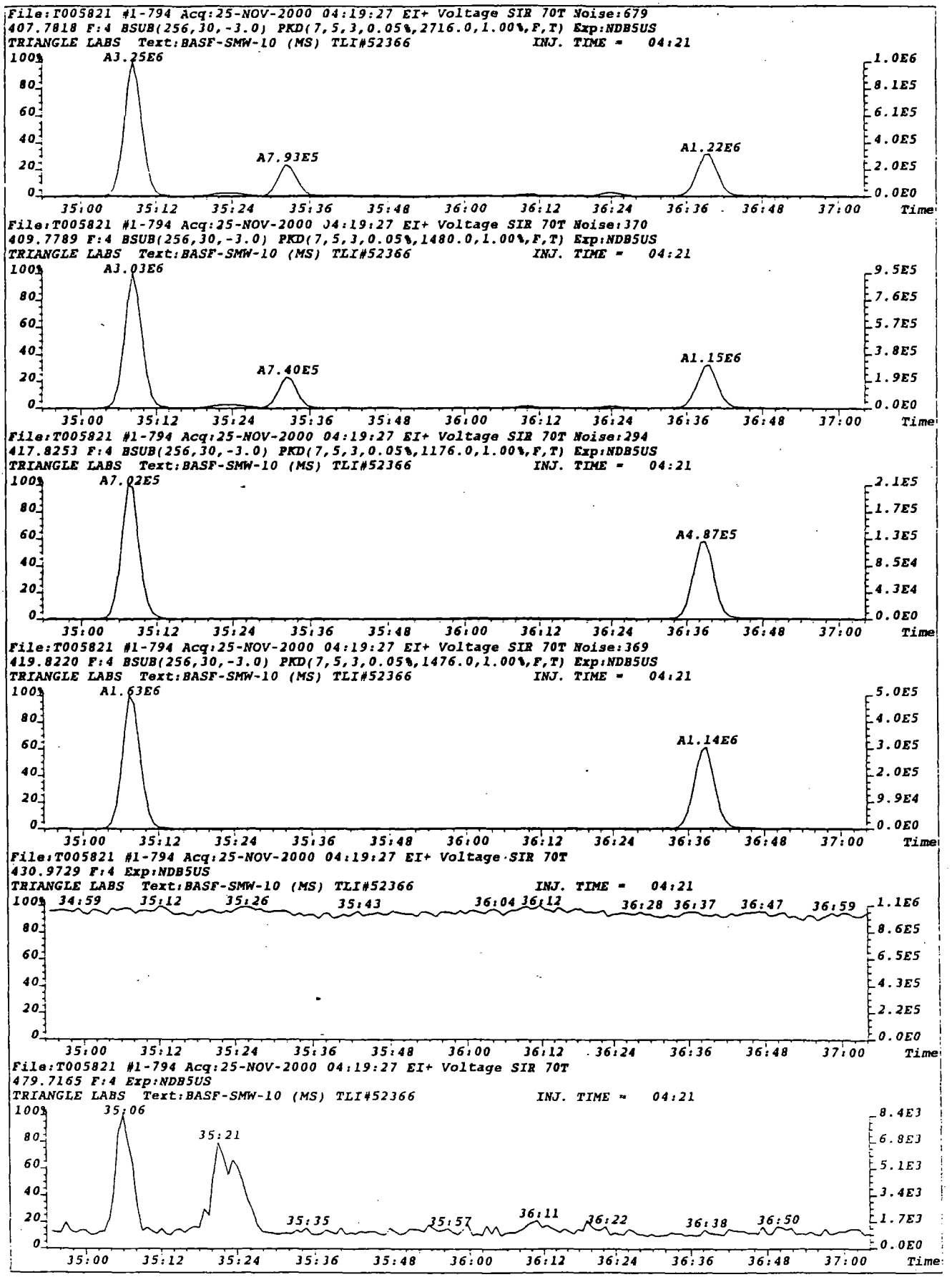
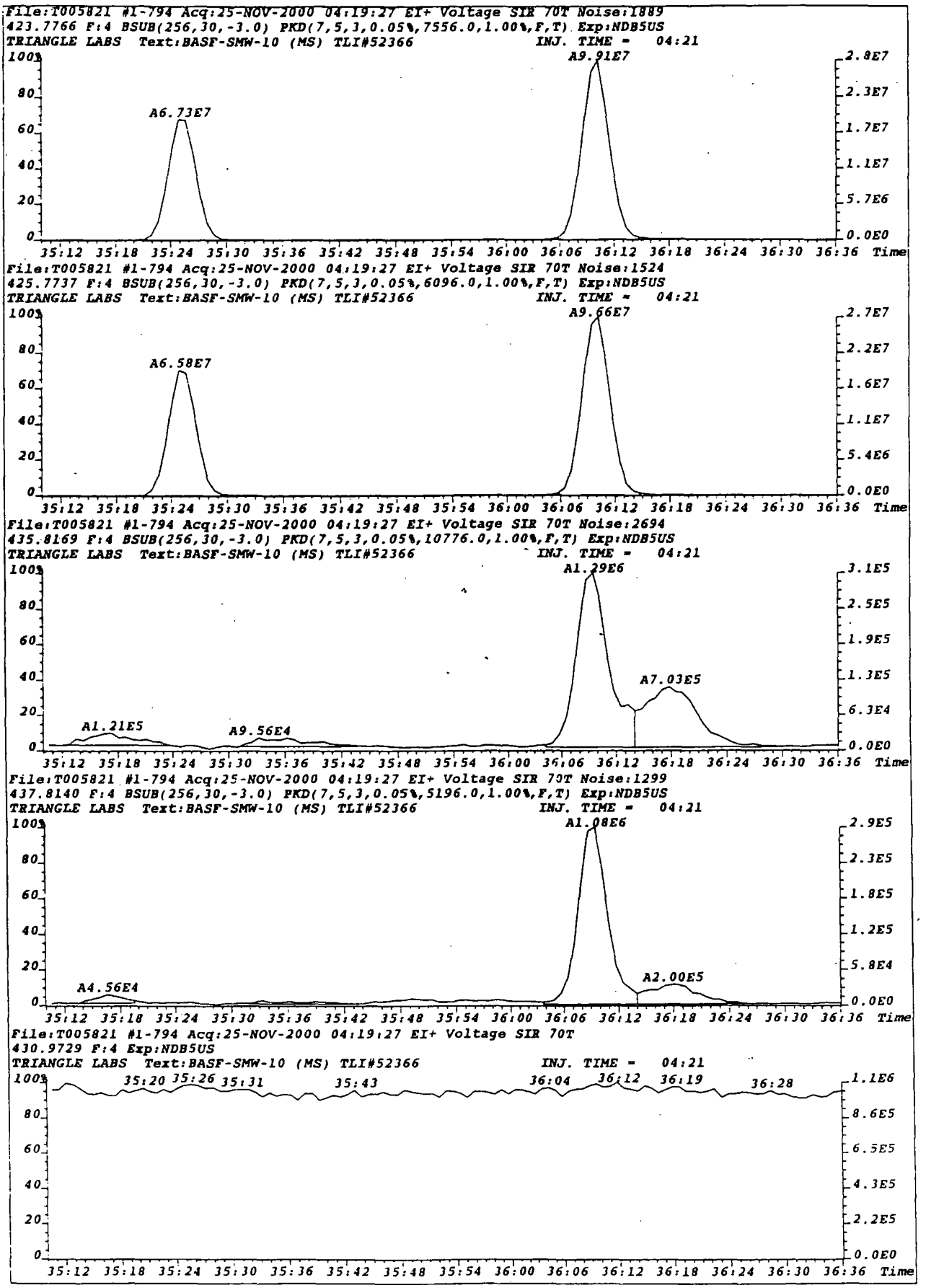
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,3272.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A5.85E7
A1.54E7
A1.28E7
A4.72E6
File:T005821 #1-445 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:813
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,3252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A4.81E7
A1.27E7
A1.05E7
A3.85E6
File:T005821 #1-445 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:2630
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,10520.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A5.04E6
A1.85E6
File:T005821 #1-445 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:833
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,3332.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A4.18E6
A1.28E6
File:T005821 #1-445 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
Time


File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:679
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2716.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A3.25E6
A7.93E5
A1.22E6
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:370
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1480.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A3.03E6
A7.40E5
A1.15E6
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:294
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1176.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A7.02E5
A4.87E5
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:369
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1476.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A1.63E6
A1.14E6
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
35:06
35:21
Time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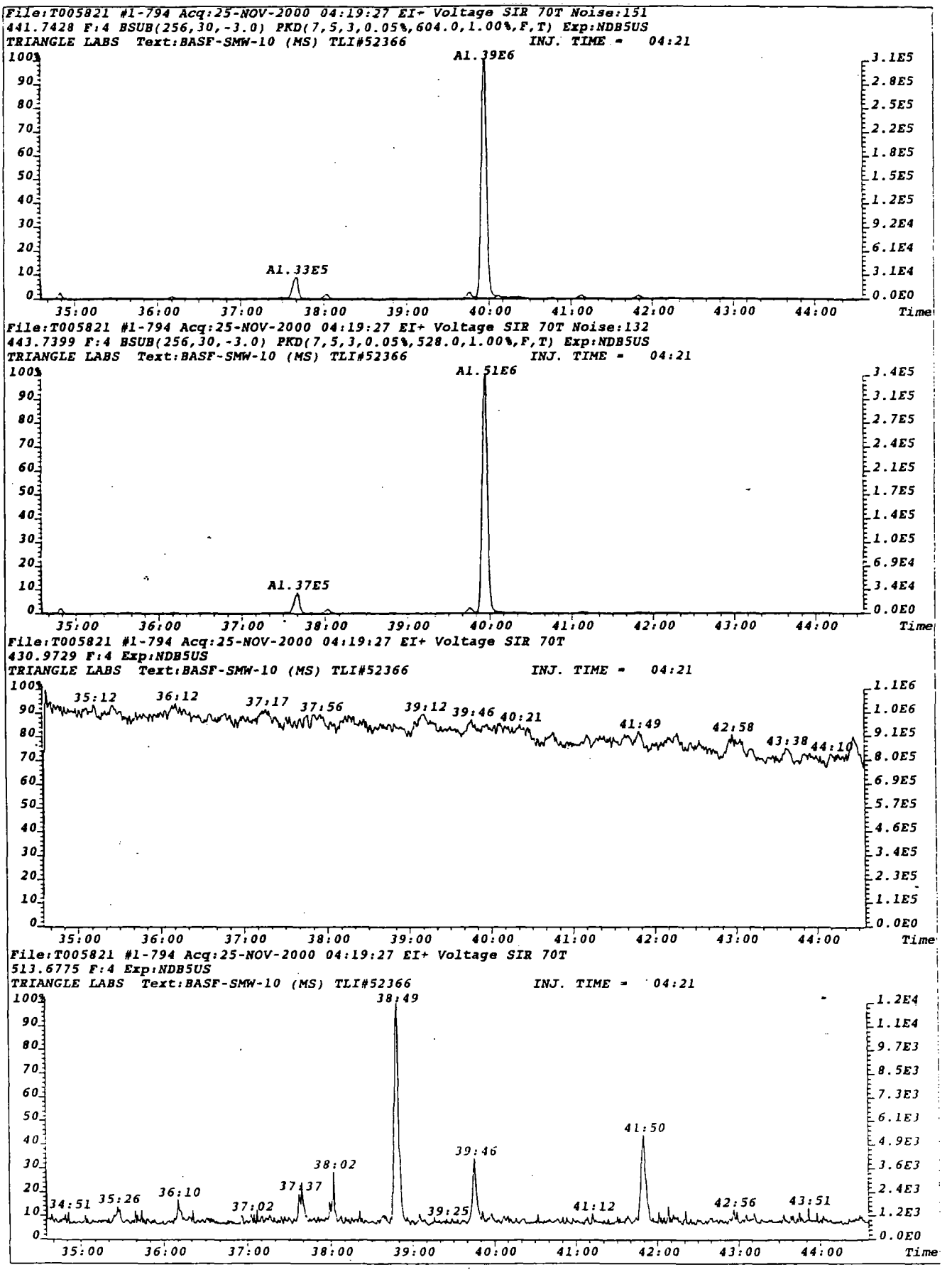
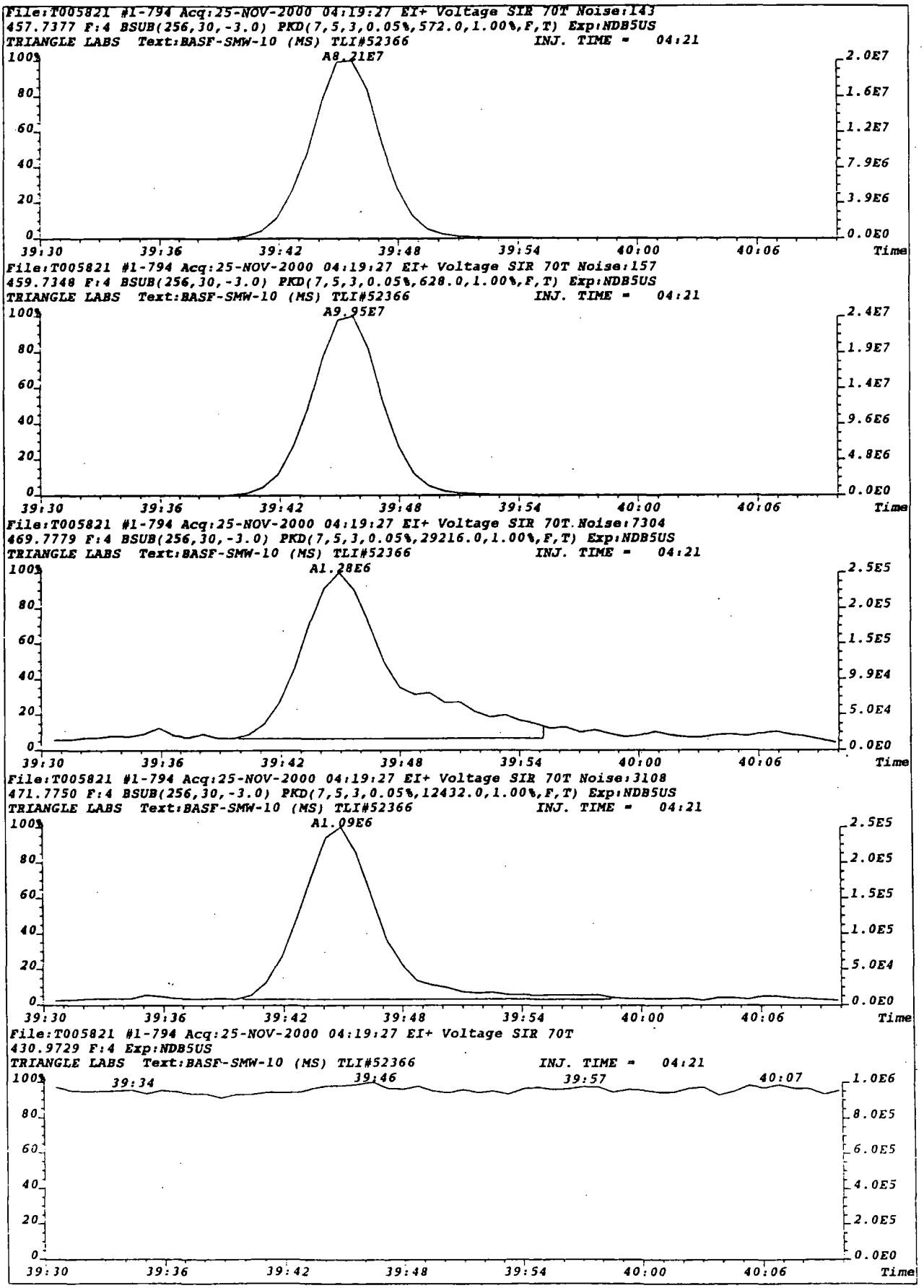
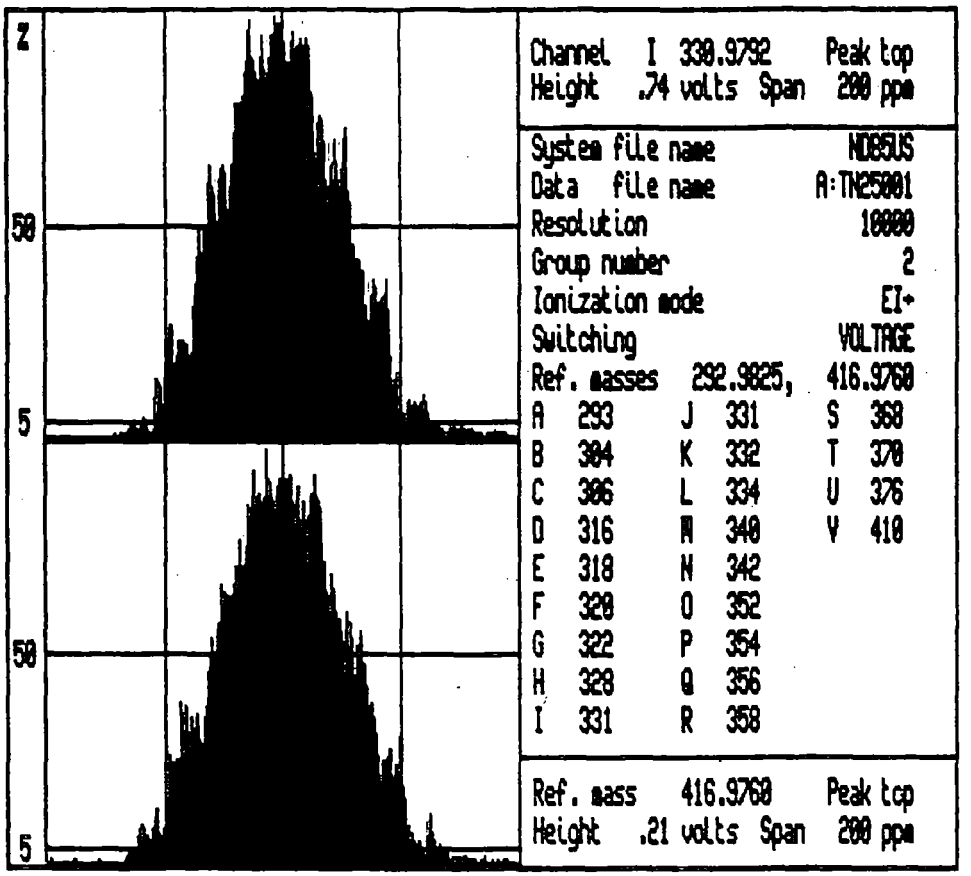
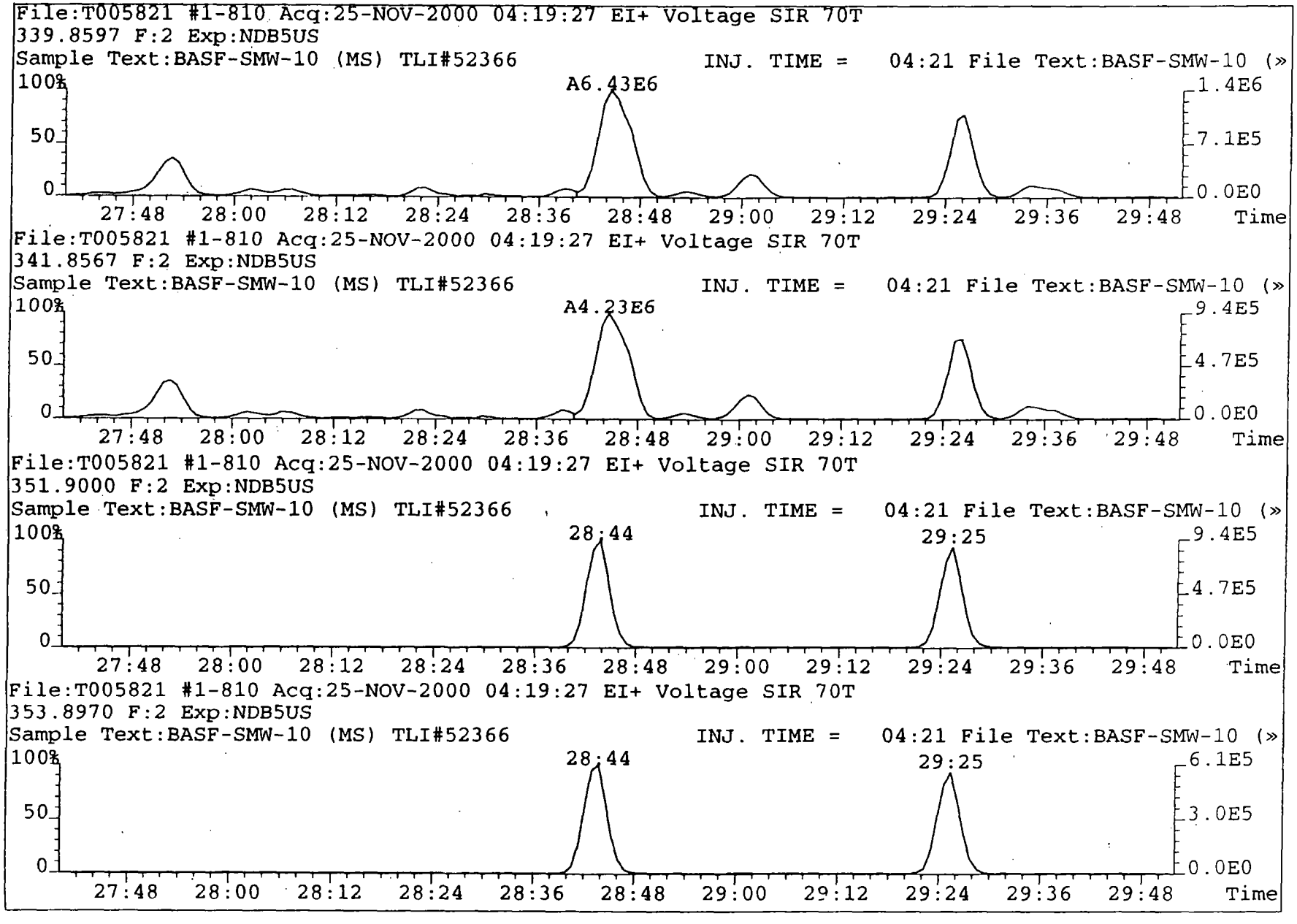
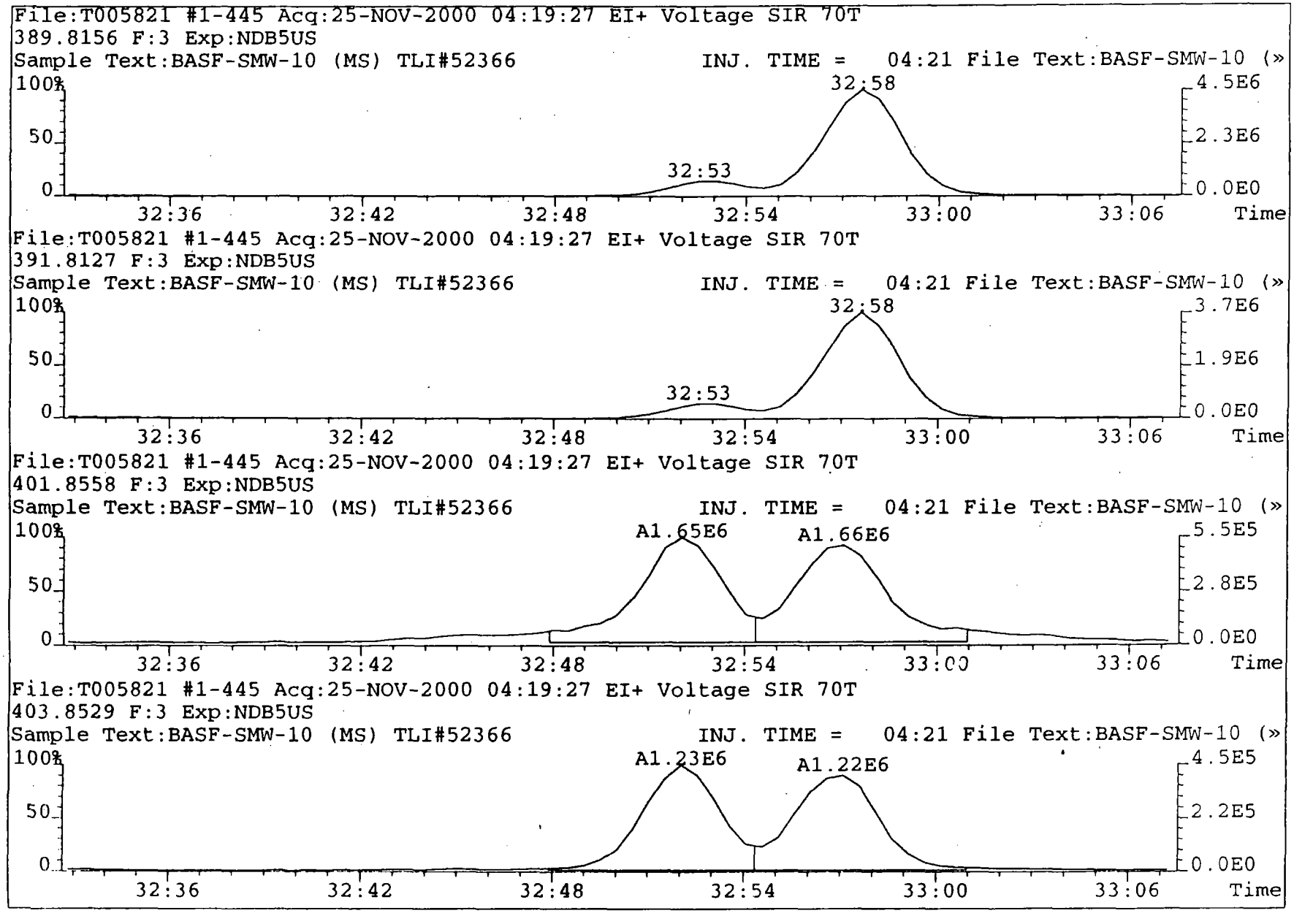
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,7556.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A6.73E7
A9.91E7
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:1524
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,6096.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A6.58E7
A9.66E7
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:2694
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,10776.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A1.29E6
A7.03E5
A1.21E5
A9.56E4
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:1299
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,5196.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
A1.08E6
A2.00E5
A4.56E4
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21
35:20 35:26 35:31 35:43 36:04 36:12 36:19 36:28
Time

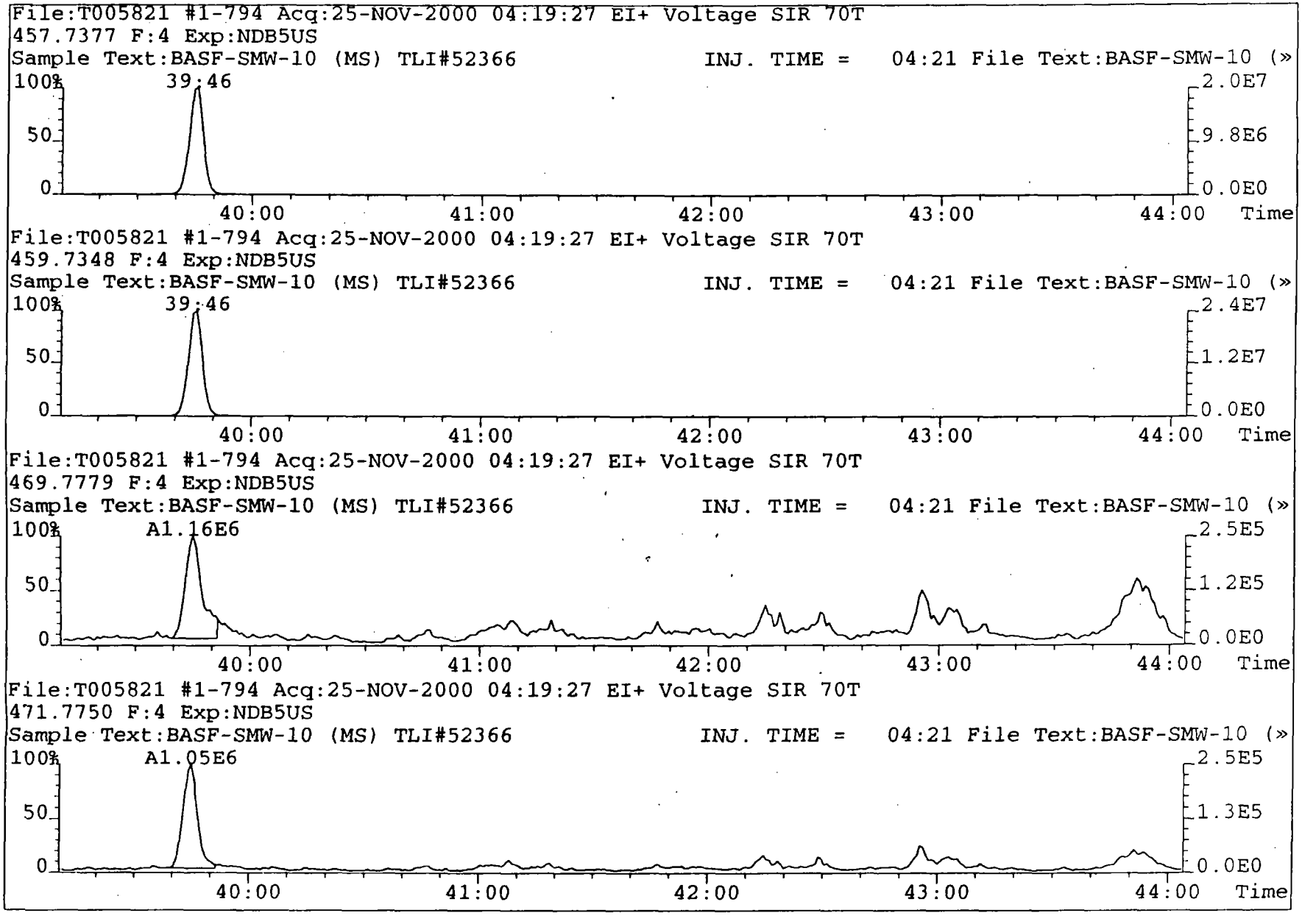

File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:151
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,604.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A1.39E6
A1.33E5
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:132
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,528.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A1.51E6
A1.37E5
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
35:12
36:12
37:17
37:56
39:12
39:46
40:21
41:49
42:58
43:38
44:10
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
38:49
41:50
39:46
38:02
37:37
34:51
35:26
36:10
37:02
39:25
41:12
42:56
43:51
Time

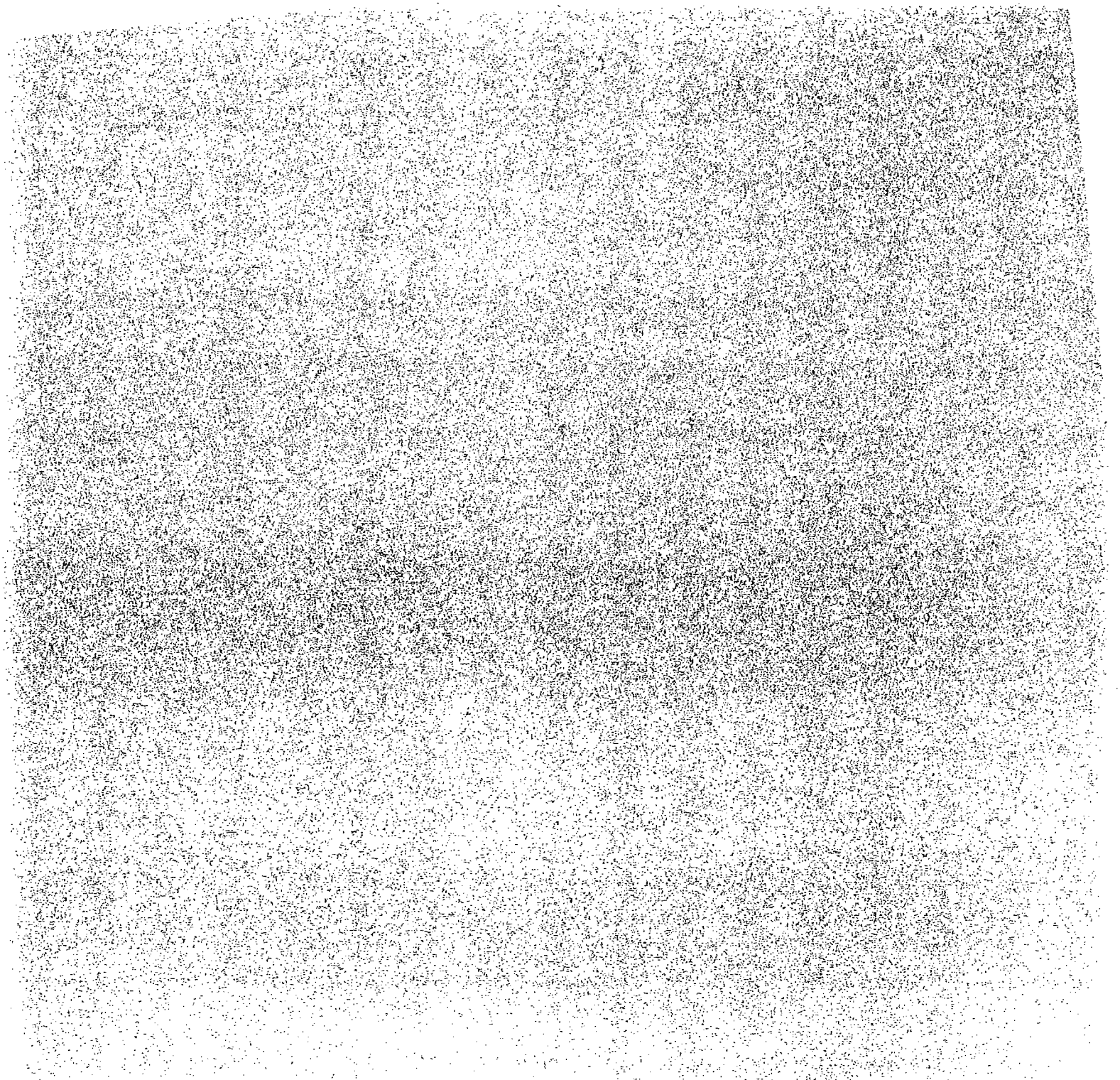

File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:143
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,572.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A8.21E7
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:157
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,628.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A9.95E7
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:7304
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,29216.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A1.28E6
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T Noise:3108
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,12432.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
A1.09E6
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21
39:34
39:46
39:57
40:07
Time


Z
50
5
50
5
Channel I 330.9792 Peak top
Height .74 volts Span 200 ppm
System file name NOESUS
Data file name A:TN25001
Resolution 10000
Group number 2
Ionization mode EI+
Switching VOLTAGE
Ref. masses 292.9825, 416.9760
A 293 J 331 S 368
B 304 K 332 T 370
C 306 L 334 U 376
D 316 M 340 V 410
E 318 N 342
F 320 O 352
G 322 P 354
H 328 Q 356
I 331 R 358
Ref. mass 416.9760 Peak top
Height .21 volts Span 200 ppm


File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
339.8597 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21 File Text:BASF-SMW-10 (»
100%
50
0
A6.43E6
1.4E6
7.1E5
0.0E0
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 Time
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
341.8567 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21 File Text:BASF-SMW-10 (»
100%
50
0
A4.23E6
9.4E5
4.7E5
0.0E0
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 Time
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
351.9000 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21 File Text:BASF-SMW-10 (»
100%
50
0
28:44
29:25
9.4E5
4.7E5
0.0E0
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 Time
File:T005821 #1-810 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
353.8970 F:2 Exp:NDB5US
Sample Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21 File Text:BASF-SMW-10 (»
100%
50
0
28:44
29:25
6.1E5
3.0E5
0.0E0
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 Time


File:T005821 #1-445 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
389.8156 F:3 Exp:NDB5US
Sample Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21 File Text:BASF-SMW-10 (»
100%
50
0
32:58
32:53
4.5E6
2.3E6
0.0E0
32:36
32:42
32:48
32:54
33:00
33:06
Time
File:T005821 #1-445 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
391.8127 F:3 Exp:NDB5US
Sample Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21 File Text:BASF-SMW-10 (»
100%
50
0
32:58
32:53
3.7E6
1.9E6
0.0E0
32:36
32:42
32:48
32:54
33:00
33:06
Time
File:T005821 #1-445 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
401.8558 F:3 Exp:NDB5US
Sample Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21 File Text:BASF-SMW-10 (»
100%
50
0
A1.65E6
A1.66E6
5.5E5
2.8E5
0.0E0
32:36
32:42
32:48
32:54
33:00
33:06
Time
File:T005821 #1-445 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
403.8529 F:3 Exp:NDB5US
Sample Text:BASF-SMW-10 (MS) TLI#52366
INJ. TIME = 04:21 File Text:BASF-SMW-10 (»
100%
50
0
A1.23E6
A1.22E6
4.5E5
2.2E5
0.0E0
32:36
32:42
32:48
32:54
33:00
33:06
Time


File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
457.7377 F:4 Exp:NDB5US
Sample Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21 File Text:BASF-SMW-10 (»
100% 39.46
50
0
2.0E7
9.8E6
0.0E0
40:00 41:00 42:00 43:00 44:00 Time
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
459.7348 F:4 Exp:NDB5US
Sample Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21 File Text:BASF-SMW-10 (»
100% 39.46
50
0
2.4E7
1.2E7
0.0E0
40:00 41:00 42:00 43:00 44:00 Time
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
469.7779 F:4 Exp:NDB5US
Sample Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21 File Text:BASF-SMW-10 (»
100% A1.16E6
50
0
2.5E5
1.2E5
0.0E0
40:00 41:00 42:00 43:00 44:00 Time
File:T005821 #1-794 Acq:25-NOV-2000 04:19:27 EI+ Voltage SIR 70T
471.7750 F:4 Exp:NDB5US
Sample Text:BASF-SMW-10 (MS) TLI#52366 INJ. TIME = 04:21 File Text:BASF-SMW-10 (»
100% A1.05E6
50
0
2.5E5
1.3E5
0.0E0
40:00 41:00 42:00 43:00 44:00 Time



TriMatrix, Inc.

