

TRIANGLE LAB DATA

**Analytical Results
Dioxin/Furan**

Crystal Springs, Mississippi

BOOK VI

**July 18, 2002 Report
Project # 57752C**

**July 29, 2002 Report
Project # 57930**

TRIANGLE LAB
Sample Analysis - Dioxin/Furan
July 18, 2002
Crystal Springs, MS
Book VI

Project # 57840 (continued)

Dates of Samples/ COC	Sample #	Pages	Depth
Sample Data (continued from Book V)			
	DF-DP-27	381-415	0-2'
	DF-DP-27 (tetra only)	416-424	0-2'
	DF-DP-209	425-450	0-2' offset
	DF-DP-209 (tetra only)	451-459	0-2' offset
	DF-DP-676	460-488	0-2'
	DF-DP-676 (tetra only)	489-497	0-2'
	DF-DP-642	498-530	0-2'
	DF-DP-642 (tetra only)	531-539	0-2'
7/9/02	Duplicate	540-565	
	Duplicate (tetra only)	566-573	
	Clean Up Blk	574-593	
	Calibration Data	594-617	

TLI Project: 57840
 Client Sample: DF-DP-27 0-2'

1613, Revision B PCDD/PCDF Analysis (c)
 Analysis File: W108211

Client Project:	Dioxin/Furan Analysis			Spike File:	SP161B2S
Sample Matrix:	SOLID	Date Received:	07/11/2002	ICal:	WF5614B
TLI ID:	330-27-9	Date Extracted:	07/12/2002	ConCal:	WB21081
		Date Analyzed:	07/17/2002		
Sample Size:	11.900 g	Dilution Factor:	n/a	% Moisture:	15.3
Dry Weight:	10.079 g	Blank File:	W108202	% Lipid:	n/a
GC Column:	DB-5	Analyst:	JLD	% Solids:	84.7

Analytes	Conc. (pg/g)	DL	Ratio	RT	RRT	Flags
2,3,7,8-TCDD	2.6		0.86	27:11	1.001	---
1,2,3,7,8-PeCDD	15.9		1.46	31:23	1.001	---
1,2,3,4,7,8-HxCDD	19.4		1.18	34:30	1.000	---
1,2,3,6,7,8-HxCDD	349		1.21	34:35	1.000	---
1,2,3,7,8,9-HxCDD	64.6		1.21	34:54	1.010	---
1,2,3,4,6,7,8-HpCDD	1030		1.03	37:55	1.000	---
1,2,3,4,6,7,8,9-OCDD	3860		0.85	41:39	1.000	---
2,3,7,8-TCDF	51.8		0.77	26:30	1.001	---
1,2,3,7,8-PeCDF	37.5		1.56	30:22	1.001	---
2,3,4,7,8-PeCDF	163		1.47	31:03	1.001	---
1,2,3,4,7,8-HxCDF	1590		1.27	33:48	1.000	---
1,2,3,6,7,8-HxCDF	543		1.27	33:54	1.000	---
2,3,4,6,7,8-HxCDF	652		1.28	34:23	1.000	---
1,2,3,7,8,9-HxCDF	28.9		1.13	35:11	1.000	---
1,2,3,4,6,7,8-HpCDF	11610		1.01	36:57	1.000	SE_
1,2,3,4,7,8,9-HpCDF	524		1.07	38:25	1.000	Q_
1,2,3,4,6,7,8,9-OCDF	19090		0.90	41:52	1.006	SE_

Totals	Conc. (pg/g)	Number	DL	Flags
Total TCDD	34.3	6		---
Total PeCDD	80.3	5		---
Total HxCDD	2020	8		---
Total HpCDD	1540	2		---
Total TCDF	928	18		---
Total PeCDF	4630	15		---
Total HxCDF	22690	13		SE_
Total HpCDF	25730	4		SE_

Martin & Slagle

TLI Project: **57840**
 Client Sample: **DF-DP-27 0-2'**

Toxicity Equivalents Report
 Analysis File: **W108211**

Client Project: Dioxin/Furan Analysis	Date Received: 07/11/02	Spike File: SP161B2S
Sample Matrix: SOLID	Date Extracted: 07/12/02	ICal: WF5614B
TLI ID: 330-27-9	Date Analyzed: 07/17/02	ConCal: WB21081
Sample Size: 11.900 g	Dilution Factor: 1	% Moisture: 15.3
Dry Weight: 10.079 g	Blank File: W108202	% Lipid: n/a
GC Column: DB-5	Analyst: JLD	% Solids: 84.7

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	2.6	x	1.	=	2.6
1,2,3,7,8-PeCDD	15.9	x	0.5	=	7.95
1,2,3,4,7,8-HxCDD	19.4	x	0.1	=	1.94
1,2,3,6,7,8-HxCDD	349	x	0.1	=	34.9
1,2,3,7,8,9-HxCDD	64.6	x	0.1	=	6.46
1,2,3,4,6,7,8-HpCDD	1030	x	0.01	=	10.30
1,2,3,4,6,7,8,9-OCDD	3860	x	0.001	=	3.860
TOTAL PCDD					68.0
2,3,7,8-TCDF	36.7	x	0.1	=	3.67
1,2,3,7,8-PeCDF	37.5	x	0.05	=	1.88
2,3,4,7,8-PeCDF	163	x	0.5	=	81.5
1,2,3,4,7,8-HxCDF	1590	x	0.1	=	159.0
1,2,3,6,7,8-HxCDF	543	x	0.1	=	54.3
2,3,4,6,7,8-HxCDF	652	x	0.1	=	65.2
1,2,3,7,8,9-HxCDF	28.9	x	0.1	=	2.89
1,2,3,4,6,7,8-HpCDF	11610	x	0.01	=	116.10
1,2,3,4,7,8,9-HpCDF	524	x	0.01	=	5.24
1,2,3,4,6,7,8,9-OCDF	19090	x	0.001	=	19.090
TOTAL PCDF					508.9

Total EPA TEFs, 1989a: 576.9 pg/g

InitialDate...

KW 7/18/02

Data Review By:

Calculated Noise Height: 0.88

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07/18/2002

Listing of W108211B.dbf
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				0.877-1.070			
304-306		DC	NL	Height	12.87	8.43	4.44		
D	D	WL	23:20	0.72	16,898.75			0.881	
			23:50	0.75	1,144.12	490.73	653.39	0.900	
			24:09	0.74	4,180.43	1,782.67	2,397.76	0.912	
			24:24	0.76	1,171.82	505.85	665.97	0.921	
M			24:32	0.78	1,316.00	576.00	740.00	0.926	
			24:51	0.74	4,962.80	2,116.17	2,846.63	0.938	
			25:01	0.77	1,296.72	563.83	732.89	0.945	
			25:09	0.77	2,874.30	1,246.15	1,628.15	0.950	
			25:35	0.80	13,809.19	6,157.39	7,651.80	0.966	
A			25:42	0.71	1,201.00	498.00	703.00	0.970	
M			25:54	0.73	5,070.00	2,140.00	2,930.00	0.978	
			26:06	0.73	6,070.51	2,559.04	3,511.47	0.986	
			26:15	0.73	4,291.45	1,807.86	2,483.59	0.991	
A			26:27	0.74	3,760.00	1,600.00	2,160.00	0.999	
M			26:30	0.77	5,090.00	2,220.00	2,870.00	1.001	2378-TCDF AN
			26:55	0.74	1,481.10	627.53	853.57	1.016	
			27:09	0.78	1,275.14	559.46	715.68	1.025	
			27:26	0.75	7,777.08	3,324.16	4,452.92	1.036	
			27:43	0.75	24,421.70	10,472.20	13,949.50	1.047	
	DC	WH	28:23	0.76	535.90			1.072	
	DC	WH	28:29	0.65	809.36			1.076	
304-306			18 Peaks		91,193.36				

13C12-TCDF		0.65-0.89				0.944-1.133			
316-318		DC	NL	Height	4.88	2.10	2.78		
	DC	WL	24:40	RO 0.98	16.66			0.931	
			25:46	RO 0.55	45.90	16.37	29.53	0.973	
			26:05	RO 0.90	142.52	67.45	75.07	0.985	
			26:29	0.74	17,047.54	7,266.63	9,780.91	1.000	13C12-2378-TCDF ISO
				Height	4,814.26	2,032.54	2,781.72		
			26:50	RO 0.45	220.67	68.04	152.63	1.013	
			27:11	RO 0.45	41.44	12.90	28.54	1.026	
			27:49	RO 0.10	635.83	56.13	579.70	1.050	
			28:30	RO 0.14	74.09	8.93	65.16	1.076	
316-318			7 Peaks		18,207.99				

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

TCDD		0.65-0.89				0.903-1.042			
320-322		DC	NL	Height	4.71	2.21	2.50		
			24:42	0.74	183.68	78.33	105.35	0.909	1368-TCDD AN
			25:05	RO 0.99	57.75	28.76	28.99	0.923	1379-TCDD AN
			25:22	RO 0.58	53.86	19.77	34.09	0.934	
			25:35	0.84	45.70	20.84	24.86	0.942	J
			25:50	0.79	37.94	16.70	21.24	0.951	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.

			26:01	0.79	1,432.27	631.53	800.74	0.958		
			26:18	RO 0.96	191.09	93.84	97.25	0.968		
			26:29	RO 0.18	221.03	34.21	186.82	0.975		
			26:45	RO 1.60	182.22	112.20	70.02	0.985		
			26:52	RO 0.38	144.55	39.60	104.95	0.989		
A			27:00	0.72	971.00	406.00	565.00	0.994		
M			27:11	0.86	218.00	101.00	117.00	1.001	2378-TCDD	AN
			27:21	RO 1.61	132.24	61.62	50.62	1.007		
M			27:31	RO 0.93	558.00	269.00	289.00	1.013		
			27:47	RO 1.93	1,614.14	1,062.64	551.50	1.023		
	DC SN		27:59	RO 0.01	345.66			1.030		
			28:12	RO 0.26	244.37	50.39	193.98	1.038		
	DC WH		28:23	RO 1.17	201.51			1.045		
	DC WH		28:30	RO 1.23	194.17			1.049		
320-322			16 Peaks		6,287.84					

							0.926-1.074			
37C1-TCDD										
328	DC NL		Height		3.92	3.92				
			25:34		297.57	297.57		0.941		
			25:50		3,518.58	3,518.58		0.951		
			26:18		201.78	201.78		0.968		
			26:27		102.09	102.09		0.974		
			27:12		1,934.42	1,934.42		1.001	37C1-TCDD	CLS
			27:26		227.48	227.48		1.010		
			27:35		84,271.20	84,271.20		1.015		
			27:47		267.66	267.66		1.023		
			27:58		213.79	213.79		1.029		
			28:30		618.65	618.65		1.049		
328			10 Peaks		91,653.22					

							0.920-1.067			
13C12-TCDD										
332-334	DC NL		Height		8.72	6.57	2.15			
			27:00	0.80	17,682.08	7,872.91	9,809.17	0.994	13C12-1234-TCDD	RS1
			27:10	0.79	15,140.91	6,661.03	8,479.88	1.000	13C12-2378-TCDD	IS1
			Height		4,452.54	1,929.25	2,523.29			
			27:34	RO 1.26	57.37	31.99	25.38	1.015		
332-334			3 Peaks		32,880.36					

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

							0.909-1.036			
PeCDF										
340-342	DC NL		Height		4.94	2.31	2.63			
	DC WL		28:12	1.45	2,297.19			0.909		
			28:29	1.47	37,418.20	22,259.40	15,158.80	0.918		
			28:43	1.50	25,869.30	15,512.40	10,356.90	0.925		
			28:55	1.44	6,339.65	3,738.63	2,601.02	0.932		
			29:07	1.48	20,765.46	12,390.60	8,374.86	0.938		
			29:31	1.47	71,984.00	42,836.40	29,147.60	0.951		
			29:43	1.47	99,125.70	58,934.00	40,191.70	0.958		
			29:54	1.47	44,289.30	26,345.10	17,944.20	0.963		
MN			30:16	1.46	145,800.00	86,600.00	59,200.00	0.997		
AN			30:22	1.56	4,270.00	2,600.00	1,670.00	1.001	12378-PeCDF	AN

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

DC	SN	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
		30:12		1.60	7.89			0.963			
		30:27		1.58	81.12	49.73	31.39	0.971			
		30:37	RO	0.82	39.02	17.63	21.39	0.976			
		30:58	RO	0.10	47.94	4.29	43.65	0.987			
		31:12	RO	2.74	33.29	24.38	8.91	0.995			
		31:22		1.50	15,269.74	9,165.79	6,103.95	1.000	13C12-PeCDD 123	IS4	
				Height	5,085.98	3,046.08	2,039.90				
		31:31		1.52	81.34	49.06	32.28	1.005			
		31:40	RO	0.73	23.00	9.68	13.32	1.010			
		32:01	RO	0.84	75.95	34.72	41.23	1.021			
DC	SN	32:23	RO	0.40	4.49			1.032			
368-370		9 Peaks			15,676.24						

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

HxCDF	DC	NL	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
374-376			1.05-1.43		Height	123.59	53.06	70.53				
			32:51		1.29	116,939.30	65,787.90	51,151.40	0.934			
			32:59		1.21	586,570.00	320,799.00	265,771.00	0.938			SE
			33:08		1.28	11,757.67	6,595.43	5,162.24	0.942			
			33:16		1.33	4,849.85	2,765.42	2,084.43	0.946			
			33:26		1.12	787,366.00	415,632.00	371,734.00	0.951			SE
			33:40		1.30	3,747.78	2,116.44	1,631.34	0.957			
			33:48		1.27	133,519.90	74,789.40	58,730.50	1.000	123478-HxCDF		AN
			33:54		1.27	44,237.60	24,731.10	19,506.50	1.000	123678-HxCDF		AN
			34:00		1.21	2,027.84	1,111.54	916.30	0.967			
			34:11		1.33	1,353.37	771.38	581.99	0.972			
			34:23		1.28	50,550.90	28,361.90	22,189.00	1.000	234678-HxCDF		AN
AN			35:11		1.13	1,850.00	981.00	869.00	1.000	123789-HxCDF		AN
M			35:15		1.27	9,790.00	5,470.00	4,320.00	1.002			
374-376		13 Peaks			1,754,560.21							

13C12-HxCDF	DC	NL	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
384-386			0.43-0.59		Height	13.70	6.56	7.14				
			32:51	RO	1.83	96.22	62.25	33.97	0.934			
			32:59	RO	2.42	512.18	362.51	149.67	0.938			
			33:27	RO	2.46	897.00	637.82	259.18	0.951			
			33:47		0.51	13,397.62	4,511.45	8,886.17	1.000	13C12-HxCDF 478	IS5	
					Height	4,586.78	1,477.04	3,109.74				
			33:54		0.51	12,501.41	4,215.63	8,285.78	1.000	13C12-HxCDF 678	IS6	
					Height	4,218.95	1,423.80	2,795.15				
			34:23		0.52	12,770.40	4,393.78	8,376.62	1.000	13C12-HxCDF 234	IS7	
					Height	4,403.31	1,530.97	2,872.34				
			35:10		0.51	10,037.93	3,370.39	6,667.54	1.000	13C12-HxCDF 789	IS8	
					Height	3,096.63	1,062.96	2,033.67				
384-386		7 Peaks			50,212.76							

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

HxCDD	DC	NL	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
390-392			1.05-1.43		Height	29.16	16.80	12.36				
			33:20		1.17	16,732.58	9,019.61	7,712.97	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.
					33:27		1.34	350.55	200.69	149.86	0.968			J
					33:46		1.22	2,733.38	1,501.61	1,231.77	0.977			
					33:59		1.20	64,977.00	35,478.90	29,498.10	0.983			
MN					34:26		1.24	1,549.00	858.00	691.00	0.999			
AN					34:30		1.18	1,052.00	569.00	483.00	1.000	123478-HxCDD	AN	
M					34:35		1.21	18,790.00	10,300.00	8,490.00	1.000	123678-HxCDD	AN	
					34:54		1.21	3,586.71	1,961.38	1,625.33	1.010	123789-HxCDD	AN	
DC	WH				35:08	RO	2.38	407.48			1.016			
DC	WH				35:23	RO	0.67	111.73			1.024			
390-392					8 Peaks			109,771.22						

13C12-HxCDD					1.05-1.43						0.983-1.041			
402-404	DC	NL			Height		18.10		8.88		9.22			
	DC	WL	33:16	RO	1.44		54.34				0.965			
	DC	WL	33:27		1.29		124.98				0.970			
	DC	SN	33:59	RO	1.94		74.83				0.986			
	DC	SN	34:15	RO	1.87		15.30				0.993			
			34:29		1.23		9,233.00	5,083.87	4,149.13	1.000	13C12-HxCDD	478	IS9	
					Height		3,058.40	1,671.11	1,387.29					
			34:34		1.18		9,789.44	5,302.27	4,487.17	1.000	13C12-HxCDD	678	IS10	
					Height		3,207.39	1,739.05	1,468.34					
			34:54		1.20		10,635.12	5,808.69	4,826.43	1.012	13C12-HxCDD	789	RS2	
402-404			3 Peaks				29,657.56							

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

HpCDF					0.88-1.20						0.955-1.004			
408-410	DC	NL			Height		53.94		29.79		24.15			
			36:57		1.01		1,769,601.00	890,832.00	878,769.00	1.000	1234678-HpCDF	AN	SE	
			37:09		1.08		3,889.68	2,016.93	1,872.75	0.967				Q
			37:17		1.01		1,384,002.00	696,920.00	687,082.00	0.971				SE
			38:25		1.07		27,156.90	14,048.10	13,108.80	1.000	1234789-HpCDF	AN	Q	
408-410			4 Peaks				3,184,649.58							

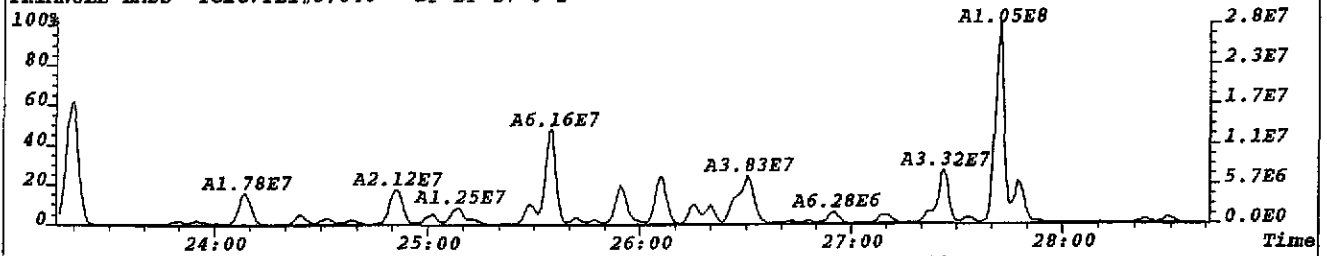
13C12-HpCDF					0.37-0.51						0.856-1.143			
418-420	DC	NL			Height		5.50		2.54		2.96			
			36:56	RO	0.80		20,273.84	9,011.44	11,262.40	1.000	13C12-HpCDF	678	IS11	Q
					Height		4,162.06	1,882.81	2,269.25					
			37:20	RO	2.76		3,080.33	2,261.25	819.08	0.972				
			37:34		0.42		30.06	8.93	21.13	0.978				
			38:24		0.45		6,907.58	2,129.89	4,777.69	1.000	13C12-HpCDF	789	IS12	
					Height		1,861.70	593.30	1,268.40					
	DC	SN	38:43		0.49		20.81			1.008				
418-420			4 Peaks				30,291.81							

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

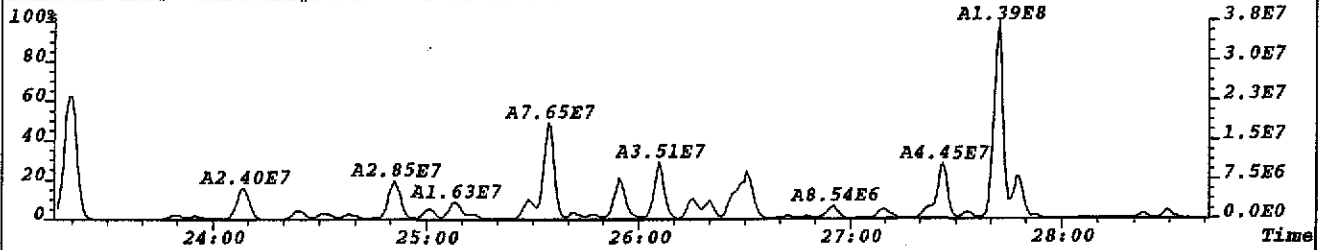
HpCDD					0.88-1.20						0.975-1.005			
424-426	DC	NL			Height		14.39		7.59		6.80			
	DC	WL	36:56	RO	1.48		1,746.92				0.974			
K			37:11		1.03		21,266.20	10,768.40	10,497.80	0.981				
D	D	NH	37:20	RO	1.42		863.36			0.985				

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.	
	D			NH	37:30		0.91	183.80			0.989				
					37:55		1.03	43,689.50	22,199.80	21,489.70	1.000	1234678-HpCDD	AN		
				DC	WH	38:25	RO	1.97	58.37		1.014				
424-426					2 Peaks			64,955.70							
13C12-HpCDD							0.88-1.20				0.868-1.079				
436-438				DC	NL			Height	15.03	7.12	7.91				
					36:57		1.20	715.24	390.39	324.85	0.975				
					37:20		1.18	394.29	213.62	180.67	0.985				
					37:54		1.03	8,317.87	4,212.31	4,105.56	1.000	13C12-HpCDD 678	IS13		
					Height			2,381.19	1,209.20	1,171.99					
				DC	SN	38:04	RO	0.80	44.23		1.004				
436-438					3 Peaks			9,427.40							
----- Above: HpCDD / Octa-CDD and CDF Follows -----															
OCDF							0.76-1.02				0.952-1.048				
442-444				DC	NL			Height	7.60	4.63	2.97				
					41:52		0.90	994,414.00	470,183.00	524,231.00	1.006	OCDF	AN	SE	
442-444					1 Peak			994,414.00							
OCDD							0.76-1.02				0.952-1.048				
458-460				DC	NL			Height	4.70	2.22	2.48				
					41:39		0.85	159,315.80	73,255.10	86,060.70	1.000	OCDD	AN		
					41:53	RO	2.45	1,076.43	764.30	312.13	1.006				
458-460					2 Peaks			160,392.23							
13C12-OCDD							0.76-1.02				0.996-1.004				
470-472				DC	NL			Height	9.21	3.13	6.08				
					41:38		0.84	15,587.74	7,094.06	8,493.68	1.000	13C12-OCDD	IS14		
					Height			3,253.62	1,472.65	1,780.97					
				DC	WH	41:52	RO	1.15	267.83		1.006				
				DC	WH	42:02		1.01	57.15		1.010				
470-472					1 Peak			15,587.74							
Column Description..... "Why" Code Description..... QC Log Desc.....															
M_Z	-Nominal Ion Mass(es)				WL-Below Retention Time Window				A-Peak Added						
..RT.	-Retention Time (mm:ss)				WH-Above Retention Time Window				K-Peak Kept						
Rat.1	-Ratio of M/M+2 Ions				SN-Below Signal to Noise Level				D-Peak Deleted						
OK	-RO=Ratio Outside Limits				<M-Below Method Detection Limit				T-Time Changed						
Rel.RT	-Relative Retention Time				NL-Channel Specific Noise Level				M-Peak Area Changed						
									N-Name Changed						
									X-Ether Interference						
*** End of Report ***															

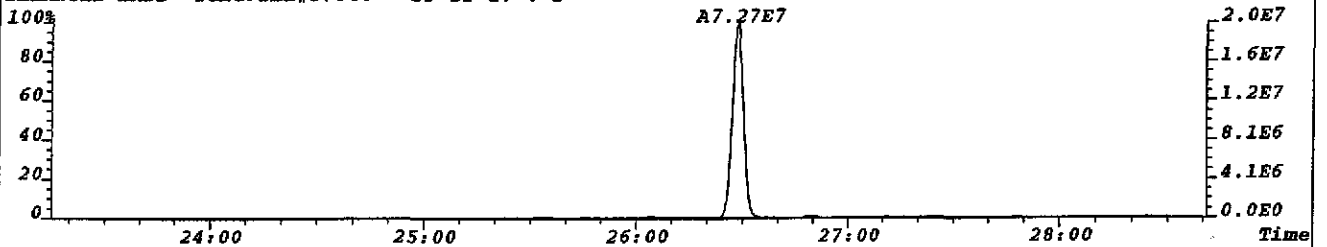
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303.9016 S:11 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,42136.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



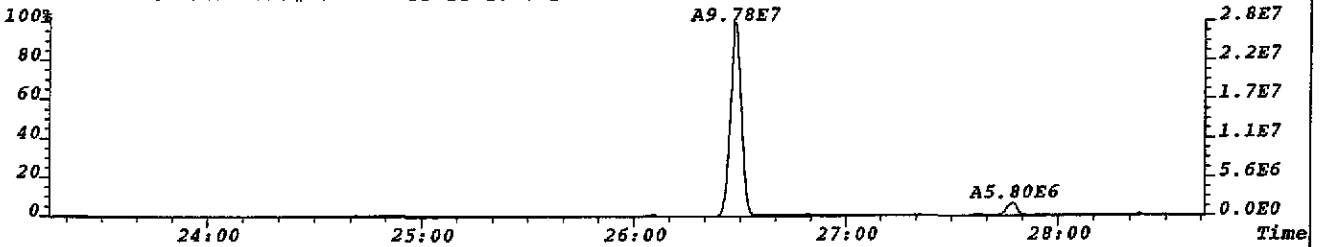
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305.8987 S:11 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,22192.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



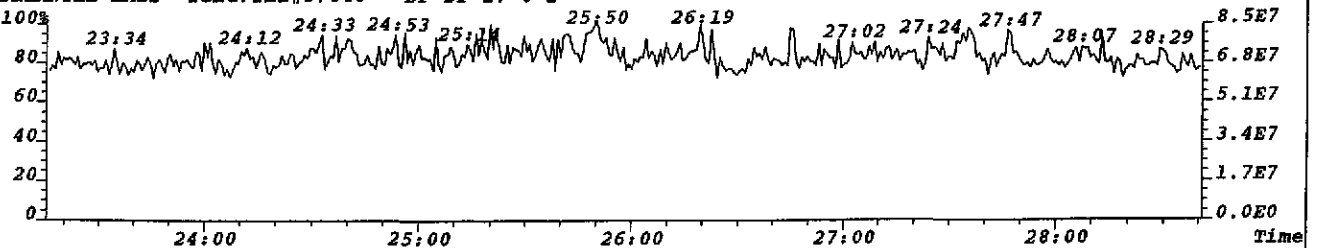
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315.9419 S:11 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,10524.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



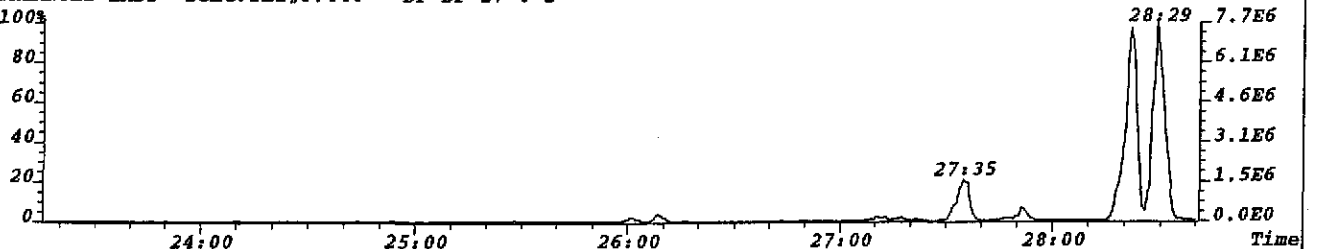
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317.9389 S:11 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,13884.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



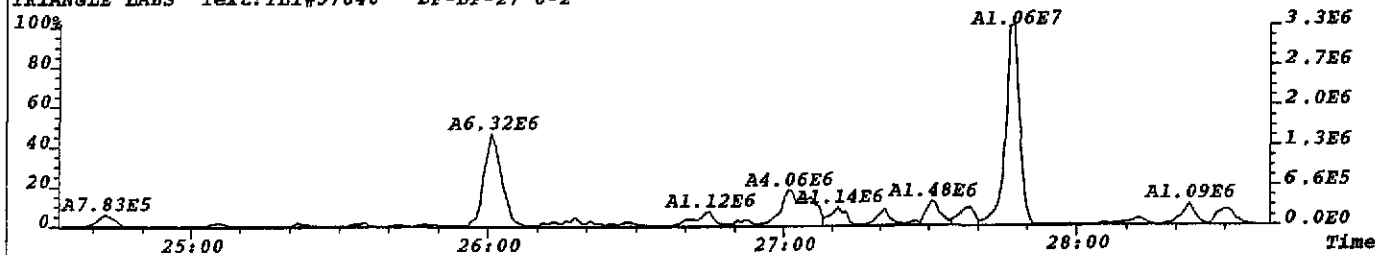
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330.9792 S:11 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



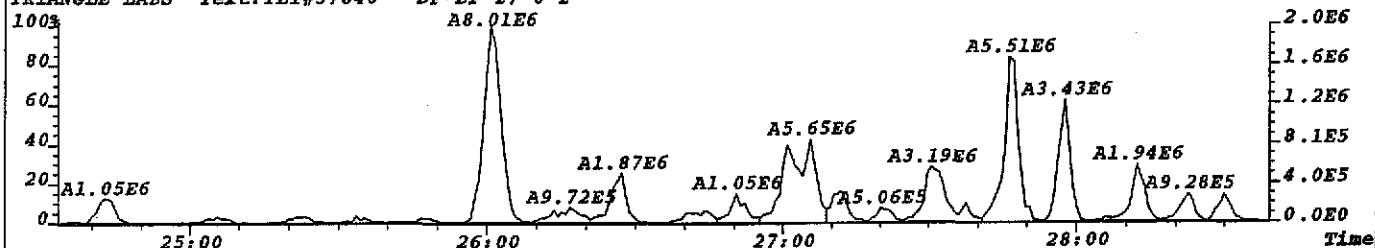
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375.8364 S:11 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



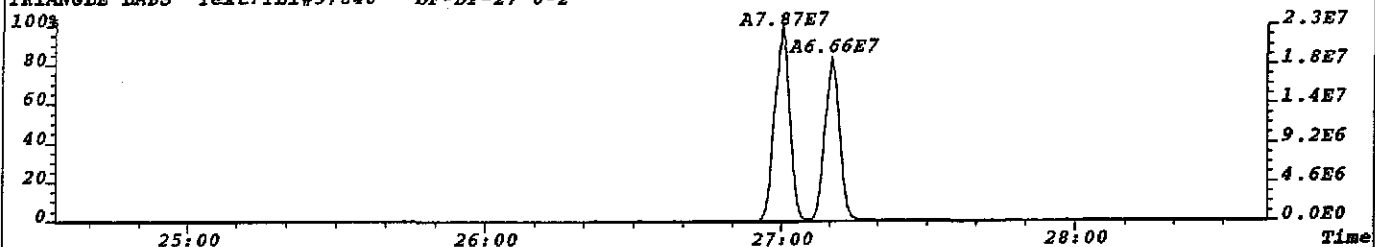
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319.8965 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11056.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



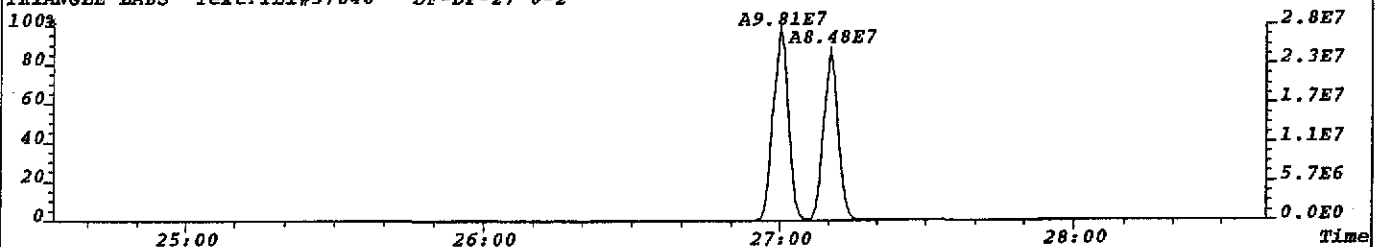
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321.8936 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,12508.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



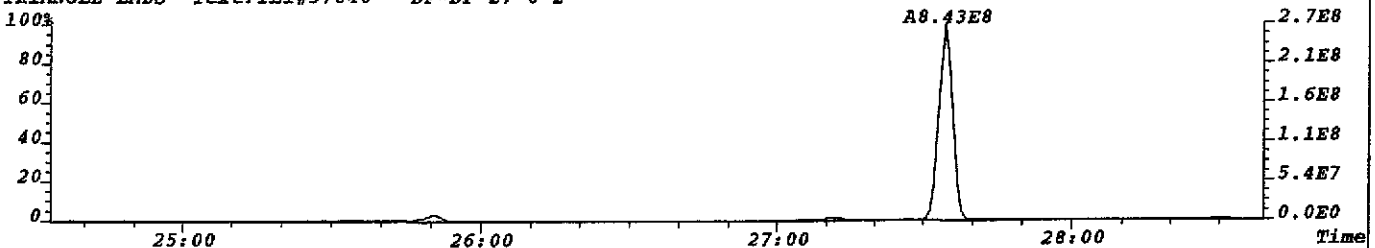
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331.9338 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,32864.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



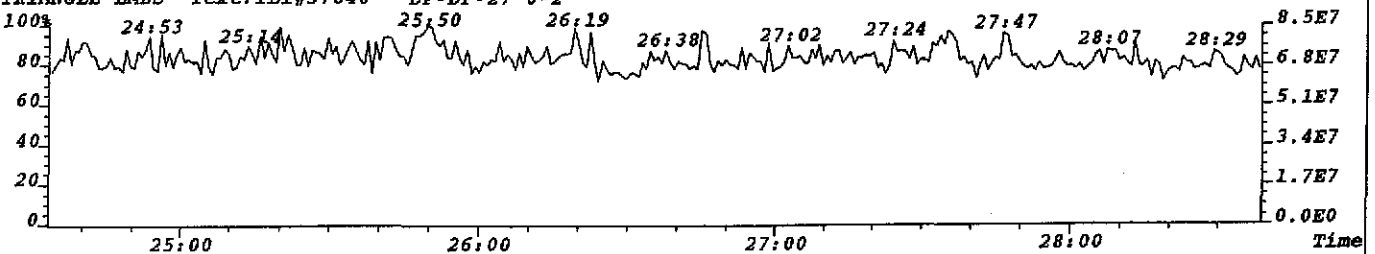
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TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



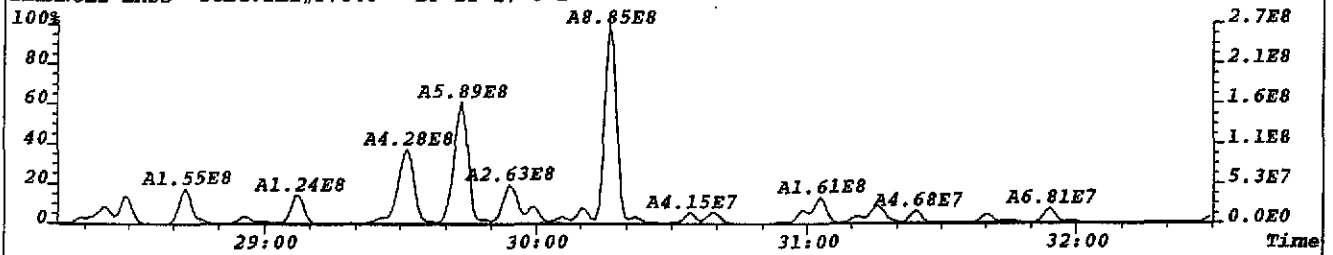
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327.8847 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,19596.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



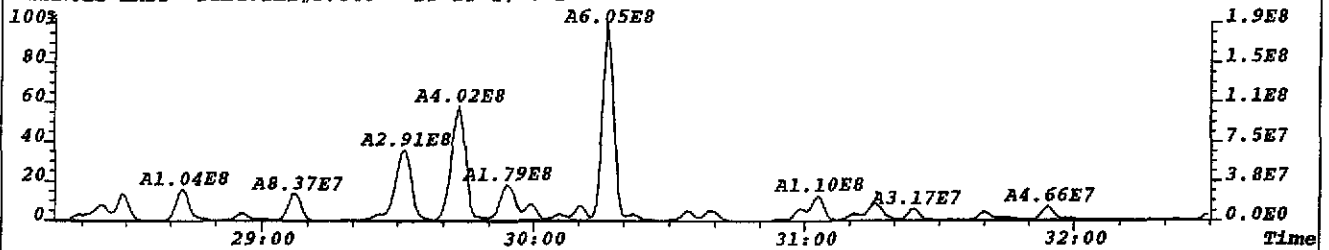
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330.9792 S:11 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



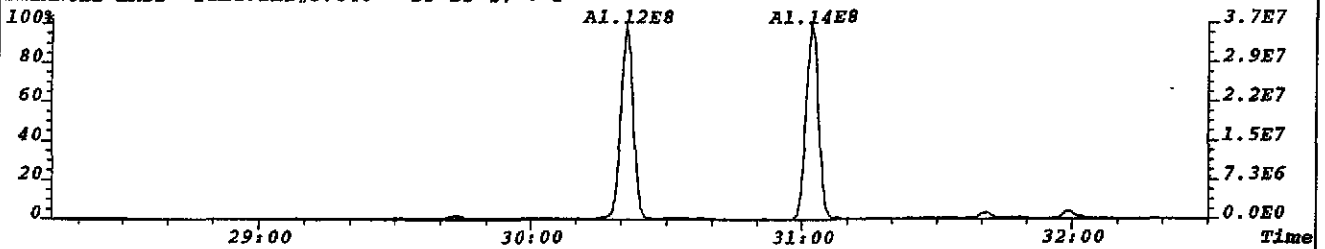
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339.8597 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11528.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



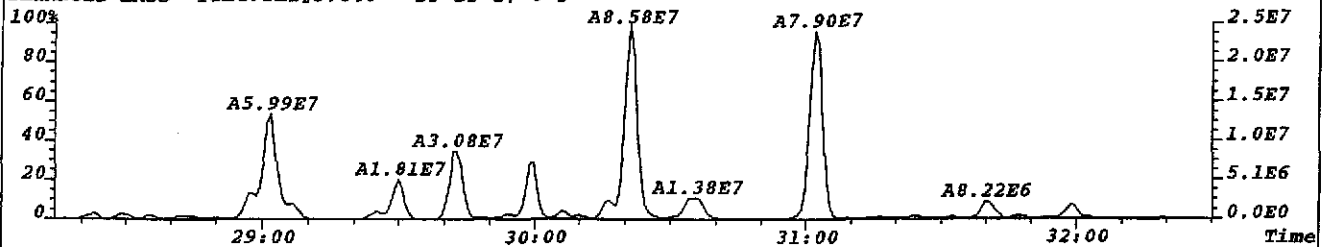
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341.8567 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,13128.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



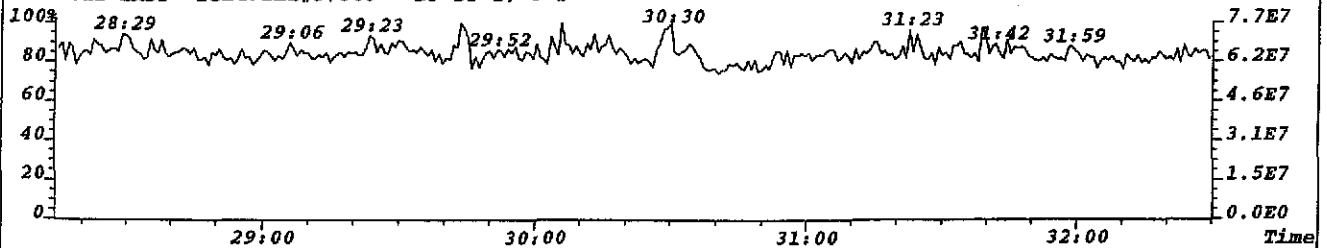
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351.9000 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7512.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



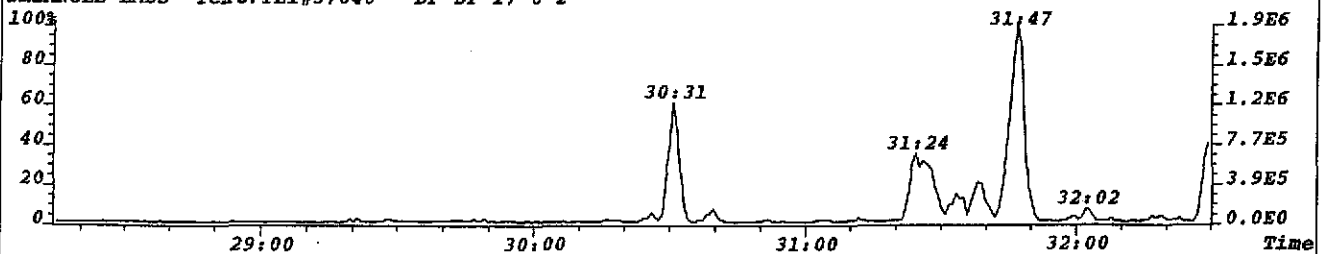
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353.8970 S:11 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,16120.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



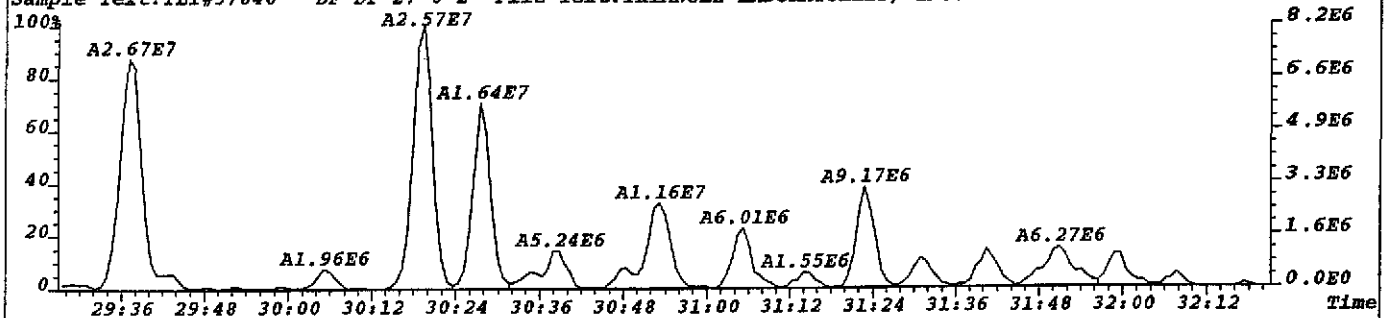
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330.9792 S:11 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



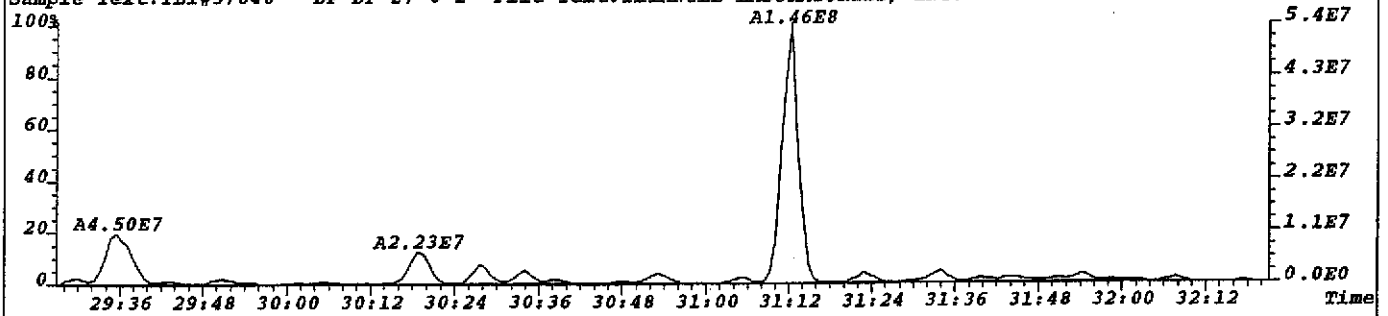
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409.7974 S:11 F:2 Exp:NDB5US
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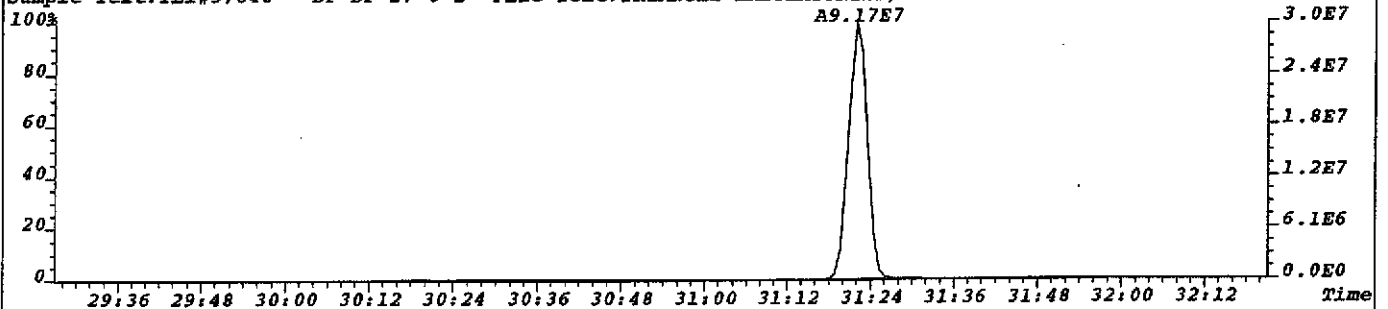
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355.8546 S:11 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,9024.0,1.00%,F,T) Exp:NDB5US Noise:2256
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



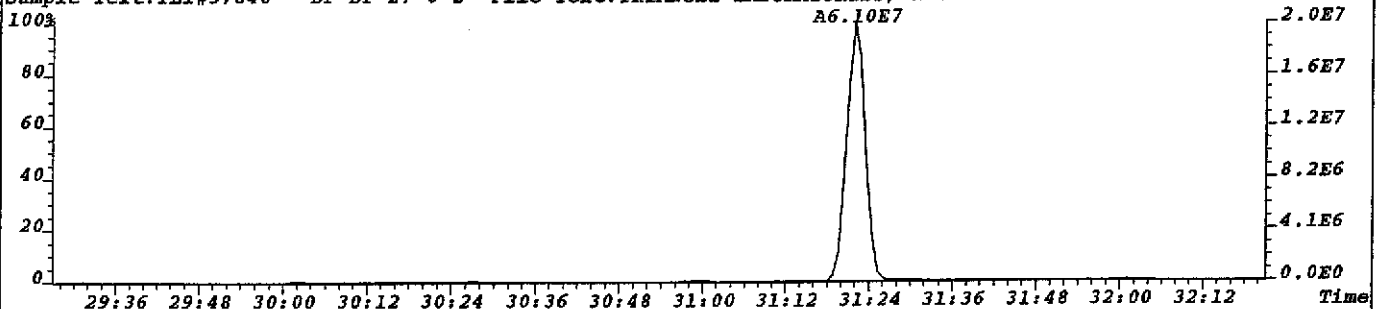
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357.8516 S:11 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,21808.0,1.00%,F,T) Exp:NDB5US Noise:5452
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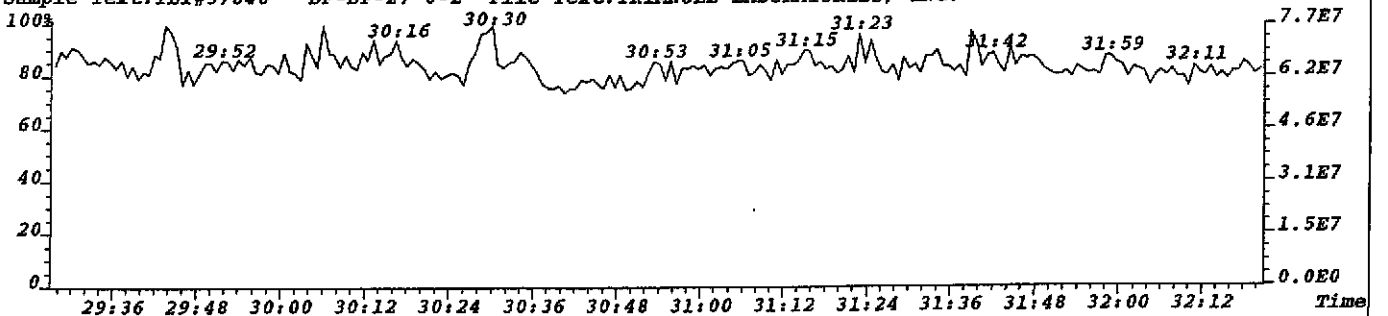
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367.8949 S:11 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,7452.0,1.00%,F,T) Exp:NDB5US Noise:1863
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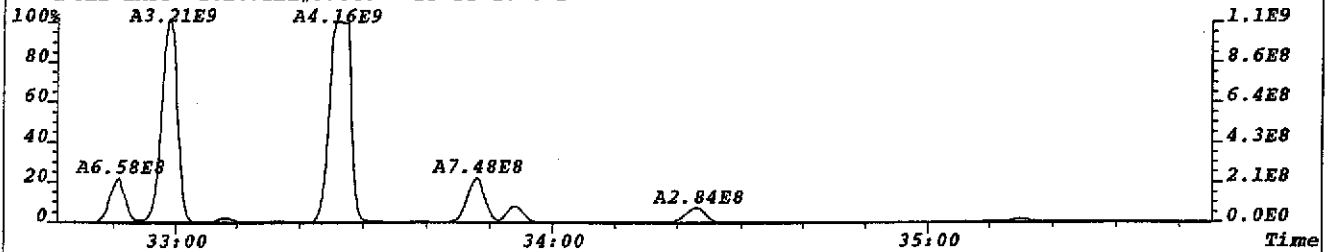
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369.8919 S:11 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,6852.0,1.00%,F,T) Exp:NDB5US Noise:1713
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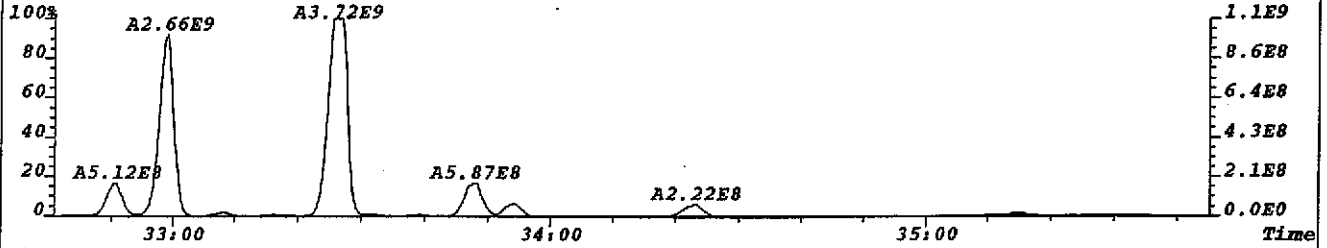
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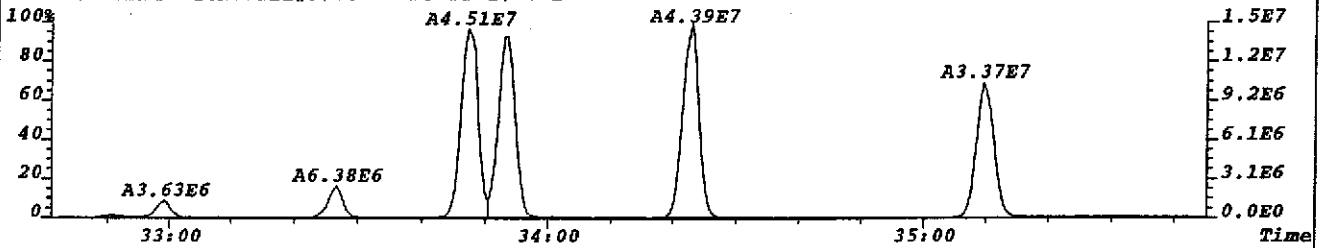
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373.8208 S:11 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,265300.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



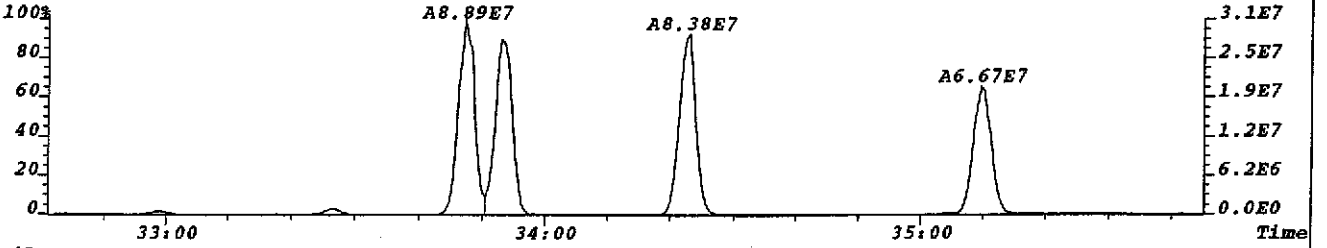
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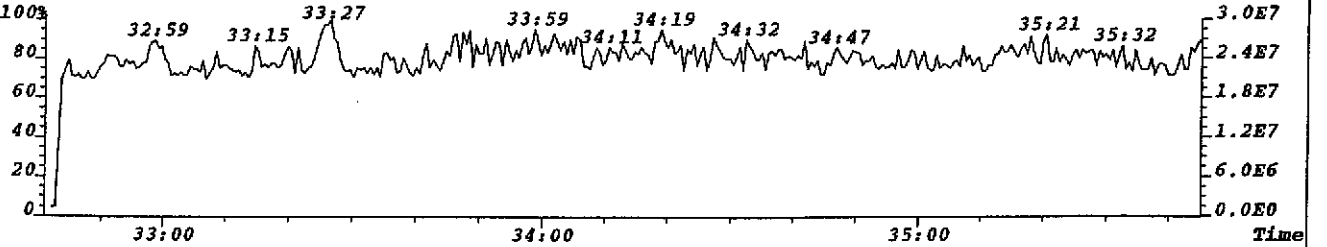
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383.8639 S:11 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,32800.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



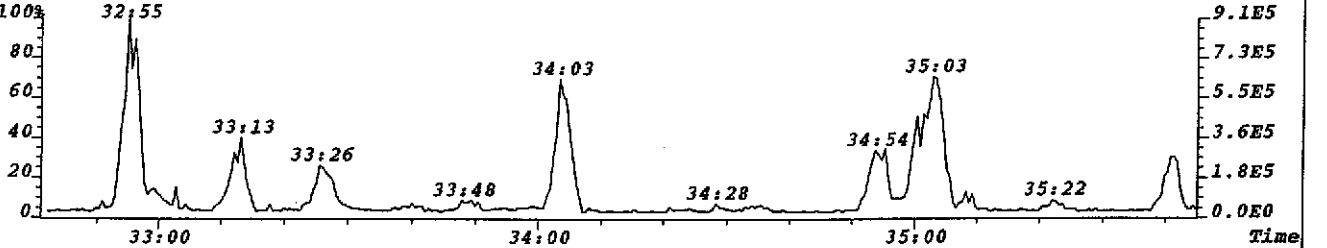
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TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



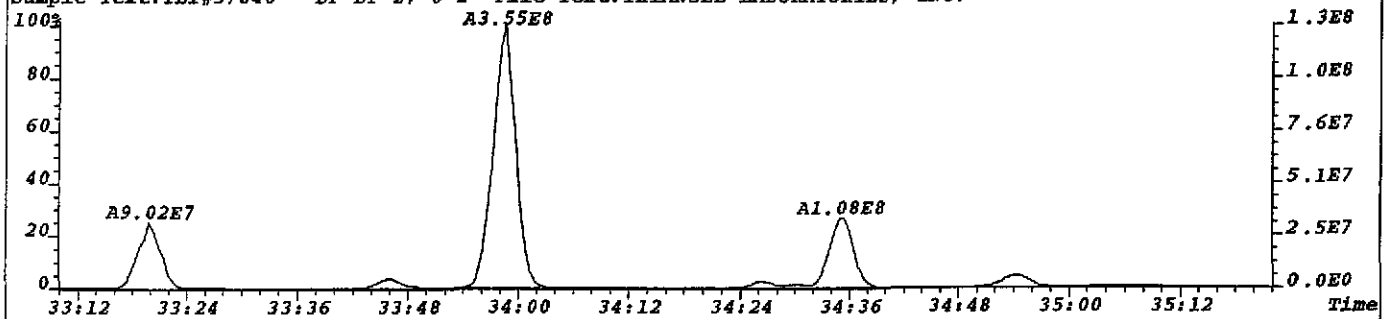
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TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



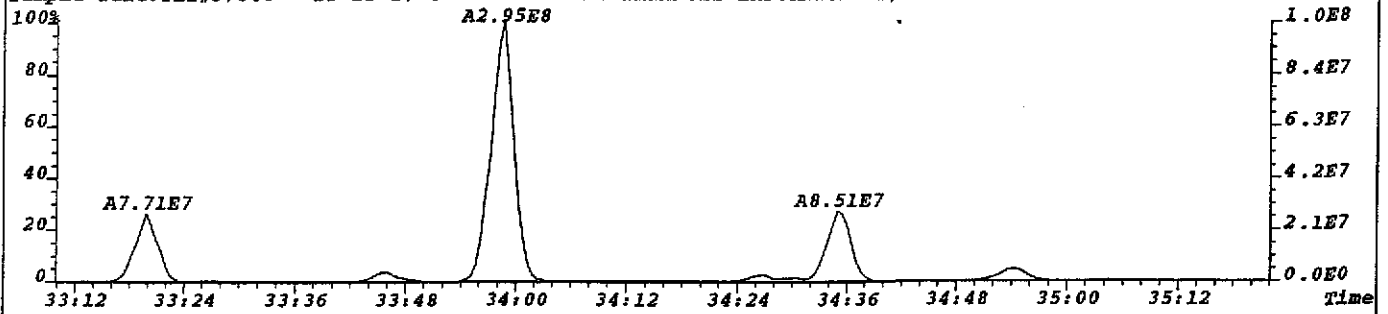
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445.7555 S:11 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



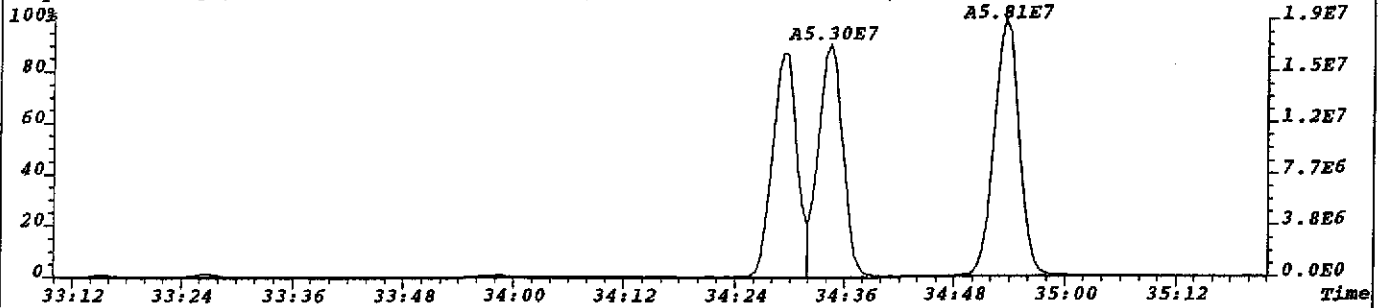
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389.8156 S:11 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,84000.0,1.00%,F,T) Exp:NDB5US Noise:21000
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



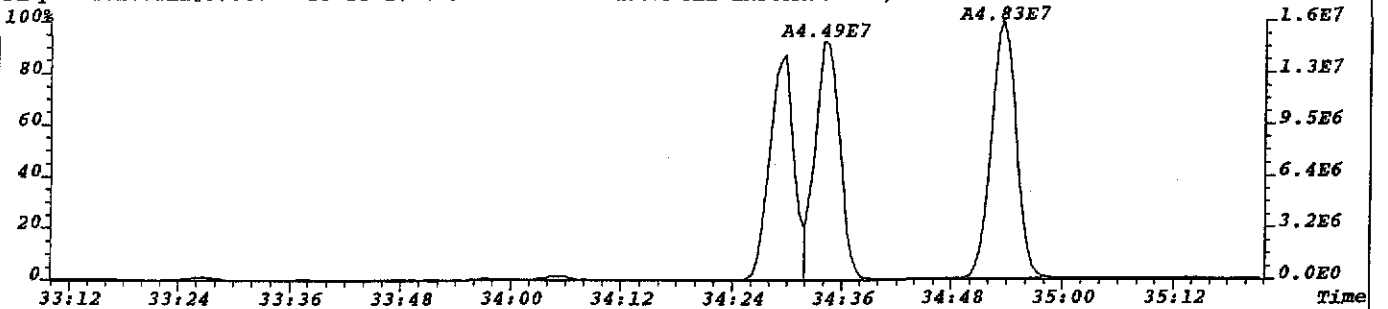
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391.8127 S:11 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,61780.0,1.00%,F,T) Exp:NDB5US Noise:15445
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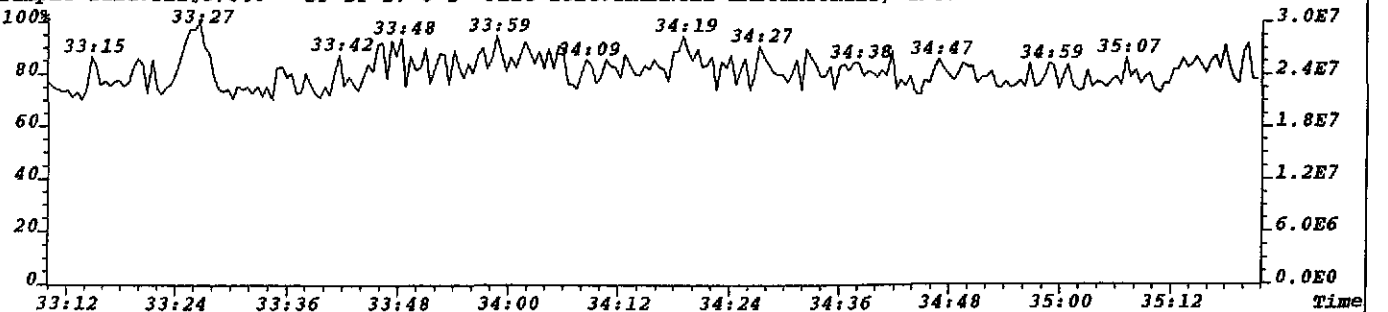
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401.8558 S:11 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,44392.0,1.00%,F,T) Exp:NDB5US Noise:11098
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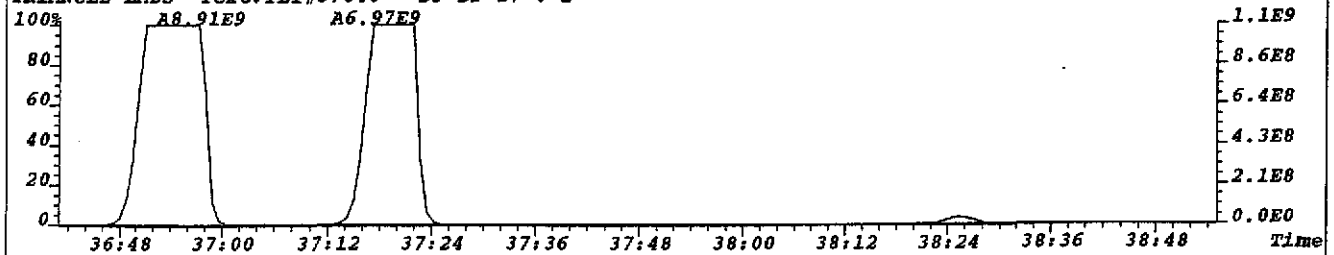
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403.8529 S:11 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,46092.0,1.00%,F,T) Exp:NDB5US Noise:11523
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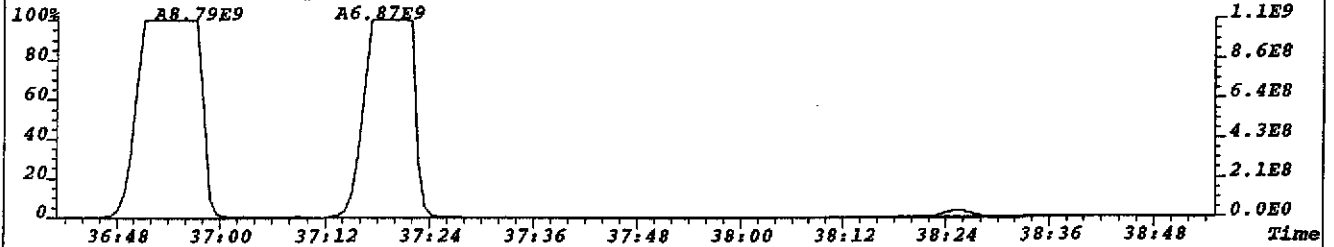
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392.9760 S:11 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



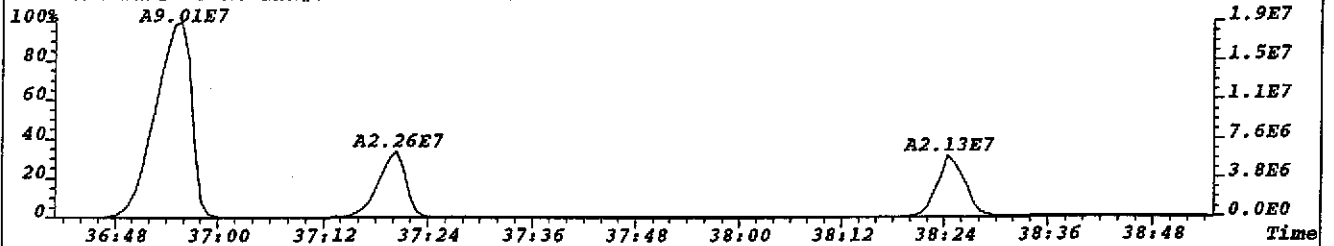
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S Noise:37237
407.7818 S:11 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,148948.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



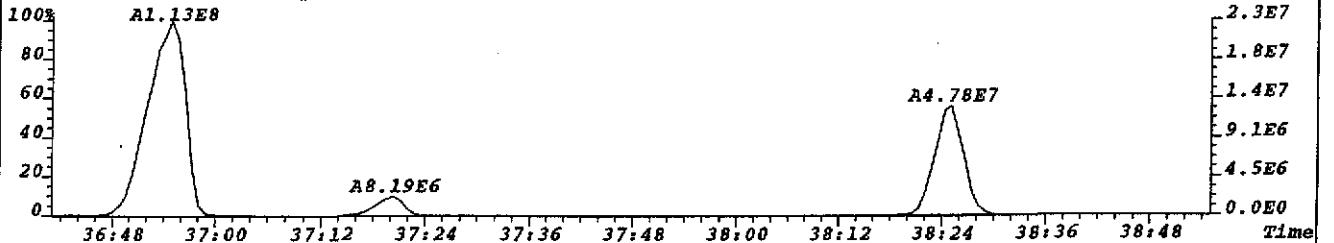
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S Noise:30182
409.7789 S:11 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,120728.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



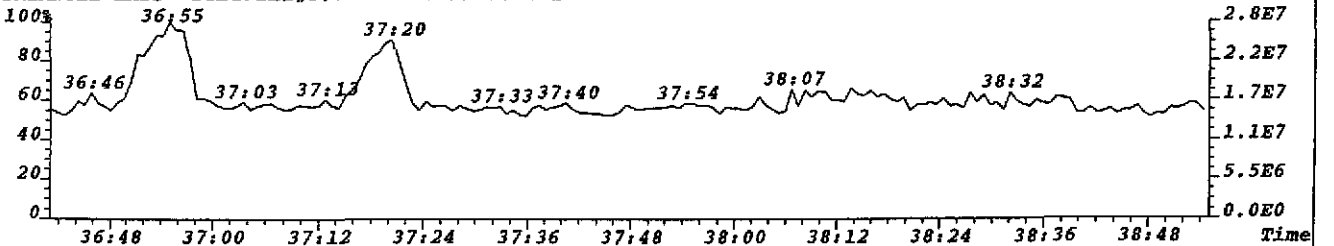
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S Noise:3173
417.8253 S:11 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,12692.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



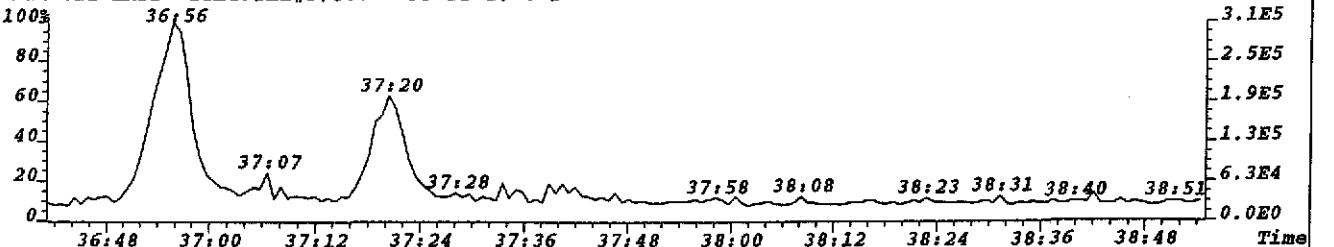
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S Noise:3699
419.8220 S:11 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,14796.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



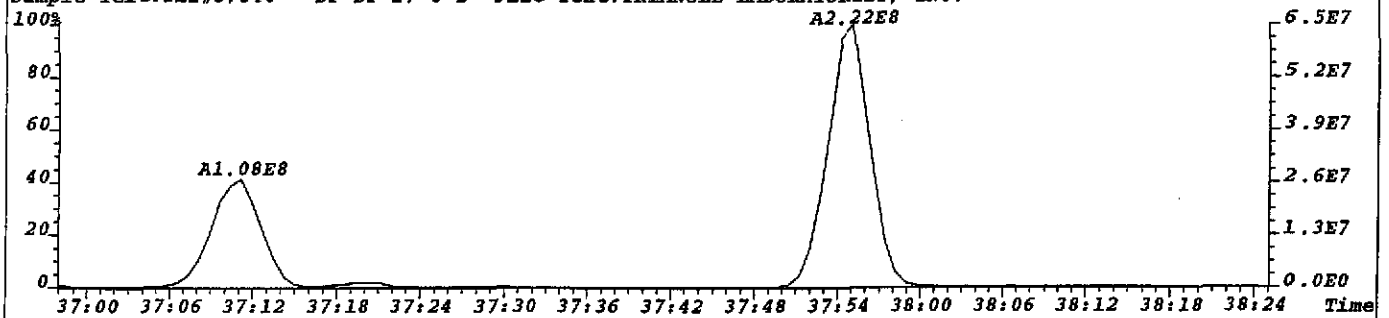
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
430.9729 S:11 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



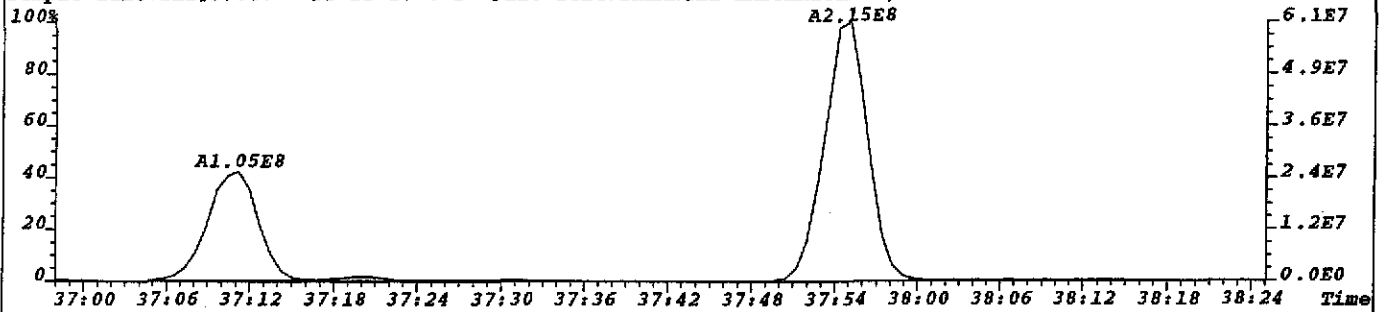
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
479.7165 S:11 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-27 0-2'



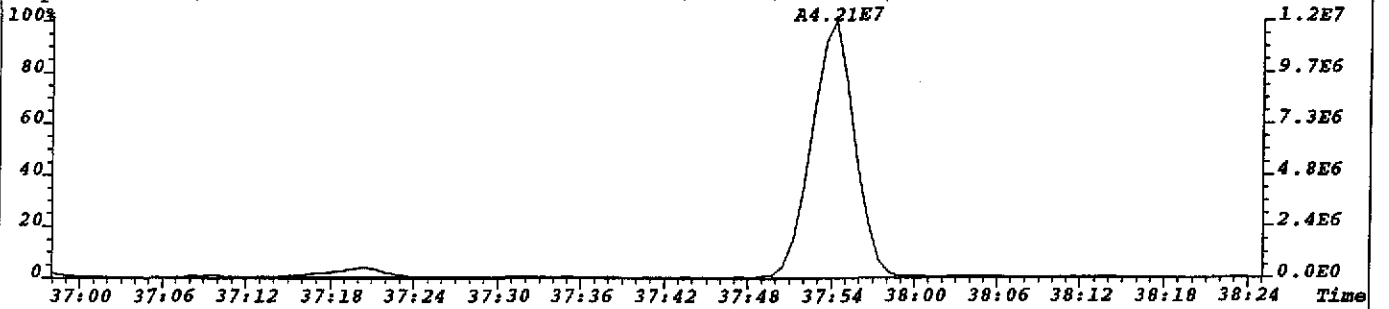
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
423.7766 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,37960.0,1.00%,F,T) Exp:NDB5US Noise:9490
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



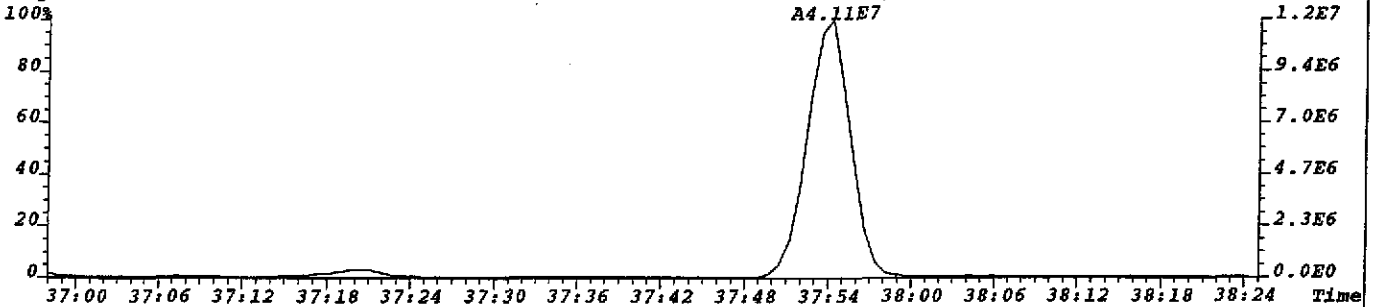
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
425.7737 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,33984.0,1.00%,F,T) Exp:NDB5US Noise:8496
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



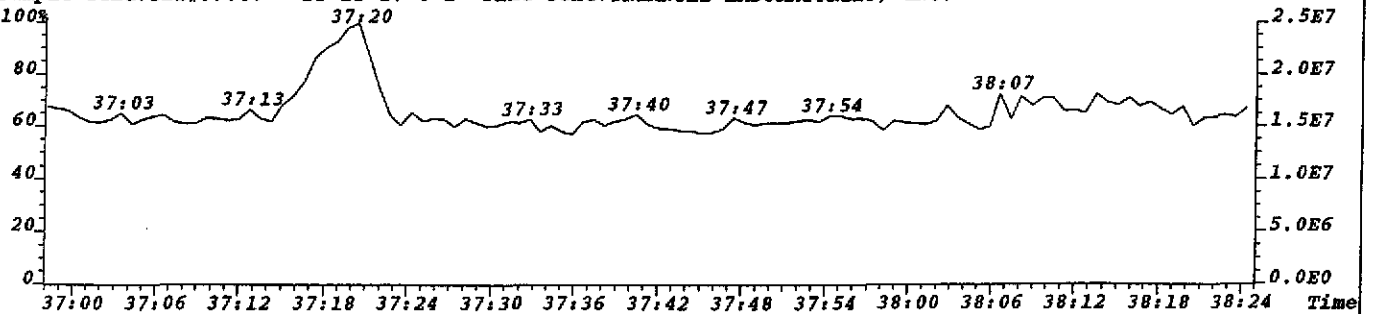
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
435.8169 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,35604.0,1.00%,F,T) Exp:NDB5US Noise:8901
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



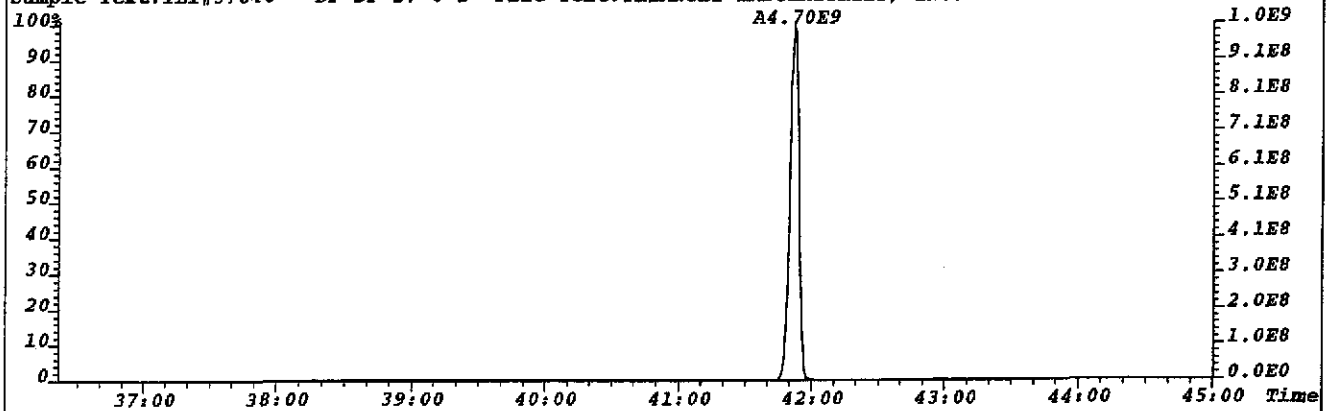
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
437.8140 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,39568.0,1.00%,F,T) Exp:NDB5US Noise:9892
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



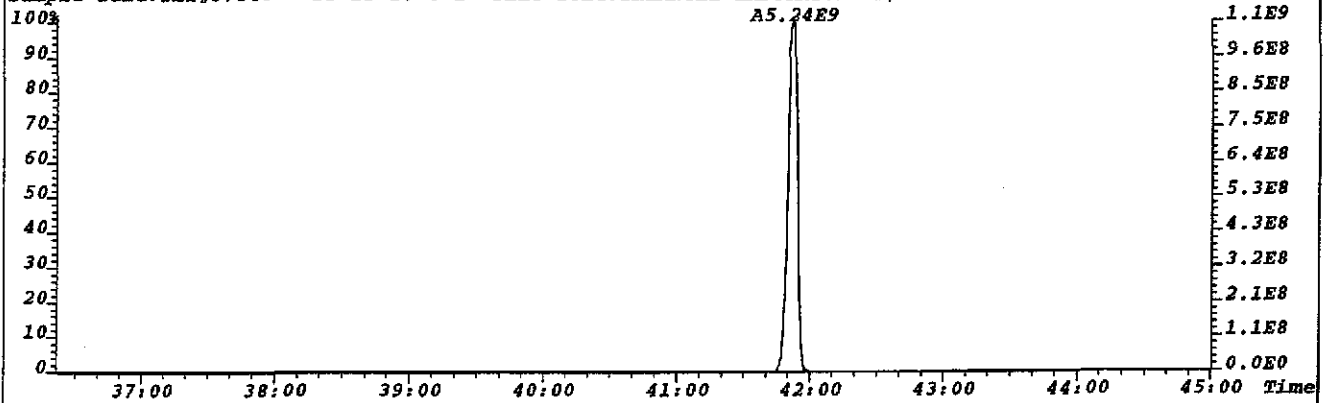
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
430.9729 S:11 F:4 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



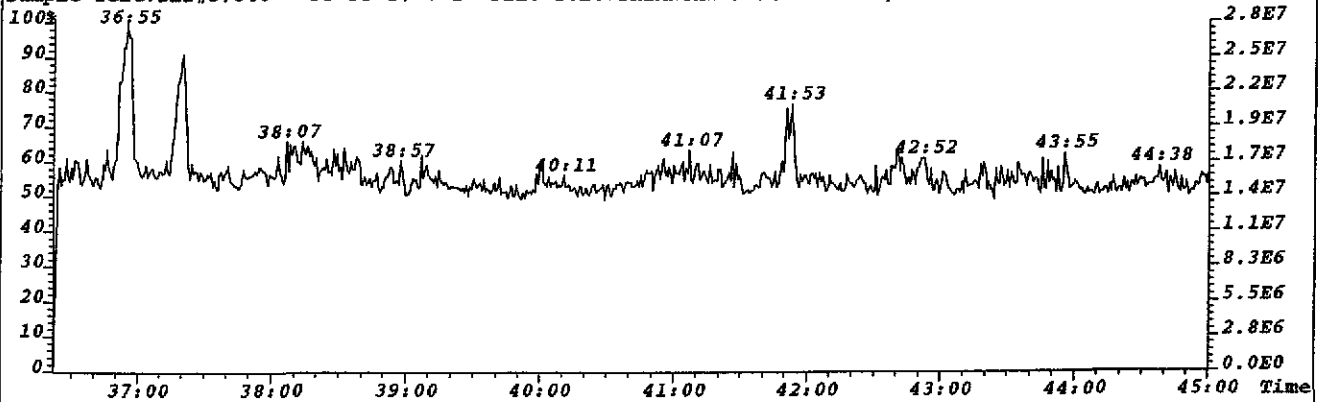
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S Noise:5789
441.7428 S:11 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,23156.0,1.00%,F,T) Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



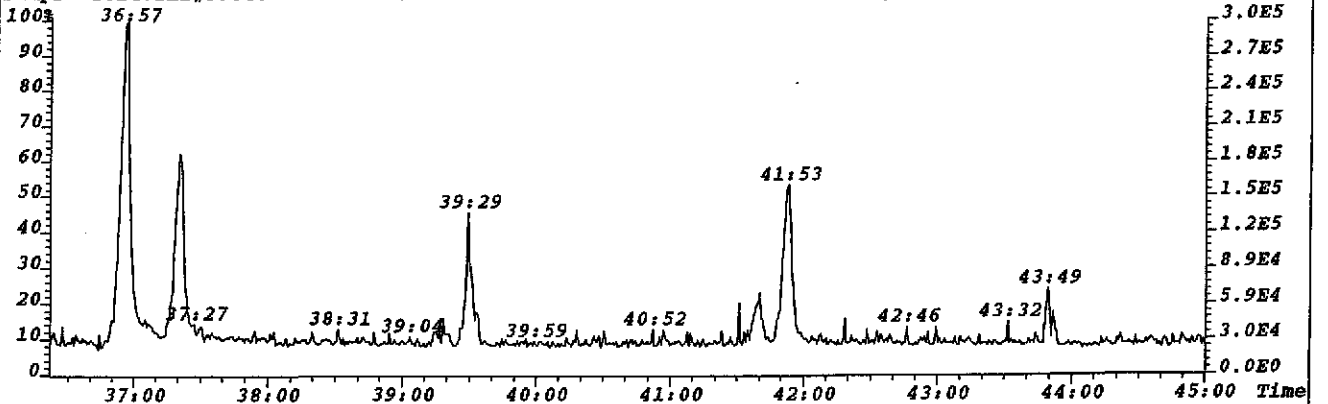
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S Noise:3707
443.7399 S:11 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,14828.0,1.00%,F,T) Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



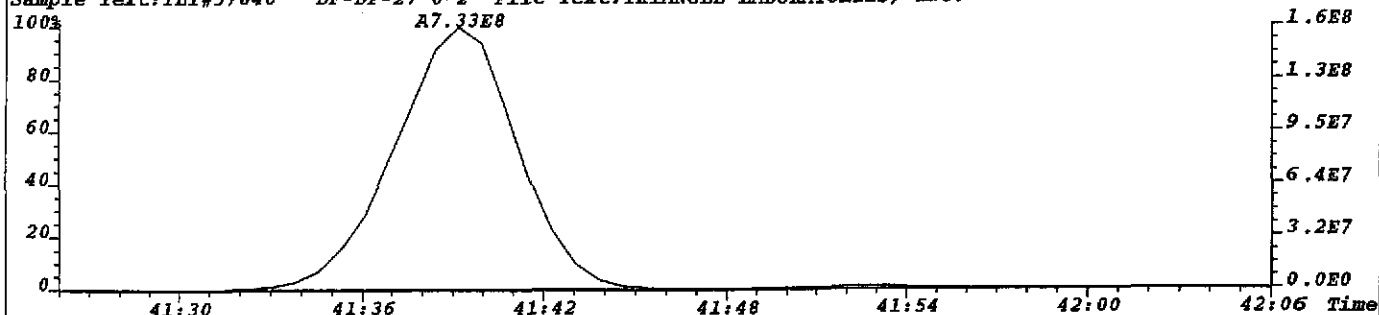
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
430.9729 S:11 F:4 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



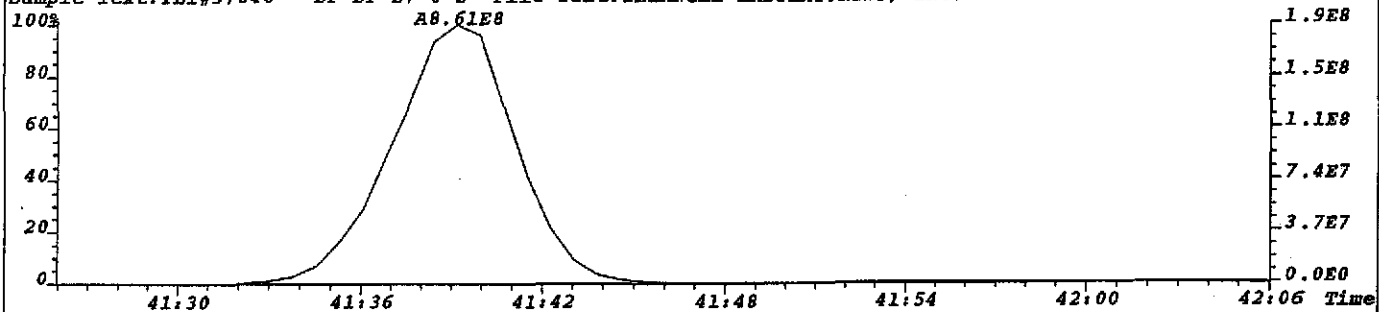
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
513.6775 S:11 F:4 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



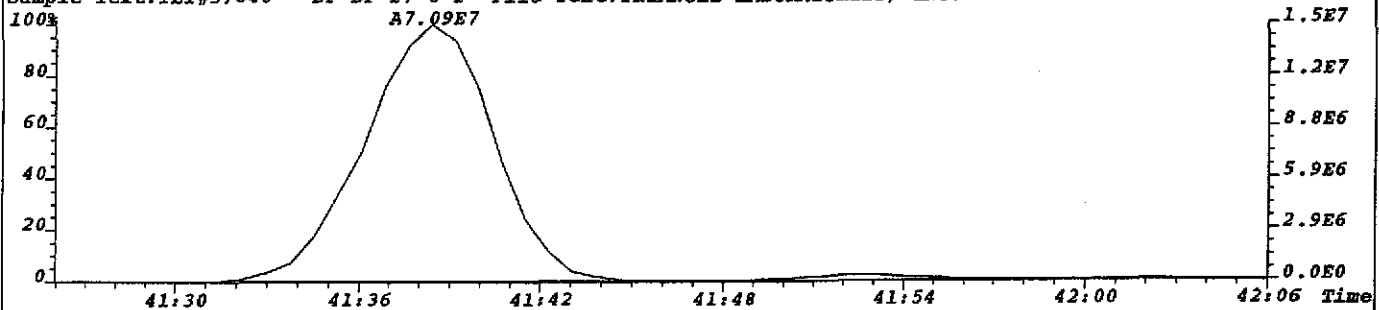
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
457.7377 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11100.0,1.00%,F,T) Exp:NDB5US Noise:2775
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



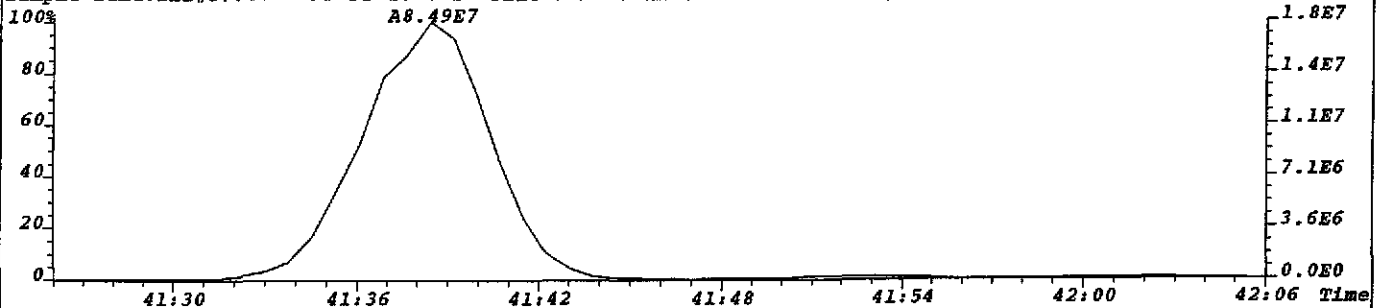
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
459.7348 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,12408.0,1.00%,F,T) Exp:NDB5US Noise:3102
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



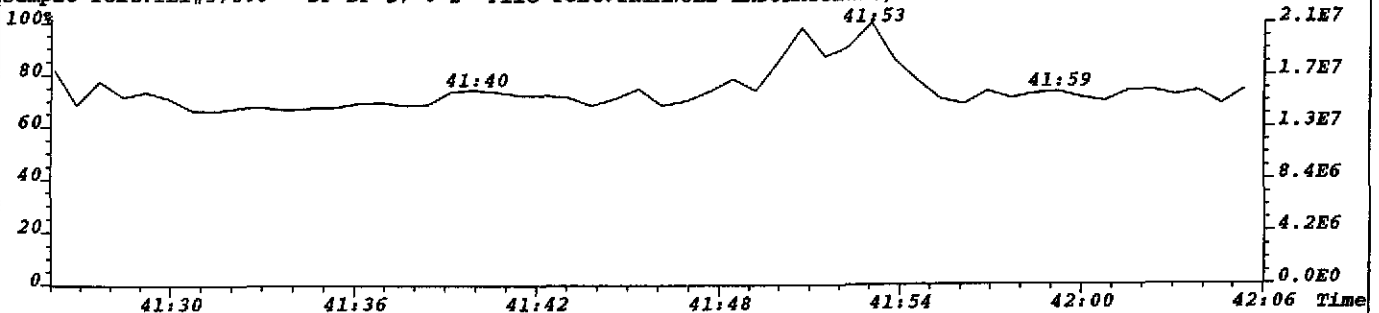
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
469.7779 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,15640.0,1.00%,F,T) Exp:NDB5US Noise:3910
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