TLI Project: **52366** — Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **BASF-MS/MSD (MSD)** — Analysis File: **T005822**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	**11/17/2000**	Spike File:	**SPMIT32S**
TLI ID:	**274-99-5MSD**	Date Extracted:	**11/21/2000**	ICal:	**TF57140**
		Date Analyzed:	**11/25/2000**	ConCal:	**T005815**
Sample Size:	**1.080 L**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005817**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	704			0.78	25:29	___
1,2,3,7,8-PeCDD	2250			1.56	29:45	___
1,2,3,4,7,8-HxCDD	2080			1.22	32:52	___
1,2,3,6,7,8-HxCDD	6870			1.22	32:56	___
1,2,3,7,8,9-HxCDD	4040			1.22	33:15	___
1,2,3,4,6,7,8-HpCDD	93660			1.04	36:09	E__
1,2,3,4,6,7,8,9-OCDD	347840			0.83	39:43	E__
2,3,7,8-TCDF	2210			0.86	24:45	___
1,2,3,7,8-PeCDF	4220			1.51	28:44	___
2,3,4,7,8-PeCDF	2390			1.49	29:25	___
1,2,3,4,7,8-HxCDF	3570			1.29	32:10	___
1,2,3,6,7,8-HxCDF	2330			1.30	32:16	___
2,3,4,6,7,8-HxCDF	2370			1.30	32:45	___
1,2,3,7,8,9-HxCDF	2250			1.28	33:30	___
1,2,3,4,6,7,8-HpCDF	3850			1.09	35:07	___
1,2,3,4,7,8,9-HpCDF	1880			1.08	36:37	___
1,2,3,4,6,7,8,9-OCDF	4760			0.91	39:55	___

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	597	32.3	40%-130%	0.76	24:44	V___
$^{13}C_{12}$-2,3,7,8-TCDD	516	27.8	40%-130%	0.82	25:27	V___
$^{13}C_{12}$-1,2,3,7,8-PeCDF	441	23.8	40%-130%	1.53	28:42	V___
$^{13}C_{12}$-1,2,3,7,8-PeCDD	494	26.7	40%-130%	1.49	29:44	V___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	467	25.2	40%-130%	0.51	32:15	V___
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	508	27.4	40%-130%	1.33	32:56	V___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	391	21.1	25%-130%	0.43	35:06	V___
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	413	22.3	25%-130%	1.15	36:08	V___
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	465	12.6	25%-130%	1.01	39:43	V___

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Printed: 18:37 11/29/2000

TLI Project: 52366 Method 8290 PCDD/PCDF Analysis (b)
Client Sample: BASF-MS/MSD (MSD) Analysis File: T005822

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	407	22.0	40%-130%	1.51	29:24	V___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	483	26.1	40%-130%	0.51	32:09	V___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	507	27.4	40%-130%	1.37	32:51	V___
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	349	18.8	25%-130%	0.42	36:37	V___

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	156	84.3	40%-130%	25:29	___

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	554	29.9	40%-130%	0.51	33:29	V___
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	474	25.6	40%-130%	0.51	32:44	V___

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.81	25:15	___
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.21	33:14	___

Data Reviewer: _____ 11/29/2000

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Printed: 18:37 11/29/2000

Initial ....Date...

Data Review By: JCH 11/29/00

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 T005822B.dbf
11/29/2000 Matched GC Peaks / Ratio / Ret. Time

Compound/ M_I....	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				0.860-1.077			
304-306	DC	NL				Height	0.97	0.65	0.32				
				21:37		0.85	16.79	7.70	9.09	0.874			
				21:57		0.85	118.03	54.30	63.73	0.887			
				22:20		0.83	59.85	27.13	32.72	0.903			
				22:49		0.86	155.67	71.87	83.80	0.923			
				23:01		0.89	245.87	115.56	130.31	0.931			
				23:24		0.87	252.77	117.66	135.11	0.946			
				23:41		0.85	171.65	79.04	92.61	0.958			
				24:00	RO	0.90	227.94	99.16	110.63	0.970			
				24:07		0.87	132.66	61.65	71.01	0.975			
				24:19		0.84	531.57	242.85	288.72	0.983	1278-TCDF		AN
				24:33		0.88	107.42	50.31	57.11	0.993			
				24:45		0.86	838.17	386.94	451.23	1.001	2378-TCDF		AN
				25:10		0.85	165.31	75.91	89.40	1.013			
				25:23		0.83	114.38	51.98	62.40	1.026			
				25:33		0.85	172.68	79.59	93.09	1.033			
				25:49		0.83	876.35	397.29	479.06	1.044			
				26:10		0.84	1,037.49	472.48	565.01	1.058			
				26:29		0.87	56.76	26.41	30.35	1.071			
	DC	WH		26:46		0.86	427.10			1.082			
304-306			18	Peaks			5,281.36						
13C12-TCDF						0.65-0.89				0.959-1.041			
316-318	DC	NL				Height	2.02	0.95	1.07				
	DC	WL		21:10		0.82	67.54			0.856			
	DC	WL		21:37		0.71	9.94			0.874			
	DC	WL		22:35	RO	0.61	56.02			0.913			
	DC	WL		22:51	RO	0.53	8.05			0.924			
	DC	WL		23:03	RO	0.63	11.45			0.932			
	DC	WL		23:12	RO	0.63	23.75			0.938			
	DC	WL		23:33	RO	0.59	85.56			0.952			
				24:44		0.76	685.30	295.54	389.76	1.000	13C12-2378-TCDF		ISO
						Height	164.90	71.02	93.88				
	DC	SN		25:12		0.66	10.90			1.019			
				25:22	RO	0.62	54.41	23.67	38.17	1.026			
316-318			2	Peaks			739.71						

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

TCDD						0.65-0.89				0.890-1.045			
320-322	DC	NL				Height	0.51	0.23	0.28				
				22:53		0.78	551.95	241.50	310.45	0.899	1368-TCDD		AN
	DC	SN		23:06		0.66	1.76			0.908			

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.
				23:17		0.78	261.90	114.95	146.95	0.915	1379-TCDD	AN	
				23:32	RO	0.16	39.26	17.08	106.81	0.925			
				24:17		0.74	167.76	71.43	96.33	0.954			
				24:31		0.81	24.96	11.15	13.81	0.963			
				24:37		0.65	22.67	8.97	13.70	0.967			
				24:55		0.79	19.73	8.69	11.04	0.979			
				25:15		0.83	24.44	11.12	13.32	0.992			
				25:21		0.67	25.51	10.20	15.31	0.996			
				25:29		0.78	168.62	74.09	94.53	1.001	2378-TCDD	AN	
				25:37		0.83	4.91	2.22	2.69	1.007			
				25:48		0.77	31.55	13.71	17.84	1.014			
				26:01		0.70	4.21	1.74	2.47	1.022			
				26:28	RO	1.37	2.30	1.78	1.30	1.040			
	DC	WH	26:47	RO		0.62	14.71			1.052			
320-322			14 Peaks				1,349.77						
37Cl-TCDD									0.921-1.079				
328	DC	NL				Height	3.51	3.51					
	DC	WL	22:59				23.99			0.903			
	DC	WL	23:09				435.35			0.910			
	DC	WL	23:16				480.12			0.914			
			24:04				39,693.00	39,693.00		0.946			
			25:20				113.43	113.43		0.995			
			25:29				124.36	124.36		1.001	37Cl-TCDD	CLS	
			25:51				494.13	494.13		1.016			
			26:47				1,295.47	1,295.47		1.052			
328			5 Peaks				41,720.39						
13C12-TCDD						0.65-0.89			0.921-1.079				
332-334	DC	NL				Height	2.03	1.76	0.27				
			24:03	RO		1.48	20.18	16.86	11.40	0.945			
			25:15			0.81	1,657.16	742.92	914.24	0.992	13C12-1234-TCDD	RS1	
			25:27			0.82	485.32	219.19	266.13	1.000	13C12-2378-TCDD	IS1	
						Height	120.68	54.19	66.49				
	DC	SN	26:03	RO		91.86	1.27			1.024			
			26:51	RO		13.76	2.25	17.48	1.27	1.055			
332-334			4 Peaks				2,164.91						
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF						1.32-1.78			0.923-1.064				
340-342	DC	NL				Height	0.58	0.32	0.26				
			26:44			1.45	154.17	91.19	62.98	0.931			
			27:25			1.51	8.02	4.83	3.19	0.955			J
			27:51			1.49	384.80	230.52	154.28	0.970			
			28:01			1.51	52.93	31.84	21.09	0.976			
			28:15			1.52	13.73	8.29	5.44	0.984			
			28:21			1.62	60.40	37.32	23.08	0.988			
			28:29	RO		0.97	7.53	4.58	4.74	0.992			J
M			28:44			1.51	983.00	592.00	391.00	1.001	12378-PeCDF	AN	
			28:59			1.50	143.64	86.15	57.49	1.010			
			29:25			1.49	565.89	338.57	227.32	1.025	23478-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
					29:33		1.53	132.32	80.11	52.21	1.030			
					29:46		1.76	5.11	3.26	1.85	1.037			J
					29:51	RO	1.16	9.77	4.46	3.83	1.040			J
					29:59	RO	1.97	13.54	10.44	5.31	1.045			
					30:06		1.57	157.08	95.87	61.21	1.049			
					30:22		1.41	17.22	10.08	7.14	1.058			
	DC		WH		30:36		1.41	4.62			1.066			
340-342			16	Peaks				2,709.15						
13C12-PeCDF							1.32-1.78				0.860-1.140			
352-354	DC	NL					Height	0.58	0.30	0.28				
					26:29	RO	0.62	2.98	1.81	2.93	0.923			
	DC		SN		26:53	RO	1.02	4.13			0.937			
	DC		SN		27:14	RO	0.85	0.90			0.949			
	DC		SN		27:51	RO	0.85	1.55			0.970			
					28:42		1.53	473.53	286.14	187.39	1.000	13C12-PeCDF 123	IS2	
							Height	152.71	92.65	60.06				
					29:24		1.51	432.14	259.84	172.30	1.024	13C12-PeCDF 234	SUR1	
					30:21	RO	1.90	5.38	4.01	2.11	1.057			
352-354			4	Peaks				914.03						
---------- Above: PeCDF / PeCDD Follows ----------														
PeCDD							1.32-1.78				0.933-1.021			
356-358	DC	NL					Height	0.37	0.13	0.24				
					28:41		1.34	105.51	60.40	45.11	0.965			
					28:48		1.53	267.84	162.02	105.82	0.969			
					29:00		1.49	55.30	33.05	22.25	0.975			
					29:45		1.56	386.42	235.21	151.21	1.001	12378-PeCDD	AN	
					29:53	RO	0.14	15.46	9.40	66.29	1.005			
356-358			5	Peaks				830.53						
13C12-PeCDD							1.32-1.78				0.865-1.135			
368-370	DC	NL					Height	0.48	0.38	0.10				
					27:53	RO	4.08	1.63	2.61	0.64	0.938			
					28:21	RO	4.84	0.79	1.50	0.31	0.953			
					28:30	RO	3.92	2.96	4.55	1.16	0.959			
					28:39		1.71	1.87	1.18	0.69	0.964			
					29:44		1.49	301.70	180.47	121.23	1.000	13C12-PeCDD 123	IS3	
							Height	100.74	60.34	40.40				
					30:20	RO	1.31	2.32	1.19	0.91	1.020			
368-370			6	Peaks				311.27						
---------- Above: PeCDD / HxCDF Follows ----------														
HxCDF							1.05-1.43				0.961-1.046			
374-376	DC	NL					Height	0.55	0.30	0.25				
					31:12		1.29	43.97	24.75	19.22	0.967			
					31:20		1.27	337.28	188.90	148.38	0.972			
					31:31		1.32	8.96	5.10	3.86	0.977			J
					31:38		1.30	22.23	12.56	9.67	0.981			
					31:47		1.28	276.43	155.01	121.42	0.986			

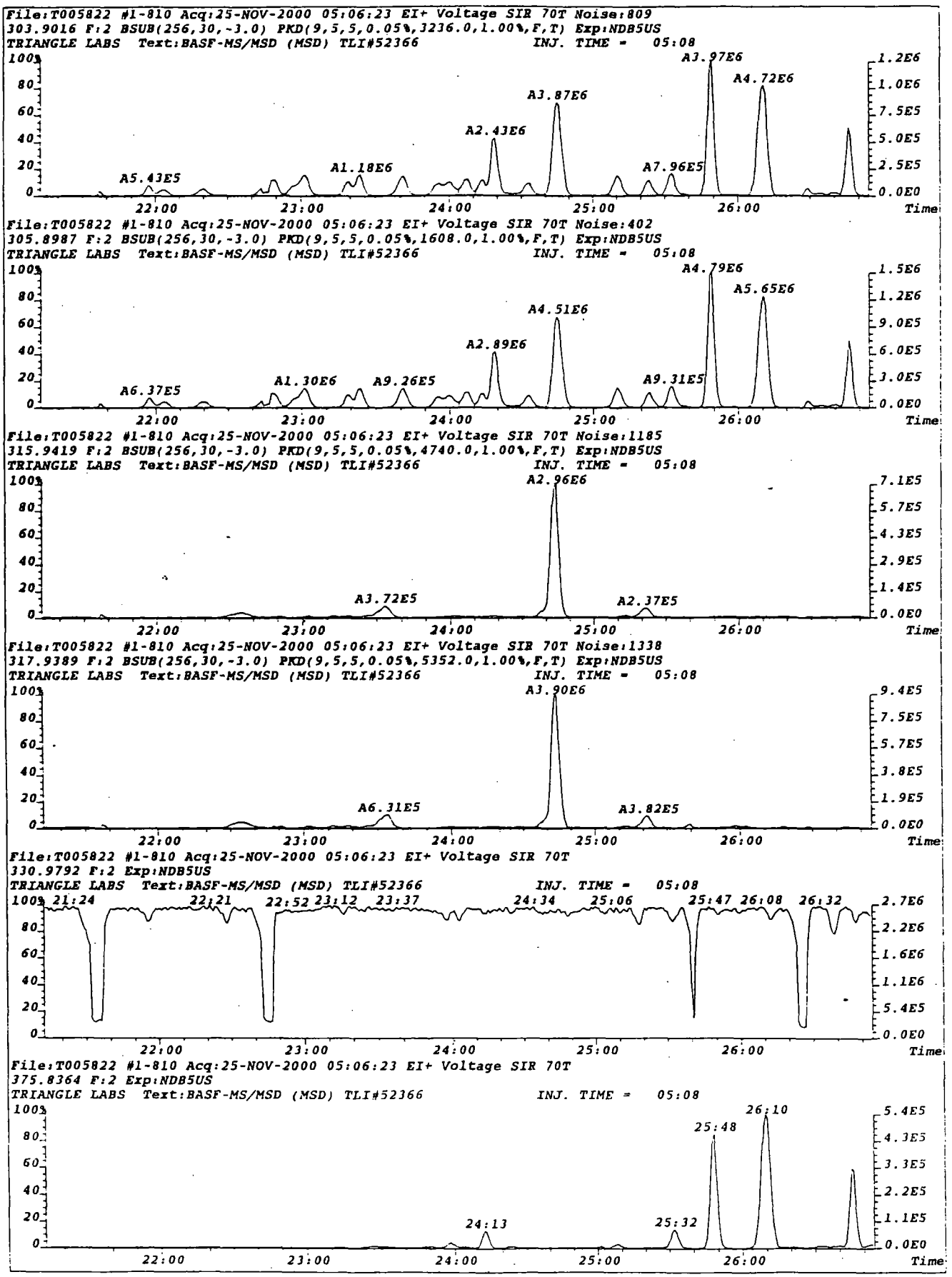
Compound/ M_Z....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				32:00		1.29	8.49	4.78	3.71	0.992			J
				32:10		1.29	781.15	440.51	340.64	0.997	123478-HxCDF	AN	
				32:16		1.30	534.06	302.24	231.82	1.001	123678-HxCDF	AN	
				32:25		1.30	235.58	133.22	102.36	1.005			
				32:33		1.22	12.00	6.60	5.40	1.009			
				32:45		1.30	490.64	277.03	213.61	1.016	234678-HxCDF	AN	
	DC	SN	33:12	RO	1.33	0.94				1.029			
			33:30		1.28	381.36	214.26	167.10	1.039	123789-HxCDF	AN		
	DC	WH	33:58		1.30	20.34			1.053				
374-376		12	Peaks			3,132.15							
13C12-HxCDF				0.43-0.59					0.876-1.124				
384-386	DC	NL		Height		0.81	0.36	0.45					
	DC	SN	31:11	RO	0.40	1.33			0.967				
			32:09		0.51	401.65	135.18	266.47	0.997	13C12-HxCDF 478		SUR2	
			32:15		0.51	394.39	133.96	260.43	1.000	13C12-HxCDF 678		IS4	
				Height		129.28	44.28	85.00					
			32:44		0.51	364.64	123.14	241.50	1.015	13C12-HxCDF 234		ALT2	
	DC	SN	32:58	RO	1.25	1.27			1.022				
			33:29		0.51	313.06	105.99	207.07	1.038	13C12-HxCDF 789		ALT1	
384-386		4	Peaks			1,473.74							
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD				1.05-1.43					0.956-1.013				
390-392	DC	NL		Height		0.96	0.43	0.53					
			31:42		1.22	1,871.68	1,028.74	842.94	0.963				
			32:08		1.22	197.83	108.58	89.25	0.976				
			32:21		1.21	4,363.90	2,389.41	1,974.49	0.982				E
			32:30		1.15	28.95	15.51	13.44	0.987				
			32:52		1.22	306.01	168.24	137.77	0.998	123478-HxCDD		AN	
			32:56		1.22	1,009.75	554.58	455.17	1.000	123678-HxCDD		AN	
			33:15		1.22	600.08	330.26	269.82	1.010	123789-HxCDD		AN	
390-392		7	Peaks			8,378.20							
13C12-HxCDD				1.05-1.43					0.970-1.030				
402-404	DC	NL		Height		2.25	1.69	0.56					
	DC	WL	31:30	RO	9.40	10.71			0.956				
	DC	WL	31:48	RO	10.67	7.10			0.966				
M			32:51		1.37	277.00	160.00	117.00	0.997	13C12-HxCDD 478		SUR3	
M			32:56		1.33	268.00	153.00	115.00	1.000	13C12-HxCDD 678		IS5	
				Height		86.97	47.45	39.52					
			33:14		1.21	1,076.48	590.08	486.40	1.009	13C12-HxCDD 789		RS2	
			33:34	RO	5.28	4.12	9.72	1.84	1.019				
402-404		4	Peaks			1,625.60							
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF				0.88-1.20					0.995-1.048				
408-410	DC	NL		Height		0.56	0.36	0.20					
			35:07		1.09	576.50	300.68	275.82	1.000	1234678-HpCDF		AN	
			35:22		1.03	23.82	12.10	11.72	1.008				

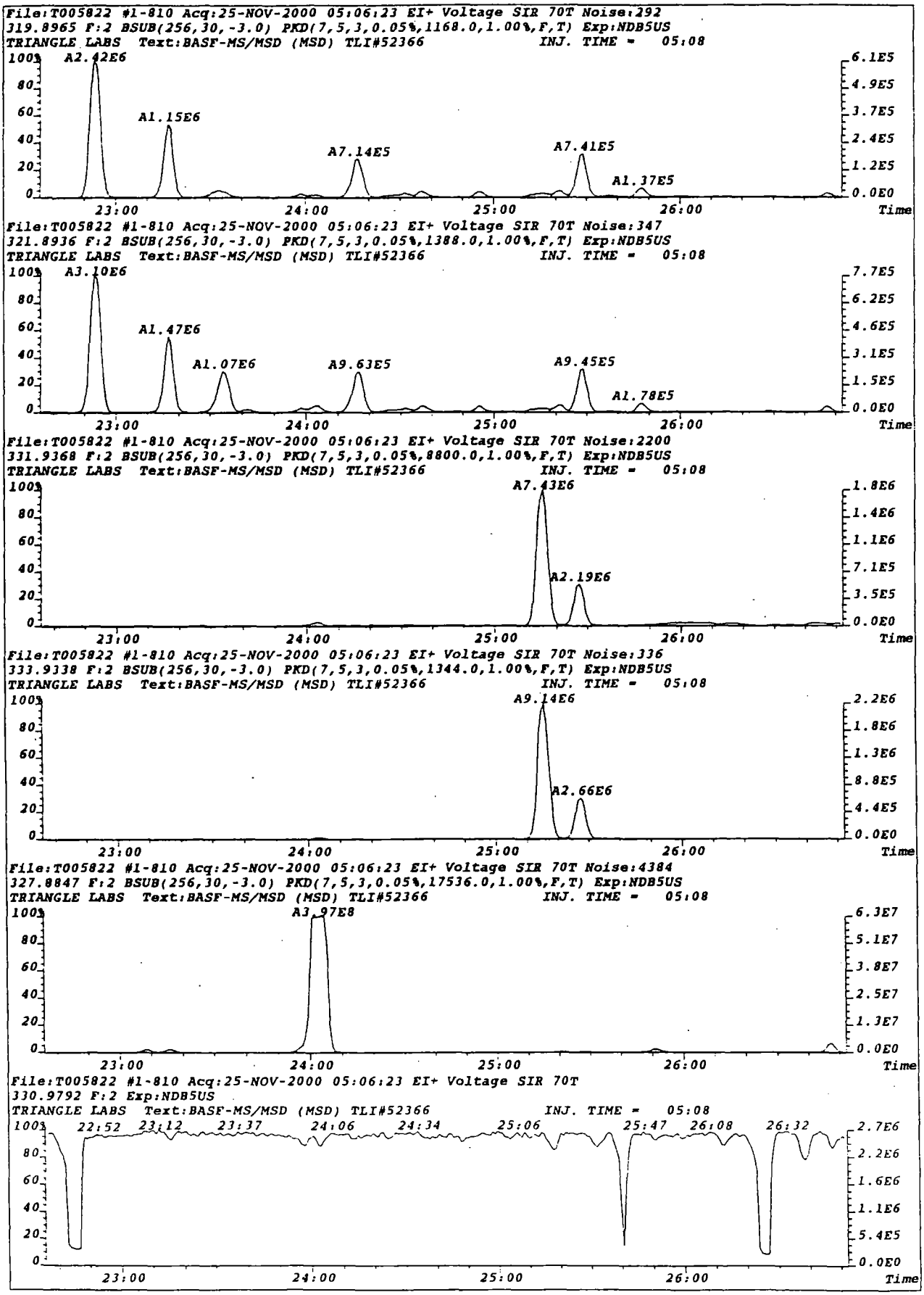
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				35:31		1.08	132.19	68.53	63.66	1.012			
				36:08		1.12	3.96	2.09	1.87	1.029			J
				36:22	RO	2.18	1.69	1.31	0.83	1.036			J
				36:37		1.08	217.24	112.80	104.44	1.043	1234789-HpCDF	AN	
408-410			6	Peaks			955.40						
13C12-HpCDF				0.37-0.51					0.943-1.114				
418-420	DC	NL		Height			0.51	0.22	0.29				
				35:06		0.43	220.71	65.89	154.82	1.000	13C12-HpCDF 678	IS6	
				Height			69.01	20.76	48.25				
				36:37		0.42	152.92	45.36	107.56	1.043	13C12-HpCDF 789	SUR4	
418-420			2	Peaks			373.63						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD				0.88-1.20					0.974-1.005				
424-426	DC	NL		Height			2.29	1.12	1.17				
				35:23		1.04	7,467.30	3,804.33	3,662.97	0.979			E
				36:09		1.04	8,906.58	4,532.86	4,373.72	1.000	1234678-HpCDD	AN	E
424-426			2	Peaks			16,373.88						
13C12-HpCDD				0.88-1.20					0.972-1.028				
436-438	DC	NL		Height			3.68	2.47	1.21				
				36:08		1.15	205.96	110.23	95.73	1.000	13C12-HpCDD 678	IS7	
				Height			53.77	28.23	25.54				
				36:17	RO	3.42	38.33	64.28	18.79	1.004			
436-438			2	Peaks			244.29						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF				0.76-1.02					0.899-1.101				
442-444	DC	NL		Height			0.20	0.10	0.10				
	DC	WL	35:37	RO	0.38		0.19			0.897			
			36:09	RO	1.34		0.83	0.59	0.44	0.910			
	DC	SN	37:07	RO	0.55		0.23			0.935			
	DC	SN	37:11		0.88		0.30			0.936			
	DC	SN	37:18	RO	1.44		0.17			0.939			
	DC	SN	37:27	RO	0.55		0.34			0.943			
			37:39	RO	0.71		1.85	0.87	1.23	0.948			
	DC	SN	38:02		0.92		0.98			0.958			
	DC	SN	38:49		0.85		0.96			0.977			
	DC	SN	38:55		0.76		0.37			0.980			
	DC	SN	39:04	RO	2.23		0.81			0.984			
			39:43		0.93		6.17	2.98	3.19	1.000			
			39:55		0.91		266.71	127.29	139.42	1.005	OCDF	AN	
	DC	SN	40:15	RO	2.43		0.83			1.013			
	DC	SN	40:37	RO	1.33		0.28			1.023			
	DC	SN	40:44	RO	1.06		0.91			1.026			
			41:07	RO	2.21		0.79	0.93	0.42	1.035			
	DC	SN	41:18	RO	1.92		0.25			1.040			
			41:48	RO	1.58		2.38	1.99	1.26	1.052			
	DC	SN	43:01	RO	1.41		0.42			1.083			

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			6 Peaks				278.73						
OCDD						0.76-1.02				0.899-1.101			
458-460		DC	NL			Height	0.24	0.10	0.14				
				39:43		0.83	16,198.08	7,325.28	8,872.80	1.000	OCDD	AN	E
458-460			1 Peak				16,198.08						
13C12-OCDD						0.76-1.02				0.996-1.004			
470-472		DC	NL			Height	7.67	5.43	2.24				
	M			39:43		1.01	188.70	94.80	93.90	1.000	13C12-OCDD	IS8	
						Height	42.68	20.39	22.29				
470-472			1 Peak				188.70						