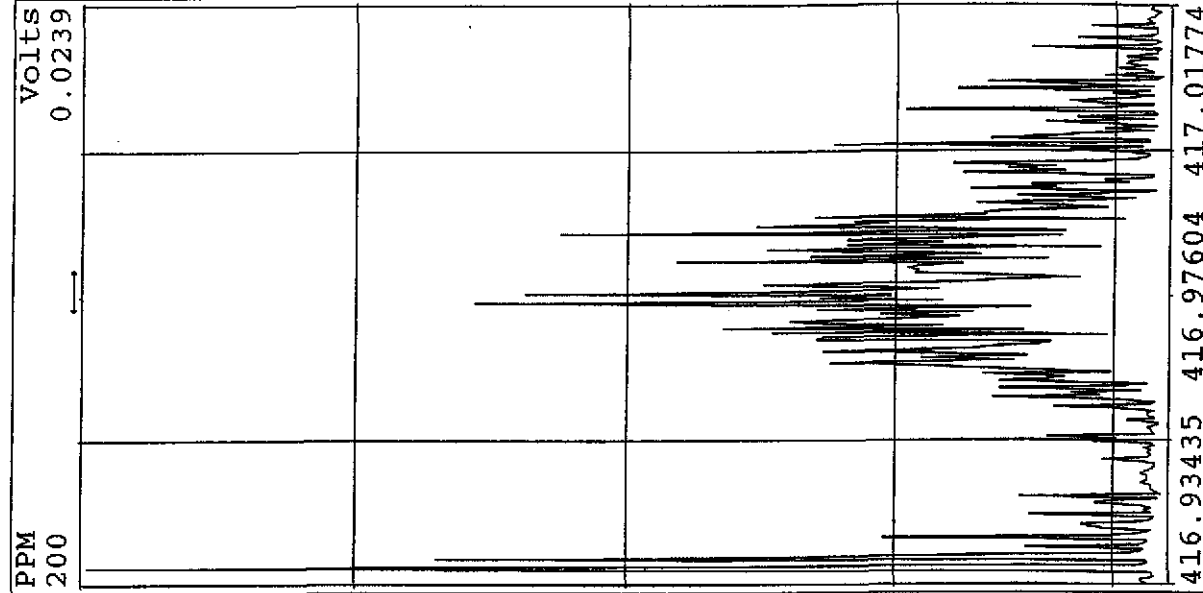
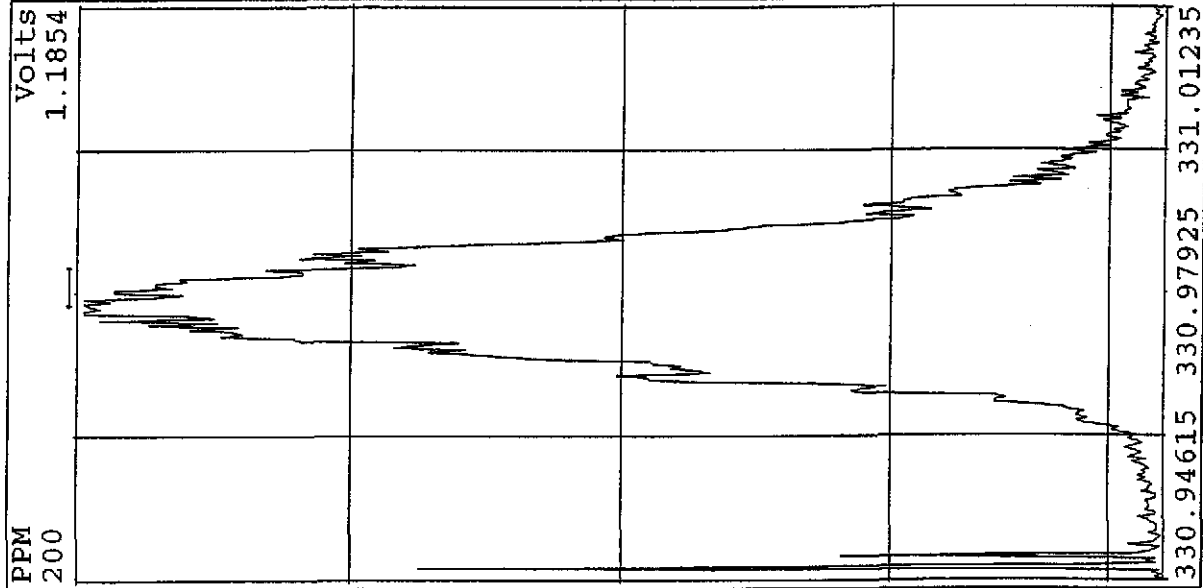
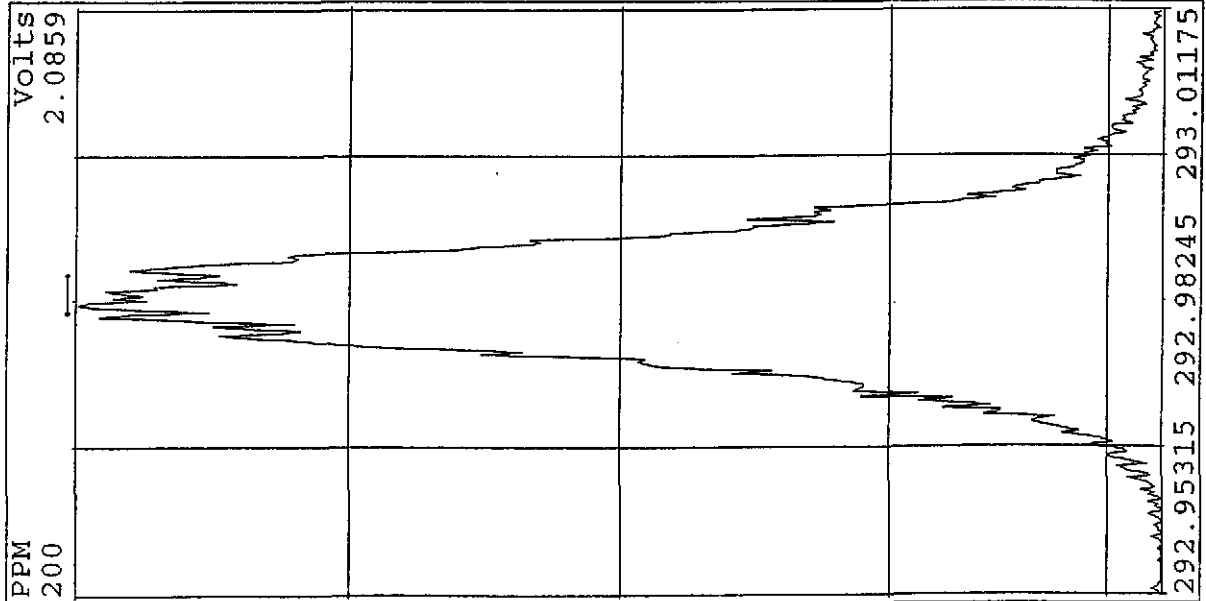
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471.7750 S:11 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,30400.0,1.00%,F,T) Exp:NDB5US Noise:7600
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



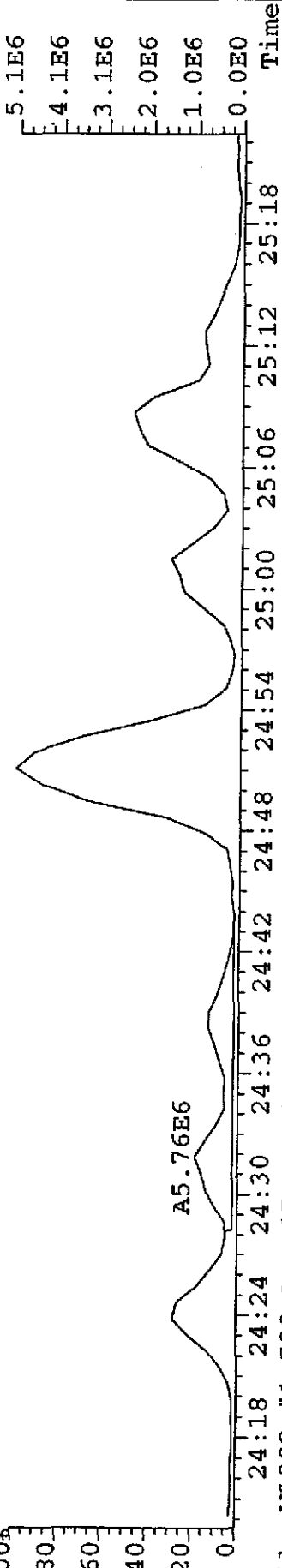
File:W1082 #1-674 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
430.9729 S:11 F:4 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



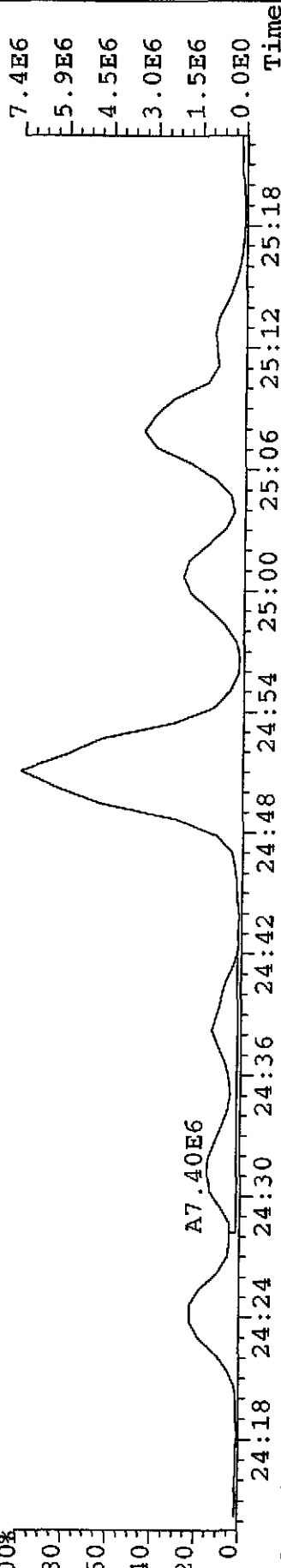
Peak Locate Examination: 17-JUL-2002:15:51 File: W1082
Experiment: NDB5US Function: 2 Reference: PFK



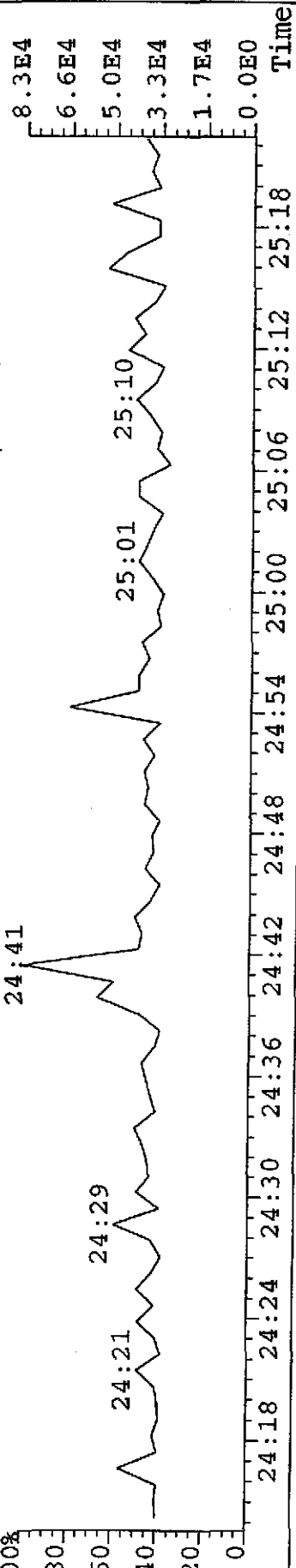
File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
303.9016 S:11 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
305.8987 S:11 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

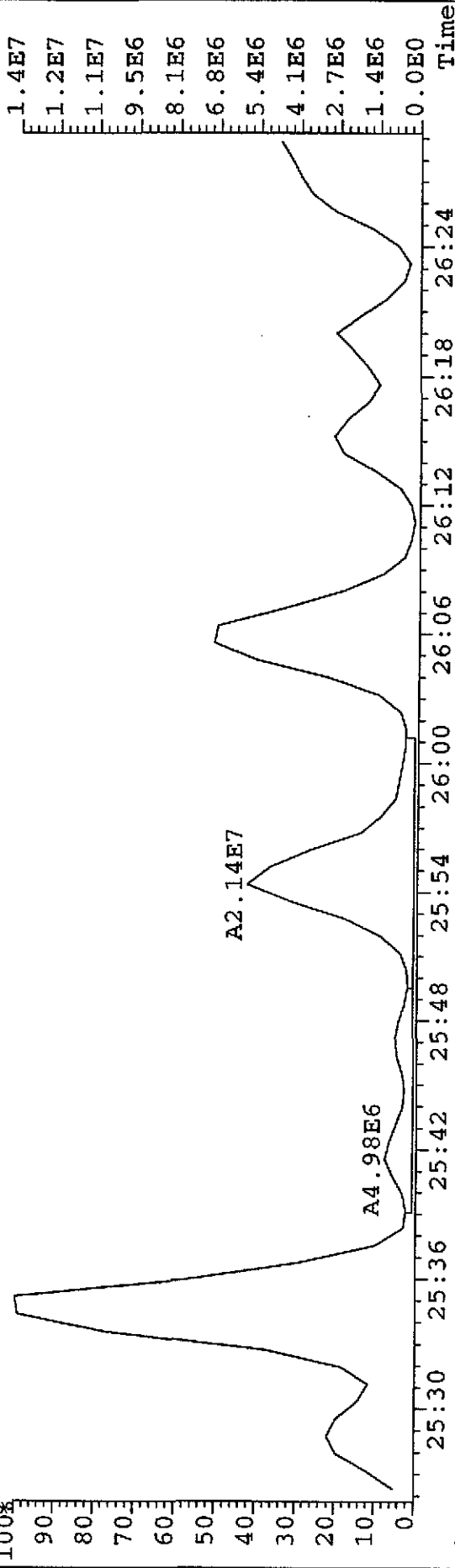


File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
317.9389 S:11 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

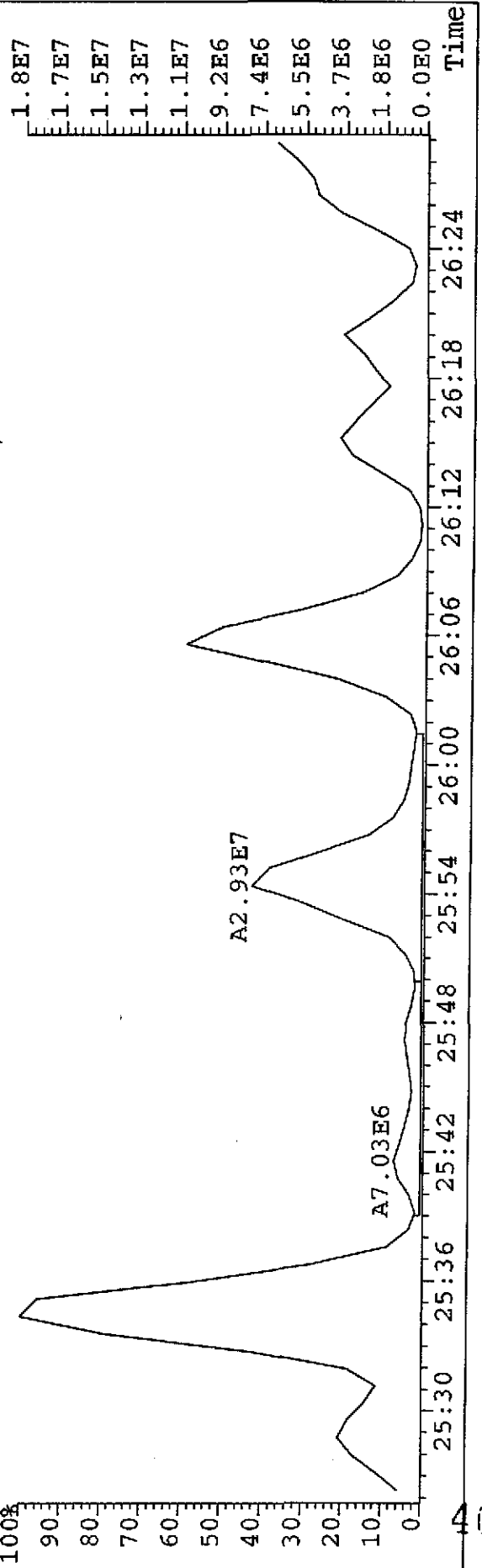


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File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
303.9016 S:11 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

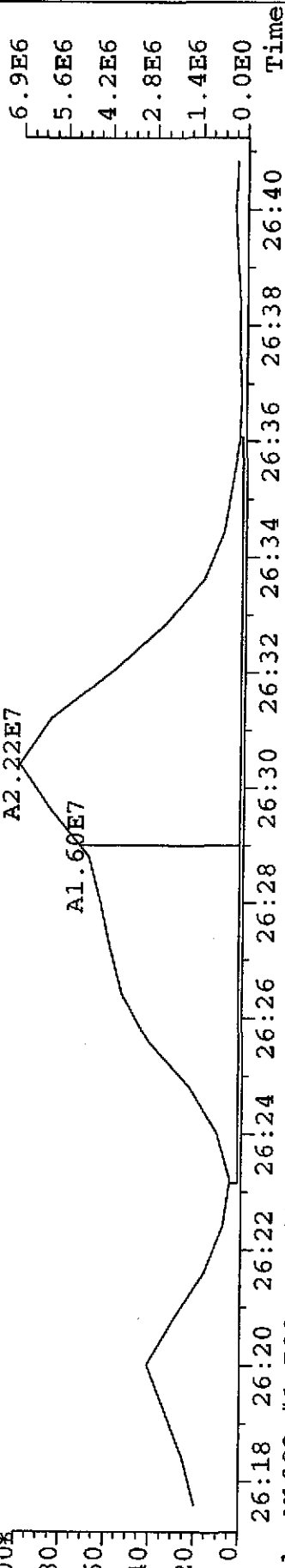


File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
305.8987 S:11 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

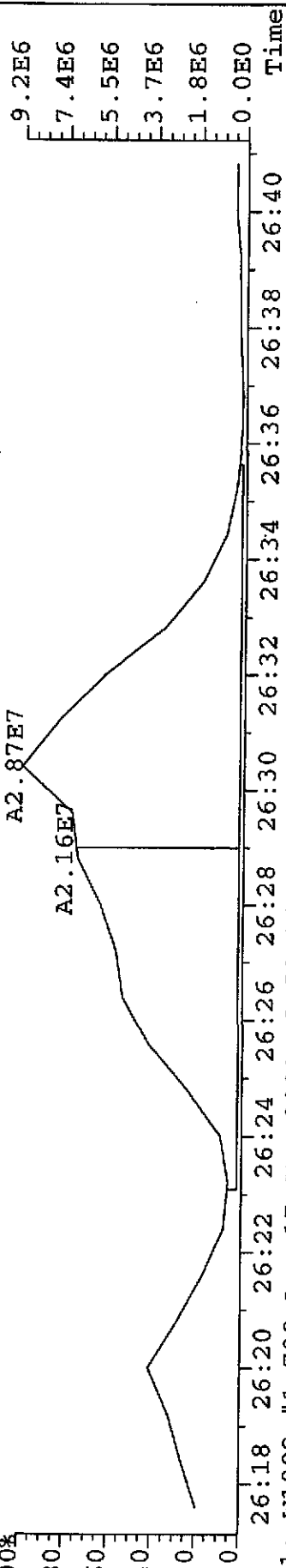


WMMI
7/18/02

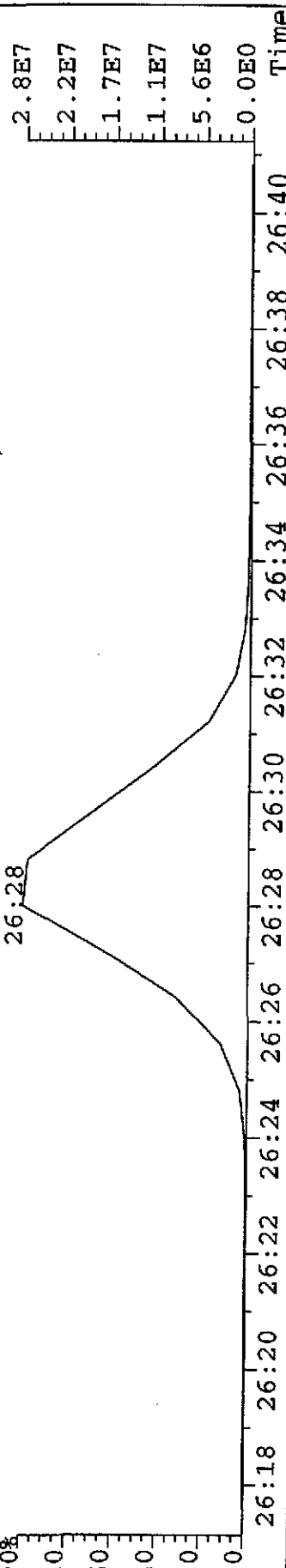
File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
 303.9016 S:11 F:2 Exp:NDB5US
 Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.
 100%



File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
 305.8987 S:11 F:2 Exp:NDB5US
 Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.
 100%

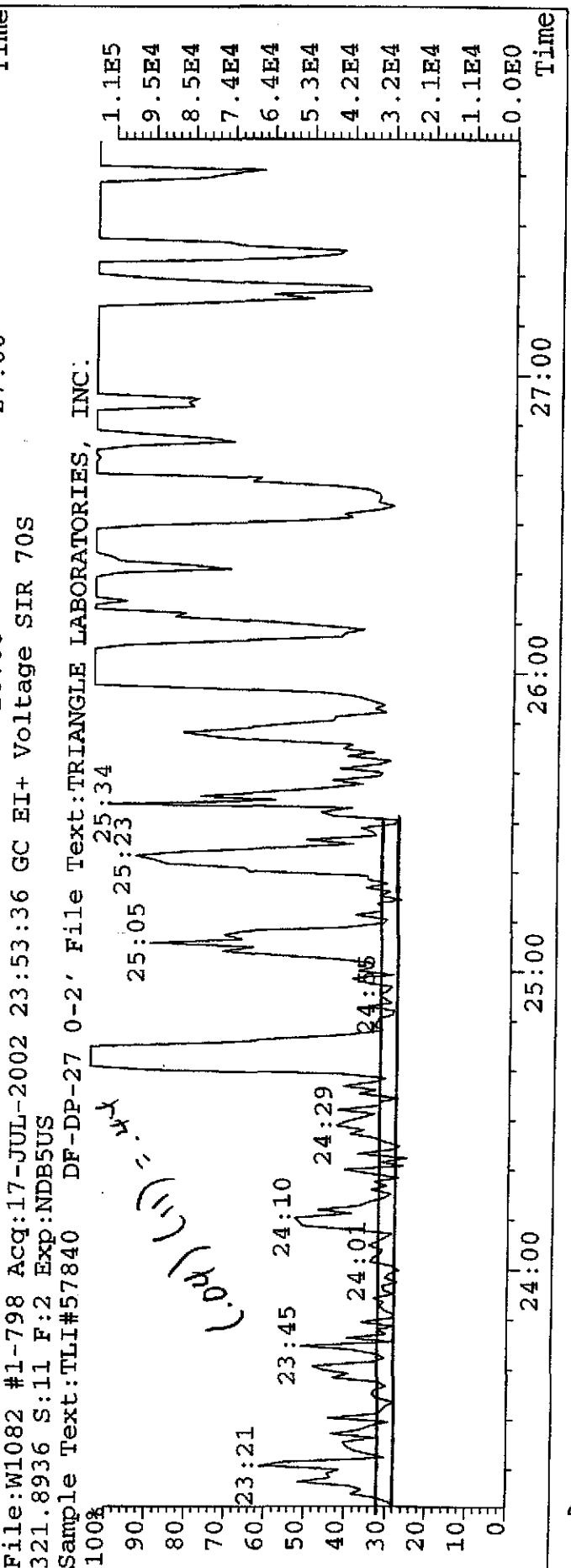
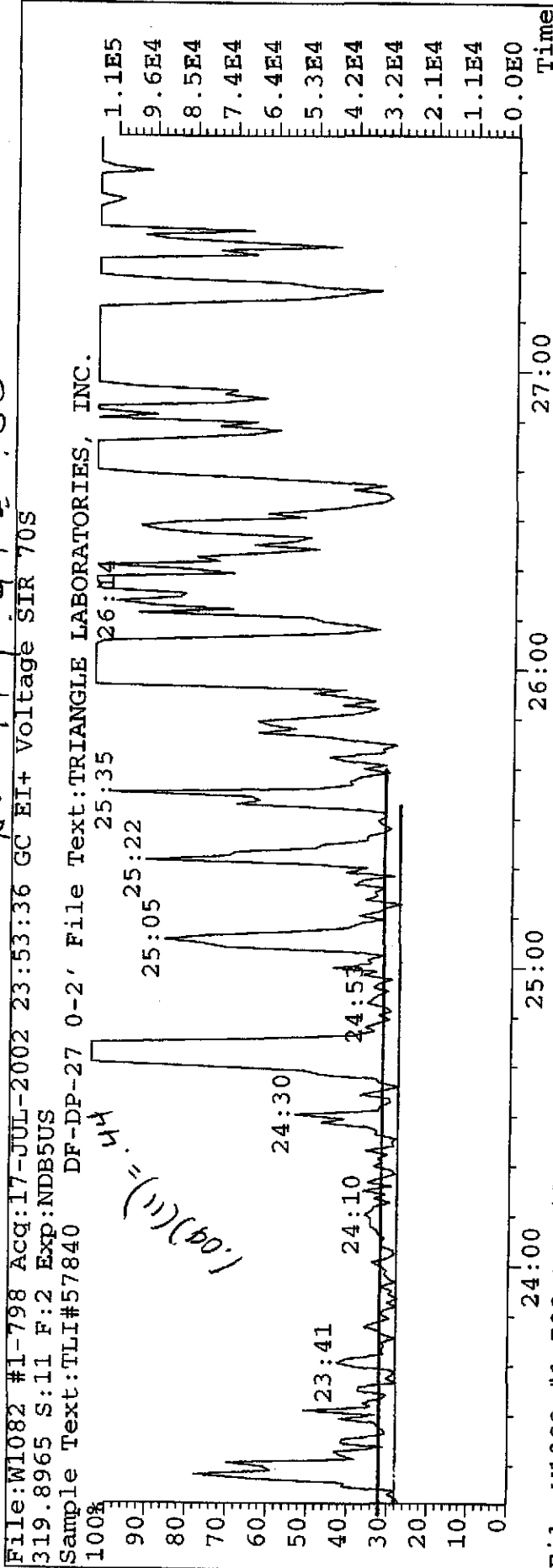


File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
 317.9389 S:11 F:2 Exp:NDB5US
 Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.
 100%



WARRANTY 7/18/02

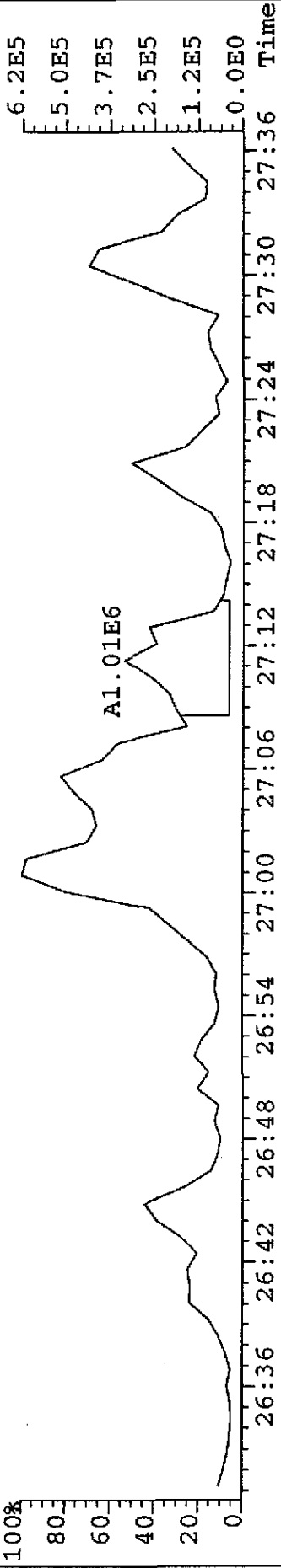
WMM
 7/18/02
 N = .44 + .44 = .88



File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S

319.8965 S:11 F:2 Exp:NDB5US

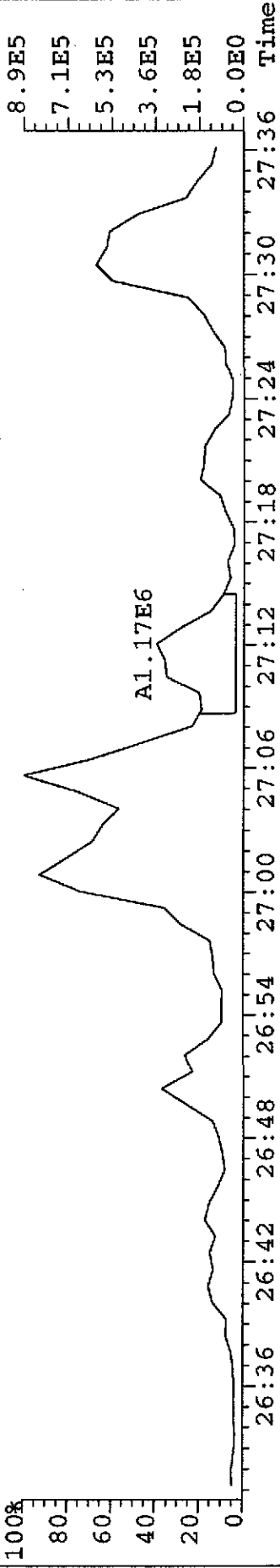
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S

321.8936 S:11 F:2 Exp:NDB5US

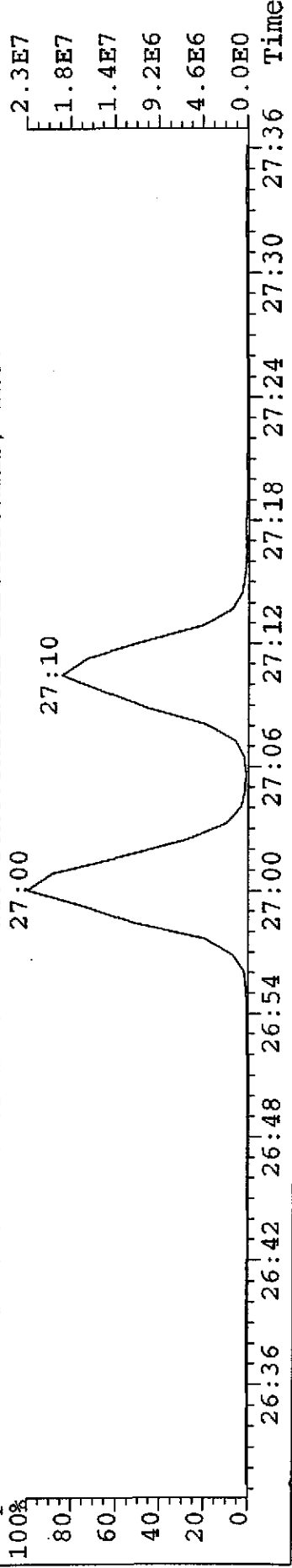
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S

331.9368 S:11 F:2 Exp:NDB5US

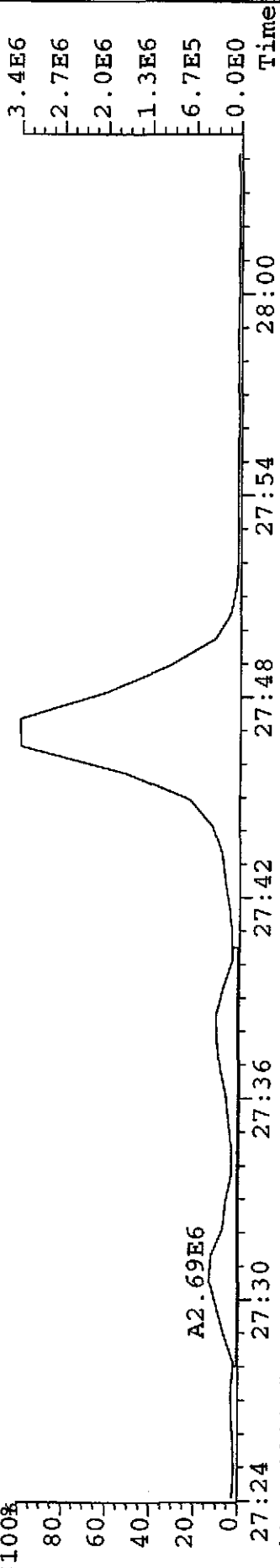
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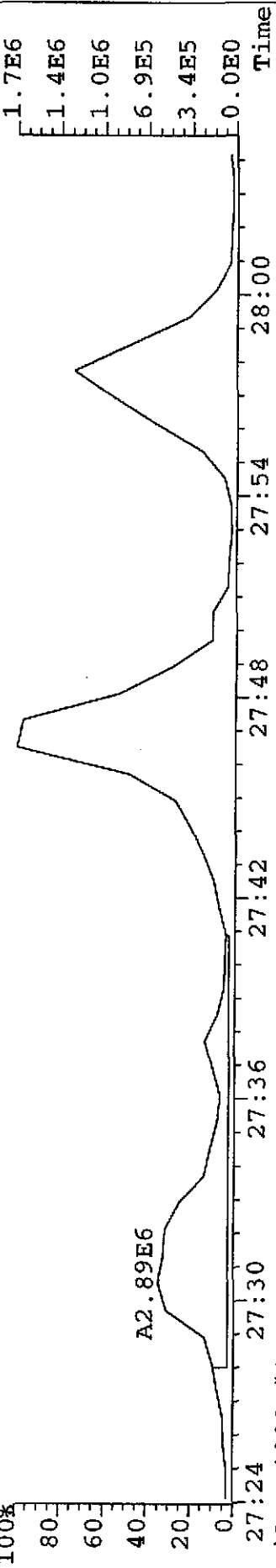
405

WATMS 7/18/02

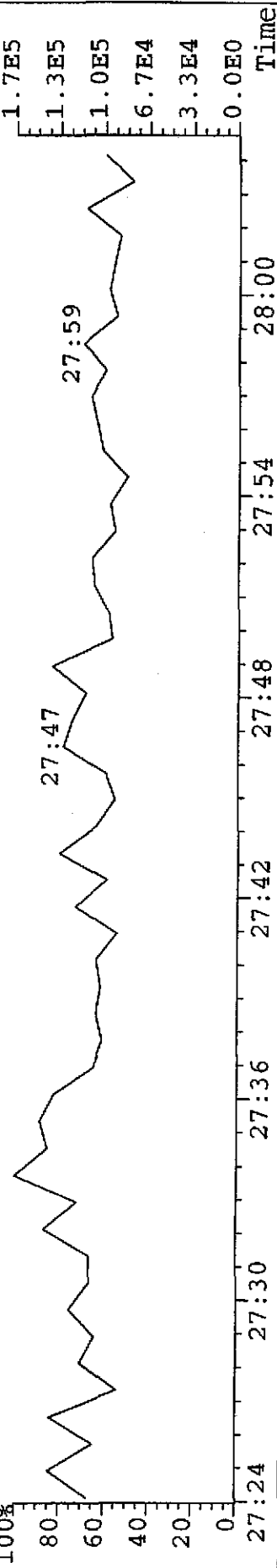
File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
319.8965 S:11 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
321.8936 S:11 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
331.9368 S:11 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



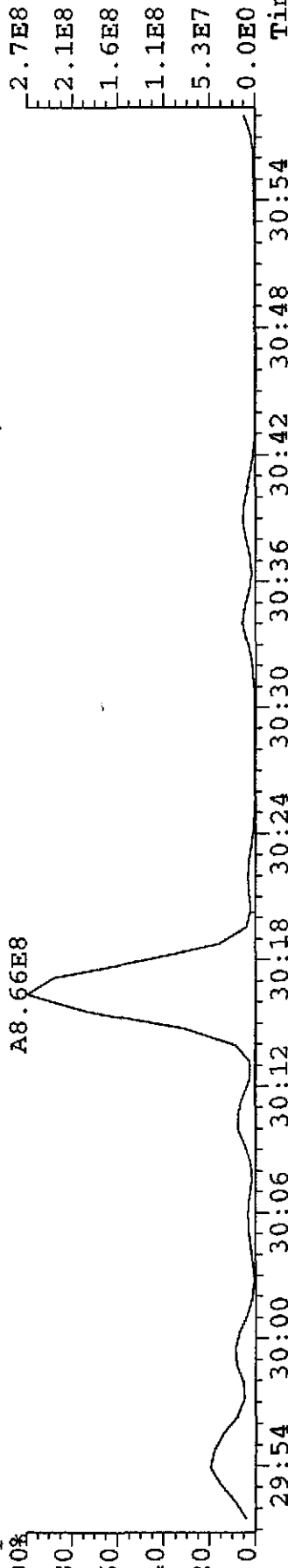
WAMT 7/18/02

File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S

339.8597 S:11 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

A8.66E8

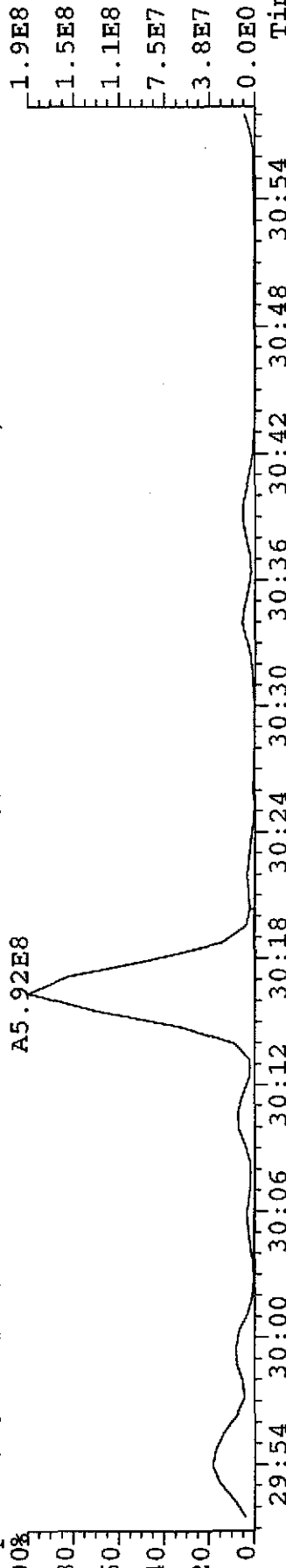


File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S

341.8567 S:11 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

A5.92E8

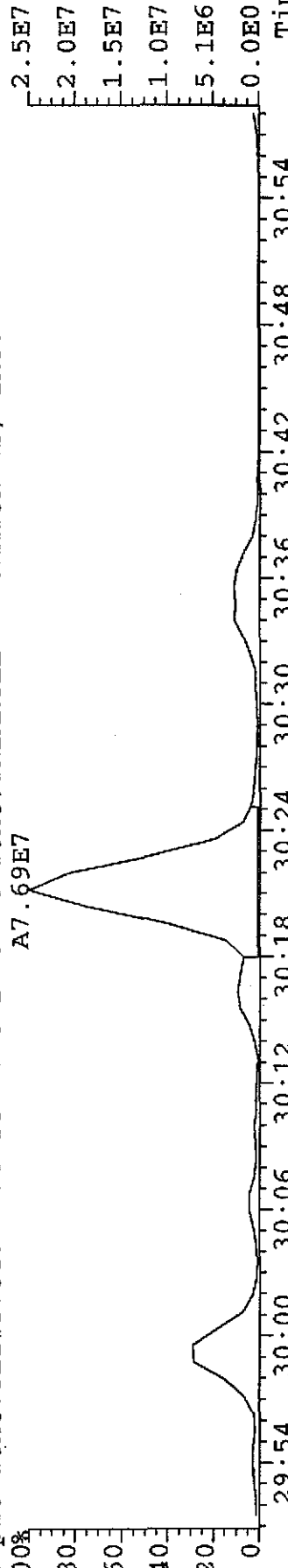


File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S

353.8970 S:11 F:2 Exp:NDB5US

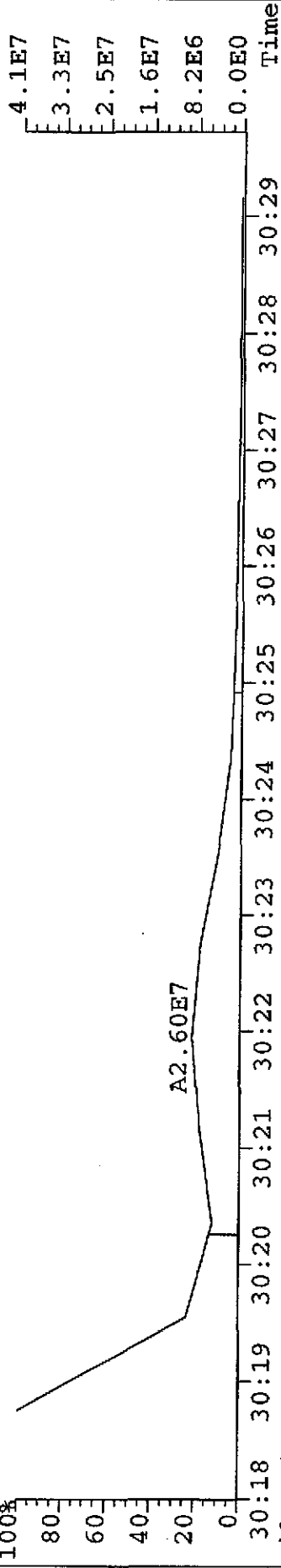
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

A7.69E7

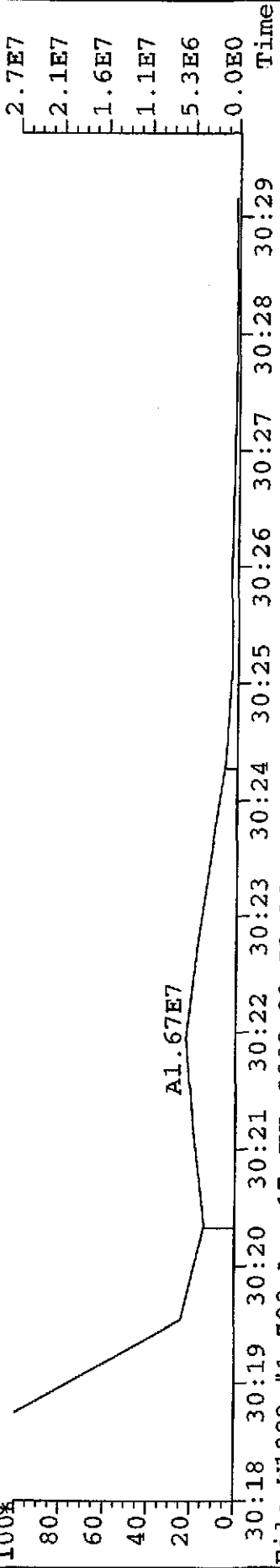


WAMI 7/18/02

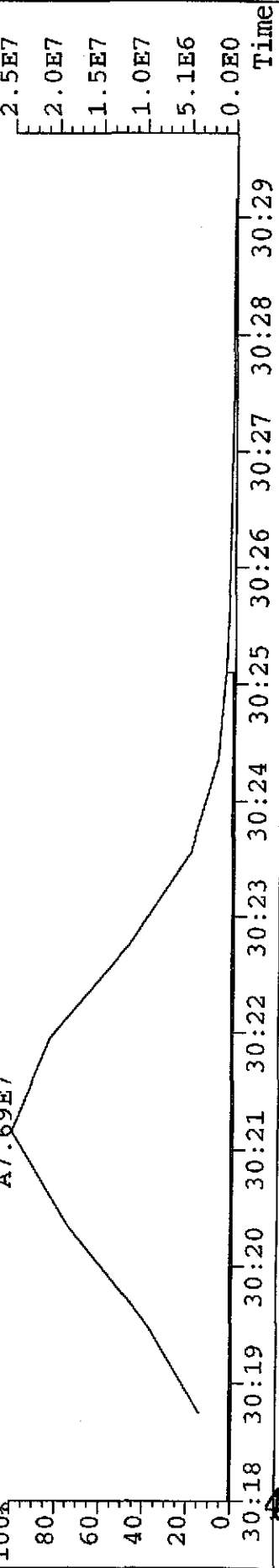
File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
339.8597 S:11 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
341.8567 S:11 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
353.8970 S:11 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



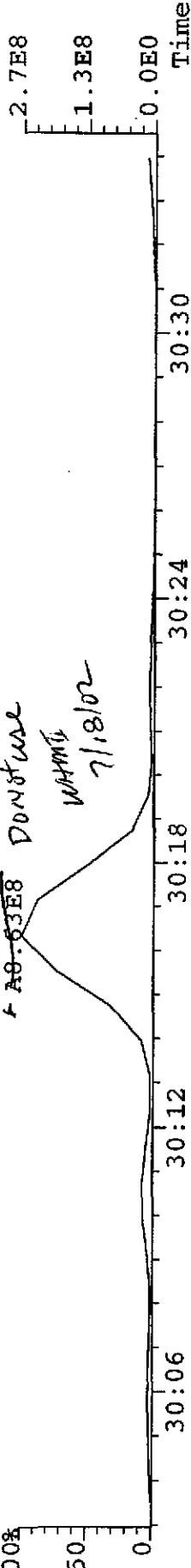
WARRANTY 7/18/02

File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S

339.8597 S:11 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

100% ~~A9-63E8~~ *WMMG* *7/18/02*

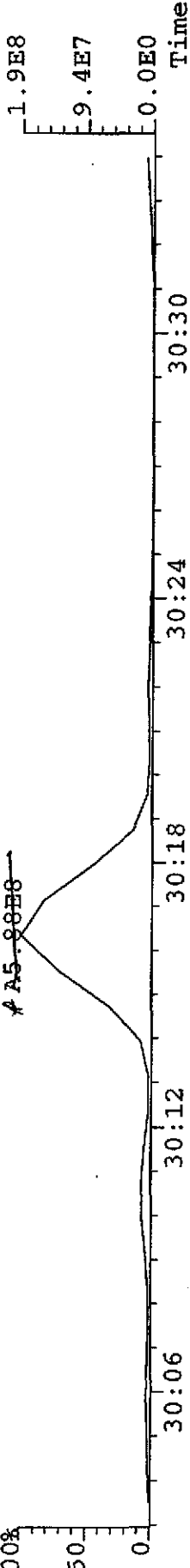


File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S

341.8567 S:11 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

100% ~~A5-98E8~~

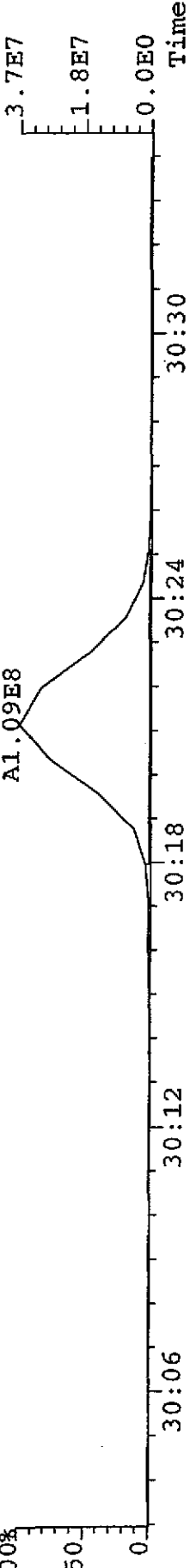


File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S

351.9000 S:11 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

100% A1.09E8

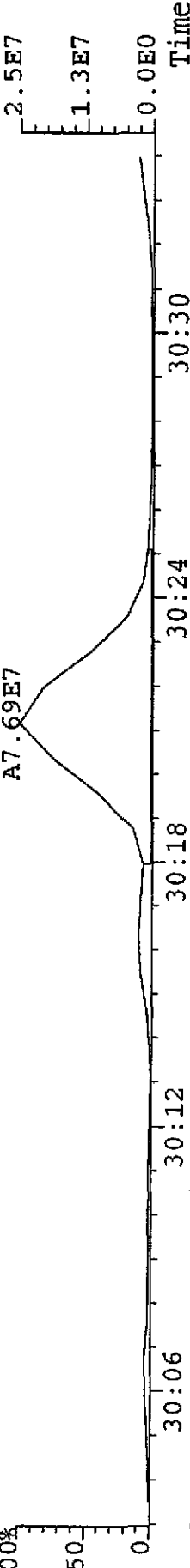


File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S

353.8970 S:11 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

100% A7.69E7



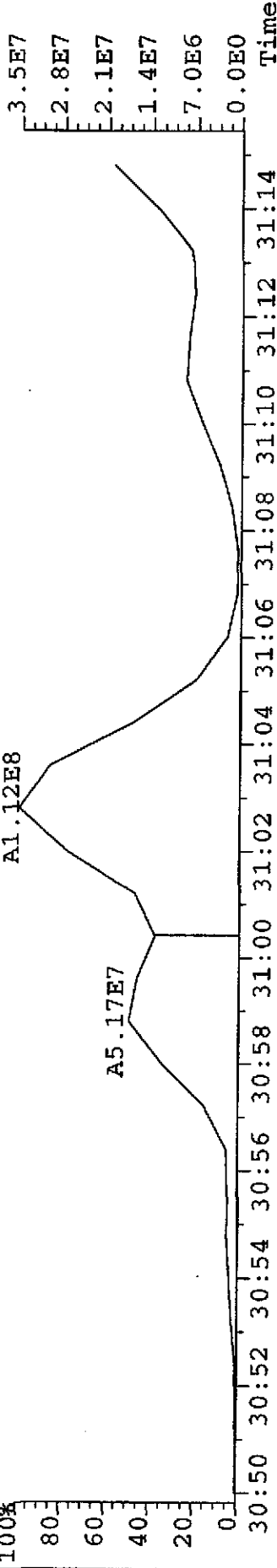
WMMG
7/18/02

File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S

339.8597 S:11 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

100% A1.12E8

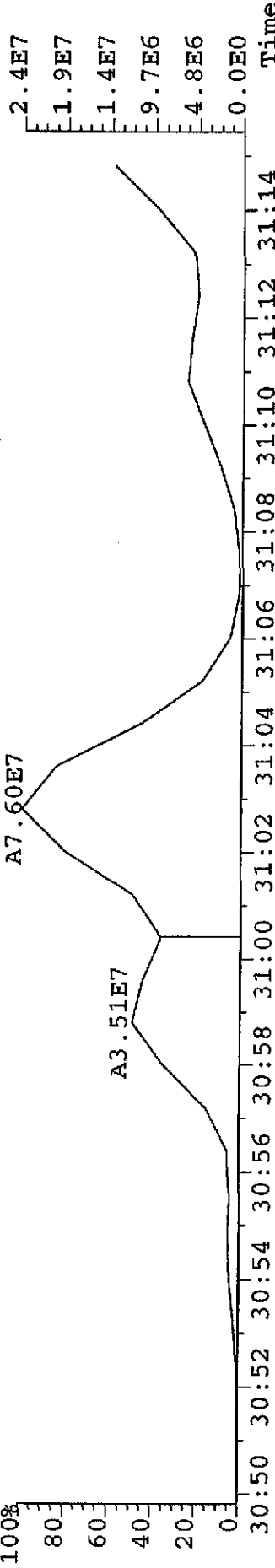


File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S

341.8567 S:11 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

100% A7.60E7

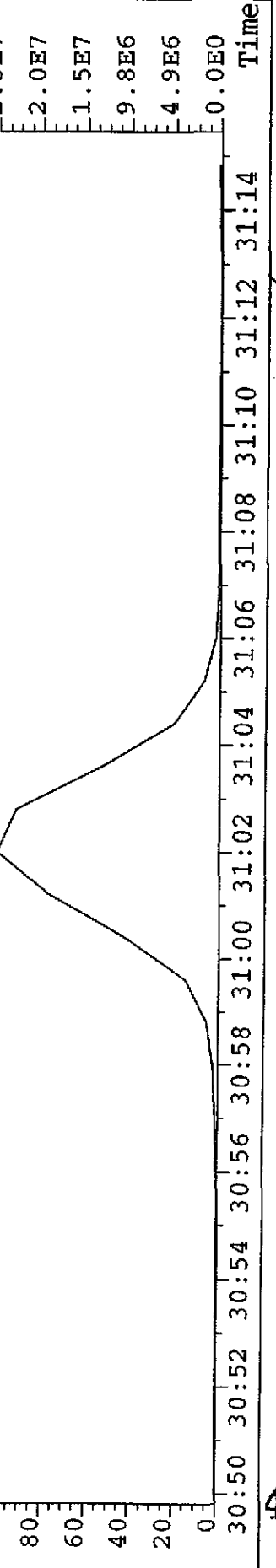


File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S

353.8970 S:11 F:2 Exp:NDB5US

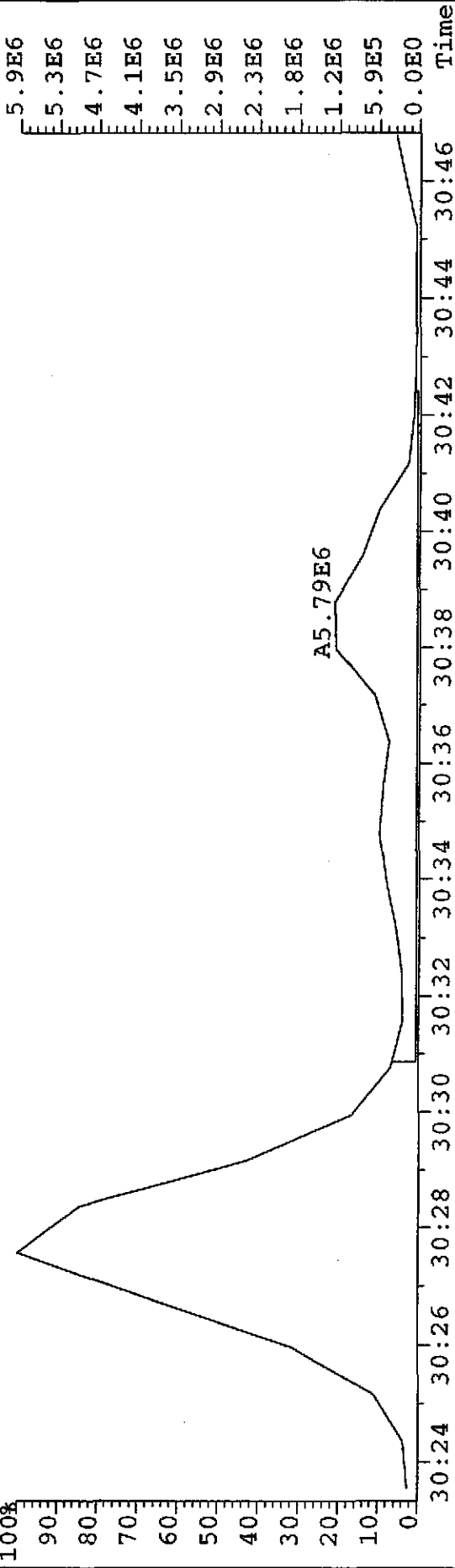
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

100% 31:02

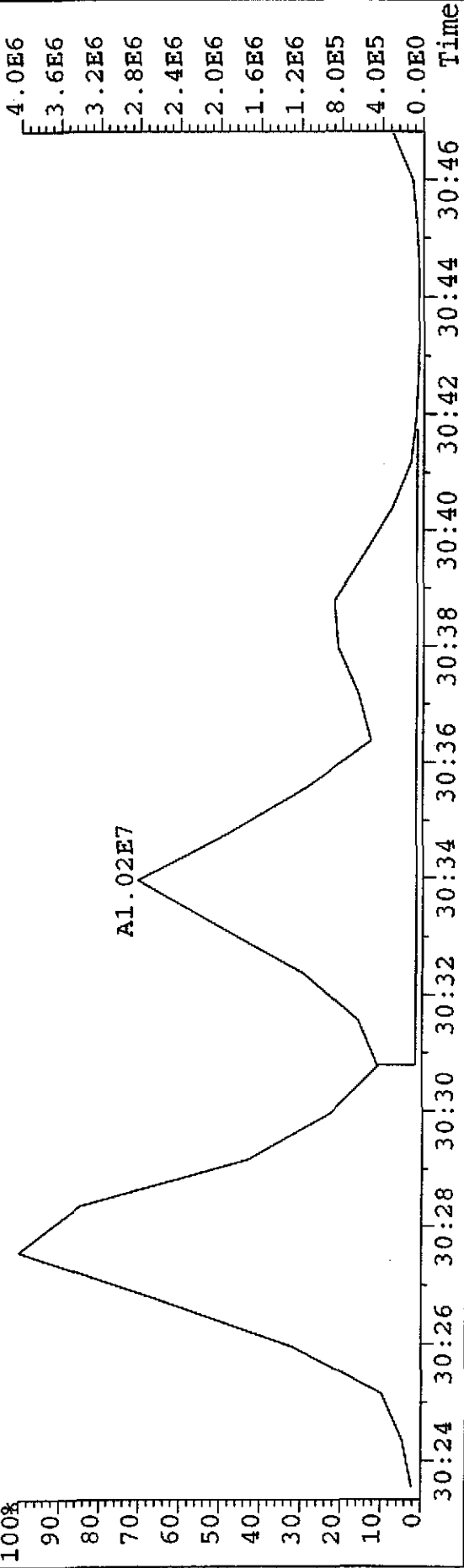


WAVES 7/10/02

File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
355.8546 S:11 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

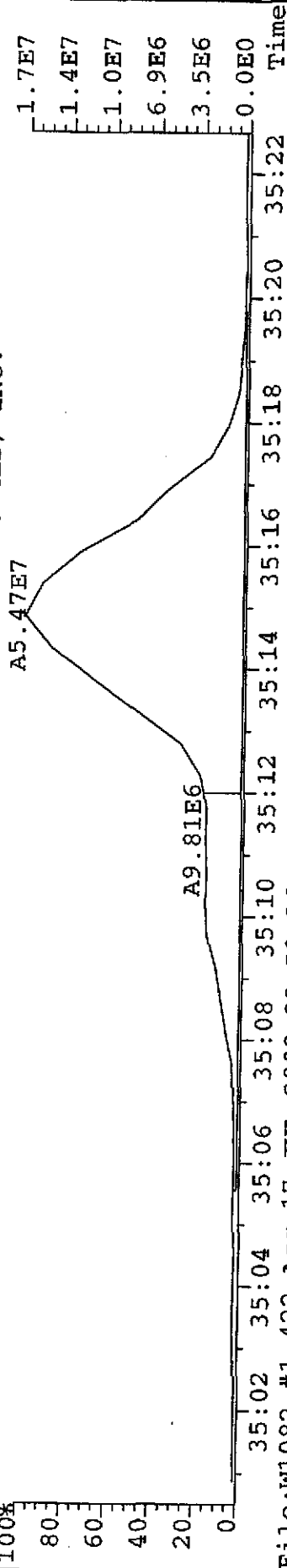


File:W1082 #1-798 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
357.8516 S:11 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

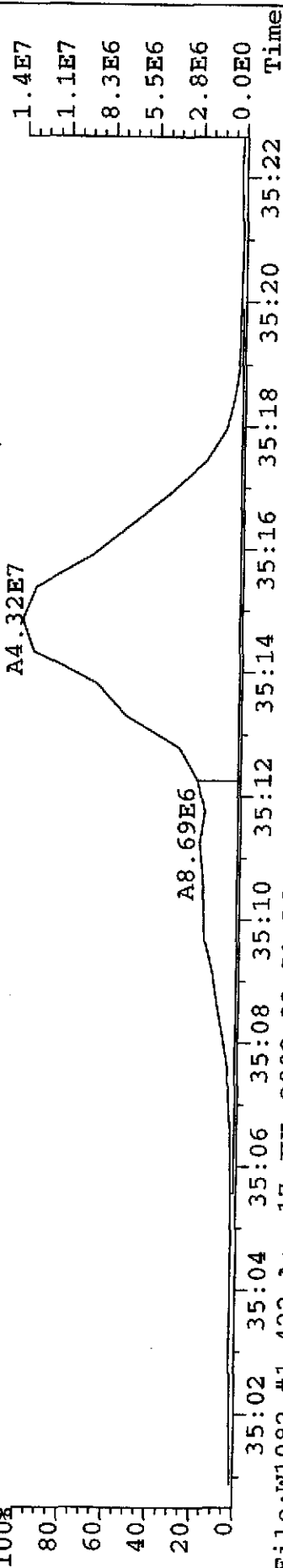


WAMIT 7/10/02

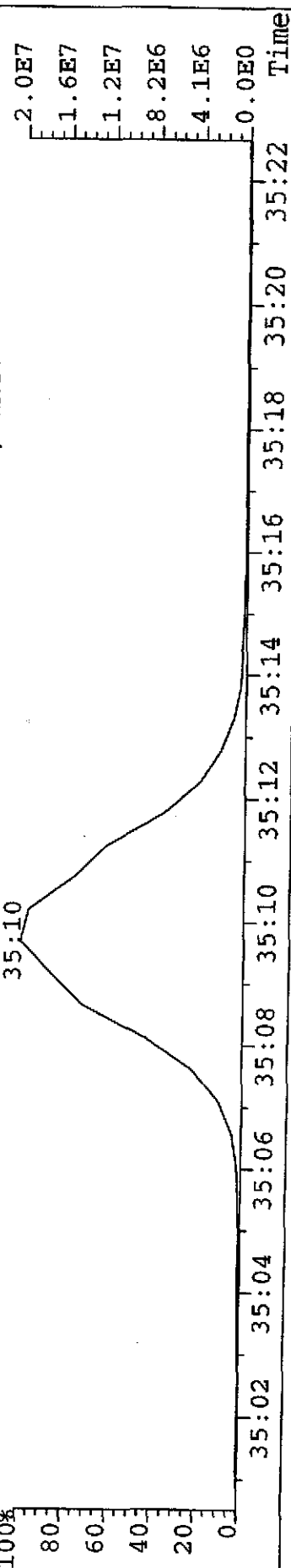
File:W1082 #1-422 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
373.8208 S:11 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-422 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
375.8178 S:11 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

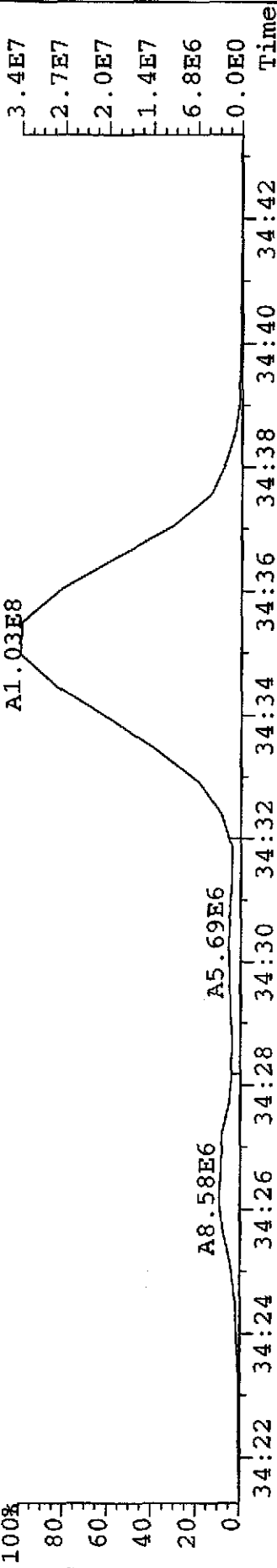


File:W1082 #1-422 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
385.8610 S:11 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

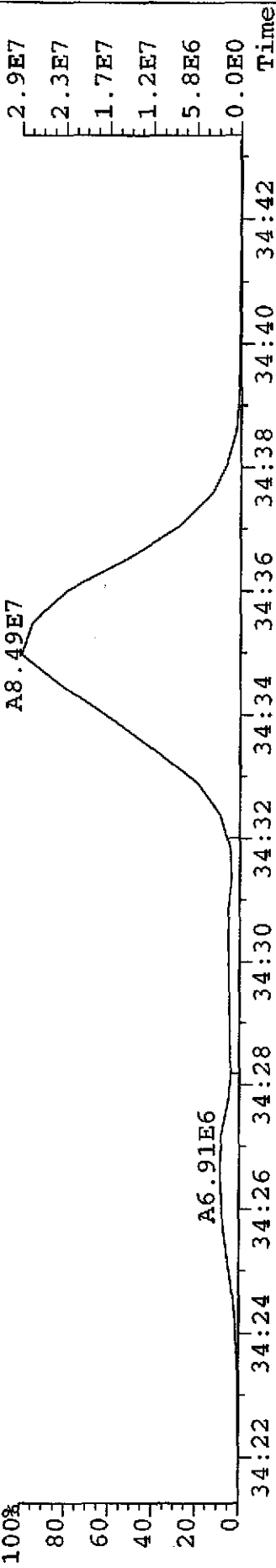


WAMT 7/18/02

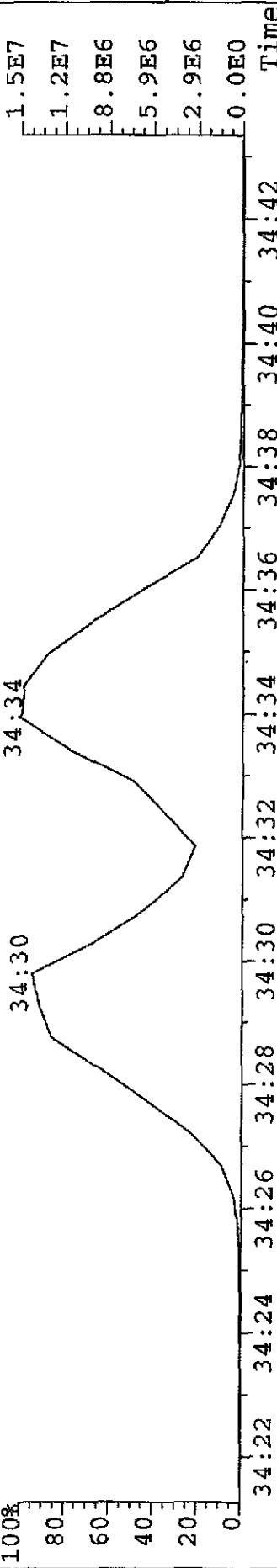
File:W1082 #1-422 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
389.8156 S:11 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-422 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
391.8127 S:11 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

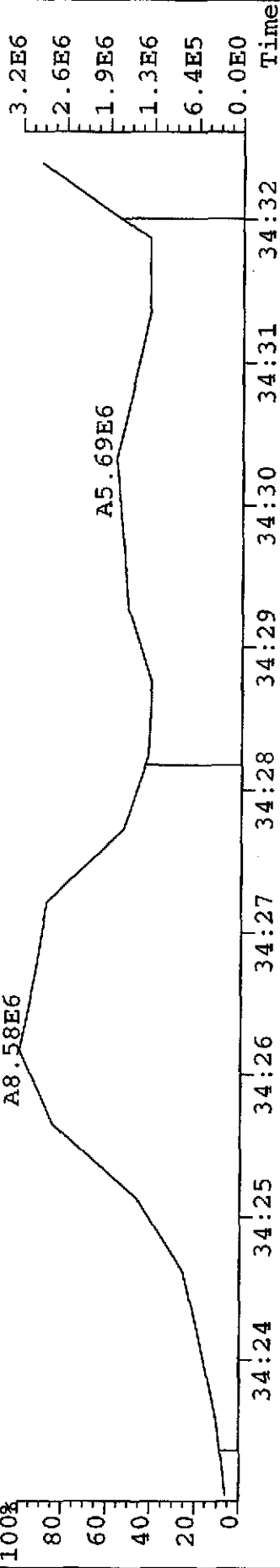


File:W1082 #1-422 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
403.8529 S:11 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.

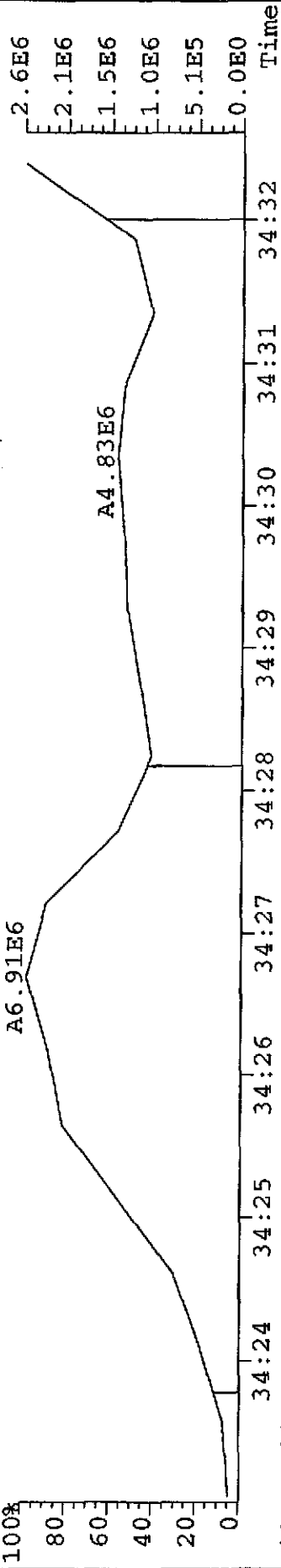


WAMS

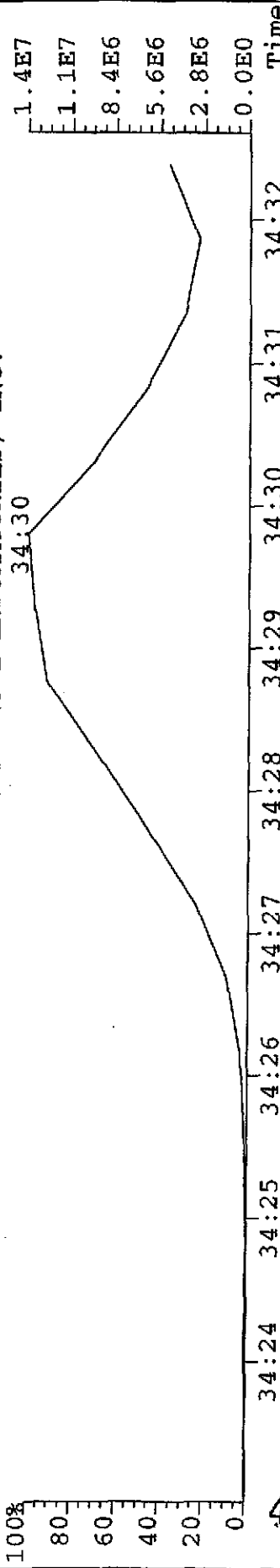
File:W1082 #1-422 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
389.8156 S:11 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.
A8.58E6



File:W1082 #1-422 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
391.8127 S:11 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.
A6.91E6



File:W1082 #1-422 Acq:17-JUL-2002 23:53:36 GC EI+ Voltage SIR 70S
403.8529 S:11 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-27 0-2' File Text:TRIANGLE LABORATORIES, INC.
34:30

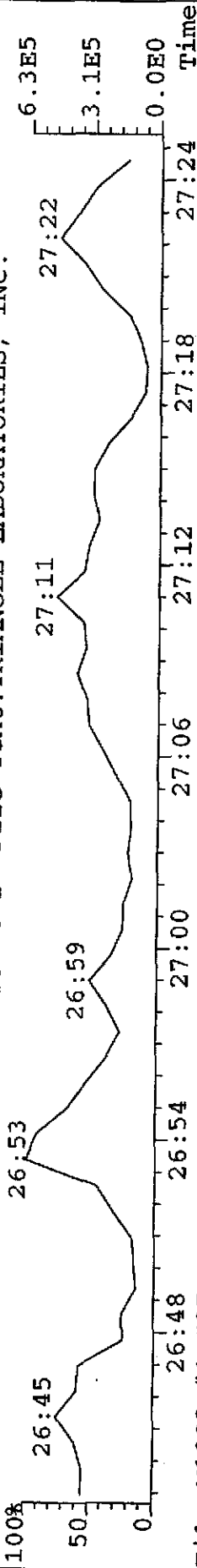


WALM 7/18/02

File:W1082 #1-797 Acq:17-JUL-2002 22:17:25 GC EI+ Voltage SIR 70S

319.8965 S:9 F:2 Exp:NDB5US

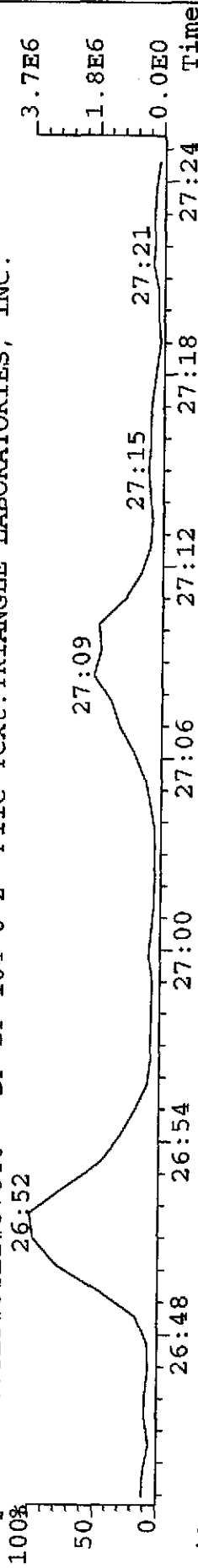
Sample Text:TLI#5TLI#57840 DF-DP-104 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-797 Acq:17-JUL-2002 22:17:25 GC EI+ Voltage SIR 70S

321.8936 S:9 F:2 Exp:NDB5US

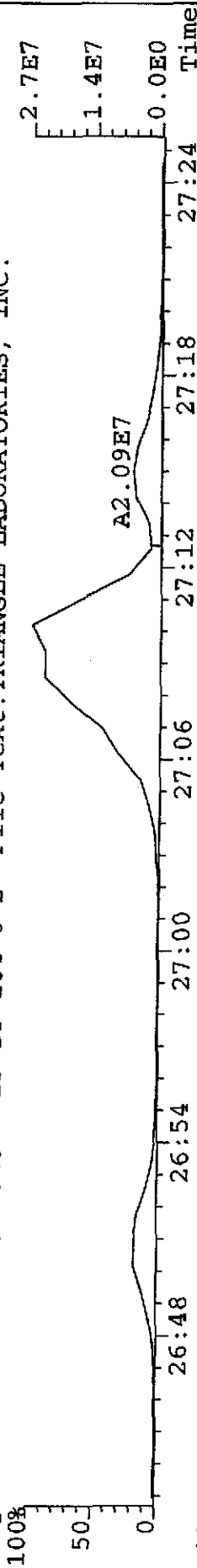
Sample Text:TLI#5TLI#57840 DF-DP-104 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-797 Acq:17-JUL-2002 22:17:25 GC EI+ Voltage SIR 70S

327.8847 S:9 F:2 Exp:NDB5US

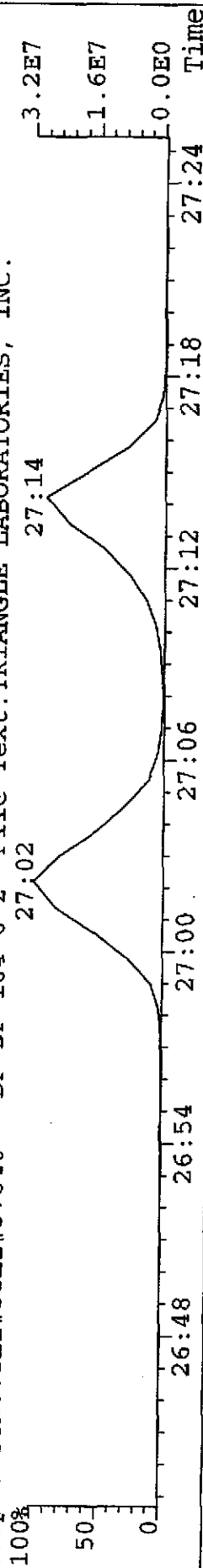
Sample Text:TLI#5TLI#57840 DF-DP-104 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-797 Acq:17-JUL-2002 22:17:25 GC EI+ Voltage SIR 70S

333.9338 S:9 F:2 Exp:NDB5US

Sample Text:TLI#5TLI#57840 DF-DP-104 0-2' File Text:TRIANGLE LABORATORIES, INC.



AL
7/16/01

InitialDate...

Data Review By:

JK *7/18/02*

Channel specific noise levels computed from 'NL' heights.

Page No. 1
07/18/2002

Listing of P022559B.dbf
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			0.793-1.106		
304-306	DC	NL	Height	0.17	0.08	0.09		
			19:10 RO 0.92	4.26	2.04	2.22	0.812	
	DC	SN	19:20 0.85	0.37			0.819	
			19:28 0.71	3.13	1.30	1.83	0.825	
			19:35 0.76	41.11	17.81	23.30	0.830	
			19:42 0.76	389.45	167.71	221.74	0.835	
			19:56 0.79	11.92	5.25	6.67	0.845	
			20:05 0.76	22.05	9.55	12.50	0.851	
			20:10 0.75	18.76	8.03	10.73	0.855	
			20:21 RO 1.10	1.89	0.99	0.90	0.862	J
			20:36 RO 0.60	1.42	0.53	0.89	0.873	J
			20:46 0.77	102.53	44.47	58.06	0.880	
			20:55 0.86	13.05	6.05	7.00	0.886	
			21:04 0.77	58.53	25.48	33.05	0.893	
			21:14 0.77	114.55	49.80	64.75	0.900	
			21:44 0.75	217.71	93.64	124.07	0.921	
			21:59 RO 1.40	135.43	79.11	56.32	0.931	
			22:06 0.73	23.38	9.87	13.51	0.936	
			22:14 RO 0.62	3.42	1.31	2.11	0.942	
			22:23 0.80	53.19	23.68	29.51	0.948	
			22:27 0.69	49.82	20.36	29.46	0.951	
			22:33 0.72	45.84	19.26	26.58	0.956	
			22:46 0.75	37.59	16.17	21.42	0.965	
			23:03 0.66	14.17	5.64	8.53	0.977	
			23:12 0.86	7.54	3.49	4.05	0.983	
			23:18 0.71	12.35	5.11	7.24	0.987	
			23:28 0.72	61.48	25.69	35.79	0.994	
			23:36 0.71	74.37	30.95	43.42	1.000	2378-TCDF AN
			23:43 RO 1.04	6.39	3.25	3.14	1.005	
			23:51 0.76	27.27	11.79	15.48	1.011	
			23:56 0.78	51.17	22.45	28.72	1.014	
			24:14 0.75	602.50	258.50	344.00	1.027	
			24:36 0.75	55.37	23.68	31.69	1.042	
			24:47 RO 1.06	0.74	0.38	0.36	1.050	J
			25:05 0.75	50.96	21.82	29.14	1.063	
			25:23 0.81	43.38	19.44	23.94	1.076	
			25:36 0.74	70.85	30.20	40.65	1.085	
			25:55 RO 0.21	0.70	0.12	0.58	1.098	J
	DC	WH	26:11 0.75	569.45			1.109	
	DC	WH	26:21 0.82	5.98			1.117	
	DC	WH	26:28 0.86	17.52			1.121	
304-306			36 Peaks	2,428.27				
13C12-TCDF			0.65-0.89			0.958-1.042		
316-318	DC	NL	Height	0.21	0.08	0.13		
	DC	WL	19:10 0.69	7.57			0.812	

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	WL	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
DC	WL	19:56	RO	0.96	0.49			0.845			
DC	WL	20:00	RO	0.94	0.60			0.847			
DC	WL	20:05		0.78	0.57			0.851			
DC	WL	20:20	RO	0.26	0.58			0.862			
DC	WL	20:59	RO	2.63	0.29			0.889			
DC	WL	21:08	RO	1.22	0.40			0.895			
DC	WL	21:13	RO	1.13	0.34			0.899			
DC	WL	21:37		0.88	0.60			0.916			
DC	WL	21:50	RO	0.25	0.45			0.925			
DC	WL	21:57	RO	0.19	0.37			0.930			
DC	WL	22:05		0.72	3.69			0.936			
DC	WL	22:13	RO	0.19	1.24			0.941			
DC	WL	22:18	RO	0.94	0.35			0.945			
DC	SN	22:37		0.75	0.14			0.958			
DC	SN	22:53	RO	3.00	0.32			0.970			
DC	SN	23:02	RO	0.90	0.38			0.976			
		23:18	RO	0.97	0.67	0.33	0.34	0.987			
		23:36		0.75	358.94	154.07	204.87	1.000	13C12-2378-TCDF	ISO	
				Height	88.32	37.84	50.48				
		23:51		0.69	2.68	1.09	1.59	1.011			
		24:00	RO	1.65	2.97	1.85	1.12	1.017			
		24:09	RO	1.58	3.05	1.87	1.18	1.023			
		24:16	RO	0.56	21.59	7.78	13.81	1.028			
		24:36	RO	0.38	1.61	0.44	1.17	1.042			
DC	WH	25:24	RO	0.03	2.76			1.076			
DC	WH	25:34	RO	0.41	0.58			1.083			
DC	WH	25:48		0.87	1.55			1.093			
DC	WH	26:22	RO	0.13	2.76			1.117			
DC	WH	26:29	RO	0.12	2.37			1.122			
		7 Peaks			391.51						

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

13C12-TCDD		0.65-0.89		0.910-1.090
332-334	DC NL	Height	0.34	0.10
	DC SN	20:33 RO	2.19	0.51
	DC SN	20:58 RO	1.42	0.75
		22:08	0.80	237.32
		Height	62.76	105.13
		22:26	0.78	28.16
				34.60
	DC SN	22:44 RO	1.31	132.19
	DC SN	22:56 RO	2.67	167.92
	DC SN	23:36	0.79	1.014
	DC SN	23:41 RO	1.13	13C12-1234-TCDD
	DC SN	23:46 RO	0.64	RS1
	DC WH	24:41	0.76	1.027
	DC WH	25:17 RO	3.00	1.036
		2 Peaks		1.066
				536.67
				1.070
				1.074
				1.115
				1.142

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.

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

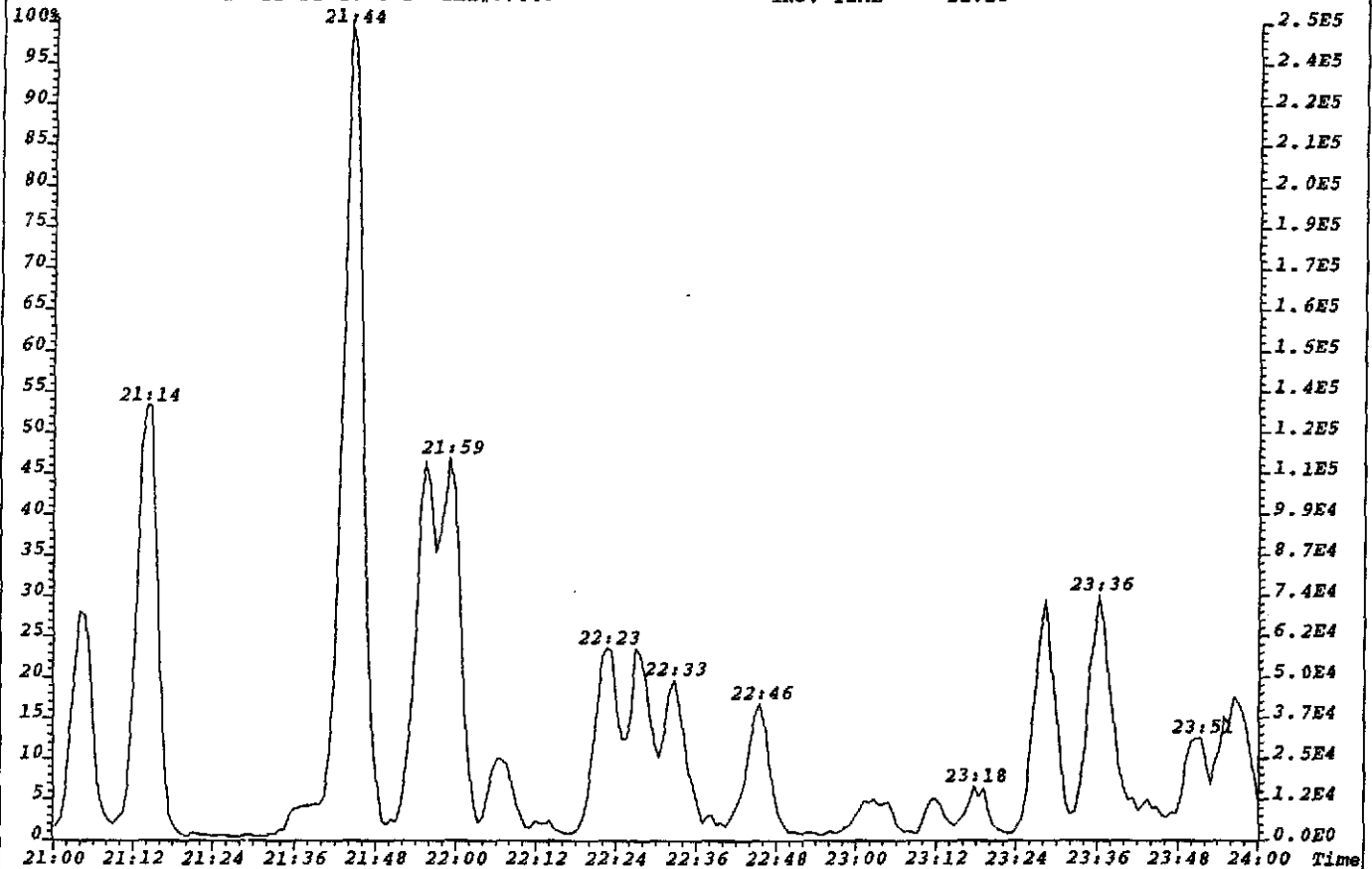
*** End of Report ***

File:P022559 #1-3025 Acq:18-JUL-2002 11:28:17 EI+ Voltage SIR 70P

303.9016 GC:DB225 Exp:none

TRIANGLE LABS Text:DF-DP-27 0-2' TLI#57840

INJ. TIME = 11:28

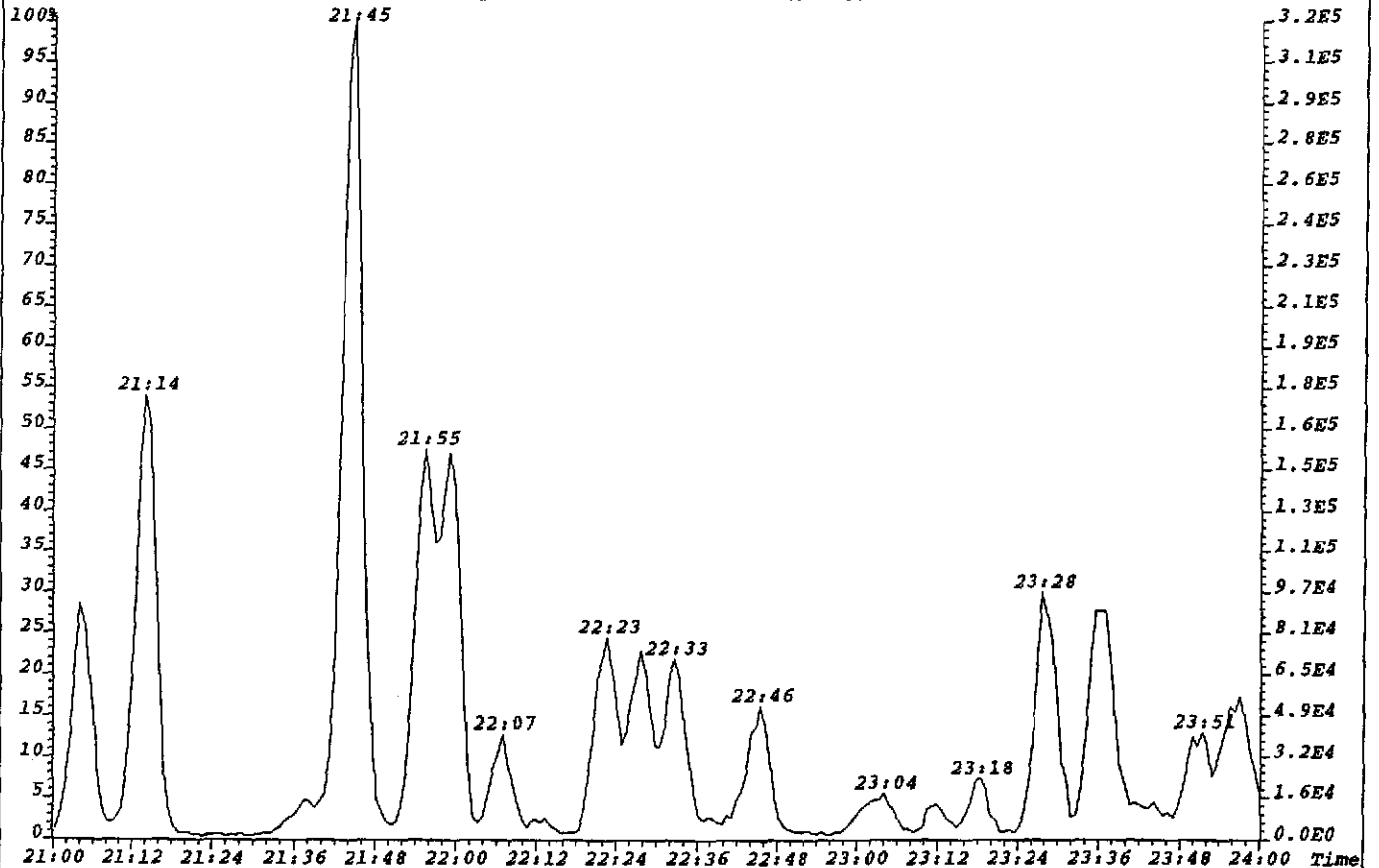


File:P022559 #1-3025 Acq:18-JUL-2002 11:28:17 EI+ Voltage SIR 70P

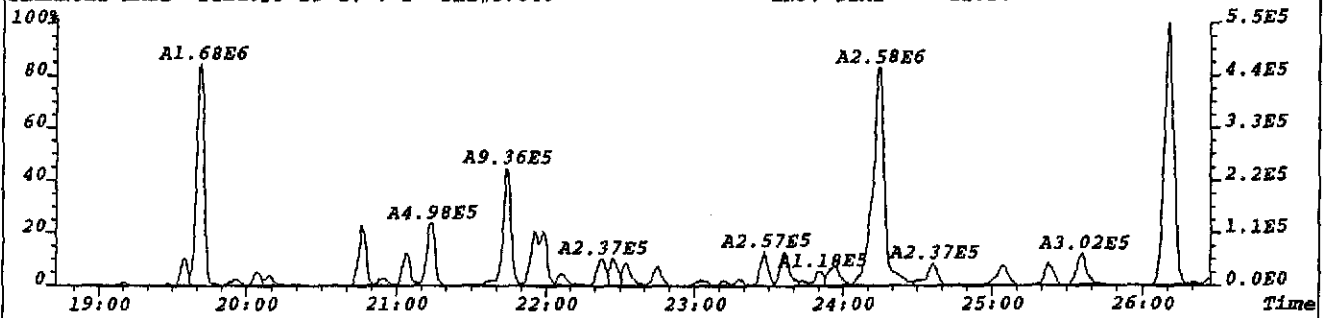
305.8987 GC:DB225 Exp:none

TRIANGLE LABS Text:DF-DP-27 0-2' TLI#57840

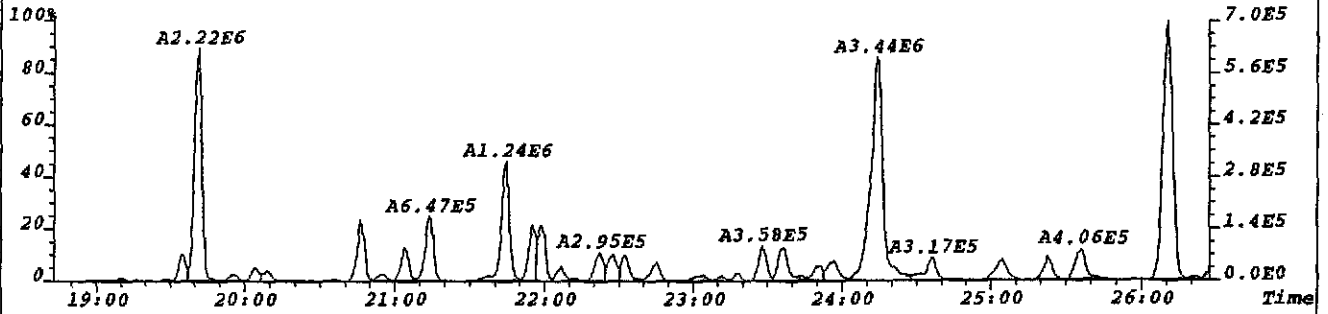
INJ. TIME = 11:28



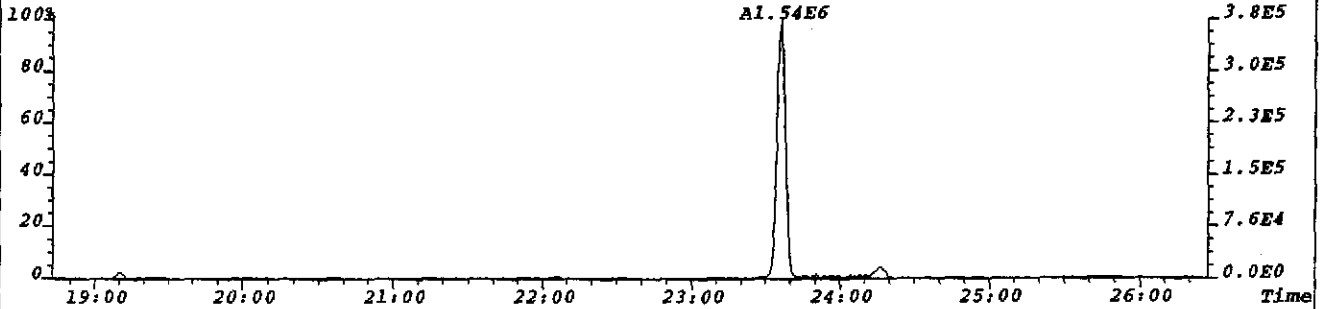
File:P022559 #1-3025 Acq:18-JUL-2002 11:28:17 EI+ Voltage SIR 70P Noise:98
303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,392.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-27 0-2' TLI#57840 INJ. TIME = 11:28



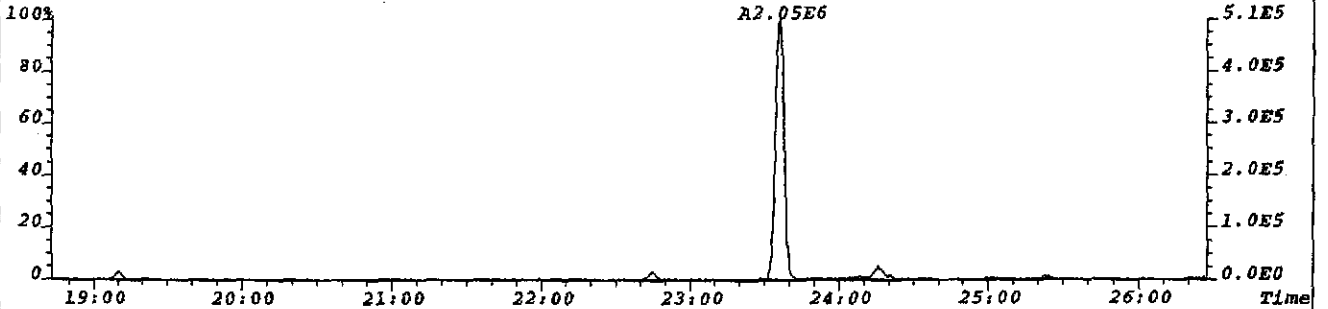
File:P022559 #1-3025 Acq:18-JUL-2002 11:28:17 EI+ Voltage SIR 70P Noise:116
305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,464.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-27 0-2' TLI#57840 INJ. TIME = 11:28



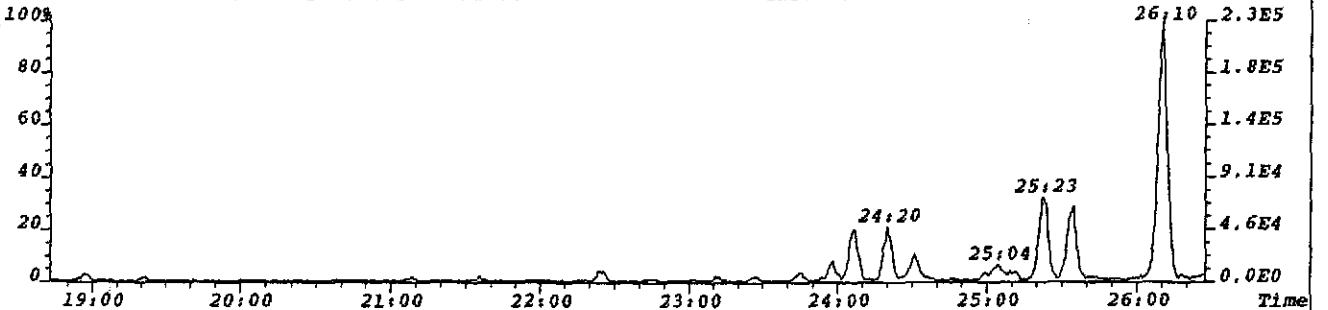
File:P022559 #1-3025 Acq:18-JUL-2002 11:28:17 EI+ Voltage SIR 70P Noise:104
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,416.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-27 0-2' TLI#57840 INJ. TIME = 11:28



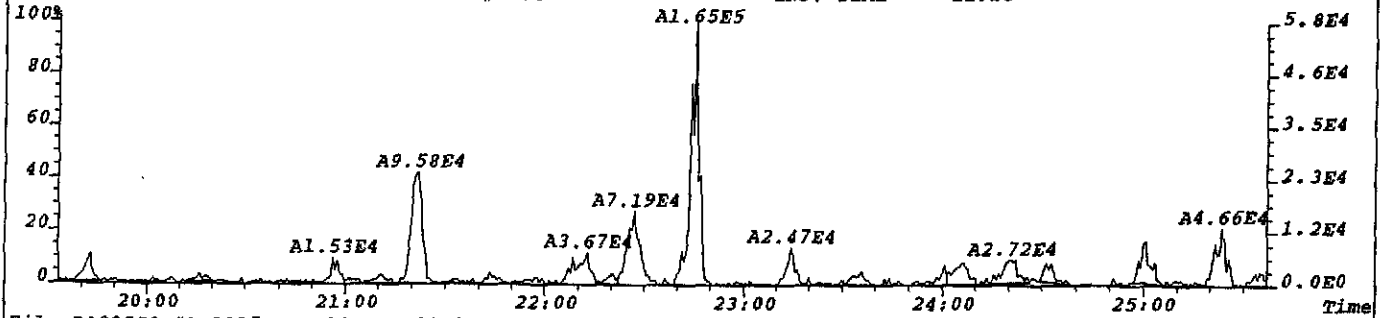
File:P022559 #1-3025 Acq:18-JUL-2002 11:28:17 EI+ Voltage SIR 70P Noise:164
317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,656.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-27 0-2' TLI#57840 INJ. TIME = 11:28



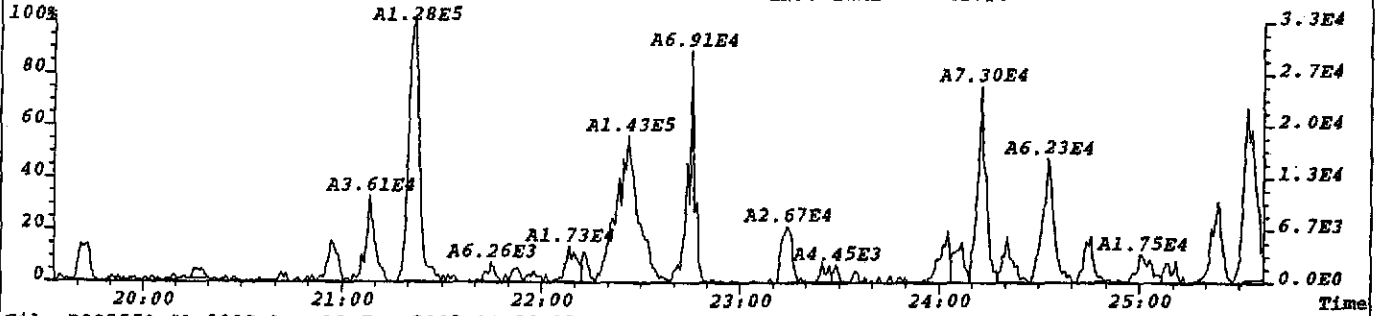
File:P022559 #1-3025 Acq:18-JUL-2002 11:28:17 EI+ Voltage SIR 70P
375.8364 Exp:DB225
TRIANGLE LABS Text:DF-DP-27 0-2' TLI#57840 INJ. TIME = 11:28



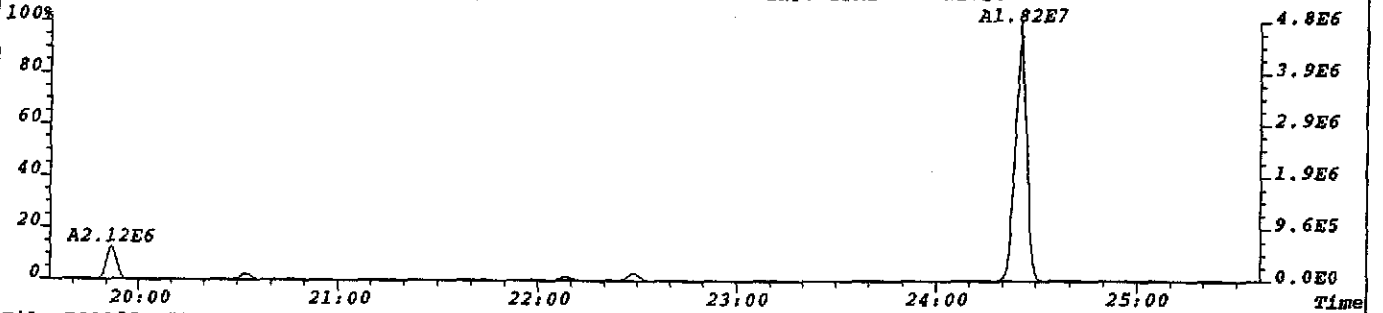
File:P022559 #1-3025 Acq:18-JUL-2002 11:28:17 EI+ Voltage SIR 70P Noise:130
319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,520.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-27 0-2' TLI#57840 INJ. TIME - 11:28



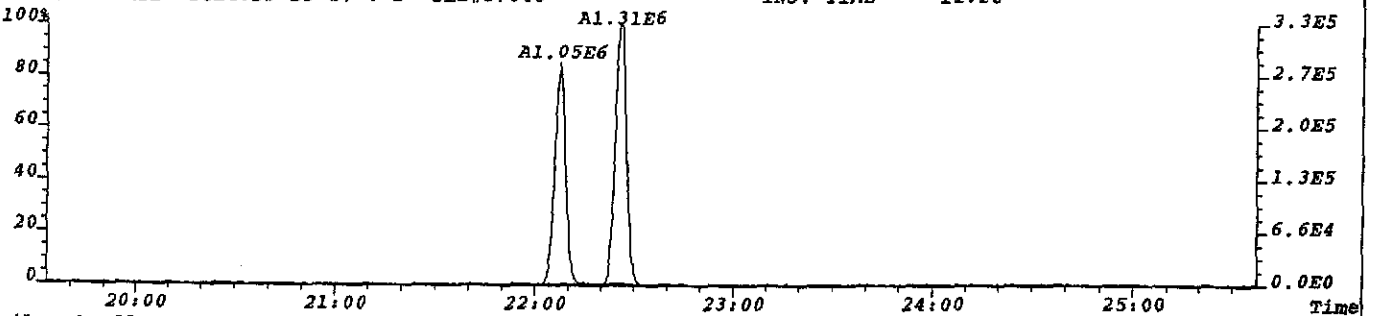
File:P022559 #1-3025 Acq:18-JUL-2002 11:28:17 EI+ Voltage SIR 70P Noise:96
321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,384.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-27 0-2' TLI#57840 INJ. TIME - 11:28



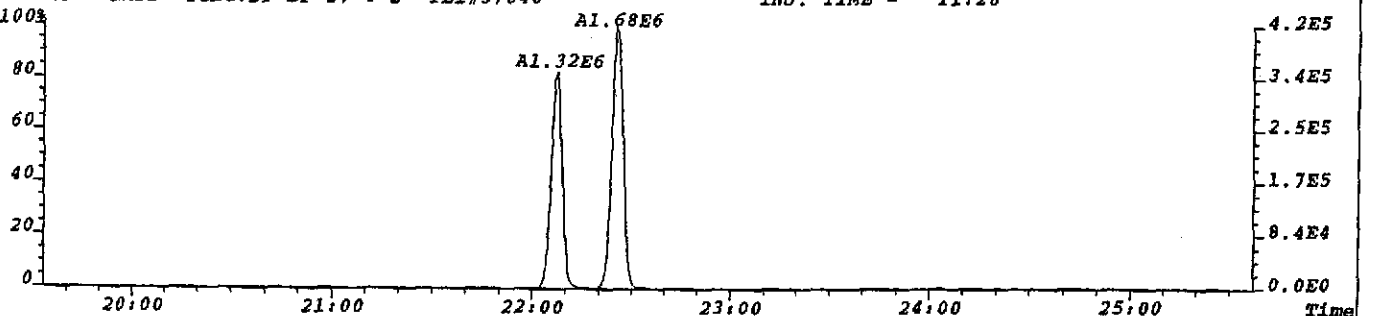
File:P022559 #1-3025 Acq:18-JUL-2002 11:28:17 EI+ Voltage SIR 70P Noise:113
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,452.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-27 0-2' TLI#57840 INJ. TIME - 11:28



File:P022559 #1-3025 Acq:18-JUL-2002 11:28:17 EI+ Voltage SIR 70P Noise:305
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1220.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-27 0-2' TLI#57840 INJ. TIME - 11:28



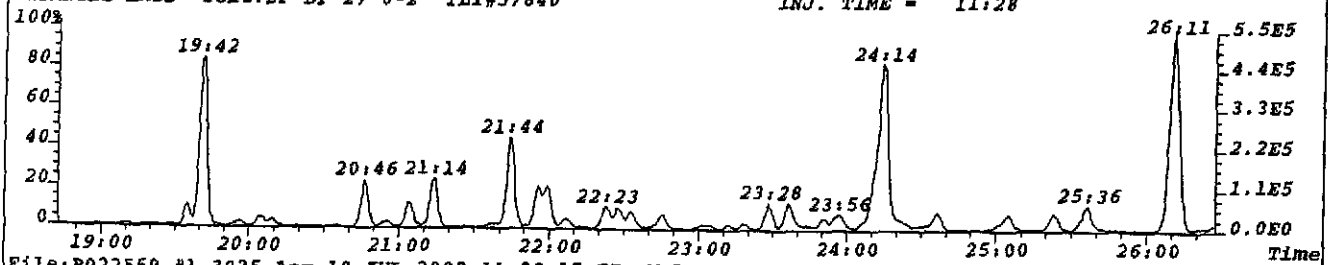
File:P022559 #1-3025 Acq:18-JUL-2002 11:28:17 EI+ Voltage SIR 70P Noise:130
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,520.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-27 0-2' TLI#57840 INJ. TIME - 11:28



File: P022559 #1-3025 Acq: 18-JUL-2002 11:28:17 EI+ Voltage SIR 70P
303.9016 Exp: DB225

TRIANGLE LABS Text: DF-DP-27 0-2' TLI#57840

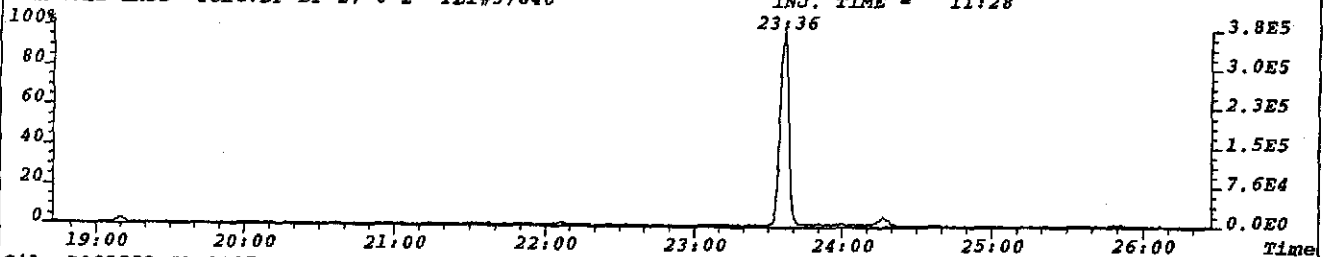
INJ. TIME = 11:28



File: P022559 #1-3025 Acq: 18-JUL-2002 11:28:17 EI+ Voltage SIR 70P
315.9419 Exp: DB225

TRIANGLE LABS Text: DF-DP-27 0-2' TLI#57840

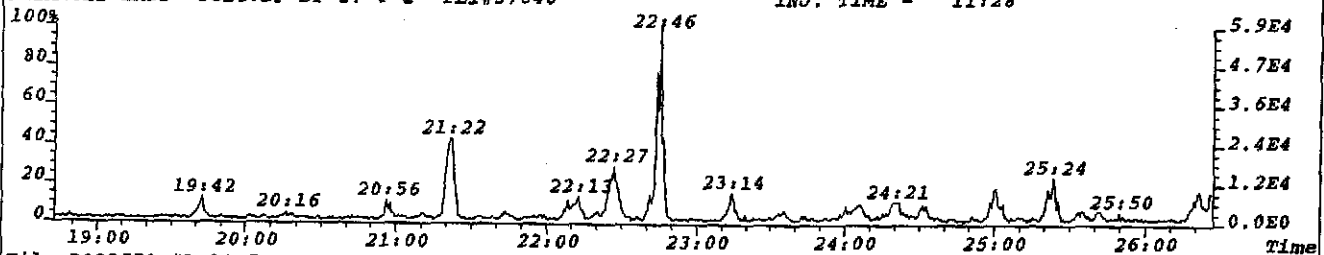
INJ. TIME = 11:28



File: P022559 #1-3025 Acq: 18-JUL-2002 11:28:17 EI+ Voltage SIR 70P
319.8965 Exp: DB225

TRIANGLE LABS Text: DF-DP-27 0-2' TLI#57840

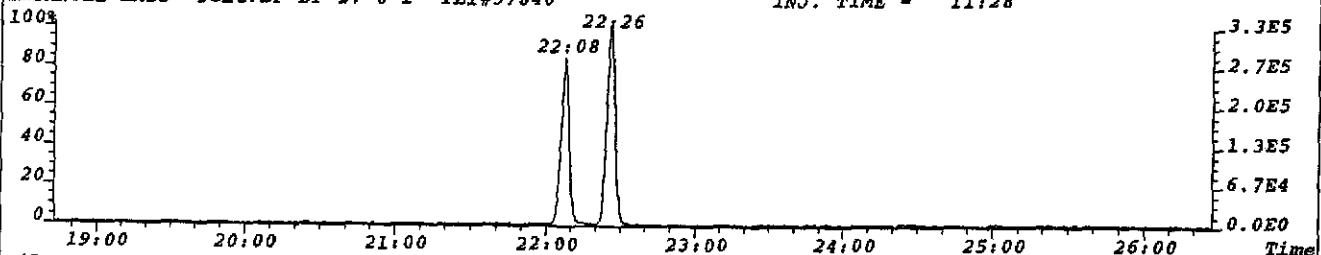
INJ. TIME = 11:28



File: P022559 #1-3025 Acq: 18-JUL-2002 11:28:17 EI+ Voltage SIR 70P
331.9368 Exp: DB225

TRIANGLE LABS Text: DF-DP-27 0-2' TLI#57840

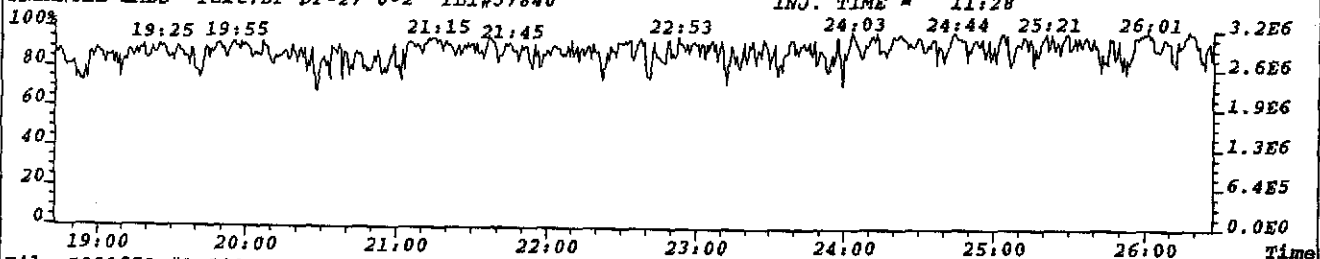
INJ. TIME = 11:28



File: P022559 #1-3025 Acq: 18-JUL-2002 11:28:17 EI+ Voltage SIR 70P
292.9825 Exp: DB225

TRIANGLE LABS Text: DF-DP-27 0-2' TLI#57840

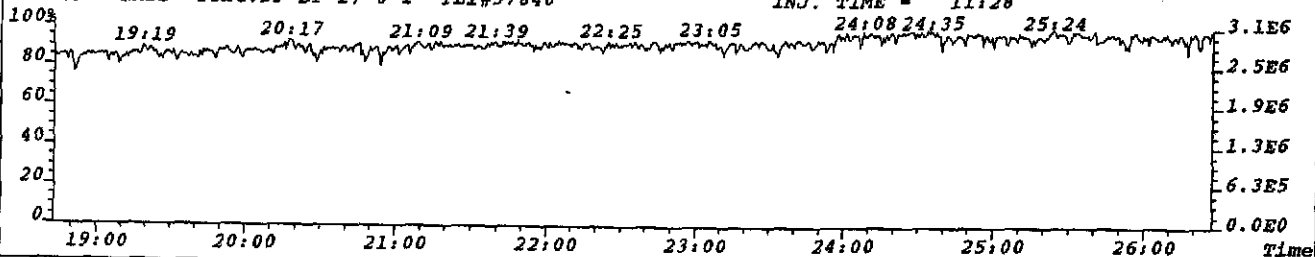
INJ. TIME = 11:28

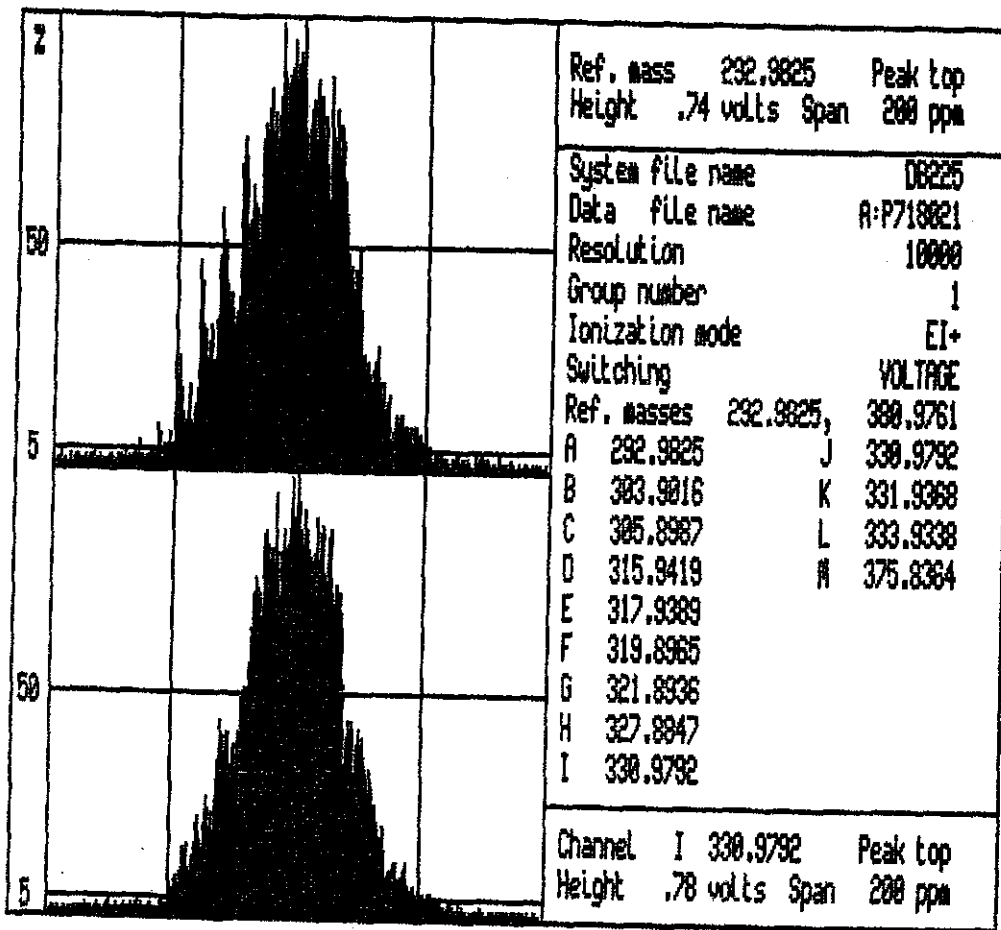


File: P022559 #1-3025 Acq: 18-JUL-2002 11:28:17 EI+ Voltage SIR 70P
330.9792 Exp: DB225

TRIANGLE LABS Text: DF-DP-27 0-2' TLI#57840

INJ. TIME = 11:28





Martin & Slagle

TLI Project: **57840** 1613, Revision B PCDD/PCDF Analysis (c)
 Client Sample: **DF-DP-209 0-2'OFFSET** Analysis File: **W108212**

Client Project:	Dioxin/Furan Analysis				
Sample Matrix:	SOLID	Date Received:	07/11/2002	Spike File:	SP161B2S
TLI ID:	330-27-10	Date Extracted:	07/12/2002	ICal:	WF5614B
		Date Analyzed:	07/18/2002	ConCal:	WB21081
Sample Size:	12.000 g	Dilution Factor:	n/a	% Moisture:	16.4
Dry Weight:	10.032 g	Blank File:	W108202	% Lipid:	n/a
GC Column:	DB-5	Analyst:	JLD	% Solids:	83.6

Analytes	Conc. (pg/g)	DL	Ratio	RT	RRT	Flags
2,3,7,8-TCDD	2.9		0.73	27:13	1.001	---
1,2,3,7,8-PeCDD	11.5		1.47	31:23	1.001	---
1,2,3,4,7,8-HxCDD	13.0		1.12	34:30	1.000	---
1,2,3,6,7,8-HxCDD	86.9		1.19	34:36	1.000	---
1,2,3,7,8,9-HxCDD	41.5		1.24	34:55	1.010	---
1,2,3,4,6,7,8-HpCDD	142		1.03	37:55	1.000	---
1,2,3,4,6,7,8,9-OCDD	1090		0.85	41:39	1.000	---
2,3,7,8-TCDF	135		0.74	26:31	1.001	---
1,2,3,7,8-PeCDF	41.1		1.45	30:23	1.001	---
2,3,4,7,8-PeCDF	142		1.47	31:03	1.001	---
1,2,3,4,7,8-HxCDF	530		1.28	33:48	1.000	---
1,2,3,6,7,8-HxCDF	102		1.27	33:54	1.000	---
2,3,4,6,7,8-HxCDF	115		1.23	34:23	1.000	---
1,2,3,7,8,9-HxCDF	6.4		1.18	35:10	1.000	---
1,2,3,4,6,7,8-HpCDF	3610		1.06	36:51	1.000	E_
1,2,3,4,7,8,9-HpCDF	189		1.06	38:25	1.000	---
1,2,3,4,6,7,8,9-OCDF	1630		0.87	41:52	1.006	---

Totals	Conc. (pg/g)	Number	DL	Flags
Total TCDD	14.0	4		---
Total PeCDD	40.5	2		---
Total HxCDD	531	5		---
Total HpCDD	268	2		---
Total TCDF	608	16		---
Total PeCDF	1360	20		---
Total HxCDF	2450	14		---
Total HpCDF	6010	4		E_

Martin & Slagle

TLI Project: **57840**
 Client Sample: **DF-DP-209 0-2'OFFSET**

1613, Revision B PCDD/PCDF Analysis (c)
 Analysis File: **W108212**

Internal Standards	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	RRT	Flags
¹³ C ₁₂ -2,3,7,8-TCDD	106	53.4	25%-164%	0.78	27:12	1.007	—
¹³ C ₁₂ -1,2,3,7,8-PeCDD	152	76.4	25%-181%	1.55	31:22	1.161	—
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	119	59.7	32%-141%	1.25	34:30	0.989	—
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	117	58.8	28%-130%	1.14	34:35	0.991	—
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	128	64.4	23%-140%	1.14	37:54	1.086	—
¹³ C ₁₂ -1,2,3,4,6,7,8,9-OCDD	280	70.3	17%-157%	0.86	41:38	1.193	—
¹³ C ₁₂ -2,3,7,8-TCDF	99.2	49.8	24%-169%	0.75	26:30	0.981	—
¹³ C ₁₂ -1,2,3,7,8-PeCDF	130	65.1	24%-185%	1.42	30:22	1.124	—
¹³ C ₁₂ -2,3,4,7,8-PeCDF	117	58.8	21%-178%	1.49	31:02	1.149	—
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	112	56.2	26%-152%	0.52	33:48	0.968	—
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	109	54.8	26%-123%	0.52	33:54	0.971	—
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	109	54.9	28%-136%	0.52	34:23	0.985	—
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	113	56.6	29%-147%	0.54	35:10	1.008	—
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	108	54.1	28%-143%	0.46	36:51	1.056	—
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	109	54.6	26%-138%	0.47	38:25	1.101	—

Cleanup Standard	Conc. (pg/g)	% Recovery	QC Limits	RT	RRT	Flags
³⁷ Cl ₄ -2,3,7,8-TCDD	15.6	78.0	35%-197%	27:12	1.007	—

Recovery Standards	Ratio	RT	Flags
¹³ C ₁₂ -1,2,3,4-TCDD	0.81	27:01	—
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.20	34:54	—

Data Reviewer: _____ 07/18/2002

Martin & Slagle

TLI Project: **57840**
 Client Sample: **DF-DP-209 0-2'OFFSET**

Toxicity Equivalents Report
 Analysis File: **W108212**

Client Project: Dioxin/Furan Analysis			
Sample Matrix: SOLID	Date Received: 07/11/02	Spike File: SP161B2S	
TLI ID: 330-27-10	Date Extracted: 07/12/02	ICal: WF5614B	
	Date Analyzed: 07/18/02	ConCal: WB21081	
Sample Size: 12.000 g	Dilution Factor: 1	% Moisture: 16.4	
Dry Weight: 10.032 g	Blank File: W108202	% Lipid: n/a	
GC Column: DB-5	Analyst: JLD	% Solids: 83.6	

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	2.9	x	1.	=	2.9
1,2,3,7,8-PeCDD	11.5	x	0.5	=	5.75
1,2,3,4,7,8-HxCDD	13.0	x	0.1	=	1.30
1,2,3,6,7,8-HxCDD	86.9	x	0.1	=	8.69
1,2,3,7,8,9-HxCDD	41.5	x	0.1	=	4.15
1,2,3,4,6,7,8-HpCDD	142	x	0.01	=	1.42
1,2,3,4,6,7,8,9-OCDD	1090	x	0.001	=	1.090
TOTAL PCDD					25.3
2,3,7,8-TCDF	110	x	0.1	=	11.0
1,2,3,7,8-PeCDF	41.1	x	0.05	=	2.06
2,3,4,7,8-PeCDF	142	x	0.5	=	71.0
1,2,3,4,7,8-HxCDF	530	x	0.1	=	53.0
1,2,3,6,7,8-HxCDF	102	x	0.1	=	10.2
2,3,4,6,7,8-HxCDF	115	x	0.1	=	11.5
1,2,3,7,8,9-HxCDF	6.4	x	0.1	=	0.64
1,2,3,4,6,7,8-HpCDF	3610	x	0.01	=	36.10
1,2,3,4,7,8,9-HpCDF	189	x	0.01	=	1.89
1,2,3,4,6,7,8,9-OCDF	1630	x	0.001	=	1.630
TOTAL PCDF					199.0

Total EPA TEFs, 1989a: 224.3 pg/g
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InitialDate...

Data Review By:

JF *7/18/02*

Channel specific noise levels computed from 'NL' heights.

Page No. 1
07/18/2002

Listing of W108212B.dbf
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				0.877-1.070			
304-306	DC	NL	Height	16.49	10.04	6.45		
D	D	WL	23:20	0.74	1,683.50			0.881
			23:56	0.69	999.27	409.55	589.72	0.903
			24:10	0.81	1,056.47	472.18	584.29	0.912
			24:32	0.76	2,397.36	1,037.12	1,360.24	0.926
			24:52	0.76	4,094.19	1,763.77	2,330.42	0.938
			25:13	0.72	4,278.66	1,794.73	2,483.93	0.952
			25:30	0.73	3,287.00	1,385.54	1,901.46	0.962
			25:56	0.75	3,565.35	1,533.45	2,031.90	0.979
			26:07	0.70	5,688.21	2,351.94	3,336.27	0.986
			26:20	0.72	1,559.53	652.54	906.99	0.994
			26:31	0.74	11,003.70	4,687.03	6,316.67	1.001
			26:44	0.86	106.63	49.29	57.34	1.009
			26:56	0.75	3,463.31	1,482.99	1,980.32	1.016
			27:09	0.76	674.94	292.02	382.92	1.025
A			27:22	0.81	994.00	446.00	548.00	1.033
			27:42	0.71	6,316.52	2,628.51	3,688.01	1.045
	DC	SN	28:07	RO 1.88	39.79			1.061
			28:13	0.89	126.24	59.52	66.72	1.065
	DC	WH	28:31	RO 0.98	356.20			1.076
	DC	WH	28:43	RO 0.91	190.01			1.084
304-306			16 Peaks		49,611.38			

13C12-TCDF	0.65-0.89				0.944-1.133			
316-318	DC	NL	Height	6.28	2.89	3.39		
	DC	WL	23:30	0.83	46.74			0.887
	DC	WL	24:40	RO 0.50	25.77			0.931
			25:36	RO 1.15	41.73	22.36	19.37	0.966
			25:48	0.76	113.18	48.81	64.37	0.974
			26:06	0.65	118.75	46.97	71.78	0.985
	DC	SN	26:17	RO 0.99	25.02			0.992
			26:30	0.75	14,219.76	6,086.10	8,133.66	1.000
			Height		3,975.38	1,693.90	2,281.48	
			26:50	0.77	58.67	25.52	33.15	1.013
			27:09	RO 1.66	93.55	58.40	35.15	1.025
			27:41	0.79	72.38	32.03	40.35	1.045
			27:49	RO 0.11	104.56	10.24	94.32	1.050
			28:13	RO 1.11	57.38	30.14	27.24	1.065
			28:32	RO 0.54	81.12	28.30	52.82	1.077
316-318			10 Peaks		14,961.08			

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

TCDD	0.65-0.89				0.903-1.042			
320-322	DC	NL	Height	4.01	-2.14	1.87		
			24:44	RO 0.27	278.63	59.15	219.48	0.909
								1368-TCDD
								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.

RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
25:06	RO	0.64	101.17	39.65	61.52	0.923	1379-TCDD	AN	
25:24	RO	0.06	536.21	29.91	506.30	0.934			
25:49	RO	0.17	329.37	47.93	281.44	0.949			
26:03	RO	0.62	861.32	328.37	532.95	0.958			
26:19		0.73	232.77	98.08	134.69	0.968			
26:29	RO	0.02	1,645.42	25.91	1,619.51	0.974			
27:07	RO	0.47	647.22	207.47	439.75	0.997			
27:13		0.73	201.98	85.33	116.65	1.001	2378-TCDD	AN	
27:22		0.81	50.92	22.81	28.11	1.006			J
27:32	RO	0.33	914.77	224.38	690.39	1.012			
27:47		0.84	482.16	220.22	261.94	1.021			
DC SN 27:57	RO	0.00	1,937.99			1.028			
DC WH 28:24	RO	2.37	39.20			1.044			
DC WH 28:31	RO	0.22	236.39			1.048			
320-322		12 Peaks	6,281.94						

RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
37C1-TCDD						0.926-1.074			
328	DC NL		Height	12.56	12.56				
	DC WL 24:52			487.31		0.914			
	DC WL 25:00			86.14		0.919			
			25:14	260.64	260.64	0.928			
			25:25	89.04	89.04	0.934			
			25:36	1,681.66	1,681.66	0.941			
			25:52	43,851.70	43,851.70	0.951			
			26:19	1,365.73	1,365.73	0.968			
			26:28	1,126.54	1,126.54	0.973			
			26:50	437.24	437.24	0.987			
			27:08	6,465.84	6,465.84	0.998			
AN			27:12	1,860.00	1,860.00	1.000	37C1-TCDD	CLS	
			27:36	54,946.20	54,946.20	1.015			
			27:58	1,424.93	1,424.93	1.028			
			28:13	546.44	546.44	1.037			
			28:31	7,976.75	7,976.75	1.048			
328		13 Peaks	122,032.71						

RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
13C12-TCDD						0.920-1.067			
332-334	DC NL		Height	9.02	6.88	2.14			
			25:49	71.86	48.80	23.06	0.949		
			27:01	19,751.11	8,851.71	10,899.40	0.993	13C12-1234-TCDD	RS1
			27:12	12,485.23	5,478.43	7,006.80	1.000	13C12-2378-TCDD	IS1
			Height	3,664.57	1,606.04	2,058.53			
332-334		3 Peaks	32,308.20						

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

RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
PeCDF						0.909-1.036			
340-342	DC NL		Height	9.22	4.64	4.58			
	DC WL 28:13			1.49	405.66		0.909		
			28:30	1.52	6,553.20	3,956.01	2,597.19	0.918	
			28:43	1.45	8,851.70	5,240.36	3,611.34	0.925	
			29:08	1.49	2,966.67	1,774.54	1,192.13	0.939	
			29:32	1.49	21,598.87	12,939.20	8,659.67	0.952	

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.

Compound	DC	WH	RT	RO	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags	
356-358	DC	WH	32:07	RO	0.48	2,554.85			1.024				
			7 Peaks										
13C12-PeCDD			1.32-1.78							0.734-1.053			
368-370	DC	NL	Height										
						4.17	2.83	1.34					
			29:36	RO	4.52	55.78	45.68	10.10	0.944				
			30:02		1.61	16.77	10.34	6.43	0.957				
			30:20	RO	2.07	33.76	22.76	11.00	0.967				
			30:28	RO	1.18	61.29	33.20	28.09	0.971				
			30:39	RO	2.70	19.74	14.41	5.33	0.977				
			31:12	RO	0.63	59.99	23.25	36.74	0.995				
			31:22		1.55	10,674.82	6,484.79	4,190.03	1.000	13C12-PeCDD 123	IS4		
			Height										
						3,591.82	2,194.19	1,397.63					
			31:31	RO	1.05	78.07	39.91	38.16	1.005				
			32:03	RO	0.86	45.63	21.11	24.52	1.022				
368-370			9 Peaks										
						11,045.85							

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

HxCDF	DC	NL	RT	RO	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags	
374-376	DC	NL	1.05-1.43							0.929-1.007			
			Height										
						39.77	22.88	16.89					
			32:51		1.25	7,891.83	4,381.68	3,510.15	0.934				
			32:59		1.27	30,587.60	17,084.50	13,503.10	0.938				
			33:08		1.27	1,612.32	901.83	710.49	0.942				
			33:17		1.26	758.95	423.26	335.69	0.946				
			33:26		1.27	35,063.70	19,614.70	15,449.00	0.951				
			33:40		1.26	322.48	179.98	142.50	0.957				
			33:48		1.28	25,957.10	14,589.50	11,367.60	1.000	123478-HxCDF		AN	
			33:54		1.27	5,208.66	2,918.79	2,289.87	1.000	123678-HxCDF		AN	
			34:01		1.18	313.53	169.88	143.65	0.967				
			34:11		1.25	1,010.41	561.87	448.54	0.972				
			34:23		1.23	5,150.19	2,843.61	2,306.58	1.000	234678-HxCDF		AN	
M	X		35:03		1.20	604.00	329.00	275.00	0.997				
AN			35:10		1.18	270.00	146.00	124.00	1.000	123789-HxCDF		AN	
M			35:15		1.24	1,274.00	706.00	568.00	1.002				
374-376			14 Peaks										
						116,024.77							

13C12-HxCDF	DC	NL	RT	RO	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags	
384-386	DC	NL	0.43-0.59							0.879-1.106			
			Height										
						21.37	7.84	13.53					
			32:45	RO	0.70	78.68	32.29	46.39	0.931				
			32:51		0.56	162.50	58.41	104.09	0.934				
			33:01	RO	0.67	706.11	283.03	423.08	0.939				
			33:10		0.56	231.22	82.86	148.36	0.943				
	DC	SN	33:14	RO	1.05	66.37			0.945				
			33:48		0.52	7,860.59	2,685.59	5,175.00	1.000	13C12-HxCDF 478	IS5		
			Height										
						2,732.27	924.67	1,807.60					
			33:54		0.52	7,864.18	2,681.46	5,182.72	1.000	13C12-HxCDF 678	IS6		
			Height										
						2,750.86	913.06	1,837.80					
	DC	SN	34:06	RO	1.16	75.30			0.970				
	DC	SN	34:12	RO	0.94	61.79			0.973				
			34:17	RO	0.63	61.57	23.87	37.70	0.975				
			34:23		0.52	7,437.58	2,540.77	4,896.81	1.000	13C12-HxCDF 234	IS7		
			Height										
						2,493.92	832.87	1,661.05					

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.

RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
34:32	RO	1.04	160.96	82.19	78.77	0.982			
35:10		0.54	6,670.37	2,350.47	4,319.90	1.000	13C12-HxCDF	789	IS8
		Height	2,122.87	734.56	1,388.31				
DC SN 35:23	RO	1.18	101.30			1.006			
35:31	RO	1.32	225.26	128.32	96.94	1.010			
DC SN 35:38	RO	0.88	85.00			1.013			
384-386		11 Peaks	31,459.02						

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

HxCDD			1.05-1.43	0.959-1.013				
390-392	DC NL		Height 31.66	10.60	21.06			
		33:20	RO 0.97	6,172.62	3,041.72	3,130.90	0.964	
	DC SN	33:32	RO 0.97	64.79			0.970	
		33:46	1.24	403.89	223.19	180.70	0.976	
		33:58	1.07	12,810.90	6,630.60	6,180.30	0.982	
A		34:27	RO 0.88	148.20	69.30	78.90	0.996	
M		34:30	1.12	438.00	231.00	207.00	1.000	123478-HxCDD AN
		34:36	1.19	2,901.24	1,576.37	1,324.87	1.000	123678-HxCDD AN
		34:55	1.24	1,430.53	793.02	637.51	1.010	123789-HxCDD AN
	DC WH	35:23	RO 0.59	545.73			1.023	
390-392		7 Peaks	24,305.38					

13C12-HxCDD			1.05-1.43	0.983-1.041				
402-404	DC NL		Height 25.99	13.96	12.03			
	DC SN	33:57	RO 0.37	56.02			0.984	
		34:30	1.25	5,774.27	3,212.45	2,561.82	1.000	13C12-HxCDD 478 IS9
			Height 1,947.02	1,060.13	886.89			
		34:35	1.14	6,098.56	3,252.96	2,845.60	1.000	13C12-HxCDD 678 IS10
			Height 2,081.53	1,117.75	963.78			
		34:54	1.20	10,636.69	5,808.90	4,827.79	1.012	13C12-HxCDD 789 RS2
		35:07	RO 0.26	242.48	50.62	191.86	1.018	
	DC SN	35:12	RO 0.19	87.43			1.020	
402-404		4 Peaks	22,752.00					

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

HpCDF			0.88-1.20	0.955-1.004				
408-410	DC NL		Height 25.96	14.25	11.71			
		36:51	1.06	150,018.50	77,077.00	72,941.50	1.000	1234678-HpCDF AN E
		37:08	1.11	1,012.33	531.82	480.51	0.967	
		37:17	1.07	81,485.60	42,213.10	39,272.50	0.970	
		38:25	1.06	6,250.41	3,211.26	3,039.15	1.000	1234789-HpCDF AN
408-410		4 Peaks	238,766.84					

13C12-HpCDF			0.37-0.51	0.856-1.143				
418-420	DC NL		Height 19.67	7.56	12.11			
		36:51	0.46	5,555.41	1,761.63	3,793.78	1.000	13C12-HpCDF 678 IS11
			Height 1,632.72	521.67	1,111.05			
	DC SN	37:04	RO 1.50	18.21			0.965	
		37:10	RO 0.92	113.40	54.23	59.17	0.967	
		37:18	RO 1.28	162.88	91.49	71.39	0.971	

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	37:27	RO	0.72	60.62			0.975		
			37:49	RO	0.72	107.75	44.96	62.79	0.984		
			38:25		0.47	4,438.94	1,429.29	3,009.65	1.000	13C12-HpCDF	789 IS12
						Height	1,195.39	374.63	820.76		
			38:43	RO	1.19	273.12	149.48	124.64	1.008		
	DC	SN	38:51	RO	1.02	68.34			1.011		
418-420			6 Peaks			10,651.50					

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

	HpCDD					0.88-1.20	0.975-1.005				
424-426	DC	NL	Height			10.36	5.38	4.98			
			37:08		1.06	3,481.26	1,794.79	1,686.47	0.980		
			37:18	RO	1.57	53.84	32.89	20.95	0.984		
			37:55		1.03	3,914.79	1,986.90	1,927.89	1.000	1234678-HpCDD	AN
	DC	WH	38:10	RO	4.04	34.17			1.007		
	DC	WH	38:25	RO	4.03	76.38			1.014		
424-426			3 Peaks			7,449.89					

	13C12-HpCDD					0.88-1.20	0.868-1.079				
436-438	DC	NL	Height			115.77	76.58	39.19			
			37:54		1.14	5,453.42	2,904.73	2,548.69	1.000	13C12-HpCDD	678 IS13
						Height	1,341.13	673.13	668.00		
			38:06	RO	2.12	1,107.61	752.27	355.34	1.005		
	DC	SN	38:15	RO	1.34	96.82			1.009		
436-438			2 Peaks			6,561.03					

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

	OCDF					0.76-1.02	0.952-1.048				
442-444	DC	NL	Height			5.18	2.73	2.45			
	DC	WL	37:08		0.90	42.74			0.892		
			41:52		0.87	51,600.60	23,947.30	27,653.30	1.006	OCDF	AN
			42:04	RO	1.25	164.79	91.70	73.09	1.010		
442-444			2 Peaks			51,765.39					

	OCDD					0.76-1.02	0.952-1.048				
458-460	DC	NL	Height			4.49	2.16	2.33			
			41:39		0.85	27,436.10	12,602.70	14,833.40	1.000	OCDD	AN
458-460			1 Peak			27,436.10					

	13C12-OCDD					0.76-1.02	0.996-1.004				
470-472	DC	NL	Height			26.11	12.71	13.40			
			41:28	RO	1.23	152.39	84.06	68.33	0.996		
			41:38		0.86	9,535.17	4,413.08	5,122.09	1.000	13C12-OCDD	IS14
						Height	2,026.87	925.07	1,101.80		
	DC	WH	42:03	RO	1.68	2,521.14			1.010		
470-472			2 Peaks			9,687.56					

Compound/

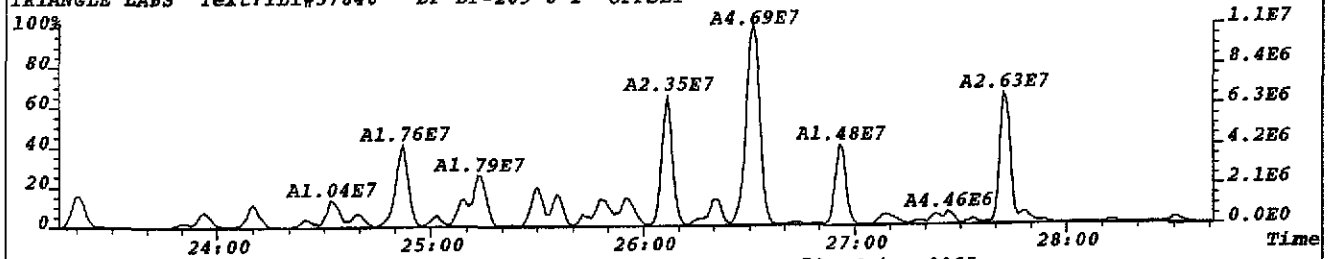
M_Z.... QC.Log Omit Why ..RT. OK Ratio Total.Area/Ht Area/Ht.Peak1 Area/Ht.Peak2 Rel.RT Compound.Name.. ID.. Flags.

Column Description..... "Why" Code Description..... QC Log Desc.....

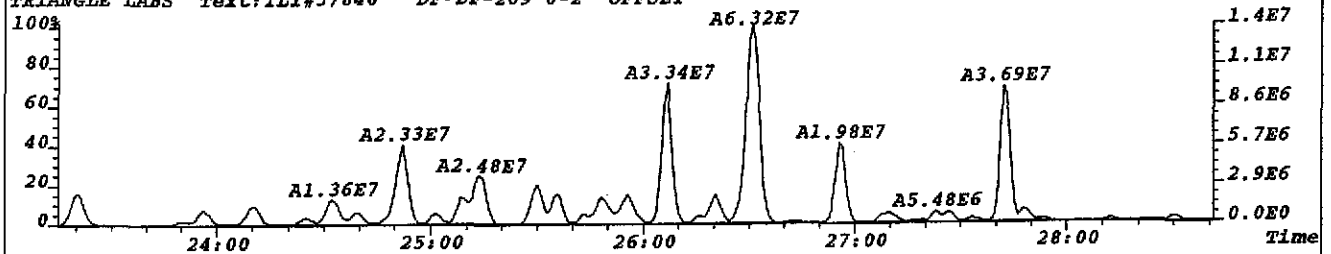
M_Z	-Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT.	-Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1	-Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK	-RO=Ratio Outside Limits	<M-Below Method Detection Limit	T-Time Changed
Rel.RT	-Relative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

*** End of Report ***

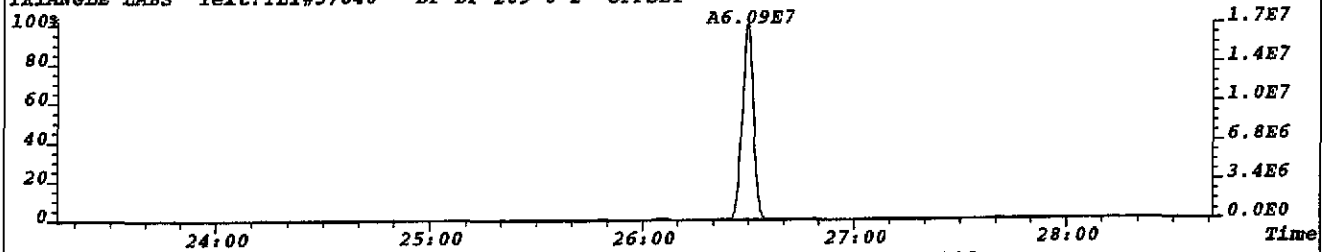
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303.9016 S:12 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,50200.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



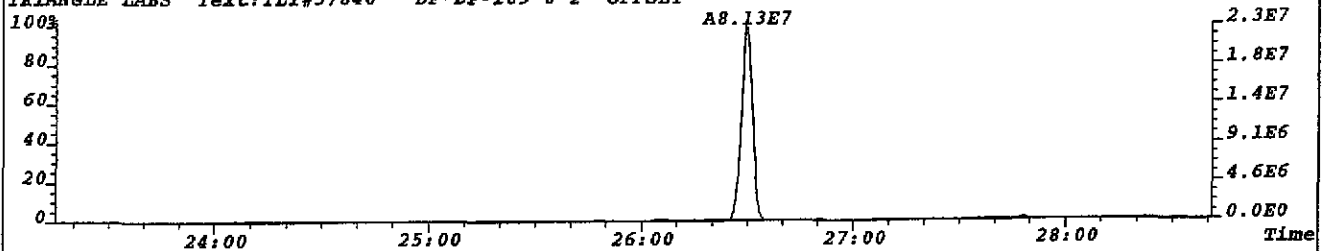
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305.8987 S:12 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,32260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



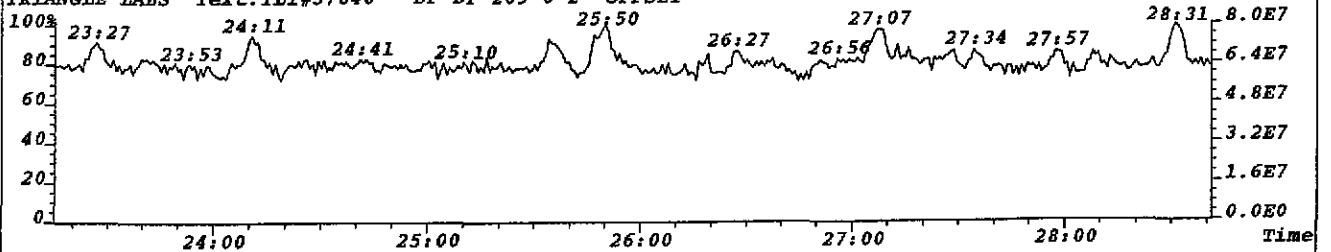
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315.9419 S:12 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,14472.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



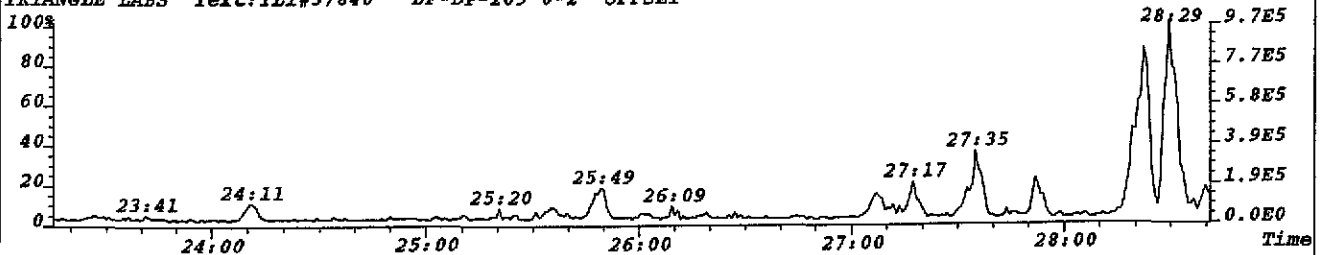
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317.9389 S:12 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,16944.0,1.00%,F,T) Exp:NDB5US
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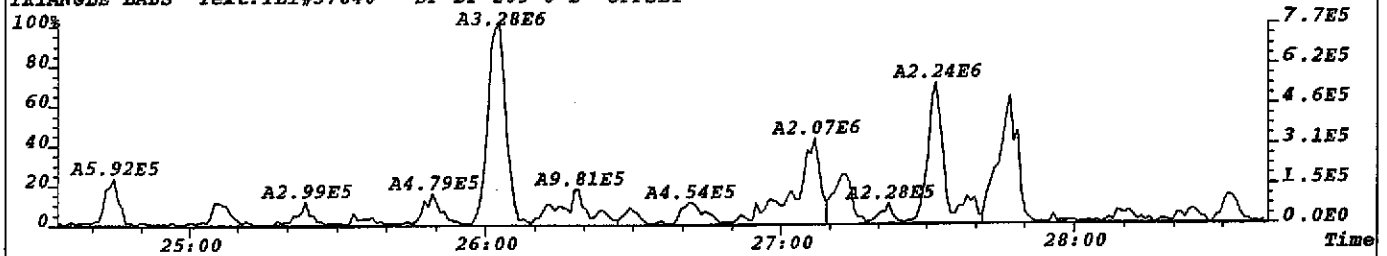
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330.9792 S:12 F:2 Exp:NDB5US
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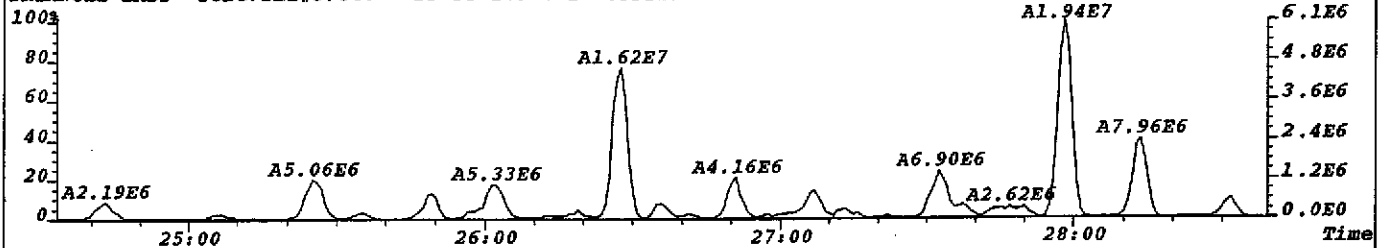
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375.8364 S:12 F:2 Exp:NDB5US
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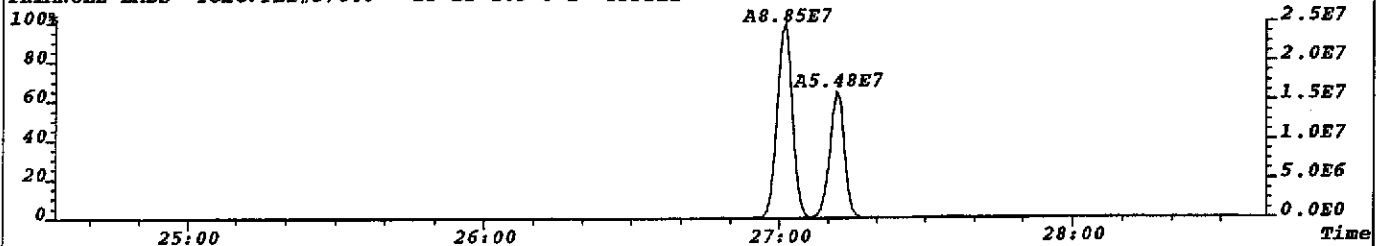
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319.8965 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10664.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



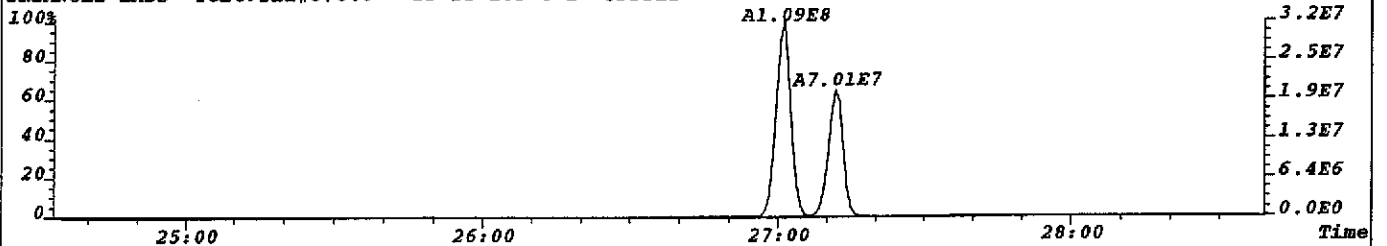
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321.9936 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,9332.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



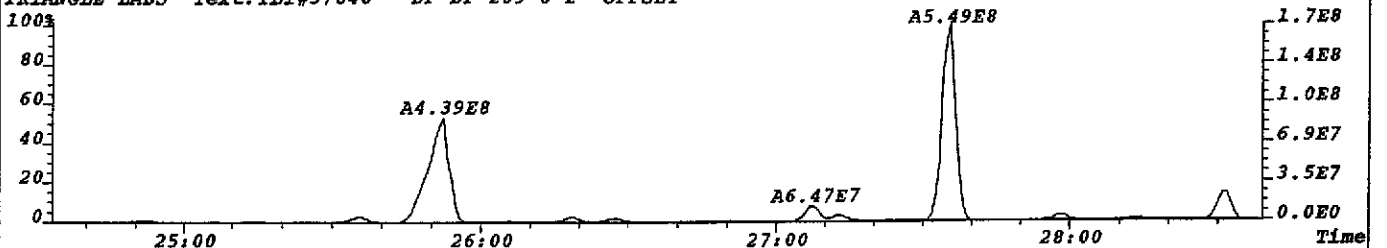
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331.9368 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,34396.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



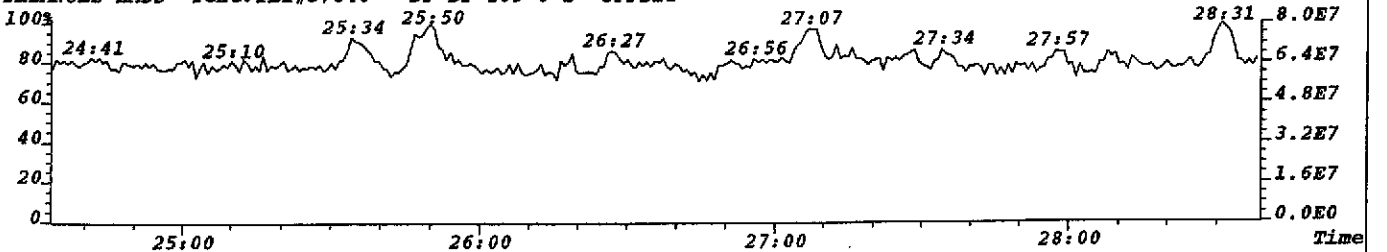
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333.9338 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10700.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



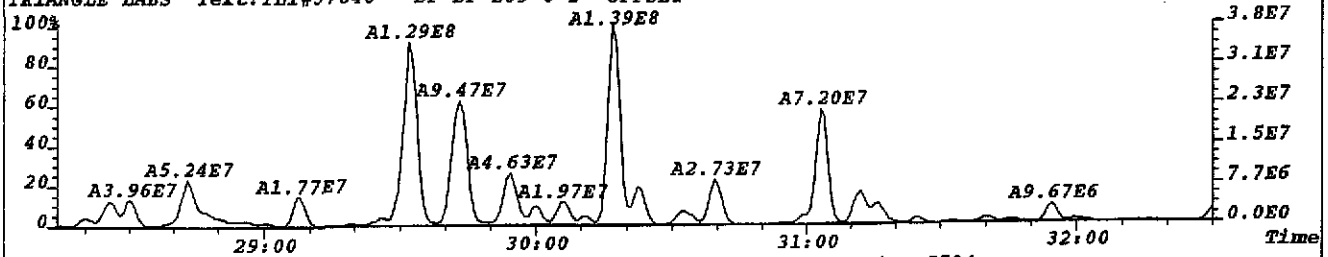
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327.8847 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,62796.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



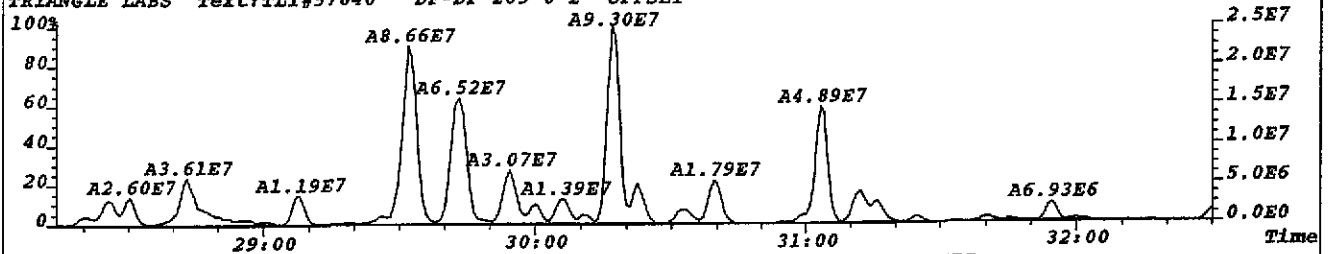
File:W1082 #1-797 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S
330.9792 S:12 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



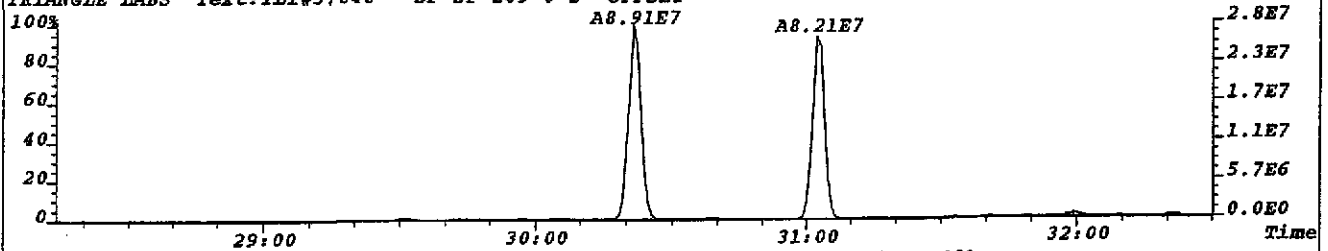
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339.8597 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,23220.0,1.00%,F,T) Exp:NDB5US
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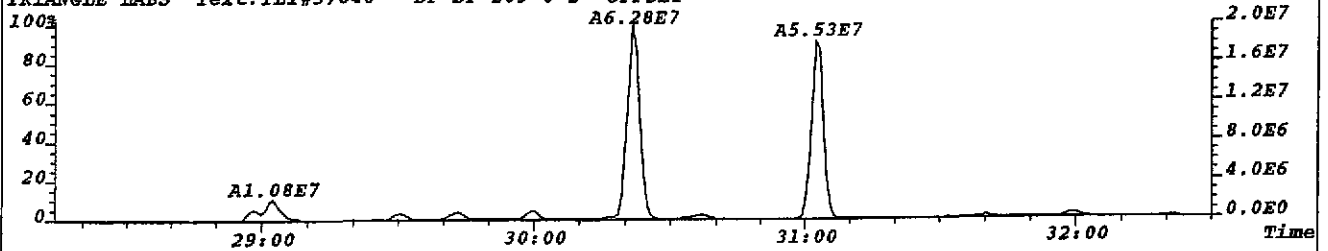
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341.8567 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,22896.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



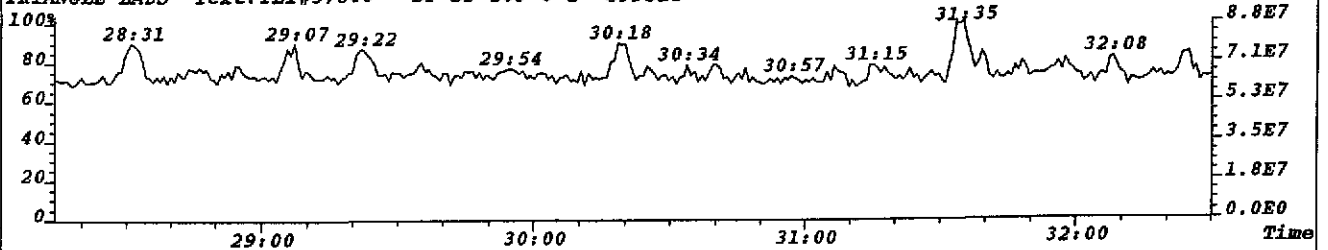
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351.9000 S:12 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11100.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



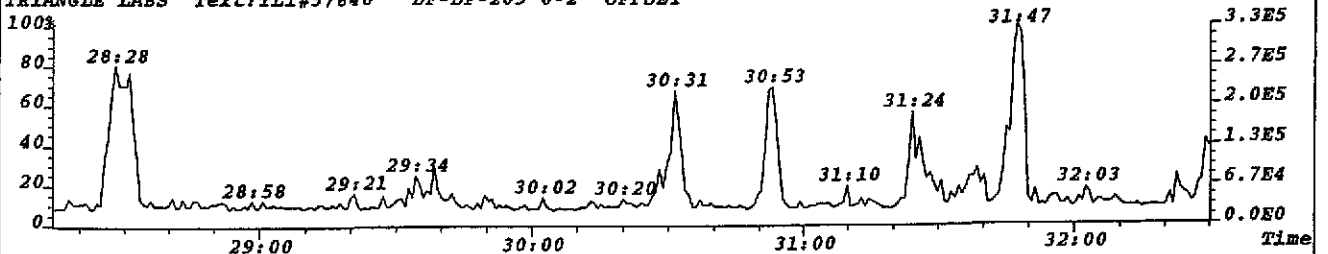
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TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



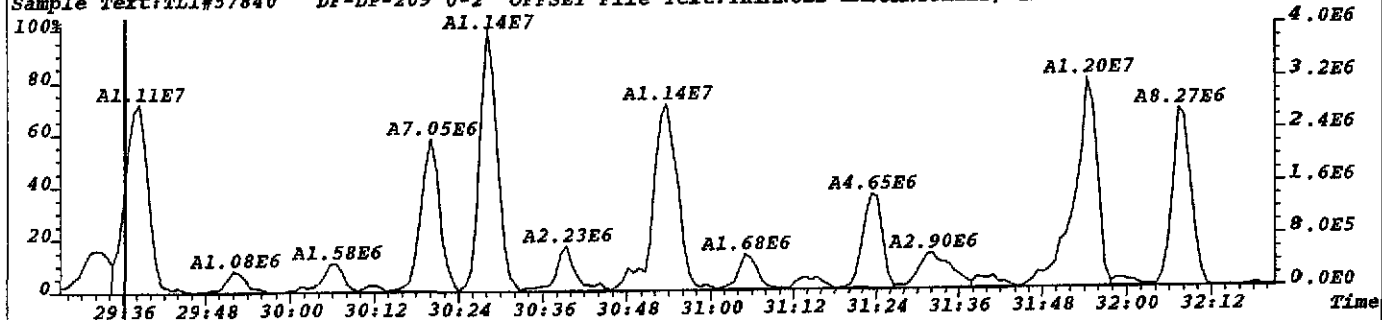
File:W1082 #1-797 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S
330.9792 S:12 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



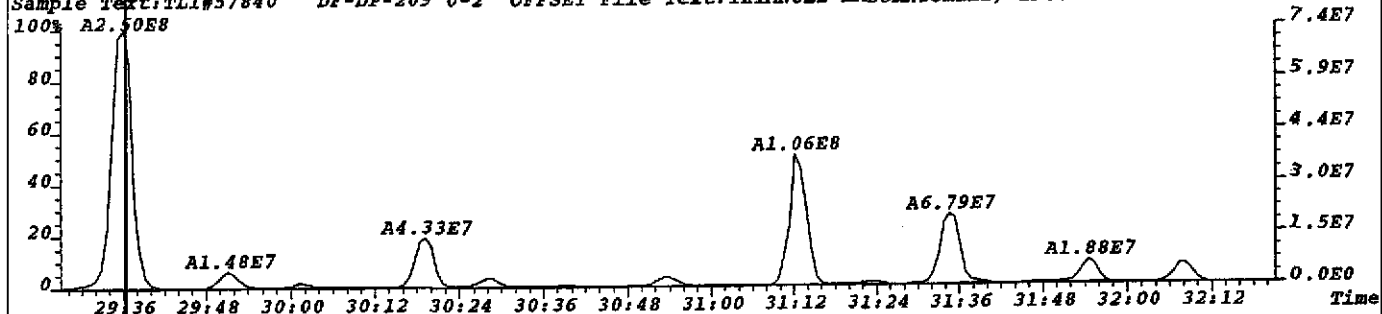
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409.7974 S:12 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



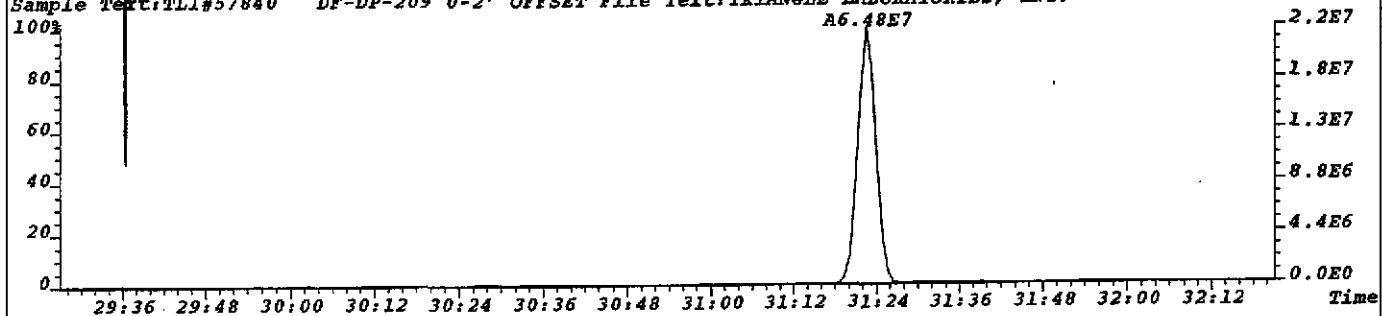
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355.8546 S:12 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,16644.0,1.00%,F,T) Exp:NDB5US Noise:4161
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



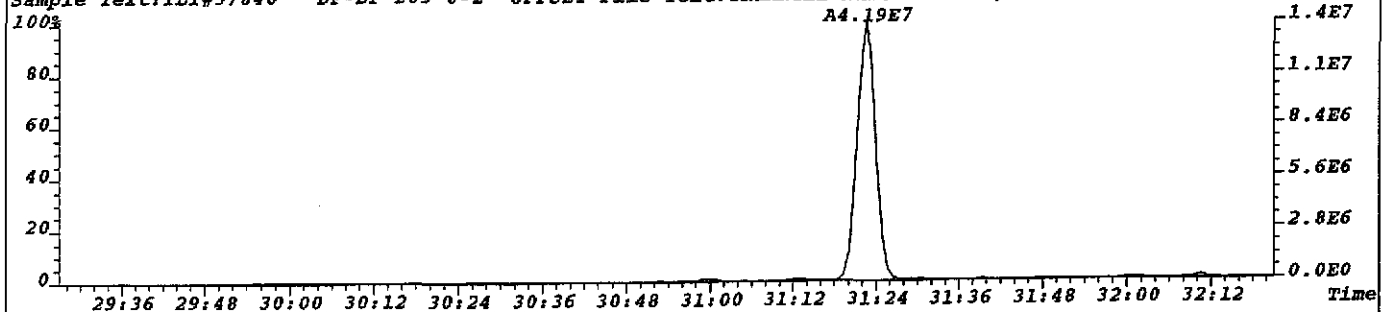
File:W1082 #1-797 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S
357.8516 S:12 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,39064.0,1.00%,F,T) Exp:NDB5US Noise:9766
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



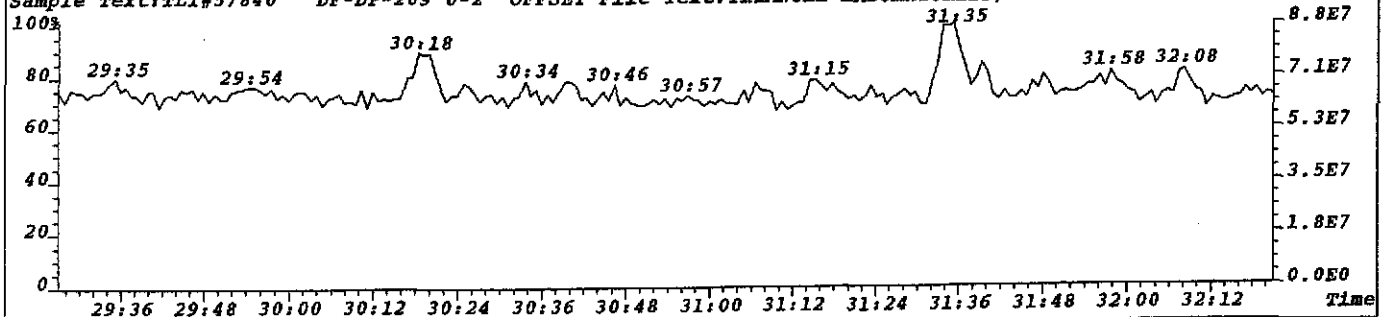
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367.8949 S:12 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,14140.0,1.00%,F,T) Exp:NDB5US Noise:3535
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



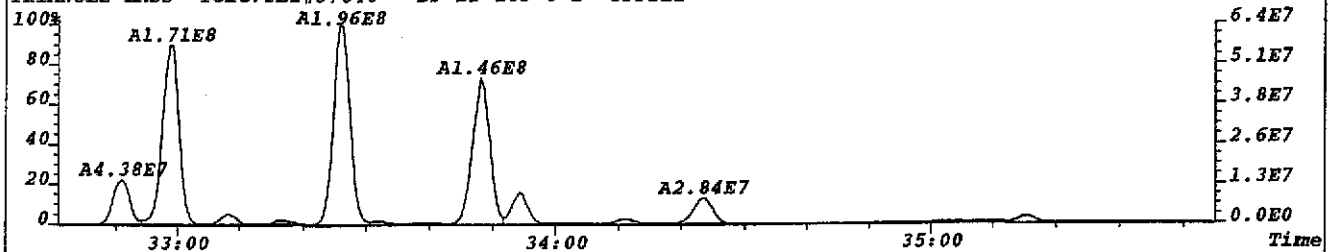
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369.8919 S:12 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,6680.0,1.00%,F,T) Exp:NDB5US Noise:1670
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



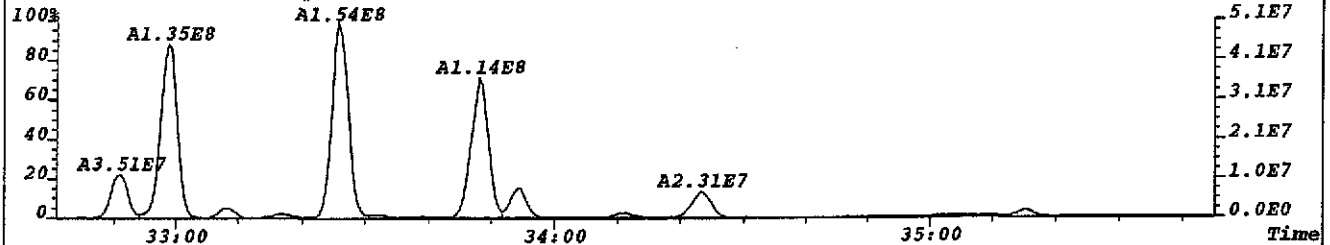
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330.9792 S:12 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



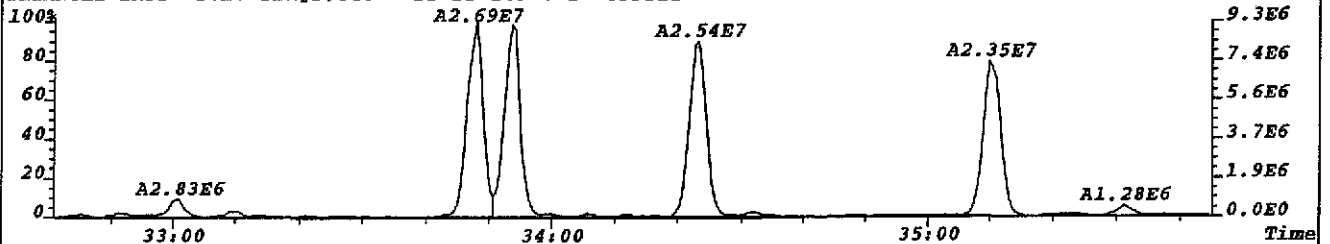
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373.8208 S:12 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,114380.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



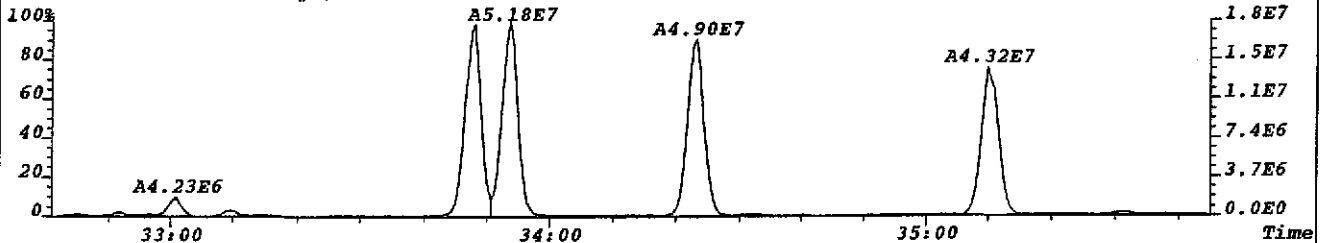
File:W1082 #1-423 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S Noise:21114
375.8178 S:12 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,84456.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



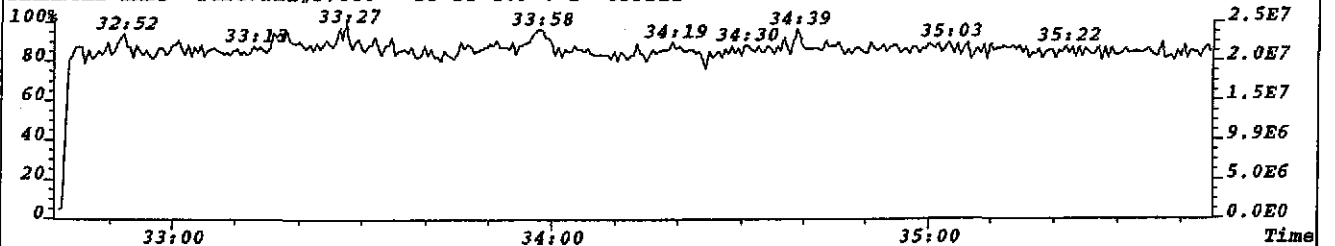
File:W1082 #1-423 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S Noise:9797
383.8639 S:12 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,39188.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



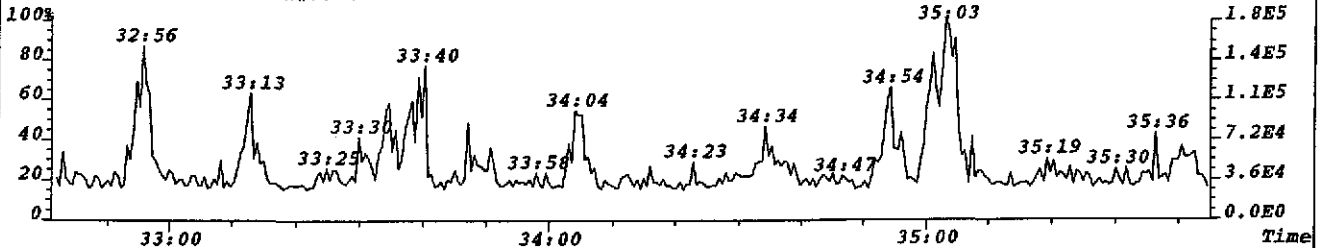
File:W1082 #1-423 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S Noise:16913
385.8610 S:12 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,67652.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



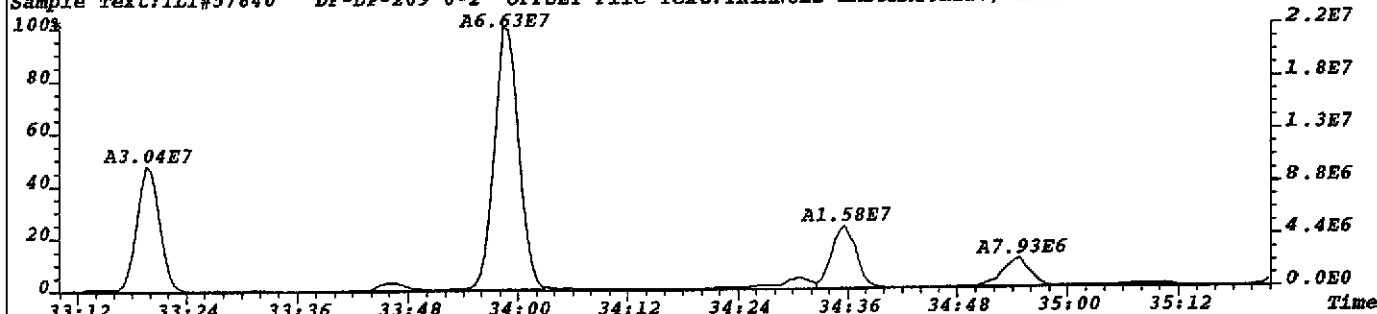
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392.9760 S:12 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



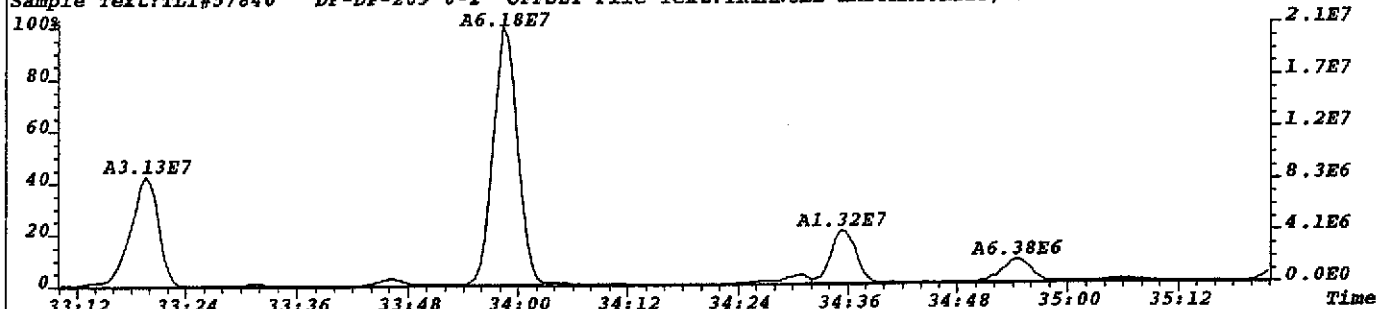
File:W1082 #1-423 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S
445.7555 S:12 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



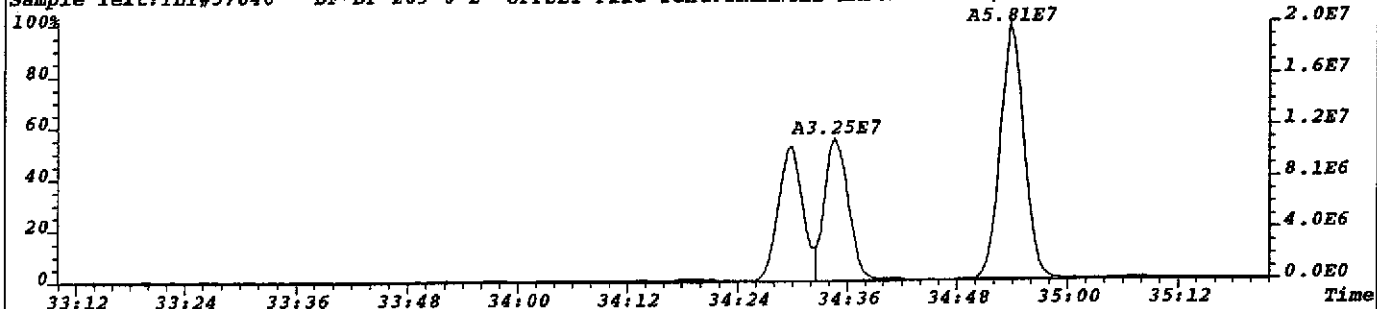
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389.8156 S:12 F:3 BSub(256,30,-3.0) PKD(7,5,3,0.10%,53024.0,1.00%,F,T) Exp:NDB5US Noise:13256
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



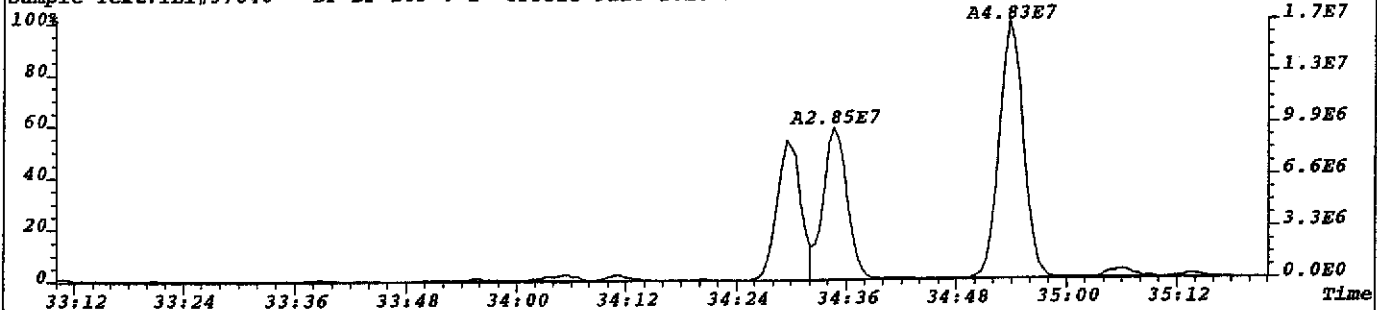
File:W1082 #1-423 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S
391.8127 S:12 F:3 BSub(256,30,-3.0) PKD(7,5,3,0.10%,105292.0,1.00%,F,T) Exp:NDB5US Noise:26323
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



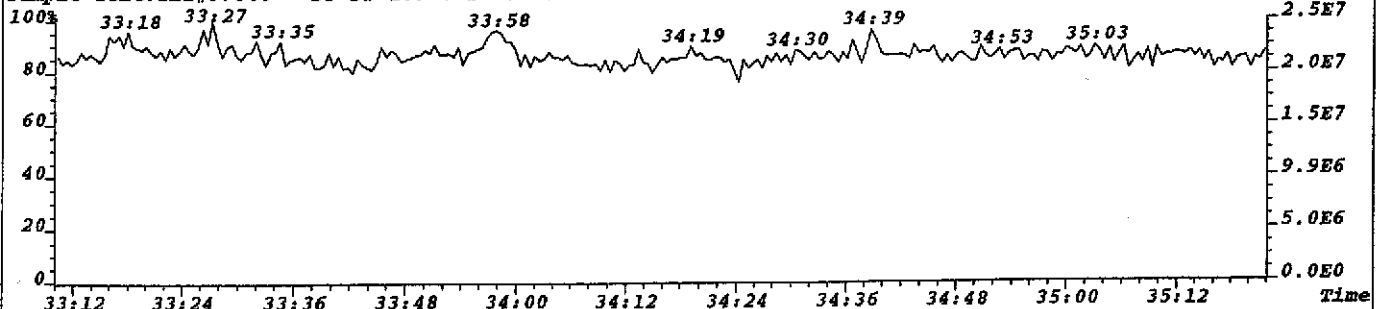
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401.8558 S:12 F:3 BSub(256,30,-3.0) PKD(7,5,3,0.10%,69800.0,1.00%,F,T) Exp:NDB5US Noise:17450
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



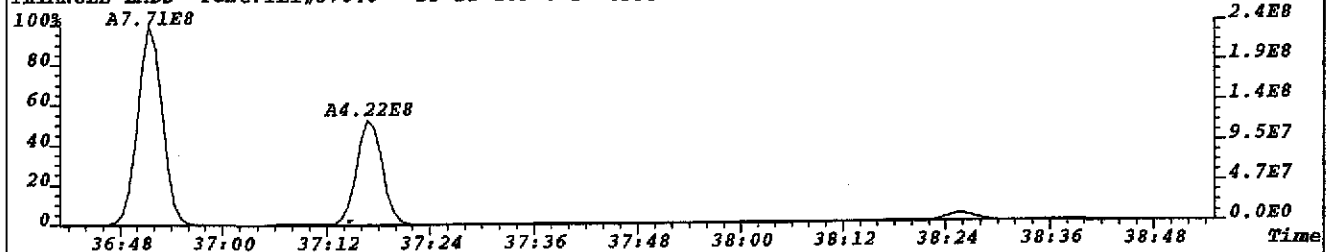
File:W1082 #1-423 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S
403.8529 S:12 F:3 BSub(256,30,-3.0) PKD(7,5,3,0.10%,60140.0,1.00%,F,T) Exp:NDB5US Noise:15035
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