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:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:809
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,3236.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A5.43E5
A1.18E6
A2.43E6
A3.87E6
A7.96E5
A3.97E6
A4.72E6
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:402
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,1608.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A6.37E5
A1.30E6
A9.26E5
A2.89E6
A4.51E6
A9.31E5
A4.79E6
A5.65E6
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:1185
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,4740.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A3.72E5
A2.96E6
A2.37E5
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:1338
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,5352.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A6.31E5
A3.90E6
A3.82E5
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
21:24
22:21
22:52
23:12
23:37
24:34
25:06
25:47
26:08
26:32
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
24:13
25:32
25:48
26:10
22:00
23:00
24:00
25:00
26:00
Time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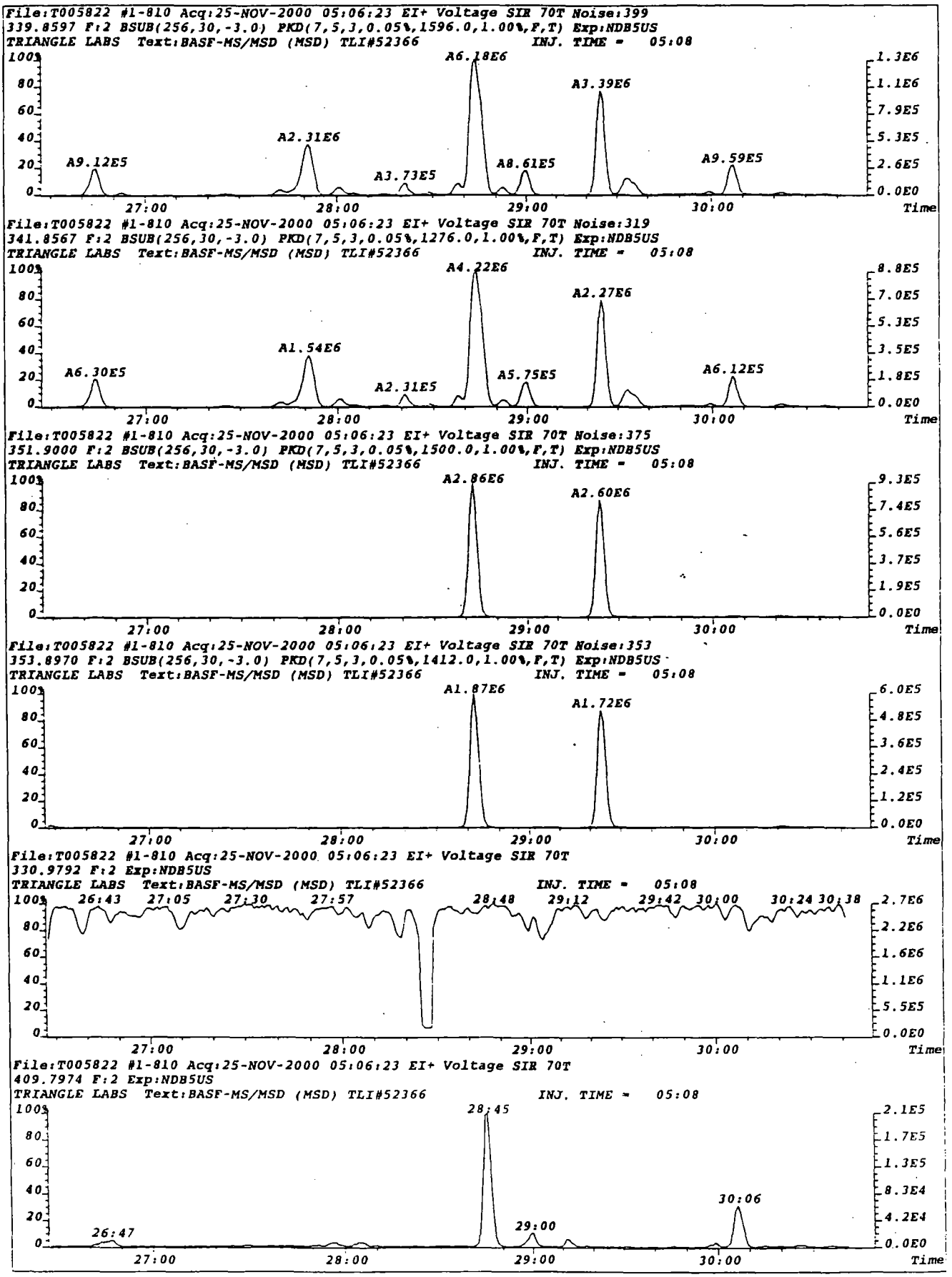
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1168.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A2.42E6
A1.15E6
A7.14E5
A7.41E5
A1.37E5
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:347
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A3.10E6
A1.47E6
A1.07E6
A9.63E5
A9.45E5
A1.78E5
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:2200
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,8800.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A7.43E6
A2.19E6
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:336
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1344.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A9.14E6
A2.66E6
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:4384
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,17536.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A3.97E8
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
22:52 23:12 23:37 24:06 24:34 25:06 25:47 26:08 26:32
23:00 24:00 25:00 26:00 Time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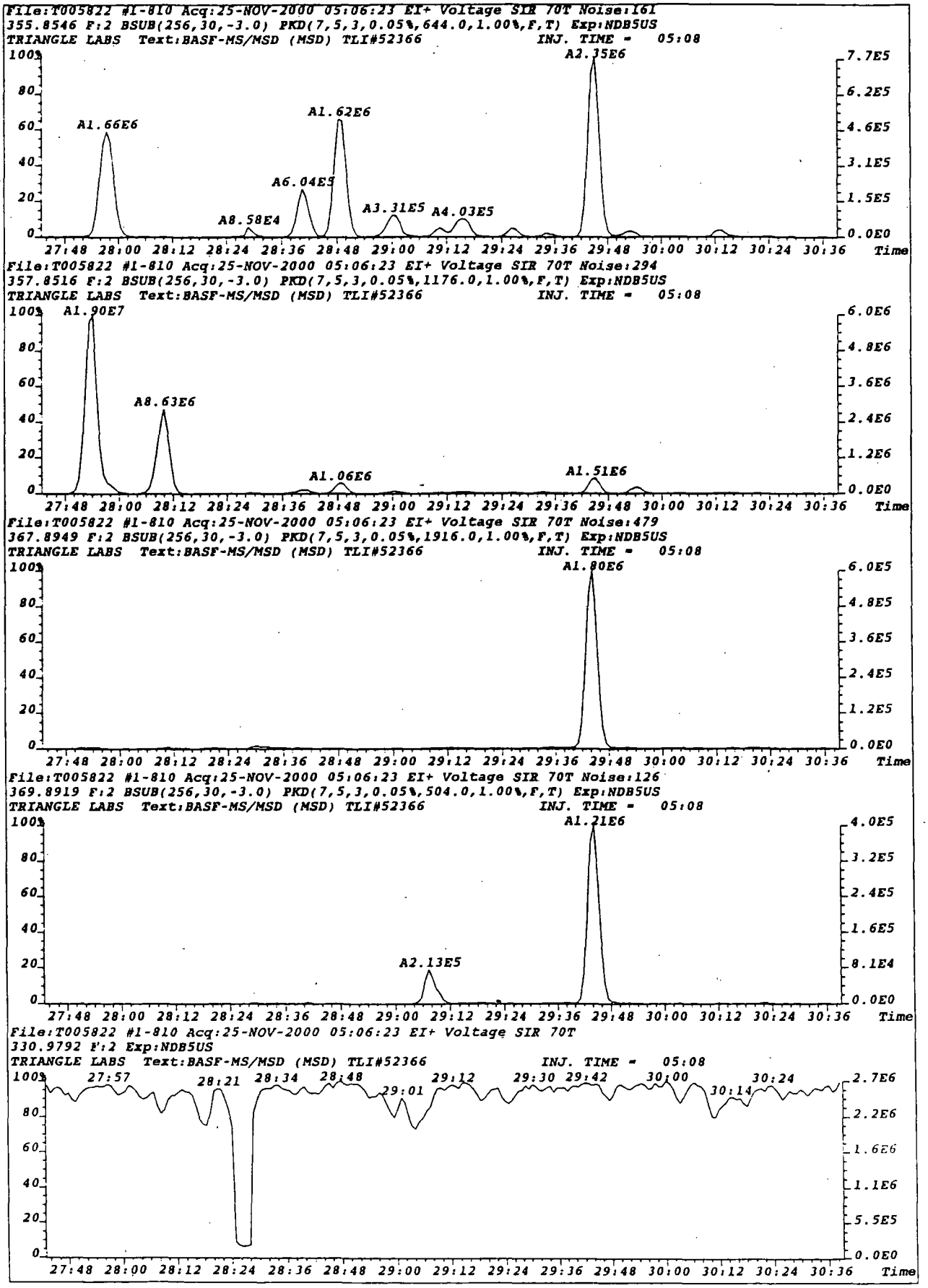
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1596.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A6.18E6
A3.39E6
A2.31E6
A9.12E5
A3.73E5
A8.61E5
A9.59E5
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:319
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A4.22E6
A2.27E6
A1.54E6
A6.30E5
A2.31E5
A5.75E5
A6.12E5
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:375
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1500.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A2.86E6
A2.60E6
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:353
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1412.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A1.87E6
A1.72E6
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
26:43 27:05 27:30 27:57 28:48 29:12 29:42 30:00 30:24 30:38
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
28:45
30:06
29:00
26:47
27:00
28:00
29:00
30:00
Time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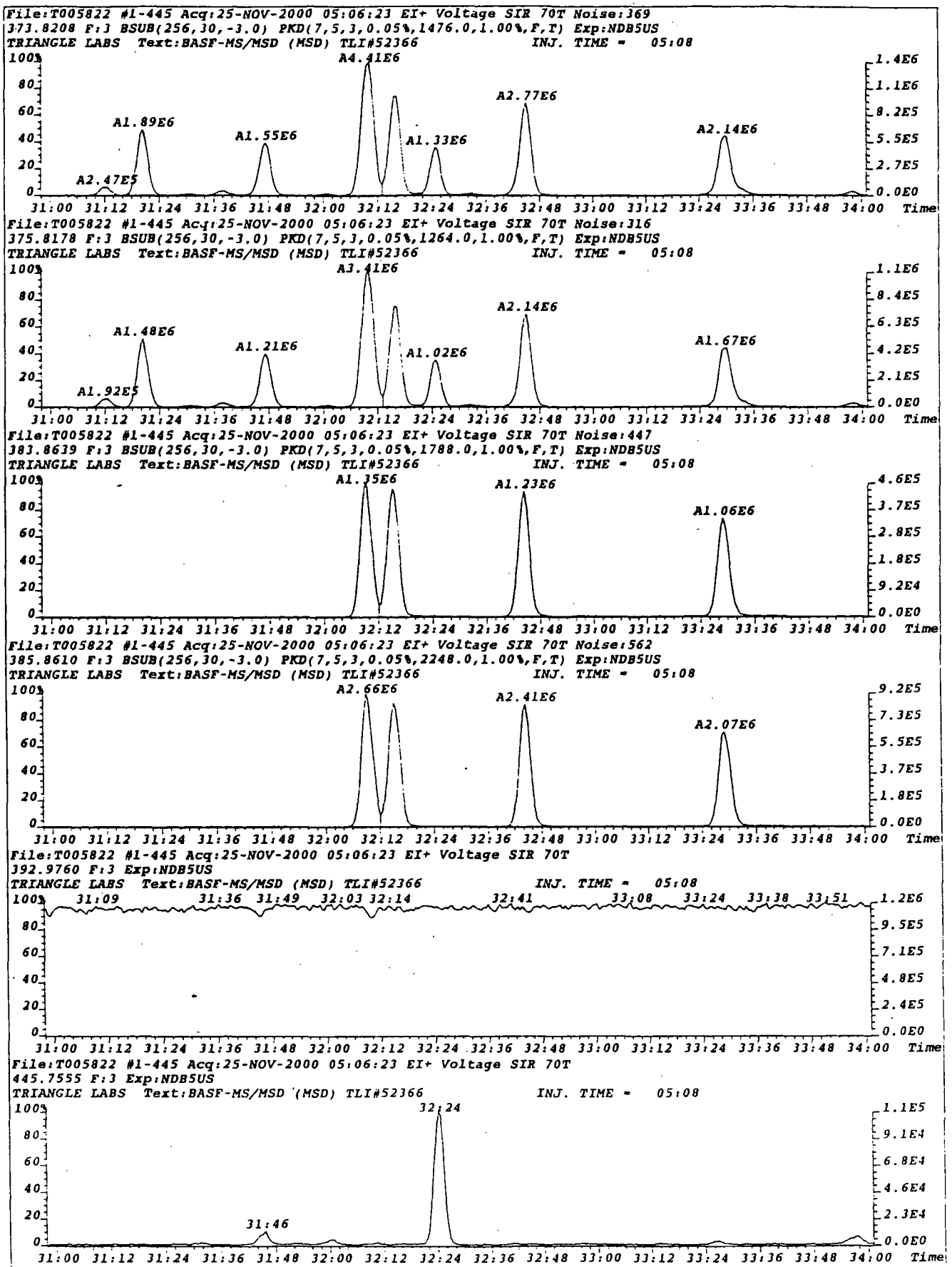
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,644.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A1.66E6
A8.58E4
A6.04E5
A1.62E6
A3.31E5
A4.03E5
A2.35E6
Time
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:294
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1176.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A1.90E7
A8.63E6
A1.06E6
A1.51E6
Time
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:479
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1916.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A1.80E6
Time
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:126
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,504.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A1.21E6
A2.13E5
Time
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
27:57
28:21
28:34
28:48
29:01
29:12
29:30
29:42
30:00
30:14
30:24
Time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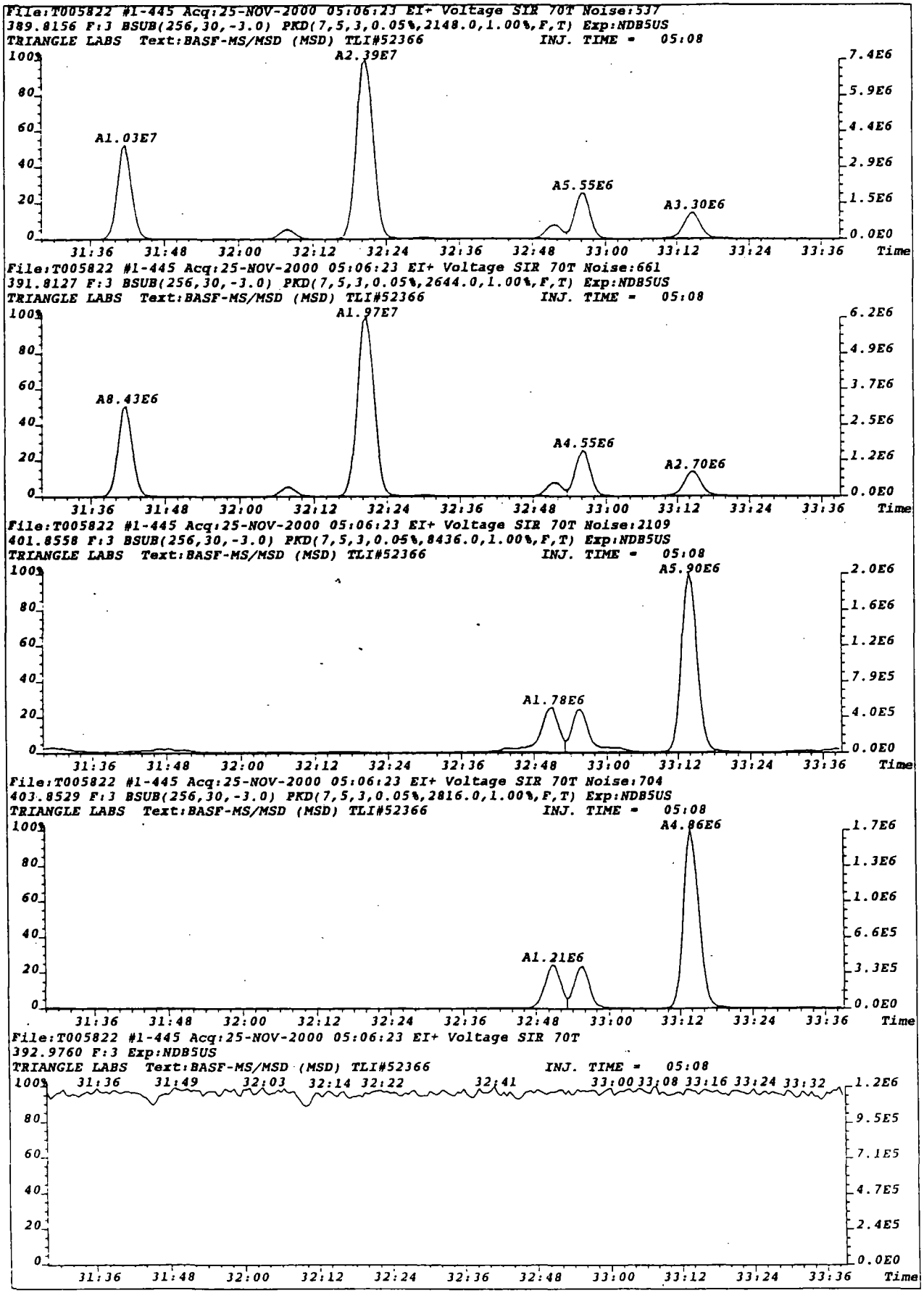
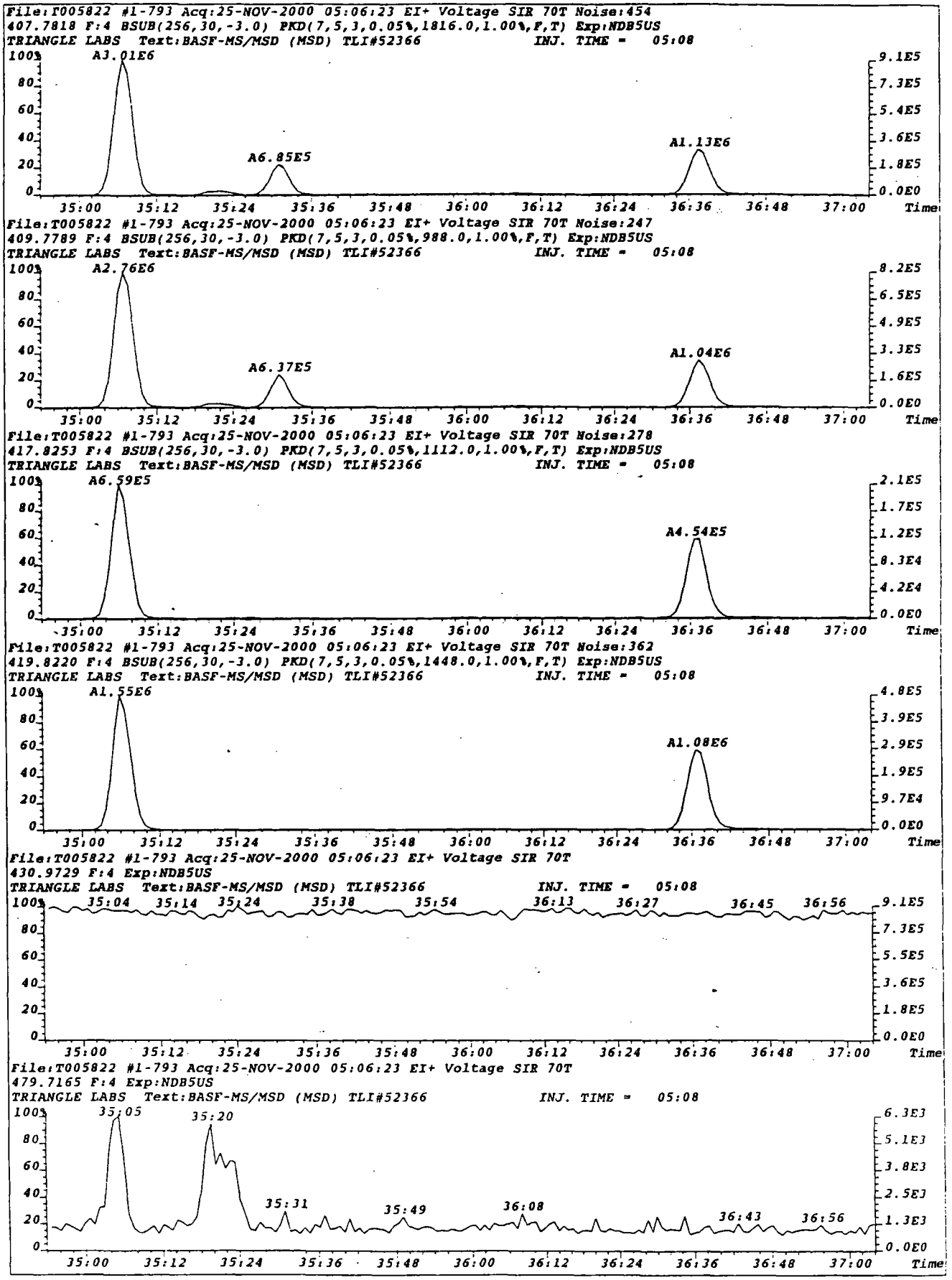
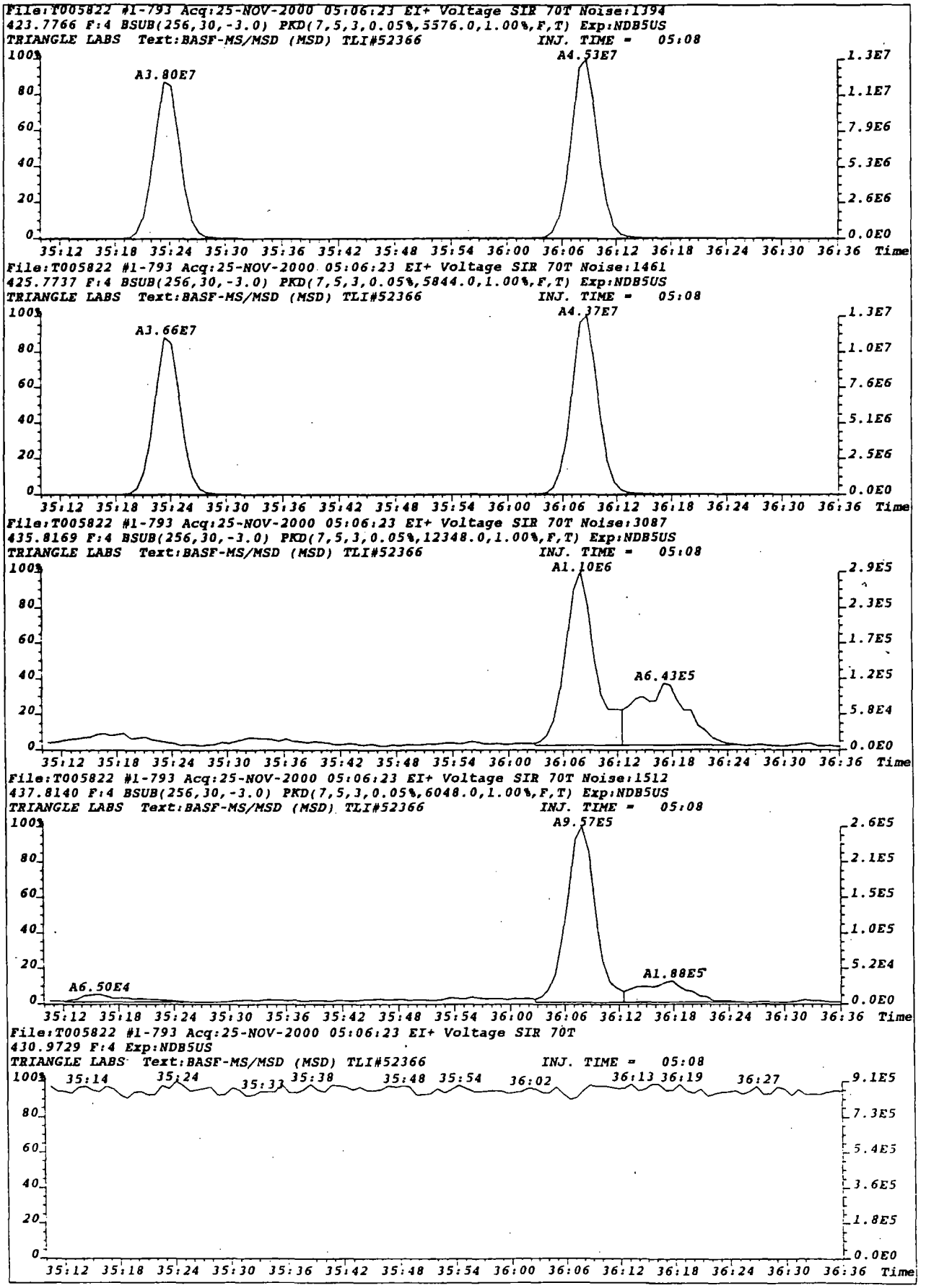
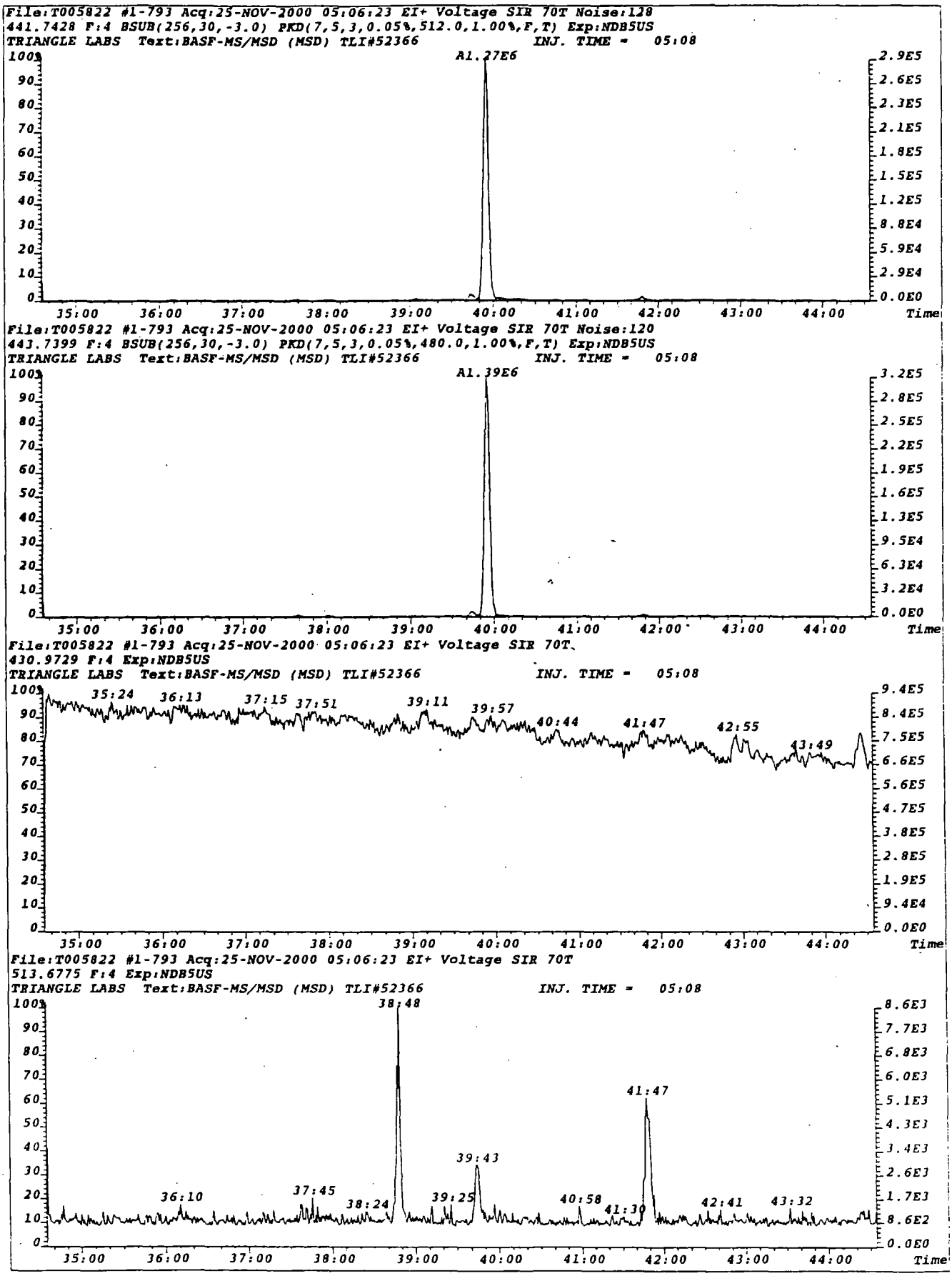
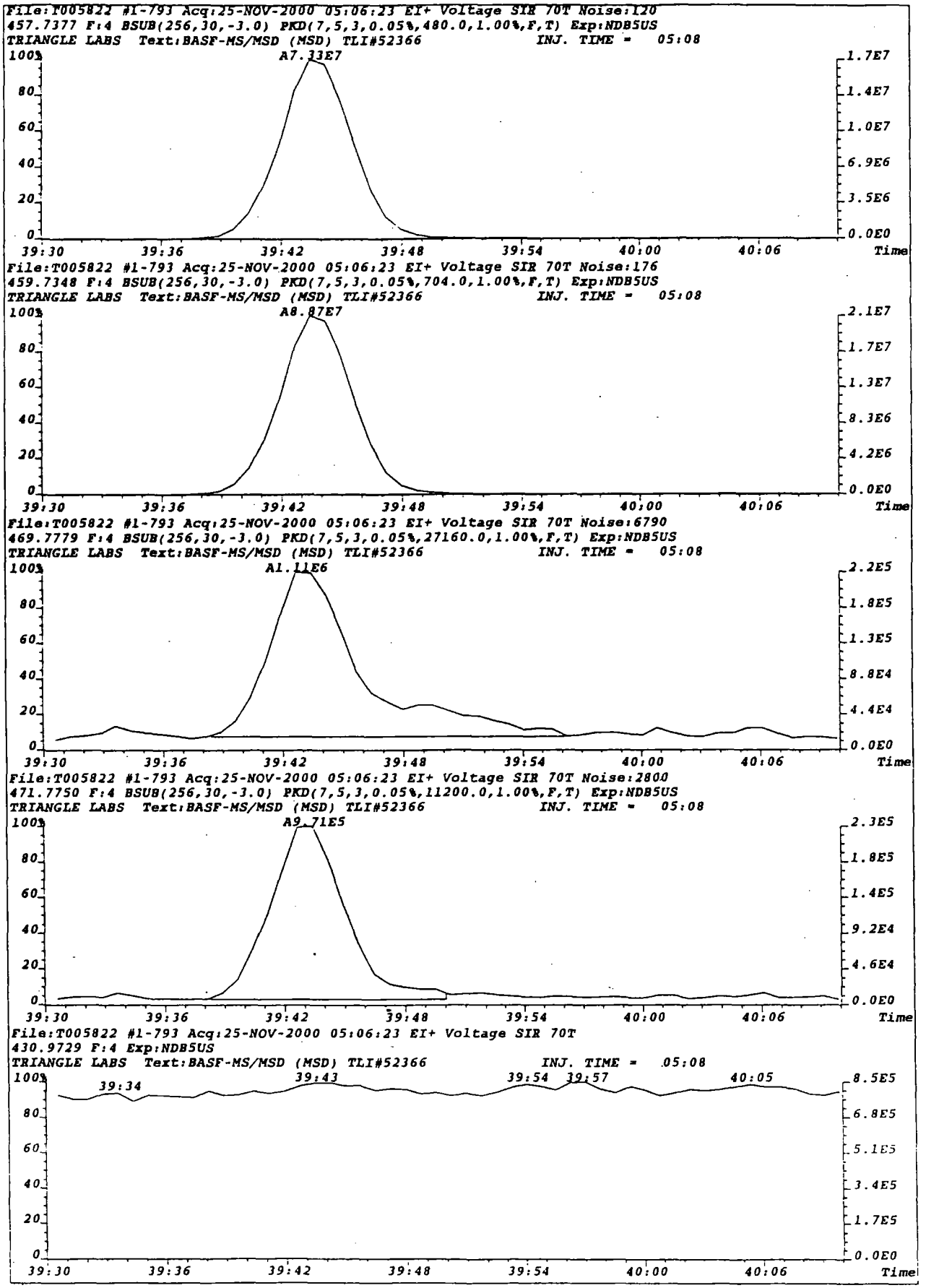
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1476.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A2.47E5
A1.89E6
A1.55E6
A4.41E6
A1.33E6
A2.77E6
A2.14E6
File:T005822 #1-445 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:316
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1264.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A1.92E5
A1.48E6
A1.21E6
A3.41E6
A1.02E6
A2.14E6
A1.67E6
File:T005822 #1-445 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:447
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1788.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A1.35E6
A1.23E6
A1.06E6
File:T005822 #1-445 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:562
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2248.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A2.66E6
A2.41E6
A2.07E6
File:T005822 #1-445 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
File:T005822 #1-445 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
31:46
32:24
Time

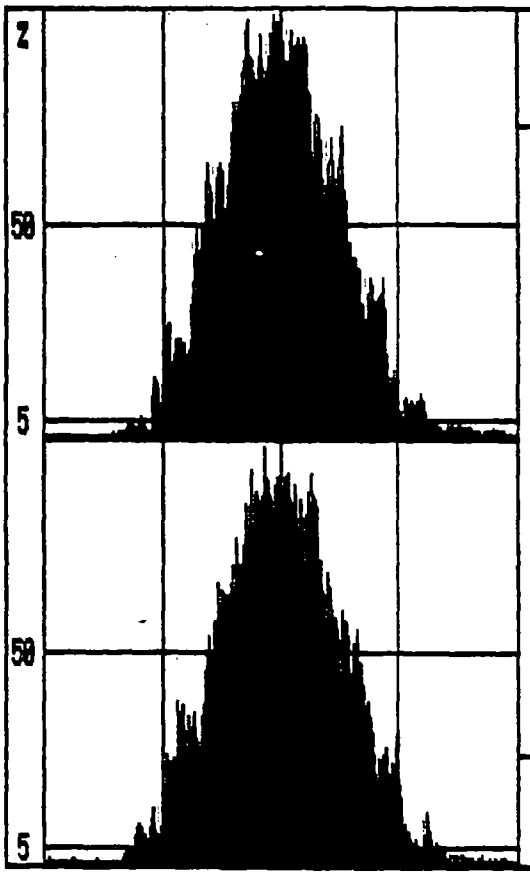

File:T005822 #1-445 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:537
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A2.39E7
A1.03E7
A5.55E6
A3.30E6
File:T005822 #1-445 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:661
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2644.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A1.97E7
A8.43E6
A4.55E6
A2.70E6
File:T005822 #1-445 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:2109
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,8436.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A5.90E6
A1.78E6
File:T005822 #1-445 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:704
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2816.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A4.86E6
A1.21E6
File:T005822 #1-445 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
Time


File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:454
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1816.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A3.01E6
A6.85E5
A1.13E6
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:247
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,988.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A2.76E6
A6.37E5
A1.04E6
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:278
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1112.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A6.59E5
A4.54E5
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:362
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1448.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A1.55E6
A1.08E6
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
35:05
35:20
35:31
35:49
36:08
36:43
36:56
Time


File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:1394
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,5576.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A3.80E7
A4.53E7
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:1461
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,5844.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A3.66E7
A4.37E7
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:3087
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,12348.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A1.10E6
A6.43E5
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:1512
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,6048.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A9.57E5
A6.50E4
A1.88E5
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
35:12 35:18 35:24 35:30 35:36 35:42 35:48 35:54 36:00 36:06 36:12 36:18 36:24 36:30 36:36 Time


File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:128
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,512.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A1.27E6
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:120
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,480.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A1.39E6
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
35:24
36:13
37:15
37:51
39:11
39:57
40:44
41:47
42:55
43:49
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
38:48
41:47
39:43
36:10
37:45
38:24
39:25
40:58
41:30
42:41
43:32
35:00
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
Time


File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:120
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,480.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A7.33E7
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:176
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,704.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A8.87E7
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:6790
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,27160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A1.11E6
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T Noise:2800
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,11200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
A9.71E5
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08
39:34
39:43
39:54
39:57
40:05
39:30
39:36
39:42
39:48
39:54
40:00
40:06
Time

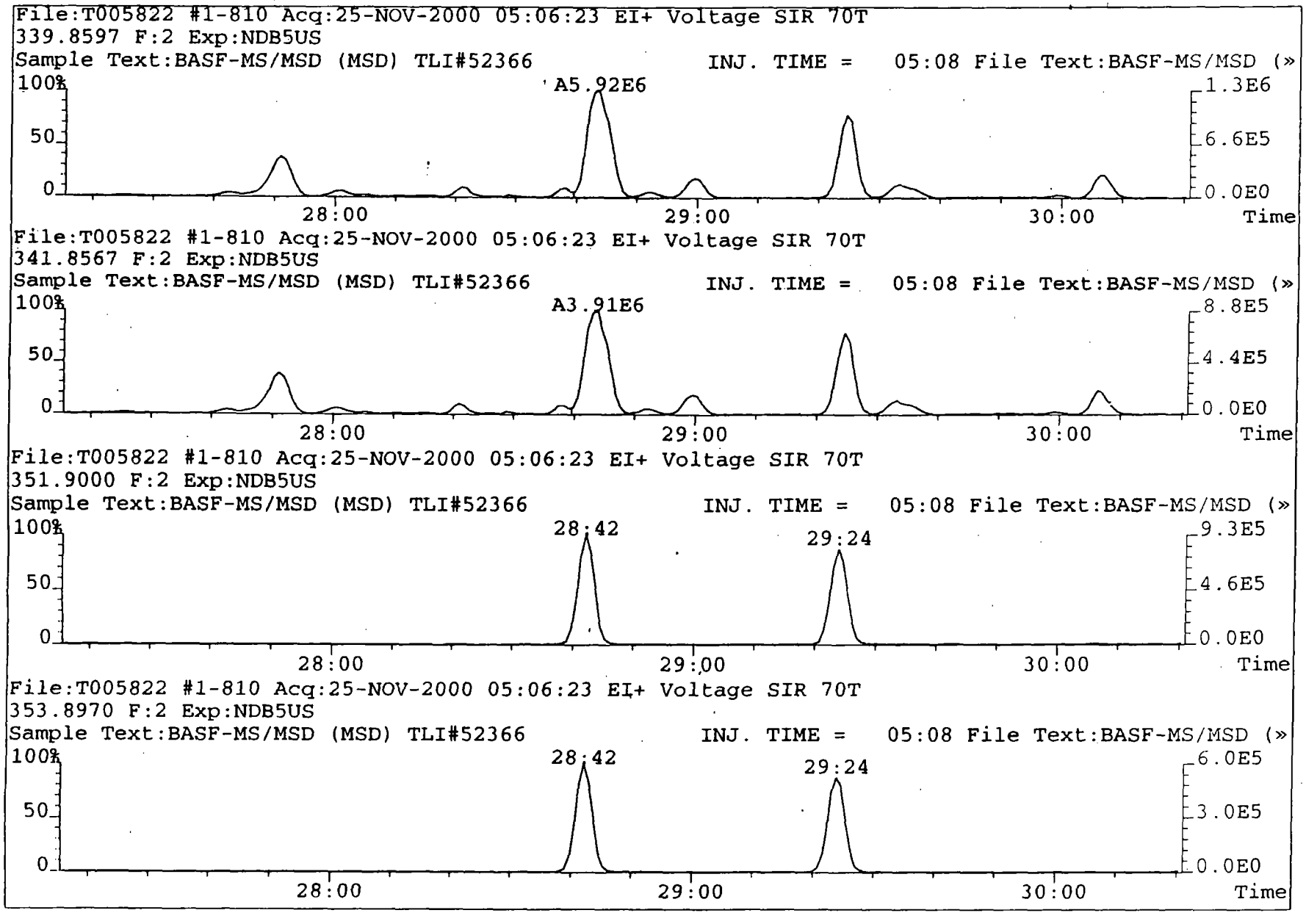


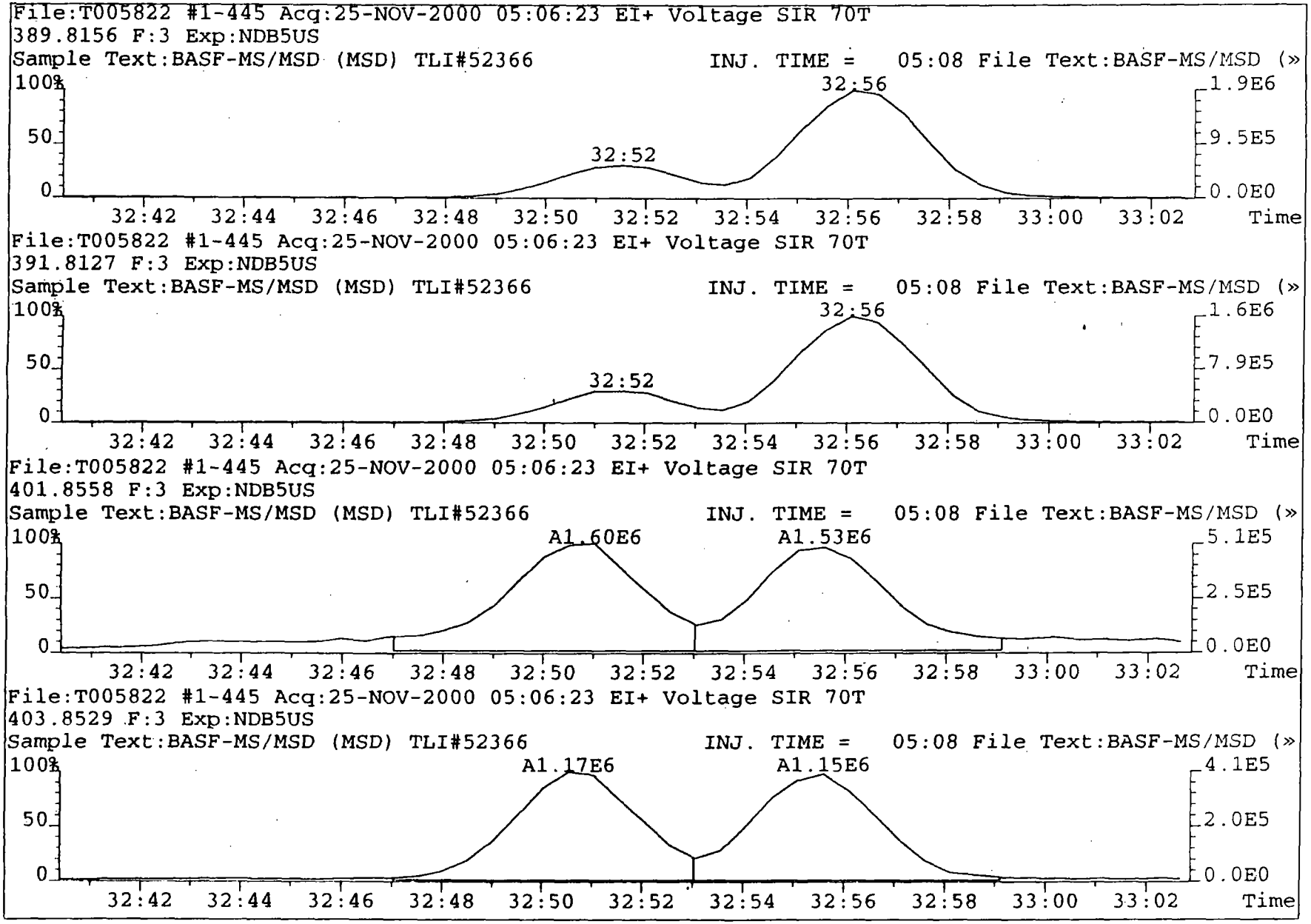
Channel I 330.9792 Peak top
Height .74 volts Span 200 ppm

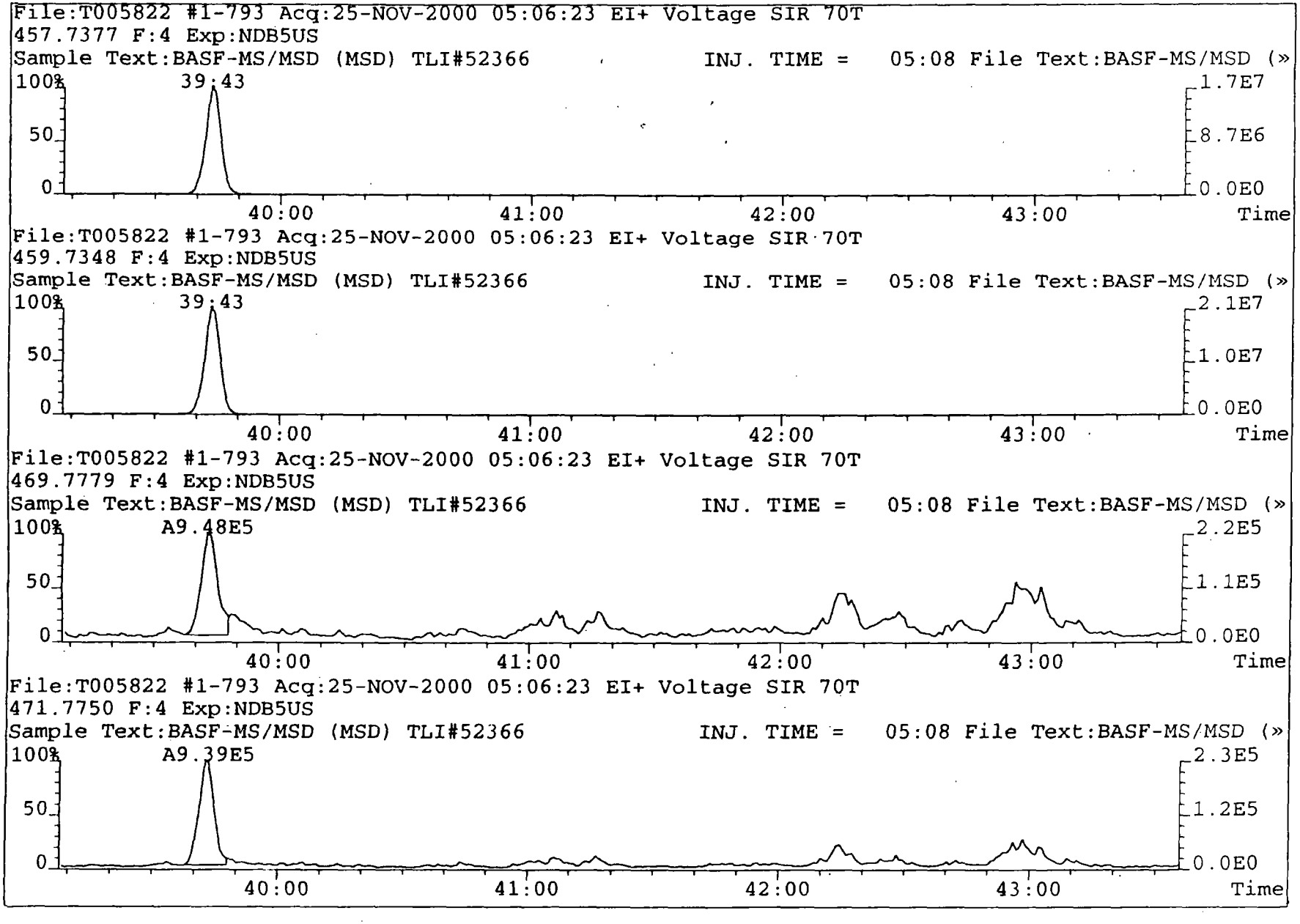
System file name	NOBSUS
Data file name	A:TN25001
Resolution	10000
Group number	2
Ionization mode	EI+
Switching	VOLTAGE
Ref. masses	292.9825, 416.9768

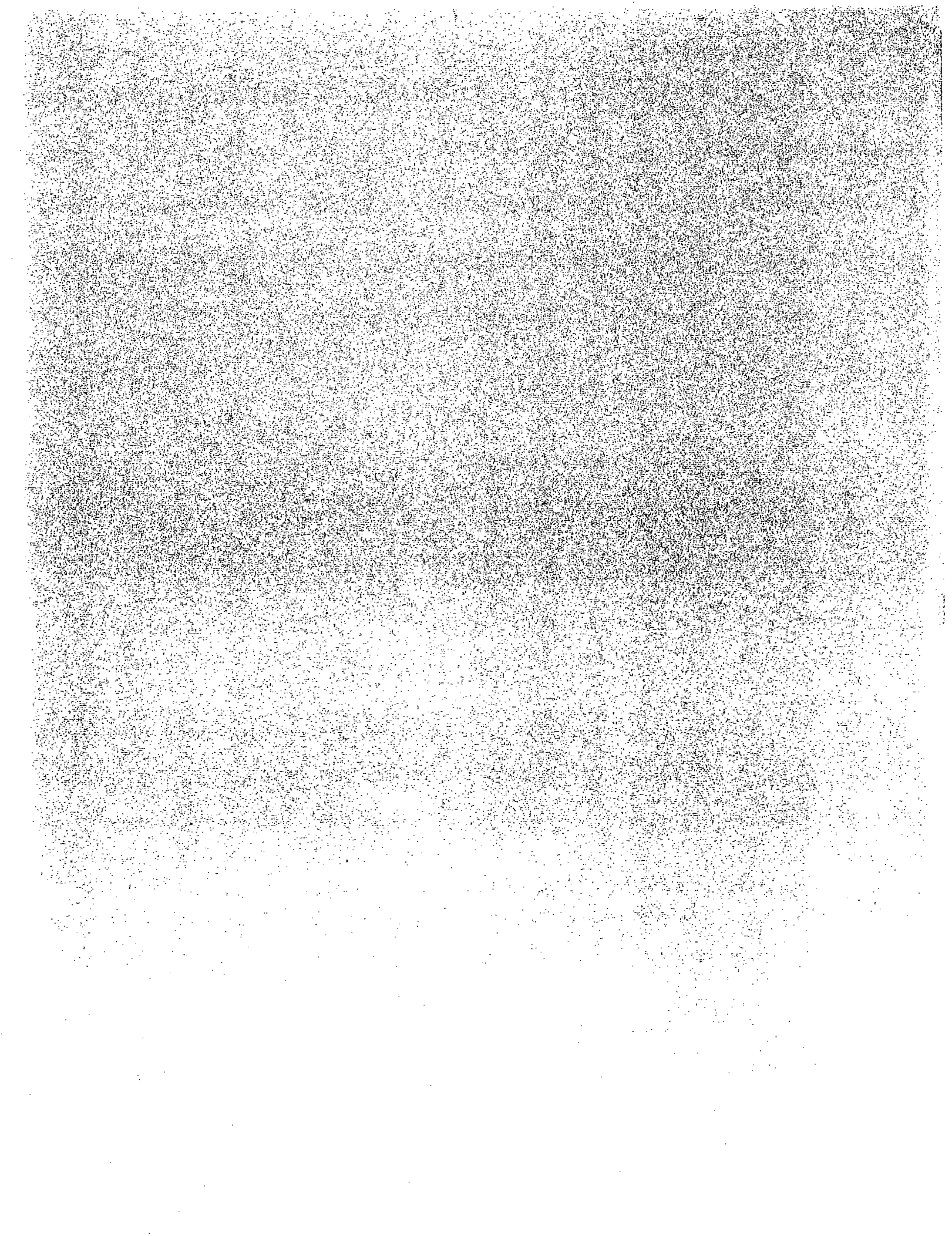
A	293	J	331	S	368
B	304	K	332	T	370
C	306	L	334	U	376
D	316	M	340	V	410
E	318	N	342		
F	320	O	352		
G	322	P	354		
H	328	Q	356		
I	331	R	358		

Ref. mass 416.9768 Peak top
Height .21 volts Span 200 ppm


File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
339.8597 F:2 Exp:NDB5US
Sample Text:BASF-MS/MSD (MSD) TLI#52366
INJ. TIME = 05:08 File Text:BASF-MS/MSD (»
100%
50
0
A5.92E6
1.3E6
6.6E5
0.0E0
28:00
29:00
30:00
Time
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
341.8567 F:2 Exp:NDB5US
Sample Text:BASF-MS/MSD (MSD) TLI#52366
INJ. TIME = 05:08 File Text:BASF-MS/MSD (»
100%
50
0
A3.91E6
8.8E5
4.4E5
0.0E0
28:00
29:00
30:00
Time
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
351.9000 F:2 Exp:NDB5US
Sample Text:BASF-MS/MSD (MSD) TLI#52366
INJ. TIME = 05:08 File Text:BASF-MS/MSD (»
100%
50
0
28:42
29:24
9.3E5
4.6E5
0.0E0
28:00
29:00
30:00
Time
File:T005822 #1-810 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
353.8970 F:2 Exp:NDB5US
Sample Text:BASF-MS/MSD (MSD) TLI#52366
INJ. TIME = 05:08 File Text:BASF-MS/MSD (»
100%
50
0
28:42
29:24
6.0E5
3.0E5
0.0E0
28:00
29:00
30:00
Time


File:T005822 #1-445 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
389.8156 F:3 Exp:NDB5US
Sample Text:BASF-MS/MSD (MSD) TLI#52366
INJ. TIME = 05:08 File Text:BASF-MS/MSD (»
100%
50
0
32:52
32:56
1.9E6
9.5E5
0.0E0
32:42 32:44 32:46 32:48 32:50 32:52 32:54 32:56 32:58 33:00 33:02 Time
File:T005822 #1-445 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
391.8127 F:3 Exp:NDB5US
Sample Text:BASF-MS/MSD (MSD) TLI#52366
INJ. TIME = 05:08 File Text:BASF-MS/MSD (»
100%
50
0
32:52
32:56
1.6E6
7.9E5
0.0E0
32:42 32:44 32:46 32:48 32:50 32:52 32:54 32:56 32:58 33:00 33:02 Time
File:T005822 #1-445 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
401.8558 F:3 Exp:NDB5US
Sample Text:BASF-MS/MSD (MSD) TLI#52366
INJ. TIME = 05:08 File Text:BASF-MS/MSD (»
100%
50
0
A1.60E6
A1.53E6
5.1E5
2.5E5
0.0E0
32:42 32:44 32:46 32:48 32:50 32:52 32:54 32:56 32:58 33:00 33:02 Time
File:T005822 #1-445 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
403.8529 F:3 Exp:NDB5US
Sample Text:BASF-MS/MSD (MSD) TLI#52366
INJ. TIME = 05:08 File Text:BASF-MS/MSD (»
100%
50
0
A1.17E6
A1.15E6
4.1E5
2.0E5
0.0E0
32:42 32:44 32:46 32:48 32:50 32:52 32:54 32:56 32:58 33:00 33:02 Time


File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
457.7377 F:4 Exp:NDB5US
Sample Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08 File Text:BASF-MS/MSD (»
100%
39.43
50
0
1.7E7
8.7E6
0.0E0
40:00
41:00
42:00
43:00
Time
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
459.7348 F:4 Exp:NDB5US
Sample Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08 File Text:BASF-MS/MSD (»
100%
39.43
50
0
2.1E7
1.0E7
0.0E0
40:00
41:00
42:00
43:00
Time
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
469.7779 F:4 Exp:NDB5US
Sample Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08 File Text:BASF-MS/MSD (»
100%
A9.48E5
50
0
2.2E5
1.1E5
0.0E0
40:00
41:00
42:00
43:00
Time
File:T005822 #1-793 Acq:25-NOV-2000 05:06:23 EI+ Voltage SIR 70T
471.7750 F:4 Exp:NDB5US
Sample Text:BASF-MS/MSD (MSD) TLI#52366 INJ. TIME = 05:08 File Text:BASF-MS/MSD (»
100%
A9.39E5
50
0
2.3E5
1.2E5
0.0E0
40:00
41:00
42:00
43:00
Time



TriMatrix, Inc.

TLI Project: **52366** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **TLI LCS** Analysis File: **T005827**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	/ /	Spike File:	**SPMIT32S**
TLI ID:	**TLI LCS**	Date Extracted:	**11/21/2000**	ICal:	**TF57140**
		Date Analyzed:	**11/25/2000**	ConCal:	**T005815**
Sample Size:	**1.000 L**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005817**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	435			0.80	25:23	
1,2,3,7,8-PeCDD	1860			1.63	29:41	
1,2,3,4,7,8-HxCDD	2050			1.23	32:48	
1,2,3,6,7,8-HxCDD	2050			1.21	32:53	
1,2,3,7,8,9-HxCDD	2100			1.21	33:12	
1,2,3,4,6,7,8-HpCDD	2240			1.07	36:06	
1,2,3,4,6,7,8,9-OCDD	4430			0.81	39:41	
2,3,7,8-TCDF	402			0.85	24:39	
1,2,3,7,8-PeCDF	2180			1.57	28:38	
2,3,4,7,8-PeCDF	2550			1.49	29:21	
1,2,3,4,7,8-HxCDF	2050			1.29	32:07	
1,2,3,6,7,8-HxCDF	2060			1.30	32:13	
2,3,4,6,7,8-HxCDF	2170			1.31	32:42	
1,2,3,7,8,9-HxCDF	2200			1.30	33:27	
1,2,3,4,6,7,8-HpCDF	2040			1.08	35:04	
1,2,3,4,7,8,9-HpCDF	1780			1.10	36:35	
1,2,3,4,6,7,8,9-OCDF	5020			0.89	39:52	

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	1100	55.2	40%-130%	0.76	24:38	
$^{13}C_{12}$-2,3,7,8-TCDD	1140	56.8	40%-130%	0.79	25:21	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1970	98.6	40%-130%	1.50	28:37	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2740	137	40%-130%	1.52	29:40	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1300	65.1	40%-130%	0.51	32:12	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1380	69.0	40%-130%	1.21	32:53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1160	58.0	25%-130%	0.42	35:03	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	935	46.8	25%-130%	1.05	36:05	
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	967	24.2	25%-130%	0.85	39:40	V

MIT3_PSR v1.00, LARS 6.25.001

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Printed: 18:37 11/29/2000

TriMatrix, Inc.

TLI Project: 52366 — Method 8290 PCDD/PCDF Analysis (b)
Client Sample: TLI LCS — Analysis File: T005827

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2460	123	40%-130%	1.52	29:20	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1340	67.1	40%-130%	0.51	32:06	___
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1350	67.4	40%-130%	1.20	32:47	___
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	989	49.5	25%-130%	0.41	36:34	___

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	138	69.0	40%-130%	25:23	___

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1550	77.4	40%-130%	0.51	33:26	___
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1440	71.9	40%-130%	0.51	32:41	___

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.81	25:10	___
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.20	33:11	___

Data Reviewer: JCA 11/29/2000

MIT3_PSR v1.00, LARS 6.25 r01

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Printed: 18:37 11/29/2000

Initial ....Date...

Data Review By: JCW 11-29-00

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 T005827B.dbf
11/29/2000 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					0.860-1.077				
304-306	DC	NL			Height			0.05	0.03	0.02				
	DC	SN			22:22	RO	0.53	0.18			0.908			
	DC	SN			22:44		0.85	0.24			0.923			
	DC	SN			22:56	RO	1.10	0.18			0.931			
					24:13		0.86	0.82	0.38	0.44	0.983	1278-TCDF	AN	J
					24:39		0.85	34.38	15.77	18.61	1.001	2378-TCDF	AN	
	DC	SN			25:01	RO	1.38	0.14			1.016			
	DC	SN			25:19	RO	1.00	0.12			1.028			
					26:20	RO	1.08	0.23	0.14	0.13	1.069			J
	DC	WH			26:42	RO	0.53	0.21			1.084			
304-306			3	Peaks				35.43						
13C12-TCDF					0.65-0.89					0.959-1.041				
316-318	DC	NL			Height			0.04	0.02	0.02				
					24:11		0.72	0.67	0.28	0.39	0.982			
					24:38		0.76	167.35	72.53	94.82	1.000	13C12-2378-TCDF	ISO	
							Height	46.91	19.86	27.05				
					25:04	RO	0.92	1.54	0.67	0.73	1.018			
	DC	WH			26:07	RO	6.72	0.32			1.060			
316-318			3	Peaks				169.56						

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

TCDD					0.65-0.89					0.890-1.045				
320-322	DC	NL			Height			0.04	0.02	0.02				
	DC	SN			24:46		0.89	0.17			0.977			
	DC	SN			25:02	RO	0.50	0.07			0.988			
					25:23		0.80	28.08	12.47	15.61	1.001	2378-TCDD	AN	
	DC	SN			25:37		0.83	0.11			1.011			
	DC	SN			25:42	RO	1.50	0.14			1.014			
	DC	SN			25:52	RO	0.50	0.05			1.020			
					26:08	RO	0.33	0.09	0.04	0.12	1.031			J
					26:14	RO	1.75	0.14	0.14	0.08	1.035			J
	DC	SN			26:	RO	2.33	0.05			1.045			
	DC	WH			26:34	RO	1.75	0.07			1.048			
320-322			3	Peaks				28.31						
37Cl-TCDD										0.921-1.079				
328	DC	NL					Height	0.03	0.03					
	DC	WL			22:45			0.07			0.897			
	DC	WL			22:59			0.02			0.907			
	DC	WL			23:06			0.07			0.911			
	DC	WL			23:14			0.03			0.917			

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.
				23:21			0.07	0.07		0.921			
	DC	SN		23:26			0.05			0.924			
	DC	SN		23:44			0.03			0.936			
	DC	SN		23:47			0.02			0.938			
	DC	SN		23:55			0.07			0.943			
				23:57			0.17	0.17		0.945			
	DC	SN		24:03			0.04			0.949			
	DC	SN		24:16			0.07			0.957			
	DC	SN		24:29			0.09			0.966			
	DC	SN		24:42			0.15			0.974			
	DC	SN		25:03			0.03			0.988			
	DC	SN		25:04			0.04			0.989			
	DC	SN		25:09			0.02			0.992			
				25:23			14.52	14.52		1.001	37Cl-TCDD	CLS	
				26:06			0.32	0.32		1.030			
				26:12			0.11	0.11		1.034			
				26:19			0.10	0.10		1.038			
	DC	SN		26:22			0.12			1.040			
				26:35			0.11	0.11		1.049			
	DC	SN		26:43			0.10			1.054			
	DC	SN		26:57			0.11			1.063			
328			7	Peaks			15.40						
13C12-TCDD				0.65-0.89						0.921-1.079			
332-334	DC	NL		Height			0.06	0.04	0.02				
				25:10		0.81	236.38	105.80	130.58	0.993	13C12-1234-TCDD	RS1	
				25:21		0.79	141.25	62.41	78.84	1.000	13C12-2378-TCDD	IS1	
				Height			39.18	17.08	22.10				
				25:52	RO	1.13	0.41	0.26	0.23	1.020			
332-334			3	Peaks			378.04						

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

PeCDF				1.32-1.78						0.923-1.064			
340-342	DC	NL		Height			0.04	0.02	0.02				
				27:48	RO	2.23	0.79	0.69	0.31	0.971			J
				28:16	RO	2.24	0.43	0.38	0.17	0.988			J
				28:38		1.57	277.82	169.54	108.28	1.001	12378-PeCDF	AN	
				28:49		1.32	2.04	1.16	0.88	1.007			J
				28:56	RO	1.20	3.67	2.23	1.86	1.011			J
	N			29:21		1.49	329.22	196.91	132.31	1.026	23478-PeCDF	AN	
				30:20		1.64	1.56	0.97	0.59	1.060			J
340-342			7	Peaks			615.53						
13C12-PeCDF				1.32-1.78						0.860-1.140			
352-354	DC	NL		Height			0.04	0.02	0.02				
				27:47		1.38	0.50	0.29	0.21	0.971			
				28:37		1.50	279.45	167.65	111.80	1.000	13C12-PeCDF 123	IS2	
				Height			86.53	51.72	34.81				
				28:46	RO	2.00	1.63	1.28	0.54	1.005			
				28:55		1.59	1.89	1.16	0.73	1.010			
				29:20		1.52	345.00	207.84	137.16	1.025	13C12-PeCDF 234	SUR1	

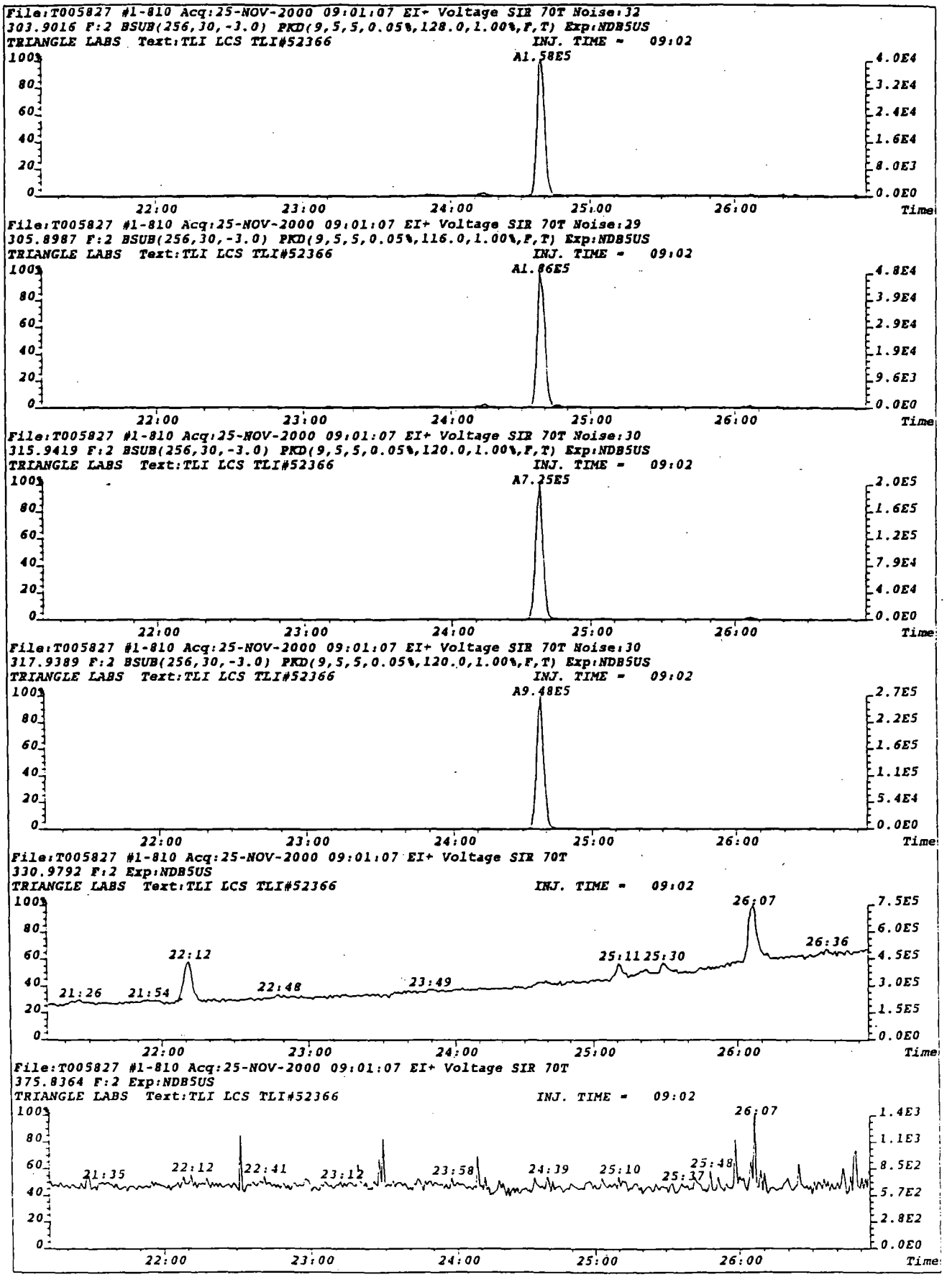
Compound/ M_Z....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				30:19		1.53	3.42	2.07	1.35	1.059			
352-354			6	Peaks			631.89						
---------- Above: PeCDF / PeCDD Follows ----------													
PeCDD						1.32-1.78				0.933-1.021			
356-358	DC	NL				Height	0.04	0.02	0.02				
				29:41		1.63	216.91	134.53	82.38	1.001	12378-PeCDD	AN	
356-358			1	Peak			216.91						
13C12-PeCDD						1.32-1.78				0.865-1.135			
368-370	DC	NL				Height	0.04	0.02	0.02				
				28:35		1.69	1.13	0.71	0.42	0.963			
				28:44		1.33	0.70	0.40	0.30	0.969			
				29:26	RO	0.89	0.26	0.16	0.18	0.992			
				29:40		1.52	220.76	133.21	87.55	1.000	13C12-PeCDD 123	IS3	
						Height	73.83	44.61	29.22				
				30:04		1.58	0.31	0.19	0.12	1.013			
				30:12	RO	1.15	0.33	0.15	0.13	1.018			
				30:28	RO	3.29	0.18	0.23	0.07	1.027			
368-370			7	Peaks			223.67						
---------- Above: PeCDD / HxCDF Follows ----------													
HxCDF						1.05-1.43				0.961-1.046			
374-376	DC	NL				Height	0.19	0.09	0.10				
				31:18	RO	0.88	0.54	0.30	0.34	0.972			J
				32:07		1.29	404.46	228.00	176.46	0.997	123478-HxCDF	AN	
				32:13		1.30	424.21	239.58	184.63	1.001	123678-HxCDF	AN	
				32:42		1.31	404.81	229.40	175.41	1.016	234678-HxCDF	AN	
				32:52	RO	1.94	0.78	0.68	0.35	1.021			J
				33:27		1.30	335.71	189.98	145.73	1.039	123789-HxCDF	AN	
	DC	WH		33:44	RO	0.55	0.40			1.048			
374-376			6	Peaks			1,570.51						
13C12-HxCDF						0.43-0.59				0.876-1.124			
384-386	DC	NL				Height	0.17	0.08	0.09				
				31:07		0.58	1.41	0.52	0.89	0.966			
				31:16		0.50	0.87	0.29	0.58	0.971			
				32:06		0.51	389.85	131.85	258.00	0.997	13C12-HxCDF 478	SUR2	
				32:12		0.51	383.97	130.46	253.51	1.000	13C12-HxCDF 678	IS4	
						Height	128.52	43.37	85.15				
				32:20	RO	2.50	0.33	0.55	0.22	1.004			
	DC	SN		32:25	RO	0.36	0.59			1.007			
				32:41		0.51	386.44	131.34	255.10	1.015	13C12-HxCDF 234	ALT2	
	DC	SN		32:58	RO	0.92	0.36			1.024			
	DC	SN		33:02	RO	0.14	0.12			1.026			
				33:10	RO	0.60	0.74	0.25	0.42	1.030			
				33:26		0.51	305.79	102.73	203.06	1.038	13C12-HxCDF 789	ALT1	
				33:42	RO	1.37	0.45	0.41	0.30	1.047			
	DC	SN		33:49	RO	0.32	0.18			1.050			
384-386			9	Peaks			1,469.85						