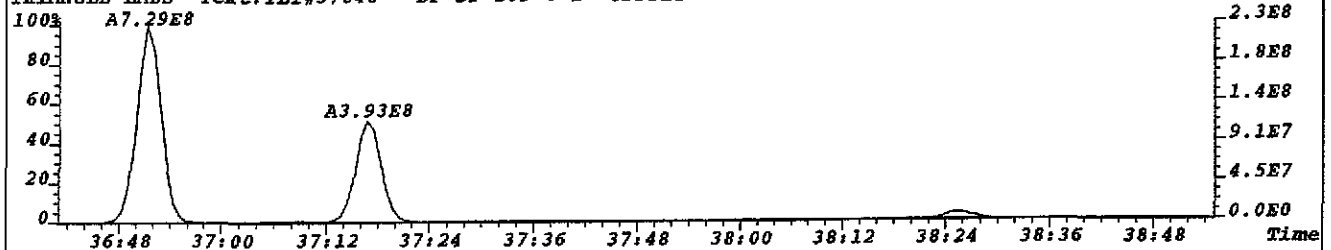
File:W1082 #1-423 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S
392.9760 S:12 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



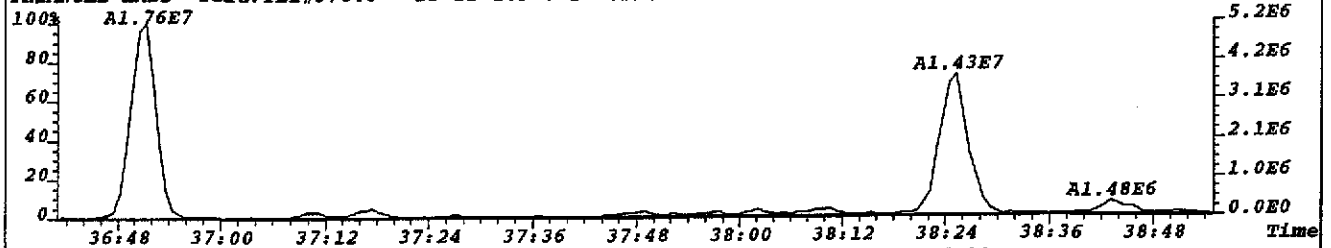
File:W1082 #1-674 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S Noise:17811
407.7818 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,71244.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



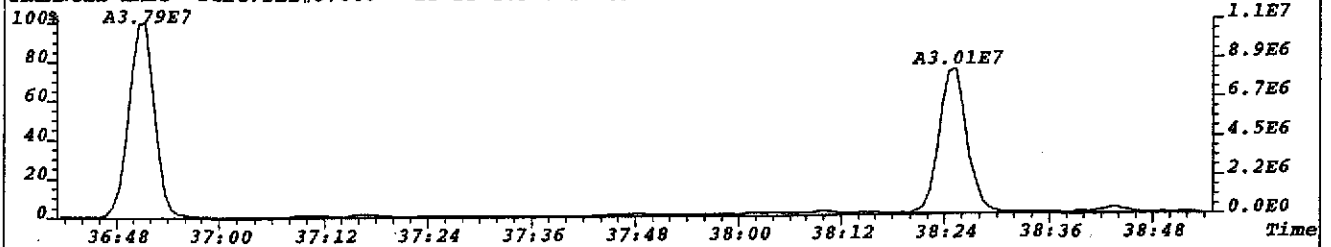
File:W1082 #1-674 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S Noise:14643
409.7789 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,58572.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



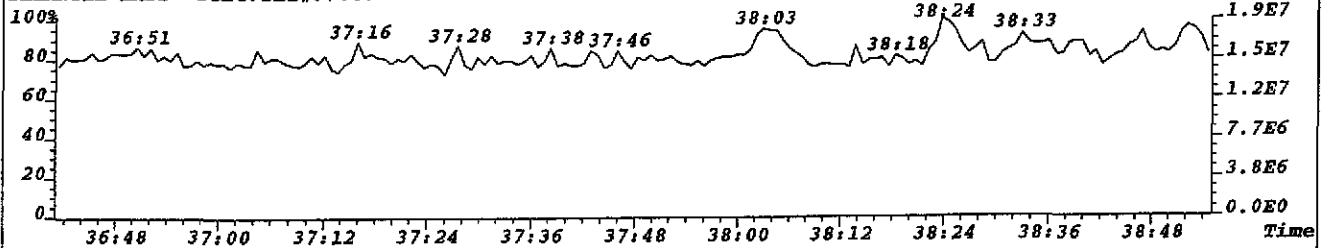
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417.8253 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,37776.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



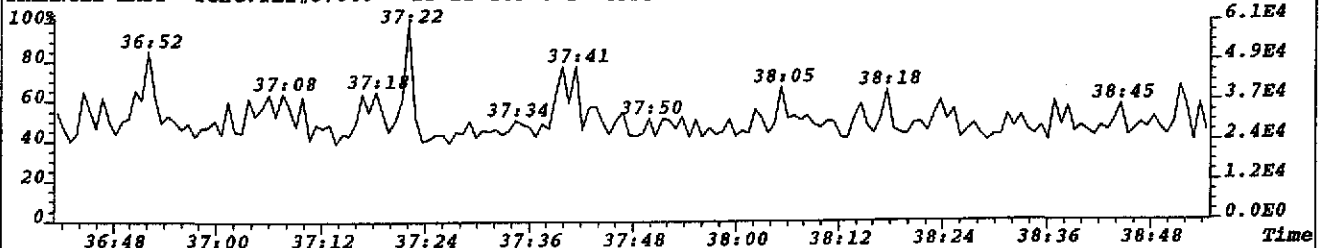
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419.8220 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,60532.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



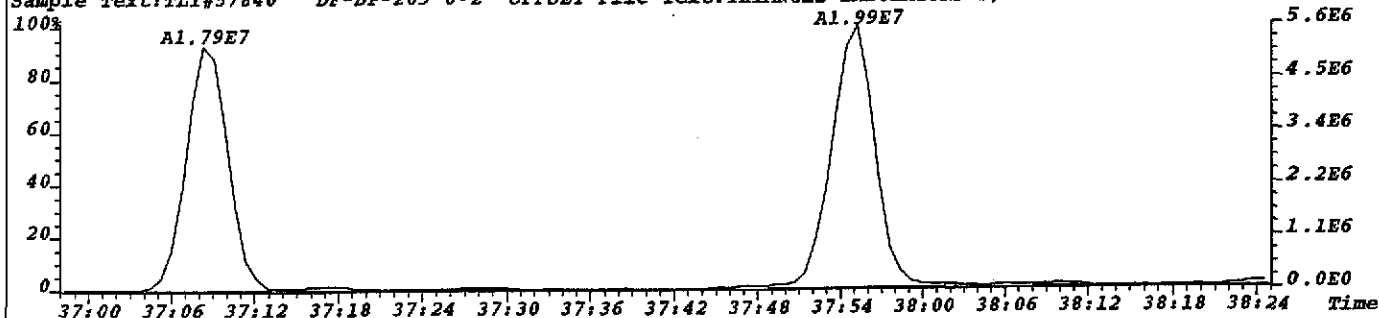
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430.9729 S:12 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



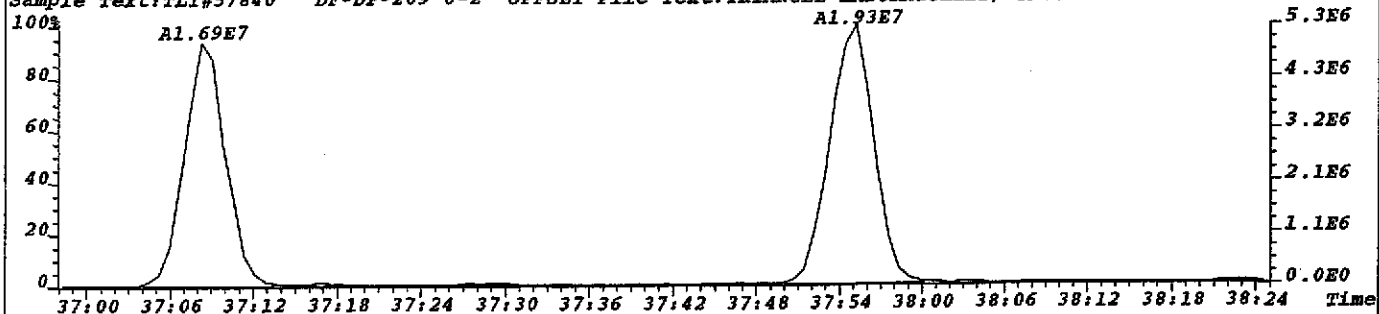
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479.7165 S:12 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-209 0-2' OFFSET



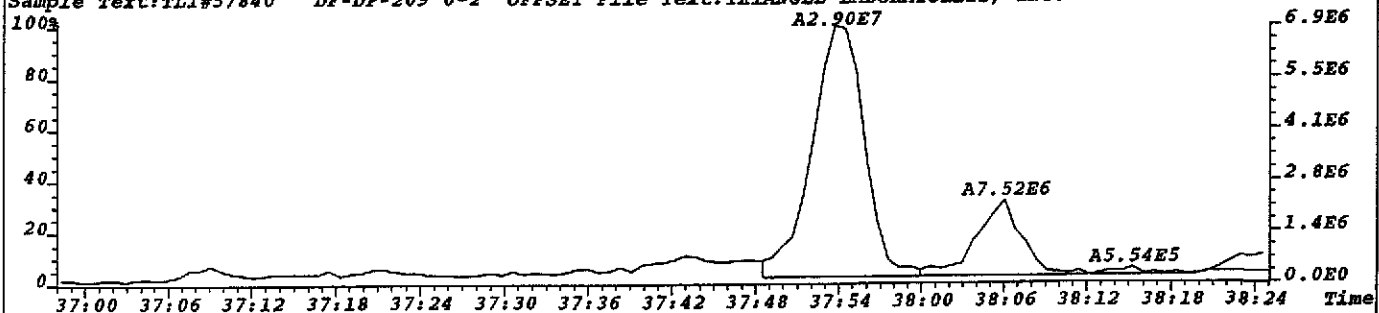
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423.7766 S:12 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,26880.0,1.00%,F,T) Exp:NDB5US Noise:6720
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



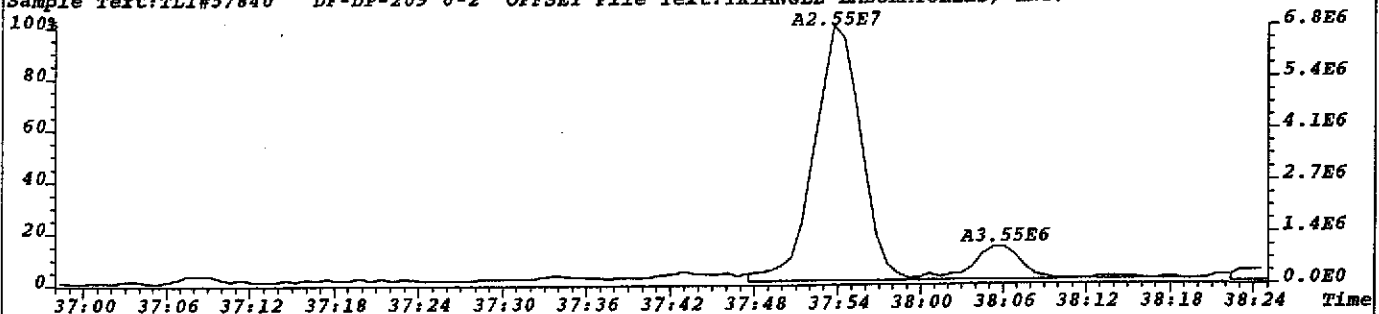
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425.7737 S:12 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,24920.0,1.00%,F,T) Exp:NDB5US Noise:6230
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



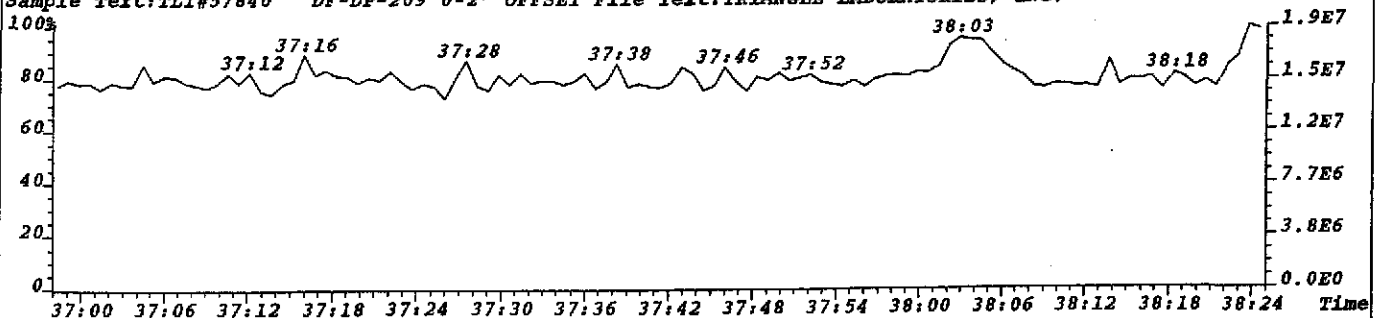
File:W1082 #1-674 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S
435.8169 S:12 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,382876.0,1.00%,F,T) Exp:NDB5US Noise:95719
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



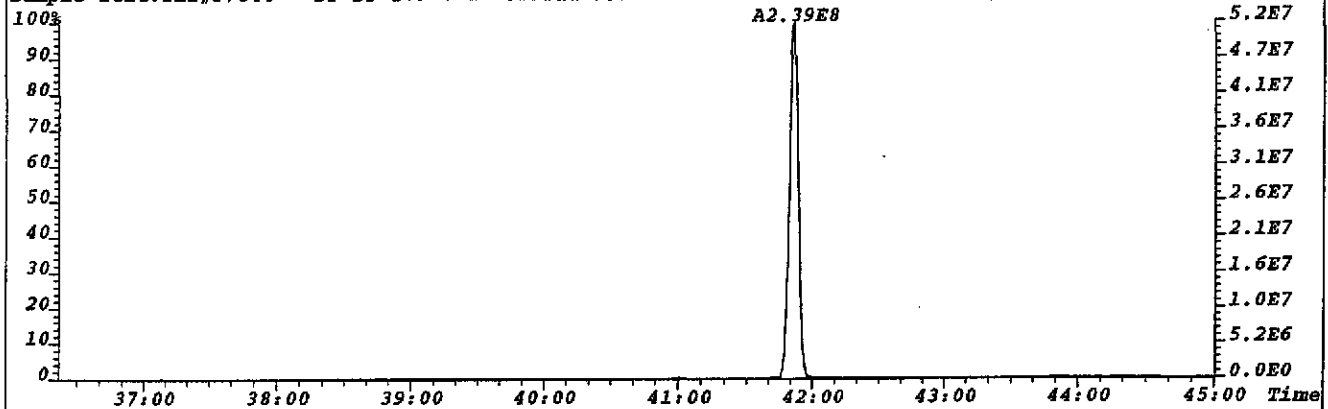
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437.8140 S:12 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,195936.0,1.00%,F,T) Exp:NDB5US Noise:48984
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



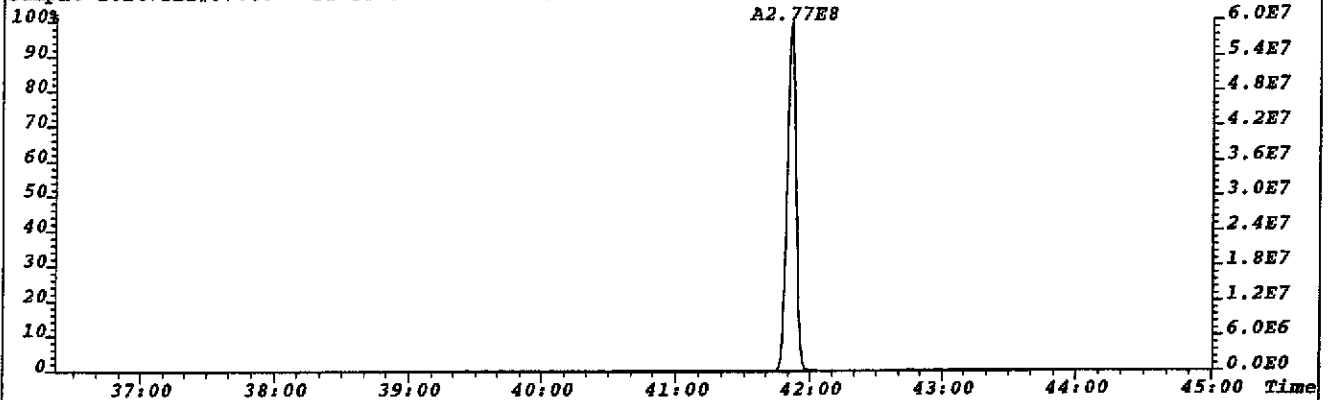
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Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



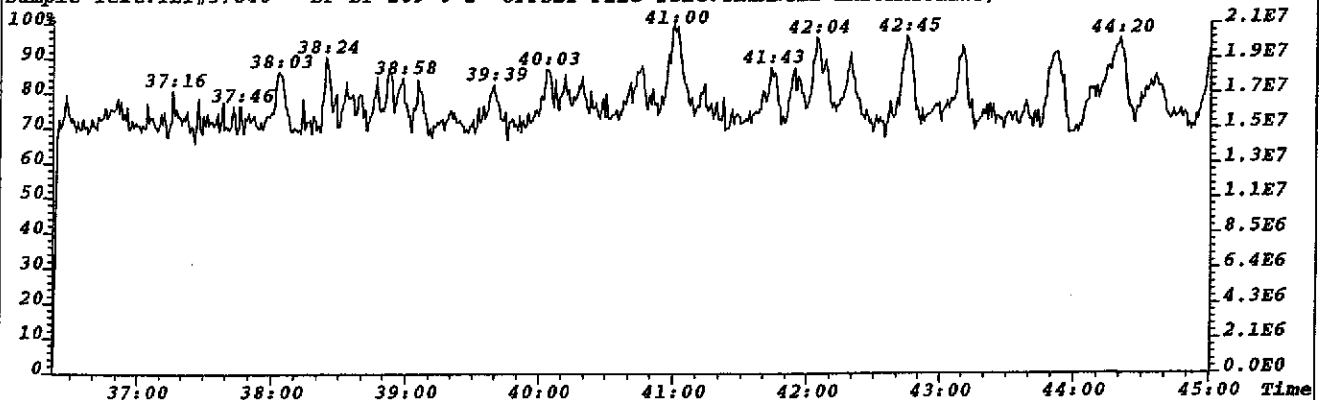
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441.7428 S:12 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,13664.0,1.00%,F,T) Exp:NDB5US
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



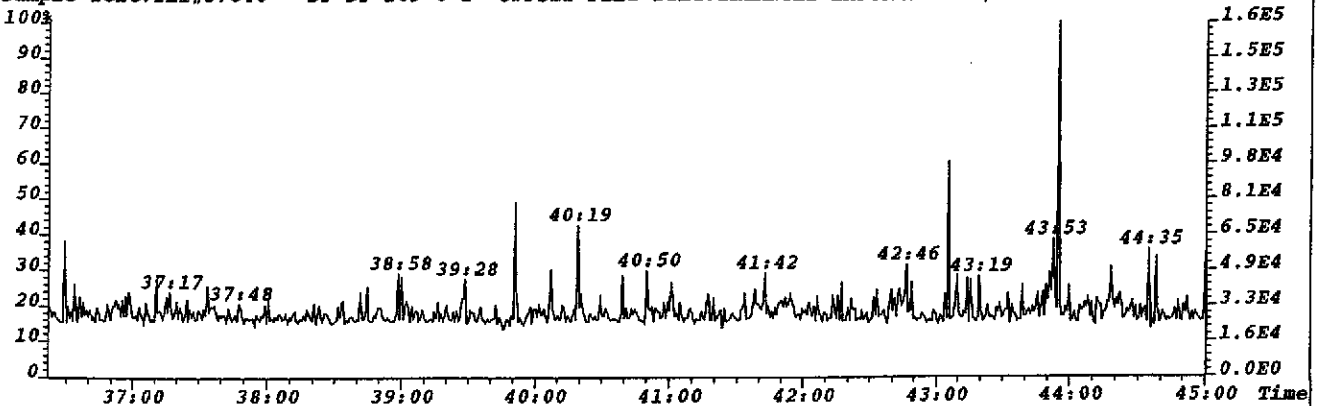
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443.7399 S:12 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,12248.0,1.00%,F,T) Exp:NDB5US
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



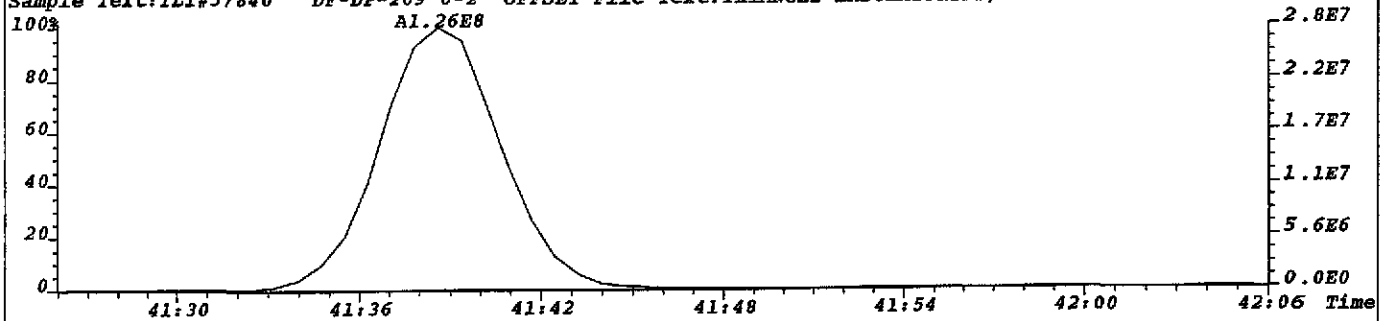
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430.9729 S:12 F:4 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



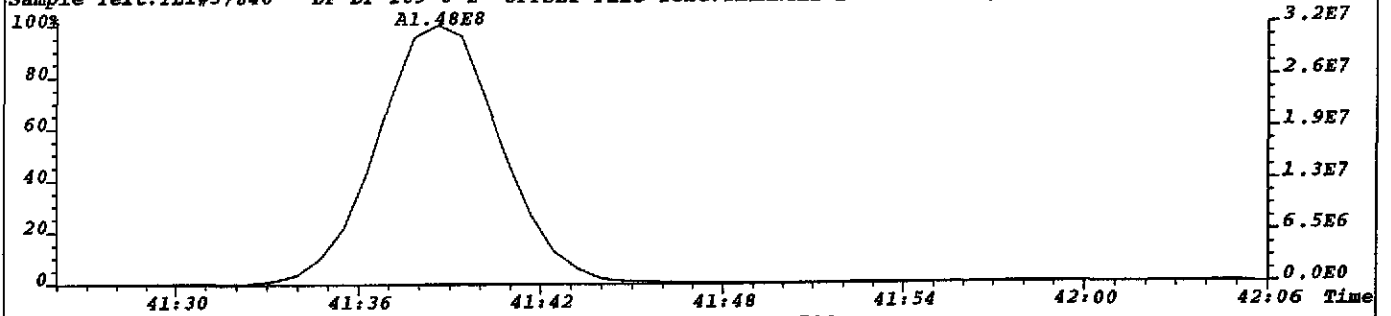
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513.6775 S:12 F:4 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



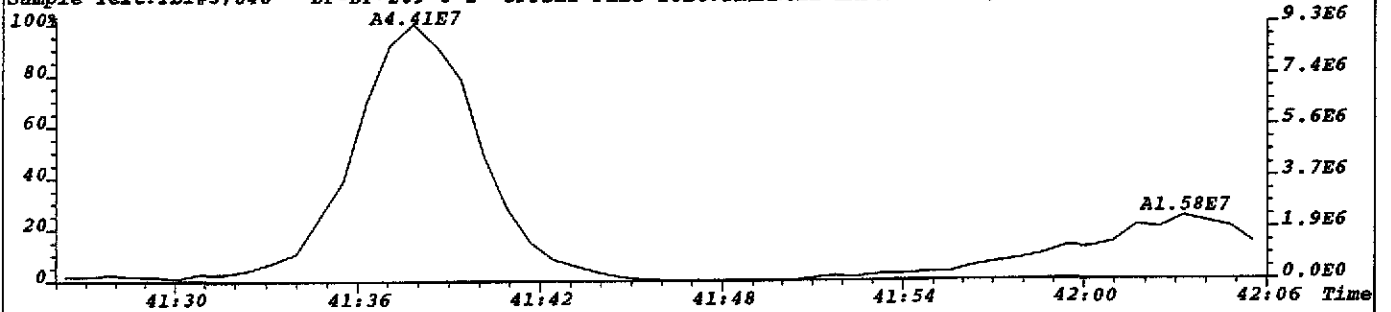
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457.7377 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10780.0,1.00%,F,T) Exp:NDB5US Noise:2695
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



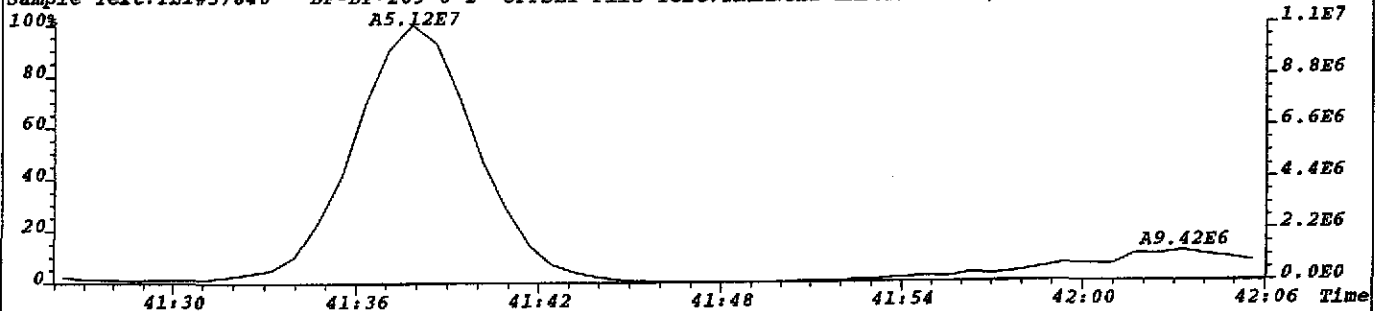
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459.7348 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11664.0,1.00%,F,T) Exp:NDB5US Noise:2916
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



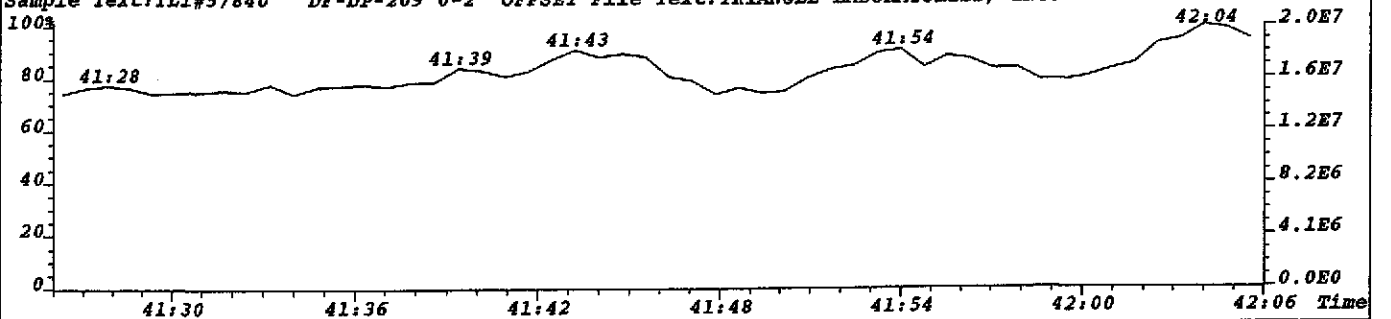
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469.7779 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,63564.0,1.00%,F,T) Exp:NDB5US Noise:15891
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



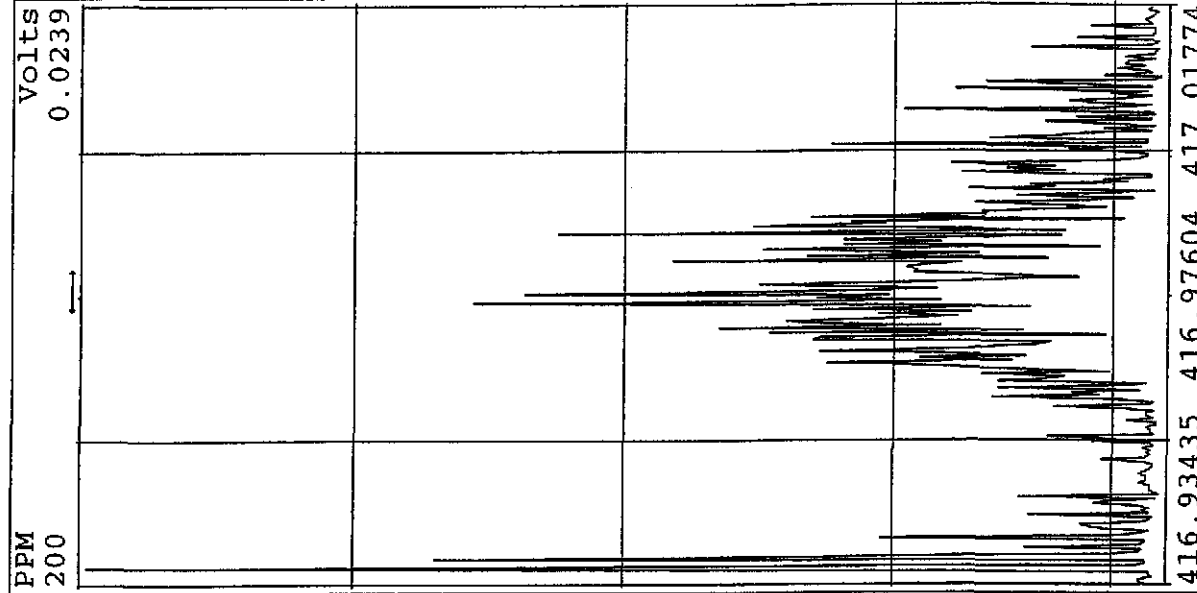
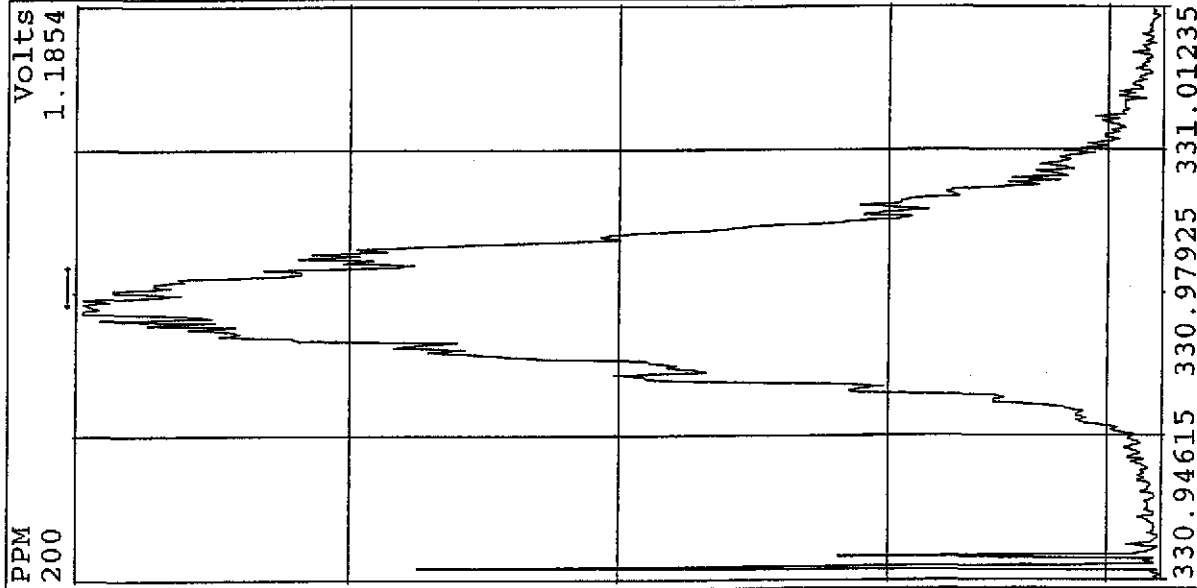
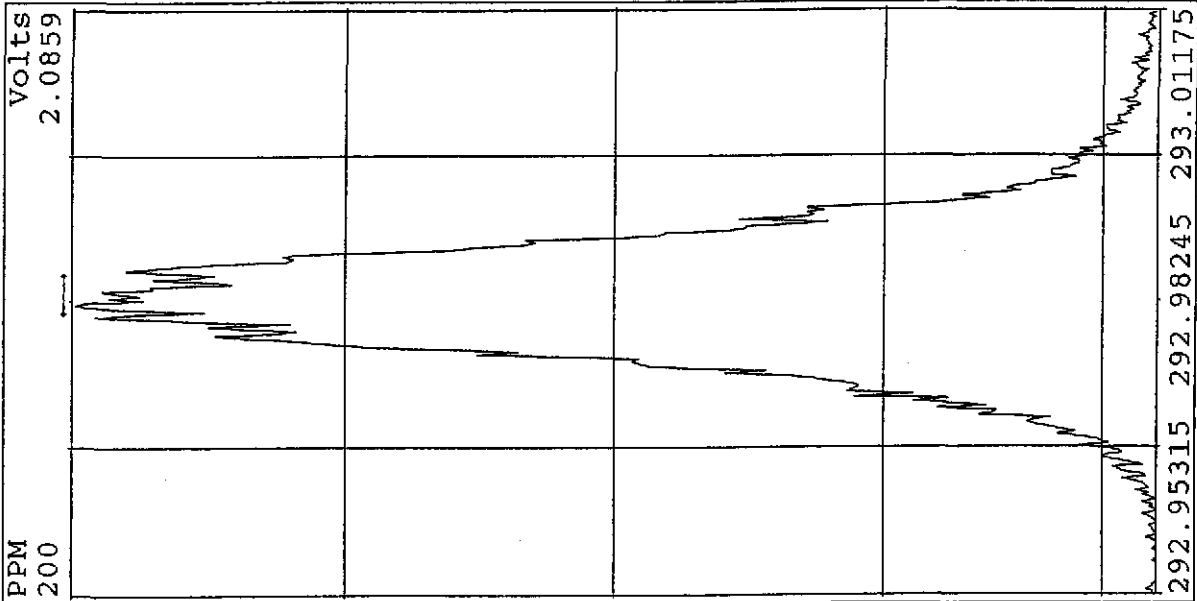
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471.7750 S:12 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,67024.0,1.00%,F,T) Exp:NDB5US Noise:16756
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-674 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S
430.9729 S:12 F:4 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



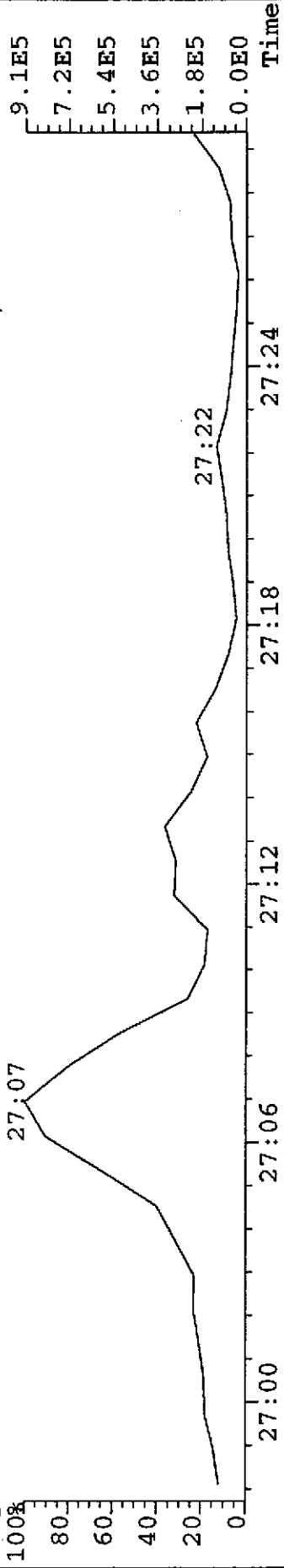
Peak Locate Examination: 17-JUL-2002:15:51 File:W1082
Experiment:NDB5US Function:2 Reference:PFK



File:W1082 #1-797 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S

321.8936 S:12 F:2 Exp:NDB5US

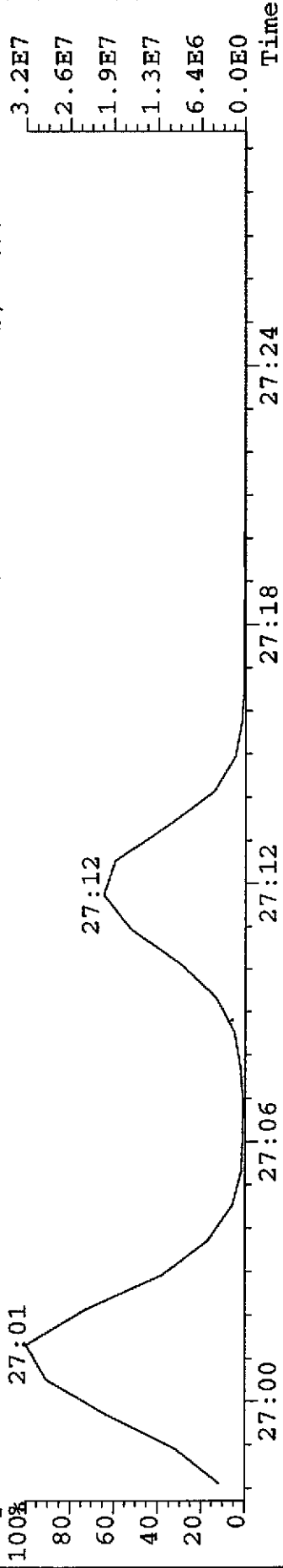
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-797 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S

333.9338 S:12 F:2 Exp:NDB5US

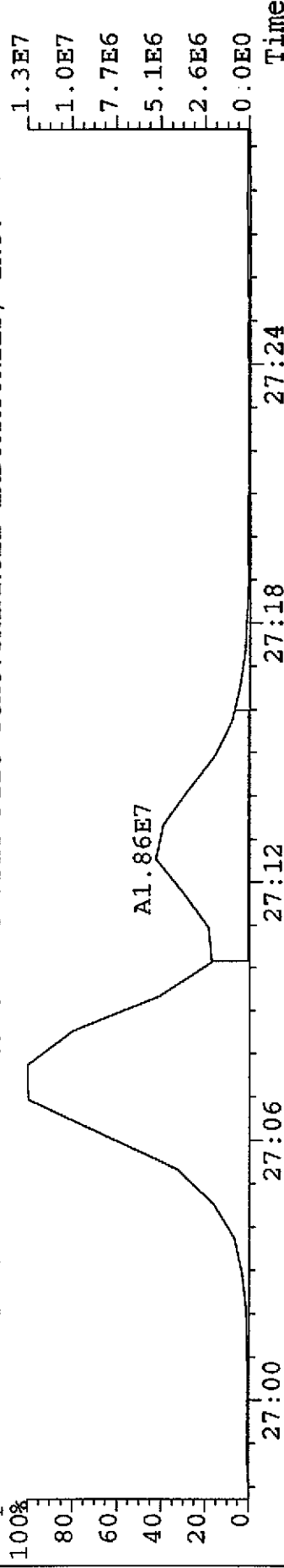
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-797 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S

327.8847 S:12 F:2 Exp:NDB5US

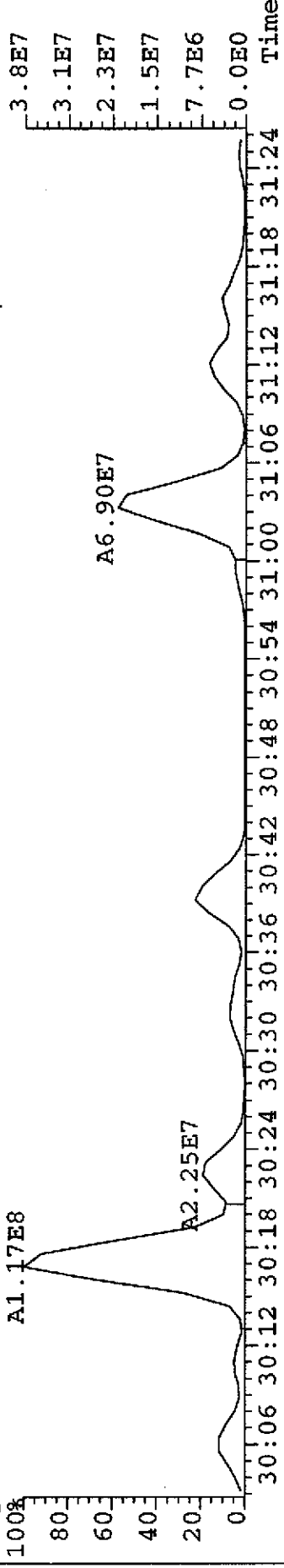
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-797 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S

339.8597 S:12 F:2 Exp:NDB5US

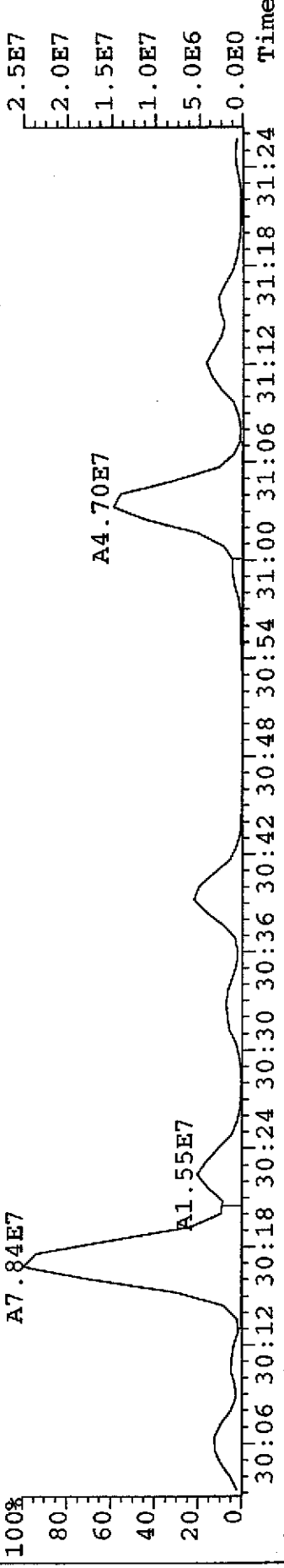
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-797 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S

341.8567 S:12 F:2 Exp:NDB5US

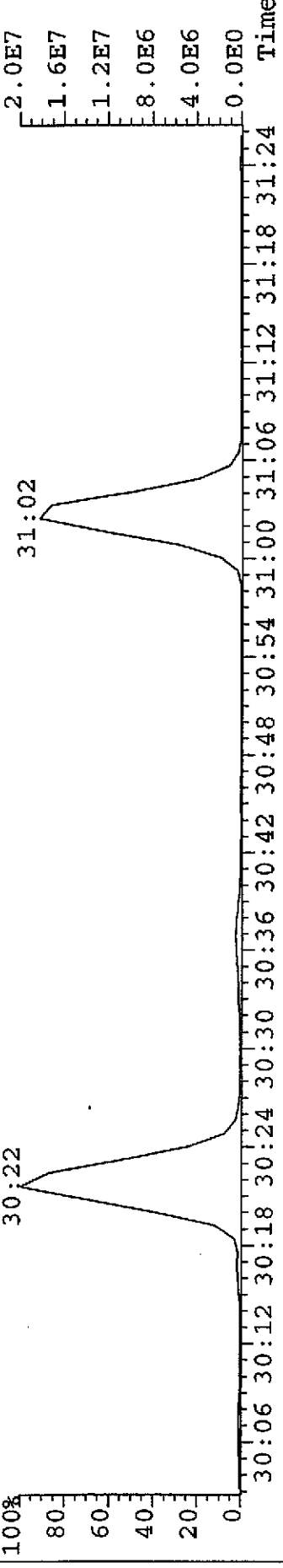
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-797 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S

353.8970 S:12 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.

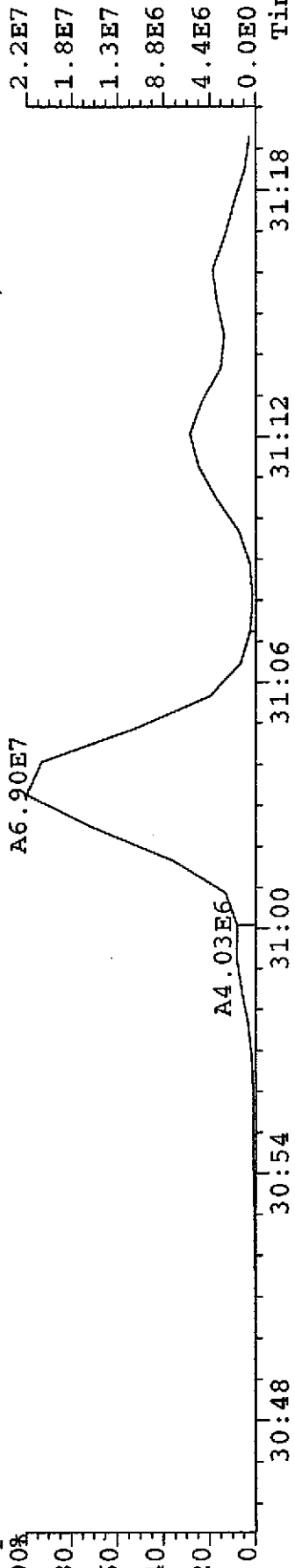


Handwritten signature

File:W1082 #1-797 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S

339.8597 S:12 F:2 Exp:NDB5US

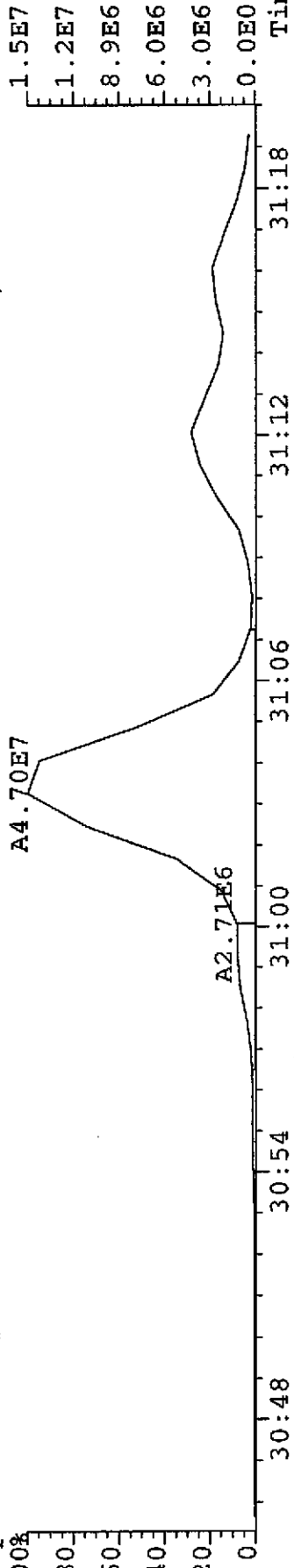
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-797 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S

341.8567 S:12 F:2 Exp:NDB5US

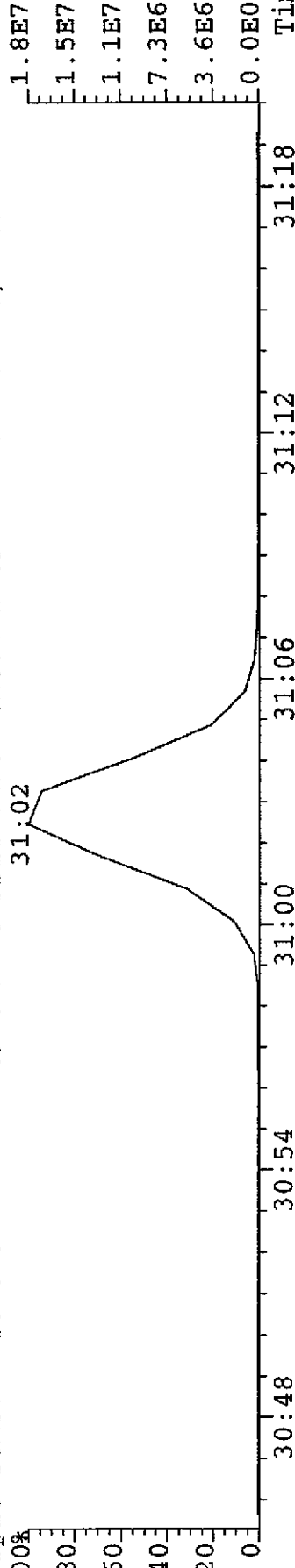
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-797 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S

353.8970 S:12 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



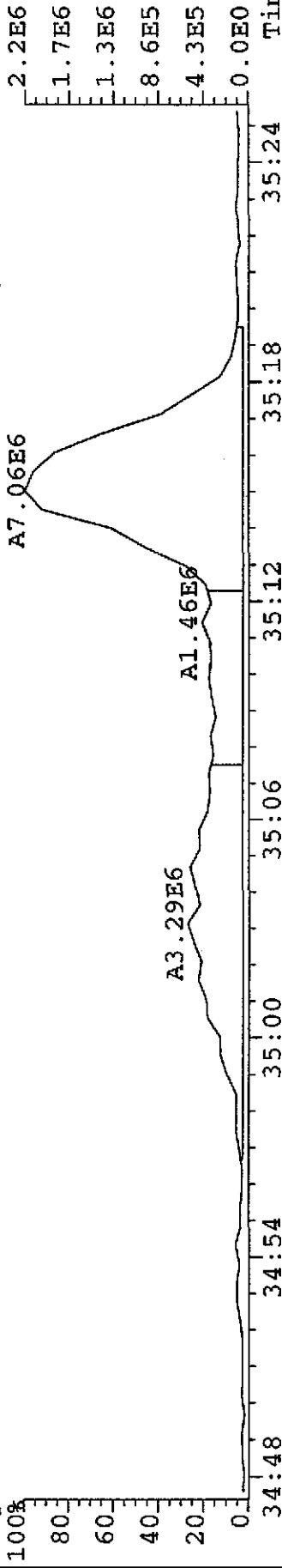
Handwritten signature

File:W1082 #1-423 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S

373.8208 S:12 F:3 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.

A7.06E6

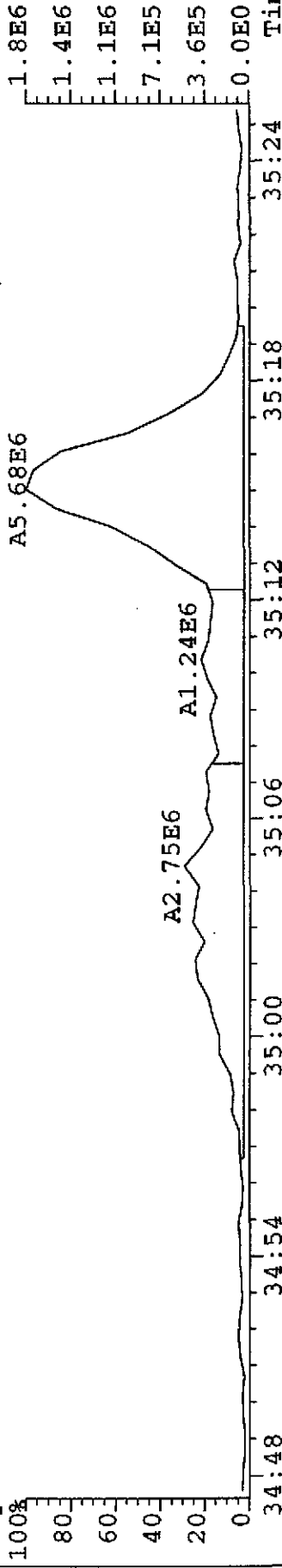


File:W1082 #1-423 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S

375.8178 S:12 F:3 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.

A5.68E6

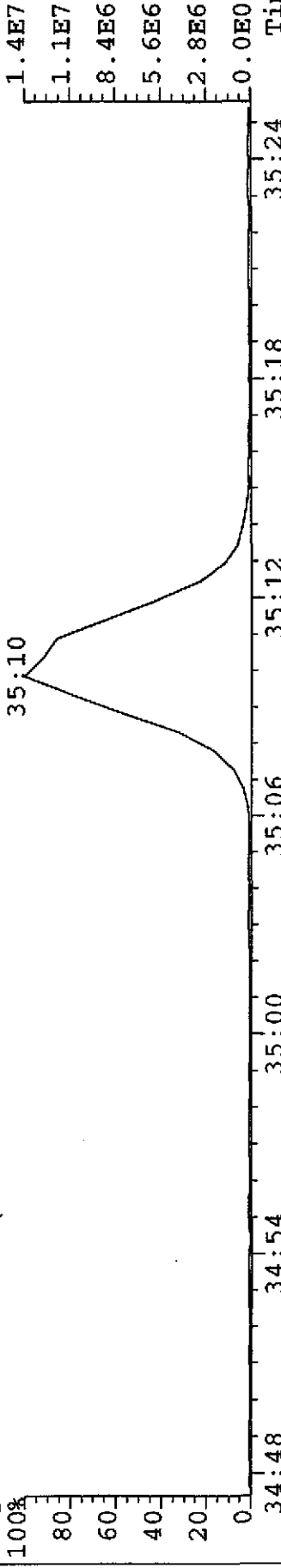


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385.8610 S:12 F:3 Exp:NDB5US

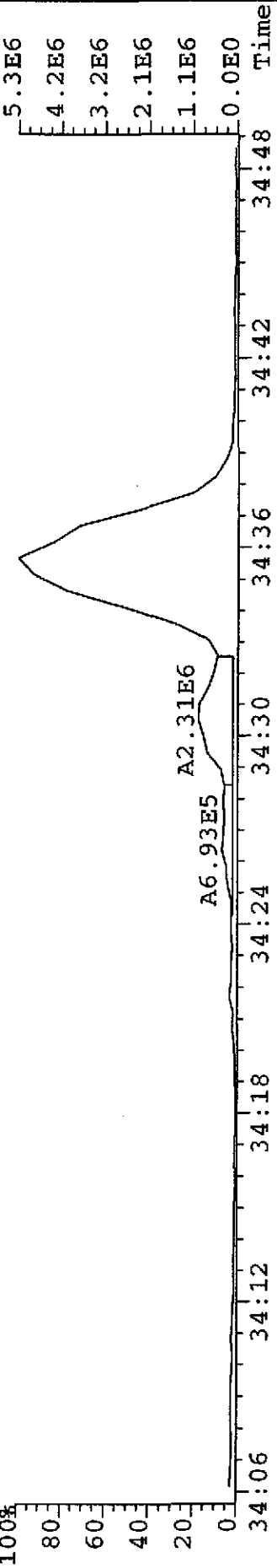
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.

35:10

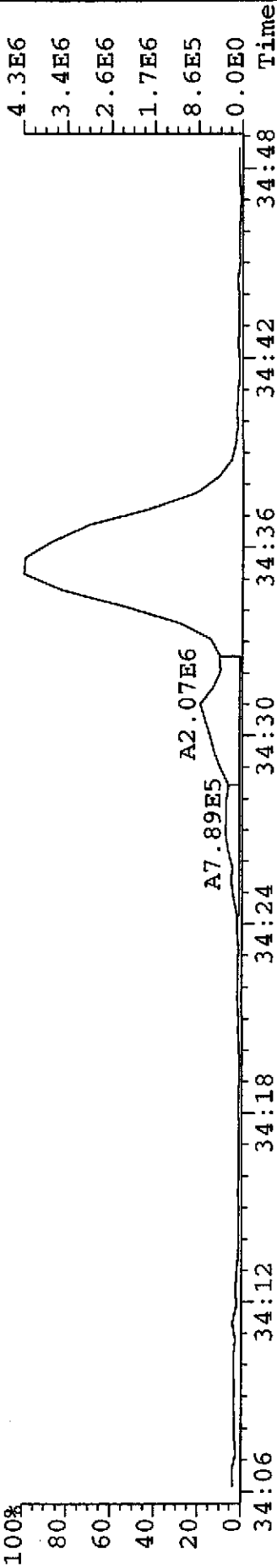


Handwritten mark

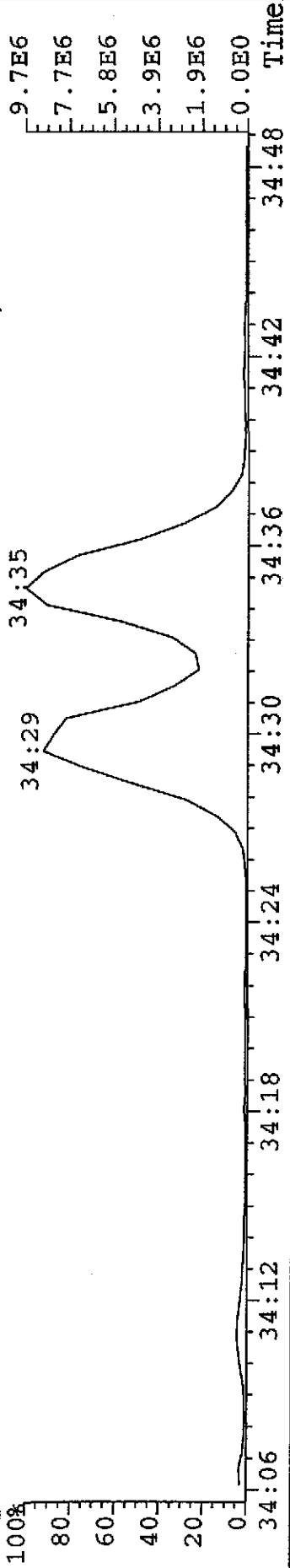
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389.8156 S:12 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-423 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S
391.8127 S:12 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-423 Acq:18-JUL-2002 00:41:42 GC EI+ Voltage SIR 70S
403.8529 S:12 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-209 0-2' OFFSET File Text:TRIANGLE LABORATORIES, INC.



Handwritten signature

InitialDate...

Data Review By:

gt 7/18/02

Channel specific noise levels computed from 'NL' heights.

Page No. 1
07/18/2002

Listing of P022560B.dbf
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				0.793-1.106			
304-306	DC NL	Height	0.18	0.08	0.10				
		19:00 RO	7.54	29.99	26.48	3.51	0.805		
		19:12 RO	1.08	1.35	0.70	0.65	0.813		J
		19:25 RO	3.89	2.20	1.75	0.45	0.822		
		19:36	0.71	9.29	3.87	5.42	0.830		
		19:43	0.85	49.96	22.91	27.05	0.835		
		19:56 RO	0.96	13.93	6.82	7.11	0.844		
		20:05 RO	1.09	12.82	6.70	6.12	0.850		
		20:11	0.75	34.79	14.88	19.91	0.855		
		20:22	0.74	3.90	1.66	2.24	0.862		
		20:38	0.84	9.59	4.39	5.20	0.874		
		20:49	0.73	86.99	36.66	50.33	0.881		
		20:57	0.65	14.63	5.76	8.87	0.887		
		21:06	0.77	86.82	37.69	49.13	0.893		
		21:15	0.72	30.70	12.88	17.82	0.900		
		21:39	0.76	39.29	16.97	22.32	0.917		
		21:46	0.79	36.76	16.22	20.54	0.922		
		22:00	0.77	51.66	22.53	29.13	0.932		
		22:09	0.75	103.01	44.03	58.98	0.938		
		22:23	0.71	46.41	19.28	27.13	0.948		
		22:39	0.67	41.91	16.74	25.17	0.959		
		22:53 RO	0.58	1.14	0.42	0.72	0.969		J
		23:06	0.67	12.53	5.01	7.52	0.978		
		23:13 RO	0.59	2.72	1.01	1.71	0.983		
		23:18	0.66	2.78	1.11	1.67	0.987		
		23:31	0.76	21.13	9.15	11.98	0.996		
		23:38	0.74	171.75	73.32	98.43	1.001	2378-TCDF	AN
		23:51	0.77	44.68	19.40	25.28	1.010		
		23:57 RO	0.61	9.41	3.55	5.86	1.014		
		24:16	0.73	220.04	92.69	127.35	1.028		
		24:28	0.79	3.17	1.40	1.77	1.036		
		24:38 RO	0.47	6.66	2.13	4.53	1.043		
	DC SN	24:44 RO	0.05	0.61			1.047		
		25:00	0.76	2.47	1.07	1.40	1.059		
		25:08 RO	0.64	13.62	5.34	8.28	1.064		
		25:24 RO	0.64	5.09	1.98	3.11	1.076		
		25:36	0.65	14.03	5.53	8.50	1.084		
		25:51 RO	0.45	0.29	0.09	0.20	1.095		J
		25:56 RO	0.37	2.76	0.75	2.01	1.098		
	DC WH	26:12	0.74	77.28			1.109		
	DC WH	26:24 RO	0.47	0.75			1.118		
	DC WH	26:29 RO	0.41	1.86			1.121		
304-306		37 Peaks		1,240.27					

13C12-TCDF 0.65-0.89 0.958-1.042
316-318 DC NL Height 0.19 0.08 0.11

Compound/

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

DC	WL	18:53	RO	1.08	0.27			0.800		
DC	WL	19:12	RO	0.60	4.12			0.813		
DC	WL	19:22		0.77	0.62			0.820		
DC	WL	19:31	RO	0.60	0.91			0.826		
DC	WL	19:41	RO	3.44	0.40			0.833		
DC	WL	19:54	RO	0.49	0.79			0.843		
DC	WL	20:06		0.83	0.22			0.851		
DC	WL	20:14		0.79	1.34			0.857		
DC	WL	20:33	RO	2.75	0.30			0.870		
DC	WL	20:44	RO	1.36	0.33			0.878		
DC	WL	20:55		0.83	0.22			0.886		
DC	WL	21:36	RO	1.41	0.53			0.915		
DC	WL	21:39	RO	0.42	0.27			0.917		
DC	WL	21:43	RO	0.42	0.34			0.920		
DC	WL	22:08	RO	0.61	2.63			0.937		
DC	WL	22:28		0.89	1.25			0.951		
DC	WL	22:32	RO	0.93	0.77			0.954		
		22:44	RO	0.37	1.73	0.47	1.26	0.963		
DC	SN	22:56	RO	0.95	0.39			0.971		
DC	SN	22:59	RO	1.62	0.55			0.973		
		23:24		0.70	0.95	0.39	0.56	0.991		
		23:37		0.76	278.51	120.01	158.50	1.000	13C12-2378-TCDF	ISO
			Height		70.04	30.03	40.01			
		23:49	RO	1.25	0.99	0.55	0.44	1.008		
		24:01	RO	0.29	1.42	0.32	1.10	1.017		
DC	SN	24:04	RO	2.24	0.55			1.019		
		24:16		0.69	7.18	2.92	4.26	1.028		
DC	SN	24:27	RO	1.91	0.32			1.035		
		24:37	RO	0.14	0.81	0.10	0.71	1.042		
DC	WH	25:13		0.89	0.51			1.068		
DC	WH	25:21	RO	1.30	0.23			1.073		
DC	WH	25:24	RO	0.35	0.74			1.076		
DC	WH	25:28	RO	0.63	0.26			1.078		
DC	WH	25:33	RO	3.25	0.68			1.082		
DC	WH	25:51	RO	0.91	1.64			1.095		
DC	WH	26:12	RO	2.64	0.40			1.109		
316-318			7 Peaks		291.59					

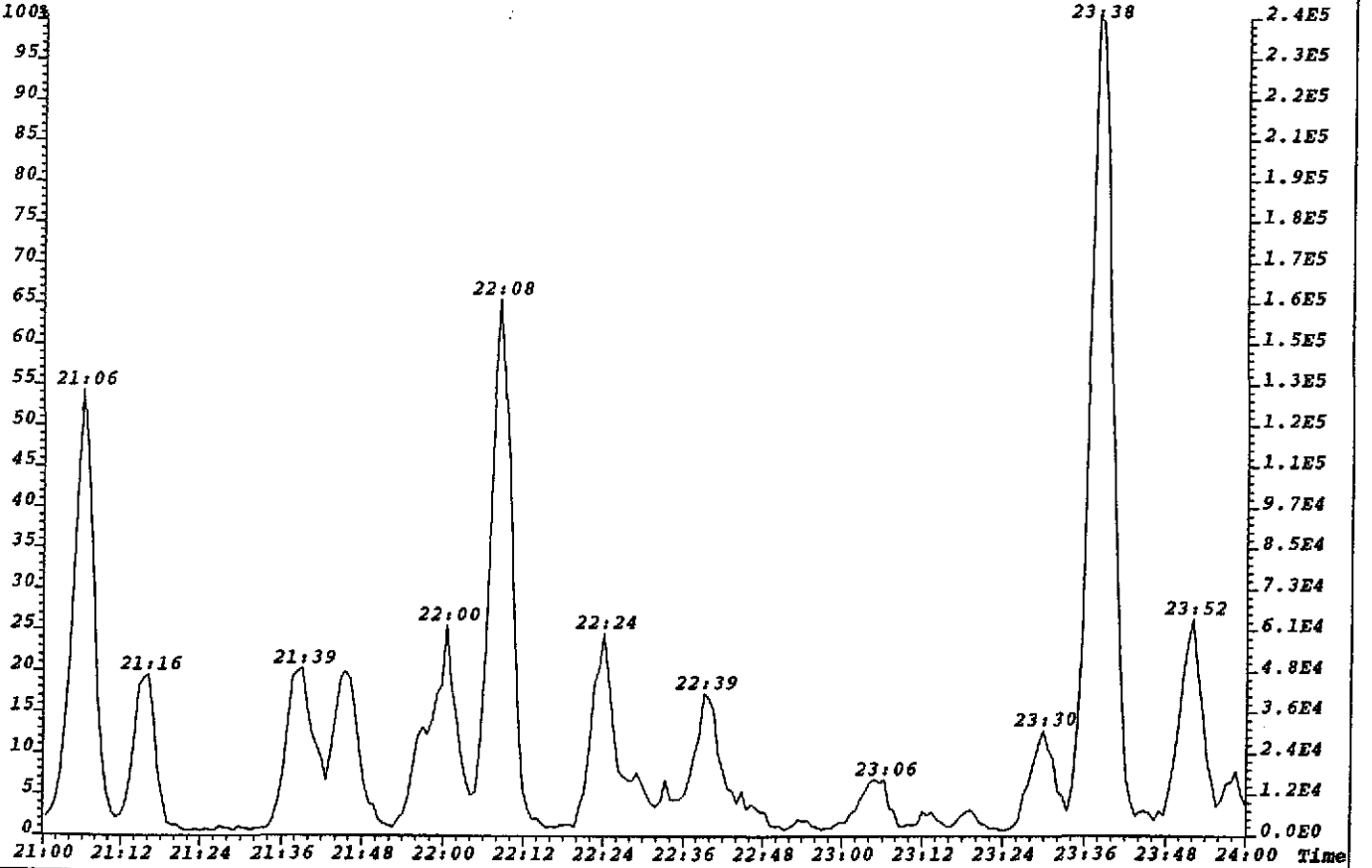
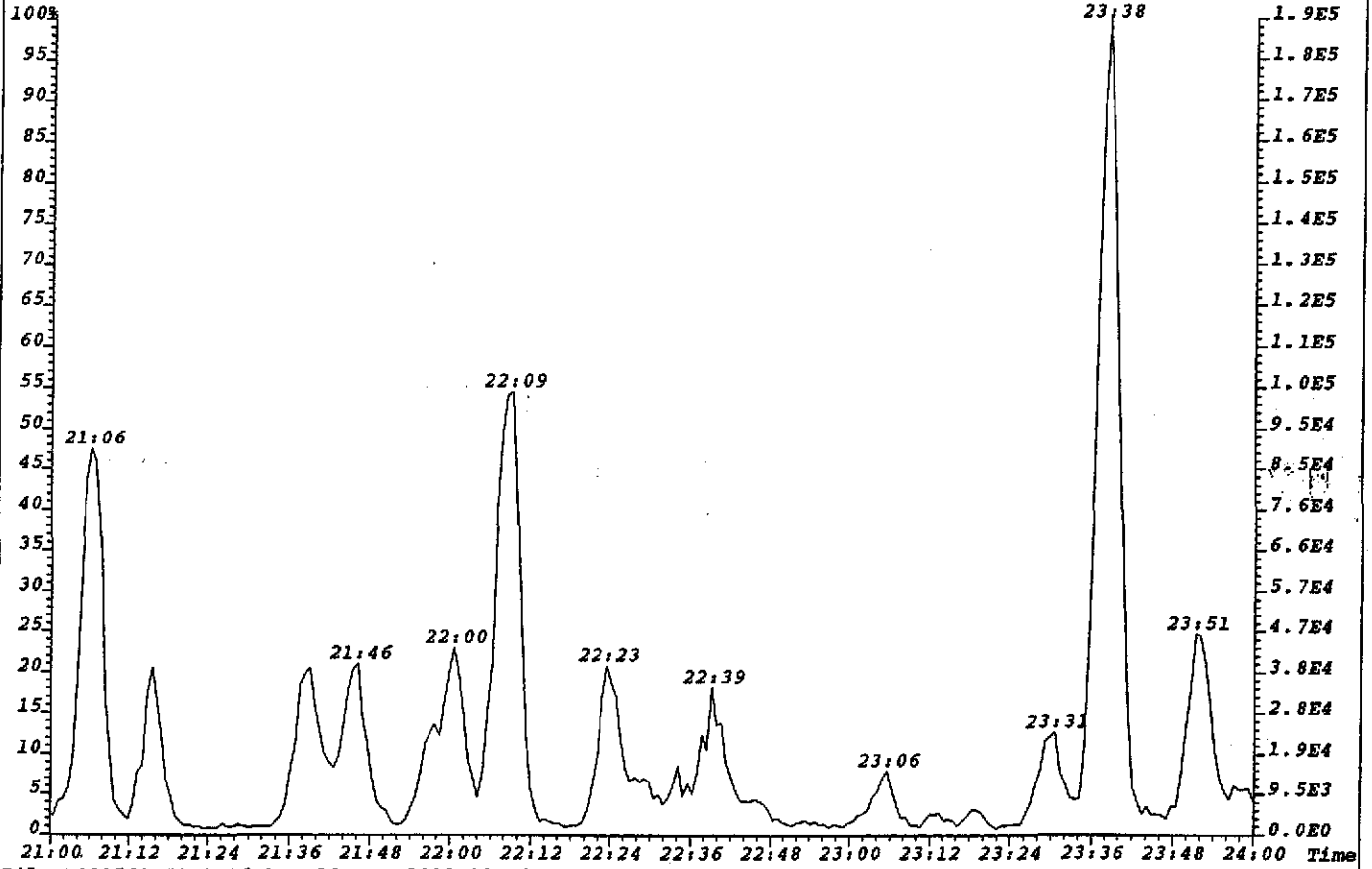
----- Above: TCDF / TCDD Follows -----

13C12-TCDD		0.65-0.89		0.910-1.090	
332-334	DC NL	Height	0.29	0.21	0.08
	DC WL	19:53 RO	2.79		0.898
	DC SN	21:00 RO	2.38		0.948
	DC SN	21:12	0.80		0.957
	DC SN	21:28 RO	0.94		0.969
	DC SN	21:37 RO	1.86		0.976
		22:09	0.82	200.76	90.65
			Height	52.07	23.76
		22:27	0.81	346.26	155.06
	DC SN	22:35 RO	1.70		1.014
	DC SN	22:53 RO	4.80		1.020
					1.033
					1.000
					13C12-2378-TCDD
					IS1
					1.014
					13C12-1234-TCDD
					RS1

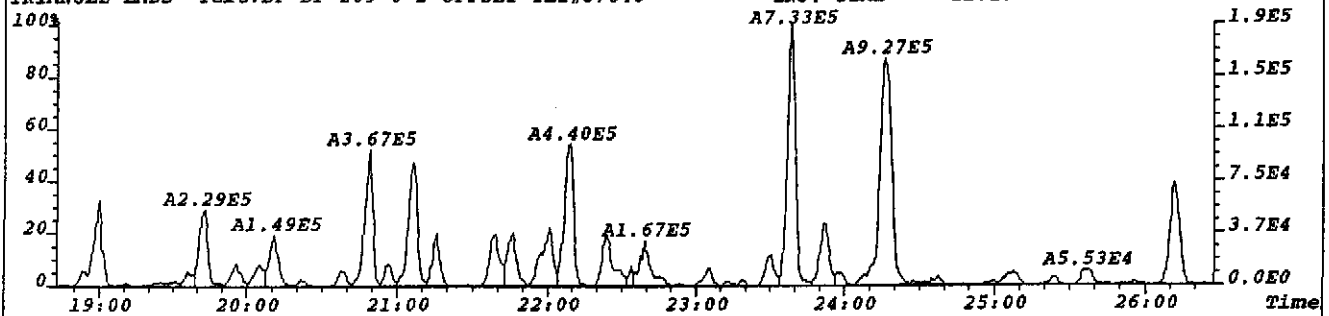
Compound/ M_Z	QC	Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
	DC		SN		22:55	RO	0.62		0.47					1.035
	DC		SN		24:07	RO	3.80		0.72					1.089
	DC		WH		24:14	RO	1.61		1.07					1.094
	DC		WH		24:19	RO	3.56		0.41					1.098
	DC		WH		24:25	RO	1.76		0.91					1.102
	DC		WH		24:29	RO	1.06		0.35					1.105
	DC		WH		24:34		0.79		0.61					1.109
	DC		WH		24:43	RO	3.50		0.36					1.116
	DC		WH		25:29	RO	3.30		0.43					1.150
332-334					2 Peaks				547.02					

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

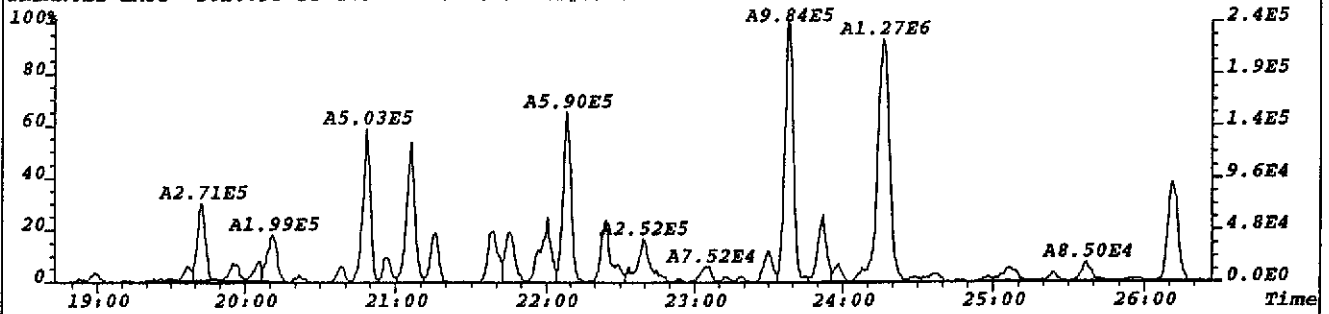
*** End of Report ***



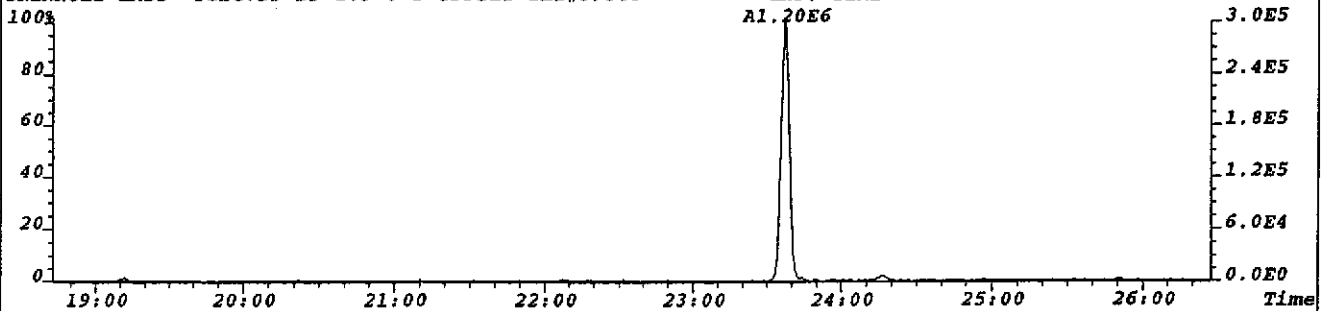
File:P022560 #1-3026 Acq:18-JUL-2002 12:13:31 EI+ Voltage SIR 70P Noise:99
303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,396.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-209 0-2'OFFSET TLI#57840 INJ. TIME = 12:13



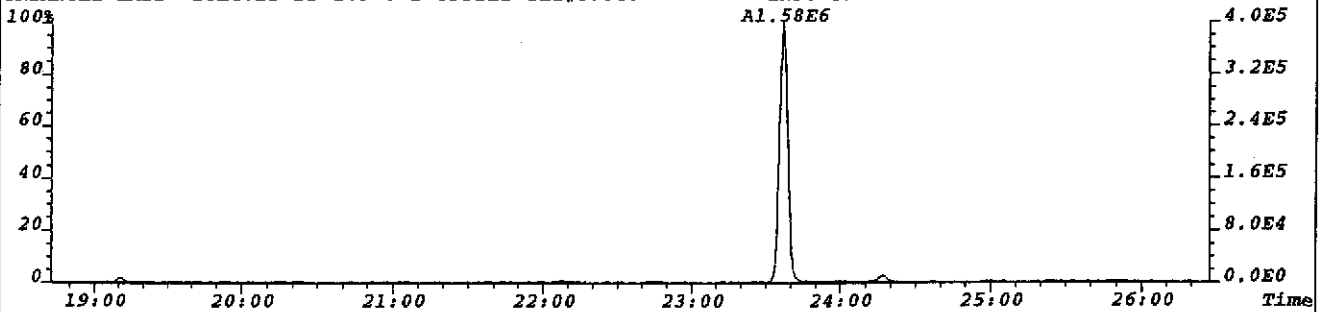
File:P022560 #1-3026 Acq:18-JUL-2002 12:13:31 EI+ Voltage SIR 70P Noise:128
305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,512.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-209 0-2'OFFSET TLI#57840 INJ. TIME = 12:13



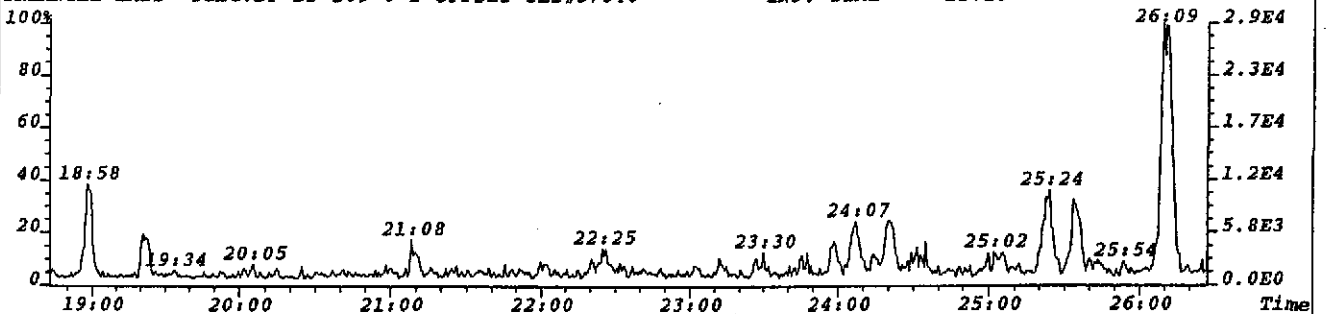
File:P022560 #1-3026 Acq:18-JUL-2002 12:13:31 EI+ Voltage SIR 70P Noise:96
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,384.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-209 0-2'OFFSET TLI#57840 INJ. TIME = 12:13



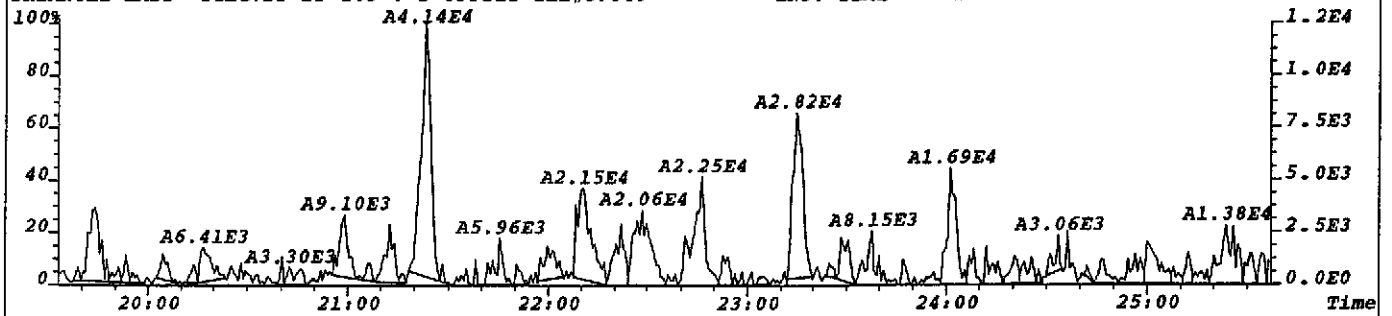
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317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,540.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-209 0-2'OFFSET TLI#57840 INJ. TIME = 12:13



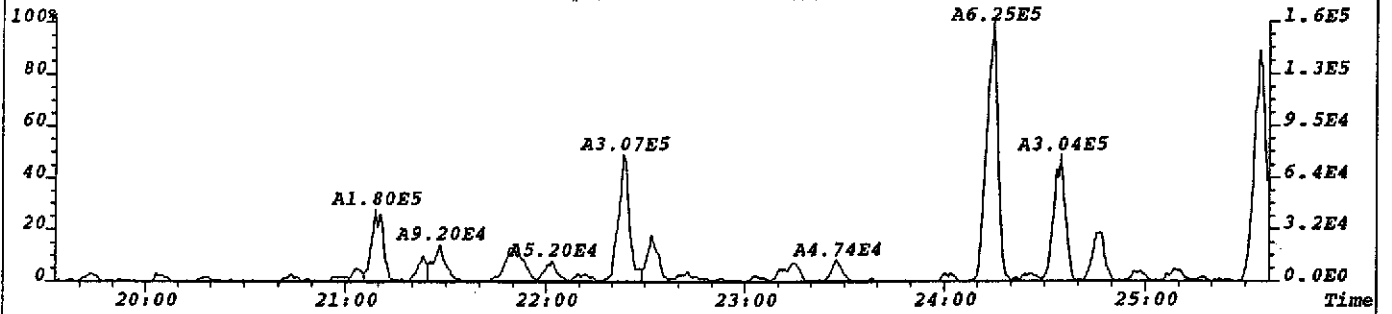
File:P022560 #1-3026 Acq:18-JUL-2002 12:13:31 EI+ Voltage SIR 70P
375.8364 Exp:DB225
TRIANGLE LABS Text:DF-DP-209 0-2'OFFSET TLI#57840 INJ. TIME = 12:13



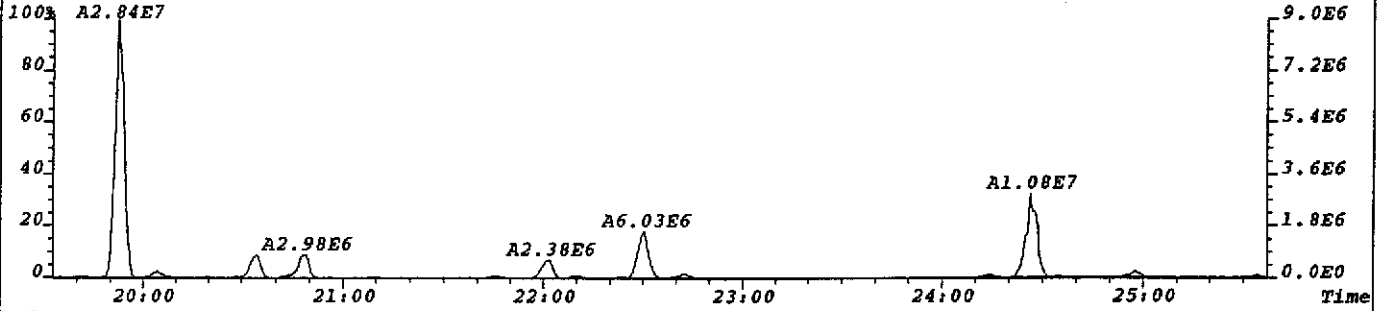
File:P022560 #1-3026 Acq:18-JUL-2002 12:13:31 EI+ Voltage SIR 70P Noise:127
319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,508.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-209 0-2'OFFSET TLI#57840 INJ. TIME - 12:13



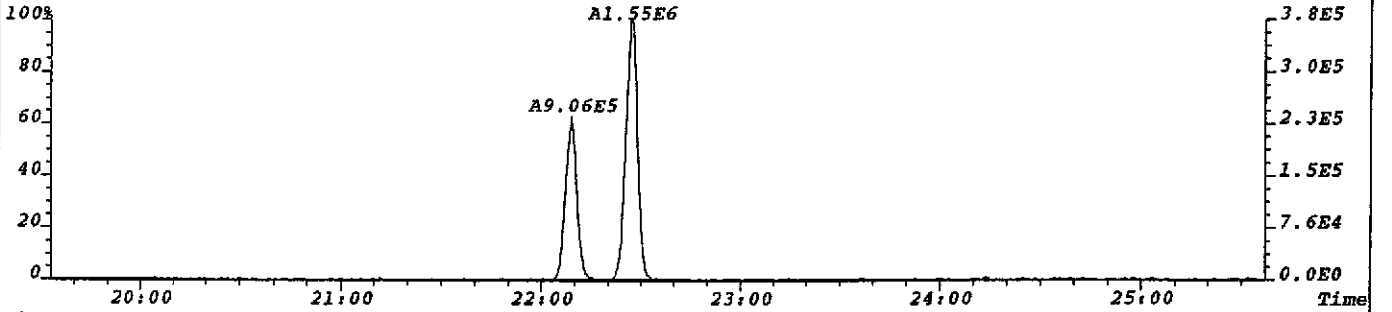
File:P022560 #1-3026 Acq:18-JUL-2002 12:13:31 EI+ Voltage SIR 70P Noise:105
321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,420.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-209 0-2'OFFSET TLI#57840 INJ. TIME - 12:13



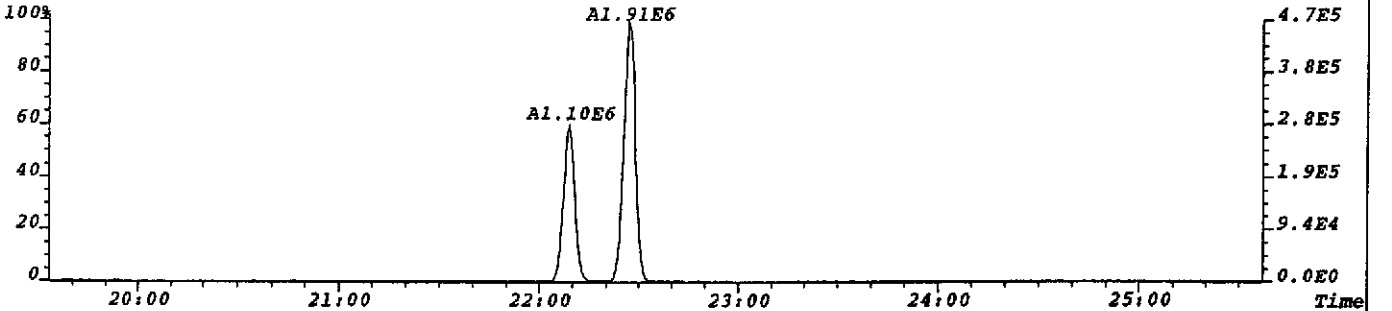
File:P022560 #1-3026 Acq:18-JUL-2002 12:13:31 EI+ Voltage SIR 70P Noise:84
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,336.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-209 0-2'OFFSET TLI#57840 INJ. TIME - 12:13

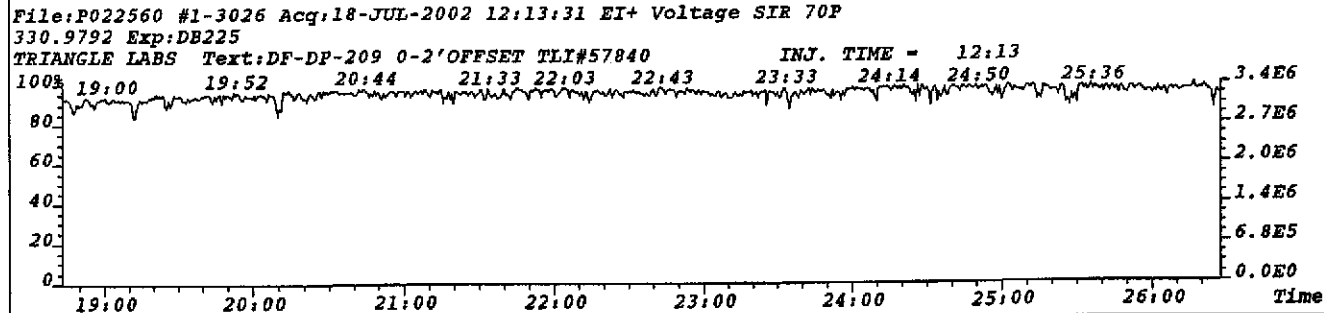
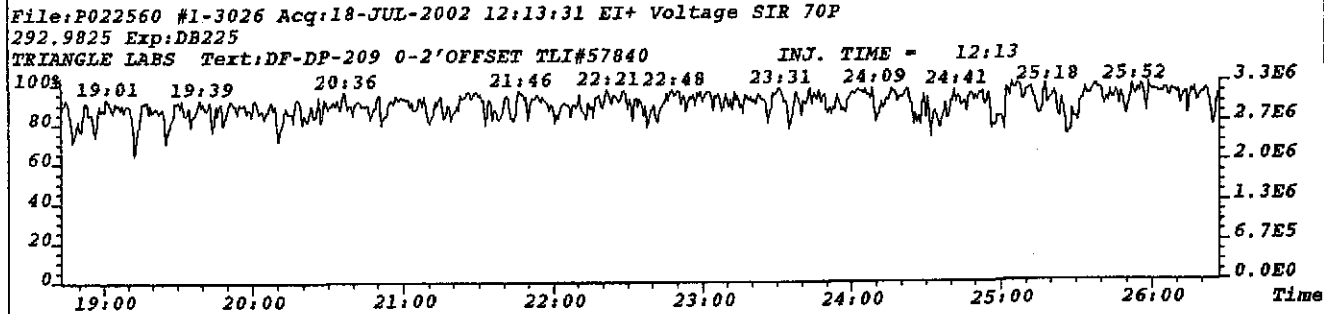
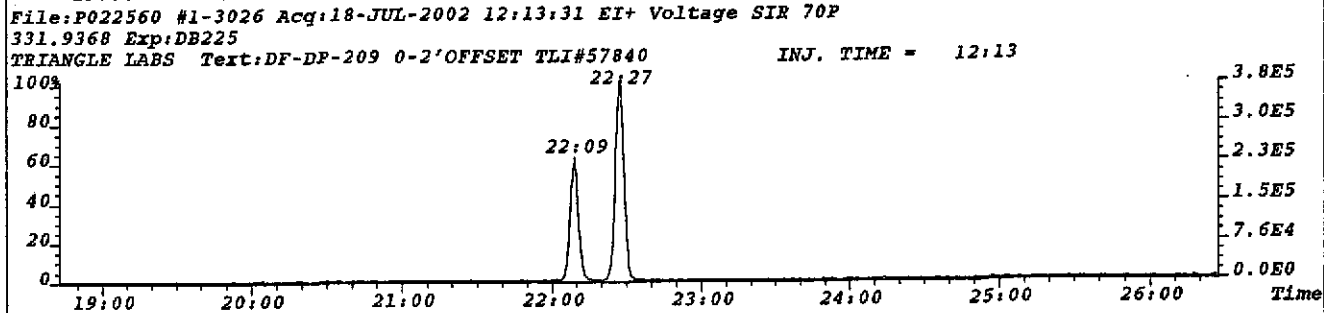
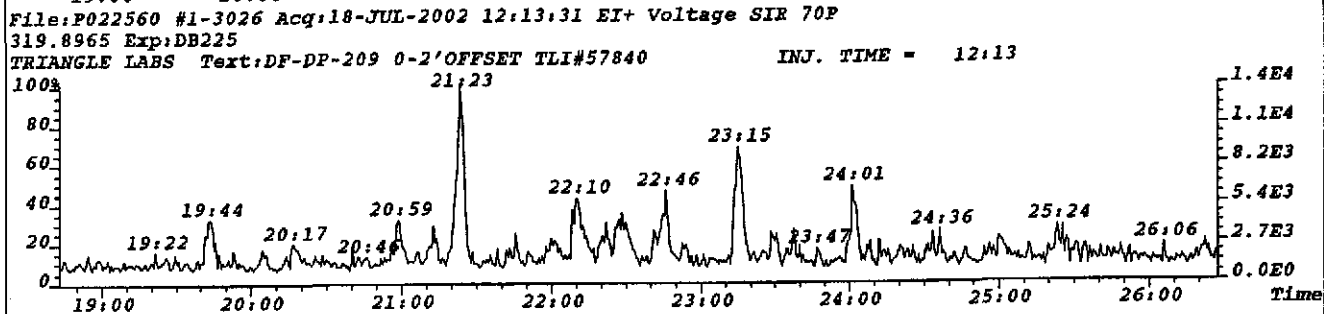
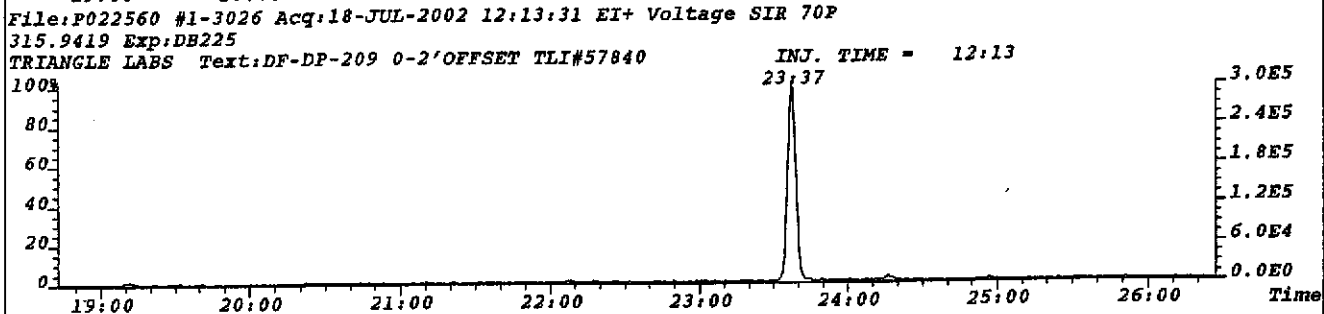
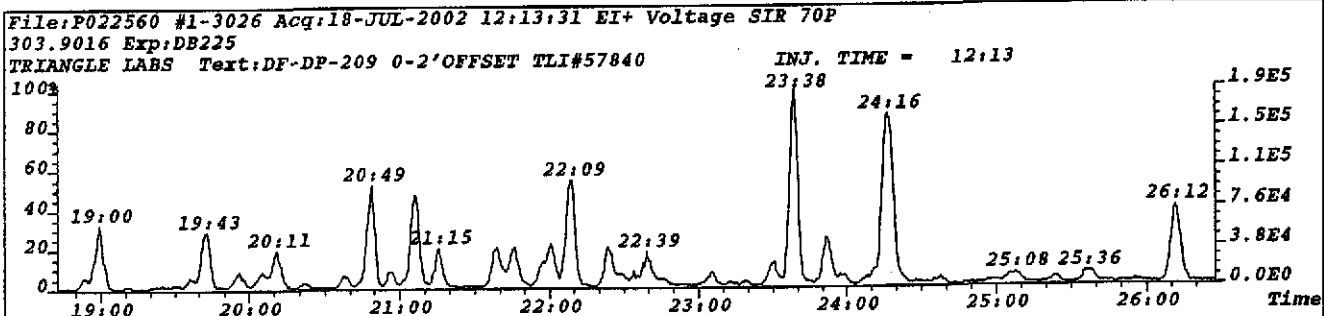


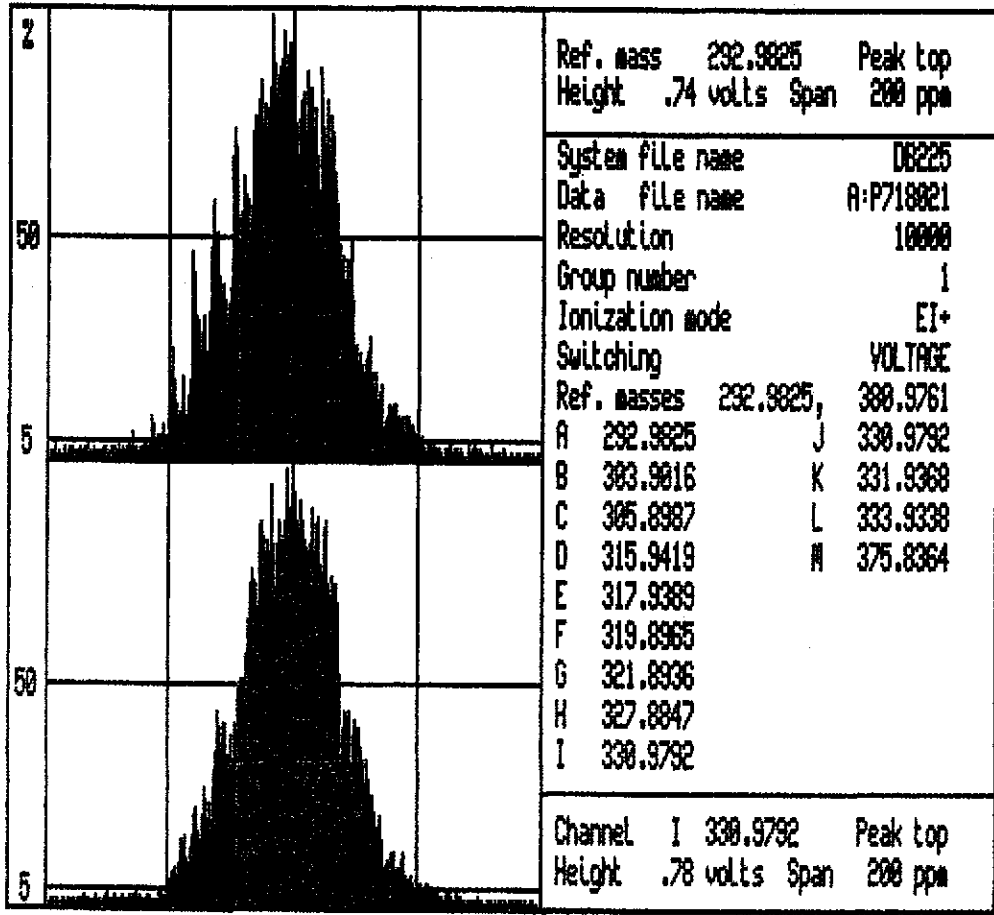
File:P022560 #1-3026 Acq:18-JUL-2002 12:13:31 EI+ Voltage SIR 70P Noise:260
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1040.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-209 0-2'OFFSET TLI#57840 INJ. TIME - 12:13



File:P022560 #1-3026 Acq:18-JUL-2002 12:13:31 EI+ Voltage SIR 70P Noise:100
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,400.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-209 0-2'OFFSET TLI#57840 INJ. TIME - 12:13







TLI Project: 57840
 Client Sample: DF-DP-676 0-2'

Toxicity Equivalents Report
 Analysis File: W108213

Client Project:	Dioxin/Furan Analysis				
Sample Matrix:	SOLID	Date Received:	07/11/02	Spike File:	SP161B2S
TLI ID:	330-27-11	Date Extracted:	07/12/02	ICal:	WF5614B
		Date Analyzed:	07/18/02	ConCal:	WB21081
Sample Size:	11.300 g	Dilution Factor:	1	% Moisture:	11.1
Dry Weight:	10.046 g	Blank File:	W108202	% Lipid:	n/a
GC Column:	DB-5	Analyst:	JLD	% Solids:	88.9

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	{0.3}	x	1	=	0.3
1,2,3,7,8-PeCDD	{2.8}	x	0.5	=	1.4
1,2,3,4,7,8-HxCDD	2.2	x	0.1	=	0.22
1,2,3,6,7,8-HxCDD	7.1	x	0.1	=	0.71
1,2,3,7,8,9-HxCDD	4.8	x	0.1	=	0.48
1,2,3,4,6,7,8-HpCDD	49.6	x	0.01	=	0.496
1,2,3,4,6,7,8,9-OCDD	2020	x	0.001	=	2.020
TOTAL PCDD					5.6
2,3,7,8-TCDF	125	x	0.1	=	12.5
1,2,3,7,8-PeCDF	137	x	0.05	=	6.85
2,3,4,7,8-PeCDF	124	x	0.5	=	62.0
1,2,3,4,7,8-HxCDF	492	x	0.1	=	49.2
1,2,3,6,7,8-HxCDF	58.3	x	0.1	=	5.83
2,3,4,6,7,8-HxCDF	44.7	x	0.1	=	4.47
1,2,3,7,8,9-HxCDF	{0.5}	x	0.1	=	0.05
1,2,3,4,6,7,8-HpCDF	453	x	0.01	=	4.53
1,2,3,4,7,8,9-HpCDF	70.2	x	0.01	=	0.702
1,2,3,4,6,7,8,9-OCDF	402	x	0.001	=	0.402
TOTAL PCDF					146.5

Total EPA TEFs, 1989a: 152.2 pg/g

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

Data Review By:

QEM 7/18/02

Calculated Noise Height: 2.71

Page No. 1
07/18/2002Listing of W108213B.dbf
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			0.877-1.070		
304-306		DC	NL	Height	11.80	7.08	4.72
D	D	WL	23:20	0.69	1,402.11		0.881
			23:56	0.76	541.41	233.22	0.904
			24:10	0.88	545.44	255.87	0.913
			24:31	0.76	2,011.92	871.72	0.926
			24:50	0.73	7,489.11	3,166.02	0.938
			25:13	0.73	5,154.45	2,178.51	0.952
			25:30	0.75	3,766.78	1,615.81	0.963
			25:48	0.73	3,469.73	1,468.24	0.974
			26:07	0.75	3,466.35	1,487.75	0.986
			26:20	0.74	1,073.27	455.00	0.994
			26:31	0.74	15,386.20	6,564.12	1.001
			26:56	0.73	5,338.00	2,252.75	1.017
			27:08	0.80	704.46	312.61	1.025
			27:28	0.74	511.72	217.39	1.037
			27:42	0.75	2,196.05	939.58	1.046
			28:06	RO 1.60	117.11	71.99	1.061
			28:13	RO 1.01	91.74	46.21	1.065
	DC	WH	28:23	RO 1.07	162.31		1.072
	DC	WH	28:30	RO 1.16	119.70		1.076
	DC	WH	28:43	0.88	60.91		1.084
304-306			16 Peaks		51,863.74		

13C12-TCDF		0.65-0.89			0.944-1.133		
316-318		DC	NL	Height	9.41	4.74	4.67
			25:47	0.72	86.45	36.23	0.974
			26:06	0.69	177.64	72.75	0.986
			26:29	0.75	19,985.19	8,549.19	1.000
				Height	5,834.43	2,464.42	3,370.01
			26:50	0.70	430.37	176.56	1.013
			27:08	0.75	55.69	23.89	1.025
			27:37	RO 1.06	88.24	45.50	1.043
316-318			6 Peaks		20,823.58		

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

TCDD		0.65-0.89			0.903-1.042		
320-322		DC	NL	Height	5.14	2.16	2.98
D	D	SN	24:43	0.66	42.38		0.909
	DC	SN	24:54	RO 0.29	12.62		0.915
	D	SN	25:05	RO 0.48	31.63		0.922
	D	SN	25:15	RO 0.40	22.13		0.928
	D	SN	25:24	RO 0.13	96.37		0.934
			25:35	RO 0.15	90.13	11.62	0.941
			25:48	RO 0.19	151.08	23.78	0.949
			26:02	RO 0.58	118.83	43.54	0.957

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	26:41	RO	1.05	24.82			0.981		
	DC	SN	26:51	RO	0.01	307.83			0.987		
N			27:08	RO	0.40	259.25	74.39	184.86	0.998		
D	D	SN	27:21	RO	1.98	34.05			1.006		
D	D	SN	27:32	RO	0.05	450.64			1.012		
			27:48	RO	0.92	325.47	155.86	169.61	1.022		
D	D	SN	27:59	RO	0.01	2,040.24			1.029		
	DC	WH	28:25		0.87	289.05			1.045		
	DC	WH	28:31	RO	0.37	111.07			1.048		
	DC	WH	28:43	RO	0.12	316.78			1.056		
320-322			5 Peaks			944.76					

37Cl-TCDD									0.926-1.074		
328	DC	NL			Height	7.23	7.23				
			25:35			1,599.22	1,599.22		0.941		
			25:52			23,732.00	23,732.00		0.951		
			26:19			1,050.52	1,050.52		0.968		
			26:28			751.55	751.55		0.973		
			27:08			4,959.72	4,959.72		0.998		
AN			27:13			1,710.00	1,710.00		1.001	37Cl-TCDD	CLS
			27:36			436,517.00	436,517.00		1.015		
			27:59			1,454.92	1,454.92		1.029		
			28:13			634.30	634.30		1.037		
			28:31			3,251.25	3,251.25		1.048		
328			10 Peaks			475,660.48					

13Cl12-TCDD					0.65-0.89				0.920-1.067		
332-334	DC	NL			Height	42.35	39.69	2.66			
			27:01		0.80	18,237.55	8,078.35	10,159.20	0.993	13Cl12-1234-TCDD	RS1
			27:12		0.78	16,549.56	7,272.23	9,277.33	1.000	13Cl12-2378-TCDD	IS1
					Height	4,877.06	2,147.68	2,729.38			
	DC	SN	28:13	RO	13.93	478.97			1.037		
332-334			2 Peaks			34,787.11					

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

PeCDF					1.32-1.78				0.909-1.036		
340-342	DC	NL			Height	6.49	3.69	2.80			
	DC	WL	28:13		1.47	189.22			0.909		
			28:21		1.47	3,304.24	1,966.28	1,337.96	0.913		
			28:30		1.42	3,407.69	2,001.25	1,406.44	0.918		
			28:43		1.38	3,820.63	2,217.70	1,602.93	0.925		
			29:08		1.46	1,139.71	676.67	463.04	0.938		
			29:33		1.49	40,293.10	24,124.60	16,168.50	0.952		
			29:44		1.49	20,306.97	12,154.80	8,152.17	0.958		
			29:54		1.48	4,698.46	2,804.27	1,894.19	0.963		
			30:06		1.37	2,065.84	1,194.73	871.11	0.969		
A			30:17		1.49	11,290.00	6,760.00	4,530.00	0.975		
M			30:23		1.50	16,360.00	9,820.00	6,540.00	1.001	12378-PeCDF	AN
			30:32		1.48	2,069.39	1,234.96	834.43	0.983		
			30:40		1.48	3,173.77	1,892.03	1,281.74	0.988		
			31:04		1.48	13,020.98	7,767.74	5,253.24	1.001	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.
				31:12		1.45	4,715.88	2,788.89	1,926.99	1.005			
				31:25	RO	1.84	258.83	167.72	91.11	1.012			
				31:41		1.64	530.38	329.51	200.87	1.020			J
				31:48		1.45	288.53	170.87	117.66	1.024			J
				31:54		1.60	275.21	169.46	105.75	1.027			J
				32:00		1.63	269.03	166.73	102.30	1.031			J
				32:10		1.67	122.48	76.64	45.84	1.036			J
	DC	WH		32:28	RO	1.98	361.41			1.046			
340-342				20 Peaks			131,411.12						

13C12-PeCDF		1.32-1.78		0.806-1.128	
352-354	DC	NL	Height	6.00	2.78
				3.22	
			29:32	RO 0.71	157.72
			29:44	RO 0.26	318.75
			29:59	RO 0.15	128.78
			30:05	RO 0.76	72.30
			30:22	1.46	19,615.93
				Height	6,100.94
			30:39	RO 0.56	335.41
			31:03	1.45	17,652.50
				Height	5,662.58
			31:16	1.37	31.18
			31:25	RO 0.73	98.48
			31:41	RO 0.53	148.81
			31:48	RO 0.52	75.13
			32:00	RO 1.29	382.43
			32:10	RO 1.27	55.21
			32:21	RO 3.33	54.41
352-354			14 Peaks		39,127.04

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

PeCDD		1.32-1.78		0.939-1.021	
356-358	DC	NL	Height	11.17	2.83
				8.34	
	D	WL	29:29	1.52	3,808.66
	D	SN	29:38	RO 0.01	17,540.20
			29:52	RO 0.05	1,579.65
					79.46
	D	SN	30:01	RO 0.04	326.61
			30:20	RO 0.05	2,860.19
			30:28	1.40	685.79
			30:54	RO 0.80	532.54
					236.49
	M		31:24	RO 1.09	240.00
			31:34	RO 0.02	3,622.54
			31:54	RO 0.52	2,040.33
					696.20
	DC	WH	32:08	RO 0.52	2,323.32
	DC	WH	32:14	RO 0.32	246.43
356-358			7 Peaks		11,561.04

13C12-PeCDD		1.32-1.78		0.734-1.053	
368-370	DC	NL	Height	11.80	9.38
				2.42	
	DC	SN	29:37	RO 4.98	54.29
	DC	SN	29:48	RO 1.06	47.55
					0.944
					0.950

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.

RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
30:01	RO	2.38	131.90	92.90	39.00	0.957			
30:05	RO	2.35	203.81	142.89	60.92	0.959			
30:28		1.71	170.43	107.50	62.93	0.971			
30:48	RO	3.04	94.95	71.45	23.50	0.982			
31:13	RO	2.80	133.53	98.35	35.18	0.995			
31:22		1.53	13,464.20	8,145.31	5,318.89	1.000	13C12-PeCDD 123	IS4	
		Height	4,446.59	2,694.62	1,751.97				
31:42	RO	2.78	88.44	65.03	23.41	1.011			
31:56	RO	1.28	92.41	51.86	40.55	1.018			
32:02		1.65	604.40	376.36	228.04	1.021			
368-370		9 Peaks	14,984.07						

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

HxCDF	DC	NL	Height	1.05-1.43	24.83	0.929-1.007	AN	J
374-376				45.23	24.83	20.40		
			32:51	1.22	1,199.46	660.08	539.38	0.934
			32:59	1.28	12,035.34	6,745.16	5,290.18	0.937
			33:09	1.27	680.61	380.94	299.67	0.942
			33:17	1.13	401.61	213.20	188.41	0.946
			33:27	1.24	6,183.50	3,426.86	2,756.64	0.951
	DC	SN	33:40	1.35	106.73			0.957
			33:48	1.26	29,477.80	16,425.40	13,052.40	1.000 123478-HxCDF AN
			33:55	1.30	3,721.93	2,101.96	1,619.97	1.000 123678-HxCDF AN
			34:01	1.19	137.49	74.57	62.92	0.967
	DC	SN	34:06	RO 0.24	57.44			0.969
			34:11	1.11	669.68	352.45	317.23	0.972
			34:24	1.22	2,410.09	1,325.13	1,084.96	1.000 234678-HxCDF AN
			35:16	1.29	483.74	272.73	211.01	1.002
374-376			11 Peaks		57,401.25			

HxCDF	DC	NL	Height	0.43-0.59	10.18	0.879-1.106	IS5	IS6	IS7	IS8
384-386				21.85	10.18	11.67				
			32:46	RO 0.61	70.11	26.58	43.53	0.931		
			33:48	0.50	9,602.94	3,215.66	6,387.28	1.000 13C12-HxCDF 478	IS5	
				Height	3,360.17	1,120.64	2,239.53			
			33:54	0.52	9,843.24	3,350.22	6,493.02	1.000 13C12-HxCDF 678	IS6	
				Height	3,413.73	1,150.50	2,263.23			
			34:24	0.52	8,915.82	3,054.80	5,861.02	1.000 13C12-HxCDF 234	IS7	
				Height	3,021.60	1,032.38	1,989.22			
	DC	SN	34:32	0.57	36.35			0.982		
			35:11	0.53	7,362.82	2,548.61	4,814.21	1.000 13C12-HxCDF 789	IS8	
				Height	2,309.24	765.41	1,543.83			
			35:31	RO 0.95	85.88	41.75	44.13	1.009		
384-386			6 Peaks		35,880.81					

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

HxCDD	DC	NL	Height	1.05-1.43	15.27	0.959-1.013		J
390-392				29.44	15.27	14.17		
			33:20	RO 0.87	2,260.00	1,050.00	1,210.00	0.964
			33:46	1.08	134.75	69.88	64.87	0.976
M								

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.

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.
					33:59	RO	0.71	2,035.34	847.81	1,187.53	0.983			
					34:30		1.28	93.51	52.44	41.07	1.000	123478-HxCDD	AN	J
					34:36		1.19	282.93	153.53	129.40	1.000	123678-HxCDD	AN	
A					34:50	RO	1.54	63.60	38.60	25.00	1.007			
M					34:55		1.25	199.80	111.00	88.80	1.010	123789-HxCDD	AN	J
		DC	WH		35:08	RO	0.92	402.70			1.016			
		DC	WH		35:22	RO	0.75	445.17			1.023			
390-392					7 Peaks			5,069.93						
13C12-HxCDD					1.05-1.43						0.983-1.041			
402-404		DC	NL		Height			78.61	49.18	29.43				
		DC	WL		33:16		1.09	862.75			0.964			
		DC	WL		33:38		1.13	381.38			0.975			
		DC	SN		33:57	RO	2.71	353.35			0.984			
					34:30		1.23	7,147.90	3,941.40	3,206.50	1.000	13C12-HxCDD 478	IS9	
					Height			2,471.67	1,359.94	1,111.73				
					34:35		1.18	7,265.13	3,929.15	3,335.98	1.000	13C12-HxCDD 678	IS10	
					Height			2,471.24	1,317.73	1,153.51				
					34:54		1.18	8,640.55	4,676.83	3,963.72	1.012	13C12-HxCDD 789	RS2	
402-404					3 Peaks			23,053.58						

----- 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						0.955-1.004			
408-410		DC	NL		Height			17.00	8.12	8.88				
					36:52		1.06	16,882.18	8,701.91	8,180.27	1.000	1234678-HpCDF	AN	
			X		37:08	RO	0.85	485.53	222.71	262.82	0.966			
					37:17		1.08	10,114.39	5,249.39	4,865.00	0.970			
D		D	NH		37:34	RO	0.65	68.19			0.977			
					38:26		1.00	1,908.67	952.10	956.57	1.000	1234789-HpCDF	AN	
408-410					4 Peaks			29,390.77						

Compound/	M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
13C12-HpCDF					0.37-0.51						0.856-1.143			
418-420		DC	NL		Height			11.94	6.18	5.76				
					36:51		0.43	4,973.13	1,503.71	3,469.42	1.000	13C12-HpCDF 678	IS11	
					Height			1,464.76	440.69	1,024.07				
		DC	SN		37:03		0.50	13.98			0.964			
		DC	SN		37:18	RO	0.74	52.43			0.971			
					38:26		0.44	3,636.62	1,105.60	2,531.02	1.000	13C12-HpCDF 789	IS12	
					Height			922.20	277.99	644.21				
					38:42	RO	2.19	45.18	31.02	14.16	1.007			
418-420					3 Peaks			8,654.93						

----- Above: HpCDF / HpCDD 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.
HpCDD					0.88-1.20						0.975-1.005			
424-426		DC	NL		Height			9.93	5.83	4.10				
					37:09		1.01	1,427.47	716.98	710.49	0.980			
		DC	SN		37:47	RO	2.06	30.28			0.996			
					37:56		1.09	1,142.53	595.03	547.50	1.000	1234678-HpCDD	AN	
424-426					2 Peaks			2,570.00						

Compound/

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

13C12-HpCDD		0.88-1.20			0.868-1.079		
436-438	DC NL	Height	49.00	32.46	16.54		
	DC SN 36:57 RO	3.61	485.10			0.975	
	DC SN 37:08	1.12	197.91			0.979	
		37:55	1.02	4,544.61	2,298.12	2,246.49	1.000 13C12-HpCDD 678 IS13
		Height	1,196.01	605.18	590.83		
		38:06 RO	2.07	333.15	224.75	108.40	1.005
436-438	2 Peaks		4,877.76				

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

OCDF		0.76-1.02			0.952-1.048		
442-444	DC NL	Height	4.48	2.24	2.24		
	DC WL 36:34 RO	1.28	34.33			0.878	
	DC WL 36:46	0.94	3.61			0.883	
	DC WL 37:04 RO	0.52	8.59			0.890	
	DC WL 37:11 RO	0.66	27.67			0.893	
	DC WL 37:27 RO	0.61	18.19			0.899	
	DC WL 37:35 RO	0.45	35.61			0.902	
	DC SN 39:40 RO	1.66	14.46			0.952	
	DC SN 39:55 RO	1.46	18.23			0.958	
	DC SN 40:08 RO	0.30	7.50			0.964	
	DC SN 40:25 RO	0.44	12.62			0.970	
		40:57 RO	2.93	26.41	19.69	6.72	0.983
	DC SN 41:17 RO	0.70	13.58			0.991	
		41:52	0.87	8,306.19	3,856.10	4,450.09	1.005 OCDF AN
	DC SN 43:09 RO	0.26	9.06			1.036	
	DC SN 43:36 RO	0.72	9.45			1.047	
	DC WH 43:40 RO	0.51	6.10			1.048	
442-444	2 Peaks		8,332.60				

OCDD		0.76-1.02			0.952-1.048		
458-460	DC NL	Height	3.18	1.56	1.62		
		41:39	0.83	33,072.50	15,015.20	18,057.30	1.000 OCDD AN
458-460	1 Peak		33,072.50				

13C12-OCDD		0.76-1.02			0.996-1.004		
470-472	DC NL	Height	43.24	28.18	15.06		
		41:39	0.90	6,199.08	2,931.43	3,267.65	1.000 13C12-OCDD IS14
		Height	1,368.54	644.64	723.90		
	DC WH 42:02 RO	1.07	141.96			1.009	
470-472	1 Peak		6,199.08				

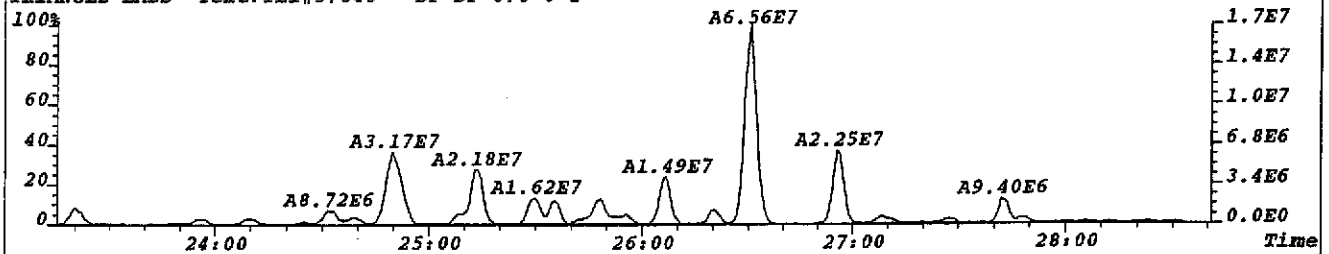
Compound/

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

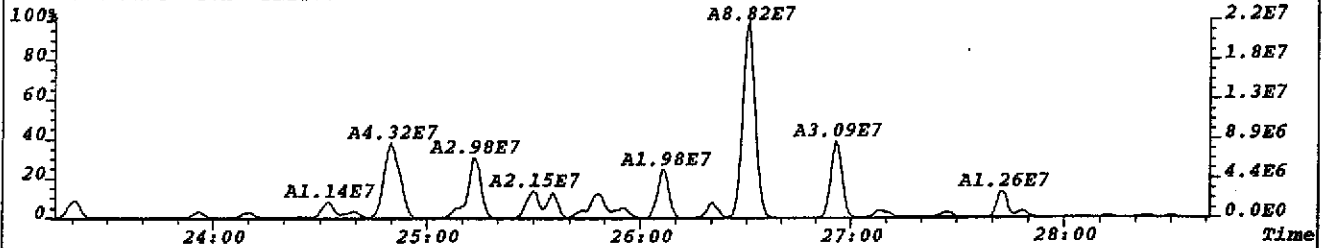
Column Description.....	"Why" Code	Description.....	QC Log Desc.....
M_Z	-Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT.	-Retention Time (mm:ss)	WH-Above Retention Time Window	X-Peak Kept
Rat.1	-Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK	-RO=Ratio Outside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

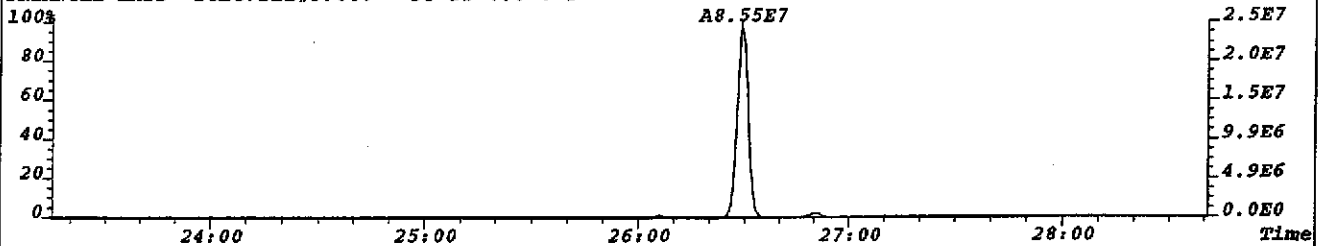
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TRIANGLE LABS Text:TLI#57840 DF-DP-676 0-2'



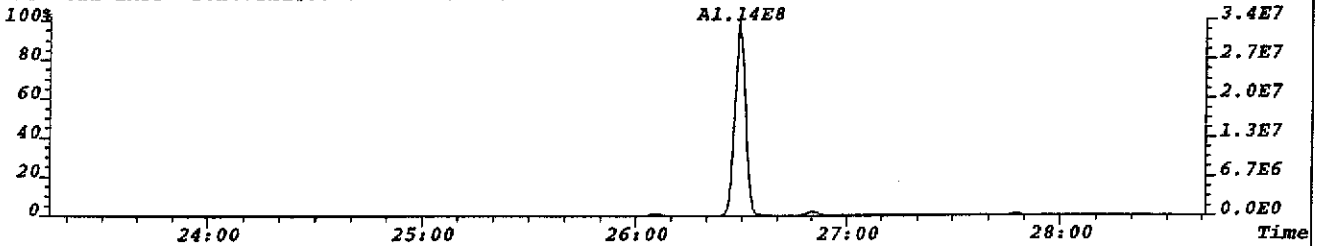
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TRIANGLE LABS Text:TLI#57840 DF-DP-676 0-2'



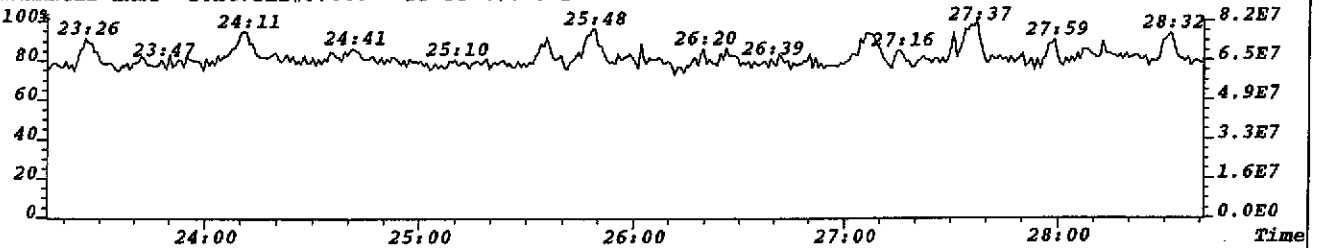
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TRIANGLE LABS Text:TLI#57840 DF-DP-676 0-2'



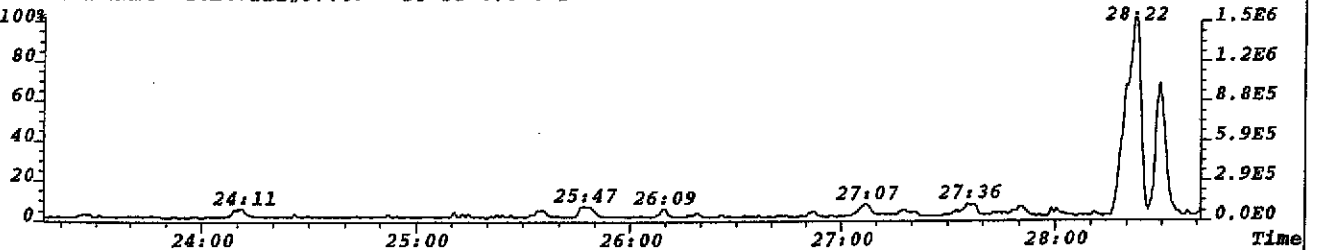
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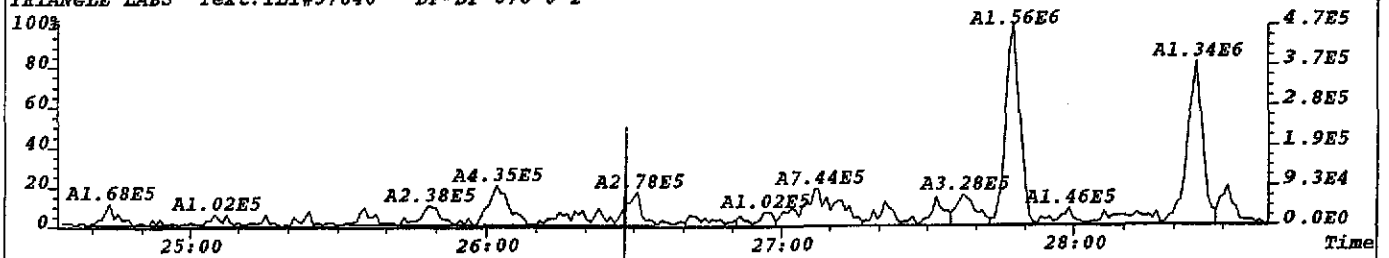
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330.9792 S:13 F:2 Exp:NDB5US
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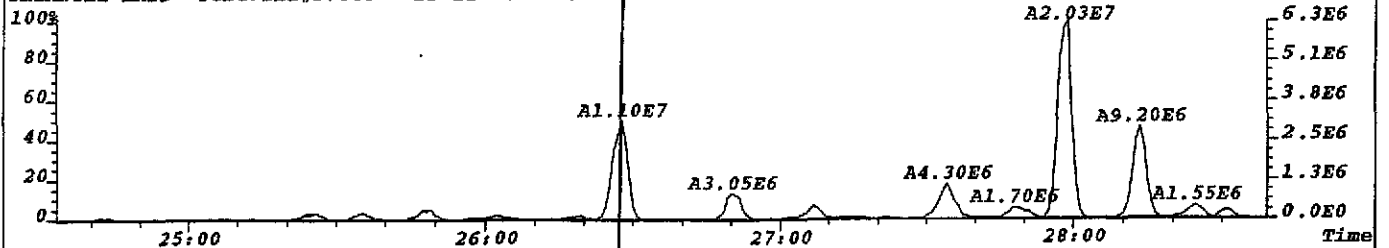
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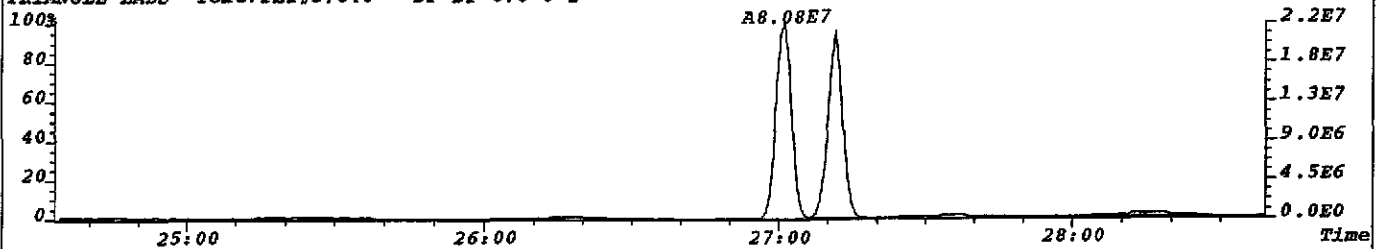
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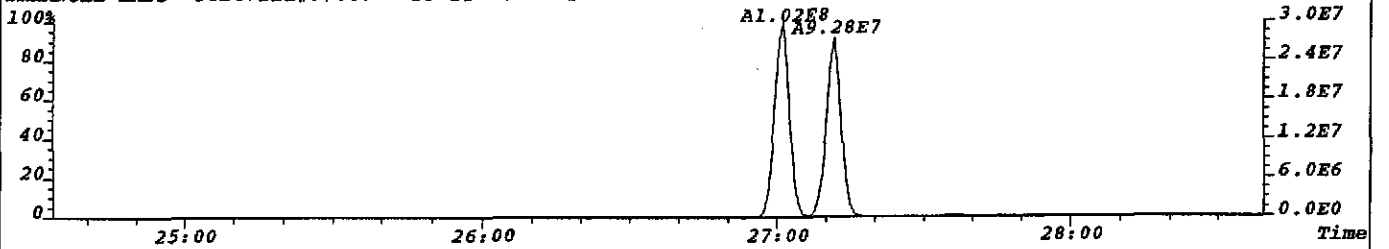
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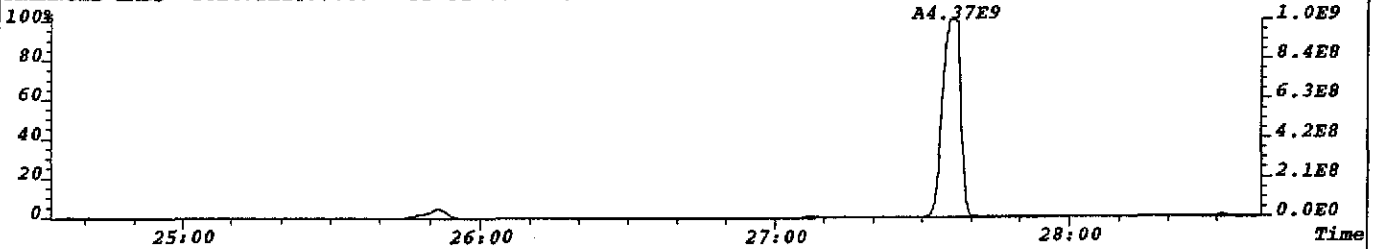
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TRIANGLE LABS Text:TLI#57840 DF-DP-676 0-2'



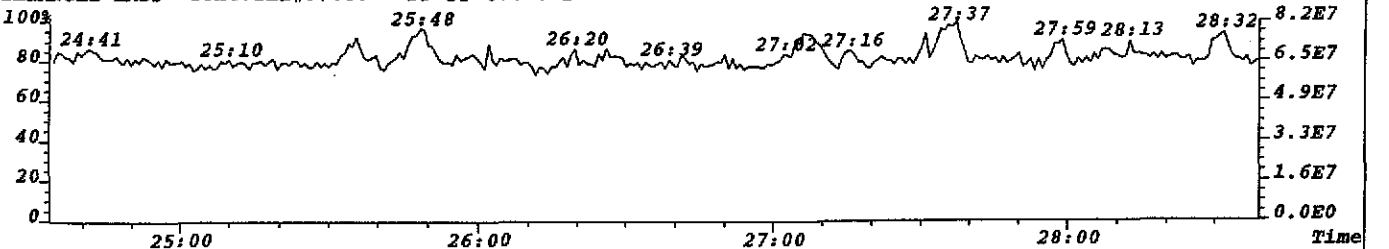
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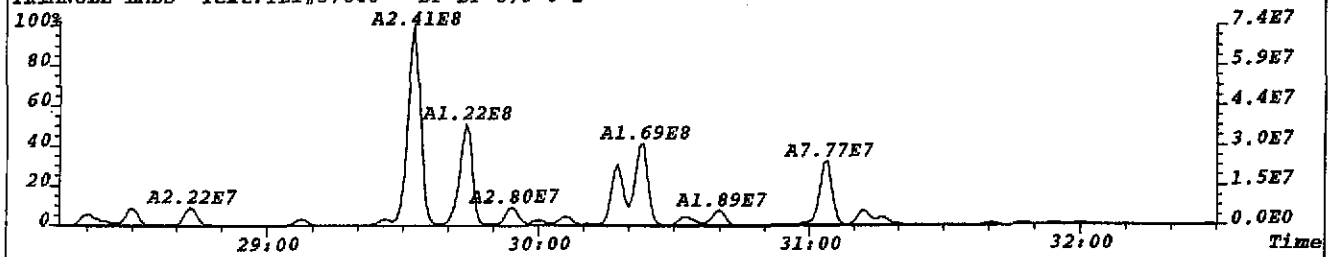
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TRIANGLE LABS Text:TLI#57840 DF-DP-676 0-2'



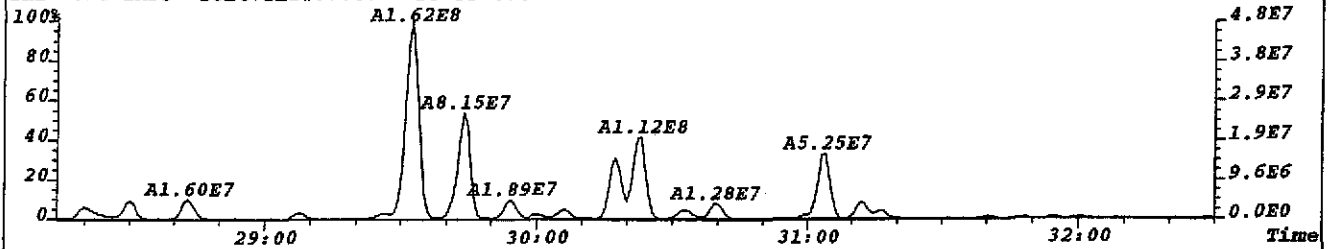
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TRIANGLE LABS Text:TLI#57840 DF-DP-676 0-2'



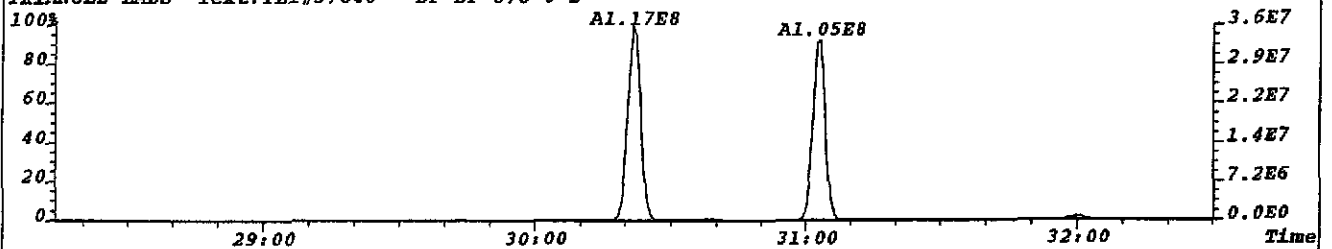
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TRIANGLE LABS Text:TLI#57840 DF-DP-676 0-2'



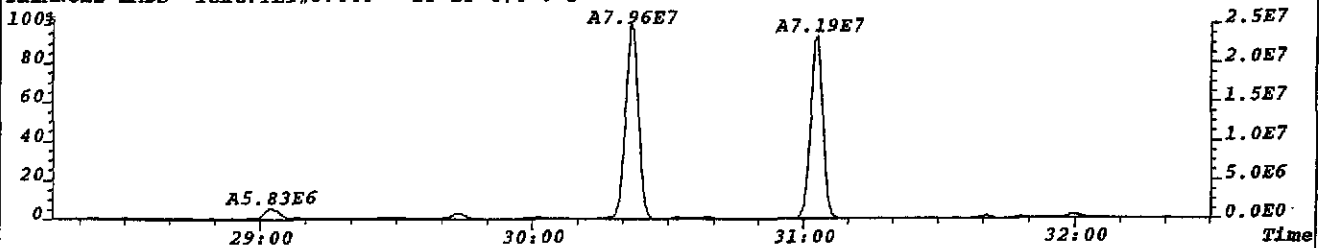
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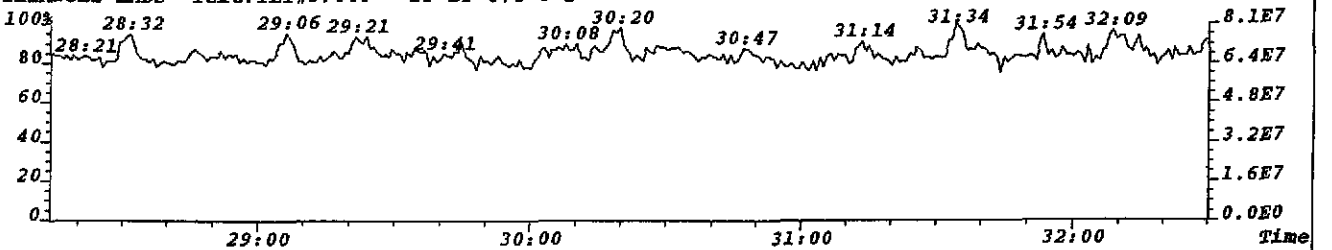
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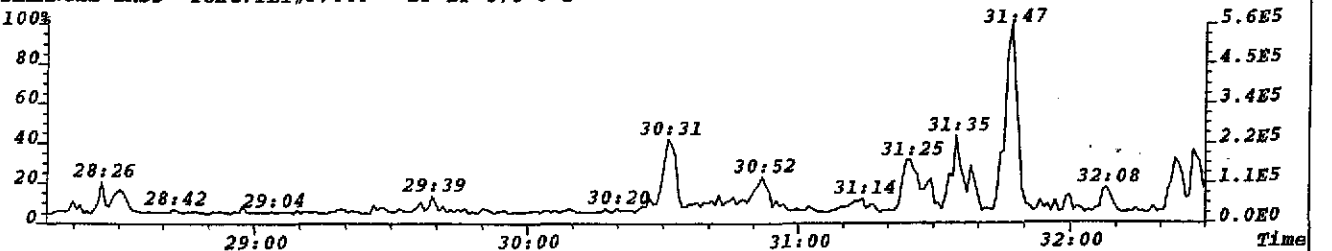
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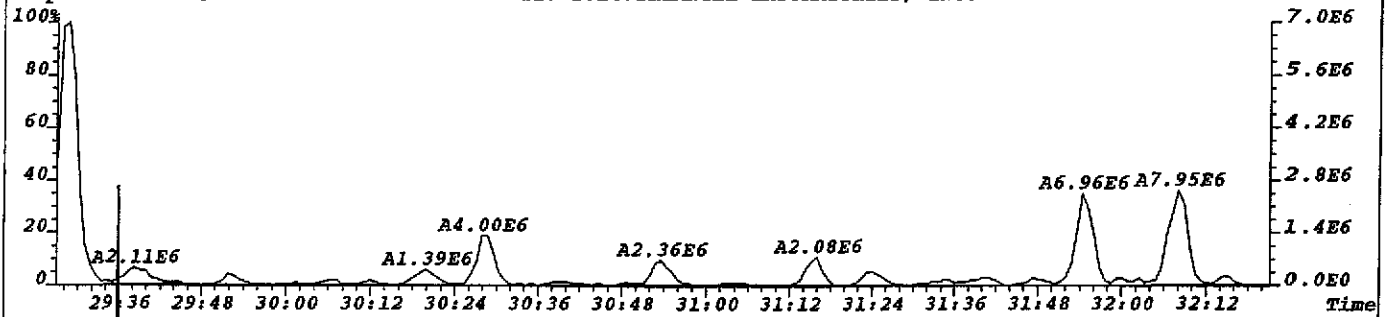
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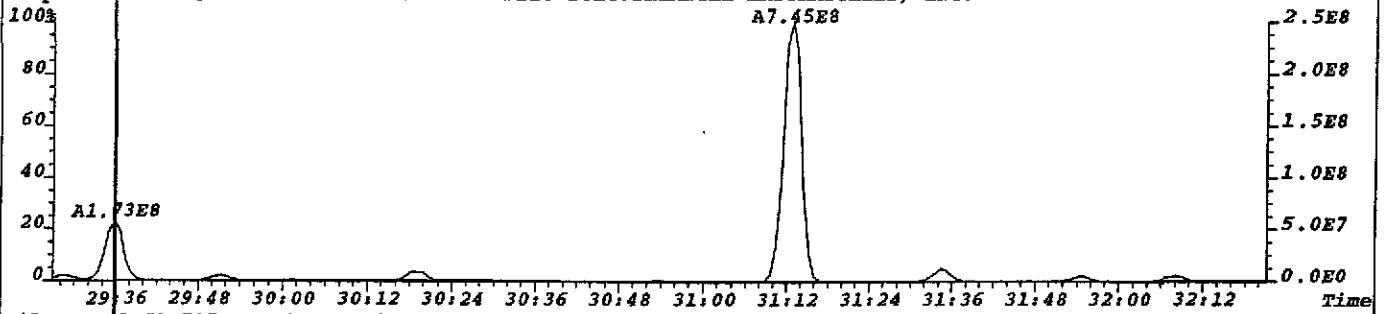
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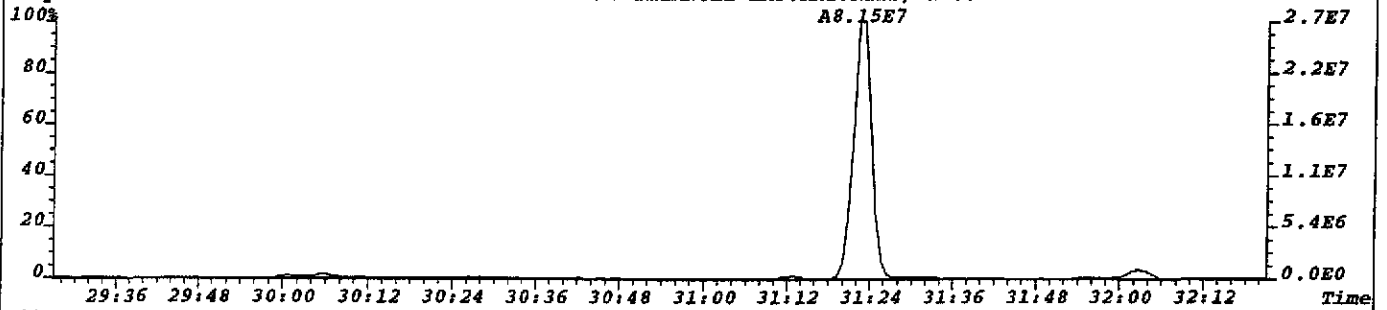
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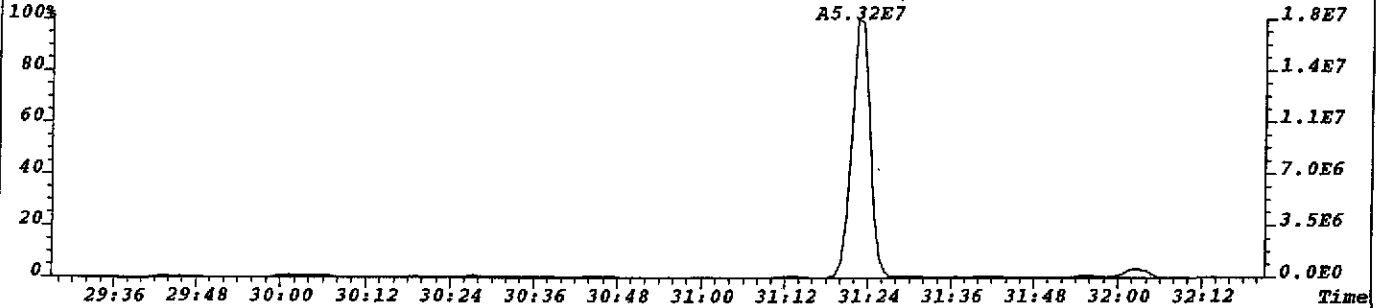
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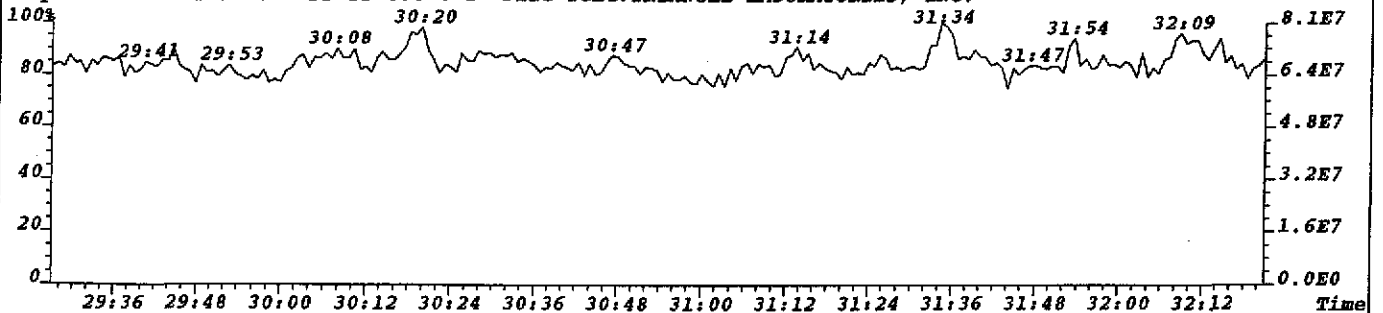
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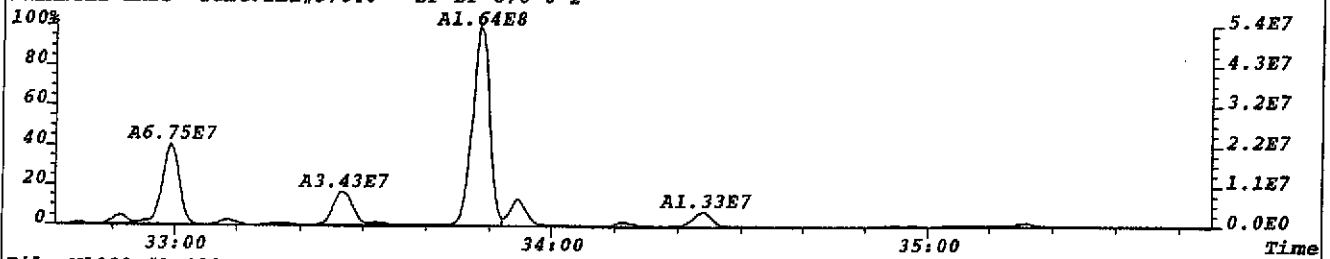
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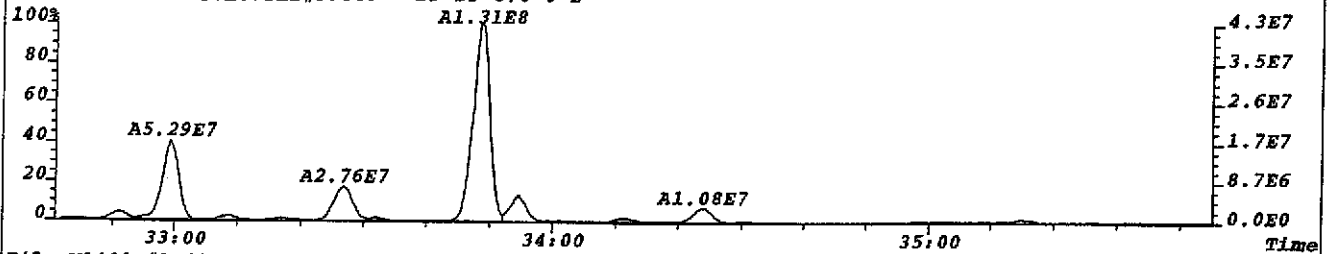
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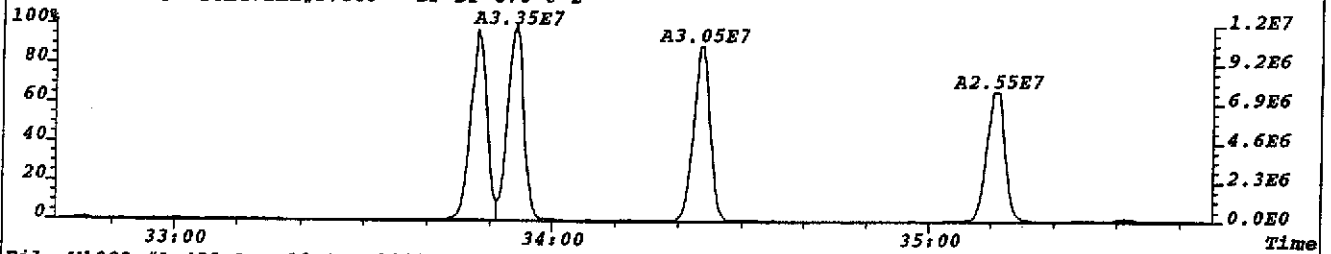
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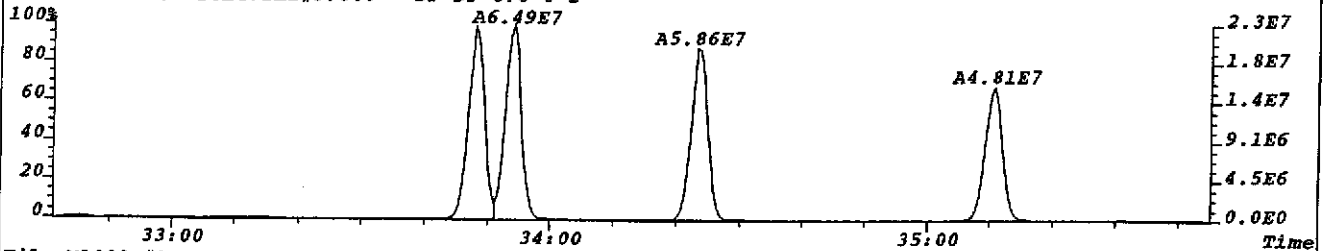
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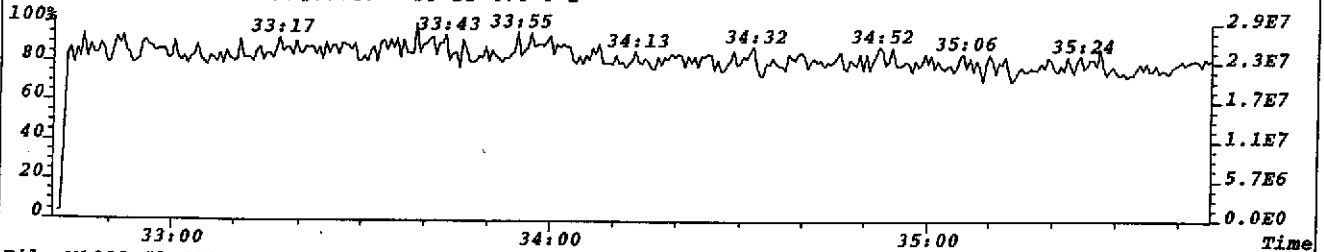
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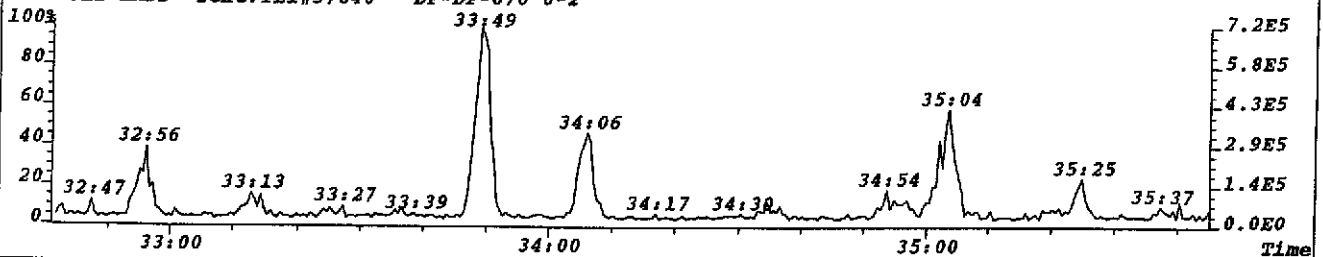
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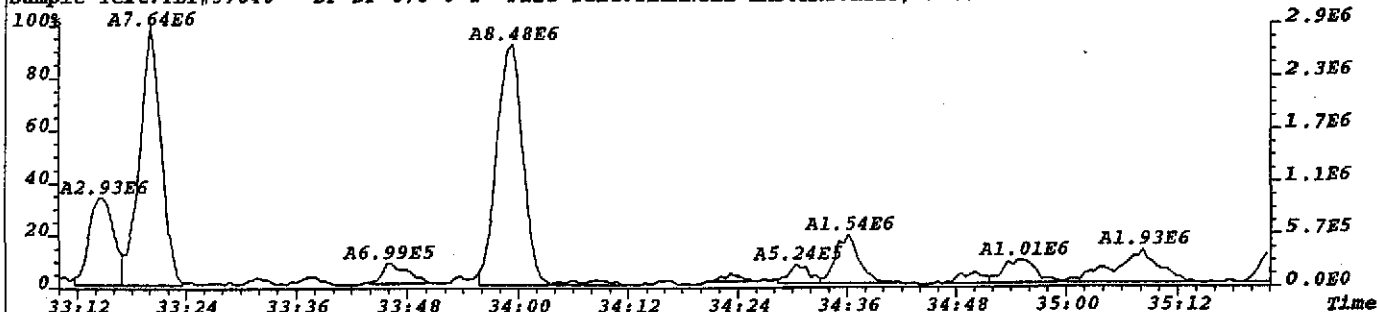
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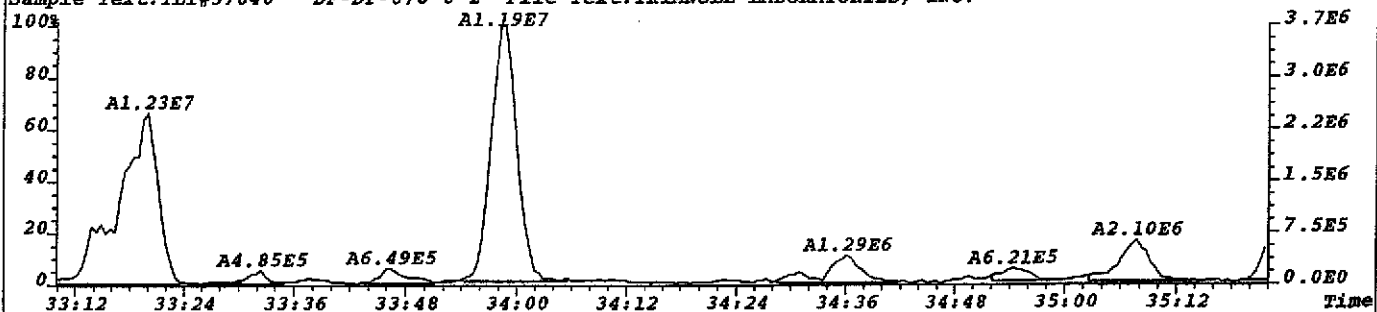
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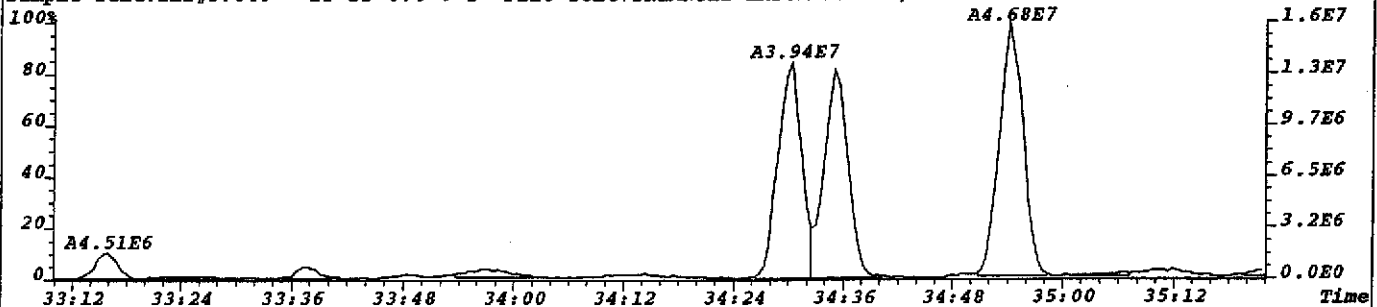
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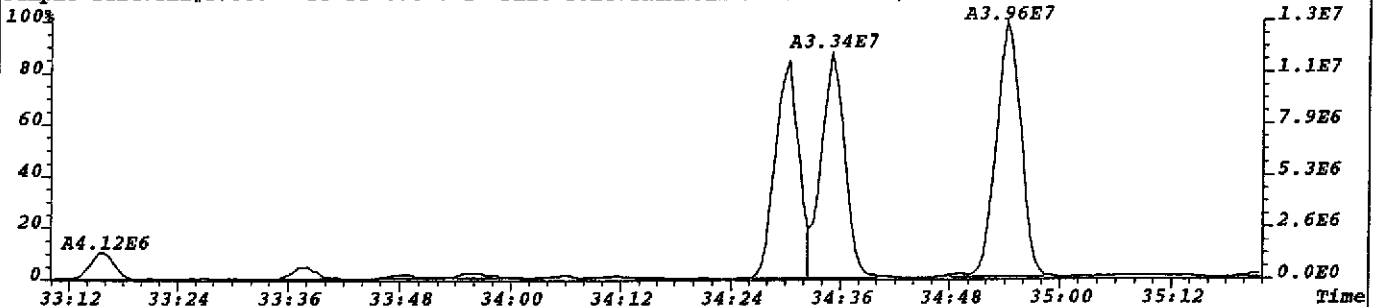
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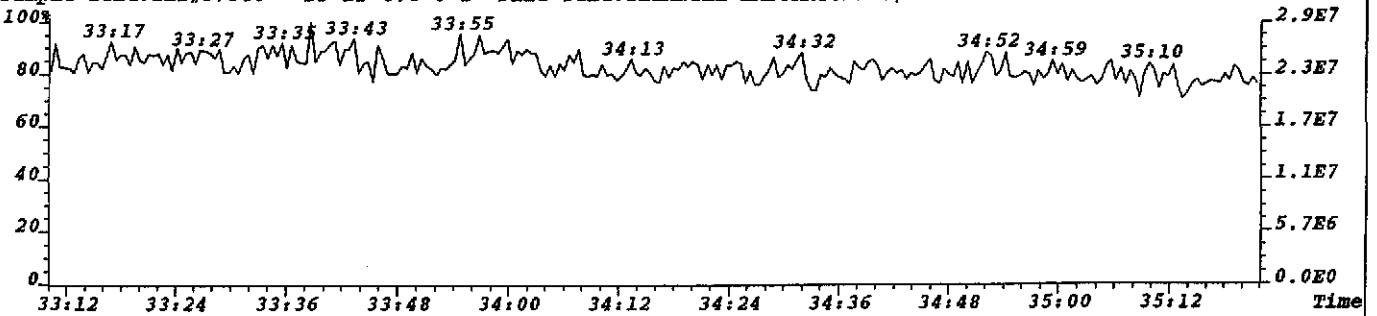
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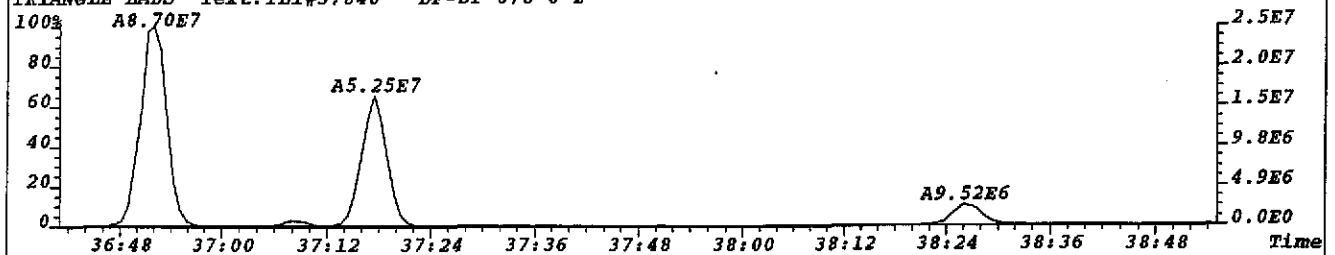
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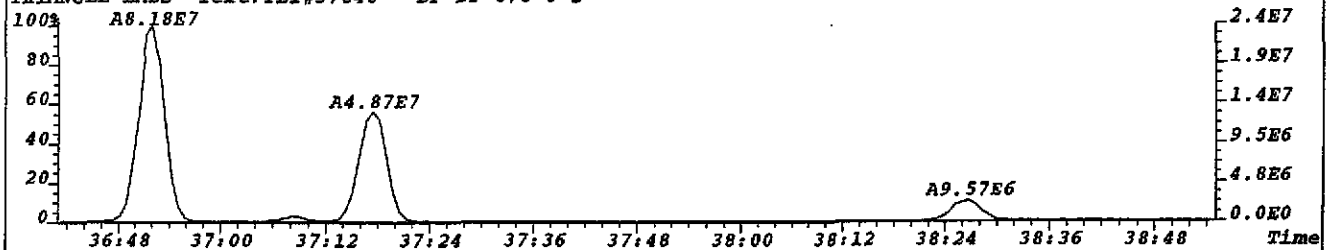
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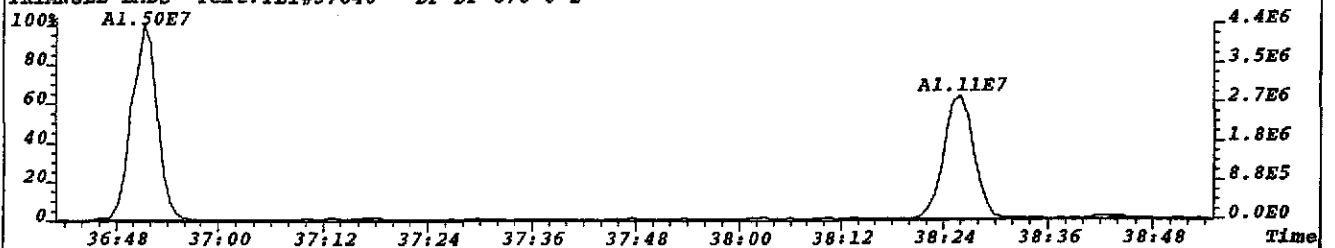
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TRIANGLE LABS Text:TLI#57840 DF-DP-676 0-2'



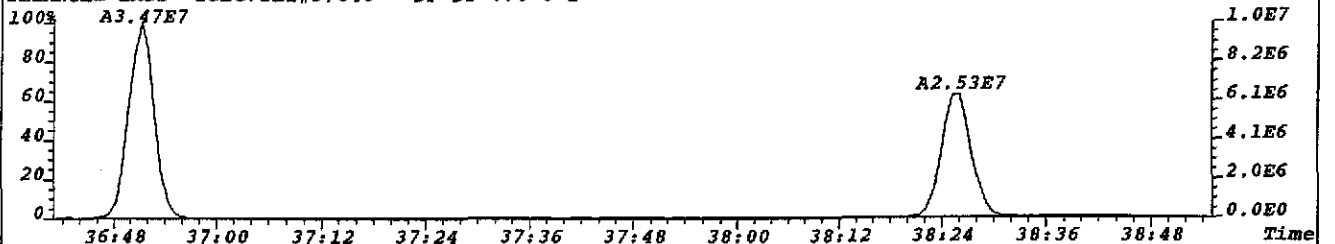
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TRIANGLE LABS Text:TLI#57840 DF-DP-676 0-2'



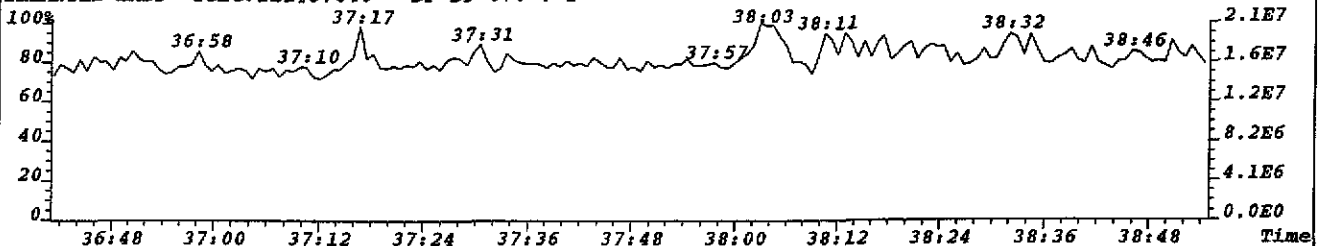
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TRIANGLE LABS Text:TLI#57840 DF-DP-676 0-2'



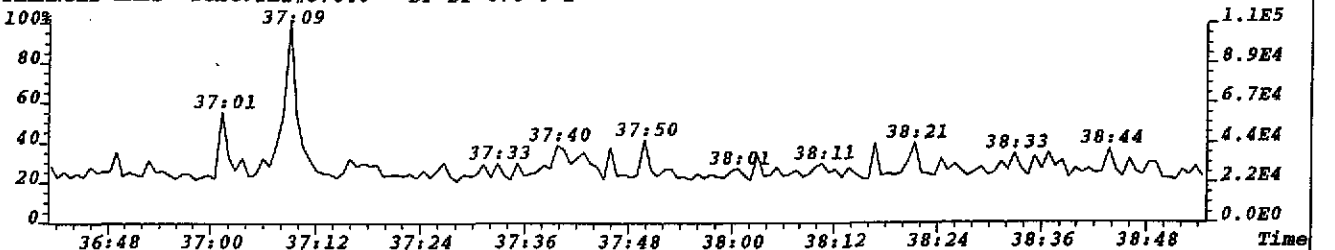
File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S Noise:7203
419.8220 S:13 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,28812.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-676 0-2'



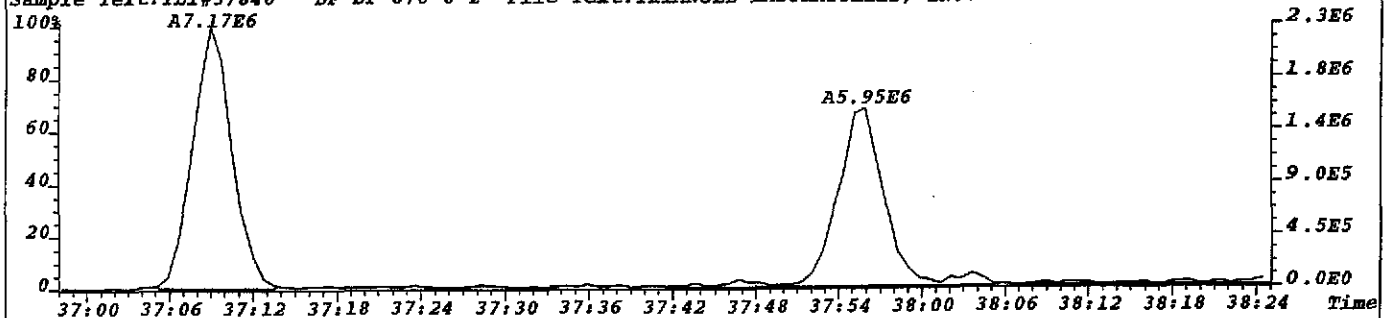
File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
430.9729 S:13 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-676 0-2'



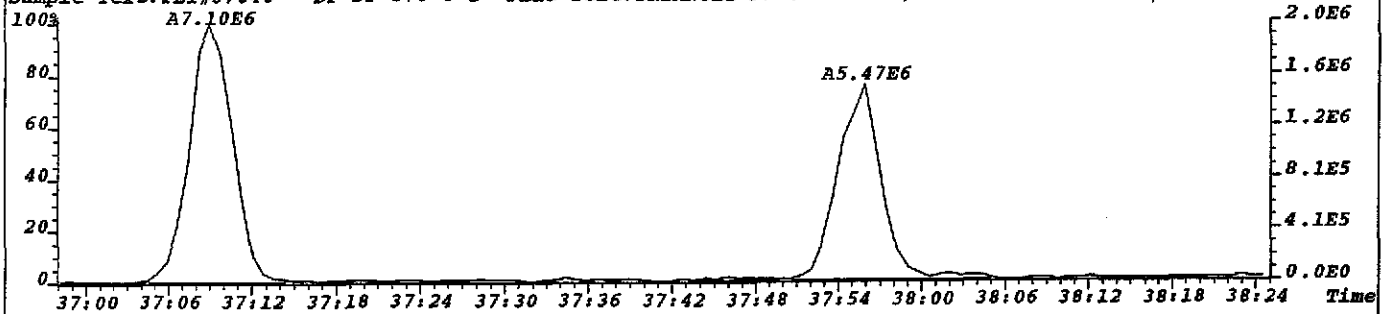
File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
479.7165 S:13 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-676 0-2'



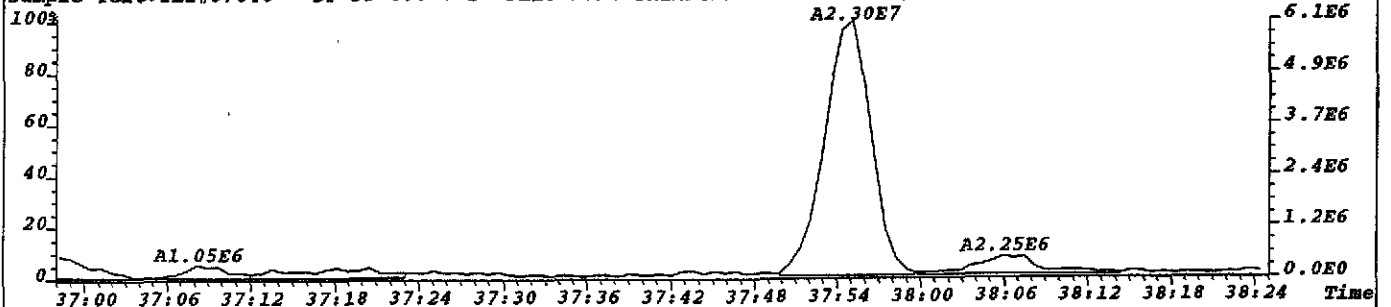
File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
423.7766 S:13 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,29132.0,1.00%,F,T) Exp:NDB5US Noise:7283
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



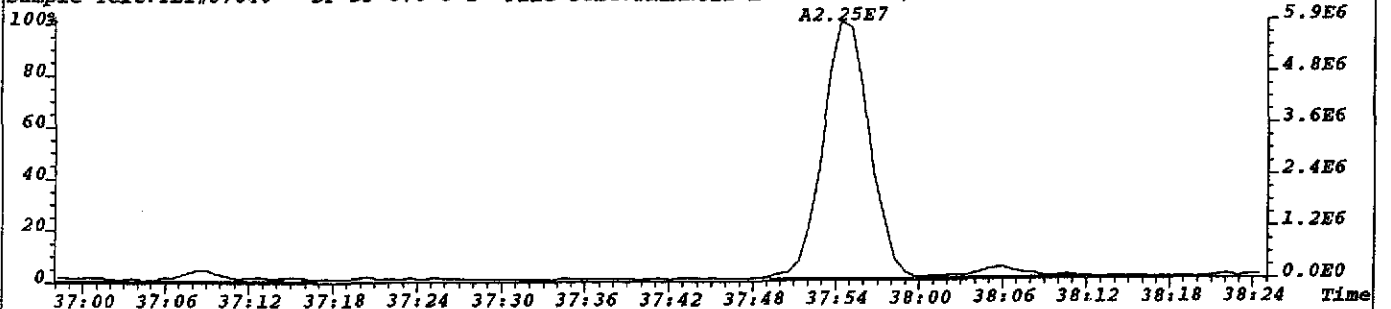
File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
425.7737 S:13 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,20524.0,1.00%,F,T) Exp:NDB5US Noise:5131
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



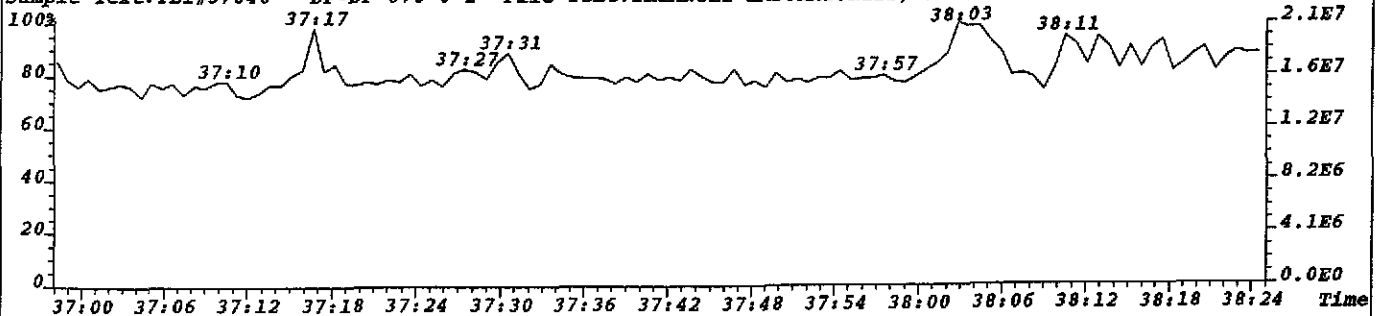
File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
435.8169 S:13 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,162292.0,1.00%,F,T) Exp:NDB5US Noise:40573
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
437.8140 S:13 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,82688.0,1.00%,F,T) Exp:NDB5US Noise:20672
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



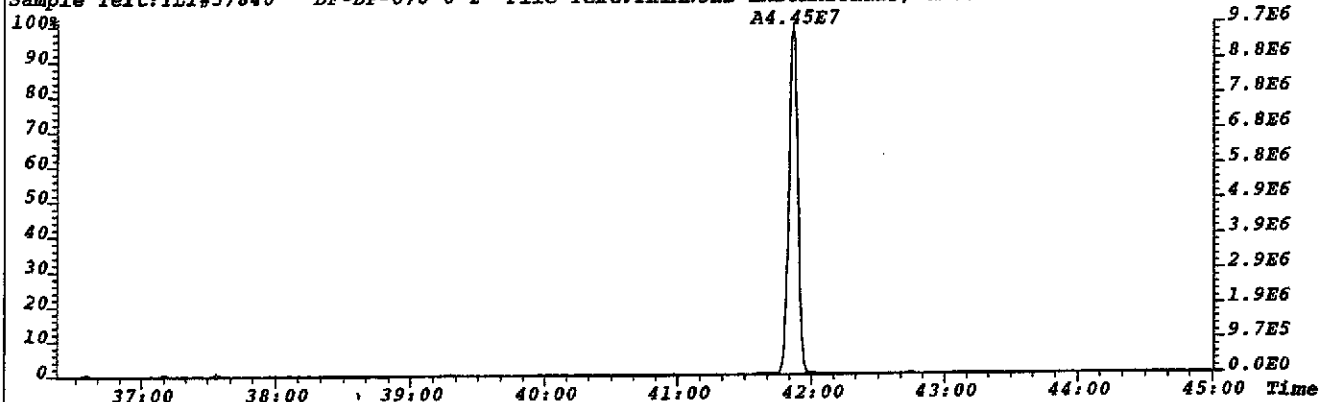
File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
430.9729 S:13 F:4 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



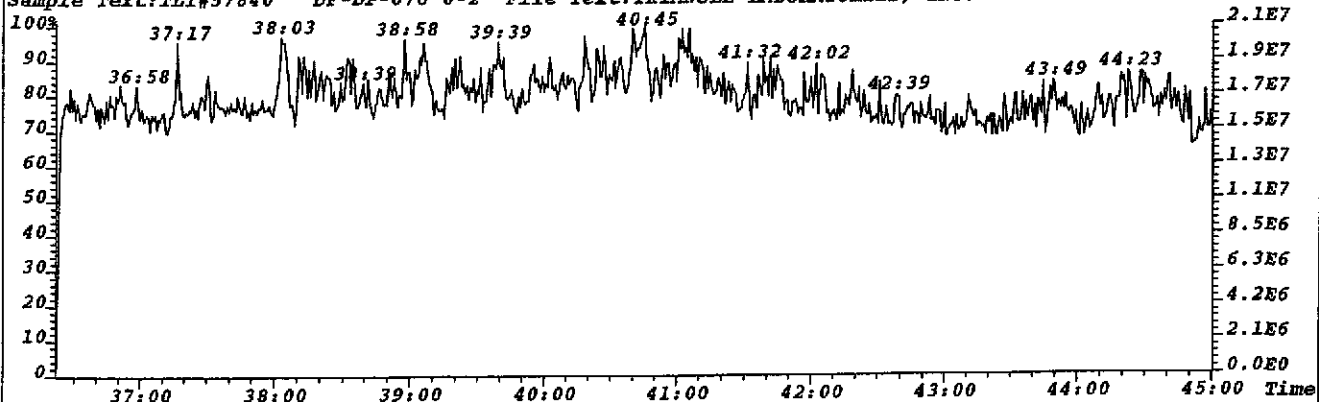
File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S Noise:2803
441.7428 S:13 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11212.0,1.00%,F,T) Exp:NDB5US
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



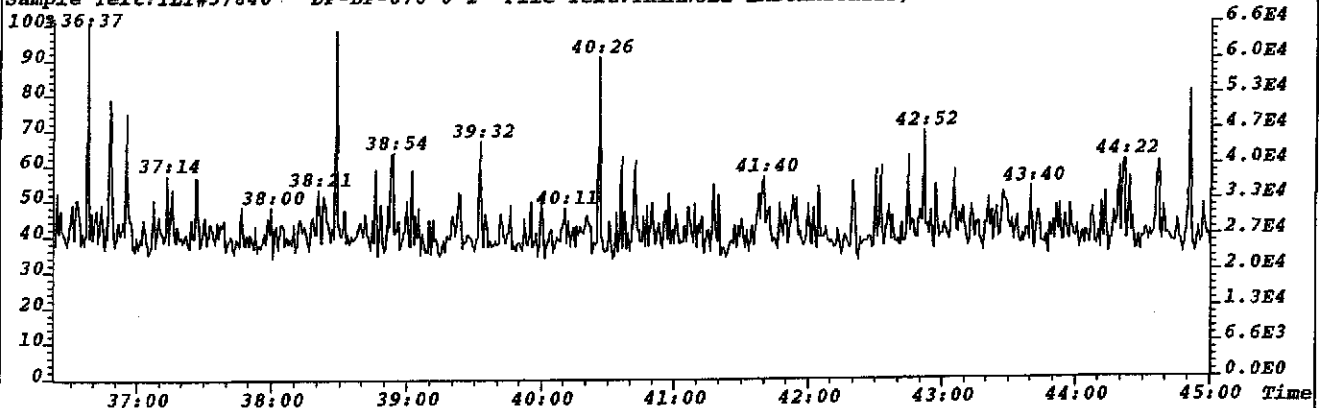
File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S Noise:2799
443.7399 S:13 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,11196.0,1.00%,F,T) Exp:NDB5US
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



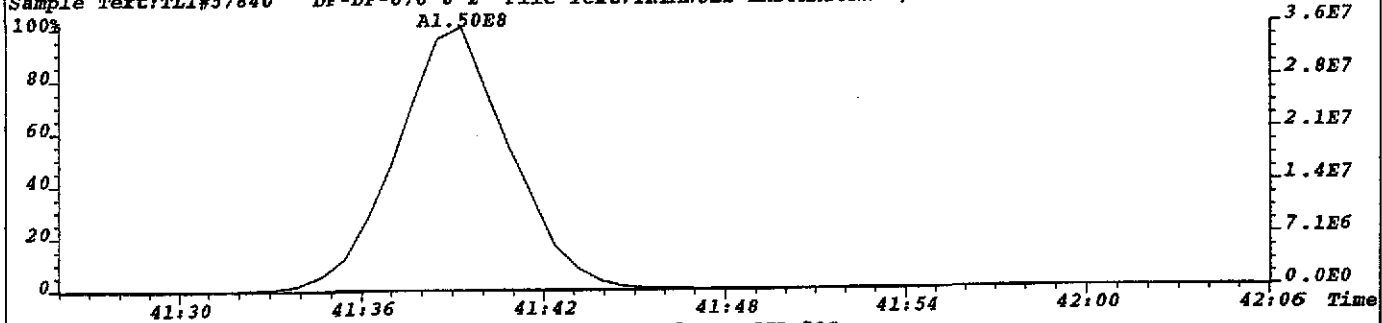
File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
430.9729 S:13 F:4 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



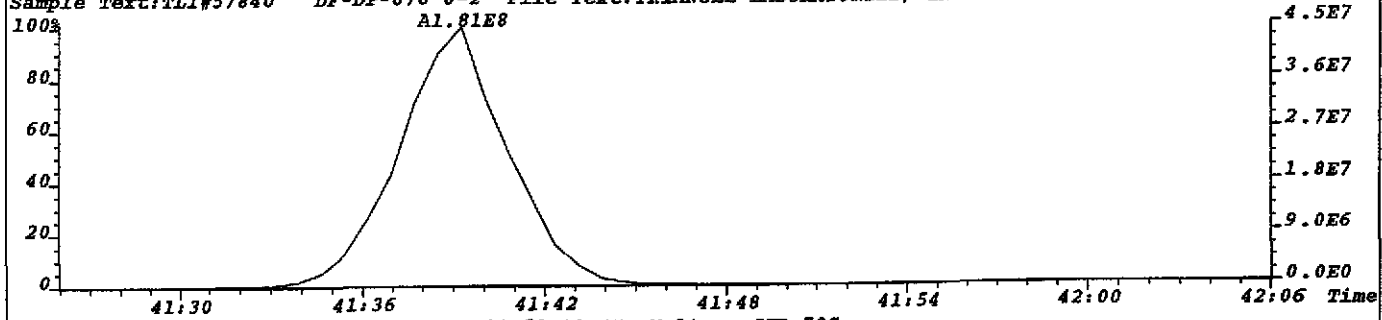
File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
513.6775 S:13 F:4 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



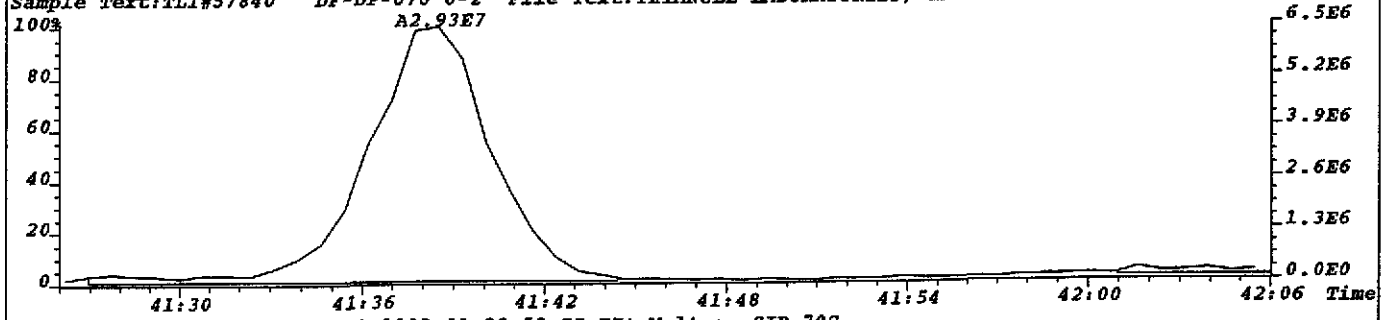
File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
457.7377 S:13 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,7804.0,1.00%,F,T) Exp:NDB5US Noise:1951
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