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				0.956-1.013			
390-392	DC	NL				Height	0.12	0.06	0.06				
	DC	SN		32:41	RO	3.00	0.18			0.994			
				32:48		1.23	264.91	146.34	118.57	0.997	123478-HxCDD	AN	
				32:53		1.21	265.07	145.03	120.04	1.000	123678-HxCDD	AN	
				33:12		1.21	274.13	150.36	123.77	1.010	123789-HxCDD	AN	
	DC	WH		33:24		1.29	1.26			1.016			
	DC	WH		33:30	RO	0.69	0.20			1.019			
	DC	WH		33:32	RO	3.13	0.18			1.020			
	DC	WH		33:37	RO	0.53	0.18			1.022			
390-392			3	Peaks			804.11						
13C12-HxCDD						1.05-1.43				0.970-1.030			
402-404	DC	NL				Height	0.29	0.20	0.09				
	DC	WL		31:32	RO	3.49	1.05			0.959			
				32:17		1.30	1.84	1.04	0.80	0.982			
				32:47		1.20	257.16	140.18	116.98	0.997	13C12-HxCDD 478	SUR3	
				32:53		1.21	254.23	139.38	114.85	1.000	13C12-HxCDD 678	IS5	
						Height	85.41	46.61	38.80				
				33:11		1.20	405.99	221.66	184.33	1.009	13C12-HxCDD 789	RS2	
				33:24	RO	2.55	0.90	1.02	0.40	1.016			
				33:41	RO	2.27	1.77	1.79	0.79	1.024			
402-404			6	Peaks			921.89						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF						0.88-1.20				0.995-1.048			
408-410	DC	NL				Height	0.15	0.07	0.08				
				35:04		1.08	292.50	151.92	140.58	1.000	1234678-HpCDF	AN	
	DC	SN		35:18	RO	0.75	0.65			1.007			
				36:35		1.10	196.76	103.14	93.62	1.044	1234789-HpCDF	AN	
	DC	WH		36:51	RO	0.42	0.22			1.051			
408-410			2	Peaks			489.26						
13C12-HpCDF						0.37-0.51				0.943-1.114			
418-420	DC	NL				Height	0.15	0.08	0.07				
				35:03		0.42	228.37	67.74	160.63	1.000	13C12-HpCDF 678	IS6	
						Height	71.70	21.09	50.61				
				36:34		0.41	151.55	43.91	107.64	1.043	13C12-HpCDF 789	SUR4	
418-420			2	Peaks			379.92						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD						0.88-1.20				0.974-1.005			
424-426	DC	NL				Height	0.11	0.05	0.06				
				36:06		1.07	156.15	80.82	75.33	1.000	1234678-HpCDD	AN	
424-426			1	Peak			156.15						
13C12-HpCDD						0.88-1.20				0.972-1.023			
436-438	DC	NL				Height	0.51	0.36	0.15				

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.
				36:05		1.05	162.86	83.23	79.63	1.000	13C12-HpCDD 678	IS7	
						Height	46.46	23.74	22.72				
436-438			1	Peak			162.86						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF						0.76-1.02					0.899-1.101		
442-444	DC	NL				Height	0.11	0.06	0.05				
	DC	WL		35:01	RO	0.67	0.17			0.883			
	DC	SN		37:13	RO	1.80	0.09			0.938			
	DC	SN		38:53		0.85	0.24			0.980			
	DC	SN		39:12	RO	1.38	0.15			0.988			
	DC	SN		39:18	RO	1.43	0.13			0.991			
	DC	SN		39:28	RO	2.40	0.09			0.995			
				39:52		0.89	189.32	89.35	99.97	1.005	OCDF		AN
	DC	SN		40:55	RO	0.50	0.06			1.032			
	DC	SN		40:59	RO	0.75	0.13			1.033			
	DC	SN		43:20	RO	1.83	0.11			1.092			
	DC	SN		43:33	RO	3.00	0.09			1.098			
442-444			1	Peak			189.32						
OCDD						0.76-1.02					0.899-1.101		
458-460	DC	NL				Height	0.12	0.06	0.06				
				39:41		0.81	138.76	62.29	76.47	1.000	OCDD		AN
	DC	SN		40:02	RO	0.53	0.21			1.009			
	DC	SN		40:08		0.89	0.17			1.012			
458-460			1	Peak			138.76						
13C12-OCDD						0.76-1.02					0.996-1.004		
470-472	DC	NL				Height	0.53	0.37	0.16				
				39:40		0.85	137.06	62.95	74.11	1.000	13C12-OCDD		IS8
						Height	30.13	13.55	16.58				
470-472			1	Peak			137.06						

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 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,128.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A1.58E5
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305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,116.0,1.00%,F,T) Exp:NDB5US
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INJ. TIME = 09:02
A1.86E5
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315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,120.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A7.25E5
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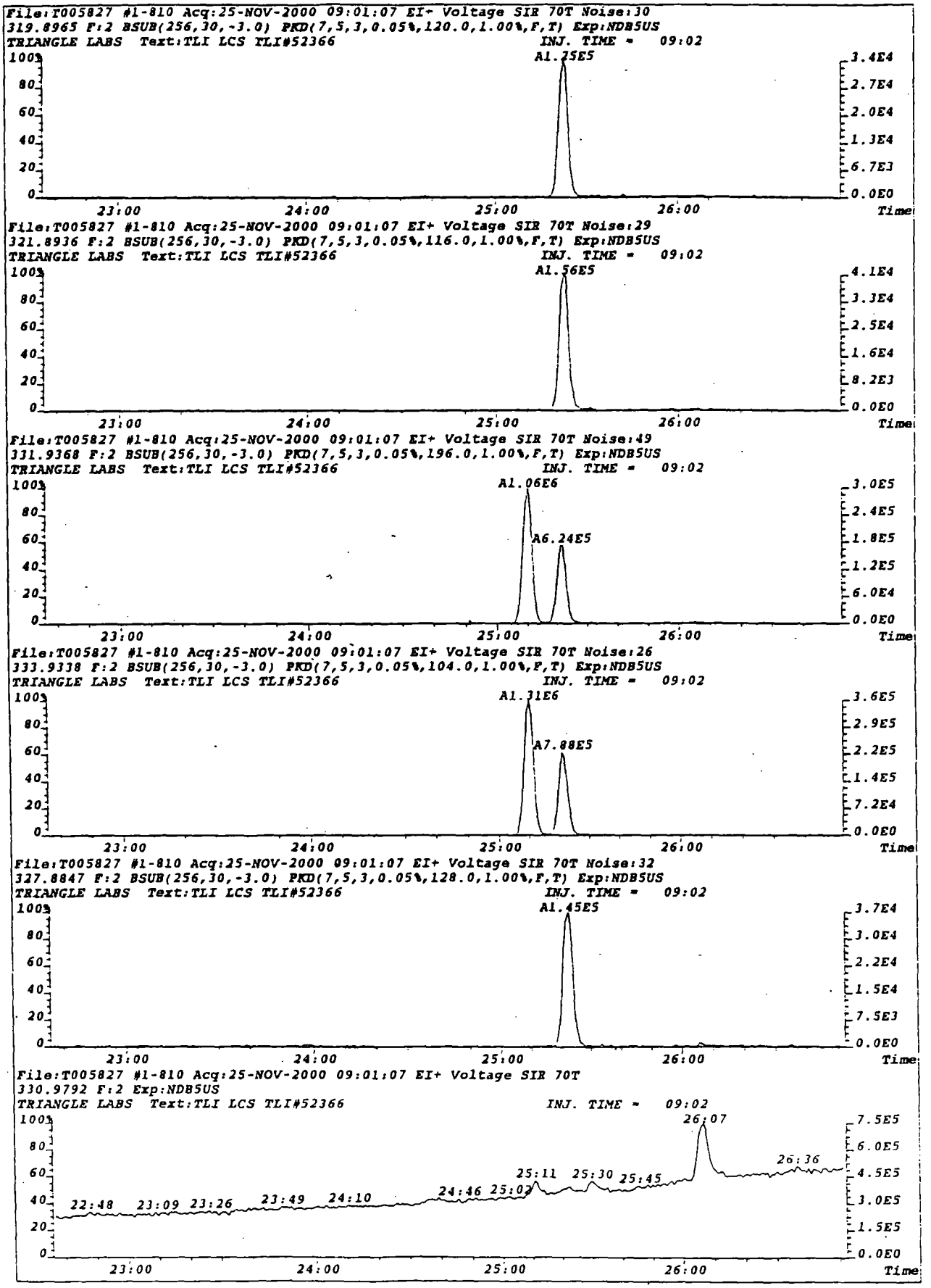
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,120.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A9.48E5
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
21:26
21:54
22:12
22:48
23:49
25:11
25:30
26:07
26:36
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
21:35
22:12
22:41
23:12
23:58
24:39
25:10
25:37
25:48
26:07
22:00
23:00
24:00
25:00
26:00
Time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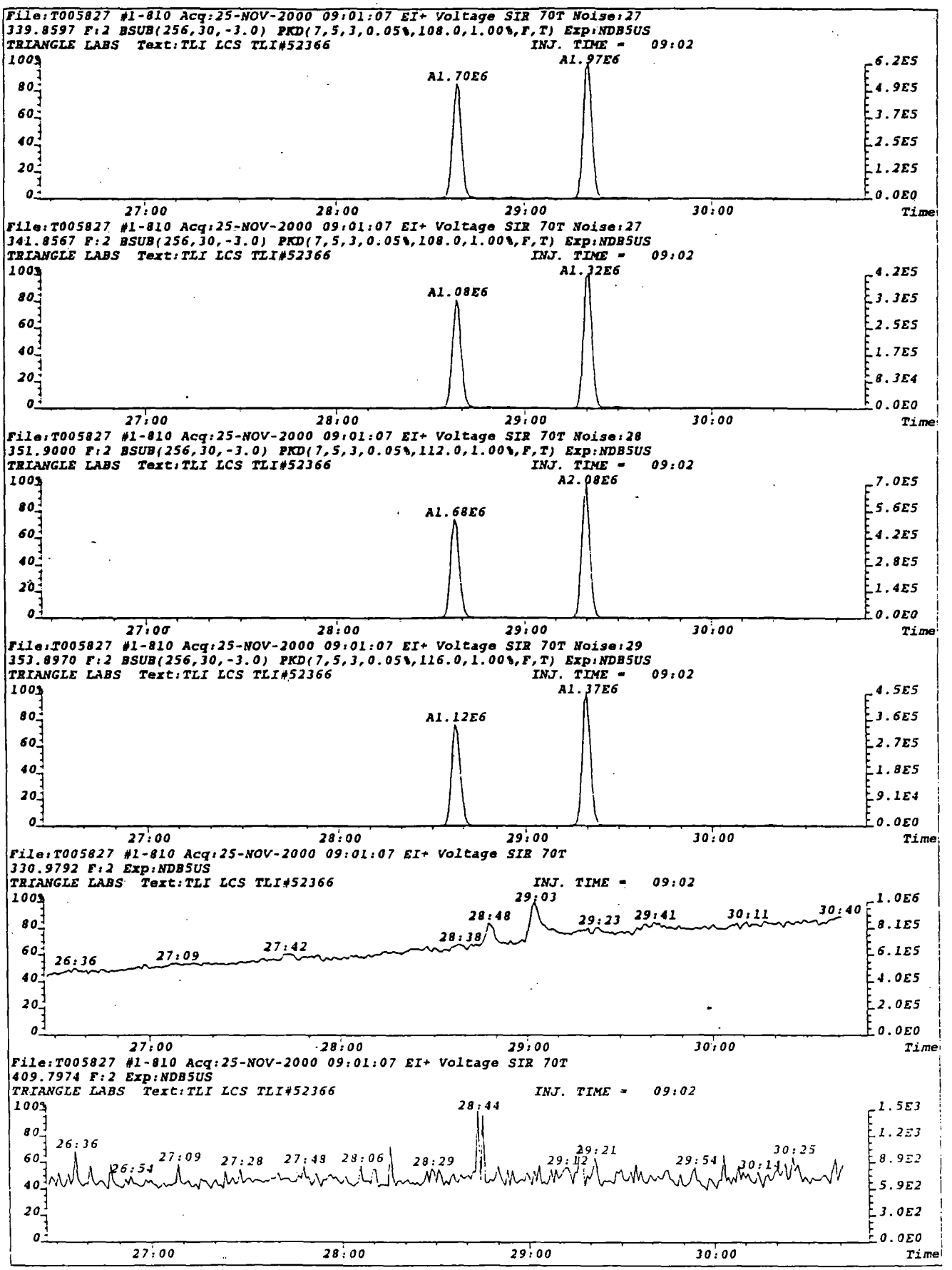
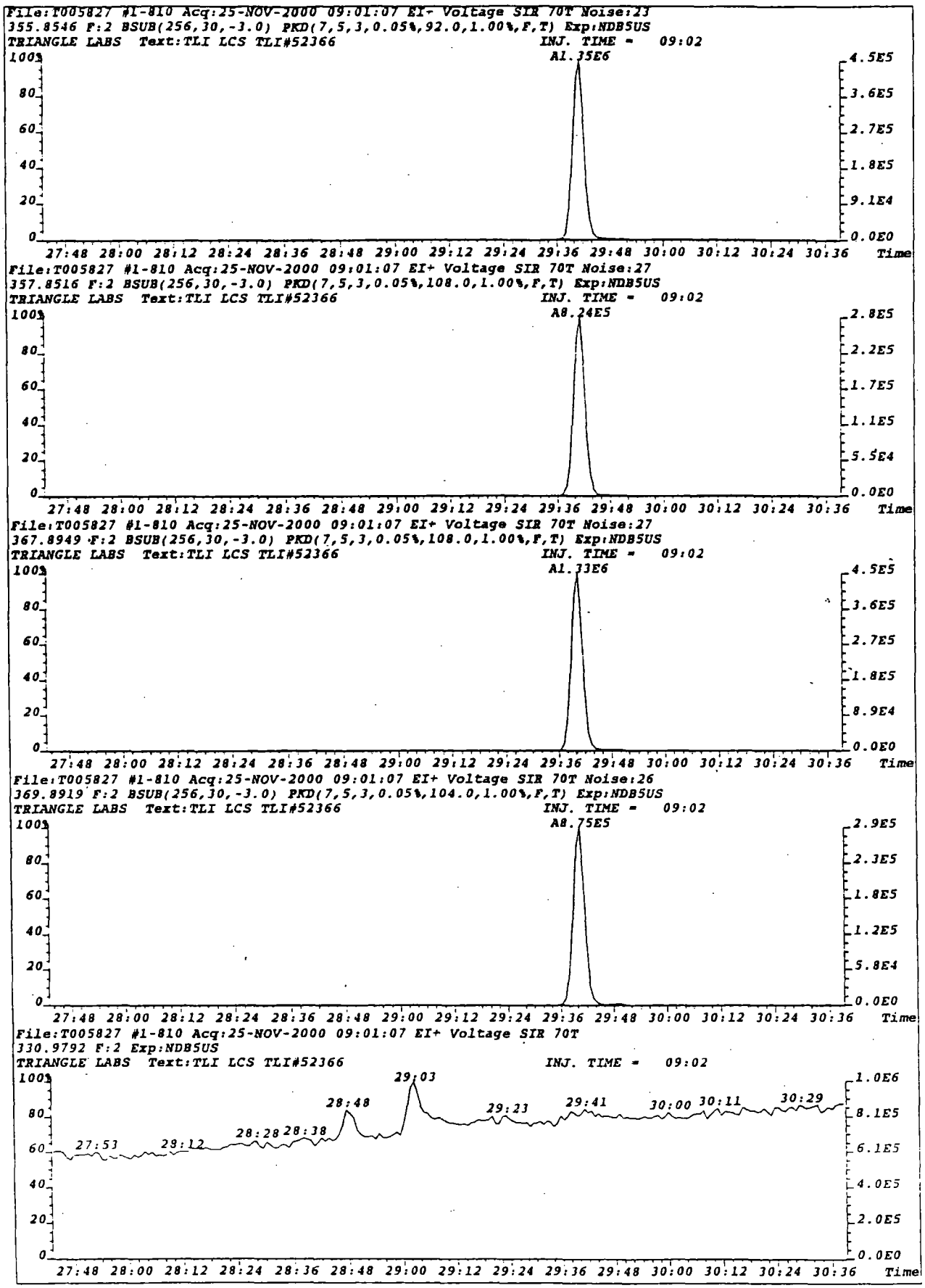
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A1.25E5
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:29
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,116.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A1.56E5
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:49
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,196.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A1.06E6
A6.24E5
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:26
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,104.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A1.31E6
A7.88E5
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:32
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,128.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A1.45E5
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
22:48
23:09
23:26
23:49
24:10
24:46
25:02
25:11
25:30
25:45
26:07
26:36
23:00
24:00
25:00
26:00
Time


File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:27
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,108.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A1.70E6
A1.97E6
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:27
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,108.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A1.08E6
A1.32E6
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:28
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,112.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A1.68E6
A2.08E6
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:29
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,116.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A1.12E6
A1.37E6
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
26:36
27:09
27:42
28:38
28:48
29:03
29:23
29:41
30:11
30:40
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
26:36
26:54
27:09
27:28
27:48
28:06
28:29
28:44
29:12
29:21
29:54
30:11
30:25
27:00
28:00
29:00
30:00
Time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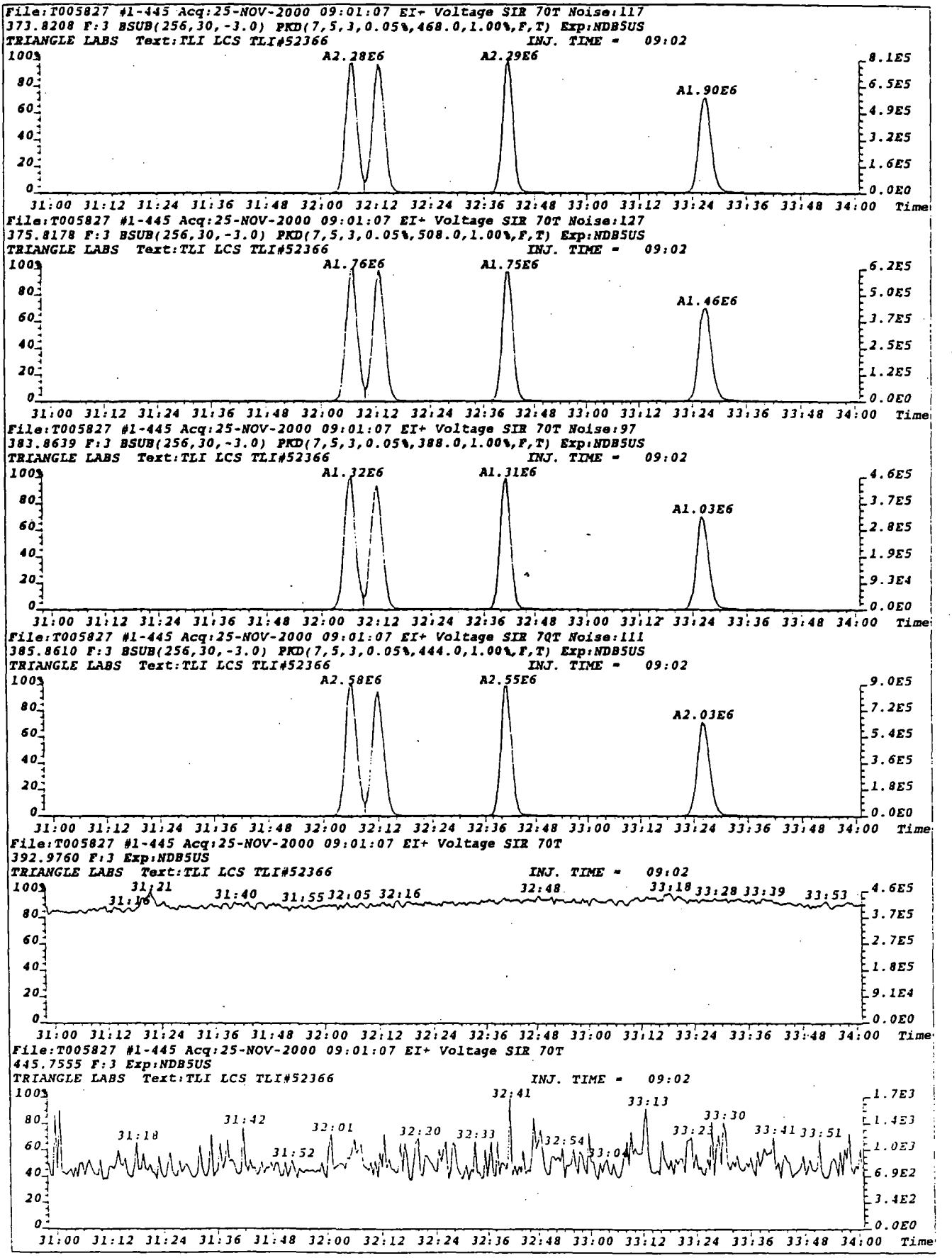
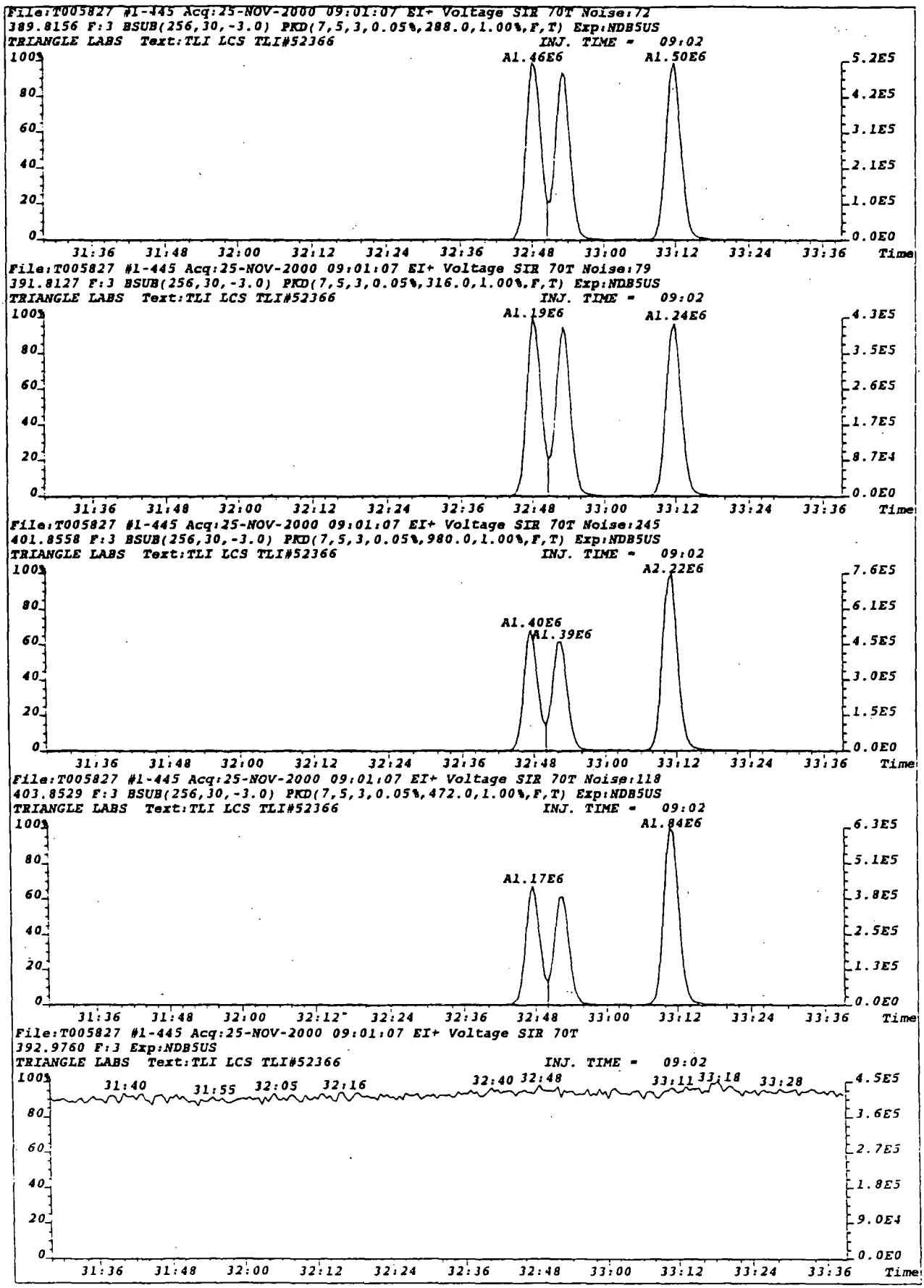
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,92.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A1.35E6
4.5E5
3.6E5
2.7E5
1.8E5
9.1E4
0.0E0
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 Time
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:27
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,108.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A8.24E5
2.8E5
2.2E5
1.7E5
1.1E5
5.5E4
0.0E0
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 Time
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:27
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,108.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A1.33E6
4.5E5
3.6E5
2.7E5
1.8E5
8.9E4
0.0E0
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 Time
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:26
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,104.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A8.75E5
2.9E5
2.3E5
1.8E5
1.2E5
5.8E4
0.0E0
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 Time
File:T005827 #1-810 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
27:53
29:12
28:28
28:38
28:48
29:03
29:23
29:41
30:00
30:11
30:29
1.0E6
8.1E5
6.1E5
4.0E5
2.0E5
0.0E0
27:48 28:00 28:12 28:24 28:36 28:48 29:00 29:12 29:24 29:36 29:48 30:00 30:12 30:24 30:36 Time


File:T005827 #1-445 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:117
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,468.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
A2.28E6
A2.29E6
A1.90E6
File:T005827 #1-445 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:127
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,508.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
A1.76E6
A1.75E6
A1.46E6
File:T005827 #1-445 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:97
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
A1.32E6
A1.31E6
A1.03E6
File:T005827 #1-445 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:111
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,444.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
A2.58E6
A2.55E6
A2.03E6
File:T005827 #1-445 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
File:T005827 #1-445 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
Time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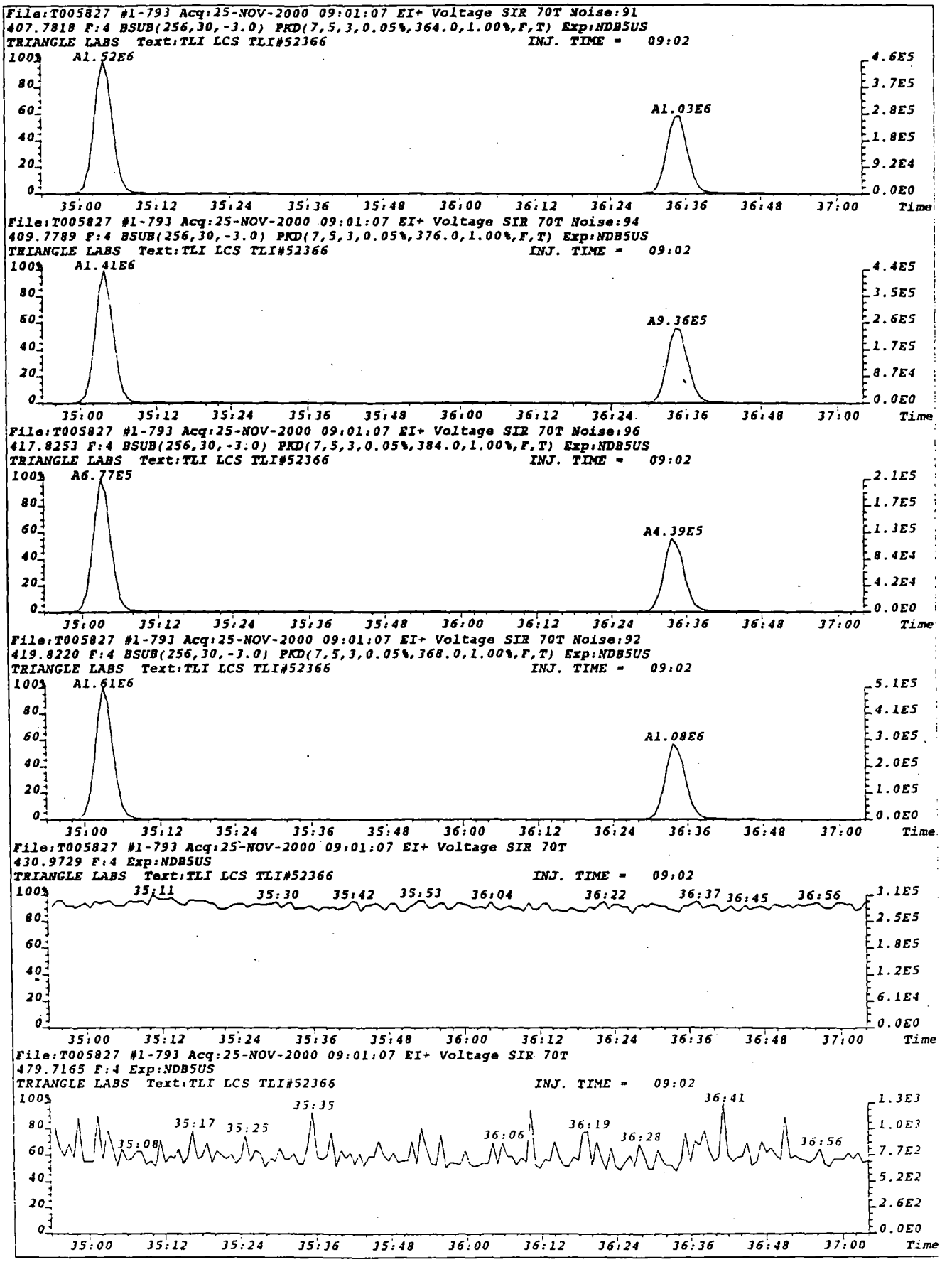
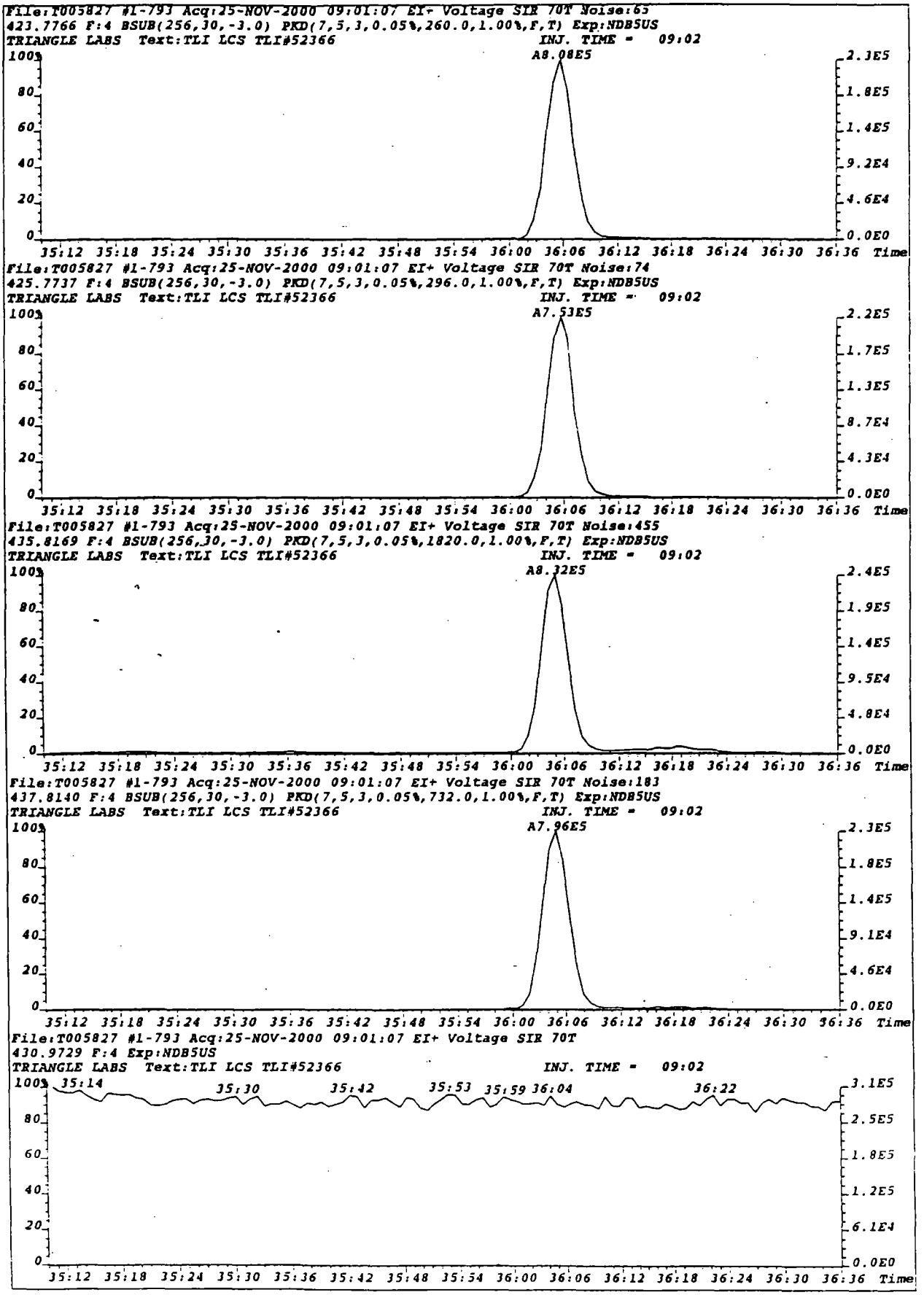
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,288.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A1.46E6
A1.50E6
File:T005827 #1-445 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:79
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A1.19E6
A1.24E6
File:T005827 #1-445 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:245
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,980.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A2.22E6
A1.40E6
A1.39E6
File:T005827 #1-445 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:118
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,472.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A1.84E6
A1.17E6
File:T005827 #1-445 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
Time


File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:91
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
A1.52E6
A1.03E6
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:94
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,376.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
A1.41E6
A9.36E5
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:96
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,384.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
A6.77E5
A4.39E5
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:92
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,368.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
A1.61E6
A1.08E6
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
Time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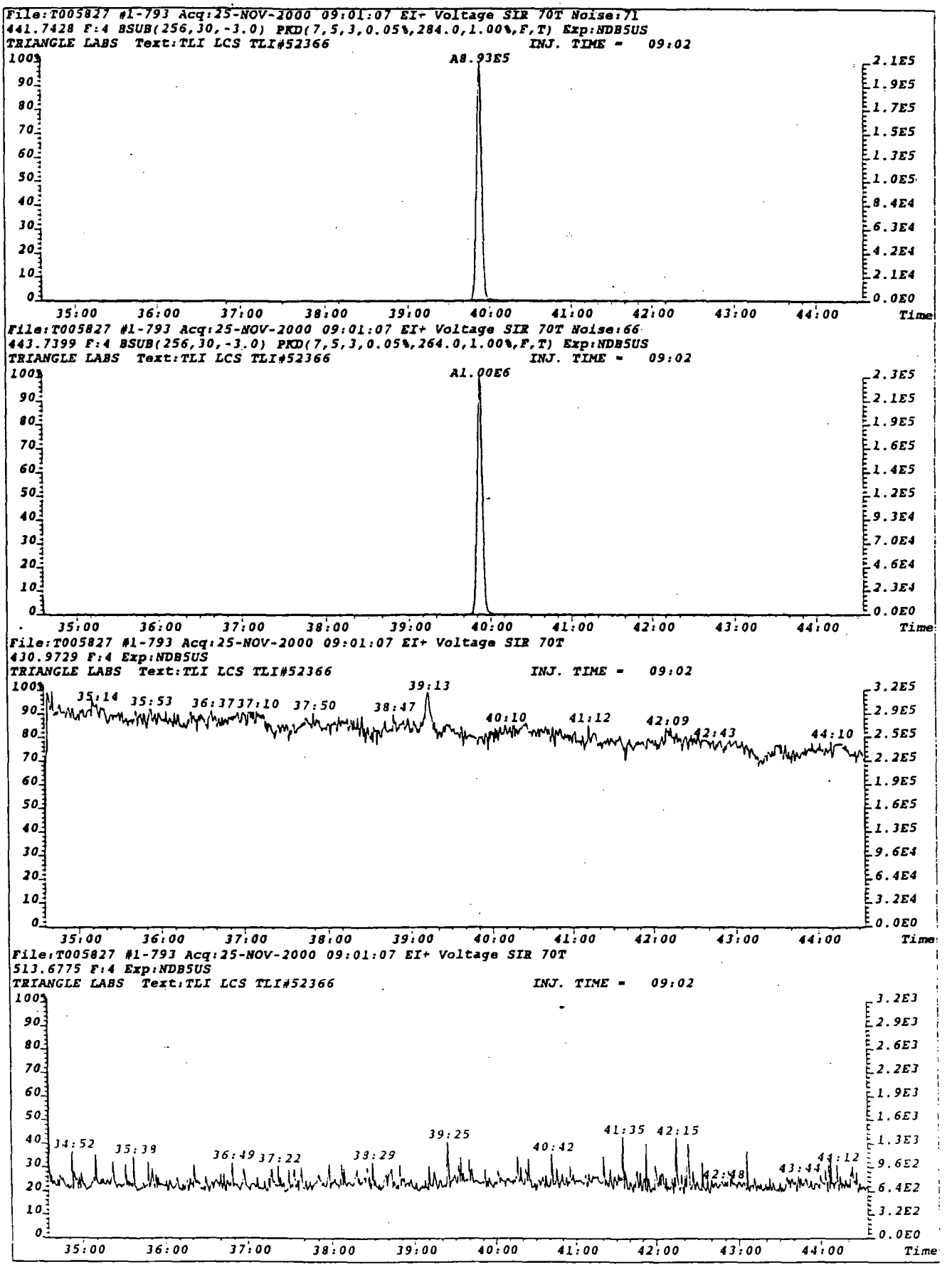
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A8.08E5
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:74
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,296.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A7.53E5
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:455
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1820.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A8.32E5
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:183
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,732.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
A7.96E5
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366
INJ. TIME = 09:02
35:14
35:30
35:42
35:53
35:59
36:04
36:22
35:12 35:18 35:24 35:30 35:36 35:42 35:48 35:54 36:00 36:06 36:12 36:18 36:24 36:30 36:36 Time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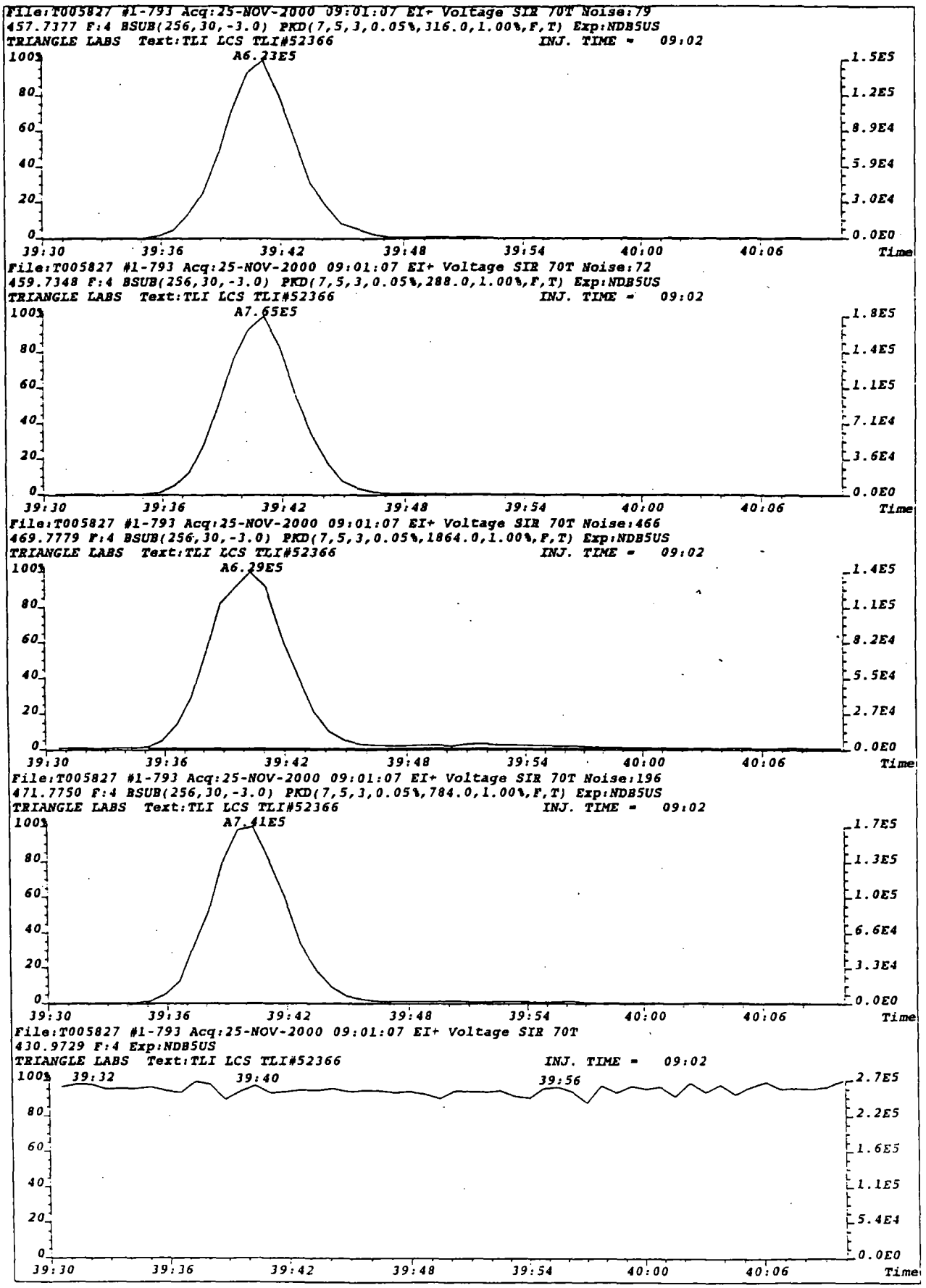
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,284.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
A8.93E5
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:66
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,264.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
A1.00E6
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
35:14 35:53 36:37 37:10 37:50 38:47 39:13 40:10 41:12 42:09 42:43 44:10
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
34:52 35:39 36:49 37:22 38:29 39:25 40:42 41:35 42:15 42:48 43:44 44:12
35:00 36:00 37:00 38:00 39:00 40:00 41:00 42:00 43:00 44:00 Time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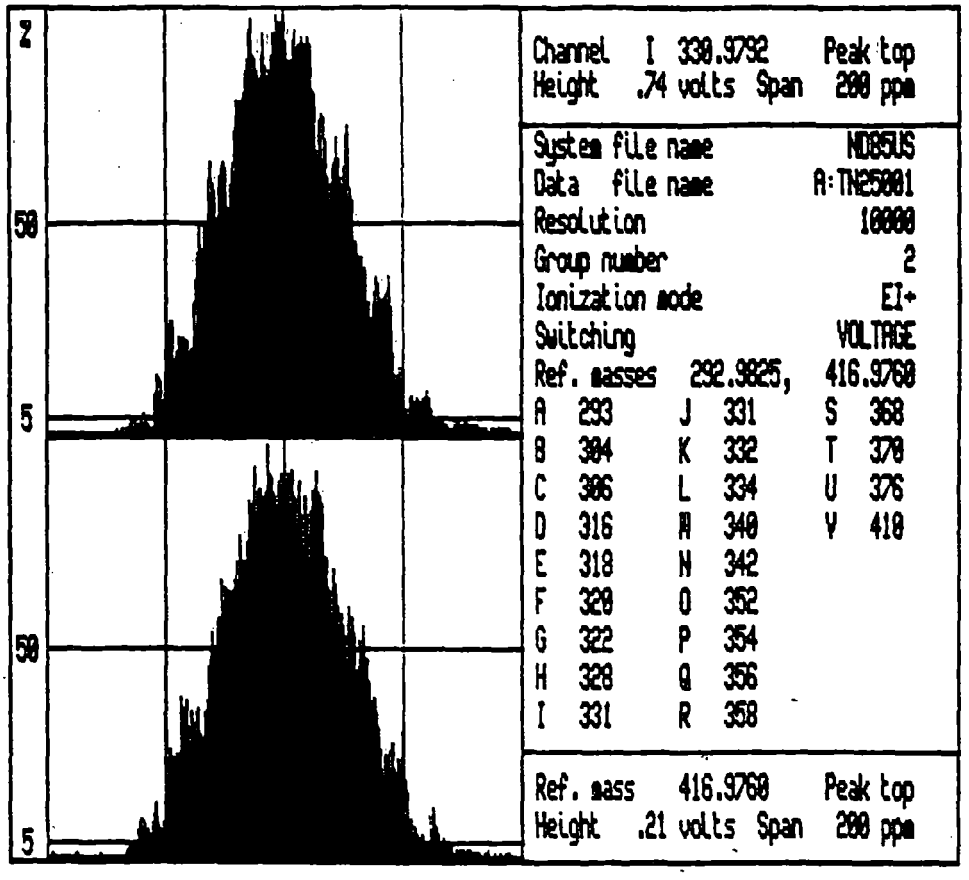
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
A6.23E5
1.5E5
1.2E5
8.9E4
5.9E4
3.0E4
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:72
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,288.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
A7.65E5
1.8E5
1.4E5
1.1E5
7.1E4
3.6E4
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:466
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1864.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
A6.29E5
1.4E5
1.1E5
8.2E4
5.5E4
2.7E4
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T Noise:196
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,784.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
A7.41E5
1.7E5
1.3E5
1.0E5
6.6E4
3.3E4
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time
File:T005827 #1-793 Acq:25-NOV-2000 09:01:07 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCS TLI#52366 INJ. TIME = 09:02
39:32 39:40 39:56
2.7E5
2.2E5
1.6E5
1.1E5
5.4E4
0.0E0
39:30 39:36 39:42 39:48 39:54 40:00 40:06 Time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50
5
50
5
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Height .74 volts Span 200 ppm
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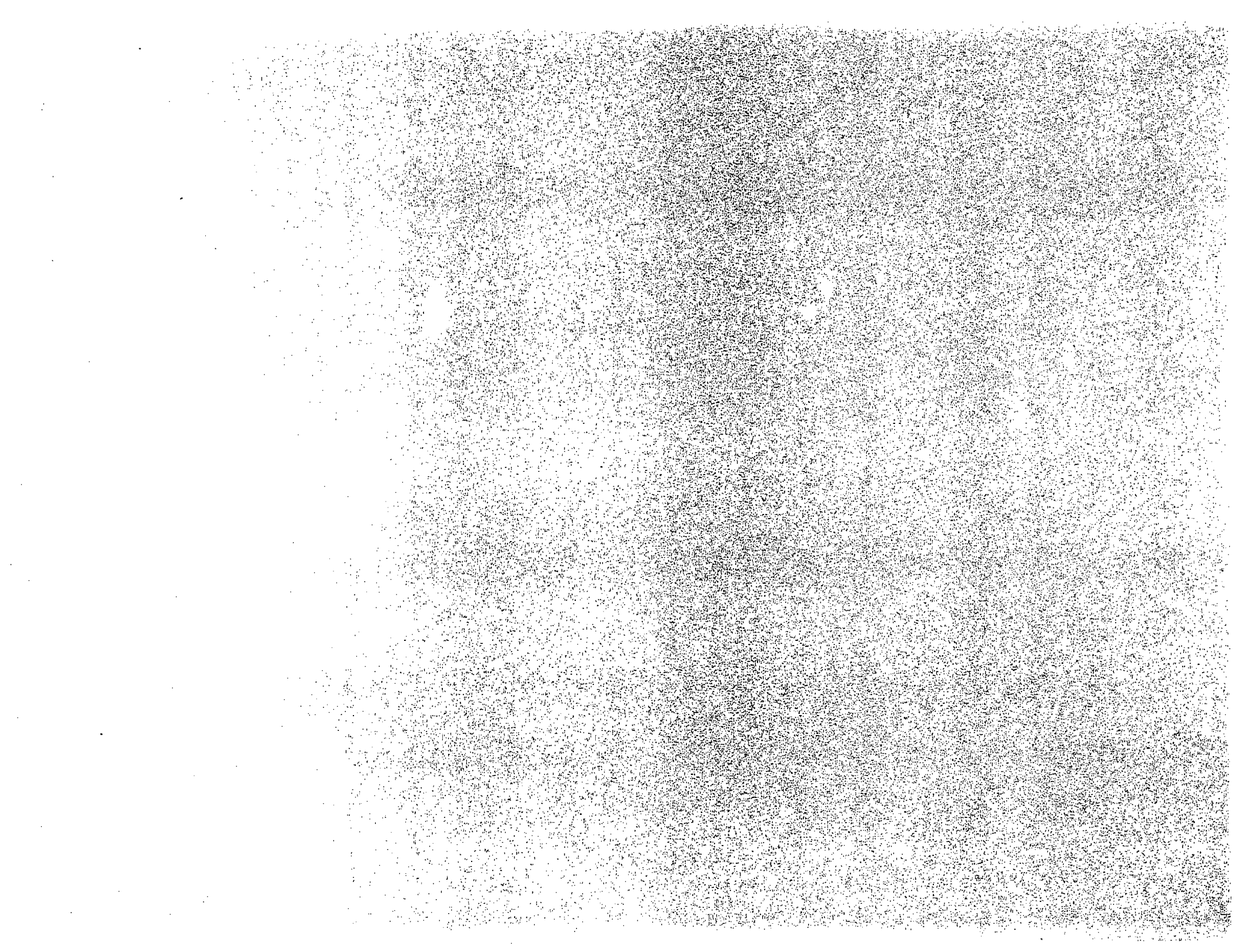
Data file name A:TN25001
Resolution 10000
Group number 2
Ionization mode EI+
Switching VOLTAGE
Ref. masses 292.9825, 416.9768
A 293 J 331 S 368
B 304 K 332 T 370
C 306 L 334 U 376
D 316 M 340 V 418
E 318 N 342
F 320 O 352
G 322 P 354
H 328 Q 356
I 331 R 358
Ref. mass 416.9768 Peak top
Height .21 volts Span 200 ppm



TriMatrix, Inc.

TLI Project: **52366** Method 8290 PCDD/PCDF Analysis (b)
Client Sample: **TLI LCSD** Analysis File: **T005828**

Client Project:	**BASF-Malcolm Pirnie**				
Sample Matrix:	**WATER**	Date Received:	/ /	Spike File:	**SPMIT32S**
TLI ID:	**TLI LCSD**	Date Extracted:	**11/21/2000**	ICal:	**TF57140**
		Date Analyzed:	**11/25/2000**	ConCal:	**T005815**
Sample Size:	**1.000 L**	Dilution Factor:	**n/a**	% Moisture:	**n/a**
Dry Weight:	**n/a**	Blank File:	**T005817**	% Lipid:	**n/a**
GC Column:	**DB-5**	Analyst:	**JMM**	% Solids:	**n/a**

Analytes	Conc. (pg/L)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDD	410			0.78	25:22	
1,2,3,7,8-PeCDD	1950			1.59	29:40	
1,2,3,4,7,8-HxCDD	2050			1.21	32:48	
1,2,3,6,7,8-HxCDD	2180			1.23	32:53	
1,2,3,7,8,9-HxCDD	2290			1.23	33:11	
1,2,3,4,6,7,8-HpCDD	2320			1.05	36:05	
1,2,3,4,6,7,8,9-OCDD	4770			0.82	39:40	
2,3,7,8-TCDF	406			0.88	24:38	
1,2,3,7,8-PeCDF	2190			1.55	28:38	
2,3,4,7,8-PeCDF	2960			1.50	29:20	
1,2,3,4,7,8-HxCDF	2060			1.31	32:06	
1,2,3,6,7,8-HxCDF	2150			1.31	32:12	
2,3,4,6,7,8-HxCDF	2660			1.31	32:41	
1,2,3,7,8,9-HxCDF	2960			1.31	33:26	
1,2,3,4,6,7,8-HpCDF	2200			1.10	35:03	
1,2,3,4,7,8,9-HpCDF	2160			1.08	36:34	
1,2,3,4,6,7,8,9-OCDF	5360			0.92	39:52	

Internal Standards	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,7,8-TCDF	1410	70.7	40%-130%	0.76	24:37	
$^{13}C_{12}$-2,3,7,8-TCDD	1540	76.9	40%-130%	0.79	25:21	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2060	103	40%-130%	1.47	28:37	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	3180	159	40%-130%	1.42	29:40	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1290	64.7	40%-130%	0.52	32:12	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1550	77.7	40%-130%	1.20	32:52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1460	73.0	25%-130%	0.42	35:02	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1200	59.9	25%-130%	1.03	36:04	
$^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD	1530	38.1	25%-130%	0.85	39:40	

MIT3_PSR v1.00, LARS 6.25 (01

Triangle Laboratories, Inc.
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Phone: (919) 544-5729 • Fax: (919) 544-5491

Printed: 18:37 11/29/2000

TLI Project: 52366 Method 8290 PCDD/PCDF Analysis (b)
Client Sample: TLI LCSD Analysis File: T005828

Surrogate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2710	135	40%-130%	1.52	29:19	—
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1270	63.4	40%-130%	0.51	32:06	—
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1460	73.2	40%-130%	1.19	32:47	—
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1440	71.9	25%-130%	0.41	36:34	—

Other Standard	Conc. (pg/L)	% Recovery	QC Limits	RT	Flags
$^{37}Cl_4$-2,3,7,8-TCDD	178	88.8	40%-130%	25:23	—

Alternate Standards (Type B)	Conc. (pg/L)	% Recovery	QC Limits	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1970	98.5	40%-130%	0.51	33:26	—
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1630	81.3	40%-130%	0.51	32:41	—

Recovery Standards	Ratio	RT	Flags
$^{13}C_{12}$-1,2,3,4-TCDD	0.84	25:10	—
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.19	33:11	—

Data Reviewer: _____ 11/29/2000

Triangle Laboratories, Inc.
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Printed: 18:37 11/29/2000

Initial ....Date...

Data Review By: JLDA 11/29/00

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 T005828B.dbf
11/29/2000 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					0.860-1.077				
304-306	DC	NL			Height			0.06	0.03	0.03				
	DC	SN			23:51	RO	1.00	0.19			0.969			
					24:15	RO	0.90	0.60	0.26	0.29	0.985	1278-TCDF	AN	J
					24:38		0.88	26.07	12.22	13.35	1.001	2378-TCDF	AN	
304-306				2	Peaks			26.67						
13C12-TCDF					0.65-0.89					0.959-1.041				
316-318	DC	NL			Height			0.06	0.03	0.03				
					24:37		0.76	125.60	54.29	71.31	1.000	13C12-2378-TCDF	IS0	
					Height			33.92	14.70	19.22				
	DC	SN			25:12	RO	1.27	0.19			1.024			
	DC	SN			25:23	RO	0.57	0.28			1.031			
316-318				1	Peak			125.60						

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

TCDD					0.65-0.89					0.890-1.045				
320-322	DC	NL			Height			0.06	0.03	0.03				
					25:22		0.78	21.02	9.22	11.80	1.001	2378-TCDD	AN	
	DC	SN			25:30		0.69	0.22			1.006			
	DC	SN			25:45	RO	1.25	0.07			1.016			
320-322				1	Peak			21.02						
37C1-TCDD										0.921-1.079				
328	DC	NL			Height			0.03	0.03					
					25:23			10.95	10.95		1.001	37C1-TCDD	CLS	
	DC	SN			25:45			0.16			1.016			
	DC	SN			25:50			0.05			1.019			
	DC	SN			25:55			0.11			1.022			
	DC	SN			26:03			0.16			1.028			
	DC	SN			26:20			0.06			1.039			
328				1	Peak			10.95						
13C12-TCDD					0.65-0.89					0.921-1.079				
332-334	DC	NL			Height			0.06	0.03	0.03				
					25:10		0.84	138.50	63.08	75.42	0.993	13C12-1234-TCDD	RS1	
					25:21		0.79	112.07	49.54	62.53	1.000	13C12-2378-TCDD	IS1	
					Height			40.68	18.01	22.67				
					25:34	RO	1.28	0.32	0.23	0.18	1.009			
	DC	SN			26:01		0.83	0.11			1.026			
					26:06	RO	1.00	0.19	0.11	0.11	1.030			
332-334				4	Peaks			251.08						

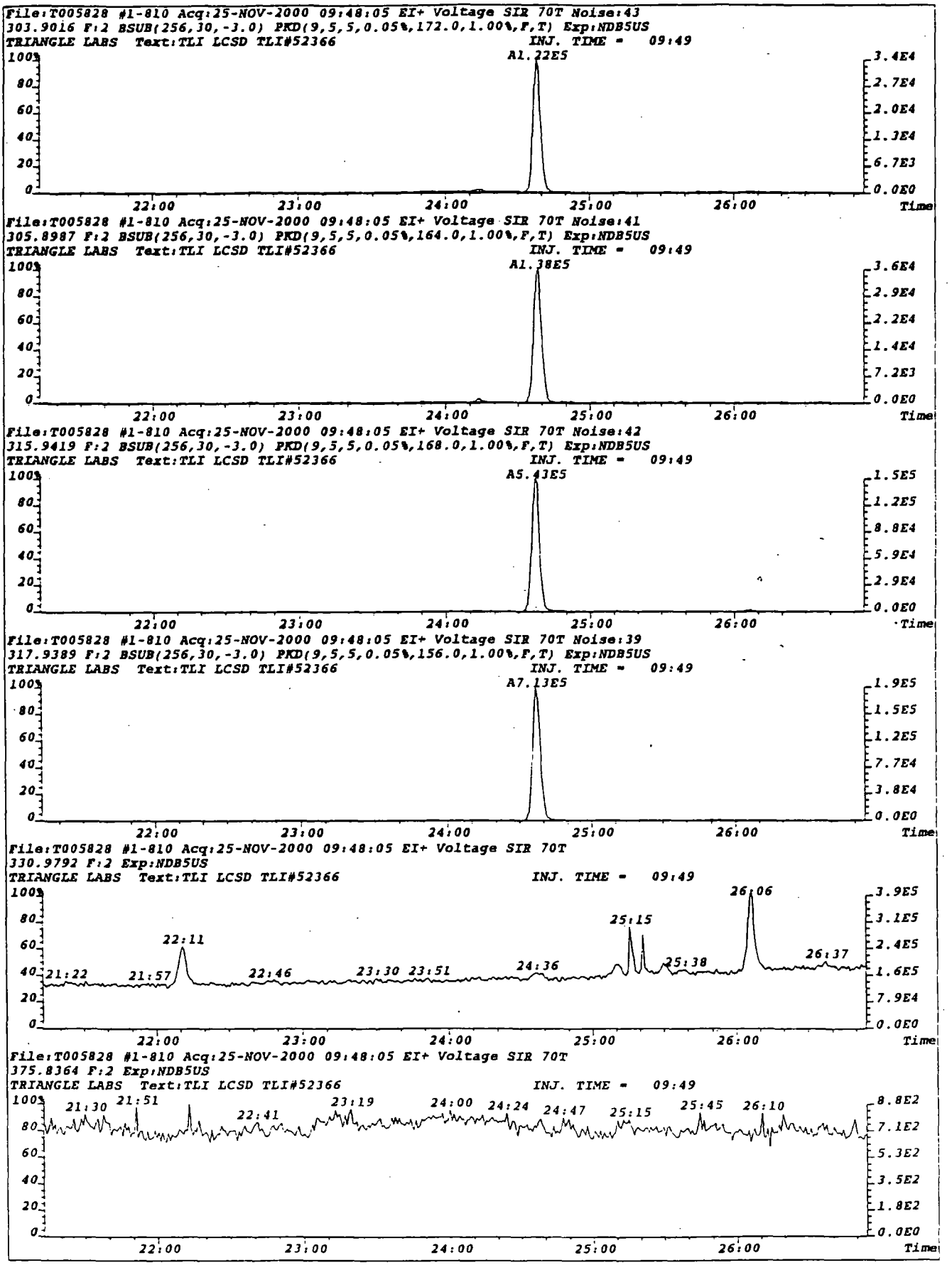
Compound/ M_Z....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
---------- Above: TCDD / PeCDF Follows ----------													
PeCDF				1.32-1.78					0.923-1.064				
340-342	DC	NL		Height			0.06	0.03	0.03				
			27:48	RO		2.24	0.54	0.47	0.21	0.971			J
			28:15			1.42	0.46	0.27	0.19	0.987			J
			28:38			1.55	170.70	103.67	67.03	1.001	12378-PeCDF	AN	
			28:48	RO		1.91	1.48	1.11	0.58	1.006			J
			28:56	RO		1.30	2.24	1.14	0.88	1.011			J
			29:01	RO		0.86	0.51	0.31	0.36	1.014			J
			29:20			1.50	234.36	140.56	93.80	1.025	23478-PeCDF	AN	
			29:29			1.53	1.90	1.15	0.75	1.030			J
			29:40	RO		3.00	0.20	0.24	0.08	1.037			J
			30:19	RO		1.12	1.50	0.66	0.59	1.059			J
340-342		10	Peaks				413.89						
13C12-PeCDF				1.32-1.78					0.860-1.140				
352-354	DC	NL		Height			0.06	0.03	0.03				
			28:37			1.47	171.09	101.95	69.14	1.000	13C12-PeCDF 123	IS2	
				Height			55.95	33.14	22.81				
			28:55	RO		2.11	0.92	0.76	0.36	1.010			
			29:19			1.52	222.63	134.15	88.48	1.024	13C12-PeCDF 234	SUR1	
			29:40	RO		0.57	0.41	0.25	0.44	1.037			
			30:18	RO		1.21	2.88	1.37	1.13	1.059			
352-354		5	Peaks				397.93						
---------- Above: PeCDF / PeCDD Follows ----------													
PeCDD				1.32-1.78					0.933-1.021				
356-358	DC	NL		Height			0.06	0.03	0.03				
	DC	SN	28:56	RO		0.90	0.15			0.975			
			29:40			1.59	154.78	95.11	59.67	1.000	12378-PeCDD	AN	
356-358		1	Peak				154.78						
13C12-PeCDD				1.32-1.78					0.865-1.135				
368-370	DC	NL		Height			0.06	0.03	0.03				
			28:35			1.38	0.62	0.36	0.26	0.963			
			28:45			1.36	0.52	0.30	0.22	0.969			
			29:40			1.42	150.17	88.12	62.05	1.000	13C12-PeCDD 123	IS3	
				Height			48.61	27.81	20.80				
368-370		3	Peaks				151.31						
---------- ----- Above: PeCDD / HxCDF Follows ----------													
HxCDF				1.05-1.43					0.961-1.046				
374-376	DC	NL		Height			0.11	0.03	0.08				
			31:17			1.12	0.70	0.37	0.33	0.972			J
			32:06			1.31	326.69	185.33	141.36	0.997	123478-HxCDF	AN	
			32:12			1.31	356.68	202.37	154.31	1.000	123678-HxCDF	AN	
	DC	SN	32:28	RO		1.88	0.36			1.008			
			32:41			1.31	399.08	226.09	172.99	1.015	234678-HxCDF	AN	
			32:53	RO		5.27	0.25	0.58	0.11	1.021			J

Compound/ M_2....	QC.Log	Omit	Why	RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
	DC	SN		33:11		1.18	0.37			1.031			
				33:26		1.31	363.25	205.99	157.26	1.038	123789-HxCDF	AN	
				33:38	RO	0.67	0.74	0.41	0.61	1.045			J
374-376			7	Peaks			1,447.39						
13C12-HxCDF					0.43-0.59					0.876-1.124			
384-386	DC	NL			Height		0.10	0.04	0.06				
				31:08	RO	0.72	0.83	0.28	0.39	0.967			
				31:16	RO	1.04	0.36	0.25	0.24	0.971			
				32:06		0.51	297.75	100.58	197.17	0.997	13C12-HxCDF 478	SUR2	
				32:12		0.52	308.66	105.60	203.06	1.000	13C12-HxCDF 678	IS4	
					Height		110.37	37.48	72.89				
				32:41		0.51	353.65	119.84	233.81	1.015	13C12-HxCDF 234	ALT2	
				32:51	RO	0.30	0.47	0.16	0.54	1.020			
				33:26		0.51	314.78	106.78	208.00	1.038	13C12-HxCDF 789	ALT1	
				33:41	RO	0.77	0.68	0.23	0.30	1.046			
	DC	SN		33:46	RO	0.18	0.21			1.049			
384-386			8	Peaks			1,277.18						
---------- Above: HxCDF / HxCDD Follows ----------													
HxCDD					1.05-1.43					0.956-1.013			
390-392	DC	NL			Height		0.05	0.02	0.03				
				32:48		1.21	241.86	132.55	109.31	0.998	123478-HxCDD	AN	
				32:53		1.23	256.56	141.60	114.96	1.001	123678-HxCDD	AN	
				33:11		1.23	272.39	150.35	122.04	1.010	123789-HxCDD	AN	
	DC	WH		33:31		1.25	0.27			1.020			
390-392			3	Peaks			770.81						
13C12-HxCDD					1.05-1.43					0.970-1.030			
402-404	DC	NL			Height		0.06	0.03	0.03				
				32:16	RO	0.76	0.85	0.47	0.62	0.982			
				32:47		1.19	226.05	122.95	103.10	0.997	13C12-HxCDD 478	SUR3	
				32:52		1.20	231.81	126.37	105.44	1.000	13C12-HxCDD 678	IS5	
					Height		83.63	45.90	37.73				
				33:11		1.19	328.50	178.84	149.66	1.010	13C12-HxCDD 789	RS2	
				33:22	RO	0.36	0.29	0.16	0.44	1.015			
				33:38		1.18	0.37	0.20	0.17	1.023			
402-404			6	Peaks			787.87						
---------- Above: HxCDD / HpCDF Follows ----------													
HpCDF					0.88-1.20					0.995-1.043			
408-410	DC	NL			Height		0.11	0.06	0.05				
				35:03		1.10	320.93	167.95	152.98	1.000	1234678-HpCDF	AN	
				35:29	RO	1.66	0.59	0.48	0.29	1.013			J
				36:34		1.08	243.18	126.38	116.80	1.044	1234789-HpCDF	AN	
	DC	WH		36:51	RO	0.59	0.26			1.052			
408-410			3	Peaks			564.70						
13C12-HpCDF					0.37-0.51					0.943-1.114			
418-420	DC	NL			Height		0.08	0.04	0.04				

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.
				35:02		0.42	232.51	68.32	164.19	1.000	13C12-HpCDF 678	IS6	
						Height	72.87	21.40	51.47				
				36:34		0.41	178.21	52.11	126.10	1.044	13C12-HpCDF 789	SUR4	
418-420			2 Peaks				410.72						
---------- Above: HpCDF / HpCDD Follows ----------													
HpCDD						0.88-1.20					0.974-1.005		
424-426	DC	NL				Height	0.08	0.04	0.04				
				36:05		1.05	167.29	85.83	81.46	1.000	1234678-HpCDD	AN	
424-426			1 Peak				167.29						
13C12-HpCDD						0.88-1.20					0.972-1.028		
436-438	DC	NL				Height	0.08	0.05	0.03				
				35:20	RO	0.76	0.31	0.16	0.21	0.980			
				36:04		1.03	168.86	85.80	83.06	1.000	13C12-HpCDD 678	IS7	
						Height	49.35	25.39	23.96				
	DC	SN		36:37		1.00	0.10			1.015			
436-438			2 Peaks				169.17						
---------- Above: HpCDD / Octa-CDD and CDF Follows ----------													
OCDF						0.76-1.02					0.899-1.101		
442-444	DC	NL				Height	0.06	0.03	0.03				
				39:52		0.92	257.64	123.20	134.44	1.005	OCDF	AN	
	DC	SN		41:13	RO	1.13	0.15			1.039			
442-444			1 Peak				257.64						
OCDD						0.76-1.02					0.899-1.101		
458-460	DC	NL				Height	0.07	0.03	0.04				
				39:40		0.82	190.68	85.82	104.86	1.000	OCDD	AN	
				39:56	RO	1.37	0.36	0.26	0.19	1.007			
458-460			2 Peaks				191.04						
13C12-OCDD						0.76-1.02					0.996-1.004		
470-472	DC	NL				Height	0.07	0.04	0.03				
				39:40		0.85	174.93	80.38	94.55	1.000	13C12-OCDD	IS8	
						Height	40.95	18.98	21.97				
470-472			1 Peak				174.93						