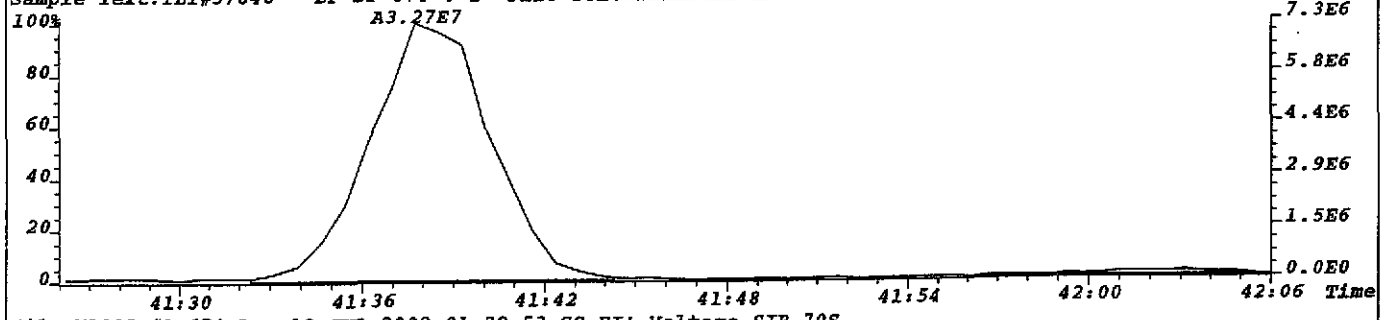
File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
459.7348 S:13 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8088.0,1.00%,F,T) Exp:NDB5US Noise:2022
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



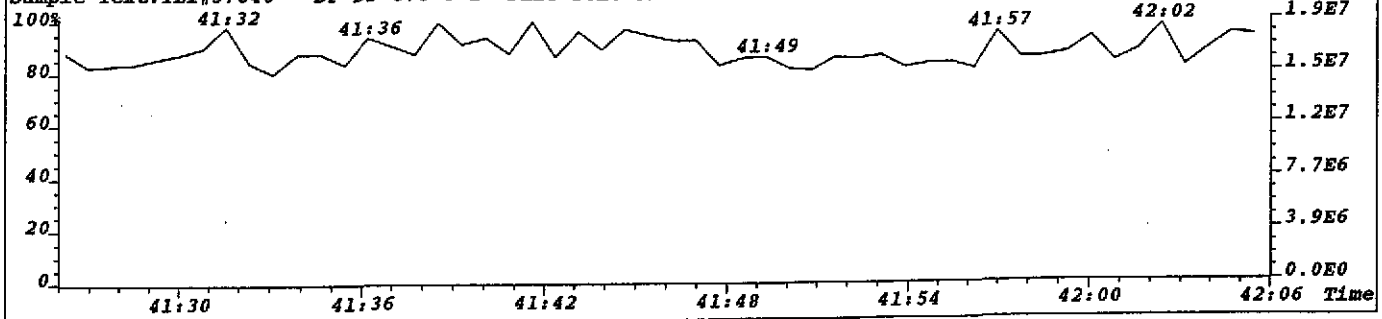
File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
469.7779 S:13 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,140900.0,1.00%,F,T) Exp:NDB5US Noise:35225
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



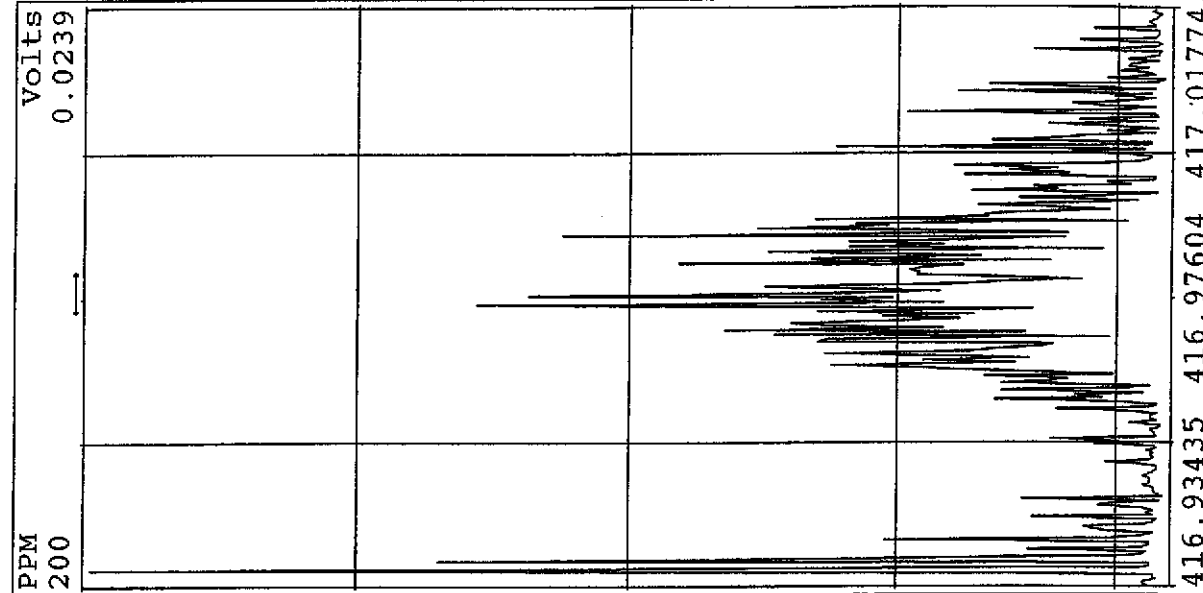
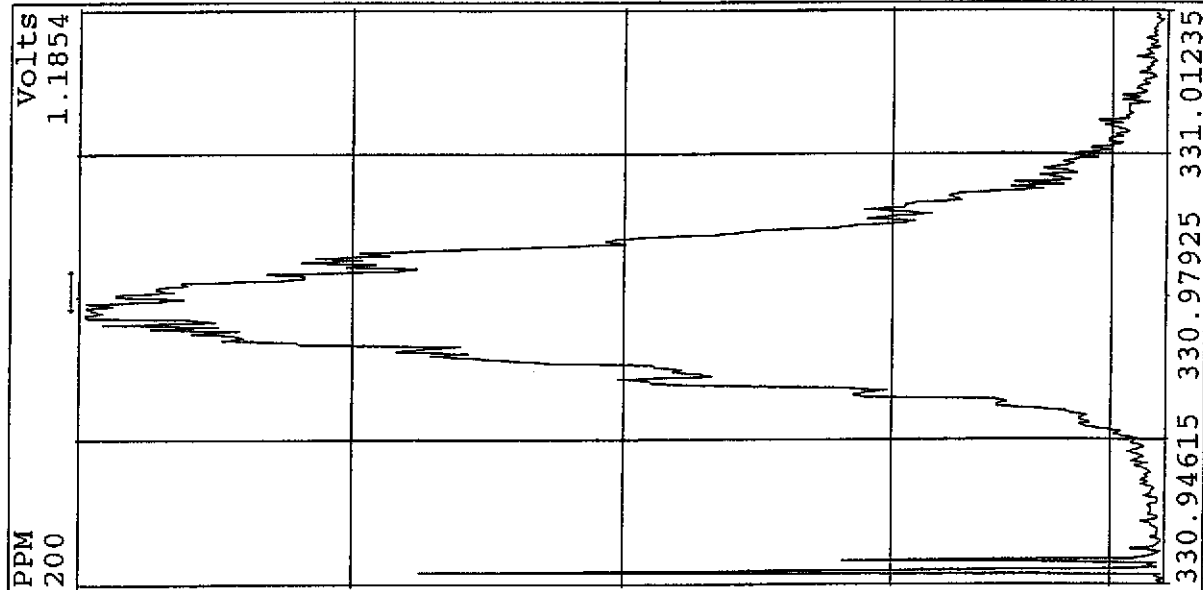
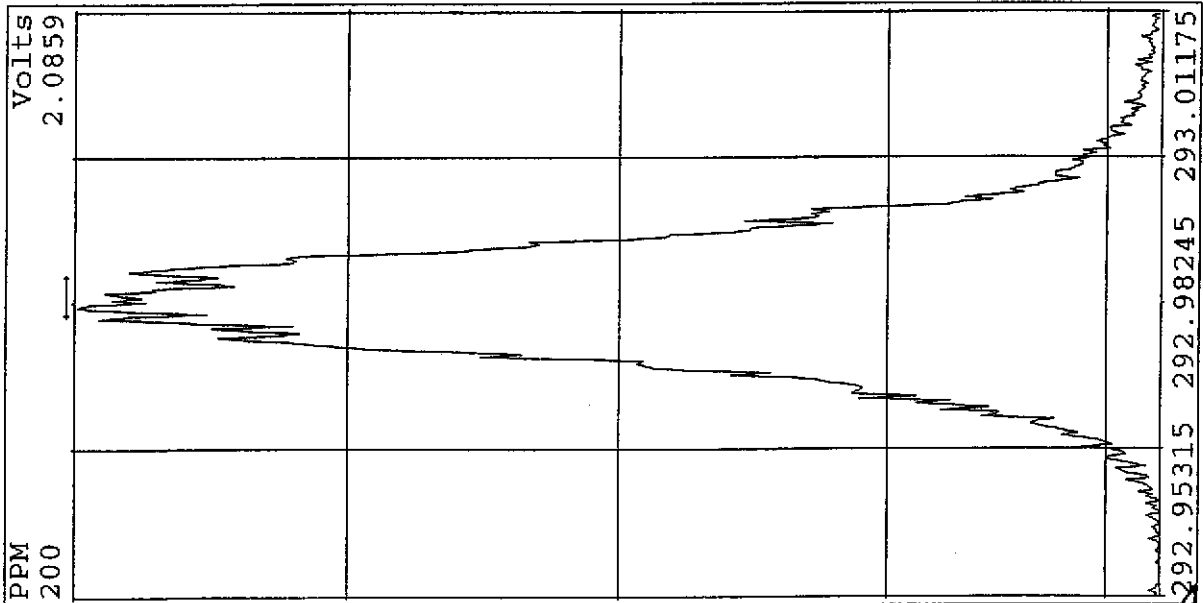
File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
471.7750 S:13 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,75300.0,1.00%,F,T) Exp:NDB5US Noise:18825
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-674 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
430.9729 S:13 F:4 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



Peak Locate Examination: 17-JUL-2002:15:51 File:W1082
Experiment:NDB5US Function:2 Reference:PFK



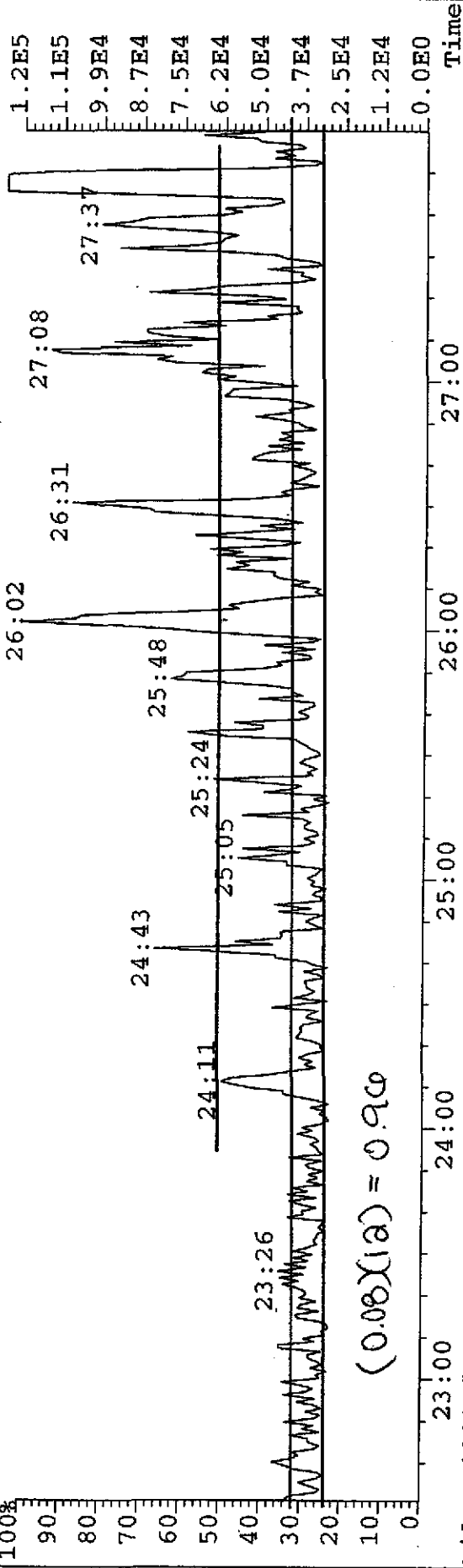
08M718102

$N = 0.90 + 1.75 = 2.71$

File:W1082 #1-797 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

319.8965 S:13 F:2 Exp:NDB5US

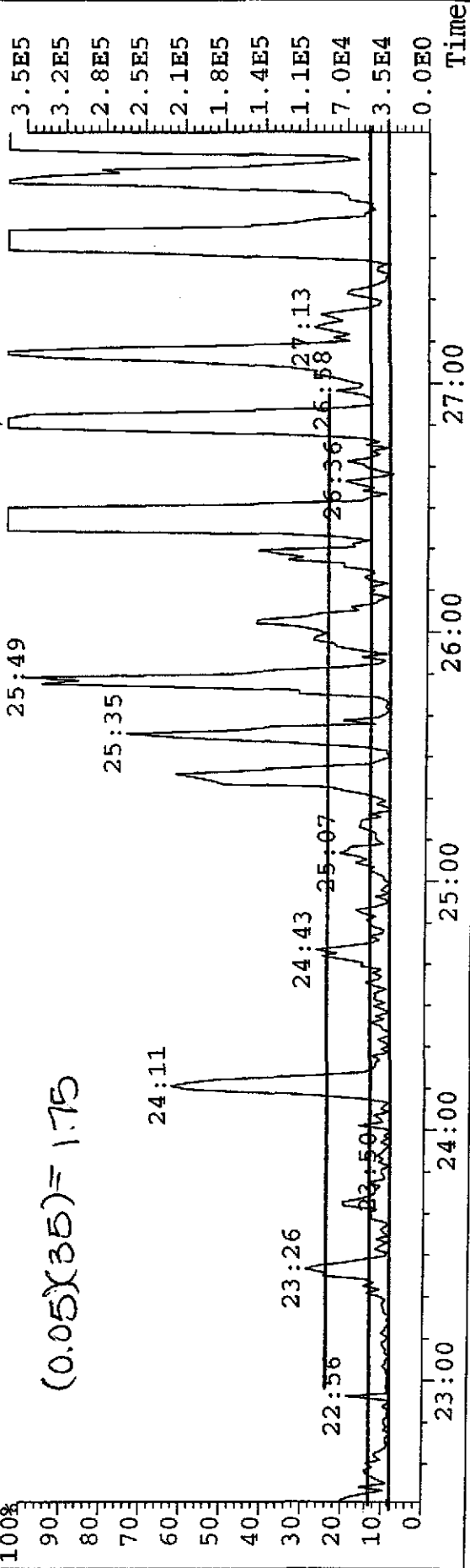
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



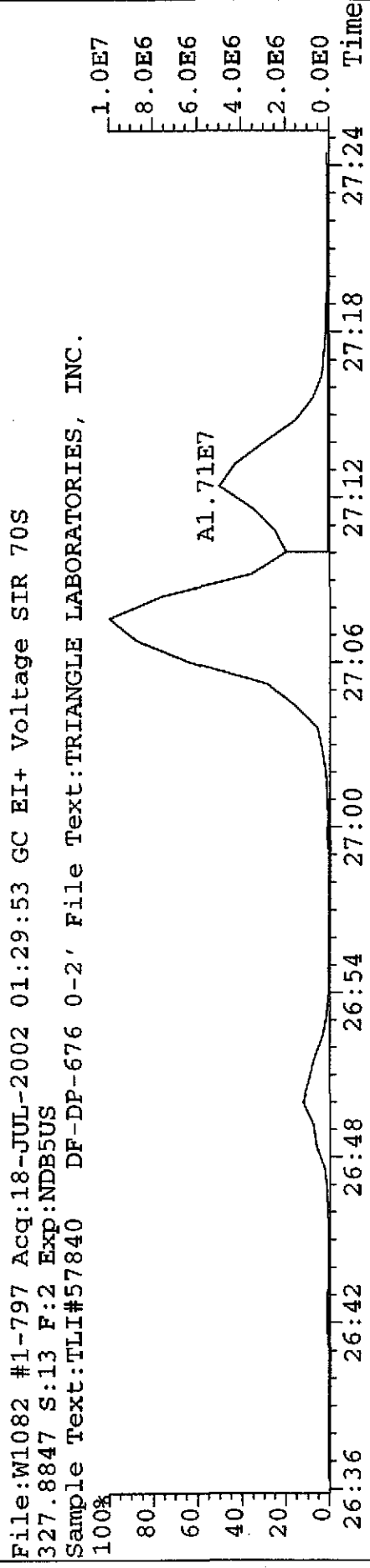
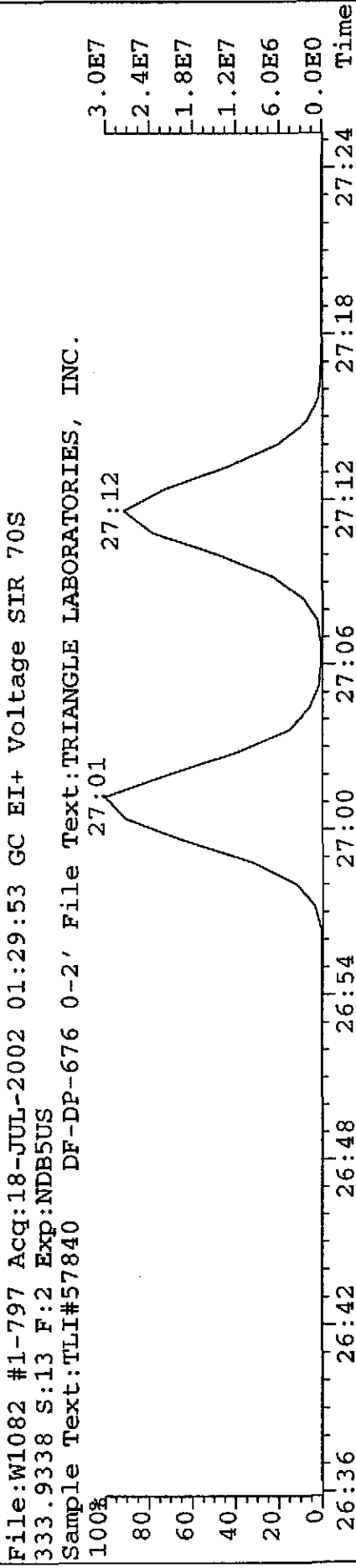
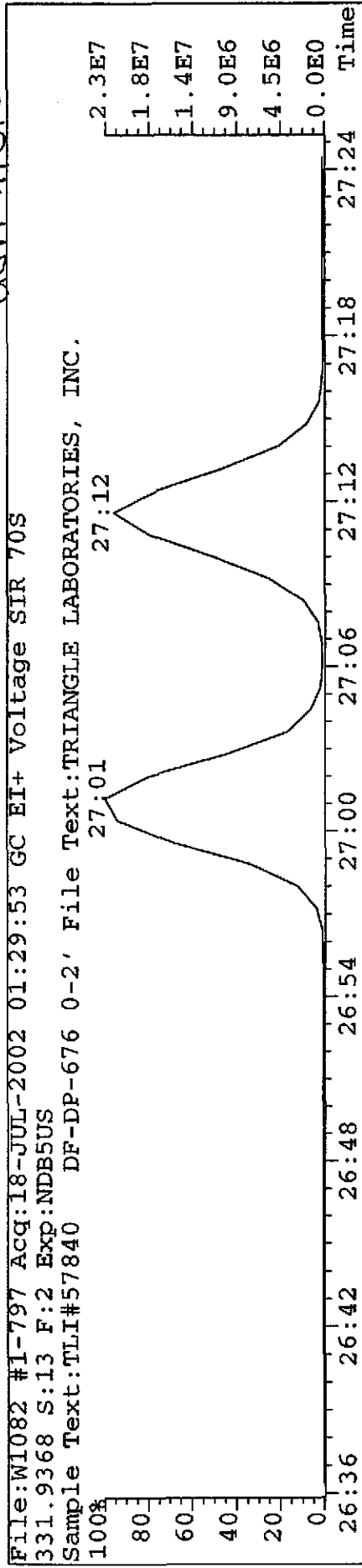
File:W1082 #1-797 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

321.8936 S:13 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



QAM 7/18/02



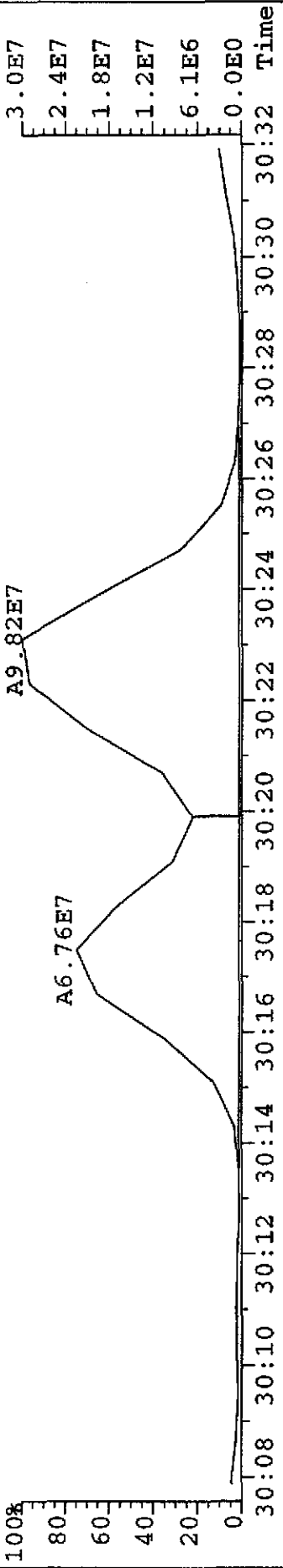
dem 7/18/02

File:W1082 #1-797 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

339.8597 S:13 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.

100% A9.82E7

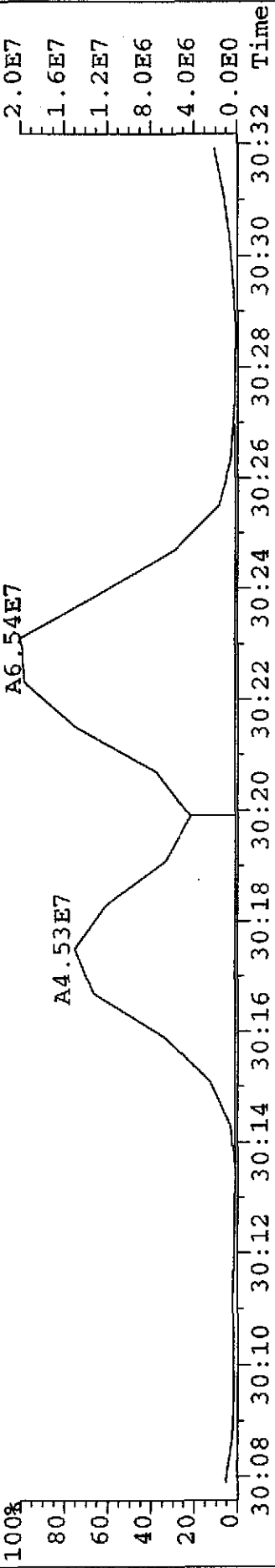


File:W1082 #1-797 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

341.8567 S:13 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.

100% A6.54E7

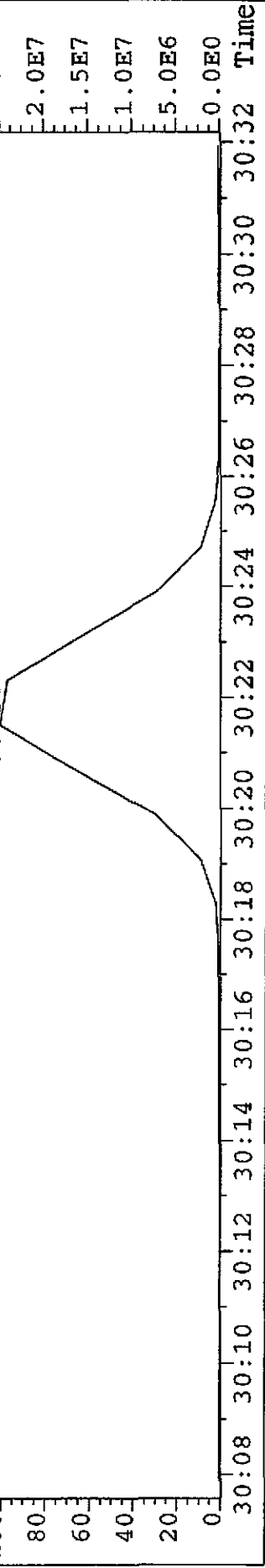


File:W1082 #1-797 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

353.8970 S:13 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.

100% 30.22

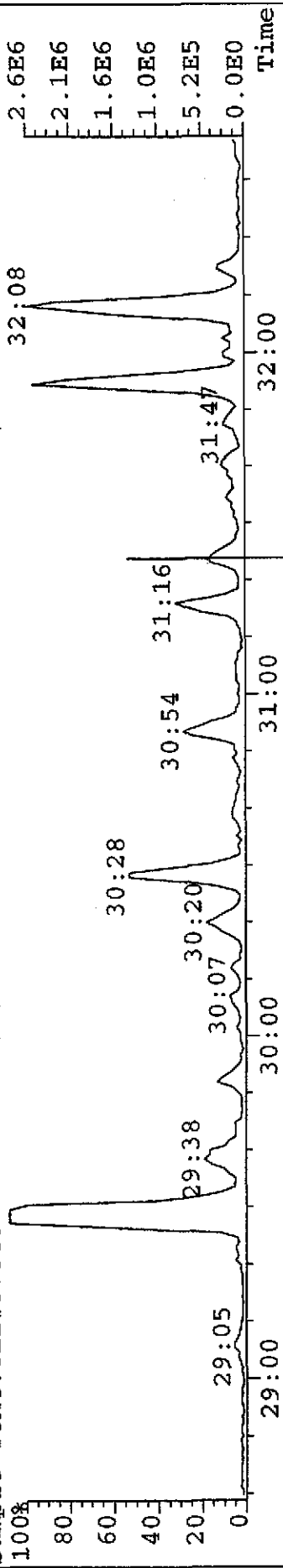


020 7118102

File:W1082 #1-797 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

355.8546 S:13 F:2 Exp:NDB5US

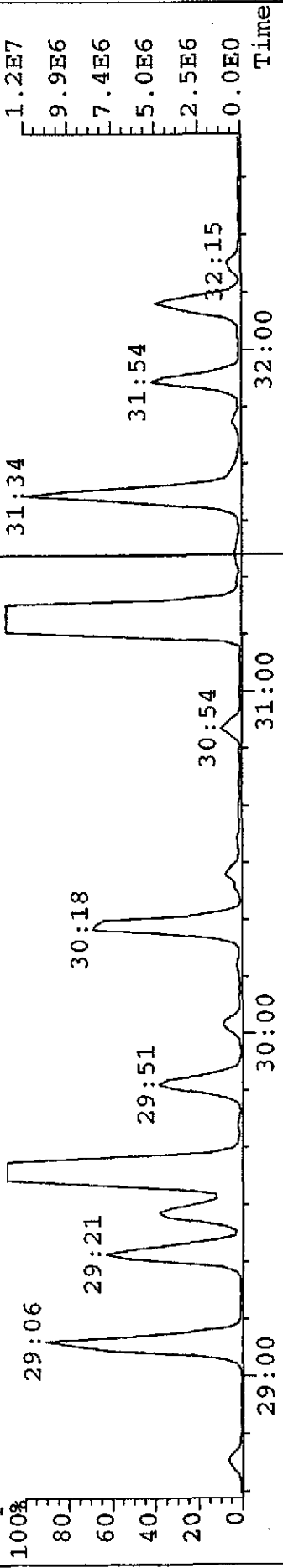
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-797 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

357.8516 S:13 F:2 Exp:NDB5US

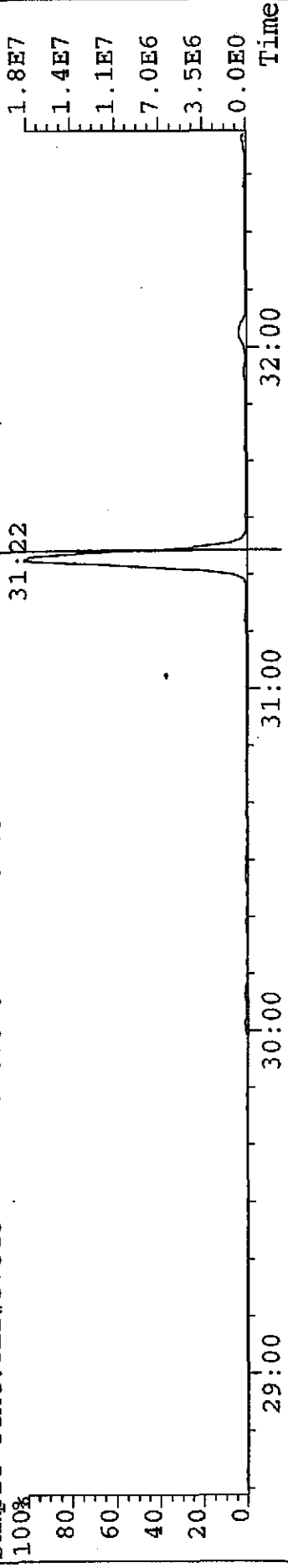
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-797 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

369.8919 S:13 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



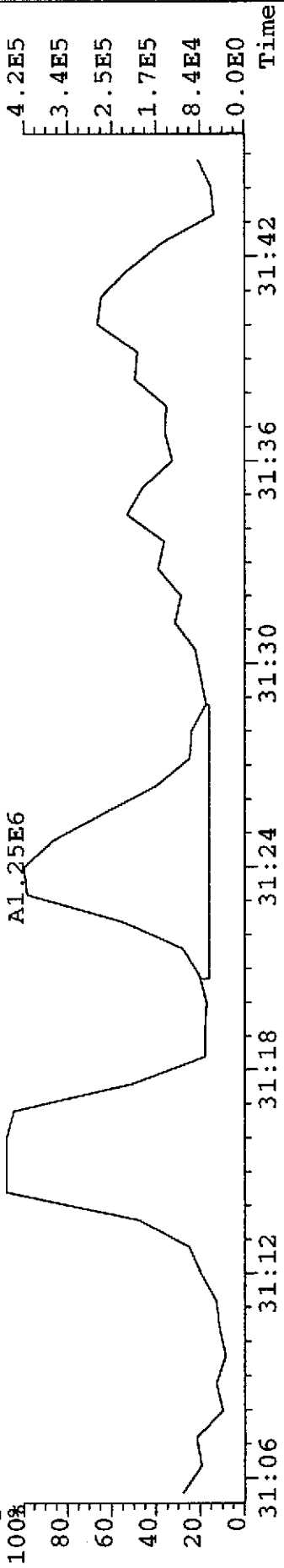
080718102

File:W1082 #1-797 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

355.8546 S:13 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.

A1.25E6

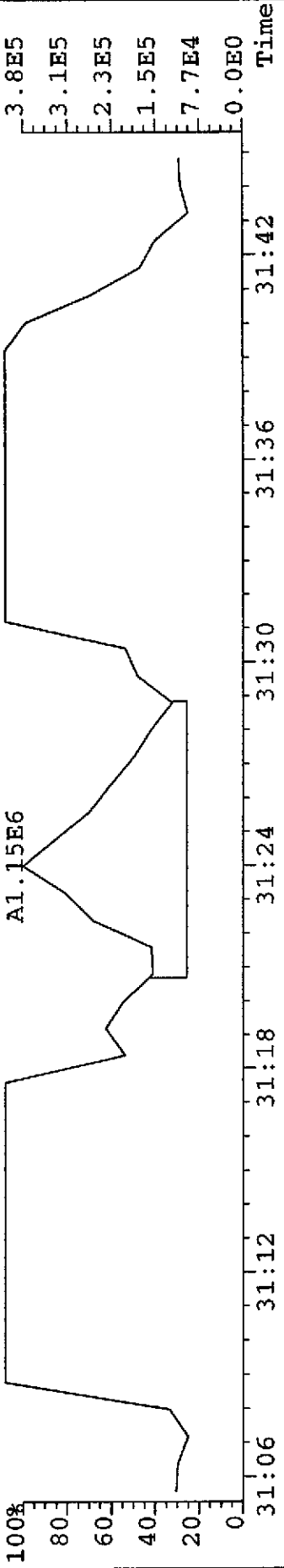


File:W1082 #1-797 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

357.8516 S:13 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.

A1.15E6

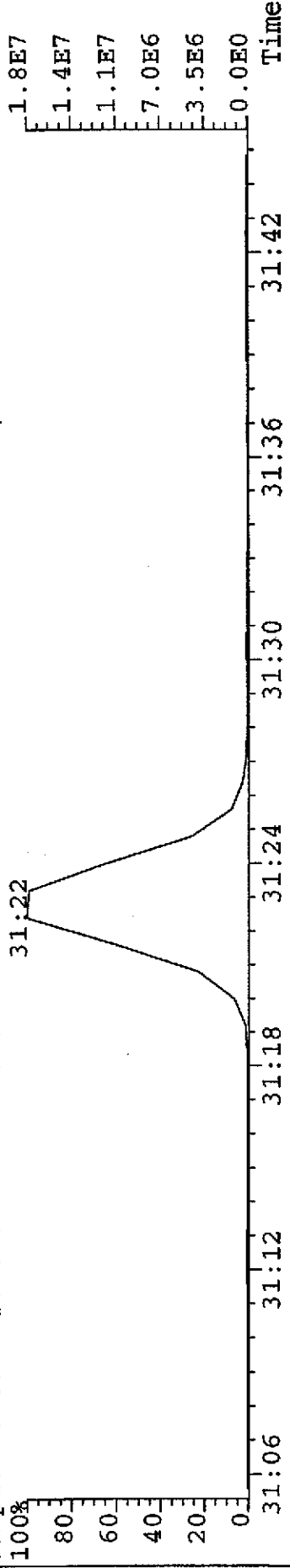


File:W1082 #1-797 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

369.8919 S:13 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.

31:22

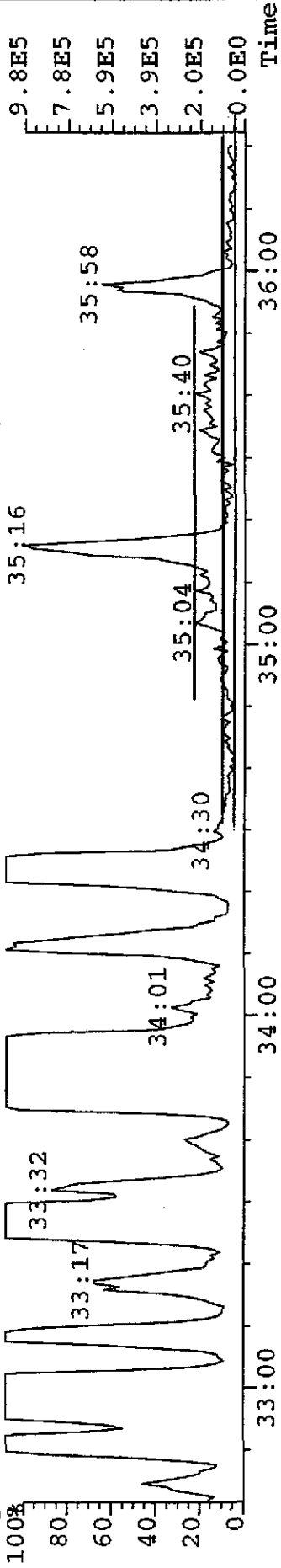


QSM 7/10/02

File:W1082 #1-423 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

373.8208 S:13 F:3 Exp:NDB5US

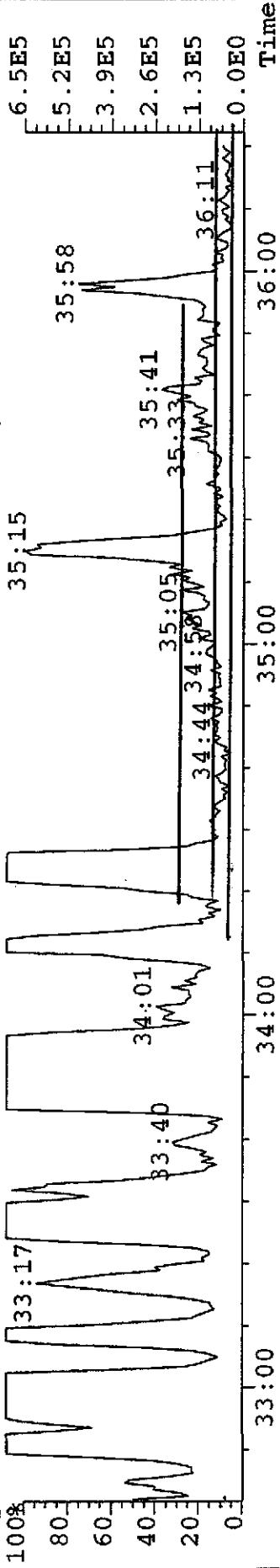
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-423 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

375.8178 S:13 F:3 Exp:NDB5US

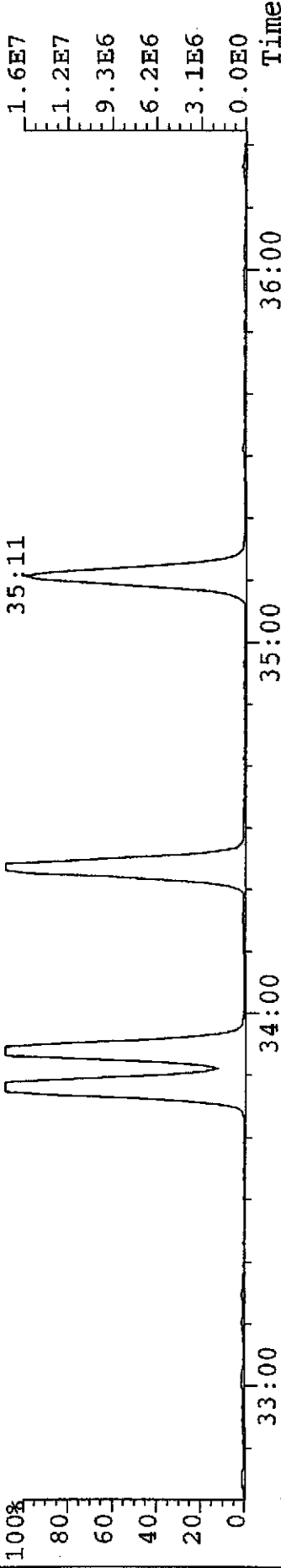
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-423 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

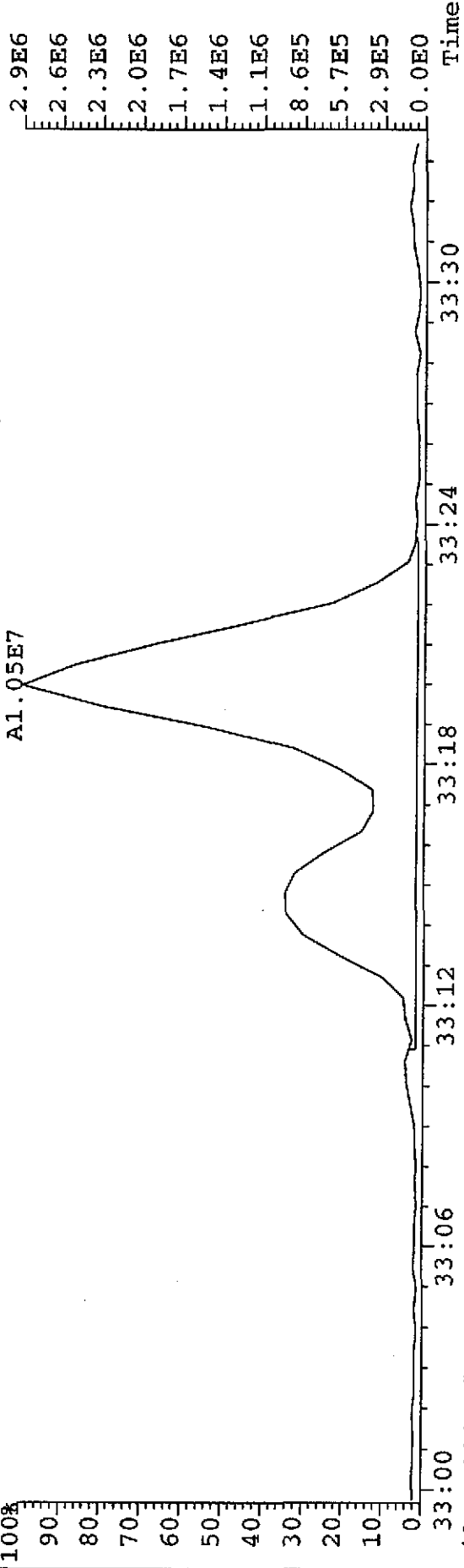
385.8610 S:13 F:3 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.

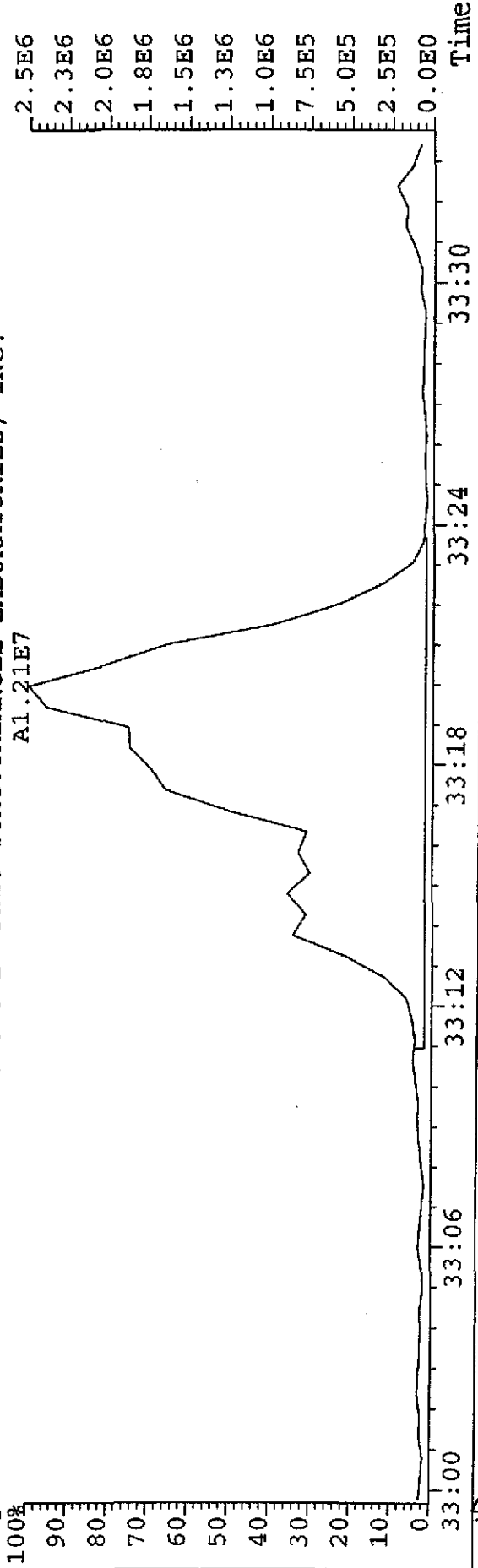


DEM 7110102

File:W1082 #1-423 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
389.8156 S:13 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.
A1.05E7



File:W1082 #1-423 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S
391.8127 S:13 F:3 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.
A1.21E7

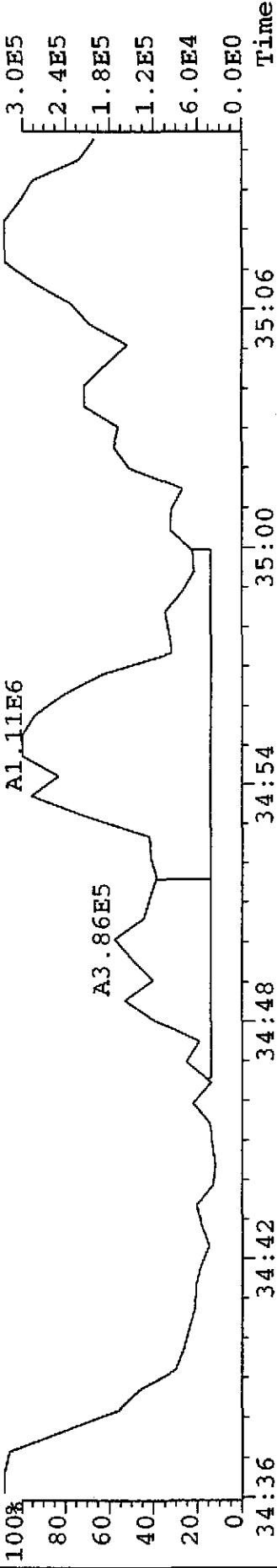


QEM 7118102

File:W1082 #1-423 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

389.8156 S:13 F:3 Exp:NDB5US

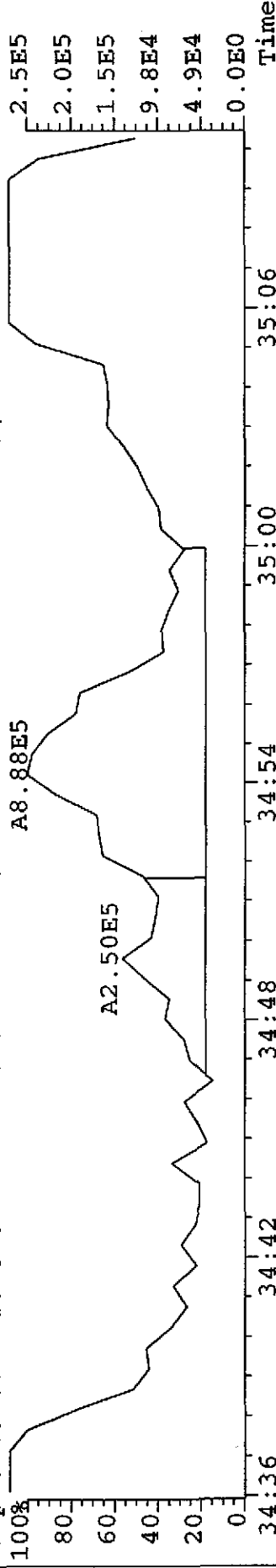
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-423 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

391.8127 S:13 F:3 Exp:NDB5US

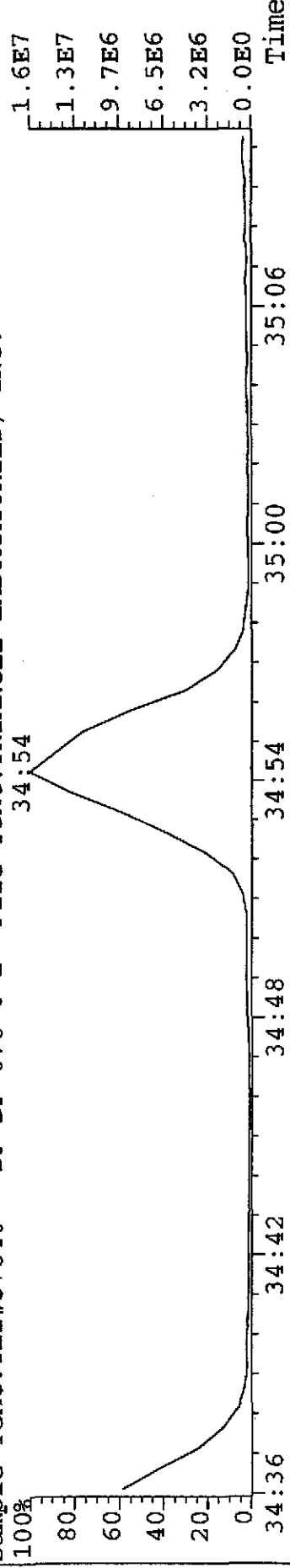
Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-423 Acq:18-JUL-2002 01:29:53 GC EI+ Voltage SIR 70S

401.8558 S:13 F:3 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-676 0-2' File Text:TRIANGLE LABORATORIES, INC.



InitialDate...

Data Review By:

[Signature] *[Date]*

Channel specific noise levels computed from 'NL' heights.

Page No. 1
07/18/2002

Listing of P022561B.dbf
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				0.793-1.106			
304-306	DC NL	Height	0.16	0.06	0.10				
	DC SN	18:54 RO	3.28	0.77					0.800
		19:00 RO	6.24	7.89	6.80	1.09			0.804
	DC SN	19:30 RO	0.26	0.48					0.825
		19:43	0.72	26.97	11.33	15.64			0.834
		19:55	0.75	10.65	4.56	6.09			0.843
		20:05	0.67	8.31	3.32	4.99			0.850
		20:11	0.71	17.66	7.32	10.34			0.854
		20:22 RO	0.90	2.32	1.10	1.22			0.862
		20:38	0.77	82.00	35.63	46.37			0.873
		20:49	0.74	57.40	24.46	32.94			0.881
		20:56 RO	0.62	8.40	3.21	5.19			0.886
		21:06	0.77	94.53	40.99	53.54			0.893
		21:15 RO	0.62	9.20	3.52	5.68			0.899
		21:38	0.77	47.99	20.91	27.08			0.915
		21:45	0.69	31.54	12.86	18.68			0.920
		22:00 RO	0.61	5.60	2.13	3.47			0.931
		22:08	0.75	63.51	27.24	36.27			0.937
		22:24	0.89	36.43	17.11	19.32			0.948
		22:40 RO	0.99	25.88	12.87	13.01			0.959
		22:46 RO	0.99	4.00	1.99	2.01			0.963
	DC SN	22:52 RO	0.38	0.29					0.968
		23:05	0.85	7.63	3.50	4.13			0.977
		23:31	0.73	9.16	3.85	5.31			0.995
		23:38	0.78	243.51	106.84	136.67	1.000	2378-TCDF	AN
		23:52	0.72	47.43	19.80	27.63			1.010
		24:08 RO	0.47	10.37	3.32	7.05			1.021
		24:18	0.78	150.11	65.81	84.30			1.028
		24:36	0.68	2.23	0.90	1.33			1.041
		24:45	0.68	0.32	0.13	0.19			1.047
		24:48 RO	0.54	1.34	0.47	0.87			1.049
		25:01	0.89	2.06	0.97	1.09			1.059
		25:09	0.65	7.30	2.88	4.42			1.064
		25:24	0.82	10.40	4.69	5.71			1.075
		25:37 RO	0.58	14.05	5.14	8.91			1.084
		25:50 RO	0.40	1.92	0.55	1.37			1.093
		25:55 RO	1.83	1.67	1.08	0.59			1.097
	DC WH	26:12	0.73	7.66					1.109
304-306		33 Peaks		1,049.78					

13C12-TCDF		0.65-0.89				0.958-1.042			
316-318	DC NL	Height	0.22	0.08	0.14				
	DC WL	18:43	0.79	0.25					0.792
	DC WL	19:12	0.73	19.00					0.812
	DC WL	19:41 RO	2.38	0.27					0.833
	DC WL	19:50 RO	1.32	0.44					0.839

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	19:57	RO	0.41	1.30			0.844	
DC	WL	20:07		0.74				0.851	
DC	WL	20:14	RO	1.13	0.32			0.856	
DC	WL	20:31	RO	1.50	0.85			0.868	
DC	WL	20:37	RO	0.14	0.84			0.872	
DC	WL	20:40		0.72	0.31			0.874	
DC	WL	20:53	RO	2.17	0.57			0.884	
DC	WL	20:56		0.88	0.79			0.886	
DC	WL	21:20	RO	0.36	0.34			0.903	
DC	WL	21:29		0.80	0.36			0.909	
DC	WL	21:32	RO	0.37	0.56			0.911	
DC	WL	21:41	RO	0.35	0.46			0.917	
DC	WL	21:54	RO	2.71	0.26			0.927	
DC	WL	22:07	RO	0.56	2.83			0.936	
DC	WL	22:22	RO	0.29	0.31			0.946	
DC	WL	22:29		0.70	0.90			0.951	
DC	WL	22:36	RO	1.09	0.67			0.956	
		22:41	RO	1.34	1.03	0.59	0.44	0.960	
		22:47		0.65	0.81	0.32	0.49	0.964	
		23:00	RO	2.17	2.09	1.43	0.66	0.973	
		23:10	RO	5.32	1.96	1.65	0.31	0.980	
		23:22	RO	3.90	2.89	2.30	0.59	0.989	
		23:29	RO	1.82	2.90	1.87	1.03	0.994	
		23:38		0.74	346.47	147.82	198.65	1.000	13C12-2378-TCDF ISO
			Height		81.00	34.62	46.38		
		23:48	RO	1.91	6.34	4.16	2.18	1.007	
		23:53		0.78	5.33	2.34	2.99	1.011	
		23:57	RO	0.45	5.65	1.74	3.91	1.013	
		24:07		0.69	8.62	3.51	5.11	1.020	
		24:18		0.73	56.39	23.75	32.64	1.028	
DC	SN	24:26	RO	0.42	0.54			1.034	
DC	SN	24:34	RO	0.48	0.31			1.039	
DC	WH	24:42	RO	1.00	0.26			1.045	
DC	WH	25:24	RO	0.26	1.08			1.075	
DC	WH	25:33		0.73	0.52			1.081	
DC	WH	25:36	RO	1.38	0.19			1.083	
DC	WH	25:45	RO	1.56	0.41			1.090	
DC	WH	25:52	RO	2.27	0.85			1.094	
DC	WH	26:11	RO	8.00	0.45			1.108	
DC	WH	26:21	RO	0.62	0.68			1.115	
DC	WH	26:28	RO	0.30	0.48			1.120	
316-318		12 Peaks			440.48				

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

13C12-TCDD		0.65-0.89		0.910-1.090	
332-334	DC NL	Height	0.34	0.28	0.06
	DC WL	19:50 RO	1.08		0.895
	DC SN	21:11 RO	1.16		0.956
	DC SN	21:33 RO	1.80		0.973
	DC SN	21:36 RO	1.91		0.975
		22:09	0.80	231.46	103.21
		Height		57.14	25.71
					128.25
					31.43
					1.000
					13C12-2378-TCDD IS1

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
					22:28		0.83	255.91		116.26		139.65	1.014		13C12-1234-TCDD	RS1	
DC	SN				23:40	RO	4.00	1.00					1.068				
					23:48	RO	0.97	1.48		0.73		0.75	1.074				
DC	WH				24:29	RO	0.33	0.57					1.105				
DC	WH				24:34	RO	2.95	0.83					1.109				
DC	WH				25:17	RO	4.20	0.26					1.141				
DC	WH				25:23	RO	4.42	1.41					1.146				
DC	WH				25:28	RO	3.39	3.29					1.150				
DC	WH				25:34	RO	10.85	3.08					1.154				
332-334							3 Peaks	488.85									

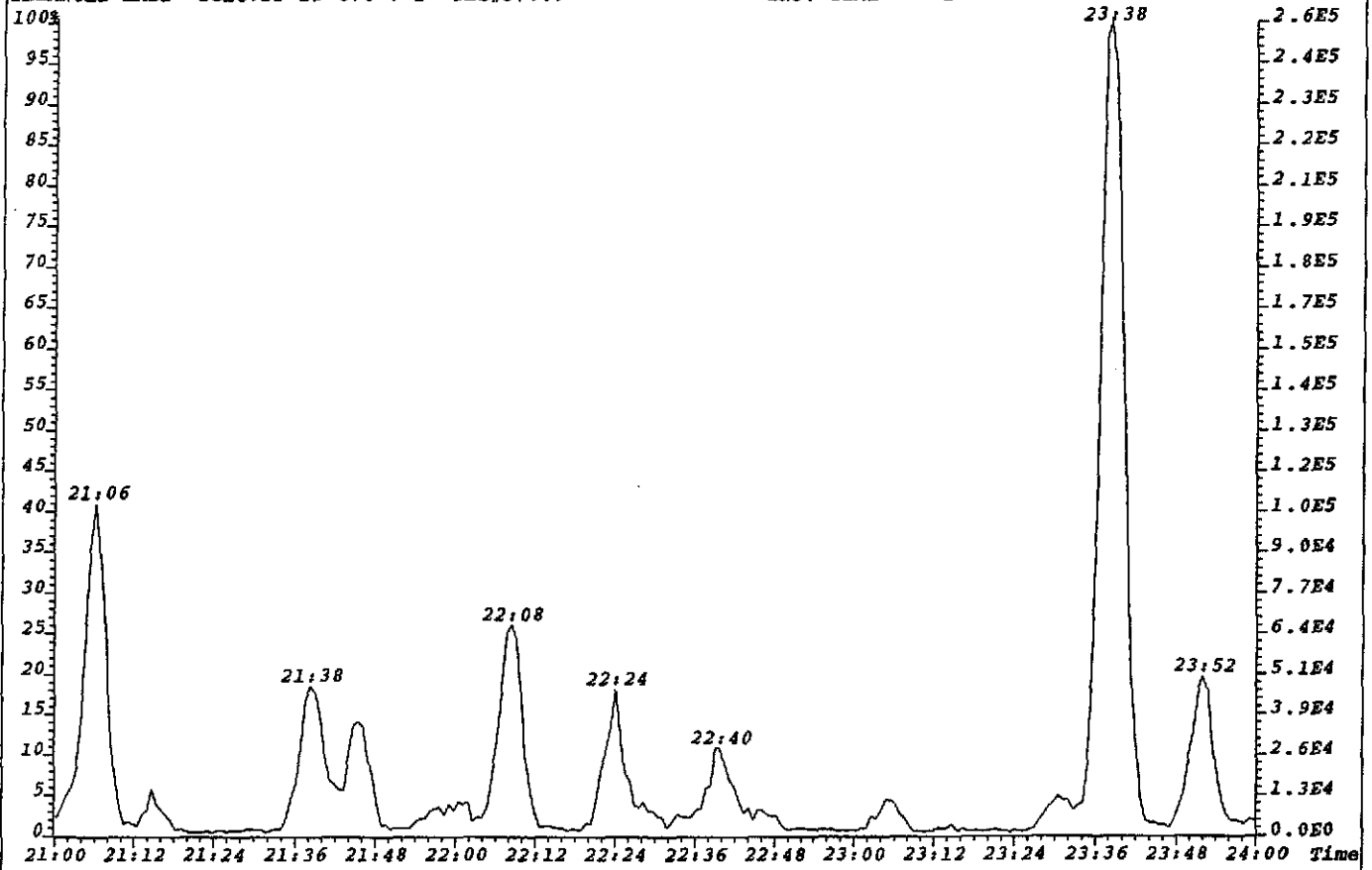
Column Description..... "Why" Code Description..... QC Log Desc.....

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 ***

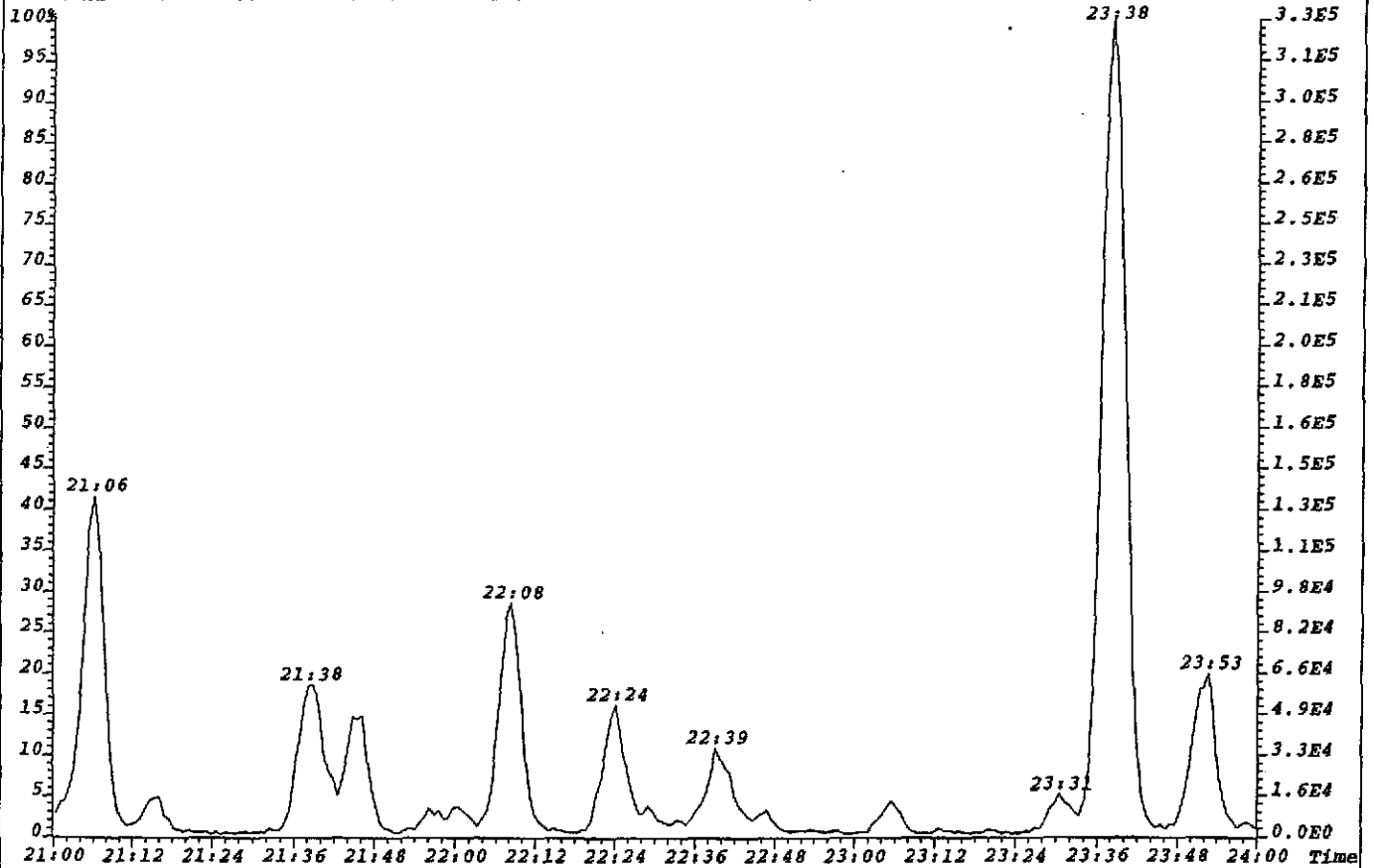
File: P022561 #1-3026 Acq: 18-JUL-2002 12:58:46 EI+ Voltage SIR 70P
303.9016 GC: DB225 Exp: none
TRIANGLE LABS Text: DF-DP-676 0-2' TLI#57840

INJ. TIME = 12:58

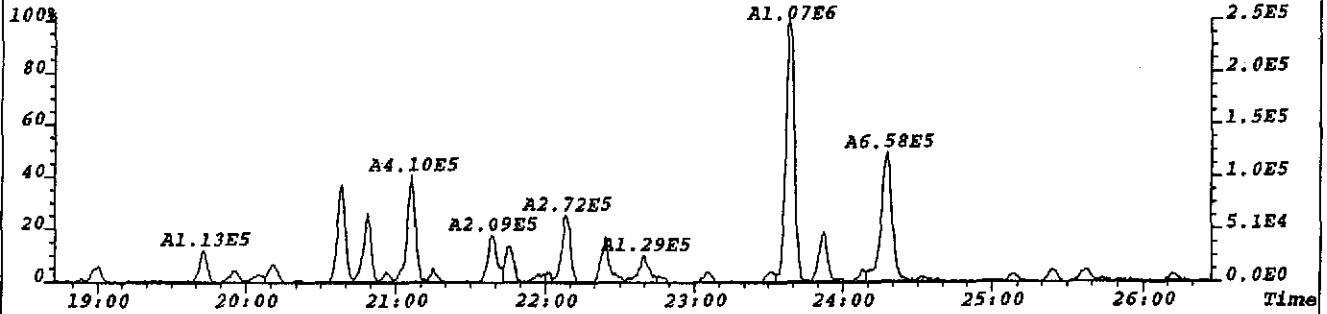


File: P022561 #1-3026 Acq: 18-JUL-2002 12:58:46 EI+ Voltage SIR 70P
305.8987 GC: DB225 Exp: none
TRIANGLE LABS Text: DF-DP-676 0-2' TLI#57840

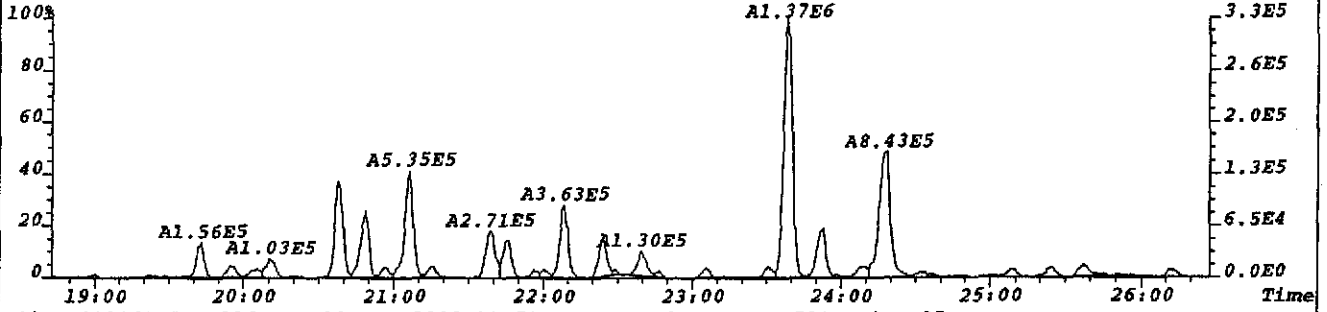
INJ. TIME = 12:58



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303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,300.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-676 0-2' TLI#57840 INJ. TIME = 12:58



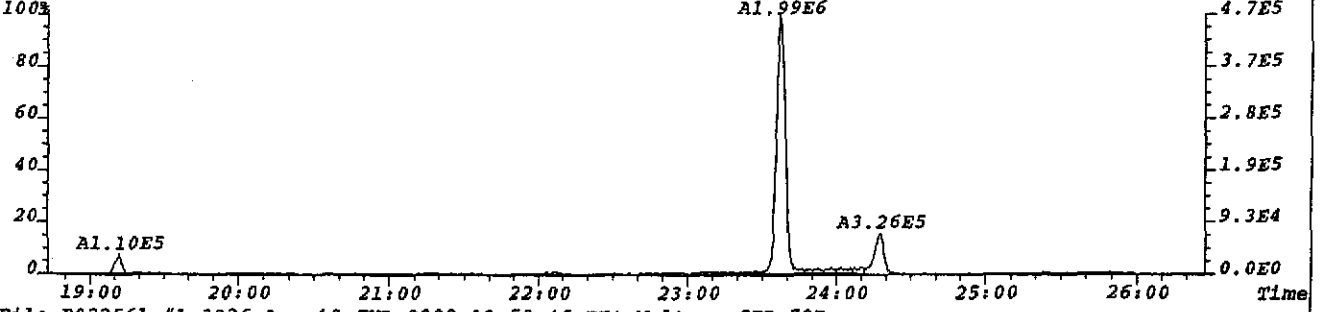
File:P022561 #1-3026 Acq:18-JUL-2002 12:58:46 EI+ Voltage SIR 70P Noise:121
305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,484.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-676 0-2' TLI#57840 INJ. TIME = 12:58



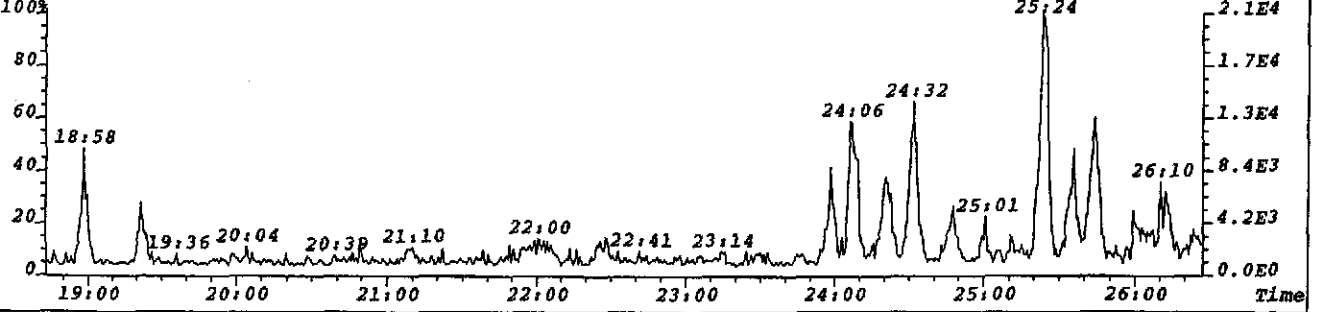
File:P022561 #1-3026 Acq:18-JUL-2002 12:58:46 EI+ Voltage SIR 70P Noise:95
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,380.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-676 0-2' TLI#57840 INJ. TIME = 12:58



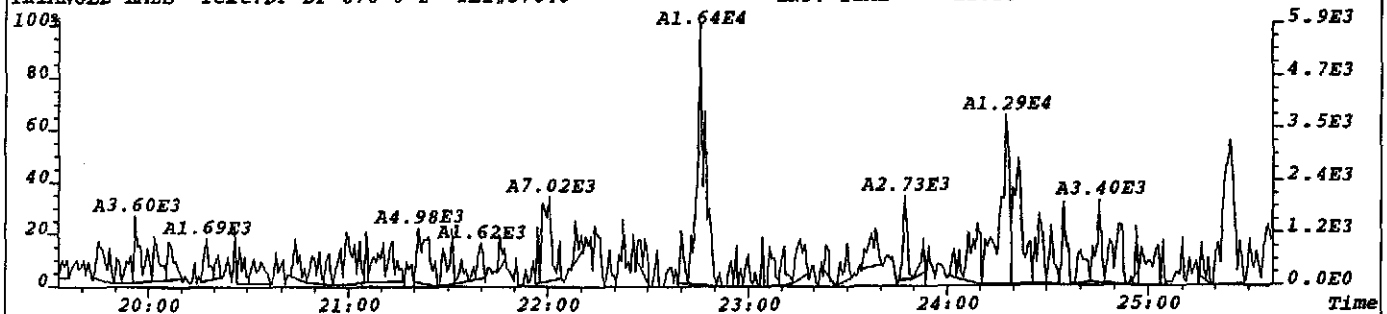
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317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,684.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-676 0-2' TLI#57840 INJ. TIME = 12:58



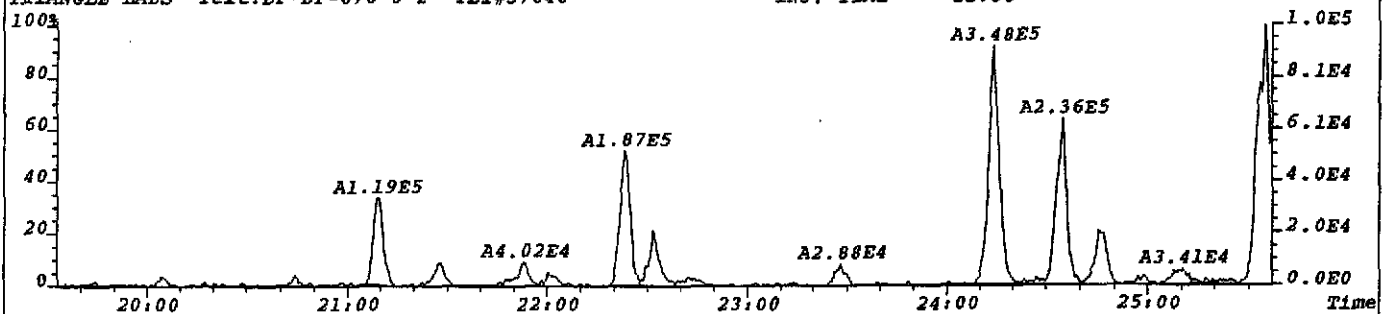
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375.8364 Exp:DB225
TRIANGLE LABS Text:DF-DP-676 0-2' TLI#57840 INJ. TIME = 12:58



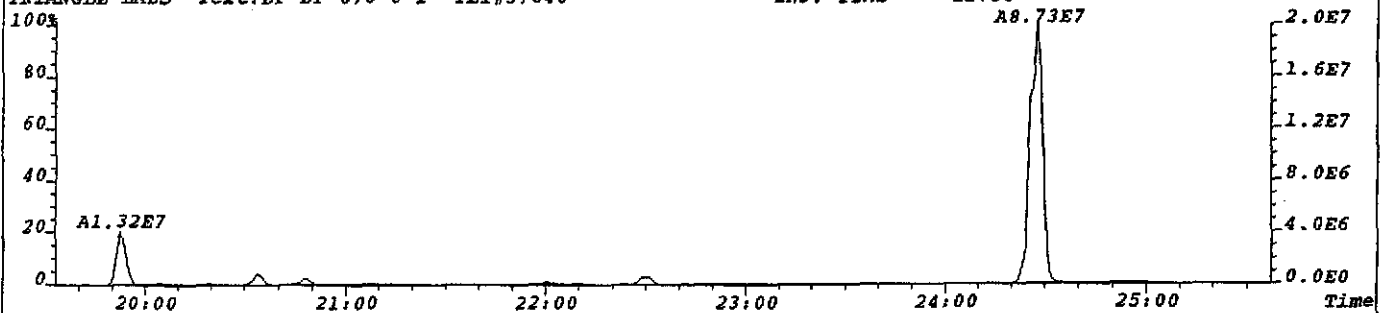
File:P022561 #1-3026 Acq:18-JUL-2002 12:58:46 EI+ Voltage SIR 70P Noise:119
319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,476.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-676 0-2' TLI#57840 INJ. TIME = 12:58



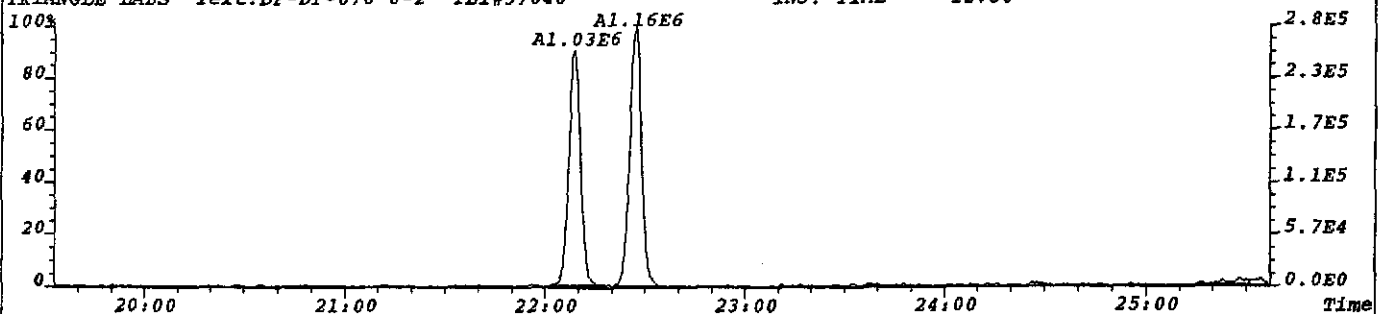
File:P022561 #1-3026 Acq:18-JUL-2002 12:58:46 EI+ Voltage SIR 70P Noise:89
321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,356.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-676 0-2' TLI#57840 INJ. TIME = 12:58



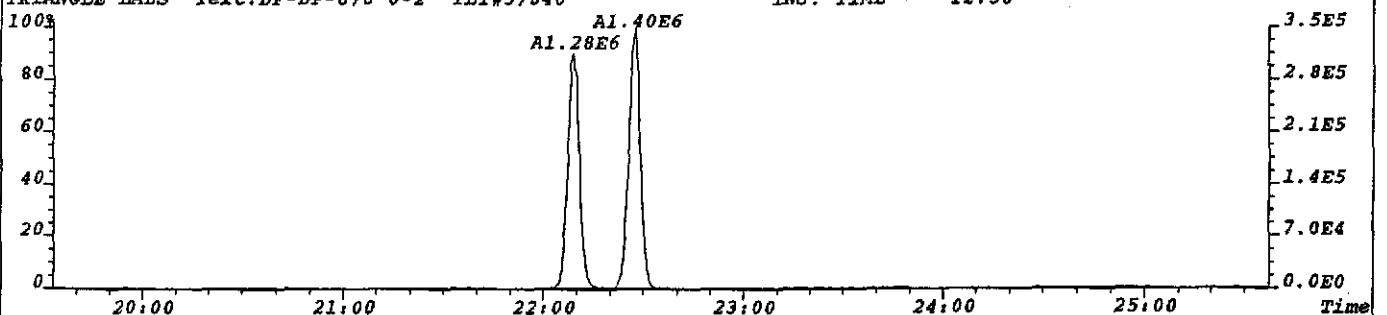
File:P022561 #1-3026 Acq:18-JUL-2002 12:58:46 EI+ Voltage SIR 70P Noise:96
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,384.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-676 0-2' TLI#57840 INJ. TIME = 12:58



File:P022561 #1-3026 Acq:18-JUL-2002 12:58:46 EI+ Voltage SIR 70P Noise:354
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1416.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-676 0-2' TLI#57840 INJ. TIME = 12:58



File:P022561 #1-3026 Acq:18-JUL-2002 12:58:46 EI+ Voltage SIR 70P Noise:80
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,320.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-676 0-2' TLI#57840 INJ. TIME = 12:58

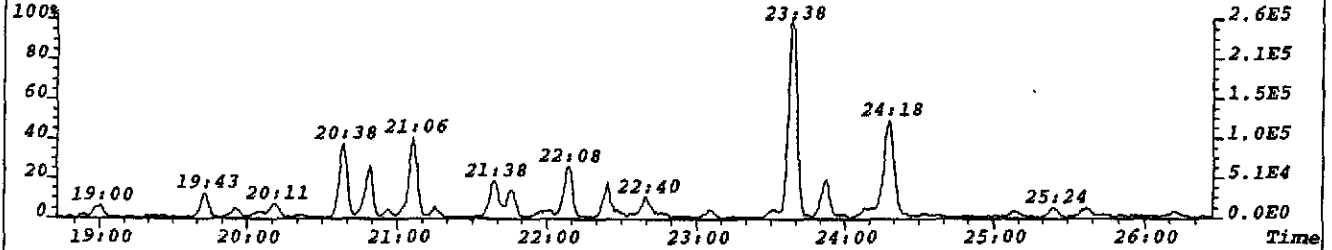


File:P022561 #1-3026 Acq:18-JUL-2002 12:58:46 EI+ Voltage SIR 70P

303.9016 Exp:DB225

TRIANGLE LABS Text:DF-DP-676 0-2' TLI#57840

INJ. TIME = 12:58



File:P022561 #1-3026 Acq:18-JUL-2002 12:58:46 EI+ Voltage SIR 70P

315.9419 Exp:DB225

TRIANGLE LABS Text:DF-DP-676 0-2' TLI#57840

INJ. TIME = 12:58

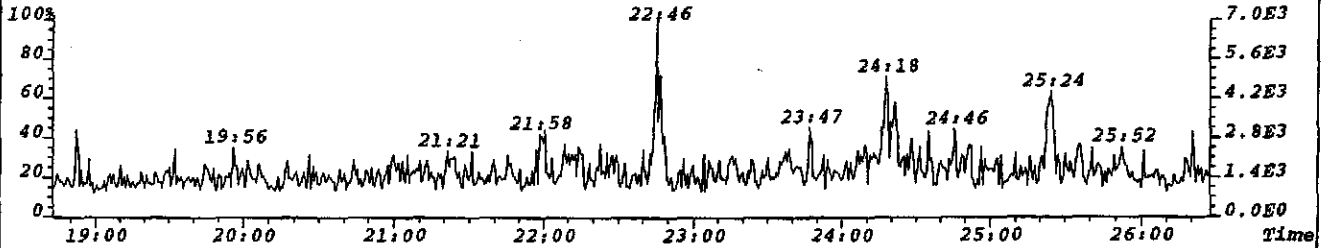


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319.8965 Exp:DB225

TRIANGLE LABS Text:DF-DP-676 0-2' TLI#57840

INJ. TIME = 12:58

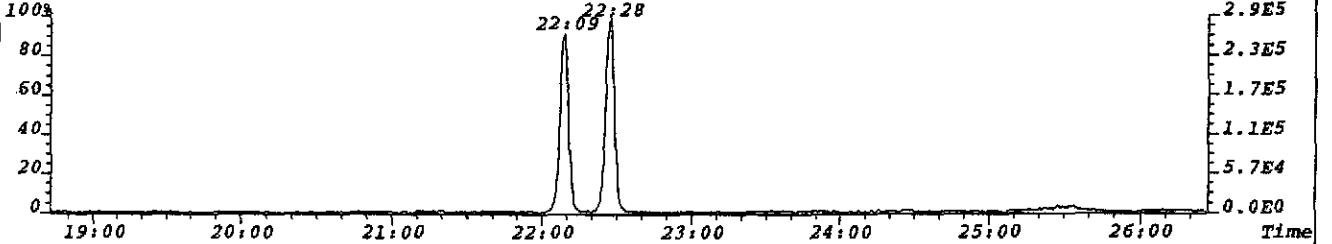


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331.9368 Exp:DB225

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INJ. TIME = 12:58

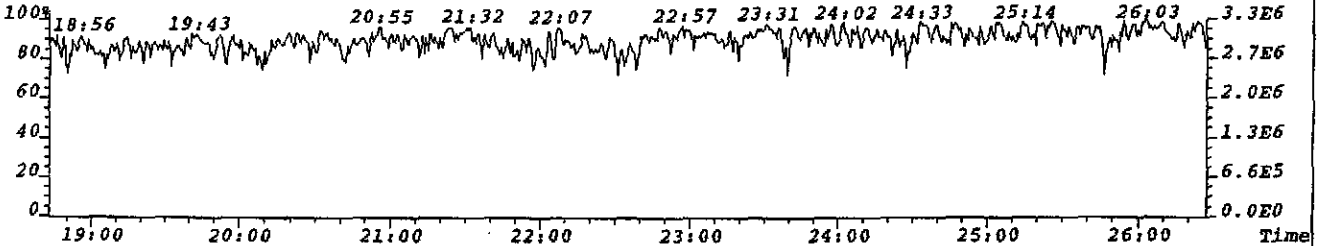


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292.9825 Exp:DB225

TRIANGLE LABS Text:DF-DP-676 0-2' TLI#57840

INJ. TIME = 12:58

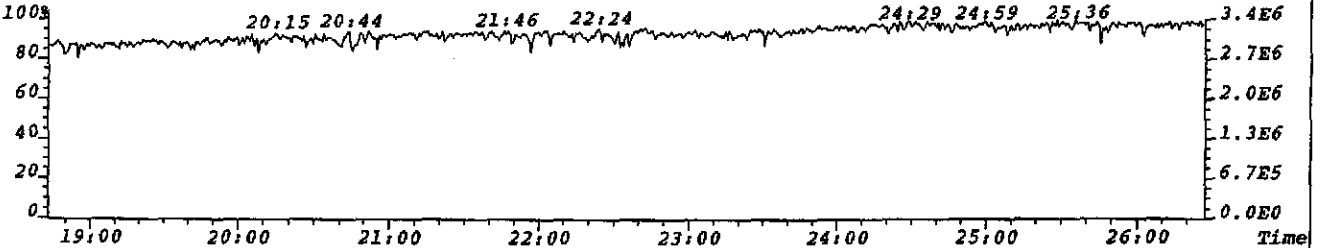


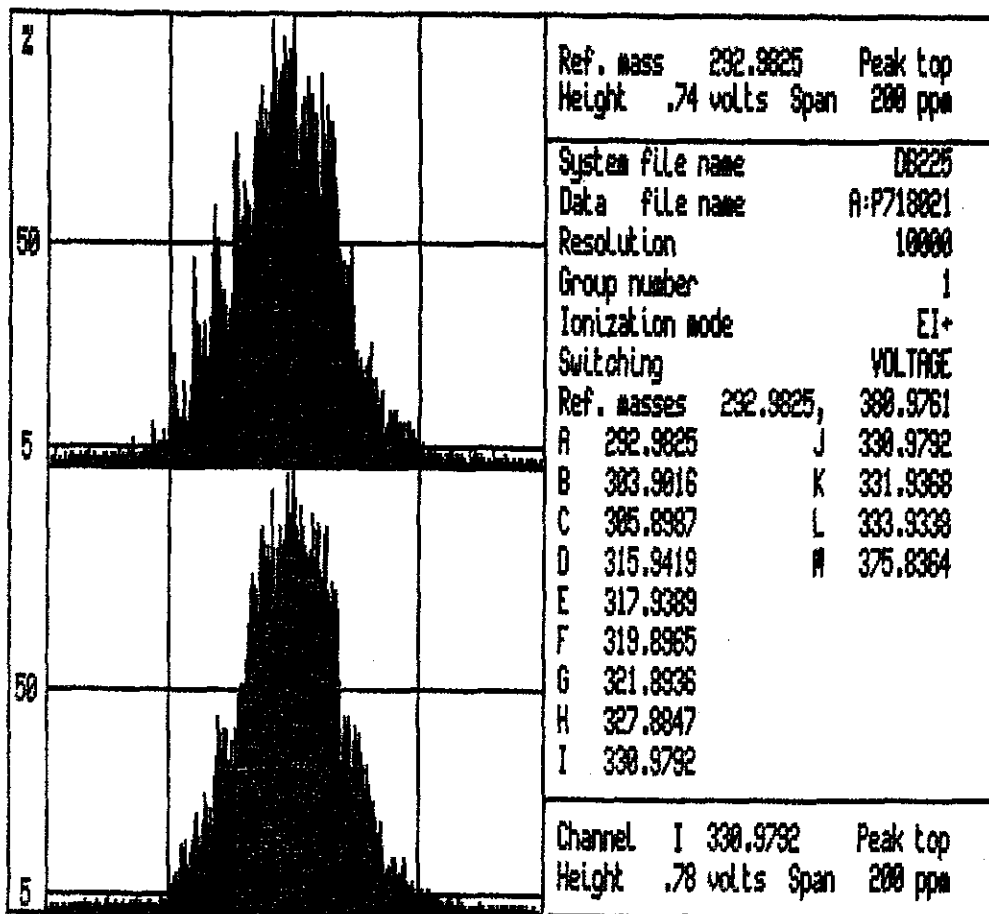
File:P022561 #1-3026 Acq:18-JUL-2002 12:58:46 EI+ Voltage SIR 70P

330.9792 Exp:DB225

TRIANGLE LABS Text:DF-DP-676 0-2' TLI#57840

INJ. TIME = 12:58





TLI Project: 57840
 Client Sample: DF-DP-642 0-2'

1613, Revision B PCDD/PCDF Analysis (c)
 Analysis File: W108214

Client Project:	Dioxin/Furan Analysis			Spike File:	SP161B2S
Sample Matrix:	SOLID	Date Received:	07/11/2002	ICal:	WF5614B
TLI ID:	330-27-12	Date Extracted:	07/12/2002	ConCal:	WB21081
		Date Analyzed:	07/18/2002		
Sample Size:	11.700 g	Dilution Factor:	n/a	% Moisture:	13.9
Dry Weight:	10.074 g	Blank File:	W108202	% Lipid:	n/a
GC Column:	DB-5	Analyst:	JLD	% Solids:	86.1

Analytes	Conc. (pg/g)	DL	Ratio	RT	RRT	Flags
2,3,7,8-TCDD	ND	7.9				—
1,2,3,7,8-PeCDD	ND	3.7				—
1,2,3,4,7,8-HxCDD	ND	4.6				—
1,2,3,6,7,8-HxCDD	ND	13.4				—
1,2,3,7,8,9-HxCDD	ND	7.2				—
1,2,3,4,6,7,8-HpCDD	ND	63.0				—
1,2,3,4,6,7,8,9-OCDD	3150		0.86	41:41	1.000	—
2,3,7,8-TCDF	598		0.76	26:48	1.001	E_
1,2,3,7,8-PeCDF	206		1.51	30:32	1.001	—
2,3,4,7,8-PeCDF	588		1.48	31:12	1.001	—
1,2,3,4,7,8-HxCDF	1680		1.28	33:53	1.000	—
1,2,3,6,7,8-HxCDF	219		1.26	33:59	1.000	—
2,3,4,6,7,8-HxCDF	239		1.29	34:28	1.000	—
1,2,3,7,8,9-HxCDF	6.2		1.36	35:15	1.000	—
1,2,3,4,6,7,8-HpCDF	2600		1.06	36:55	1.000	E_
1,2,3,4,7,8,9-HpCDF	480		1.09	38:28	1.000	—
1,2,3,4,6,7,8,9-OCDF	3520		0.86	41:54	1.006	—

Totals	Conc. (pg/g)	Number	DL	Flags
Total TCDD	10.8	3		—
Total PeCDD	ND		5890	E_
Total HxCDD	4.2	1		—
Total HpCDD	60.9	1		—
Total TCDF	2140	14		E_
Total PeCDF	3510	22		—
Total HxCDF	4060	13		—
Total HpCDF	5320	4		E_

TLI Project: **57840**
 Client Sample: **DF-DP-642 0-2'**

Toxicity Equivalents Report
 Analysis File: **W108214**

Client Project:	Dioxin/Furan Analysis		
Sample Matrix:	SOLID	Date Received:	07/11/02
TLI ID:	330-27-12	Date Extracted:	07/12/02
		Date Analyzed:	07/18/02
Sample Size:	11.700 g	Dilution Factor:	1
Dry Weight:	10.074 g	Blank File:	W108202
GC Column:	DB-5	Analyst:	JLD
		% Moisture:	13.9
		% Lipid:	n/a
		% Solids:	86.1

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	{7.9}	x	1	=	7.9
1,2,3,7,8-PeCDD	{3.7}	x	0.5	=	1.9
1,2,3,4,7,8-HxCDD	{4.6}	x	0.1	=	0.46
1,2,3,6,7,8-HxCDD	{13.4}	x	0.1	=	1.34
1,2,3,7,8,9-HxCDD	{7.2}	x	0.1	=	0.72
1,2,3,4,6,7,8-HpCDD	{63.0}	x	0.01	=	0.630
1,2,3,4,6,7,8,9-OCDD	3150	x	0.001	=	3.150
TOTAL PCDD					16.1
2,3,7,8-TCDF	519	x	0.1	=	51.9
1,2,3,7,8-PeCDF	206	x	0.05	=	10.3
2,3,4,7,8-PeCDF	588	x	0.5	=	294
1,2,3,4,7,8-HxCDF	1680	x	0.1	=	168.0
1,2,3,6,7,8-HxCDF	219	x	0.1	=	21.9
2,3,4,6,7,8-HxCDF	239	x	0.1	=	23.9
1,2,3,7,8,9-HxCDF	6.2	x	0.1	=	0.62
1,2,3,4,6,7,8-HpCDF	2600	x	0.01	=	26.00
1,2,3,4,7,8,9-HpCDF	480	x	0.01	=	4.80
1,2,3,4,6,7,8,9-OCDF	3520	x	0.001	=	3.520
TOTAL PCDF					605

Total EPA TEFs, 1989a: 621 pg/g

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

InitialDate...

Data Review By:

KLU Z. Bal

Channel specific noise levels computed from 'NL' heights.

Page No. 1
07/18/2002

Listing of W108214B.dbf
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.