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 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A1.22E5
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:41
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,164.0,1.00%,F,T) Exp:NDB5US
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INJ. TIME = 09:49
A1.38E5
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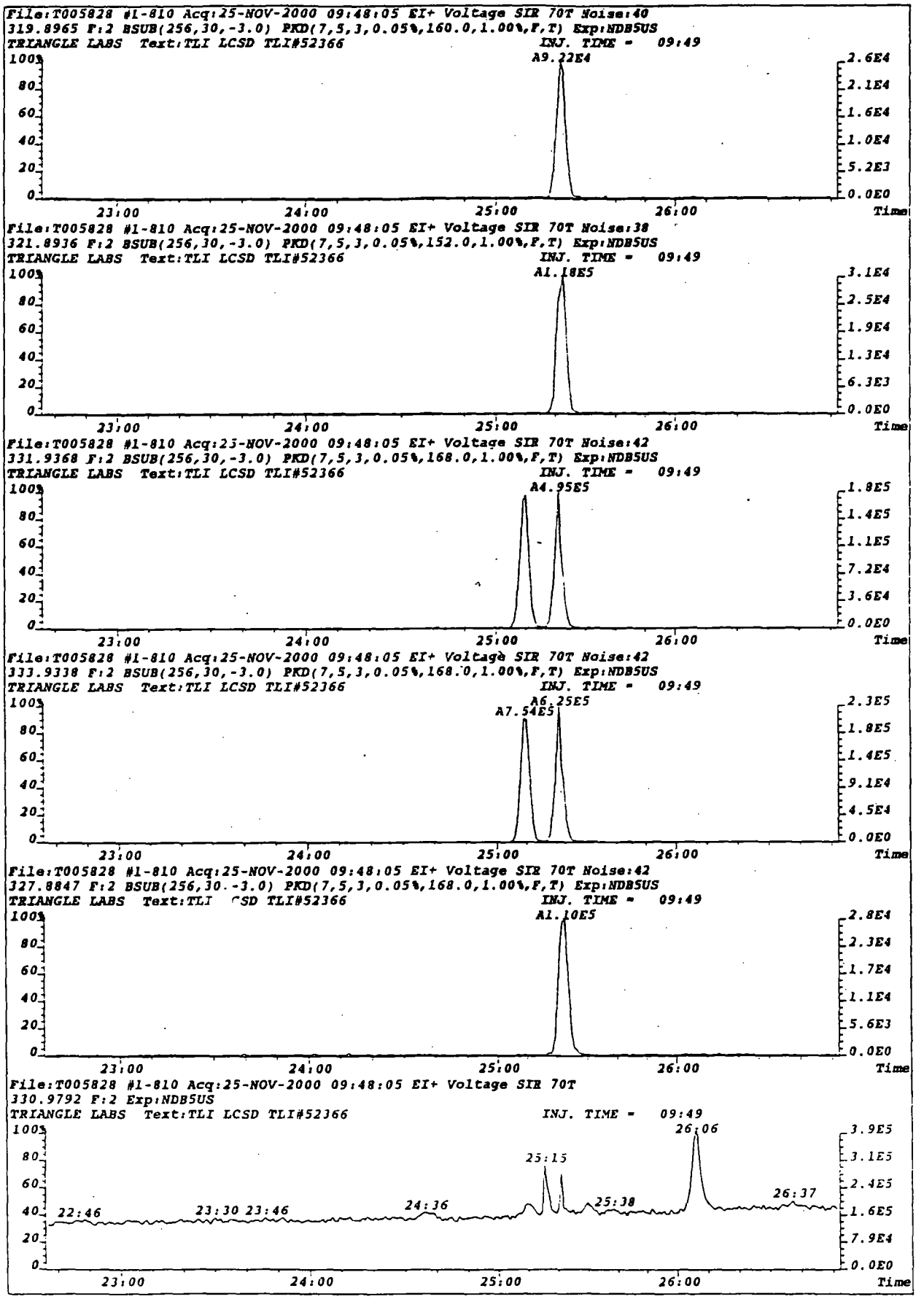
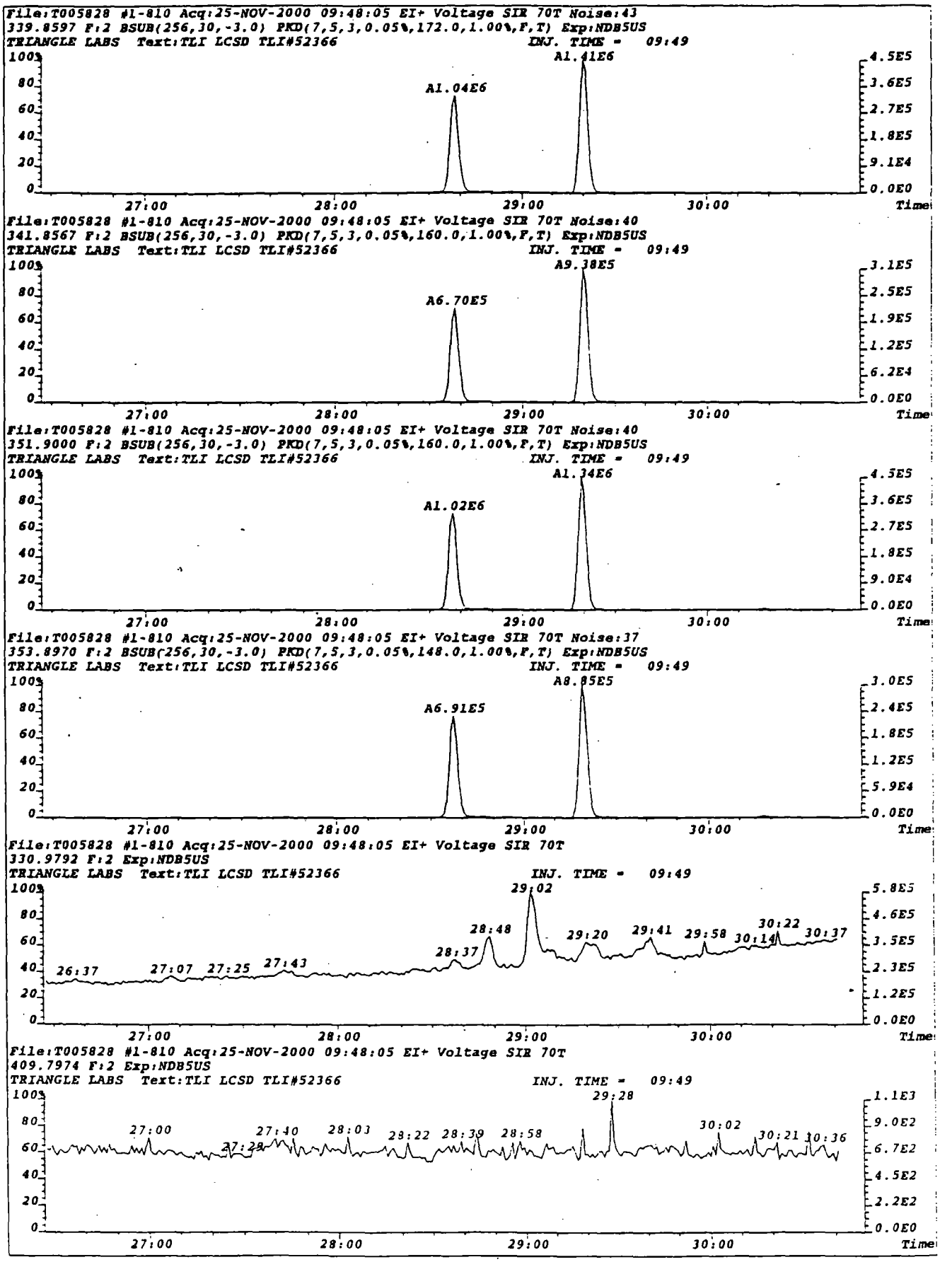
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,168.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A5.43E5
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:39
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A7.13E5
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
21:22
21:57
22:11
22:46
23:30
23:51
24:36
25:15
25:38
26:06
26:37
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
21:30
21:51
22:41
23:19
24:00
24:24
24:47
25:15
25:45
26:10
Time


File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:40
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A9.22E4
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:38
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,152.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A1.18E5
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:42
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,168.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A4.95E5
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:42
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,168.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A6.25E5
A7.54E5
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:42
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,168.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A1.10E5
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
22:46
23:30
23:46
24:36
25:15
25:38
26:06
26:37
23:00
24:00
25:00
26:00
Time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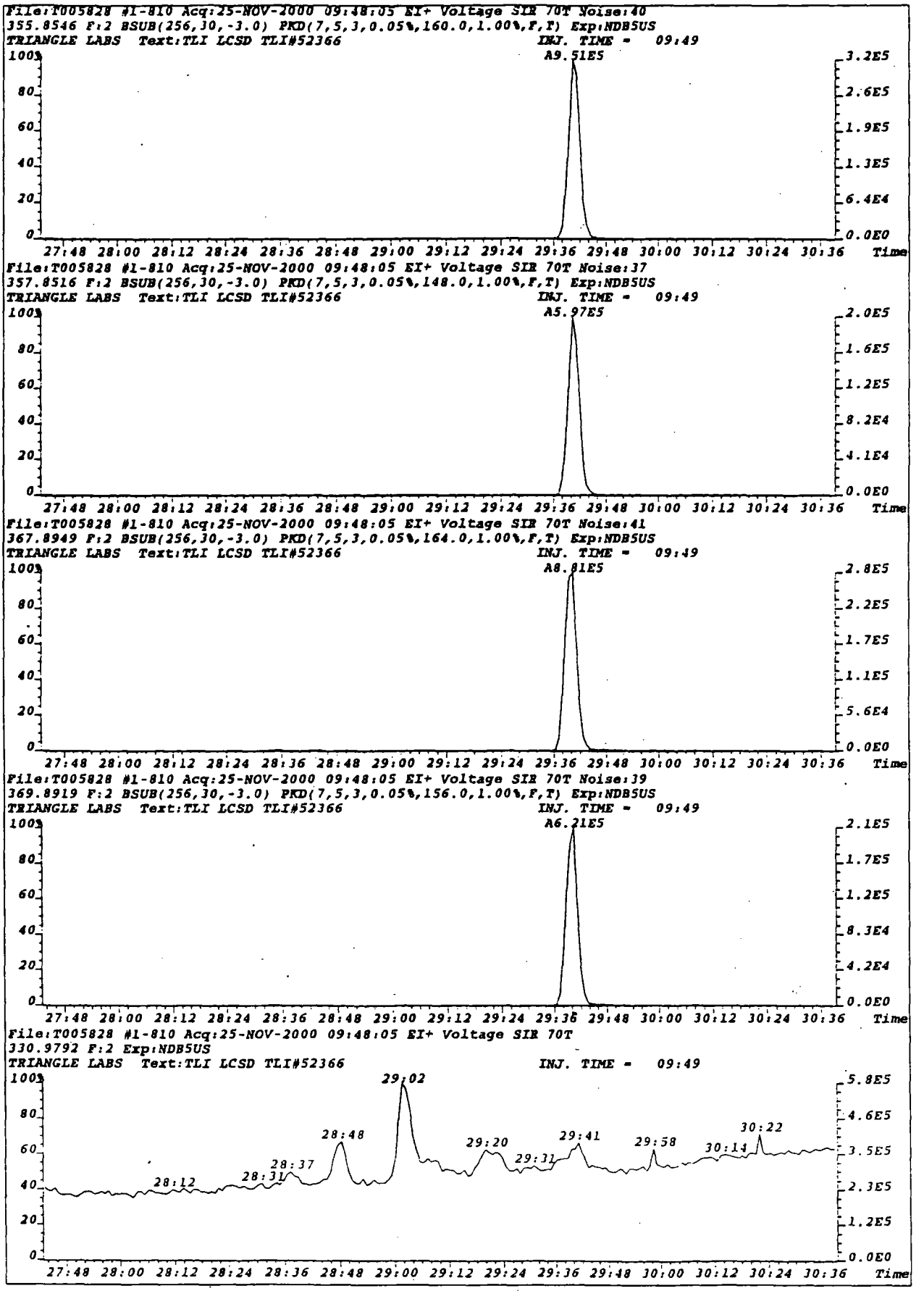
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A1.04E6
A1.41E6
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:40
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A6.70E5
A9.38E5
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:40
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A1.02E6
A1.34E6
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:37
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A6.91E5
A8.85E5
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
26:37
27:07
27:25
27:43
28:37
28:48
29:02
29:20
29:41
29:58
30:14
30:22
30:37
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
27:00
27:40
27:29
28:03
28:22
28:39
28:58
29:28
30:02
30:21
30:36
27:00
28:00
29:00
30:00
Time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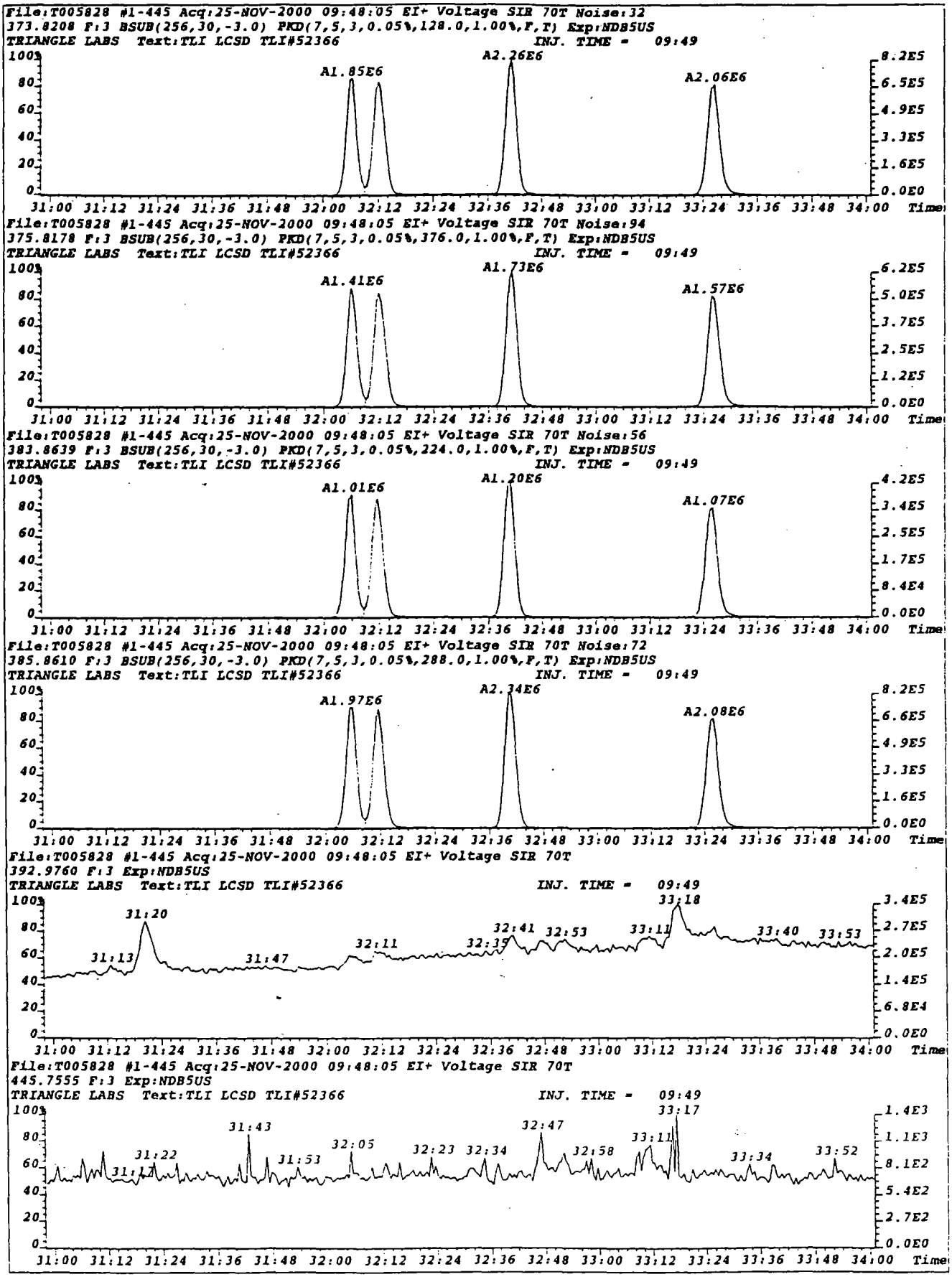
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A9.51E5
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:37
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A5.97E5
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:41
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,164.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A8.81E5
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:39
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A6.21E5
File:T005828 #1-810 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
28:12
28:31
28:37
28:48
29:02
29:20
29:31
29:41
29:58
30:14
30:22
Time


File:T005828 #1-445 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:32
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,128.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
A1.85E6
A2.26E6
A2.06E6
File:T005828 #1-445 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:94
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,376.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
A1.41E6
A1.73E6
A1.57E6
File:T005828 #1-445 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:56
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,224.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
A1.01E6
A1.20E6
A1.07E6
File:T005828 #1-445 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:72
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,288.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
A1.97E6
A2.34E6
A2.08E6
File:T005828 #1-445 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
31:13
31:20
31:47
32:11
32:35
32:41
32:53
33:11
33:18
33:40
33:53
File:T005828 #1-445 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
31:22
31:43
31:53
32:05
32:23
32:34
32:47
32:58
33:11
33:17
33:34
33:52
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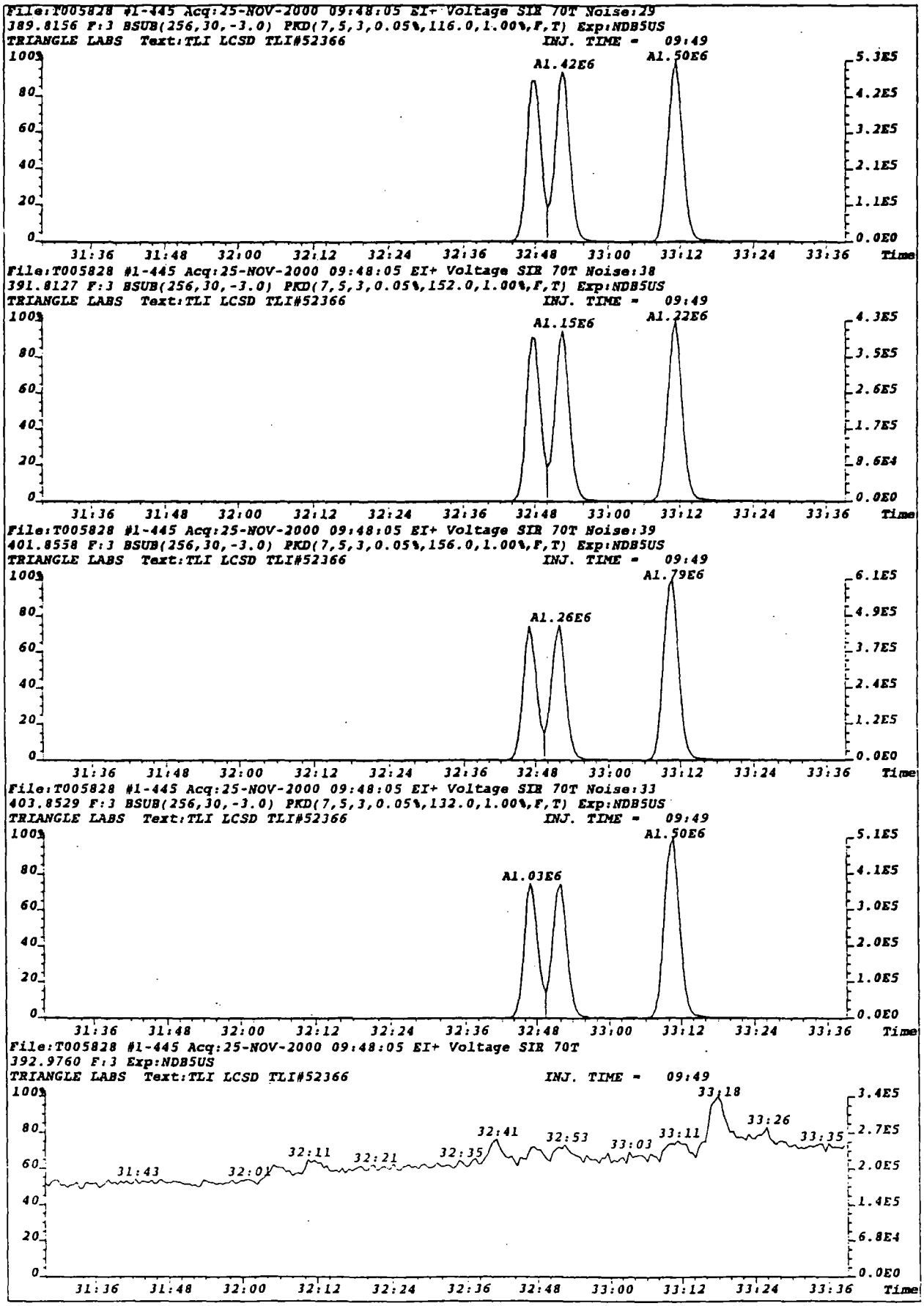
File:T005828 #1-445 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:29
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,116.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A1.42E6
A1.50E6
File:T005828 #1-445 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:38
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,152.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A1.15E6
A1.22E6
File:T005828 #1-445 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:39
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A1.26E6
A1.79E6
File:T005828 #1-445 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:33
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,132.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A1.03E6
A1.50E6
File:T005828 #1-445 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
31:43
32:01
32:11
32:21
32:35
32:41
32:53
33:03
33:11
33:18
33:26
33:35
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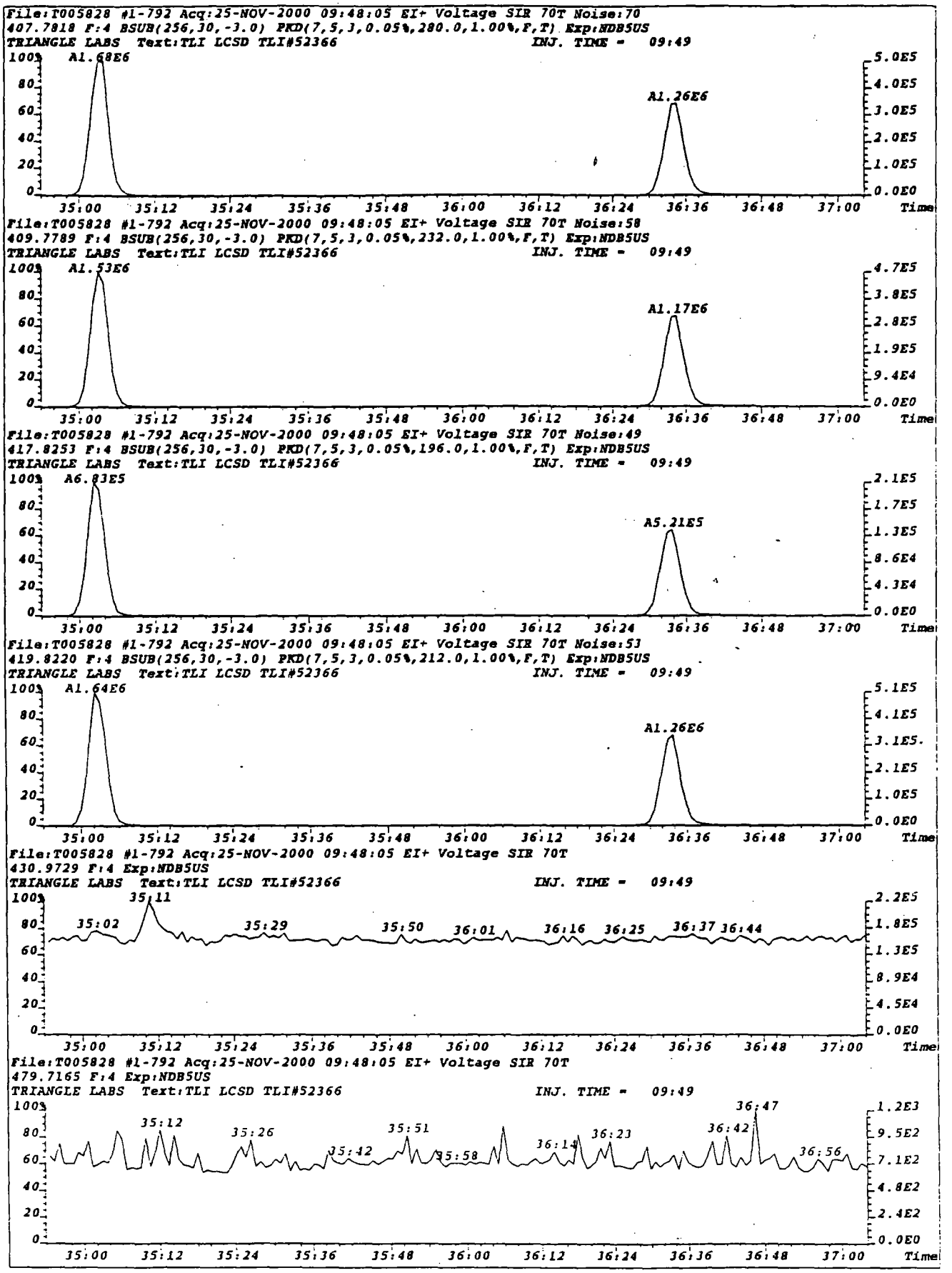
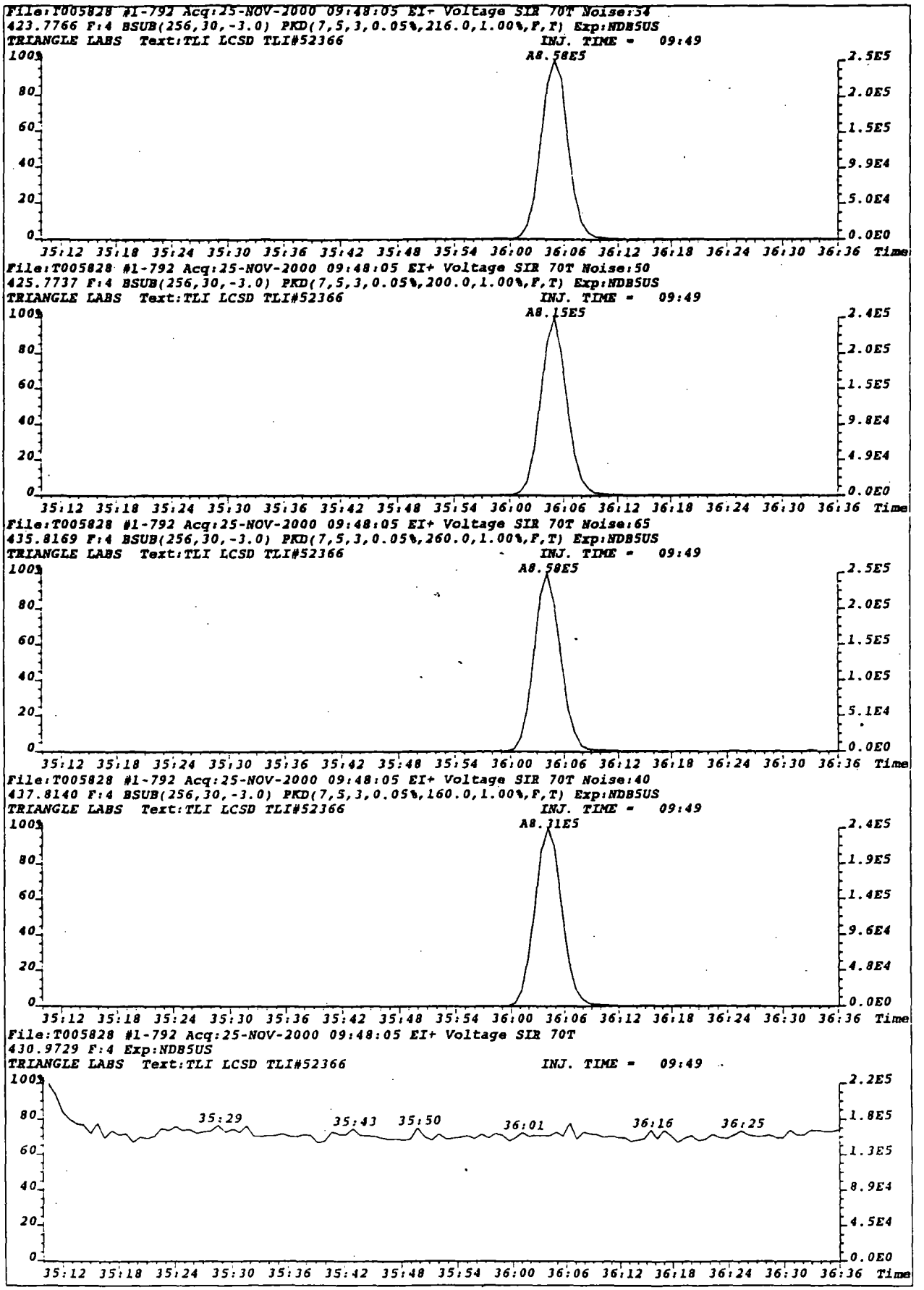
33:12
33:24
33:36
Time