		0.65-0.89				0.877-1.070			
		Height				Height			
TCDF				20.47		10.79		9.68	
304-306	DC NL								0.876
	DC WL	23:28	0.75	636.14			767.48		0.882
		23:38	0.80	1,378.09		610.61		86.23	0.902
		24:10	RO 0.59	136.88		50.65			0.909
		24:21	0.80	2,609.46		1,161.56		1,447.90	0.918
		24:35	0.77	1,888.66		819.79		1,068.87	0.930
		24:55	0.77	6,851.21		2,977.92		3,873.29	0.942
		25:13	0.73	15,811.25		6,697.51		9,113.74	0.955
		25:34	0.75	17,157.74		7,328.03		9,829.71	0.965
		25:50	0.74	10,708.26		4,552.93		6,155.33	0.975
		26:07	0.76	9,495.31		4,094.09		5,401.22	0.986
		26:25	0.74	17,502.10		7,453.20		10,048.90	0.995
		26:39	0.74	5,163.12		2,189.14		2,973.98	1.001
		26:48	0.76	43,566.40		18,778.00		24,788.40	1.016
		27:12	0.74	15,674.21		6,682.04		8,992.17	1.024
		27:26	0.74	1,842.81		783.78		1,059.03	1.041
		27:53	0.77	6,124.55		2,667.17		3,457.38	1.049
		28:06	RO 1.73	136.17		86.23		49.94	1.061
		28:25	RO 0.92	598.27		287.03		311.24	1.070
	D	D	WH	28:39	0.87	107.77			
304-306			17 Peaks			156,644.49			

		0.65-0.89				0.944-1.133			
		Height				Height			
13C12-TCDF				9.38		3.56		5.82	
316-318	DC NL								0.873
	DC WL	23:23	RO 0.61	482.86					0.894
	DC WL	23:56	RO 0.61	26.29					0.909
	DC WL	24:20	RO 3.80	32.38					0.912
	DC WL	24:26	RO 0.54	68.86					0.920
	DC WL	24:39	RO 0.93	22.86					0.941
	DC WL	25:12	RO 0.40	64.54					0.956
		25:37	RO 0.57	117.87		42.83		75.04	0.965
		25:50	0.74	62.40		26.53		35.87	0.972
		26:02	RO 0.54	104.18		36.59		67.59	0.986
		26:25	0.83	121.86		55.17		66.69	1.000
		26:47	0.74	12,635.78		5,354.77		7,281.01	13C12-2378-TCDF ISO
			Height	3,710.34		1,579.94		2,130.40	
		27:03	RO 0.45	56.62		17.51		39.11	1.010
	DC	SN	27:16	RO 0.25		62.93			1.018
			27:32	RO 0.54		138.27		48.52	89.75
			27:52	RO 1.04		248.31		126.65	121.66
			28:00	RO 0.37		200.99		54.61	146.38
			28:15	RO 1.08		125.80		65.18	60.62
			28:24	RO 0.97		38.00		18.71	19.29
	DC	SN	28:32	RO 0.34		31.22			1.065
			28:40	RO 0.42		42.49		12.55	29.94
316-318			12 Peaks			13,892.57			

Compound/

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

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

TCDD		0.65-0.89			0.903-1.042		
320-322	DC NL	Height	6.58	3.00	3.58		
	DC WL	24:36 RO 2.87	16.79			0.896	
		25:05 RO 1.21	61.17	33.49	27.68	0.914	
D	D SN	25:27 0.70	51.54			0.927	
		26:00 RO 0.10	457.27	42.99	414.28	0.947	
A		26:20 0.85	190.40	87.40	103.00	0.959	
		26:40 RO 0.01	1,519.50	21.69	1,497.81	0.971	
		26:47 RO 0.02	612.27	12.80	599.47	0.976	
A		27:13 0.65	174.60	68.60	106.00	0.991	
		27:22 RO 0.13	456.20	53.91	402.29	0.997	2378-TCDD AN
		27:48 RO 0.34	419.41	107.56	311.85	1.013	
		27:57 RO 0.97	383.86	188.64	195.22	1.018	
A		28:18 RO 0.38	207.40	57.40	150.00	1.031	
		28:22 RO 0.03	862.89	24.63	838.26	1.033	
		28:32 0.81	261.18	116.69	144.49	1.039	
	DC WH	28:40 RO 0.19	229.39			1.044	
320-322		12 Peaks	5,606.15				

37C1-TCDD		0.926-1.074					
328	DC NL	Height	14.84	14.84			
	DC WL	24:36	22,628.00			0.896	
	DC WL	25:08	637.55			0.916	
		25:50	1,293.40	1,293.40		0.941	
		26:07	40,580.70	40,580.70		0.951	
		26:32	1,433.78	1,433.78		0.967	
		26:39	874.03	874.03		0.971	
		27:02	567.20	567.20		0.985	
		27:20	4,392.19	4,392.19		0.996	
		27:28	1,183.11	1,183.11		1.001	37C1-TCDD CLS
		27:49	698,001.00	698,001.00		1.013	
		28:08	1,556.72	1,556.72		1.025	
		28:23	581.96	581.96		1.034	
		28:40	6,088.46	6,088.46		1.044	
328		11 Peaks	756,552.55				

13C12-TCDD		0.65-0.89			0.920-1.067		
332-334	DC NL	Height	9.79	6.91	2.88		
		26:03 RO 1.21	71.09	38.96	32.13	0.949	
		27:16 0.81	17,025.42	7,611.08	9,414.34	0.993	13C12-1234-TCDD RS1
		27:27 0.78	10,400.48	4,569.22	5,831.26	1.000	13C12-2378-TCDD IS1
		Height	3,343.83	1,457.56	1,886.27		
	DC SN	27:40 RO 1.61	19.99			1.008	
		27:51 RO 1.70	413.18	260.10	153.08	1.015	
		28:41 RO 1.61	52.32	32.24	20.08	1.045	
332-334		5 Peaks	27,962.49				

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

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

PeCDF		1.32-1.78				0.909-1.036			
340-342		DC	NL	Height	7.46	4.39	3.07		
		DC	WL	28:21	1.74	354.47		0.909	
				28:29	1.47	2,673.82	1,590.58	1,083.24	0.913
				28:39	1.51	4,408.36	2,655.36	1,753.00	0.919
				28:52	1.48	4,058.50	2,420.61	1,637.89	0.926
				29:08	1.62	249.79	154.42	95.37	0.934
				29:16	1.50	3,554.95	2,130.66	1,424.29	0.939
				29:34	1.54	2,262.06	1,370.83	891.23	0.948
				29:43	1.47	54,640.60	32,485.50	22,155.10	0.953
				29:52	1.49	24,218.88	14,487.80	9,731.08	0.958
				30:01	1.51	8,445.27	5,086.05	3,359.22	0.963
				30:10	1.49	3,347.27	2,001.35	1,345.92	0.967
				30:16	1.53	5,694.66	3,440.28	2,254.38	0.971
				30:27	1.48	24,800.00	14,800.00	10,000.00	0.998
MN				30:32	1.51	13,440.00	8,090.00	5,350.00	1.001
AN				30:41	1.54	4,533.89	2,748.01	1,785.88	0.984
				30:48	1.47	12,622.35	7,512.97	5,109.38	0.988
				31:12	1.48	35,241.40	21,053.20	14,188.20	1.001
				31:20	1.52	12,030.21	7,259.56	4,770.65	1.005
				31:29	1.68	407.26	255.09	152.17	1.010
				31:39	RO 2.70	603.51	440.59	162.92	1.015
				31:46	1.64	467.43	290.21	177.22	1.019
		X		31:53	1.44	274.67	162.17	112.50	1.022
				31:59	1.48	751.59	448.28	303.31	1.026
				32:08	1.63	543.07	336.24	206.83	1.030
				32:35	1.50	393.23			1.045
		DC	WH	32:35	1.50	393.23			1.045
340-342				23 Peaks		219,269.54			

13C12-PeCDF		1.32-1.78				0.806-1.128			
352-354		DC	NL	Height	4.35	1.64	2.71		
				28:22	RO 1.80	270.40	173.67	96.73	0.910
				28:28	RO 0.42	109.94	32.75	77.19	0.913
				28:40	RO 0.32	31.75	7.71	24.04	0.919
				28:56	RO 0.63	63.42	24.62	38.80	0.928
				29:39	RO 0.63	238.07	92.10	145.97	0.951
				30:22	RO 0.43	44.10	13.26	30.84	0.974
N				30:31	1.49	10,641.37	6,369.21	4,272.16	1.000
						3,257.83	1,958.71	1,299.12	
N				30:41	RO 0.16	162.83	22.82	140.01	0.984
				30:47	1.44	164.62	97.16	67.46	0.987
N				31:11	1.48	10,015.74	5,980.76	4,034.98	1.000
						3,230.94	1,926.61	1,304.33	
N				31:21	RO 0.71	68.94	28.66	40.28	1.005
				31:30	1.58	651.65	399.21	252.44	1.010
				31:46	RO 0.66	132.38	52.64	79.74	1.019
				31:52	1.38	122.70	71.09	51.61	1.022
				32:26	RO 4.19	315.22	254.51	60.71	1.040
352-354				15 Peaks		23,033.13			

----- Above: PeCDF / PeCDD 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.

PeCDD		1.32-1.78				0.939-1.021			
356-358		DC	NL	Height					
				29:59 RO	0.03	2,536.04	64.04	2,472.00	0.952
				30:10 RO	0.12	222.36	24.02	198.34	0.958
				30:38 RO	1.00	145.79	72.97	72.82	0.972
				30:59 RO	1.28	301.51	169.44	132.07	0.984
				31:20 RO	0.00	153,148.51	57.51	153,091.00	0.995
AN				31:30 RO	1.79	99.70	64.00	35.70	1.000 12378-PeCDD
				32:00 RO	0.52	1,148.46	394.86	753.60	1.016
		DC	WH	32:13 RO	0.61	1,174.92			1.023
356-358				7 Peaks		157,602.37			

13C12-PeCDD		1.32-1.78				0.734-1.053			
368-370		DC	NL	Height					
				29:44 RO	4.14	61.76	49.74	12.02	0.944
				30:03 RO	3.34	17.93	13.80	4.13	0.954
				30:36 RO	0.44	49.12	14.91	34.21	0.971
				31:20 RO	4.67	301.20	248.08	53.12	0.995
N				31:30	1.64	4,192.85	2,605.17	1,587.68	1.000 13C12-PeCDD 123 IS4
				Height		1,436.51	892.72	543.79	
				31:38	1.68	35.21	22.08	13.13	1.004
N				31:44 RO	1.12	54.26	28.71	25.55	1.007
				32:06 RO	0.78	50.42	22.09	28.33	1.019
368-370				8 Peaks		4,762.75			

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

HxCDF		1.05-1.43				0.929-1.007			
374-376		DC	NL	Height					
				32:49	1.08	174.26	90.33	83.93	0.931
				32:57	1.28	5,478.02	3,072.76	2,405.26	0.935
				33:05	1.28	37,264.20	20,912.00	16,352.20	0.939
				33:12	1.24	2,043.29	1,130.83	912.46	0.942
				33:22	1.19	1,200.71	652.00	548.71	0.947
				33:32	1.26	13,300.68	7,425.40	5,875.28	0.952
				33:43	1.29	189.40	106.79	82.61	0.957
				33:53	1.28	60,894.10	34,243.50	26,650.60	1.000 123478-HxCDF
				33:59	1.26	8,385.57	4,677.74	3,707.83	1.000 123678-HxCDF
			RO	34:06	1.51	252.92	152.25	100.67	0.968
				34:16	1.31	2,766.95	1,567.59	1,199.36	0.973
				34:28	1.29	7,283.55	4,101.95	3,181.60	1.000 234678-HxCDF
			RO	34:56	2.36	819.87	576.12	243.75	0.991
AN				35:15	1.36	187.20	108.00	79.20	1.000 123789-HxCDF
M				35:19	1.36	2,224.00	1,280.00	944.00	1.002
374-376				15 Peaks		142,464.72			

13C12-HxCDF		0.43-0.59				0.879-1.106			
384-386		DC	NL	Height					
				32:49	0.52	436.85	31.72	39.47	
				32:55	0.55	450.71	149.54	287.31	0.931
				33:05	0.54	1,639.27	576.90	290.67	0.934
				33:14	0.49	714.30	233.36	1,062.37	0.939
								480.94	0.943

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.
				33:18		0.56	316.70	113.36	203.34	0.945			
				33:47	RO	0.89	207.11			0.959			
N				33:53		0.53	5,777.77	1,993.00	3,784.77	1.000	13C12-HxCDF	478	IS5
							Height	2,048.49	692.67	1,355.82			
N				33:58		0.55	5,891.37	2,098.47	3,792.90	1.000	13C12-HxCDF	678	IS6
							Height	1,970.56	700.57	1,269.99			
N				34:09	RO	1.41	537.78	314.23	223.55	0.969			
N	DC		SN	34:19	RO	0.33	333.02			0.974			
N				34:28		0.53	5,034.01	1,739.52	3,294.49	1.000	13C12-HxCDF	234	IS7
							Height	1,604.51	542.35	1,062.16			
N				34:35	RO	1.16	571.97	306.98	264.99	0.982			
N				35:14	RO	0.60	4,764.36	1,783.16	2,981.20	1.000	13C12-HxCDF	789	IS8
							Height	1,472.87	532.30	940.57			
N				35:34	RO	1.49	482.41	289.05	193.36	1.009			
	DC	SN		35:41	RO	0.62	219.28			1.013			
384-386				12 Peaks			26,617.50						

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

HxCDD			1.05-1.43			0.959-1.013	
390-392	DC	NL	Height	57.08	28.25	28.83	
A			33:26	1.20	95.50	52.10	43.40 0.965
			34:03	RO 0.37	1,138.36	309.44	828.92 0.983
			34:09	RO 1.59	199.89	122.82	77.07 0.986
AN			34:34	RO 1.56	108.30	66.00	42.30 1.000 123478-HxCDD AN
M			34:40	RO 0.79	290.00	128.00	162.00 1.000 123678-HxCDD AN
A			34:46	RO 0.62	285.00	109.00	176.00 1.003
AN			34:59	RO 0.90	165.60	78.50	87.10 1.010 123789-HxCDD AN
	DC	WH	35:13	RO 0.81	333.23		1.016
390-392			7 Peaks		2,282.65		

13C12-HxCDD			1.05-1.43			0.983-1.041	
402-404	DC	NL	Height	41.46	21.99	19.47	
	DC	SN	33:42	RO 0.03	89.26		0.975
	DC	SN	33:49	RO 2.02	52.78		0.978
	DC	SN	34:21	RO 0.68	63.34		0.994
N			34:34	1.17	3,983.05	2,143.97	1,839.08 1.000 13C12-HxCDD 478 IS9
				Height	1,330.68	719.27	611.41
N			34:39	1.20	3,925.83	2,144.38	1,781.45 1.000 13C12-HxCDD 678 IS10
				Height	1,317.90	728.94	588.96
N			34:59	1.20	7,433.09	4,061.97	3,371.12 1.012 13C12-HxCDD 789 RS2
			35:10	RO 0.56	323.51	116.79	206.72 1.017
	DC	SN	35:23	1.18	68.88		1.024
402-404			4 Peaks		15,665.48		

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

HpCDF			0.88-1.20			0.955-1.004	
408-410	DC	NL	Height	22.21	13.11	9.10	
			36:55	1.06	40,616.70	20,899.10	19,717.60 1.000 1234678-HpCDF AN E
			37:11	1.10	1,753.02	919.89	833.13 0.967
			37:20	1.09	34,478.40	17,985.70	16,492.70 0.971

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.

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags		
408-410	DC	SN			38:28		1.09	7,960.87	4,151.66	3,809.21	1.000	1234789-HpCDF	AN			
					38:40		1.20	56.97		1.005						
					4 Peaks			84,808.99								
													0.37-0.51	0.856-1.143		
418-420	DC	NL			Height			38.78	15.86	22.92						
					36:54			0.48	2,082.00	672.00	1,410.00	1.000	13C12-HpCDF	678	IS11	
	NM			Height			753.72	226.28	527.44							
				37:13			RO	0.99	246.07	122.49	123.58	0.968				
				37:20			RO	0.87	383.87	178.95	204.92	0.971				
	N			37:56			RO	1.34	473.44	270.93	202.51	0.986				
				DC	SN	38:11			RO	1.28	145.02		0.993			
						38:28			RO	0.52	2,212.40	757.33	1,455.07	1.000	13C12-HpCDF	789
	N			Height			501.72	155.66	346.06							
				38:45			RO	1.10	319.71	167.16	152.55	1.007				
DC				SN	38:53			RO	0.54	54.39		1.011				
	6 Peaks				5,717.49											

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

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
424-426	DC	NL			0.88-1.20			0.975-1.005						
					Height			17.58	8.36	9.22				
	DC	WL			36:55			RO	0.78	54.63		0.973		
					37:12				1.08	924.83	479.33	445.50	0.980	
	DC	SN			37:20			RO	3.37	88.66		0.984		
					37:58			RO	1.26	956.39	533.74	422.65	1.000	1234678-HpCDD
DC	SN			38:12			RO	3.08	61.70		1.007			
				2 Peaks				1,881.22						

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags		
436-438	DC	NL			0.88-1.20			0.868-1.079								
					Height			125.17	83.25	41.92						
	N				37:57			RO	1.30	2,986.20	1,689.88	1,296.32	1.000	13C12-HpCDD	678	IS13
					Height			622.92	301.75	321.17						
	N				38:08			RO	2.56	1,454.43	1,045.50	408.93	1.005			
					DC	SN	38:15			RO	1.77	186.20		1.008		
38:25			RO	2.07			252.67		1.012							
2 Peaks				4,440.63												

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

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags	
442-444	DC	NL			0.76-1.02			0.952-1.048							
					Height			6.99	3.73	3.26					
	DC	WL			37:11			RO	0.77	71.52		0.892			
					41:01			RO	2.15	130.34	89.00	41.34	0.984		
	DC	WH			41:54			RO	0.86	36,308.20	16,805.80	19,502.40	1.006	OCDF	AN
					42:46			RO	3.25	77.65	59.40	18.25	1.026		
					43:53			RO	2.38	85.42		1.053			
DC	WH			44:10			RO	2.38	72.07		1.060				
				3 Peaks				36,516.19							

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
458-460	DC	NL			0.76-1.02			0.952-1.048						
					Height			4.34	2.15	2.19				

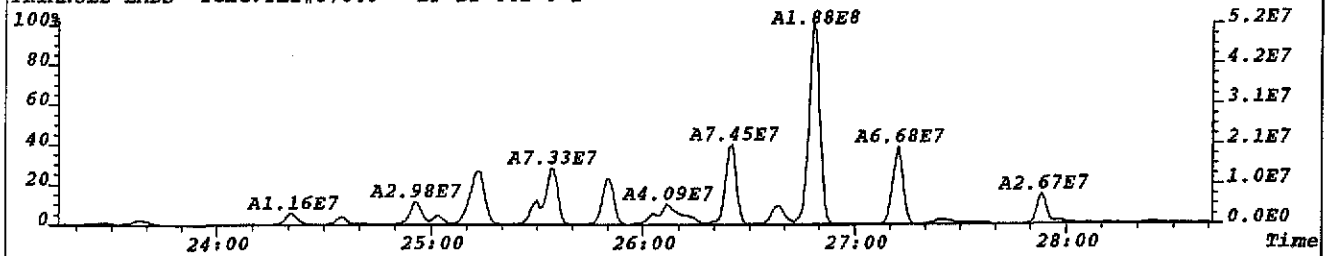
Compound/ M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				41:41		0.86	25,710.80	11,857.40	13,853.40	1.000	OCDD		AN
				41:53	RO	1.35	72.66	41.74	30.92	1.005			
458-460				2 Peaks			25,783.46						
13C12-OCDD				0.76-1.02						0.996-1.004			
470-472	DC	NL		Height			41.10	16.65	24.45				
	DC	NL		41:29	RO	1.18	244.74			0.996			
	KN			41:40		0.93	3,086.58	1,483.18	1,603.40	1.000	13C12-OCDD		IS14
				Height			623.49	303.36	320.13				
	N	DC	WH	42:04	RO	1.61	1,570.90			1.010			
470-472				1 Peak			3,086.58						

Column Description..... "Why" Code Description..... QC Log Desc.....

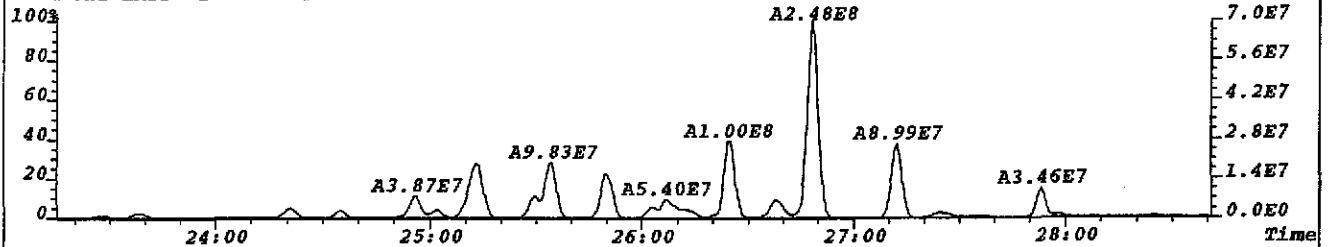
M_Z	-Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT.	-Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1	-Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK	-RO=Ratio Outside Limits	<M-Below Method Detection Limit	T-Time Changed
Rel.RT	-Relative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

*** End of Report ***

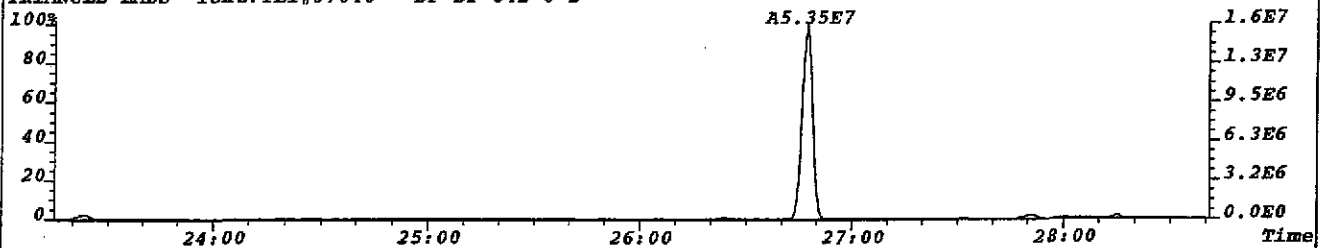
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303.9016 S:14 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,53964.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



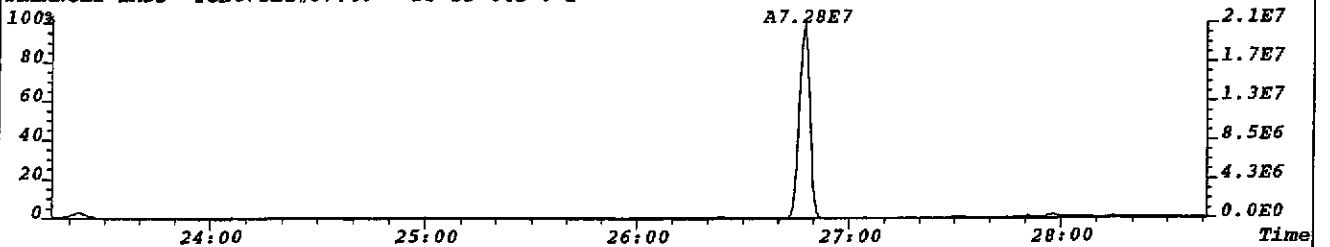
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305.8987 S:14 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,48420.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



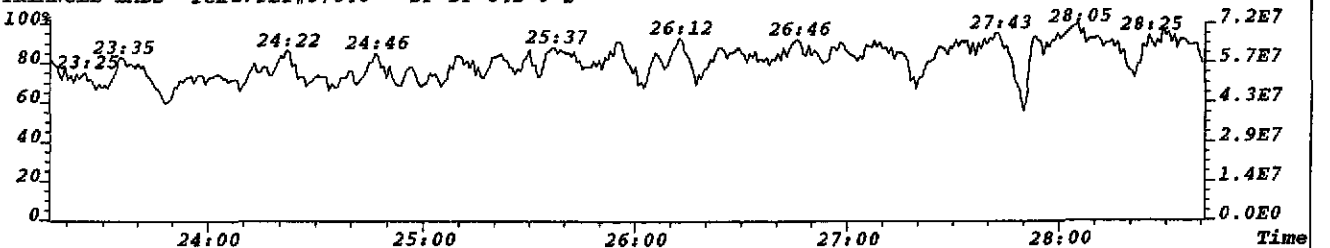
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315.9419 S:14 F:2 BSUB(256,30,-3.0) PKD(9,5,3,0.10%,17780.0,1.00%,F,T) Exp:NDB5US
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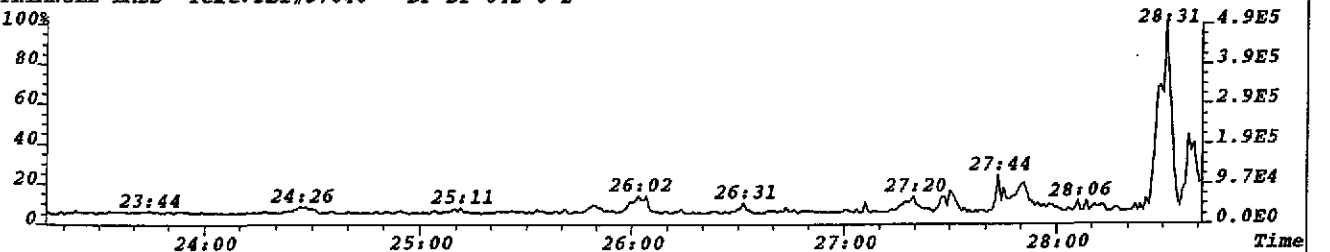
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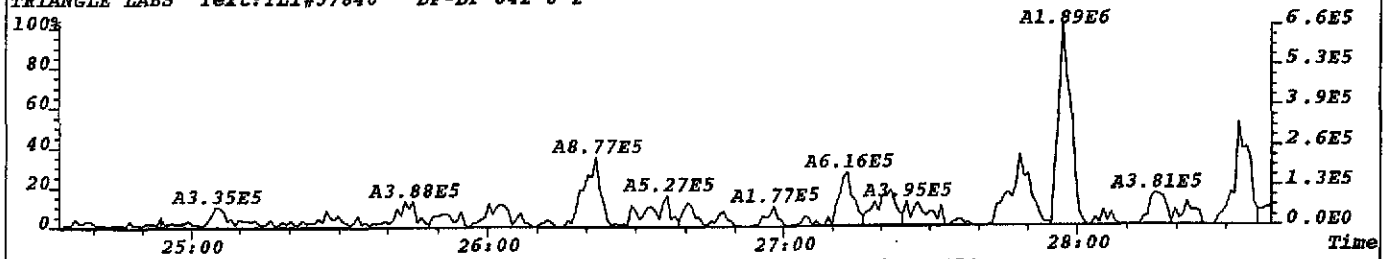
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330.9792 S:14 F:2 Exp:NDB5US
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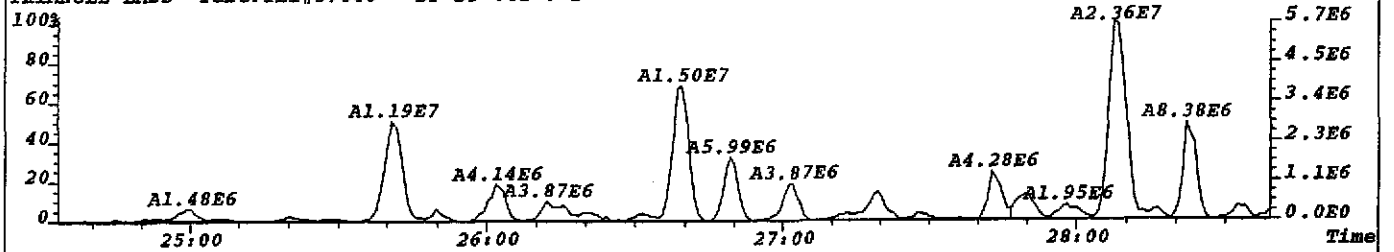
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375.8364 S:14 F:2 Exp:NDB5US
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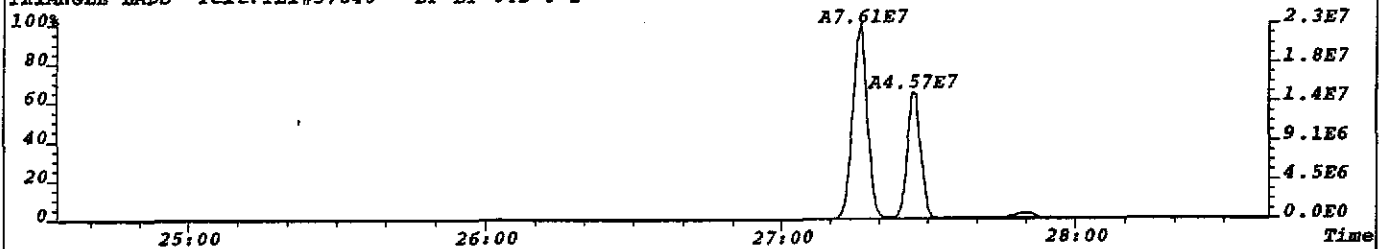
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319.8965 S:14 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,14980.0,1.00%,F,T) Exp:NDB5US
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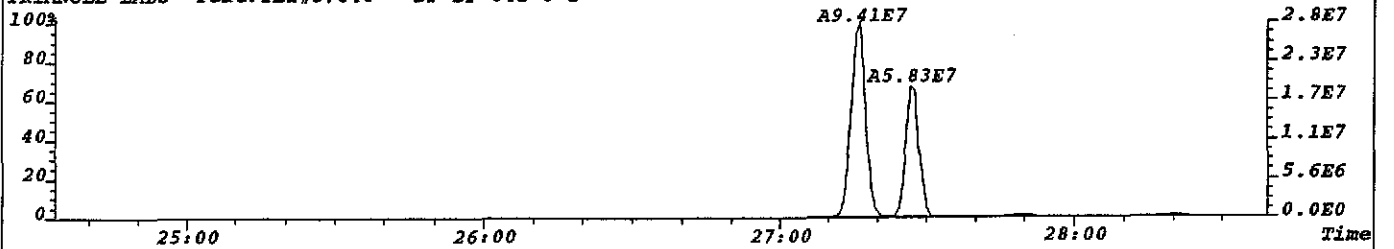
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321.8936 S:14 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,17896.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



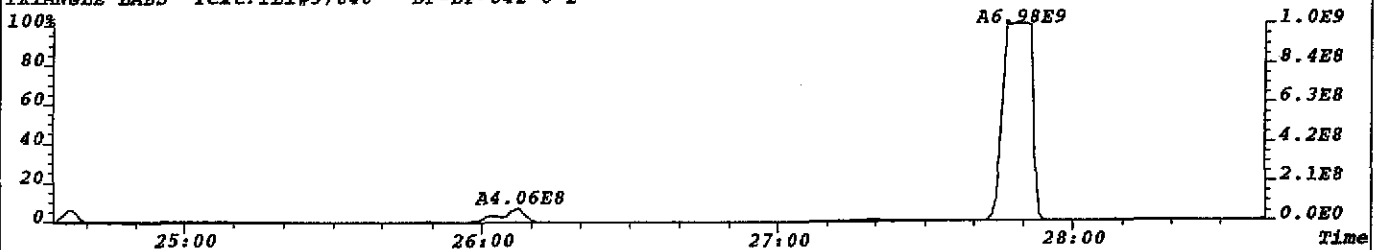
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331.9338 S:14 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,34532.0,1.00%,F,T) Exp:NDB5US
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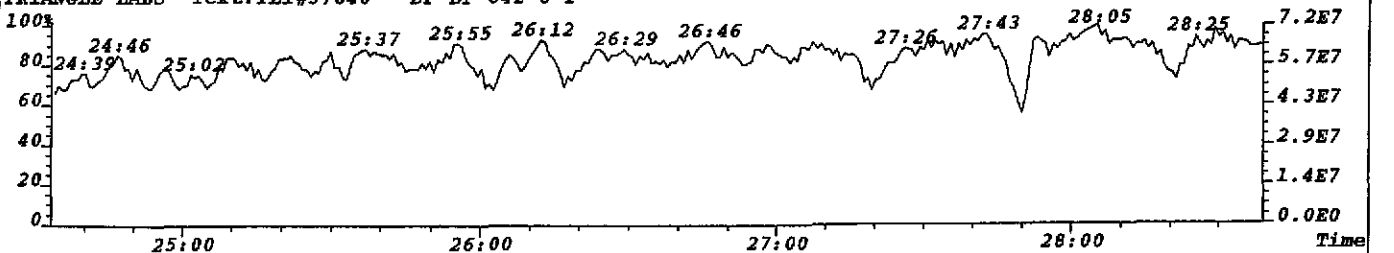
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333.9338 S:14 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,14376.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



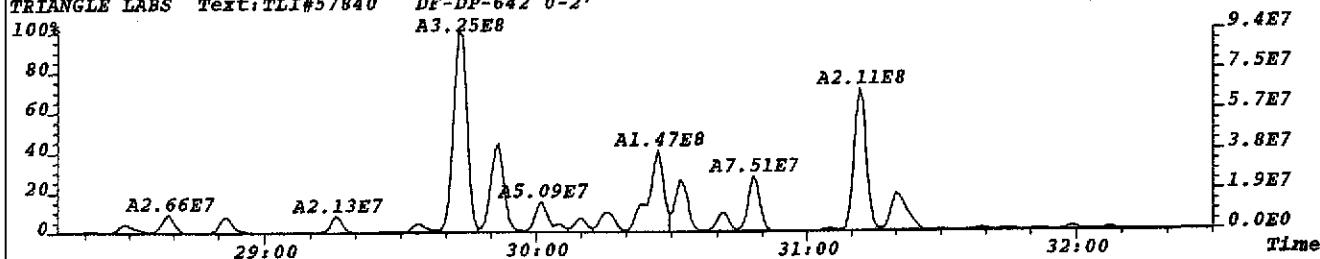
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327.8847 S:14 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,74196.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



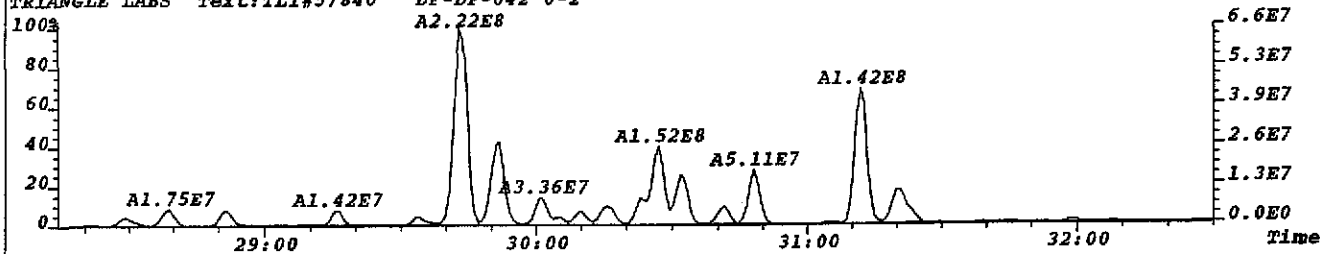
File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
330.9792 S:14 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



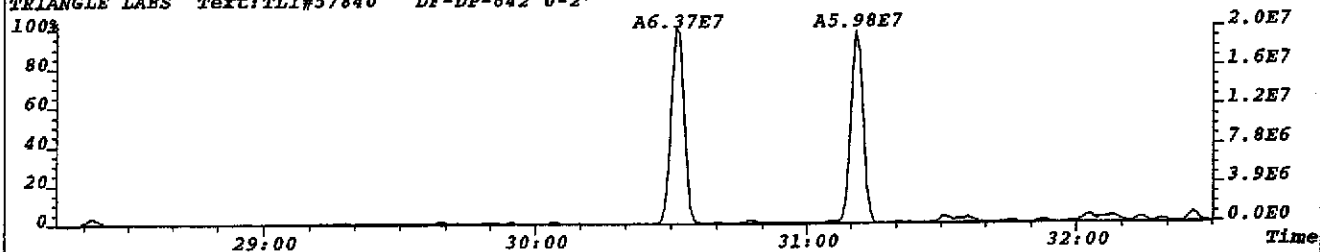
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339.8597 S:14 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,21944.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



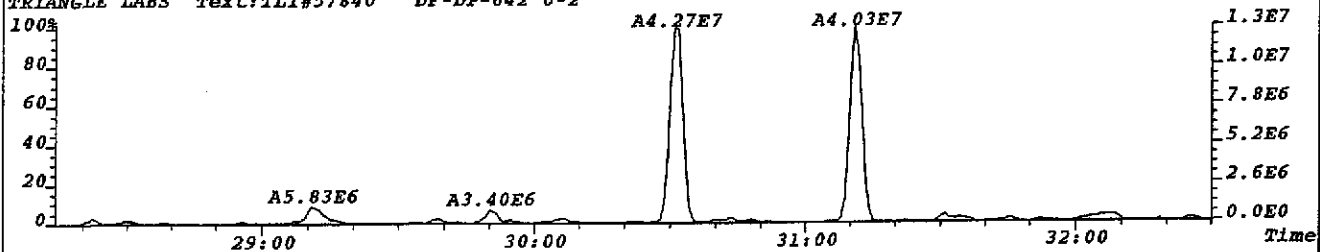
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341.8567 S:14 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,15368.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



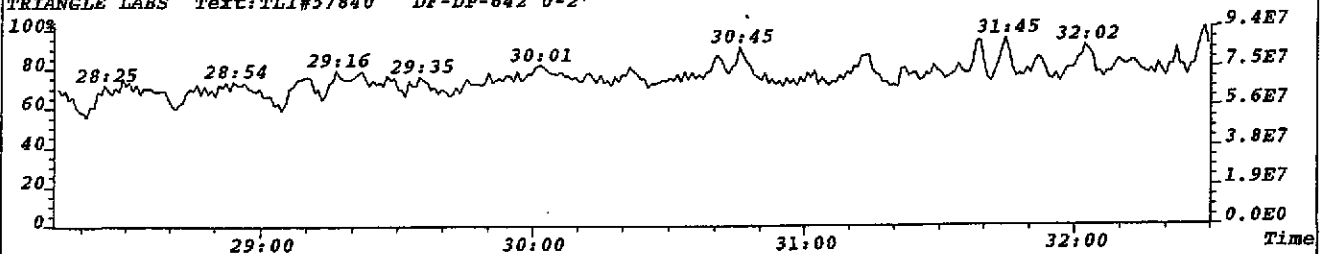
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351.9000 S:14 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,8204.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



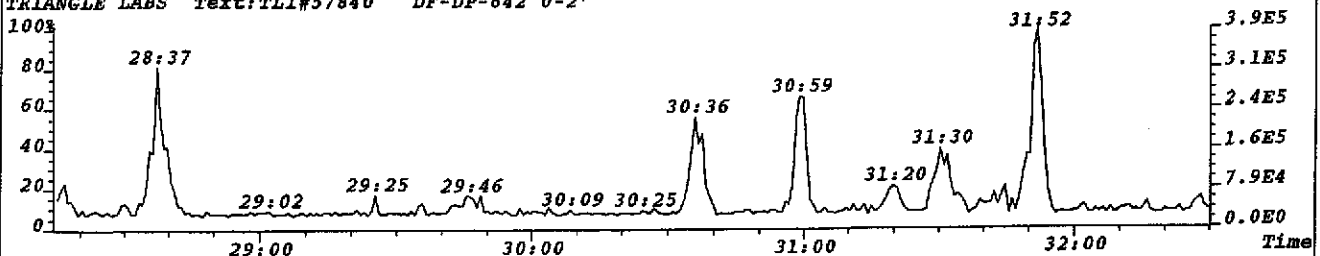
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353.8970 S:14 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,13548.0,1.00%,F,T) Exp:NDB5US
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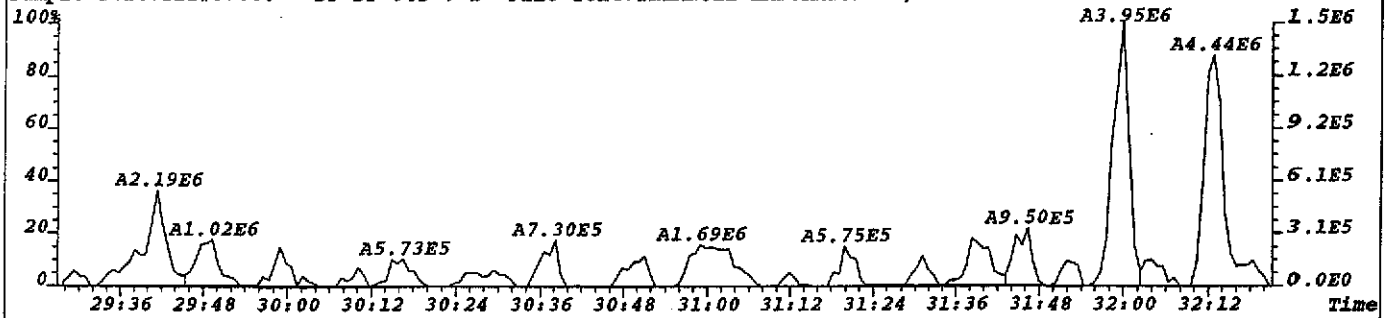
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330.9792 S:14 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



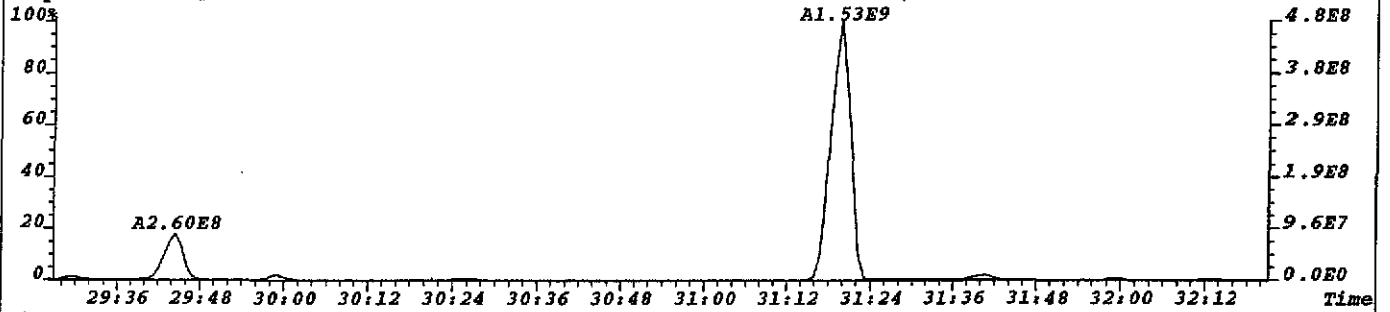
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409.7974 S:14 F:2 Exp:NDB5US
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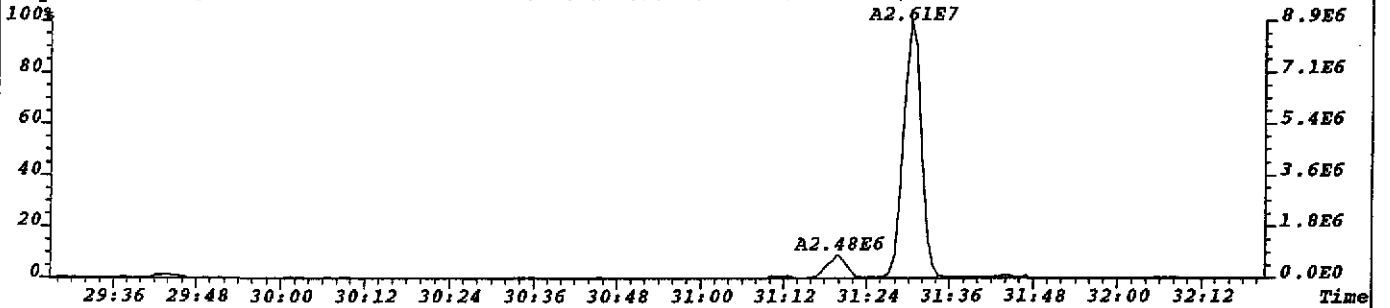
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355.8546 S:14 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,7956.0,1.00%,F,T) Exp:NDB5US Noise:1989
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



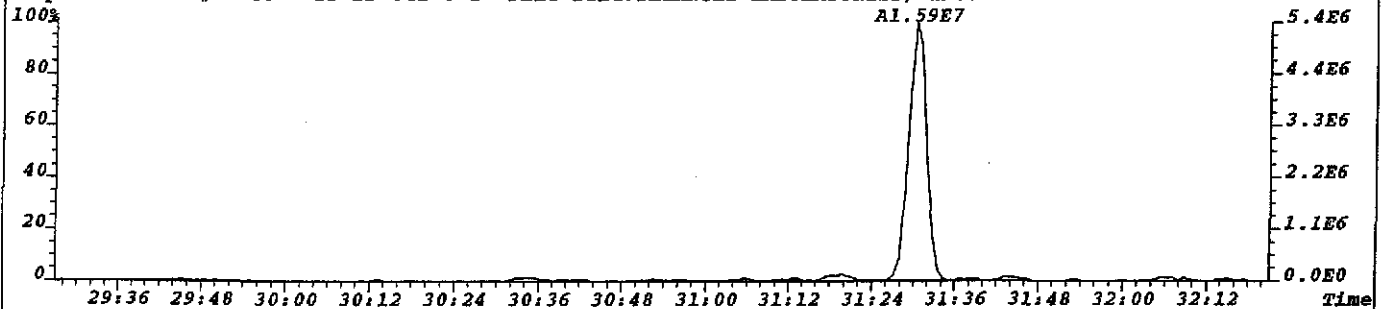
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357.8516 S:14 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,24724.0,1.00%,F,T) Exp:NDB5US Noise:6181
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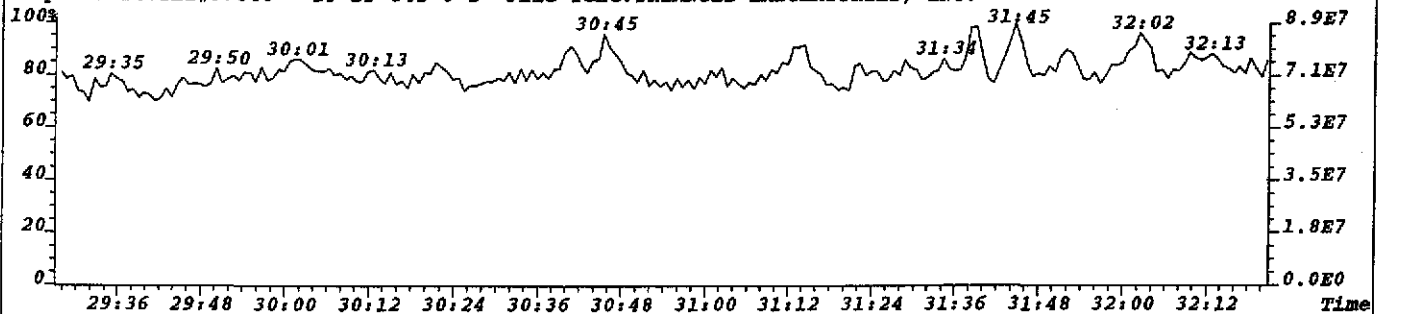
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367.8949 S:14 F:2 BSUB(256,30,-3.0) PKD(5,5,3,0.05%,7624.0,1.00%,F,T) Exp:NDB5US Noise:1906
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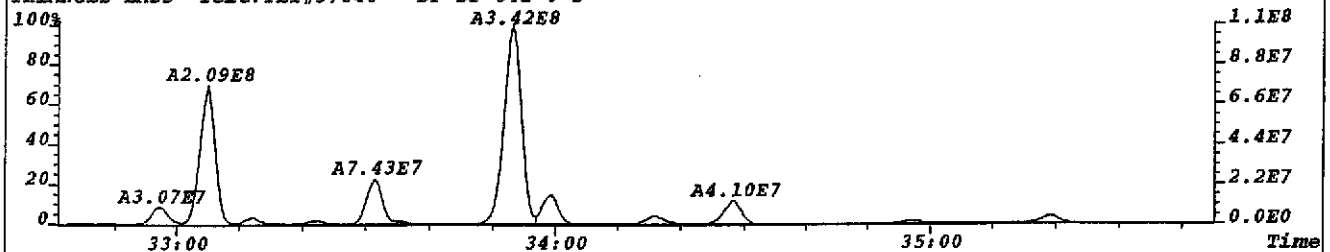
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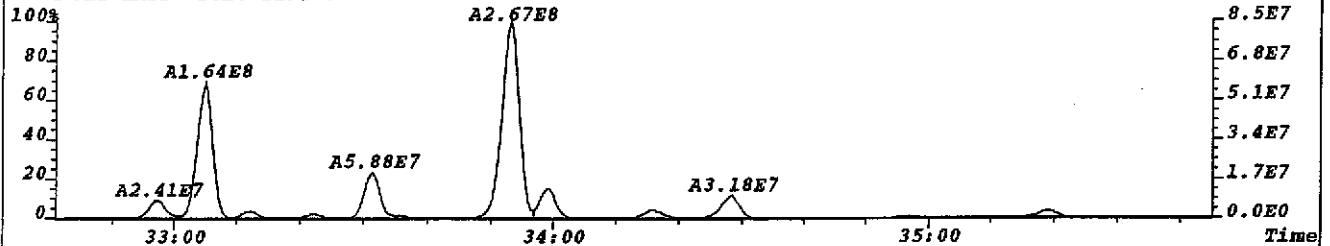
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330.9792 S:14 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



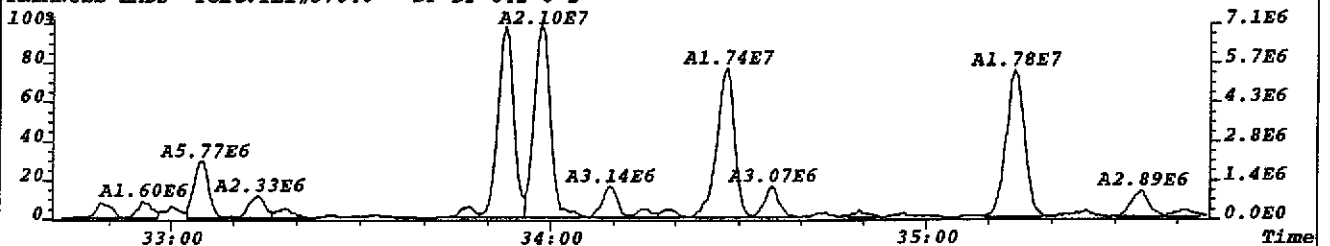
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373.8208 S:14 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,113844.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



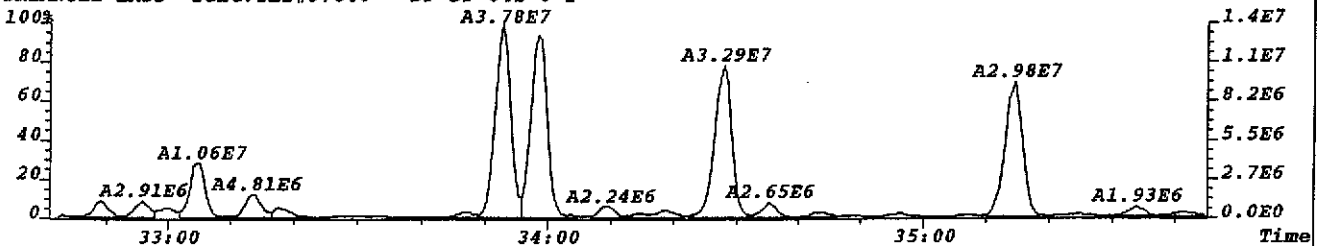
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375.8178 S:14 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,90896.0,1.00%,F,T) Exp:NDB5US
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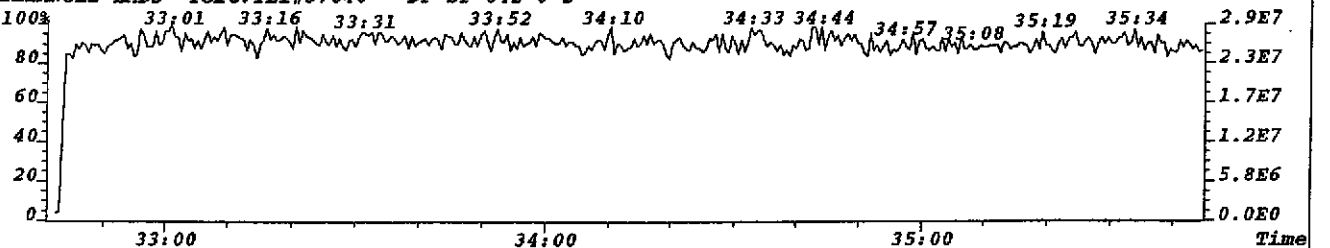
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383.8639 S:14 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,158624.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



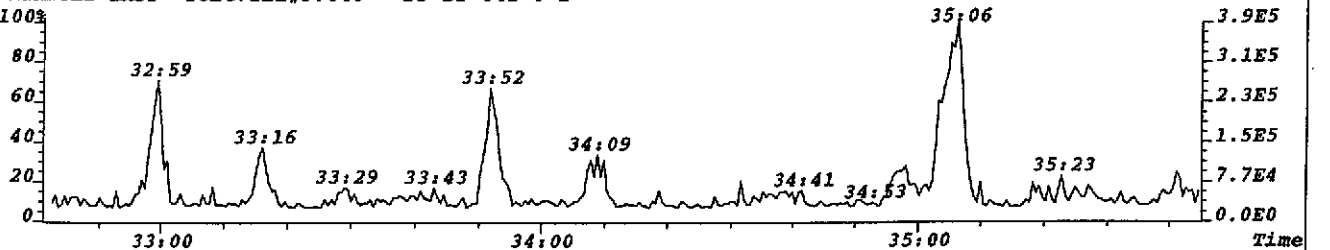
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385.8610 S:14 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,197360.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



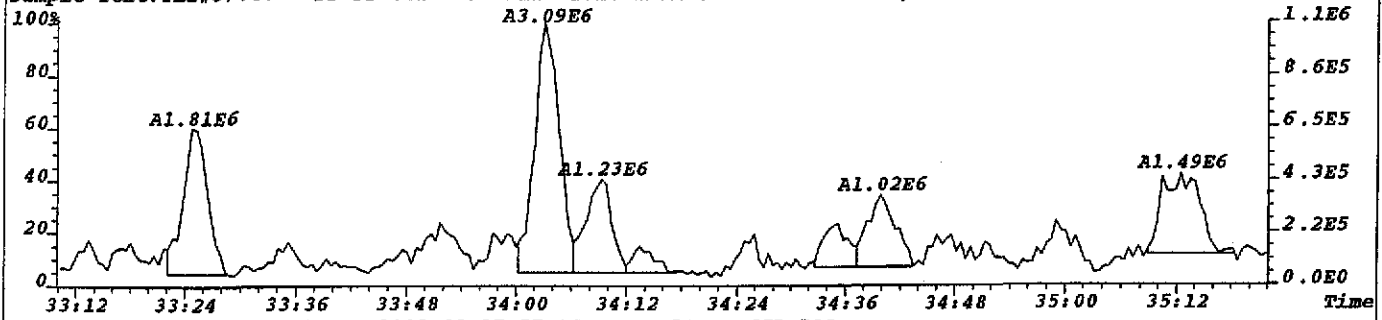
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392.9760 S:14 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



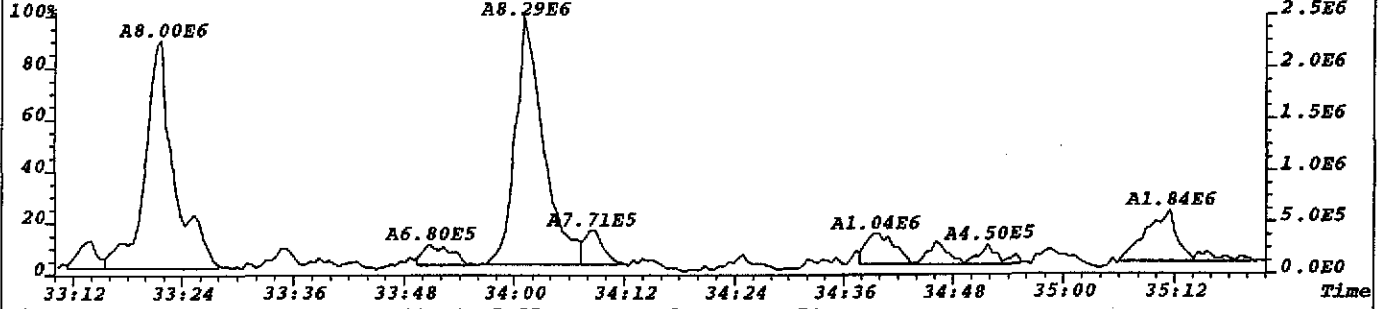
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445.7555 S:14 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



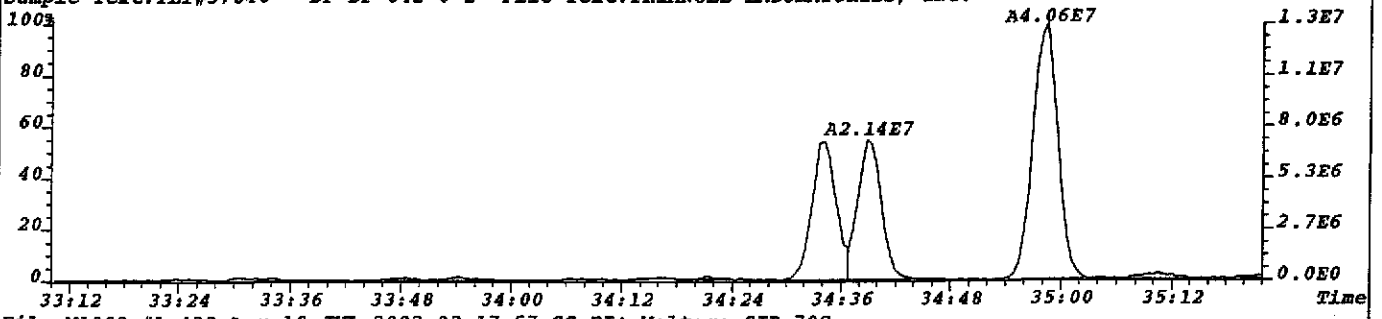
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389.8156 S:14 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,141240.0,1.00%,F,T) Exp:NDB5US Noise:35310
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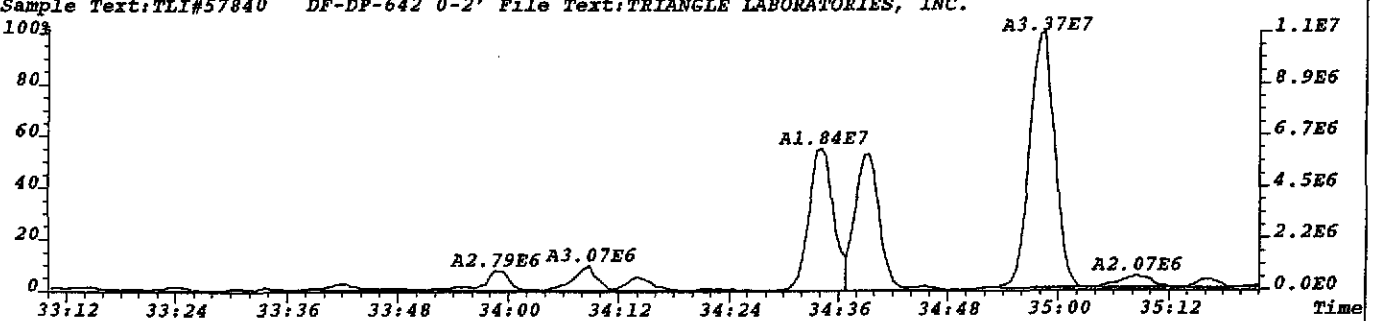
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391.8127 S:14 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,144128.0,1.00%,F,T) Exp:NDB5US Noise:36032
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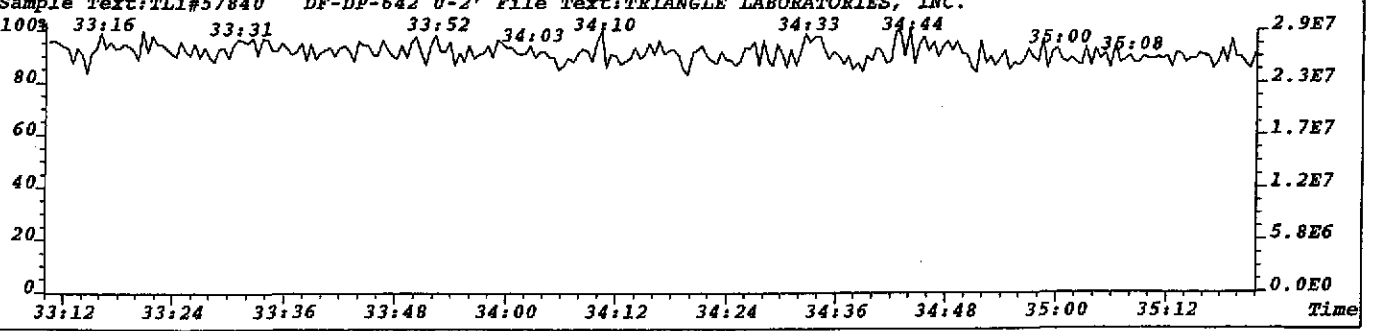
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401.8558 S:14 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,109940.0,1.00%,F,T) Exp:NDB5US Noise:27485
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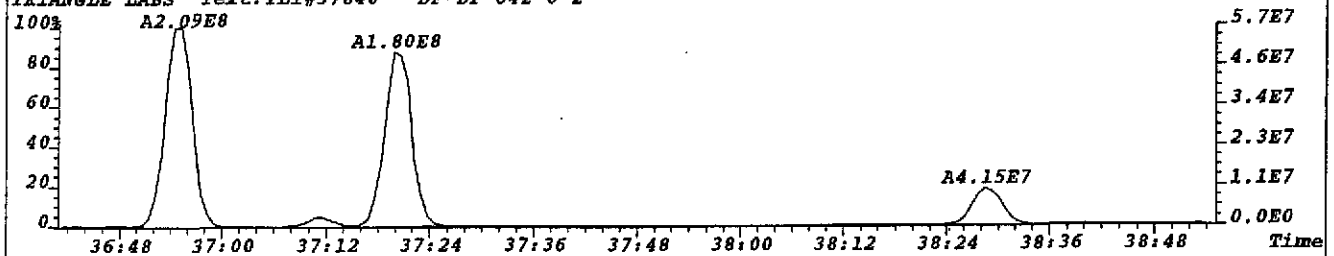
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403.8529 S:14 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,97328.0,1.00%,F,T) Exp:NDB5US Noise:24332
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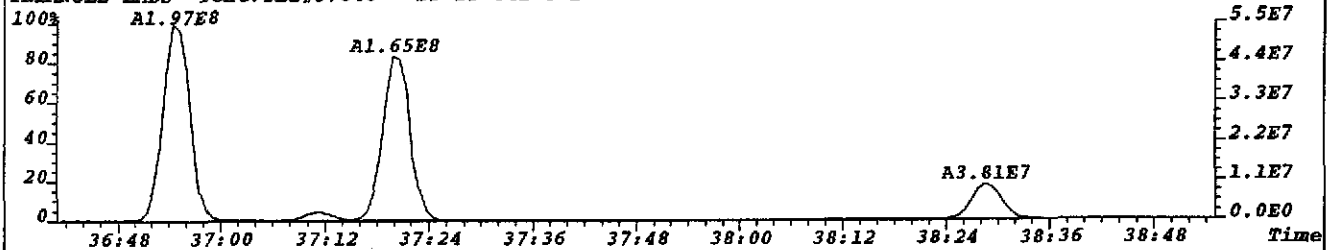
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Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



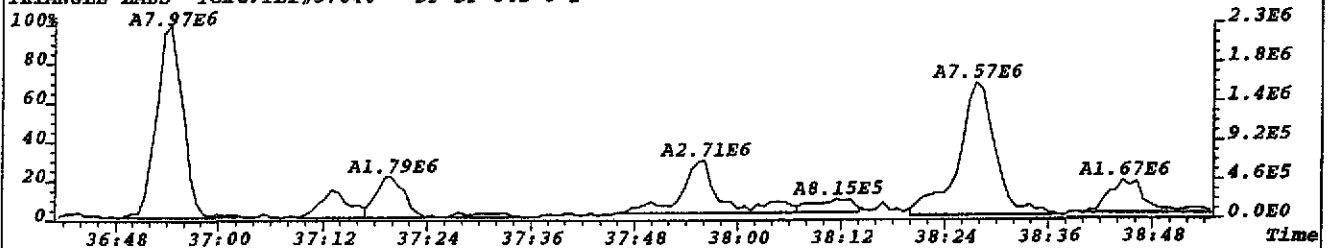
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407.7818 S:14 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,65572.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



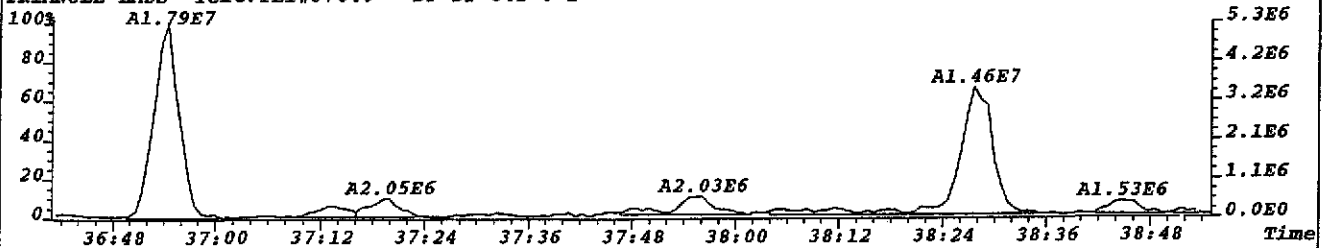
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S Noise:11375
409.7789 S:14 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,45500.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



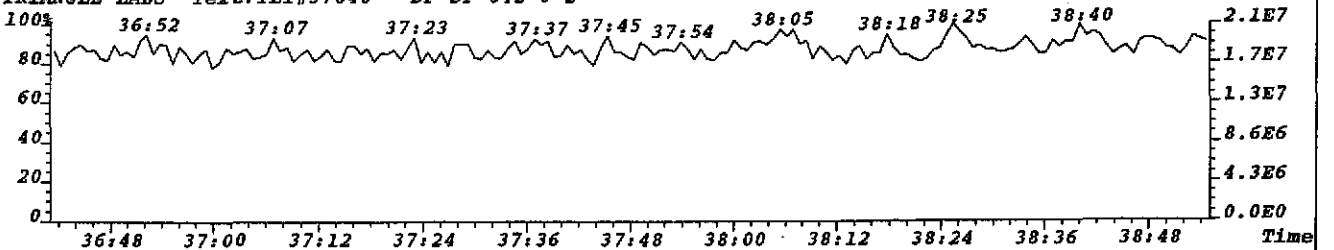
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417.8253 S:14 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,79292.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



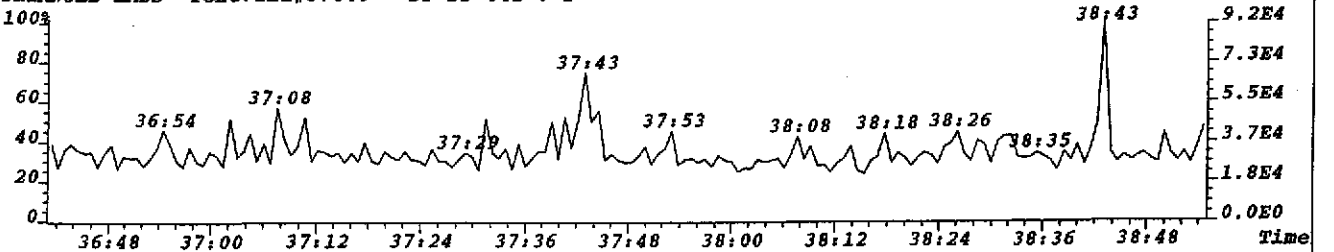
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S Noise:28651
419.8220 S:14 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,114604.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



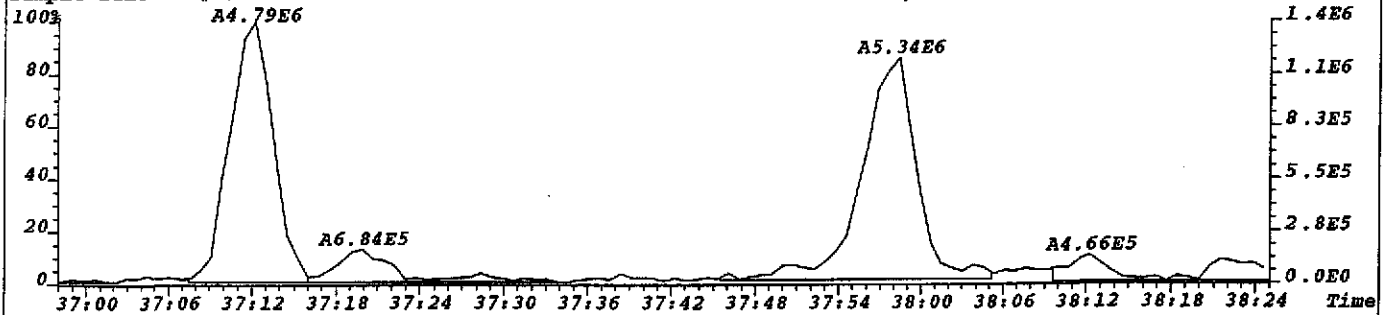
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
430.9729 S:14 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



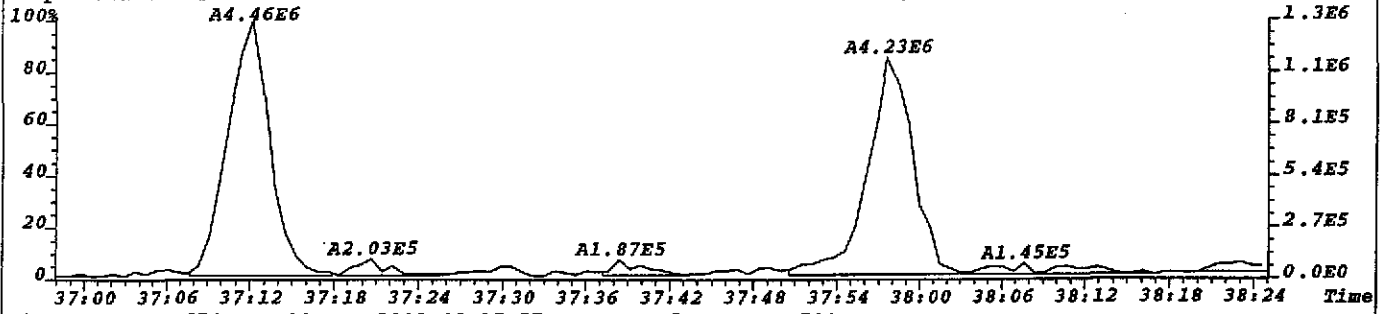
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
479.7165 S:14 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57840 DF-DP-642 0-2'



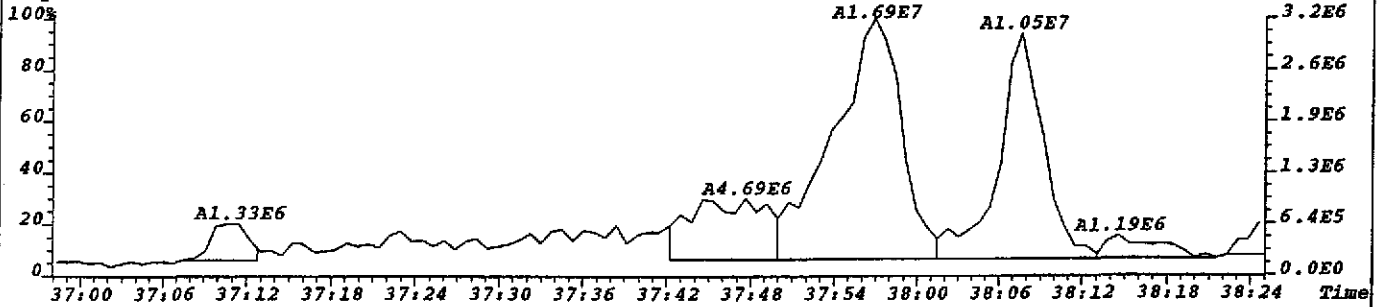
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
423.7766 S:14 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,41784.0,1.00%,F,T) Exp:NDB5US Noise:10446
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



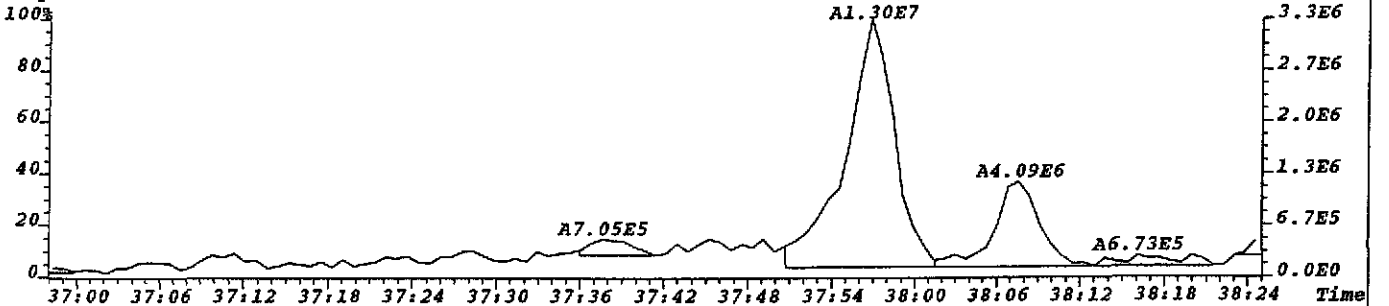
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
425.7737 S:14 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,46120.0,1.00%,F,T) Exp:NDB5US Noise:11530
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



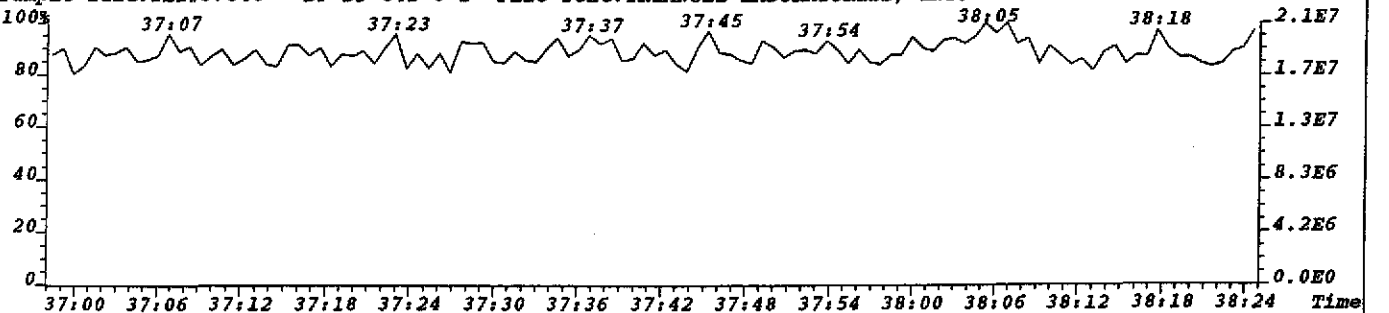
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
435.8169 S:14 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,416264.0,1.00%,F,T) Exp:NDB5US Noise:104066
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



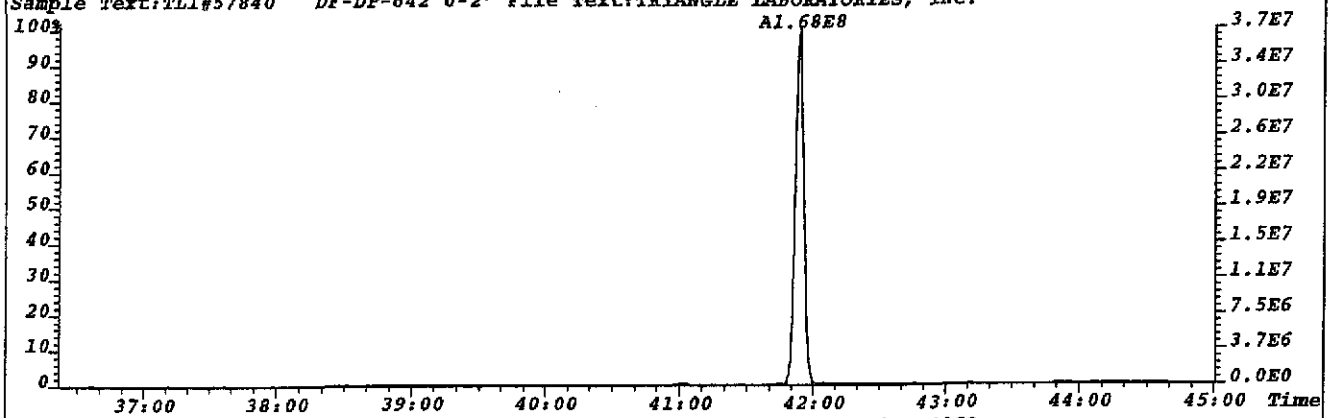
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
437.8140 S:14 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.10%,209604.0,1.00%,F,T) Exp:NDB5US Noise:52401
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



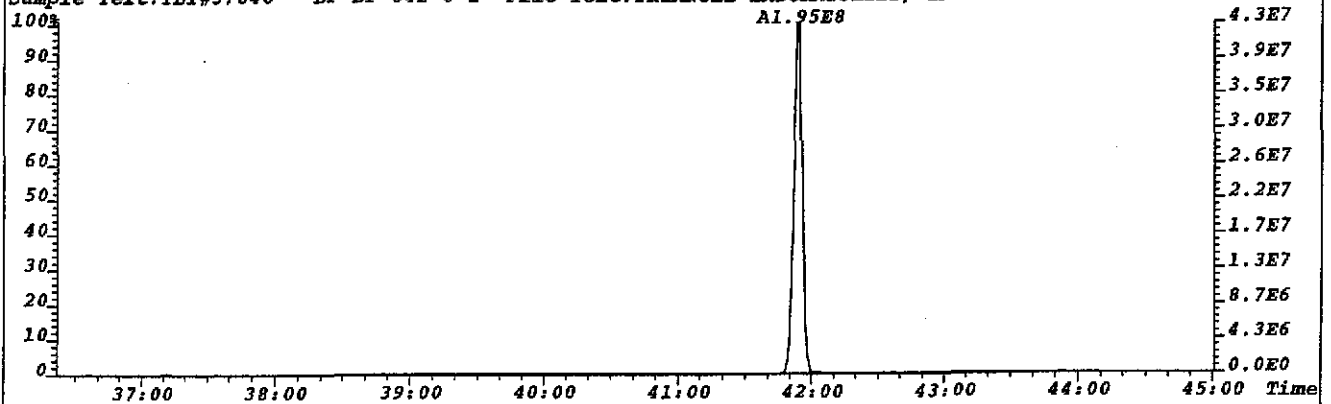
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
430.9729 S:14 F:4 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



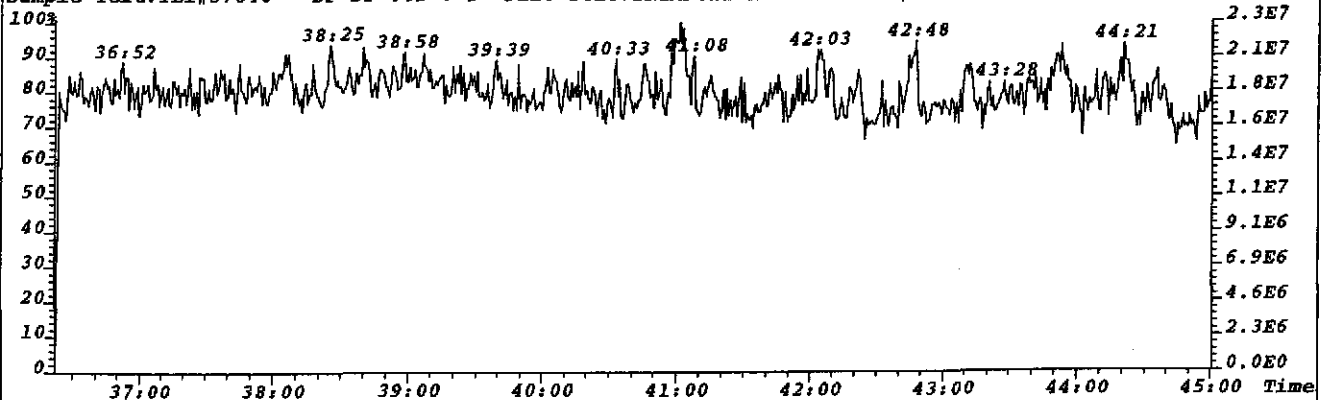
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S Noise:4668
441.7428 S:14 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,18672.0,1.00%,F,T) Exp:NDB5US
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



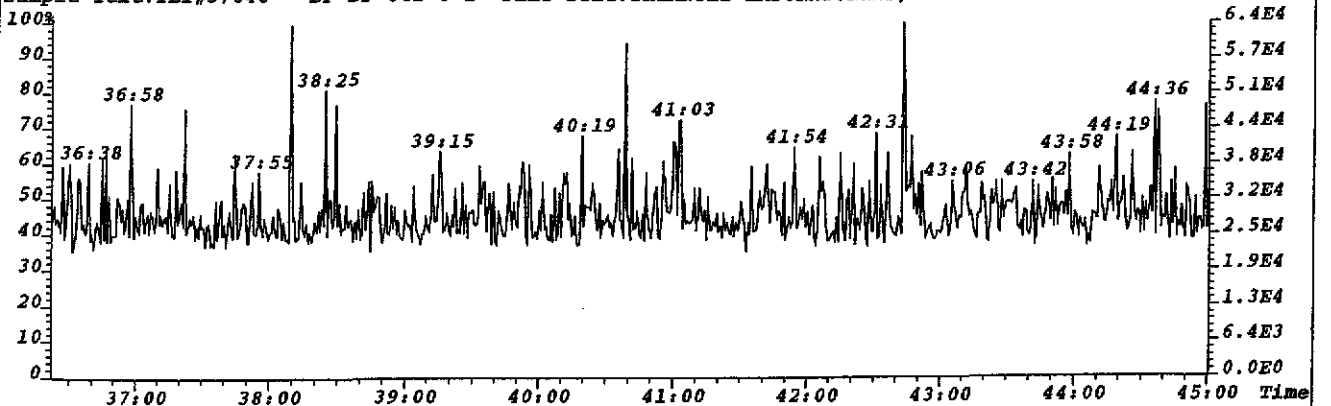
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S Noise:4069
443.7399 S:14 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,16276.0,1.00%,F,T) Exp:NDB5US
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



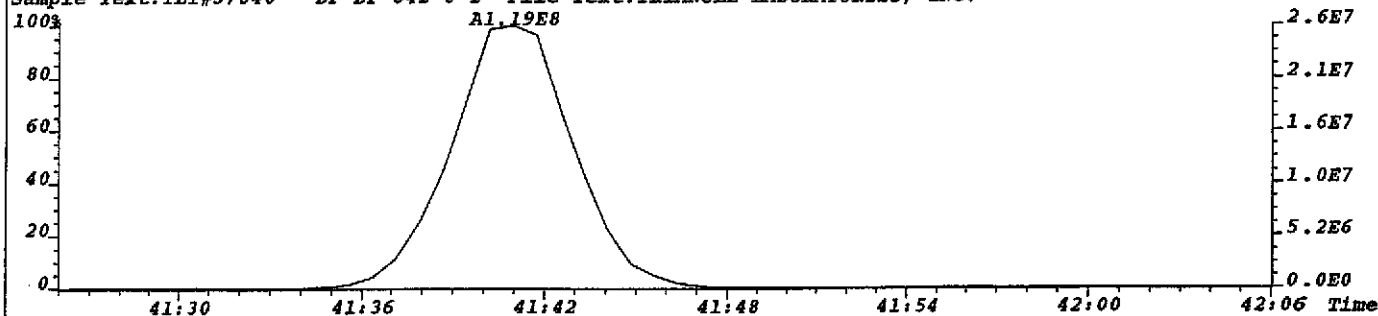
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
430.9729 S:14 F:4 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



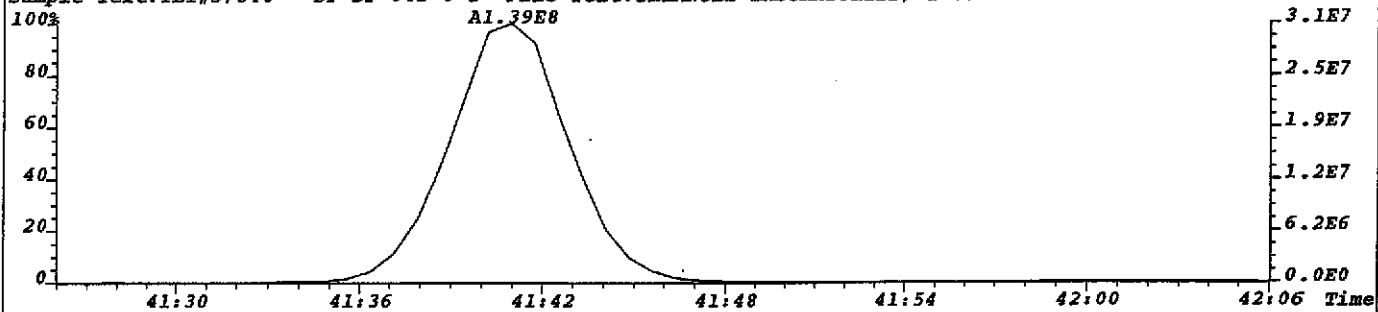
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
513.6775 S:14 F:4 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



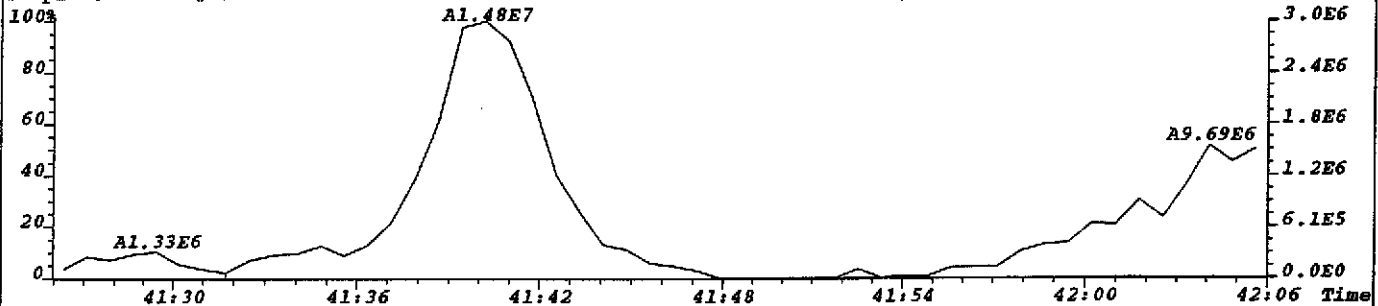
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457.7377 S:14 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10732.0,1.00%,F,T) Exp:NDB5US Noise:2683
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



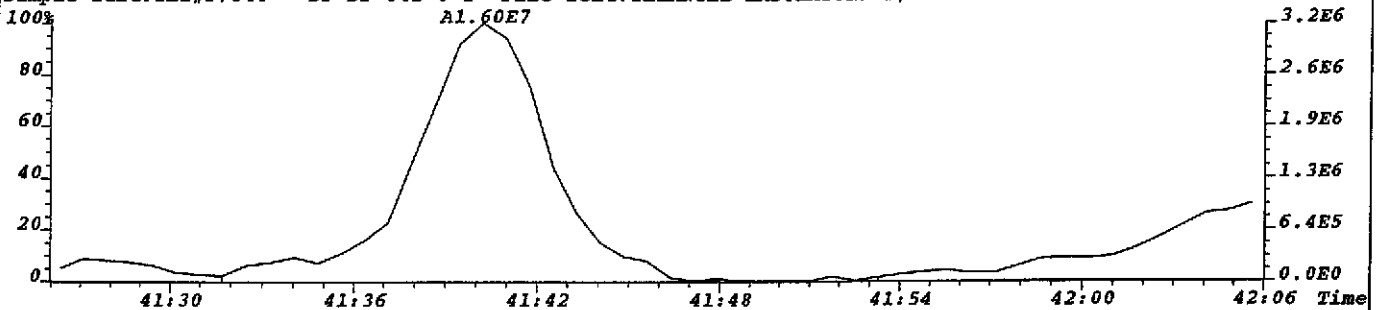
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459.7348 S:14 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,10952.0,1.00%,F,T) Exp:NDB5US Noise:2738
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



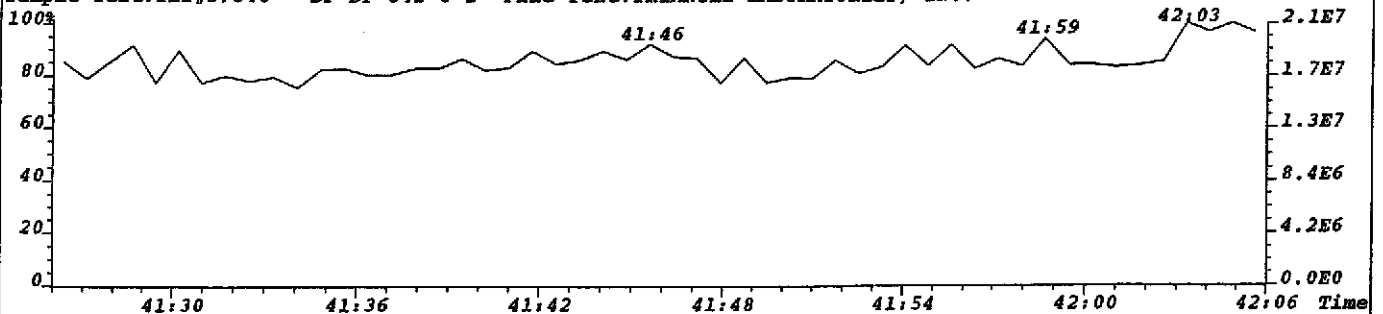
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
469.7779 S:14 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,83240.0,1.00%,F,T) Exp:NDB5US Noise:20810
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



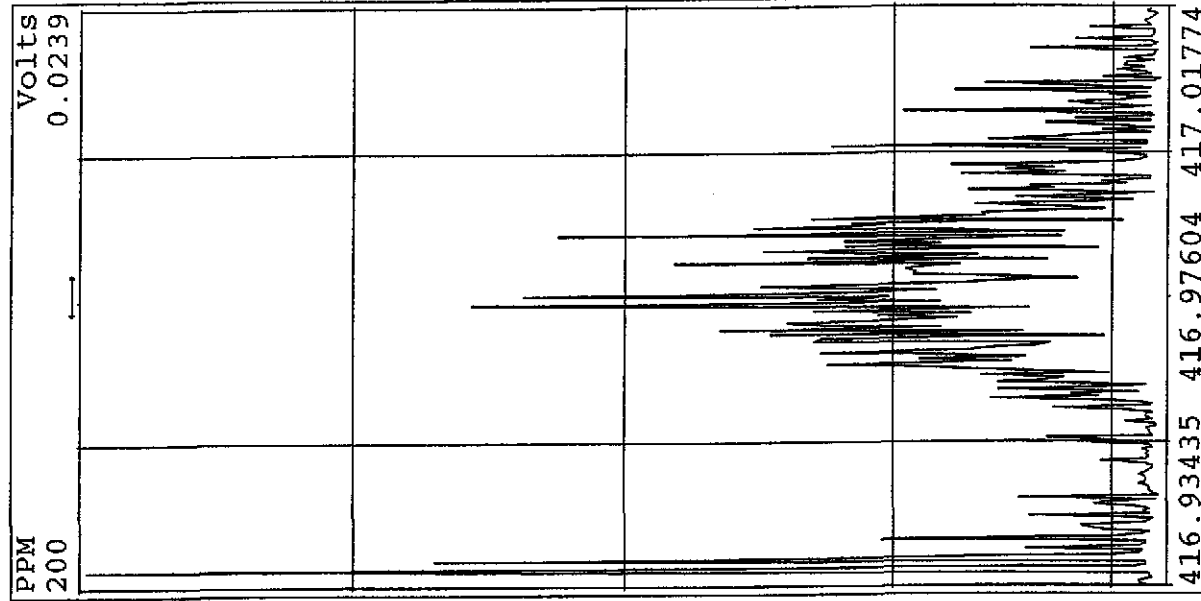
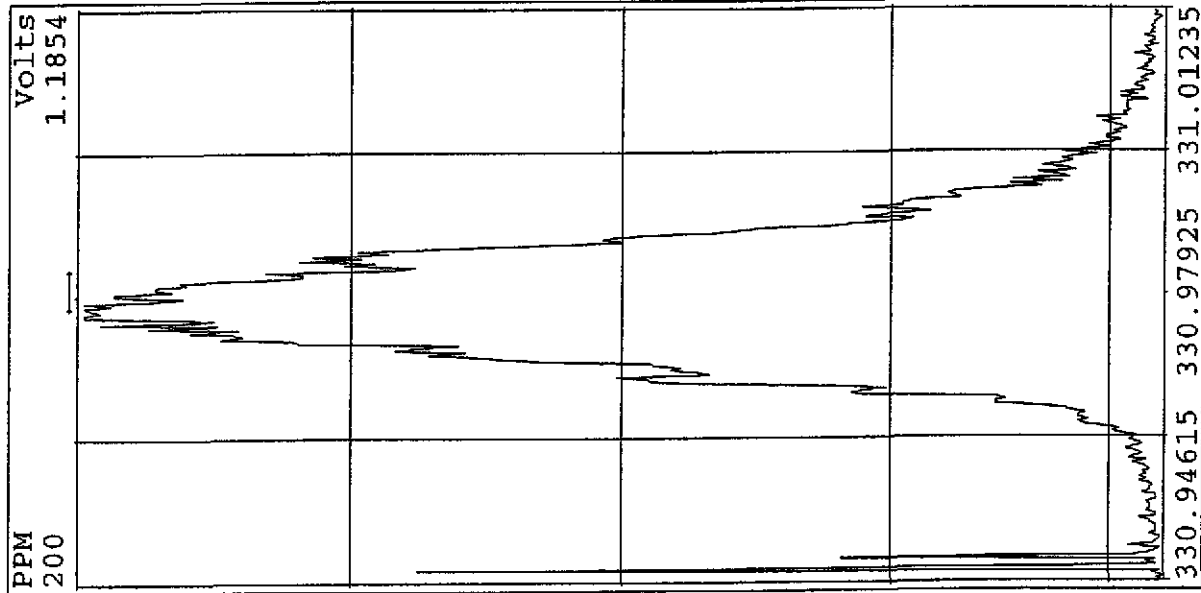
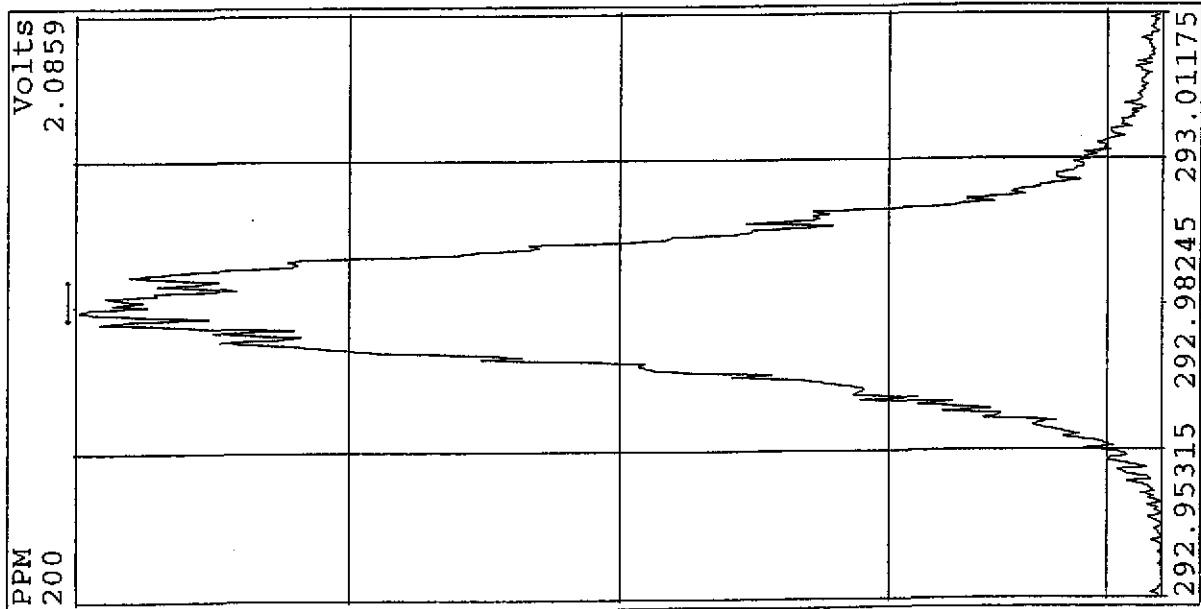
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
471.7750 S:14 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.10%,122256.0,1.00%,F,T) Exp:NDB5US Noise:30564
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



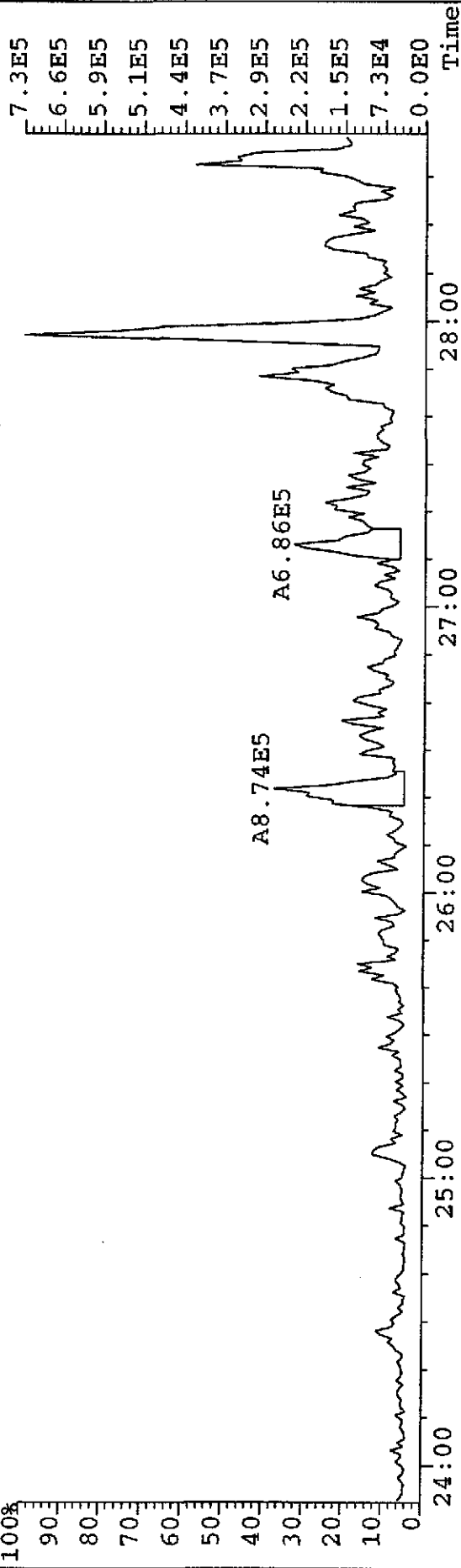
File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
430.9729 S:14 F:4 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



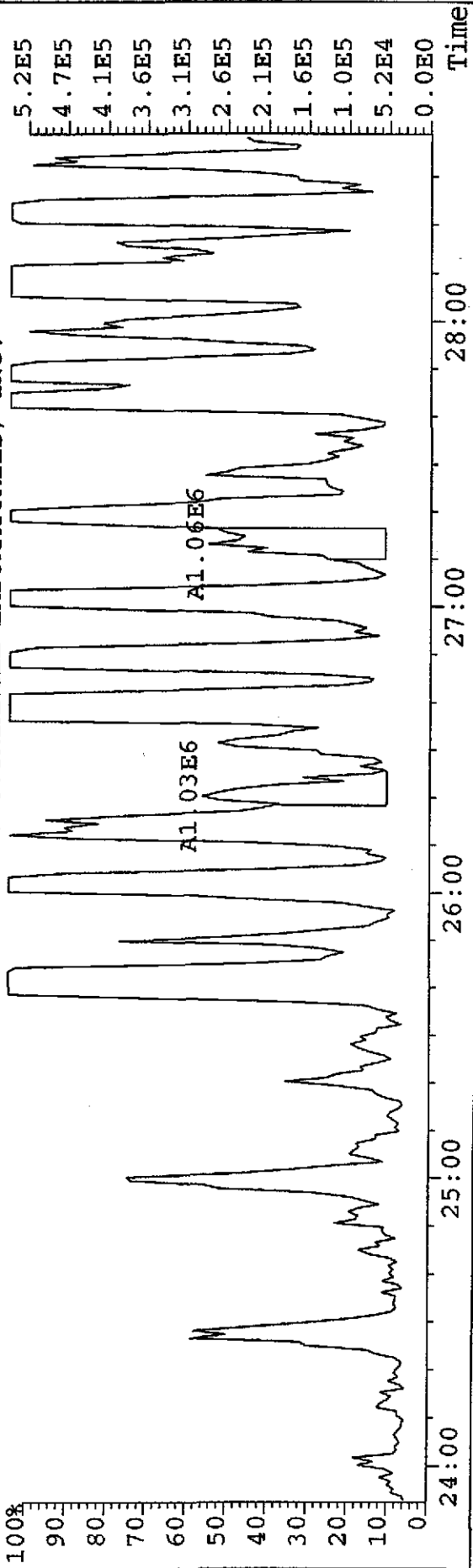
Peak Locate Examination: 17-JUL-2002:15:51 File: W1082
Experiment: NDB5US Function: 2 Reference: PFK



File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
319.8965 S:14 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.