File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:70
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,280.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
A1.68E6
A1.26E6
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:58
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
A1.53E6
A1.17E6
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:49
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,196.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
A6.83E5
A5.21E5
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:53
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,212.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
A1.64E6
A1.26E6
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
35:11
35:02
35:29
35:50
36:01
36:16
36:25
36:37
36:44
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
36:47
35:12
35:26
35:51
35:42
35:58
36:14
36:23
36:42
36:56
35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 36:36 36:48 37:00 Time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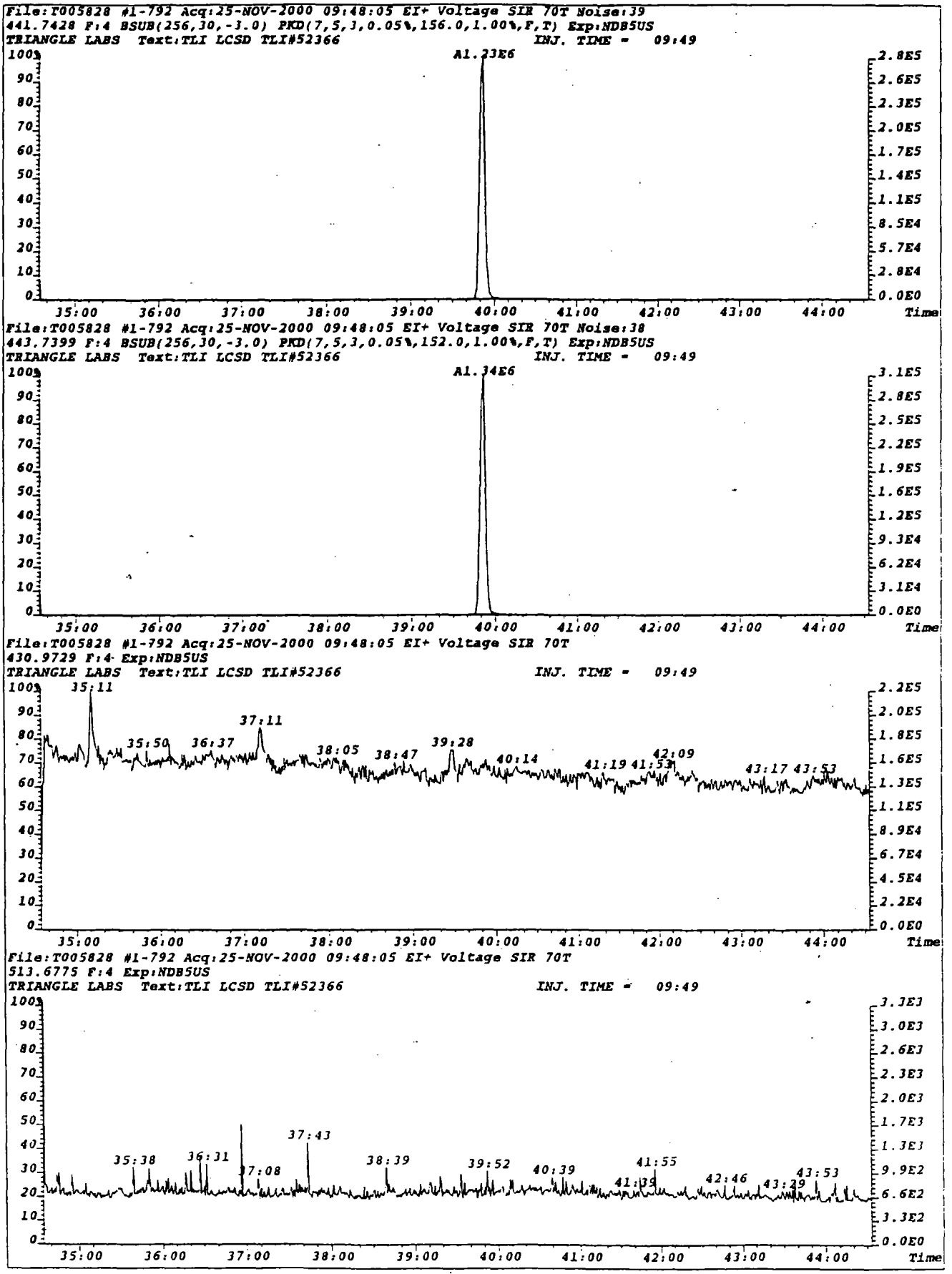
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,216.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A8.58E5
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:50
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A8.15E5
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:65
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A8.58E5
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:40
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,160.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A8.31E5
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
35:29
35:43
35:50
36:01
36:16
36:25
35:12 35:18 35:24 35:30 35:36 35:42 35:48 35:54 36:00 36:06 36:12 36:18 36:24 36:30 36:36 Time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441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,156.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A1.23E6
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:38
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,152.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
A1.34E6
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
35:11
37:11
35:50
36:37
38:05
38:47
39:28
40:14
41:19
41:53
42:09
43:17
43:53
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366
INJ. TIME = 09:49
37:43
35:38
36:31
37:08
38:39
39:52
40:39
41:55
41:39
42:46
43:29
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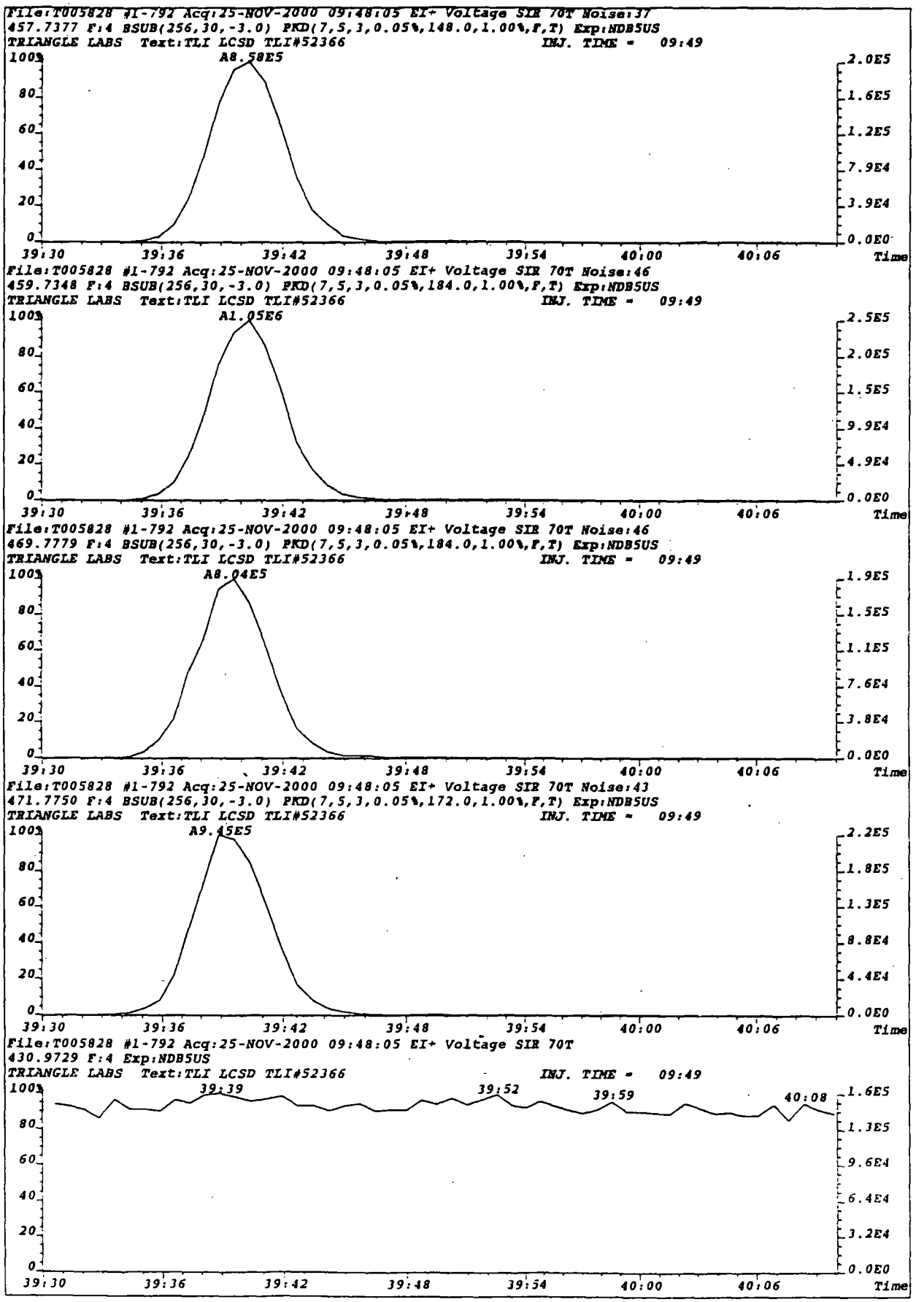
Time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457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,148.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
A8.58E5
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:46
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,184.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
A1.05E6
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:46
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,184.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
A8.04E5
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T Noise:43
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,172.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
A9.15E5
File:T005828 #1-792 Acq:25-NOV-2000 09:48:05 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI LCSD TLI#52366 INJ. TIME = 09:49
39:39
39:52
39:59
40:08
100%
80
60
40
20
0
39:30
39:36
39:42
39:48
39:54
40:00
40:06
Time
2.0E5
1.6E5
1.2E5
7.9E4
3.9E4
0.0E0
2.5E5
2.0E5
1.5E5
9.9E4
4.9E4
0.0E0
1.9E5
1.5E5
1.1E5
7.6E4
3.8E4
0.0E0
2.2E5
1.8E5
1.3E5
8.8E4
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1.3E5
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3.2E4
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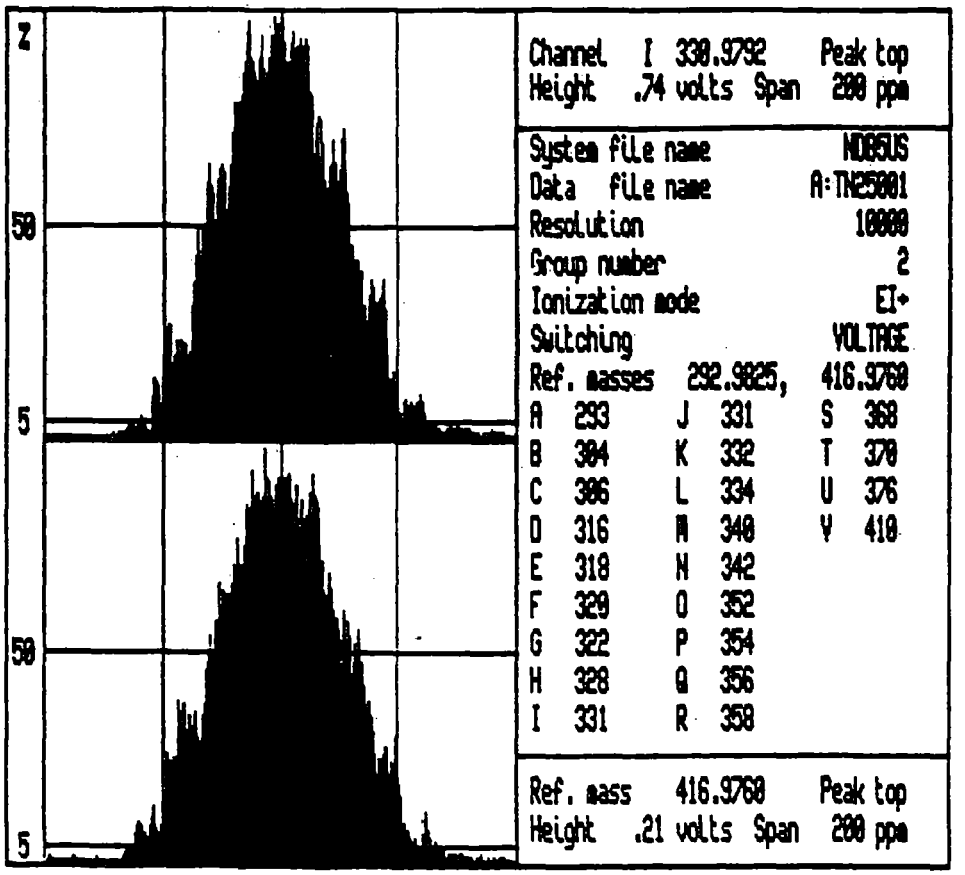
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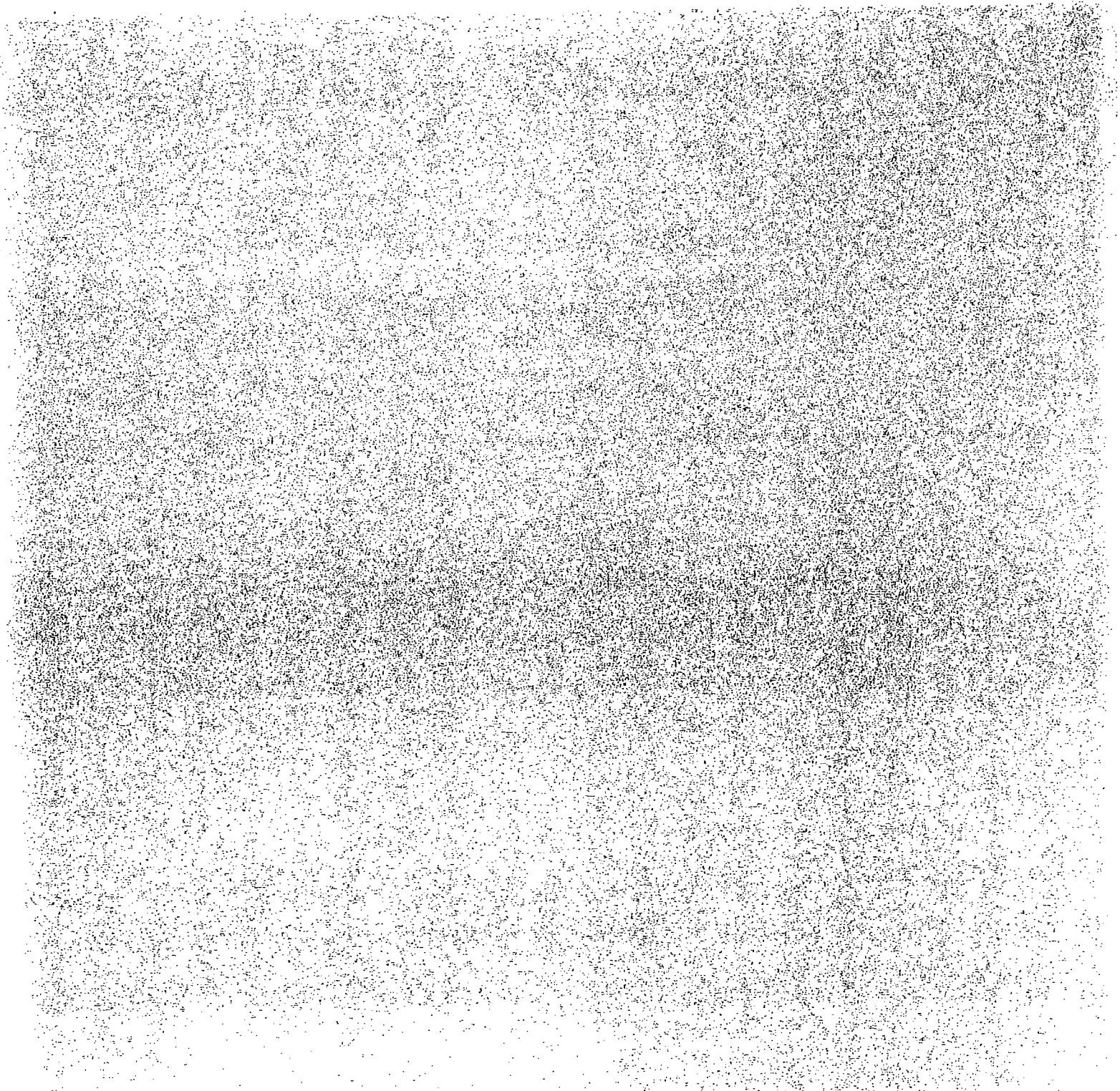
50
5
50
5
Channel I 330.9792 Peak top
Height .74 volts Span 200 ppm
System file name MOSUS
Data file name A:TN25001
Resolution 10000
Group number 2
Ionization mode EI+
Switching VOLTAGE
Ref. masses 292.9825, 416.9760
A 293 J 331 S 368
B 304 K 332 T 370
C 306 L 334 U 376
D 316 M 340 V 410
E 318 N 342
F 329 O 352
G 322 P 354
H 328 Q 356
I 331 R 358
Ref. mass 416.9760 Peak top
Height .21 volts Span 200 ppm



TRIANGLE LABS

CALIBRATION DATA

Triangle Laboratories, Inc.
801 Capitola Drive
Durham, NC 27713-4411
919-544-5729
P.O. Box 13485
Research Triangle Park, NC 27709-3485
Fax # 919-544-5491

TRIANGLE LABORATORIES, INC. Date: 07/15/2000

Initial Calibration Summary for TF57140

Analysis Date....: 07/14/2000 Method.....: MIT3

Instrument.....: T

Analytes	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
Total MCDF	1.885	0.000	0%	10:39	6:25	20:25	3.255		1
Total MCDD	1.869	0.000	0%	11:19	7:05	21:05	3.153		1
Total DCDF	0.542	0.000	0%	14:32	13:25	21:25	6.472		1
Total DCDD	0.944	0.000	0%	15:21	14:05	22:05	1.551		1
Total TriCDF	0.785	0.000	0%	20:23	17:25	24:25	0.984		1
Total TriCDD	0.524	0.000	0%	20:29	19:05	25:05	0.949		1
1368-TCDF	1.203	0.050	4%	23:30	25:25	32:25	0.792		6
1278-TCDF	1.051	0.047	4%	26:04			0.799		6
2378-TCDF	1.023	0.028	3%	26:26			0.772		6
TOTAL TCDF	1.023	0.028	3%				0.788		6
1368-TCDD	0.938	0.036	4%	24:43	26:05	33:05	0.788		6
1379-TCDD	0.798	0.024	3%	25:05			0.783		6
2378-TCDD	0.914	0.025	3%	27:06			0.780		6
TOTAL TCDD	0.914	0.025	3%				0.783		6
12378-PeCDF	0.912	0.023	3%	30:12	26:11	34:11	1.508		6
23478-PeCDF	0.925	0.021	2%	30:52			1.499		6
TOTAL PeCDF	0.918	0.019	2%				1.504		6
12378-PeCDD	1.056	0.009	1%	31:12	27:11	35:11	1.602		6
TOTAL PeCDD	1.056	0.009	1%				1.602		6
123478-HxCDF	1.026	0.009	1%	33:36	29:41	37:41	1.262		6
123678-HxCDF	1.075	0.014	1%	33:42			1.266		6
234678-HxCDF	0.972	0.024	2%	34:13			1.262		6
123789-HxCDF	0.795	0.055	7%	35:02			1.262		6
TOTAL HxCDF	0.967	0.020	2%				1.263		6
123478-HxCDD	1.017	0.022	2%	34:19	30:24	38:24	1.244		6
123678-HxCDD	1.016	0.026	3%	34:24			1.233		6
123789-HxCDD	1.027	0.052	5%	34:45			1.230		6
TOTAL HxCDD	1.020	0.032	3%				1.235		6
1234678-HpCDF	1.255	0.016	1%	36:47	32:47	40:47	1.041		6
1234789-HpCDF	0.969	0.076	8%	38:28			1.041		6
TOTAL HpCDF	1.112	0.041	4%				1.041		6
1234678-HpCDD	0.855	0.012	1%	37:54	33:53	41:53	1.031		6
TOTAL HpCDD	0.855	0.012	1%				1.031		6
OCDF	1.100	0.095	9%	42:08	37:53	45:53	0.897		6
OCDD	0.914	0.015	2%	41:54	37:53	45:53	0.852		6

Other Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
37Cl-TCDD	0.846	0.021	2%	27:06	25:05	29:05			6
13C12-PeCDF 234	0.990	0.020	2%	30:51	28:11	32:11	1.471		6
13C12-HxCDF 478	0.985	0.015	2%	33:35			0.506		6
13C12-HxCDF 234	0.912	0.018	2%	34:12			0.505		6
13C12-HxCDF 789	0.670	0.041	6%	35:02			0.503		6
13C12-HxCDD 478	1.035	0.028	3%	34:18			1.195		6
13C12-HpCDF 789	0.778	0.043	6%	38:27	34:47	40:47	0.414		6

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TRIANGLE LABORATORIES, INC. Date: 07/15/2000

Initial Calibration Summary for TF57140

Internal Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-2378-TCDF	1.282	0.051	4%	26:25	25:25	27:25	0.728		6
13C12-2378-TCDD	1.052	0.040	4%	27:05	25:05	29:05	0.796		6
13C12-PeCDF 123	1.199	0.133	11%	30:11	26:11	34:11	1.472		6
13C12-PeCDD 123	0.682	0.075	11%	31:11	27:11	35:11	1.397		6
13C12-HxCDF 678	1.452	0.062	4%	33:41	29:41	37:41	0.504		6
13C12-HxCDD 678	0.908	0.038	4%	34:24	33:24	35:24	1.214		6
13C12-HpCDF 678	0.970	0.014	1%	36:47	34:47	40:47	0.416		6
13C12-HpCDD 678	0.858	0.032	4%	37:53	36:53	38:53	1.021		6
13C12-OCDD	0.698	0.054	8%	41:53	39:53	43:53	0.851		6

Recovery Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-1234-TCDD	1.000	0.000	0%	26:55			0.810		6
13C12-HxCDD 789	1.000	0.000	0%	34:44			1.204		6

*** End of Report ***

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TRIANGLE LABORATORIES, INC. Date: 10/24/2000

Initial Calibration Summary for PF20230

Analysis Date....: 10/23/2000 Method.....: C2NF

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

Analytes	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
2378-TCDF	0.947	0.099	10%	23:51	16:49	27:49	0.767		10
TOTAL TCDF	0.947	0.099	10%				0.767		10
2378-TCDD	0.965	0.125	13%	22:20	18:19	26:19	0.778		10
TOTAL TCDD	0.965	0.125	13%				0.778		10

Other Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
37Cl-TCDD	0.992	0.030	3%	22:20	20:19	24:19			10

Internal Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-2378-TCDF	1.565	0.032	2%	23:49	22:49	24:49	0.793		10
13C12-2378-TCDD	1.104	0.026	2%	22:19	20:19	24:19	0.799		10

Recovery Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-1234-TCDD	1.000	0.000	0%	22:38			0.812		10

*** End of Report ***

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Printed: 05:09 10/24/2000

Date: 11/25/2000 TRIANGLE LABORATORIES, INC.

Continuing Calibration for T005815

Analysis Date....: 11/24/2000 Method.....: MIT3
Operator.....: MVL Instrument..: T
Init Calibration.: TF57140 Std.Conc....: 10.00
ICal Date.....: 07/14/2000

Analyte Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
Total MCDF	0.000		4:40 18:40			1.885	-1.885	100.0%
Total MCDD	0.000		5:23 19:23			1.869	-1.869	100.0%
Total DCDF	0.000		11:40 19:40			0.542	-0.542	100.0%
Total DCDD	0.000		12:23 20:23			0.944	-0.944	100.0%
Total TriCDF	0.000		15:40 22:40			0.785	-0.785	100.0%
Total TriCDD	0.000		17:23 23:23			0.524	-0.524	100.0%
1368-TCDF	1.036	0.77	21:13 26:34	21:26	0.8687	1.203	-0.167	-13.9%
1278-TCDF	0.953	0.79		24:16	0.9838	1.051	-0.098	-9.3%
2378-TCDF	1.051	0.78		24:41	1.0004	1.023	0.028	2.8%
TOTAL TCDF	1.051	0.78				1.023	0.028	2.8%
1368-TCDD	0.773	0.81	22:36 26:32	22:48	0.8983	0.938	-0.165	-17.6%
1379-TCDD	0.679	0.76		23:14	0.9153	0.798	-0.119	-15.0%
2378-TCDD	0.989	0.78		25:25	1.0016	0.914	0.075	8.2%
TOTAL TCDD	0.989	0.78				0.914	0.075	8.2%
12378-PeCDF	0.946	1.54	26:27 30:29	28:40	1.0007	0.912	0.034	3.8%
23478-PeCDF	0.907	1.54		29:21	1.0244	0.925	-0.018	-1.9%
TOTAL PeCDF	0.927	1.54				0.918	0.009	1.0%
12378-PeCDD	1.096	1.57	27:43 30:19	29:43	1.0007	1.056	0.040	3.8%
TOTAL PeCDD	1.096	1.57				1.056	0.040	3.8%
123478-HxCDF	1.018	1.29	30:58 33:41	32:08	0.9972	1.026	-0.008	-0.7%
123678-HxCDF	1.067	1.29		32:14	1.0003	1.075	-0.008	-0.7%
234678-HxCDF	0.976	1.28		32:43	1.0155	0.972	0.004	0.4%

Final

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123789-HxCDF	0.806	1.30		33:28	1.0388	0.795	0.011	1.4%
TOTAL HxCDF	0.967	1.29				0.967	0.000	0.0%
123478-HxCDD	1.059	1.26	31:28 33:19	32:50	0.9979	1.017	0.042	4.1%
123678-HxCDD	1.104	1.23		32:54	1.0000	1.016	0.088	8.7%
123789-HxCDD	1.056	1.25		33:13	1.0097	1.027	0.029	2.9%
TOTAL HxCDD	1.073	1.25				1.020	0.053	5.2%
1234678-HpCDF	1.301	1.05	34:54 36:44	35:04	1.0000	1.255	0.046	3.7%
1234789-HpCDF	0.957	1.05		36:36	1.0436	0.969	-0.012	-1.3%
TOTAL HpCDF	1.129	1.05				1.112	0.017	1.5%
1234678-HpCDD	0.913	1.06	35:10 36:16	36:06	1.0000	0.855	0.058	6.8%
TOTAL HpCDD	0.913	1.06				0.855	0.058	6.8%
OCDF	1.252	0.90	35:40 43:40	39:52	1.0050	1.100	0.152	13.8%
OCDD	0.985	0.84	35:40 43:40	39:41	1.0003	0.914	0.071	7.8%

Other Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
37Cl-TCDD	0.901		23:23 27:23	25:24	1.0008	0.846	0.055	6.5%
13C12-PeCDF 234	0.932	1.52	24:39 32:39	29:21	1.0244	0.990	-0.058	-5.9%
13C12-HxCDF 478	0.940	0.52	28:13 36:13	32:07	0.9969	0.985	-0.045	-4.6%
13C12-HxCDF 234	0.882	0.50		32:42	1.0149	0.912	-0.030	-3.3%
13C12-HxCDF 789	0.657	0.51		33:27	1.0382	0.670	-0.013	-2.0%
13C12-HxCDD 478	1.004	1.23	31:54 33:54	32:48	0.9970	1.035	-0.031	-3.0%
13C12-HpCDF 789	0.733	0.42	33:04 39:04	36:35	1.0431	0.778	-0.045	-5.7%

Internal Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-2378-TCDF	1.409	0.75	23:40 25:40	24:40	1.0000	1.282	0.127	9.9%
13C12-2378-TCDD	1.153	0.79	23:23 27:23	25:23	1.0000	1.052	0.101	9.6%

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13C12-PeCDF 123	1.293	1.49	24:39 32:39	28:39	1.0000	1.199	0.094	7.8%
13C12-PeCDD 123	0.670	1.43	25:42 33:42	29:42	1.0000	0.682	-0.012	-1.8%
13C12-HxCDF 678	1.648	0.50	28:13 36:13	32:13	1.0000	1.452	0.196	13.5%
13C12-HxCDD 678	0.964	1.23	31:54 33:54	32:54	1.0000	0.908	0.056	6.2%
13C12-HpCDF 678	0.965	0.43	33:04 39:04	35:04	1.0000	0.970	-0.005	-0.5%
13C12-HpCDD 678	0.743	1.04	35:06 37:06	36:06	1.0000	0.858	-0.115	-13.4%
13C12-OCDD	0.490	0.88	39:30 39:50	39:40	1.0000	0.698	-0.208	-29.9%

Recovery Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-1234-TCDD	1.000	0.80	23:23 27:23	25:12	0.9929	1.000	0.000	0.0%
13C12-HxCDD 789	1.000	1.21	31:54 33:54	33:12	1.0091	1.000	0.000	0.0%

QC Front End Check: 1.7509 TetraRS/HexaRS: 1.209

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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	21:26		0.77	47.25	20.57	26.68	0.869	1368-TCDF	AN
	24:16		0.79	43.46	19.22	24.24	0.984	1278-TCDF	AN
	24:41		0.78	47.93	20.95	26.98	1.000	2378-TCDF	AN
304-306			3 Peaks						
13C12-TCDF			0.65-0.89						
316-318	24:40		0.75	455.97	195.17	260.80	1.000	13C12-2378-TCDF	IS0
316-318			1 Peak						
---------- Above: TCDF / TCDD Follows ----------									
TCDD			0.65-0.89						
320-322	22:48		0.81	28.83	12.89	15.94	0.898	1368-TCDD	AN
	23:14		0.76	25.31	10.94	14.37	0.915	1379-TCDD	AN
	25:25		0.78	36.87	16.16	20.71	1.002	2378-TCDD	AN
320			3 Peaks						
37Cl-TCDD									
328	25:24			33.59	33.59		1.001	37Cl-TCDD	CLS
328-330			1 Peak						
13C12-TCDD			0.65-0.89						
332-334	25:12		0.80	323.51	144.01	179.50	0.993	13C12-1234-TCDD	RS1
	25:23		0.79	372.95	164.92	208.03	1.000	13C12-2378-TCDD	IS1
332-334			2 Peaks						
---------- Above: TCDD / PeCDF Follows ----------									
PeCDF			1.32-1.78						
340-342	28:40		1.54	197.89	120.06	77.83	1.001	12378-PeCDF	AN
	29:21		1.54	189.74	115.18	74.56	1.024	23478-PeCDF	AN
340-342			2 Peaks						
13C12-PeCDF			1.32-1.78						
352-354	28:39		1.49	418.28	250.20	168.08	1.000	13C12-PeCDF 123	IS2
	29:21		1.52	389.70	234.99	154.71	1.024	13C12-PeCDF 234	SUR1
352-354			2 Peaks						
---------- Above: PeCDF / PeCDD Follows ----------									
PeCDD			1.32-1.78						
356-358	29:43		1.57	118.80	72.57	46.23	1.001	12378-PeCDD	AN
356-358			1 Peak						
13C12-PeCDD			1.32-1.78						
368-370	29:42		1.43	216.74	127.41	89.33	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	32:08		1.29	182.57	102.87	79.70	0.997	123478-HxCDF	AN
	32:14		1.29	191.35	107.82	83.53	1.000	123678-HxCDF	AN
	32:43		1.28	174.92	98.27	76.65	1.016	234678-HxCDF	AN
	33:28		1.30	144.54	81.79	62.75	1.039	123789-HxCDF	AN
374-376			4 Peaks						
13C12-HxCDF			0.43-0.59						
384-386	32:07		0.52	336.93	114.78	222.15	0.997	13C12-HxCDF 478	SUR2
	32:13		0.50	358.52	118.96	239.56	1.000	13C12-HxCDF 678	IS4
	32:42		0.50	316.25	105.23	211.02	1.015	13C12-HxCDF 234	ALT2
	33:27		0.51	235.38	79.22	156.16	1.038	13C12-HxCDF 789	ALT1
384-386			4 Peaks						
---------- Above: HxCDF / HxCDD Follows ----------									
HxCDD			1.05-1.43						
390-392	32:50		1.26	111.00	61.96	49.04	0.998	123478-HxCDD	AN
	32:54		1.23	115.78	63.86	51.92	1.000	123678-HxCDD	AN
	33:13		1.25	110.76	61.62	49.14	1.010	123789-HxCDD	AN
390-392			3 Peaks						
13C12-HxCDD			1.05-1.43						
402-404	32:48		1.23	210.45	116.21	94.24	0.997	13C12-HxCDD 478	SUR3
	32:54		1.23	209.68	115.49	94.19	1.000	13C12-HxCDD 678	IS5
	33:12		1.21	217.53	119.08	98.45	1.009	13C12-HxCDD 789	RS2
402-404			3 Peaks						
---------- Above: HxCDD / HpCDF Follows ----------									
HpCDF			0.88-1.20						
408-410	35:04		1.05	136.51	69.94	66.57	1.000	1234678-HpCDF	AN
	36:36		1.05	100.37	51.36	49.01	1.044	1234789-HpCDF	AN
408-410			2 Peaks						
13C12-HpCDF			0.37-0.51						
418-420	35:04		0.43	209.85	62.80	147.05	1.000	13C12-HpCDF 678	IS6
	36:35		0.42	153.90	45.85	108.05	1.043	13C12-HpCDF 789	SUR4
418-420			2 Peaks						
---------- Above: HpCDF / HpCDD Follows ----------									
HpCDD			0.88-1.20						
424-426	36:06		1.06	73.85	37.97	35.88	1.000	1234678-HpCDD	AN
424-426			1 Peak						
13C12-HpCDD			0.88-1.20						
436-438	36:06		1.04	161.70	82.44	79.26	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	39:52		0.90	133.36	63.33	70.03	1.005	OCDF	AN
442-444			1 Peak						
OCDD			0.76-1.02						
458-460	39:41		0.84	104.93	47.76	57.17	1.000	OCDD	AN
458-460			1 Peak						
13C12-OCDD			0.76-1.02						
470-472	39:40		0.88	213.00	100.00	113.00	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: 11/29/2000 TRIANGLE LABORATORIES, INC.

Continuing Calibration for P004340

Analysis Date....: 11/29/2000 Method.....: C2NF
Operator.....: MVL Instrument..: P
Init Calibration.: PF2O230 Std.Conc....: 5.00
ICal Date.....: 10/23/2000
Analysis Time....: 19:34 GC Column...: DB-225

Analyte Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
2378-TCDF	0.830	0.77	18:43 26:03	23:37	1.0008	0.947	-0.117	-12.3%
TOTAL TCDF	0.830	0.77				0.947	-0.117	-12.3%
2378-TCDD	0.852	0.77	19:32 25:13	22:10	1.0000	0.965	-0.113	-11.7%
TOTAL TCDD	0.852	0.77				0.965	-0.113	-11.7%

Other Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
37Cl-TCDD	0.993		20:10 24:10	22:10	1.0000	0.992	0.001	0.1%

Internal Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-2378-TCDF	1.489	0.77	22:36 24:36	23:36	1.0000	1.565	-0.076	-4.9%
13C12-2378-TCDD	1.014	0.77	20:10 24:10	22:10	1.0000	1.104	-0.090	-8.1%

Recovery Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-1234-TCDD	1.000	0.78		22:23	1.0095	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	23:37		0.77	240.14	104.67	135.47	1.001	2378-TCDF	AN
304-306			1 Peak						
13C12-TCDF			0.65-0.89						
316-318	23:36		0.77	5,783.25	2,522.92	3,260.33	1.000	13C12-2378-TCDF	IS0
316-318			1 Peak						
---------- Above: TCDF / TCDD Follows ----------									
TCDD			0.65-0.89						
320-322	22:10		0.77	167.85	73.00	94.85	1.000	2378-TCDD	AN
320			1 Peak						
37Cl-TCDD									
328	22:10			195.75	195.75		1.000	37Cl-TCDD	SUR1
328-330			1 Peak						
13C12-TCDD			0.65-0.89						
332-334	22:10		0.77	3,940.79	1,709.21	2,231.58	1.000	13C12-2378-TCDD	IS1
	22:23		0.78	3,884.49	1,700.58	2,183.91	1.010	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 ***

Date: 11/30/2000 TRIANGLE LABORATORIES, INC.

Continuing Calibration for P004350

Analysis Date....: 11/30/2000 Method.....: C2NF
Operator.....: JMM Instrument..: P
Init Calibration.: PF20230 Std.Conc....: 5.00
ICal Date.....: 10/23/2000 Related CCal: P004340
Analysis Time....: 07:05 GC Column...: DB-225

Analyte Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
2378-TCDF	0.794	0.76	16:34 27:34	23:35	1.0004	0.947	-0.153	-16.1%
TOTAL TCDF	0.794	0.76				0.947	-0.153	-16.1%
2378-TCDD	0.850	0.80	18:08 26:08	22:09	1.0009	0.965	-0.115	-11.9%
TOTAL TCDD	0.850	0.80				0.965	-0.115	-11.9%

Other Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
37Cl-TCDD	0.909		20:08 24:08	22:08	1.0000	0.992	-0.083	-8.4%

Internal Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-2378-TCDF	2.156	0.74	22:34 24:34	23:34	1.0000	1.565	0.591	37.8%
13C12-2378-TCDD	1.011	0.76	20:08 24:08	22:08	1.0000	1.104	-0.093	-8.4%

Recovery Standard Summary

Name	RF	Ratio 1&2	RT Lo/High	RT	Rel. RT	ICal RF	Delta RF	%D
13C12-1234-TCDD	1.000	0.80		22:21	1.0099	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	23:35		0.76	16.05	6.91	9.14	1.000	2378-TCDF	AN
304-306			1 Peak						
13C12-TCDF			0.65-0.89						
316-318	23:34		0.74	404.03	172.00	232.03	1.000	13C12-2378-TCDF	ISO
316-318			1 Peak						
---------- Above: TCDF / TCDD Follows ----------									
TCDD			0.65-0.89						
320-322	22:09		0.80	8.05	3.58	4.47	1.001	2378-TCDD	AN
320			1 Peak						
37Cl-TCDD									
328	22:08			8.61	8.61		1.000	37Cl-TCDD	SUR1
328-330			1 Peak						
13C12-TCDD			0.65-0.89						
332-334	22:08		0.76	189.45	81.79	107.66	1.000	13C12-2378-TCDD	IS1
	22:21		0.80	187.37	83.02	104.35	1.010	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 ***