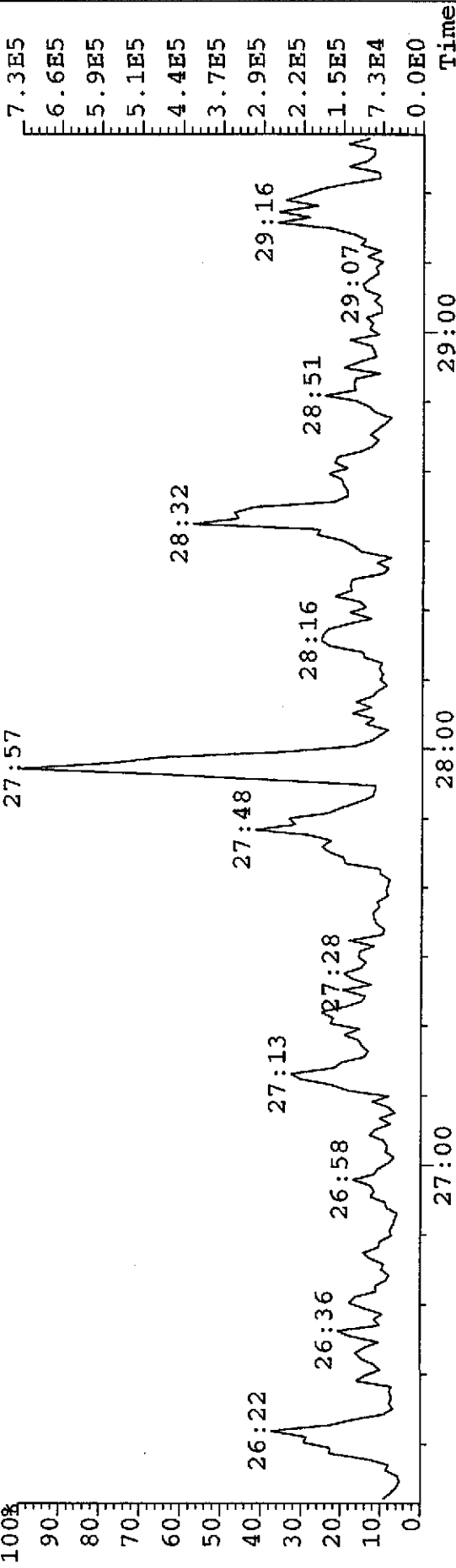


File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
321.8936 S:14 F:2 Exp:NDB5US
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.

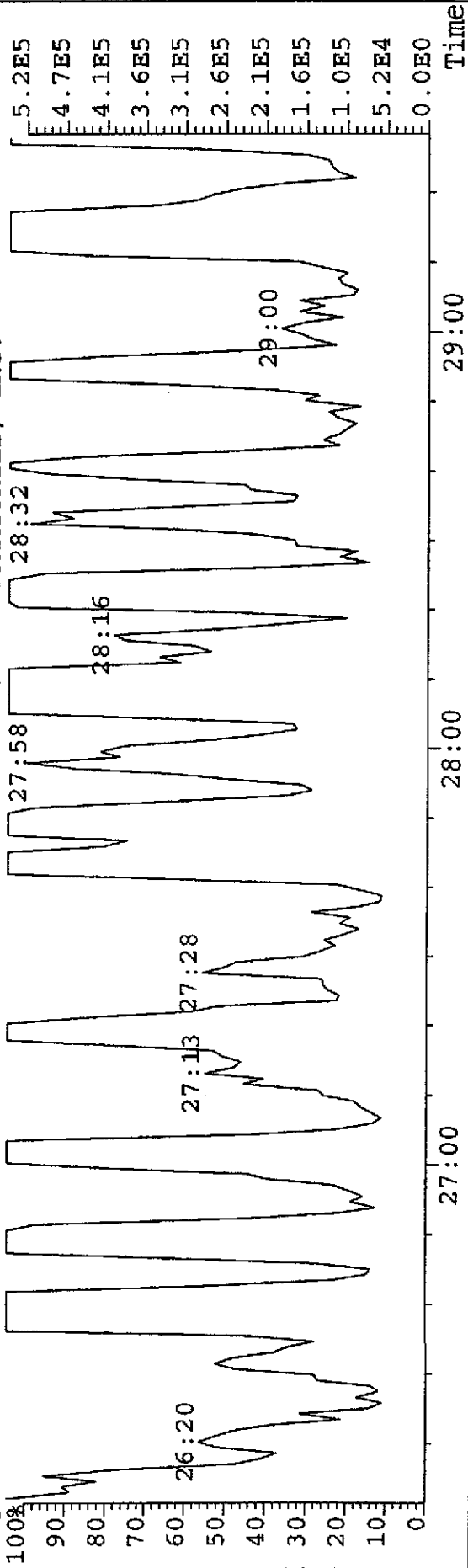


Fisher

File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
 319.8965 S:14 F:2 Exp:NDB5US
 Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S
 321.8936 S:14 F:2 Exp:NDB5US
 Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.

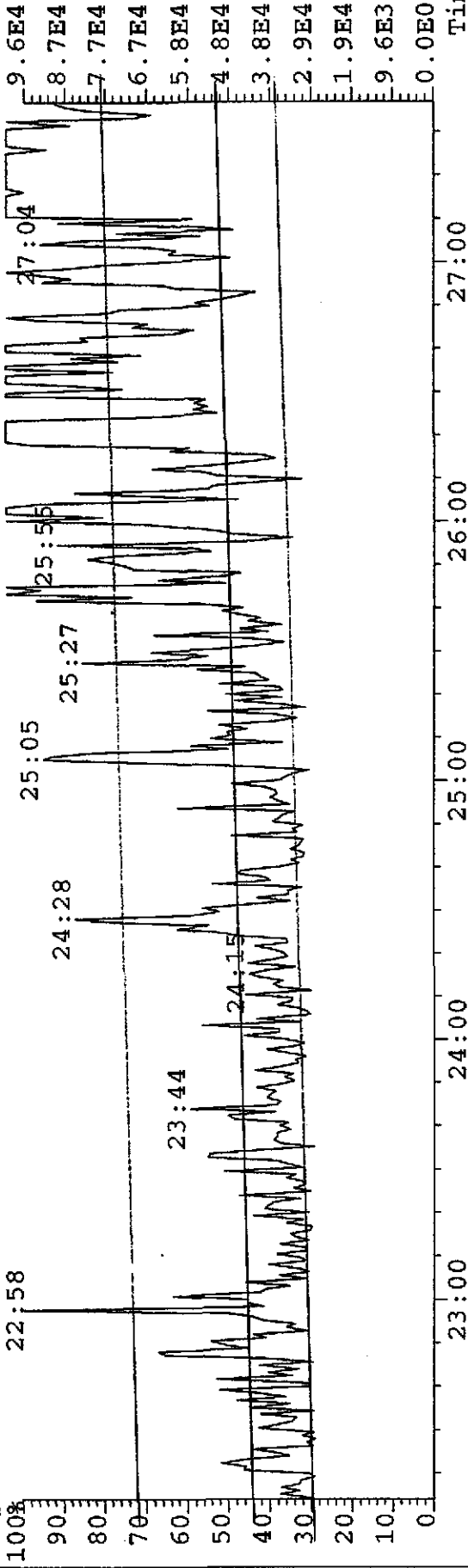


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319.8965 S:14 F:2 Exp:NDB5US

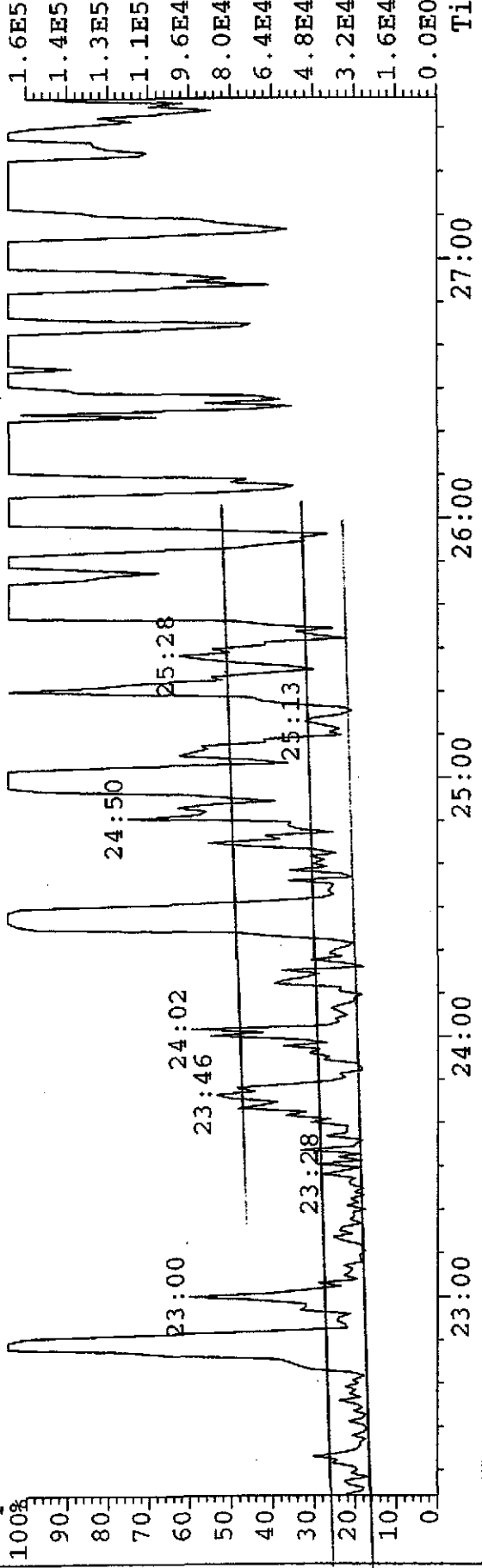
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File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

321.8936 S:14 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



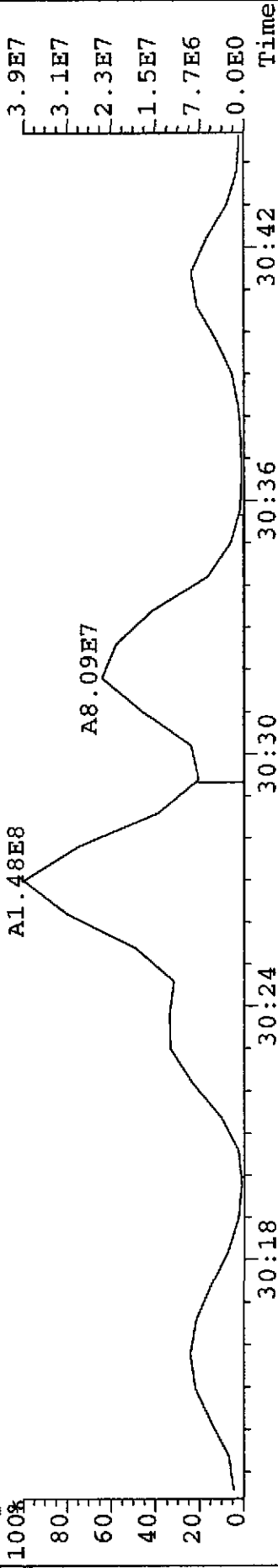
of 2/10/02

File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

339.8597 S:14 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.

A1.48E8

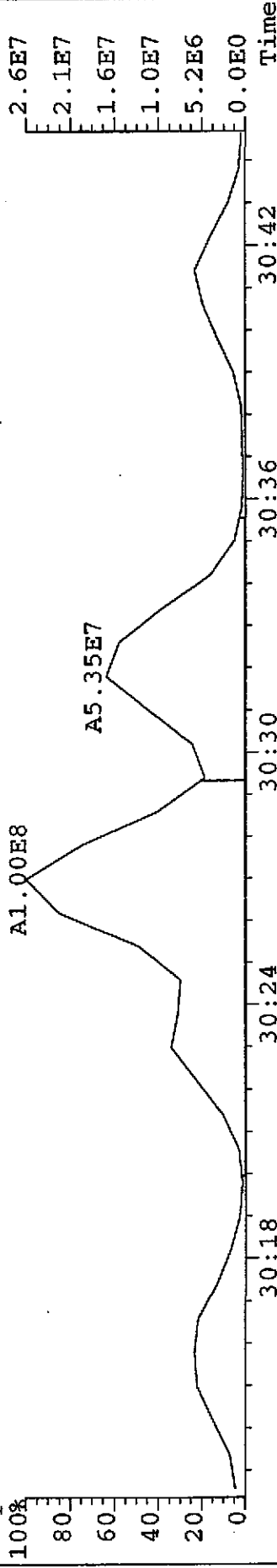


File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

341.8567 S:14 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.

A1.00E8

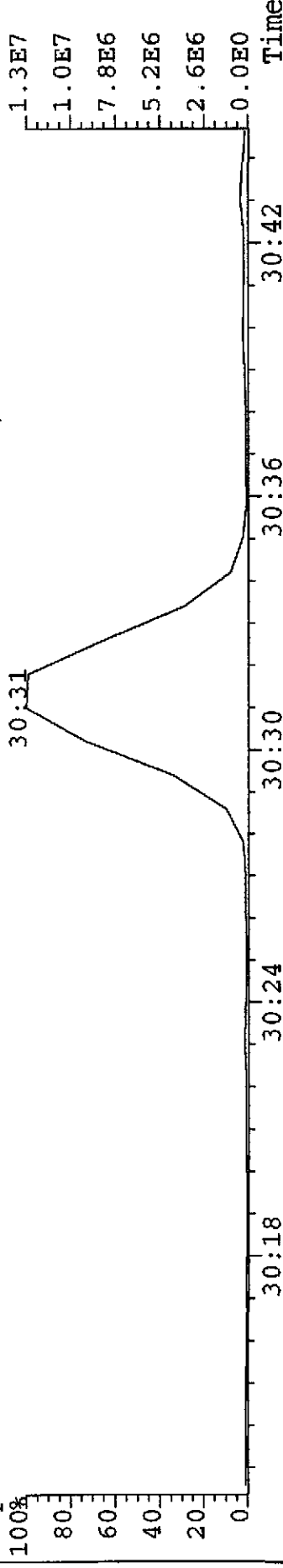


File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

353.8970 S:14 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.

30.31

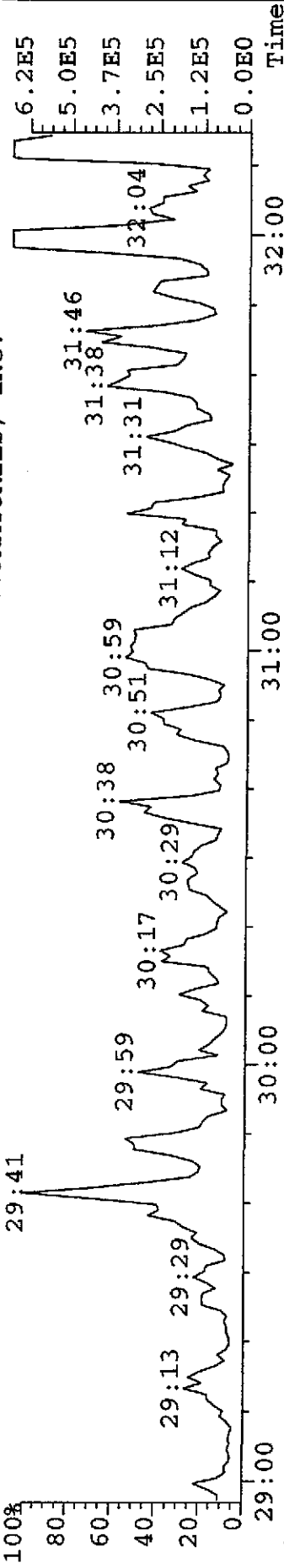


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File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

355.8546 S:14 F:2 Exp:NDB5US

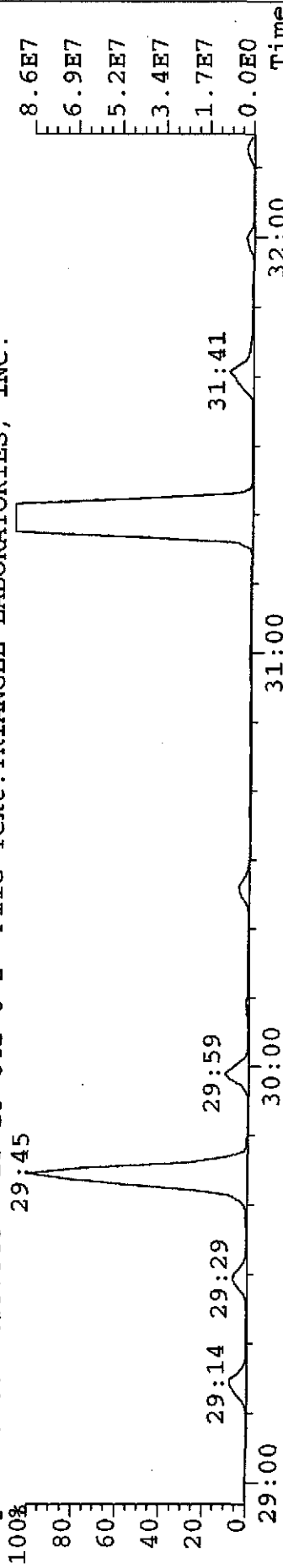
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

357.8516 S:14 F:2 Exp:NDB5US

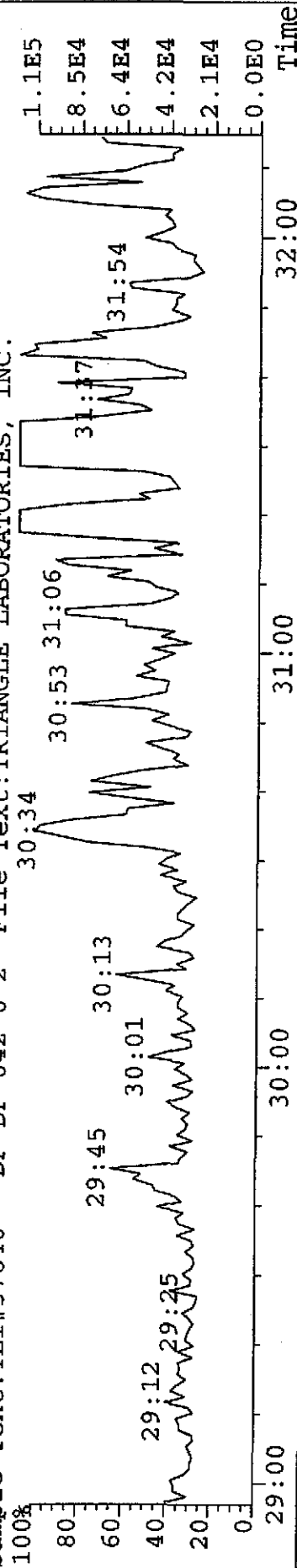
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

369.8919 S:14 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.

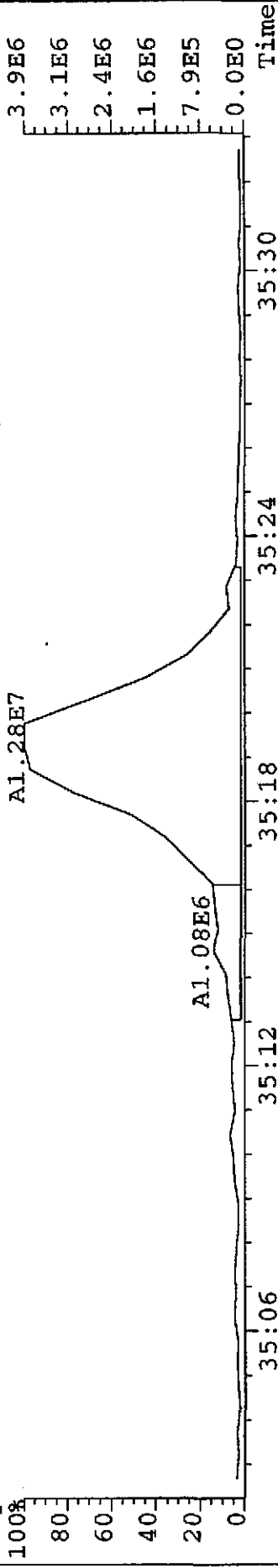


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File:W1082 #1-422 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

373.8208 S:14 F:3 Exp:NDB5US

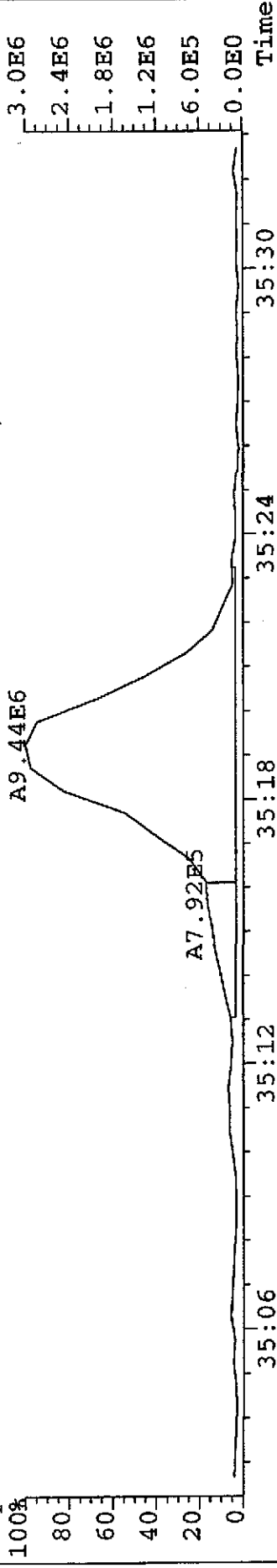
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-422 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

375.8178 S:14 F:3 Exp:NDB5US

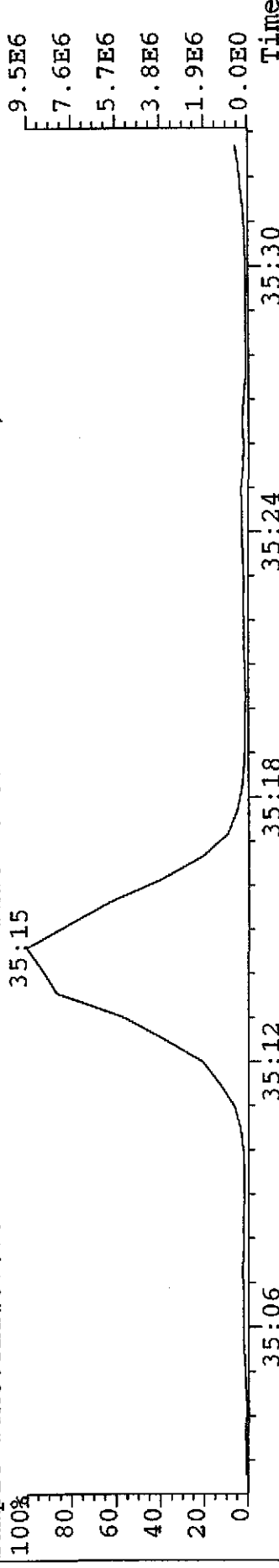
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-422 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

385.8610 S:14 F:3 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.

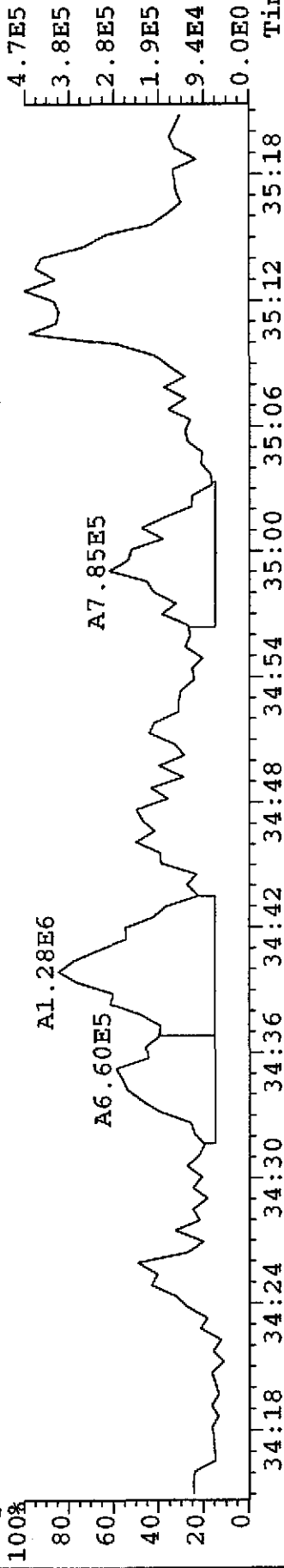


Yuhua

File:W1082 #1-422 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

389.8156 S:14 F:3 Exp:NDB5US

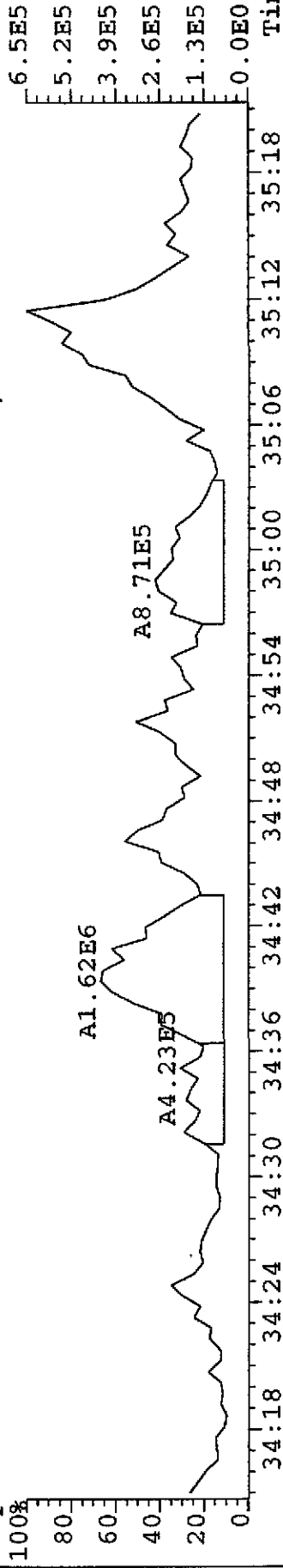
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-422 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

391.8127 S:14 F:3 Exp:NDB5US

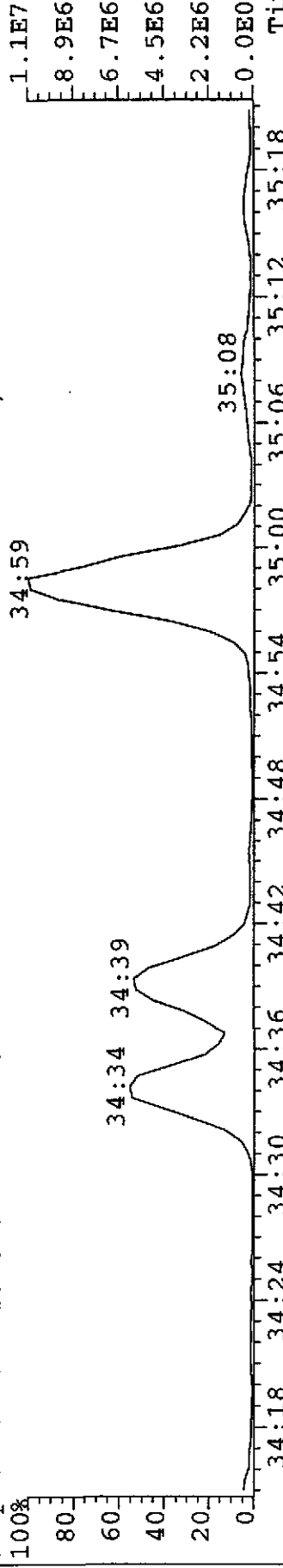
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-422 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

403.8529 S:14 F:3 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.

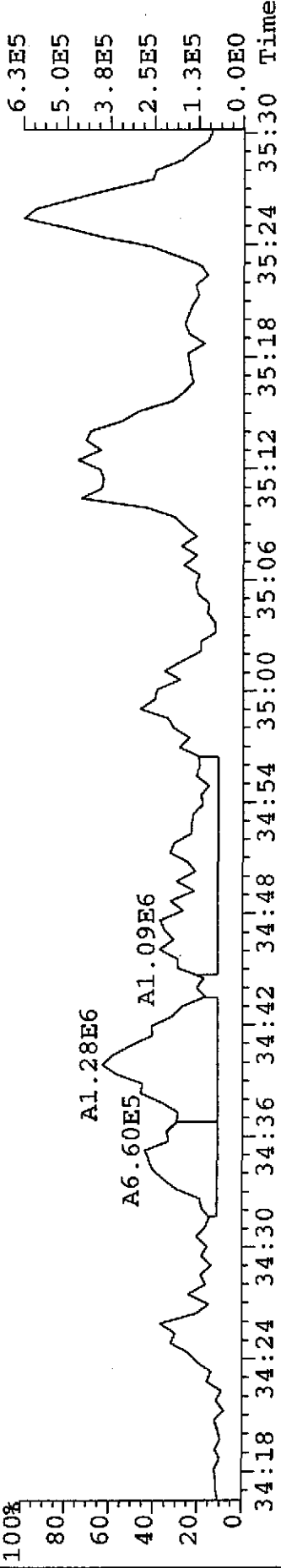


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File:W1082 #1-422 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

389.8156 S:14 F:3 Exp:NDB5US

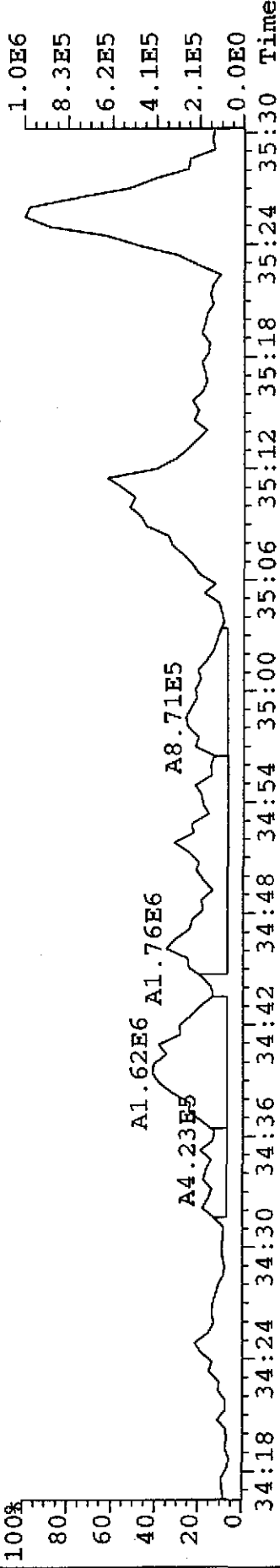
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-422 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

391.8127 S:14 F:3 Exp:NDB5US

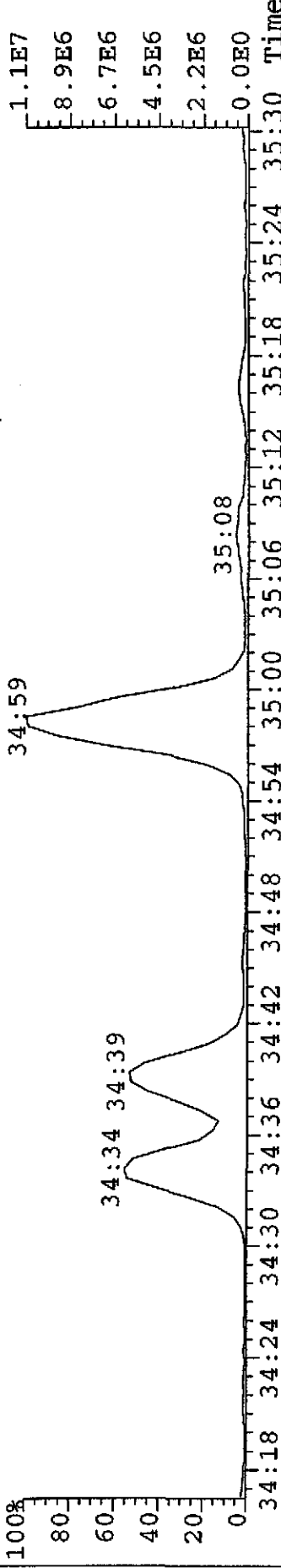
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-422 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

403.8529 S:14 F:3 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.

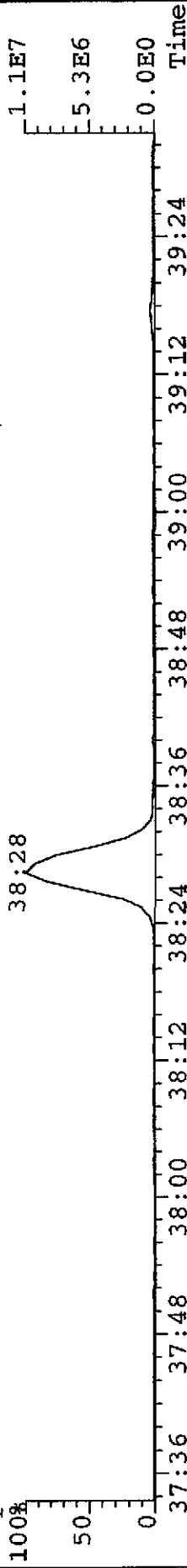


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File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

407.7818 S:14 F:4 Exp:NDB5US

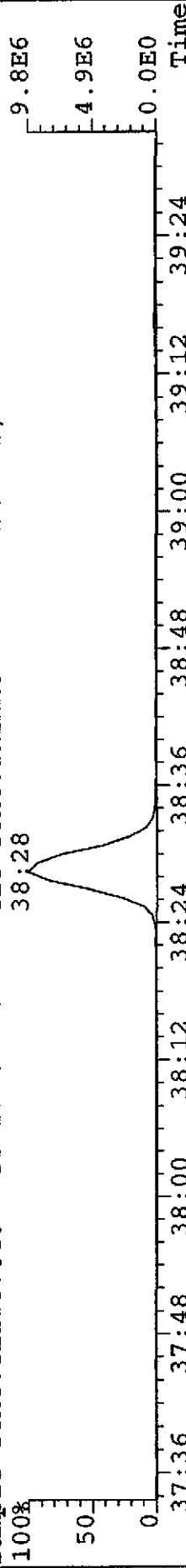
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

409.7789 S:14 F:4 Exp:NDB5US

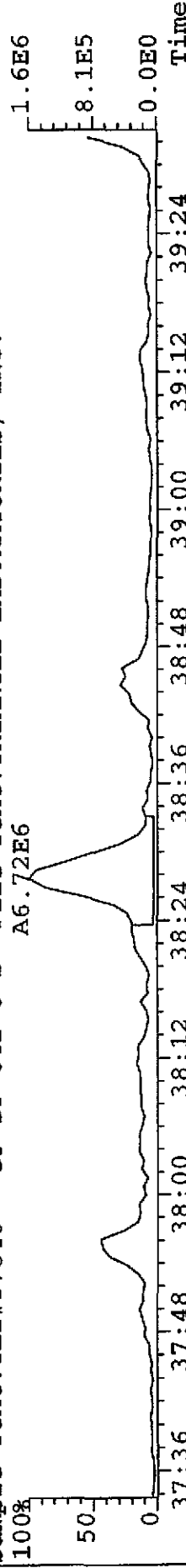
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

417.8253 S:14 F:4 Exp:NDB5US

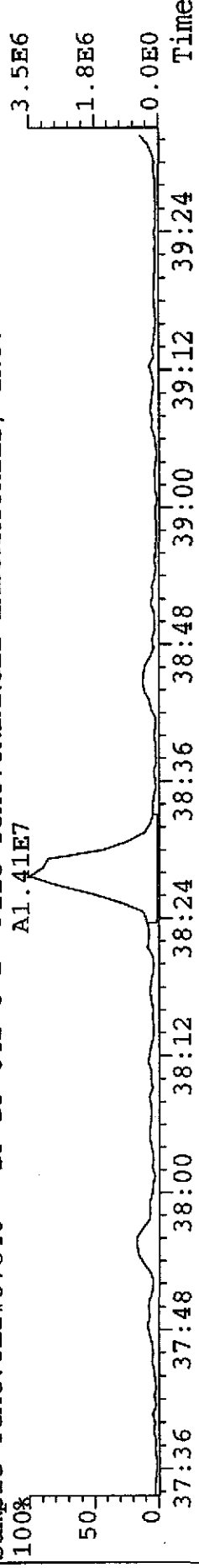
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-674 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

419.8220 S:14 F:4 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.

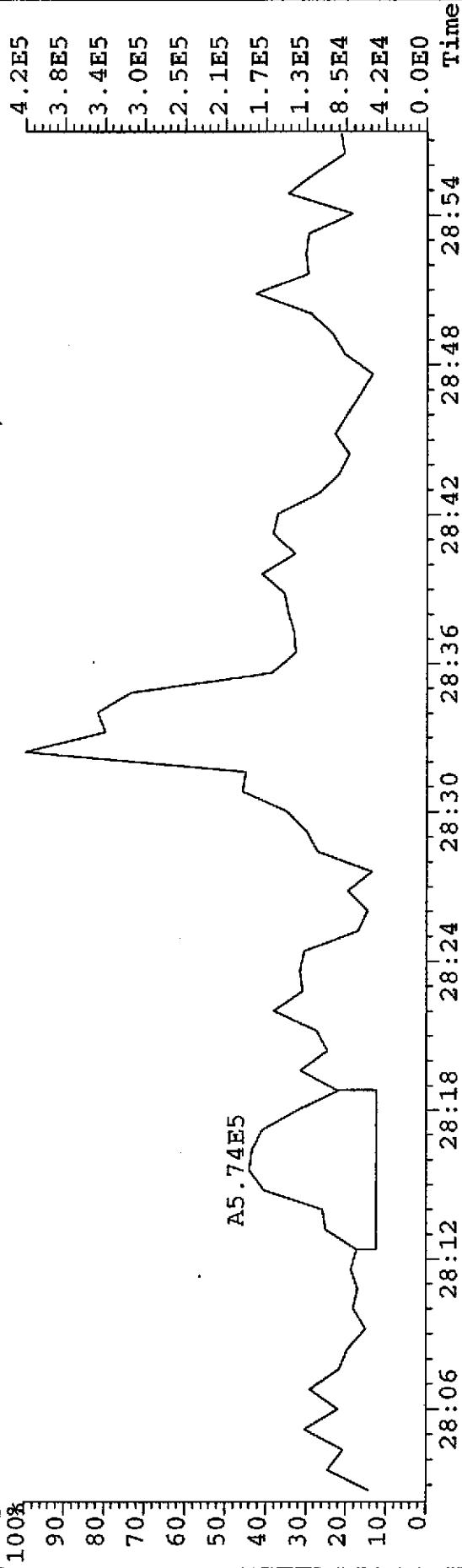


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File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

319.8965 S:14 F:2 Exp:NDB5US

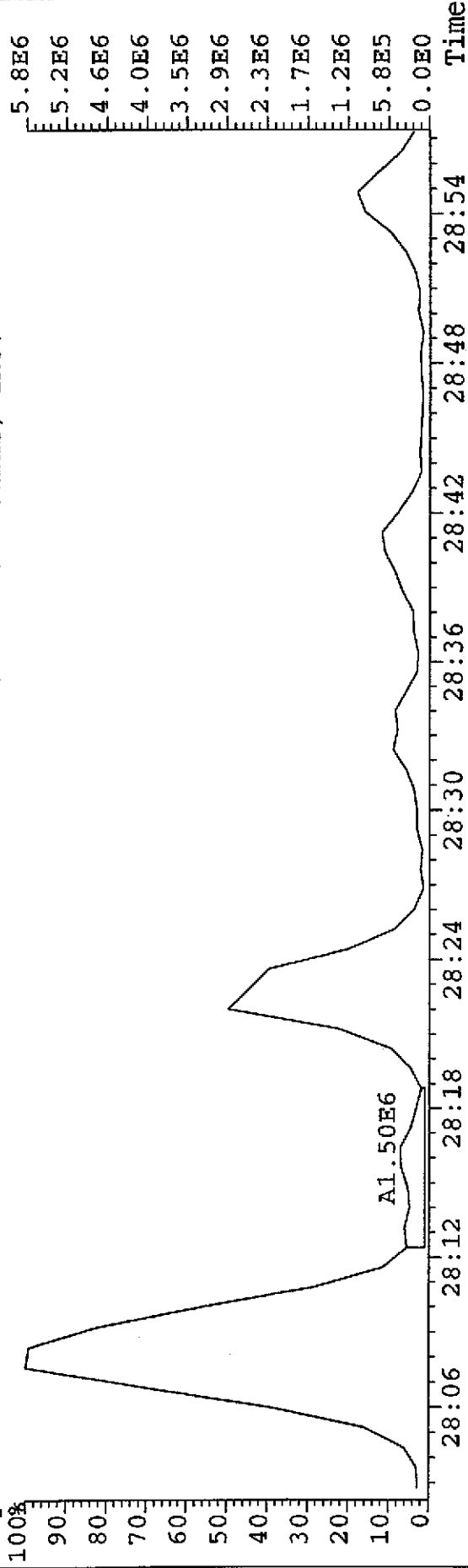
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

321.8936 S:14 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.

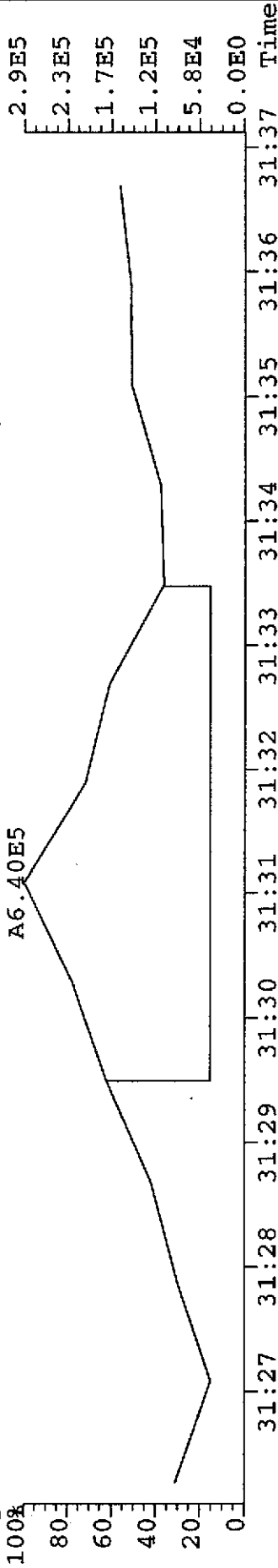


File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

355.8546 S:14 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.

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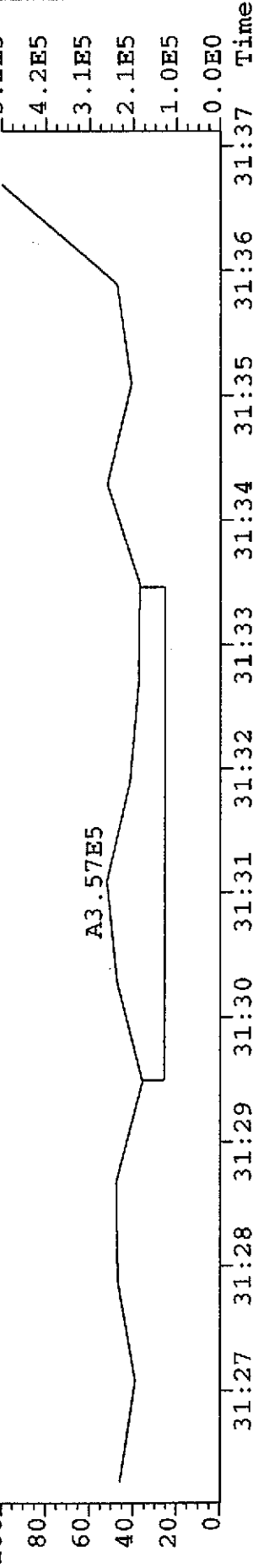


File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

357.8516 S:14 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.

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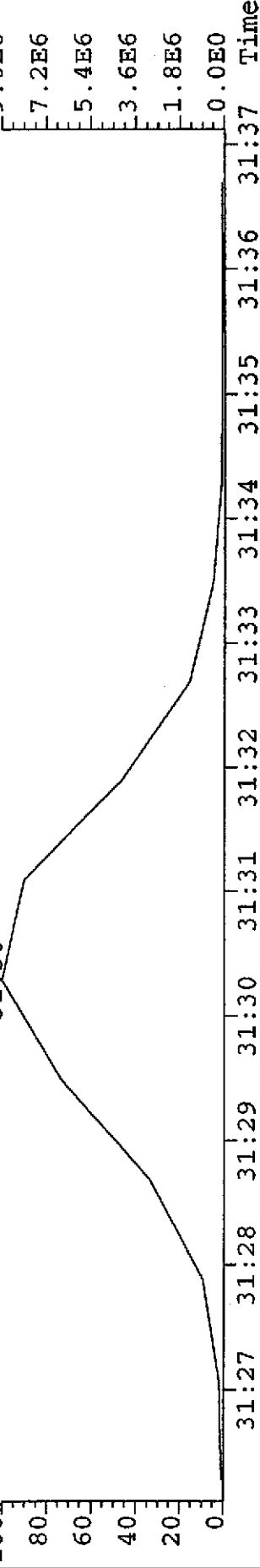


File:W1082 #1-798 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

367.8949 S:14 F:2 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.

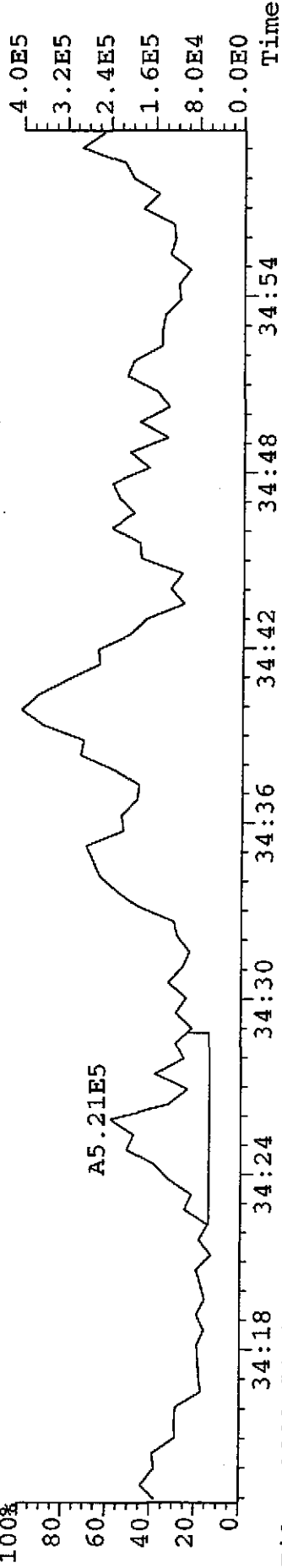
100% 31.30



File:W1082 #1-422 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

389.8156 S:14 F:3 Exp:NDB5US

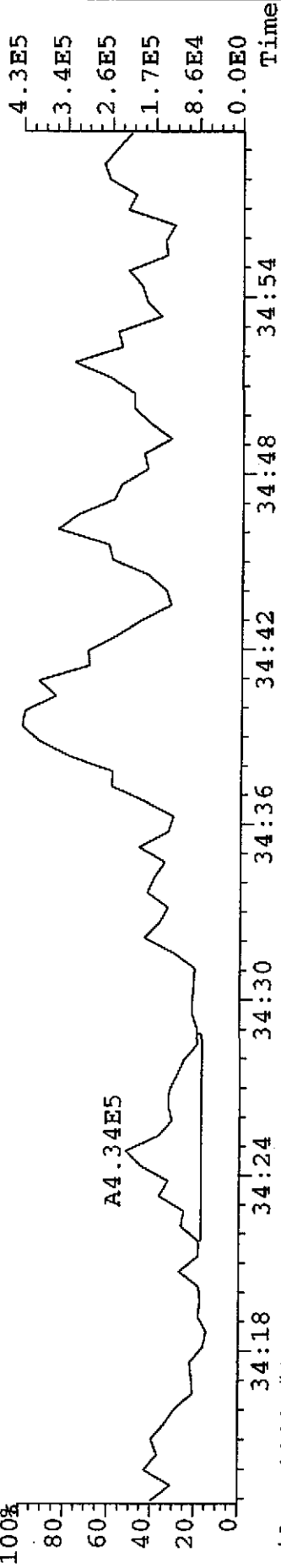
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-422 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

391.8127 S:14 F:3 Exp:NDB5US

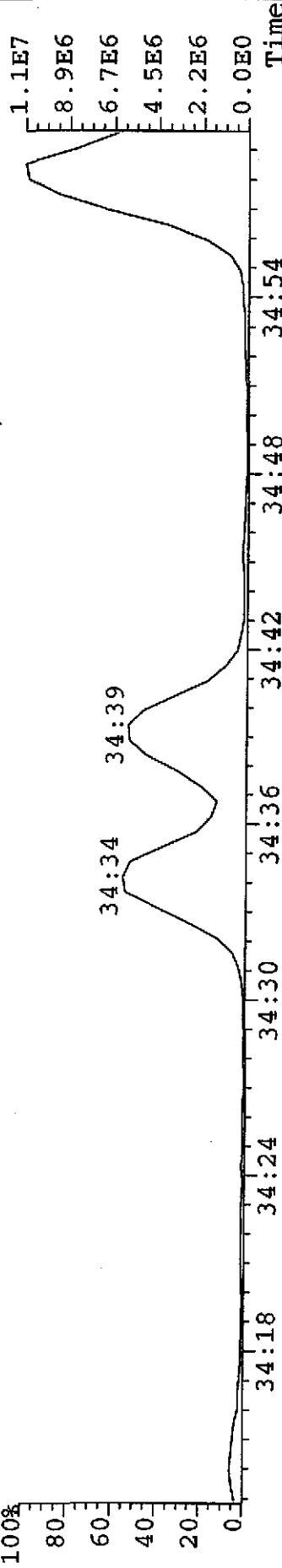
Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



File:W1082 #1-422 Acq:18-JUL-2002 02:17:57 GC EI+ Voltage SIR 70S

403.8529 S:14 F:3 Exp:NDB5US

Sample Text:TLI#57840 DF-DP-642 0-2' File Text:TRIANGLE LABORATORIES, INC.



InitialDate...

Data Review By:

JK 7/18/02

Channel specific noise levels computed from 'NL' heights.

Page No. 1
07/18/2002

Listing of P022562B.dbf
Matched GC Peaks / Ratio / Ret. Time

Compound/

M_Z.... GC.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			0.793-1.106		
304-306	DC NL	Height	0.15	0.07	0.08		
		19:06 RO 6.28	10.05	8.67	1.38	0.804	
		19:13 RO 6.78	46.83	40.81	6.02	0.809	
		19:22 RO 0.98	1.15	0.57	0.58	0.815	J
		19:28 RO 2.22	0.29	0.20	0.09	0.819	J
		19:34 0.70	0.80	0.33	0.47	0.823	J
		19:47 RO 0.44	4.18	1.27	2.91	0.832	
		19:52 0.77	30.48	13.22	17.26	0.836	
		19:58 RO 0.57	1.02	0.37	0.65	0.840	J
		20:12 0.73	39.87	16.88	22.99	0.850	
		20:20 0.67	14.03	5.65	8.38	0.856	
		20:27 0.71	82.71	34.35	48.36	0.860	
		20:38 0.81	9.93	4.45	5.48	0.868	
		20:53 0.77	49.45	21.57	27.88	0.879	
		21:03 0.74	260.60	110.80	149.80	0.886	
		21:10 0.76	30.86	13.32	17.54	0.891	
		21:18 0.74	346.93	147.46	199.47	0.896	
		21:26 0.67	42.25	16.90	25.35	0.902	
		21:50 0.74	214.72	91.57	123.15	0.919	
		22:05 0.69	26.86	10.98	15.88	0.929	
		22:20 0.73	400.23	169.20	231.03	0.940	
		22:34 0.74	210.49	89.75	120.74	0.950	
		22:42 0.68	14.90	6.02	8.88	0.955	
		22:50 0.73	127.73	54.05	73.68	0.961	
		23:05 RO 0.52	3.57	1.22	2.35	0.971	
		23:13 0.76	53.12	22.99	30.13	0.977	
		23:21 RO 0.64	1.56	0.61	0.95	0.982	J
		23:38 0.73	49.79	20.96	28.83	0.994	
		23:46 0.75	833.00	356.66	476.34	1.000	2378-TCDF AN E
		24:00 0.75	185.80	79.42	106.38	1.010	
		24:25 0.75	557.02	239.08	317.94	1.027	
		24:33 RO 0.53	0.84	0.29	0.55	1.033	J
		24:41 0.68	9.07	3.66	5.41	1.039	
		25:08 RO 1.07	1.86	0.96	0.90	1.058	
		25:16 0.75	25.03	10.70	14.33	1.063	
		25:28 RO 0.64	11.78	4.58	7.20	1.072	
		25:41 0.68	22.59	9.17	13.42	1.081	
		25:49 RO 0.46	1.34	0.42	0.92	1.086	J
		26:03 0.66	8.85	3.51	5.34	1.096	
		26:17 0.76	28.22	12.19	16.03	1.106	
304-306		39 Peaks	3,759.80				
13C12-TCDF		0.65-0.89			0.958-1.042		
316-318	DC NL	Height	0.22	0.08	0.14		
	DC WL 18:48 RO	0.29	0.36		0.791		
	DC WL 19:00 RO	0.43	1.83		0.799		

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	19:14	RO	0.61	0.29			0.809		
DC	WL	19:22		0.67	7.53			0.815		
DC	WL	19:30	RO	0.21	0.91			0.820		
DC	WL	19:35	RO	1.23	0.67			0.824		
DC	WL	19:58	RO	0.41	0.55			0.840		
DC	WL	20:02	RO	0.26	1.22			0.843		
DC	WL	20:17		0.85	0.37			0.853		
DC	WL	20:22	RO	0.56	1.47			0.857		
DC	WL	20:32		0.65	9.06			0.864		
DC	WL	20:43	RO	1.50	1.25			0.872		
DC	WL	20:54	RO	0.58	0.30			0.879		
DC	WL	21:00	RO	0.25	0.40			0.884		
DC	WL	21:10	RO	0.94	0.66			0.891		
DC	WL	21:19	RO	0.43	0.66			0.897		
DC	WL	21:23	RO	1.00	0.48			0.900		
DC	WL	21:32	RO	0.62	0.76			0.906		
DC	WL	21:40	RO	0.42	0.54			0.912		
DC	WL	21:43	RO	1.14	0.30			0.914		
DC	WL	21:46	RO	0.60	0.24			0.916		
DC	WL	21:50	RO	1.60	0.52			0.919		
DC	WL	21:58	RO	0.20	1.63			0.924		
DC	WL	22:09	RO	0.47	0.25			0.932		
DC	WL	22:18	RO	0.63	4.16			0.938		
DC	WL	22:25	RO	0.36	0.91			0.943		
DC	WL	22:33	RO	0.43	1.64			0.949		
DC	WL	22:43		0.88	0.15			0.956		
DC	SN	22:48	RO	0.47	0.50			0.959		
DC	SN	22:58	RO	3.08	0.49			0.966		
		23:25		0.85	0.61	0.28	0.33	0.985		
		23:46		0.75	284.60	121.54	163.06	1.000	13C12-2378-TCDF	ISO
			Height		71.29	30.27	41.02			
		24:06	RO	2.67	0.55	0.40	0.15	1.014		
		24:21		0.80	4.59	2.04	2.55	1.025		
		24:29	RO	2.03	1.21	0.81	0.40	1.030		
		24:38	RO	0.22	1.22	0.22	1.00	1.036		
		24:41	RO	0.24	1.57	0.30	1.27	1.039		
DC	WH	24:56	RO	1.72	0.49			1.049		
DC	WH	25:10	RO	0.30	0.69			1.059		
DC	WH	25:39	RO	2.78	0.68			1.079		
DC	WH	25:46	RO	0.15	0.47			1.084		
DC	WH	25:54		0.78	0.66			1.090		
DC	WH	26:08		0.65	0.56			1.100		
DC	WH	26:09	RO	0.36	0.38			1.100		
DC	WH	26:28	RO	1.44	0.83			1.114		
316-318			7 Peaks		294.35					

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

13C12-TCDD				0.65-0.89				0.910-1.090		
332-334	DC	NL		Height	0.30	0.24	0.06			
	DC	WL	19:35	0.70	0.34			0.877		
	DC	SN	20:20	0.65	0.38			0.910		

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	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
		20:36	RO	0.48	0.34			0.922			
		20:43	RO	3.78	0.43	0.34	0.09	0.928			
		20:48	RO	1.34	0.89	0.51	0.38	0.931			
DC	SN	20:57	RO	3.50	0.72			0.938			
DC	SN	21:42	RO	0.47	0.53			0.972			
DC	SN	21:50	RO	1.08	0.27			0.978			
DC	SN	21:55	RO	1.04	0.53			0.981			
		22:20		0.81	196.32	88.09	108.23	1.000	13C12-2378-TCDD	IS1	
				Height	52.40	23.19	29.21				
N		22:37		0.79	360.99	159.81	201.18	1.013	13C12-1234-TCDD	RS1	
DC	SN	23:16	RO	3.80	0.48			1.042			
DC	SN	23:21	RO	1.64	0.66			1.046			
		23:53	RO	2.67	1.43	1.04	0.39	1.069			
DC	SN	24:09	RO	1.74	0.96			1.081			
		24:18	RO	1.07	3.34	1.73	1.61	1.088			
DC	WH	24:26	RO	1.90	0.29			1.094			
DC	WH	24:36	RO	10.27	6.99			1.101			
DC	WH	24:41	RO	2.07	1.26			1.105			
DC	WH	24:46	RO	3.86	1.07			1.109			
DC	WH	24:52	RO	8.11	0.82			1.113			
DC	WH	25:22	RO	3.53	0.77			1.136			
DC	WH	25:28	RO	2.83	1.11			1.140			

332-334

6 Peaks

563.40

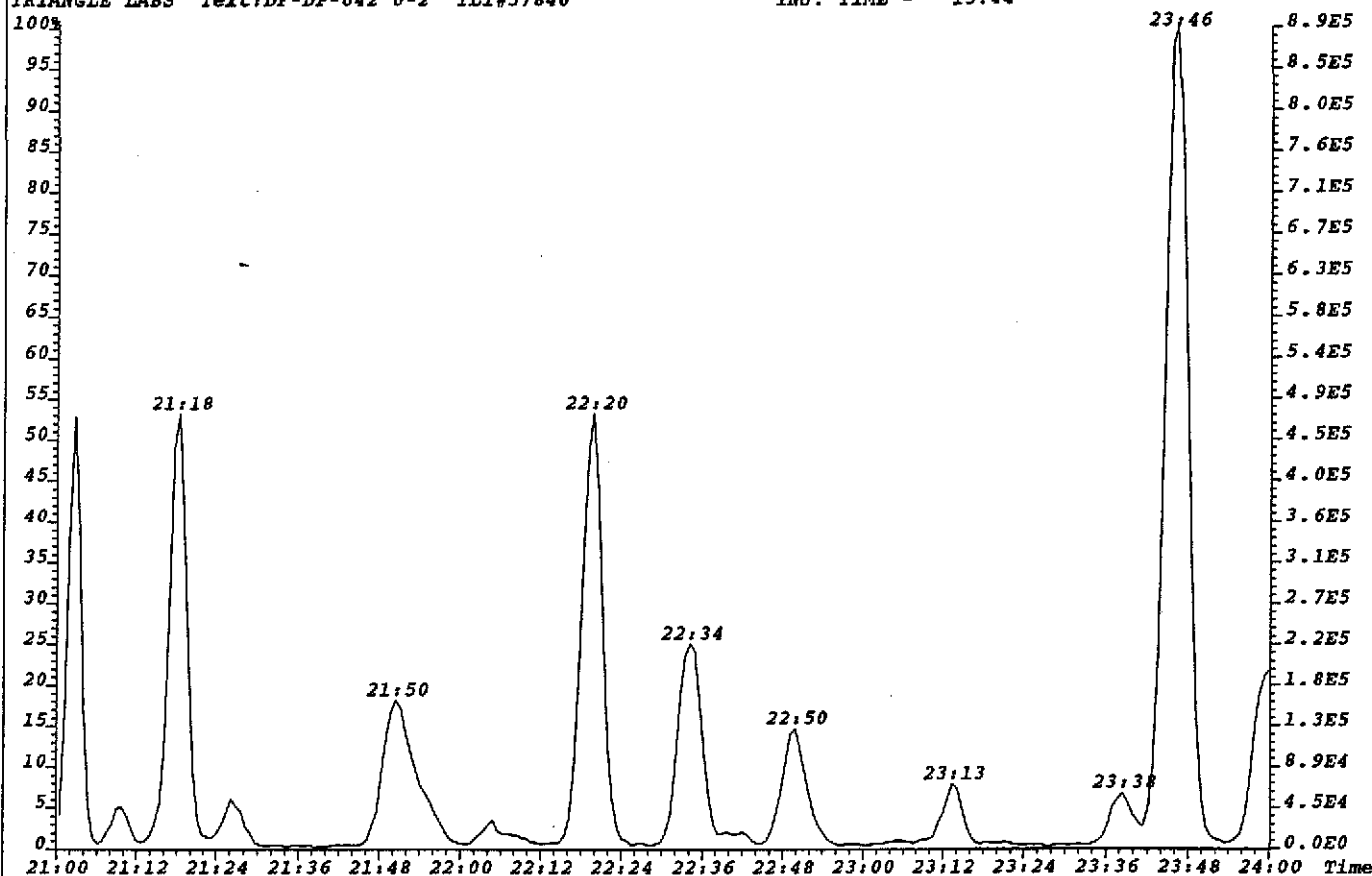
Column Description..... "Why" Code Description..... QC Log Desc.....

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 ***

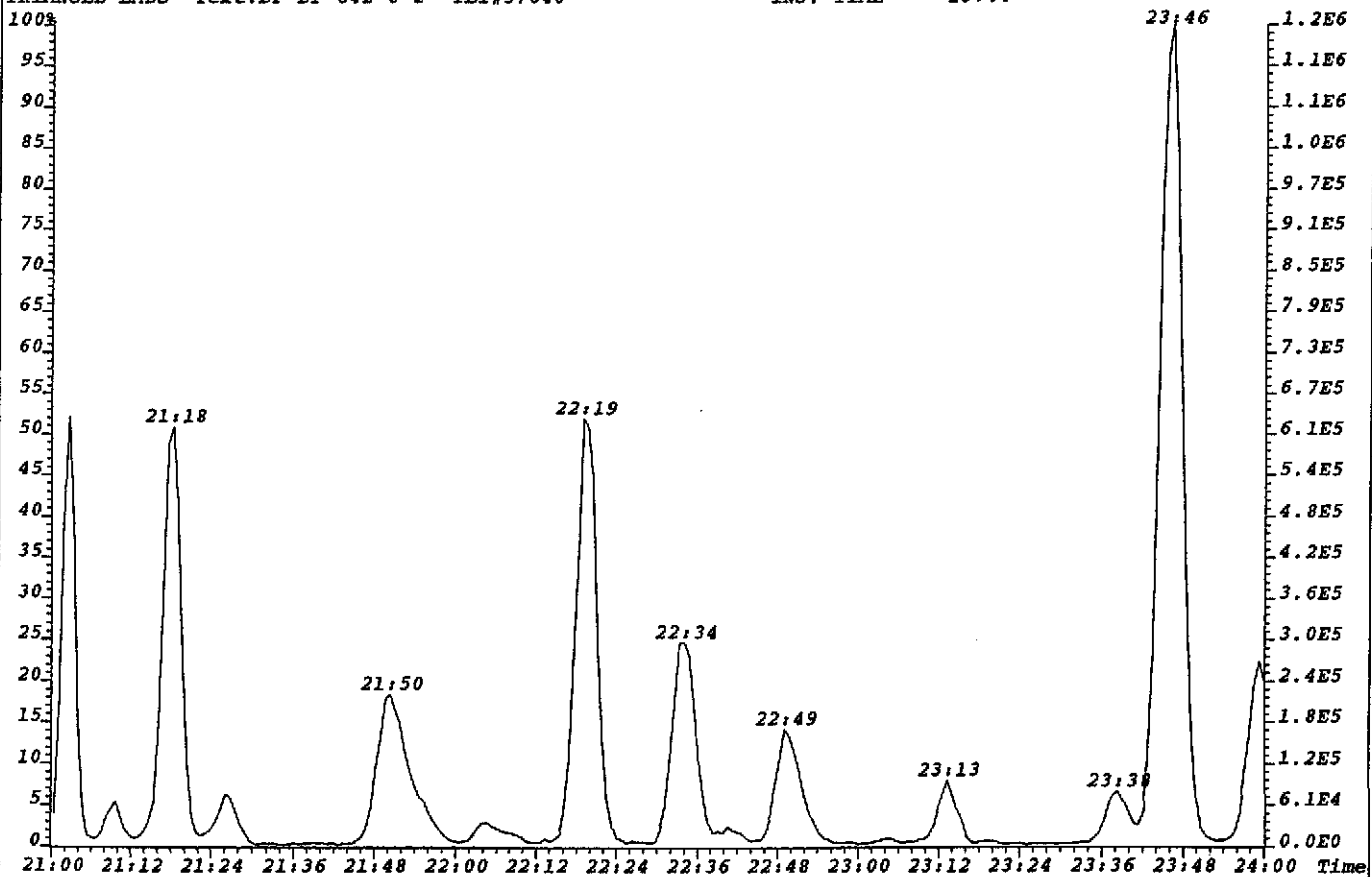
File:P022562 #1-3025 Acq:18-JUL-2002 13:44:00 EI+ Voltage SIR 70P
303.9016 GC:DB225 Exp:none
TRIANGLE LABS Text:DF-DP-642 0-2' TLI#57840

INJ. TIME = 13:44

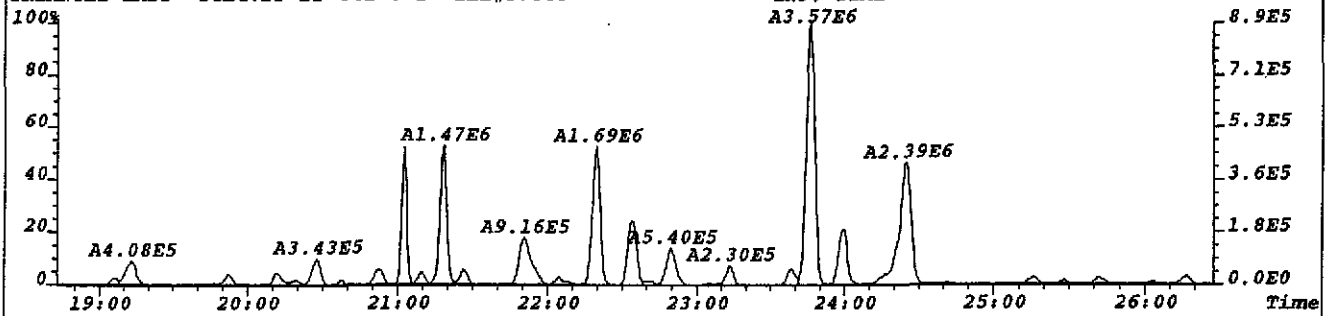


File:P022562 #1-3025 Acq:18-JUL-2002 13:44:00 EI+ Voltage SIR 70P
305.8987 GC:DB225 Exp:none
TRIANGLE LABS Text:DF-DP-642 0-2' TLI#57840

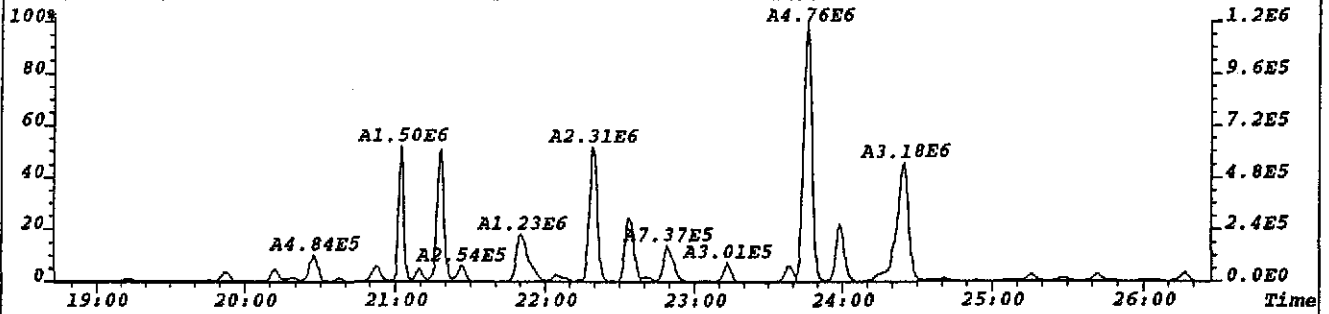
INJ. TIME = 13:44



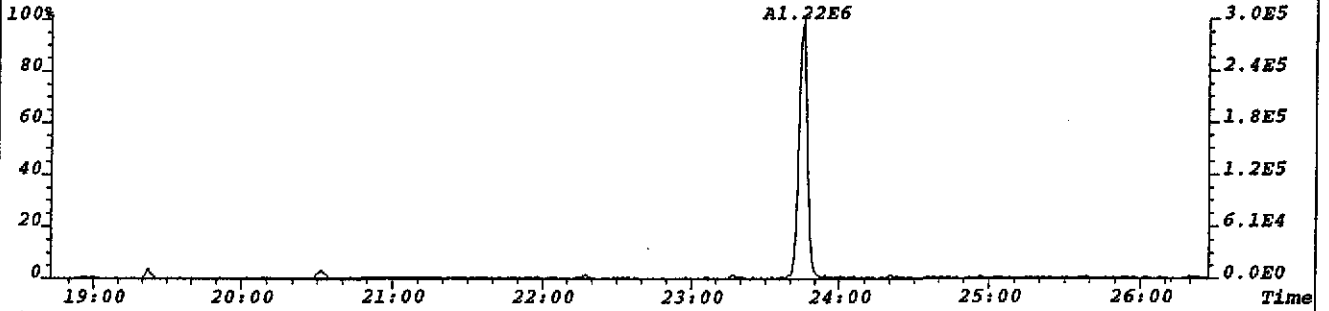
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303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,356.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642 0-2' TLI#57840 INJ. TIME = 13:44



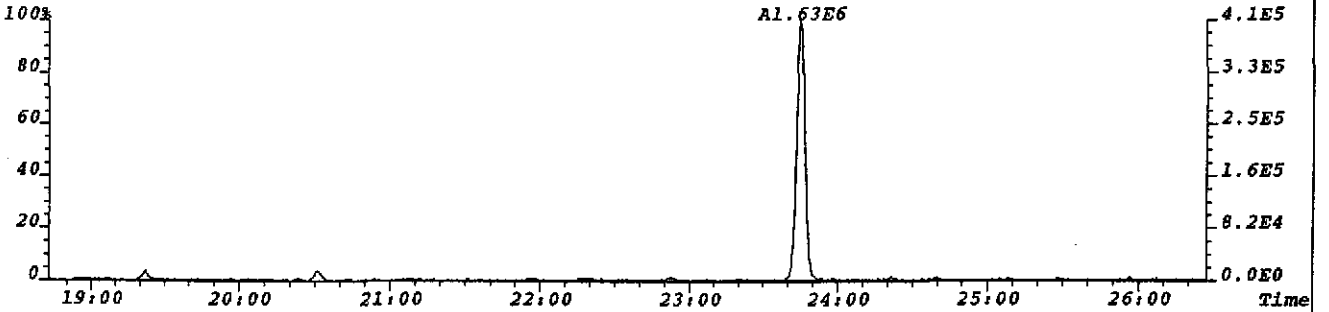
File:P022562 #1-3025 Acq:18-JUL-2002 13:44:00 EI+ Voltage SIR 70P Noise:103
305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,412.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642 0-2' TLI#57840 INJ. TIME = 13:44



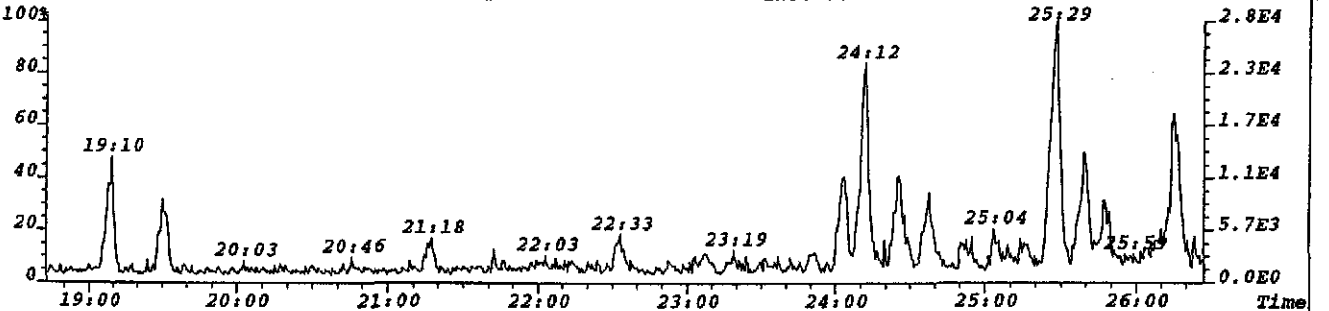
File:P022562 #1-3025 Acq:18-JUL-2002 13:44:00 EI+ Voltage SIR 70P Noise:95
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,380.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642 0-2' TLI#57840 INJ. TIME = 13:44



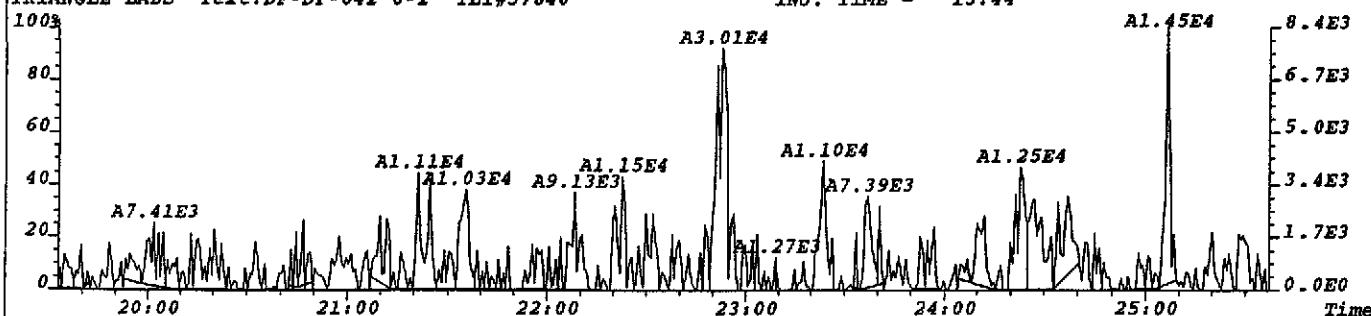
File:P022562 #1-3025 Acq:18-JUL-2002 13:44:00 EI+ Voltage SIR 70P Noise:178
317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,712.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642 0-2' TLI#57840 INJ. TIME = 13:44



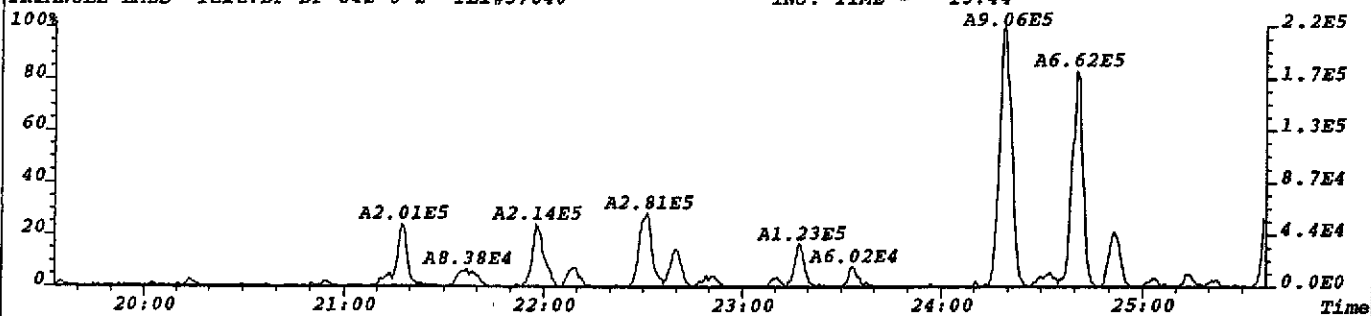
File:P022562 #1-3025 Acq:18-JUL-2002 13:44:00 EI+ Voltage SIR 70P
375.8364 Exp:DB225
TRIANGLE LABS Text:DF-DP-642 0-2' TLI#57840 INJ. TIME = 13:44



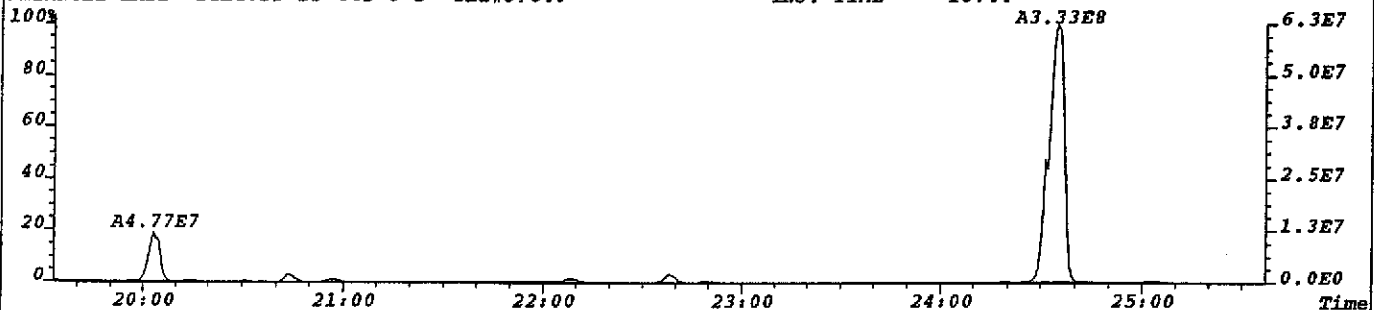
File:P022562 #1-3025 Acq:18-JUL-2002 13:44:00 EI+ Voltage SIR 70P Noise:151
319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,604.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642 0-2' TLI#57840 INJ. TIME = 13:44



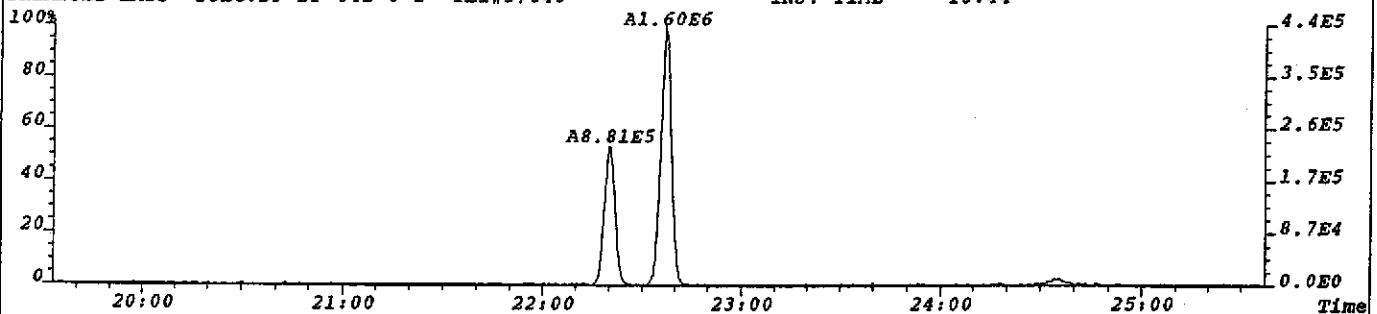
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321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,404.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642 0-2' TLI#57840 INJ. TIME = 13:44



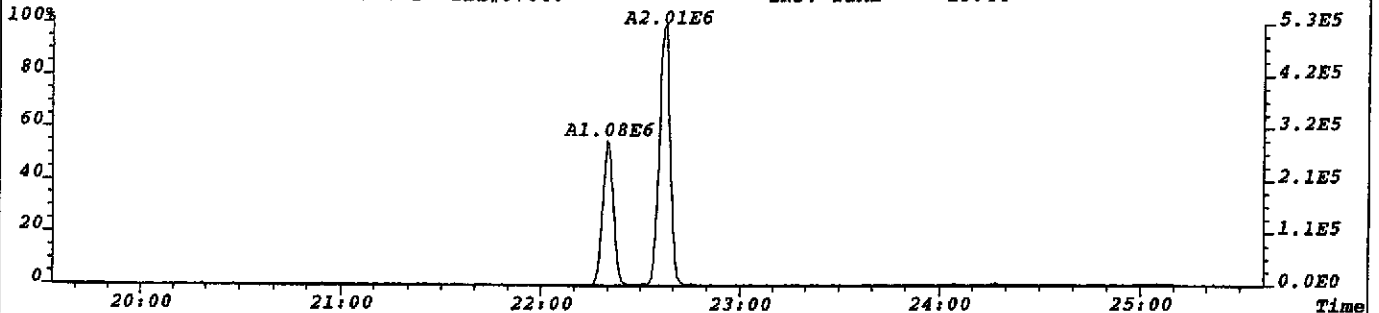
File:P022562 #1-3025 Acq:18-JUL-2002 13:44:00 EI+ Voltage SIR 70P Noise:94
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,376.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642 0-2' TLI#57840 INJ. TIME = 13:44



File:P022562 #1-3025 Acq:18-JUL-2002 13:44:00 EI+ Voltage SIR 70P Noise:302
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1208.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642 0-2' TLI#57840 INJ. TIME = 13:44

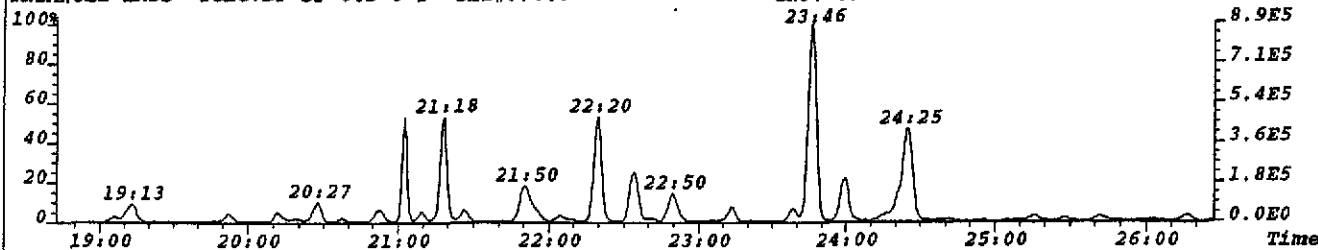


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333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,320.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:DF-DP-642 0-2' TLI#57840 INJ. TIME = 13:44



File:P022562 #1-3025 Acq:18-JUL-2002 13:44:00 EI+ Voltage SIR 70P
303.9016 Exp:DB225

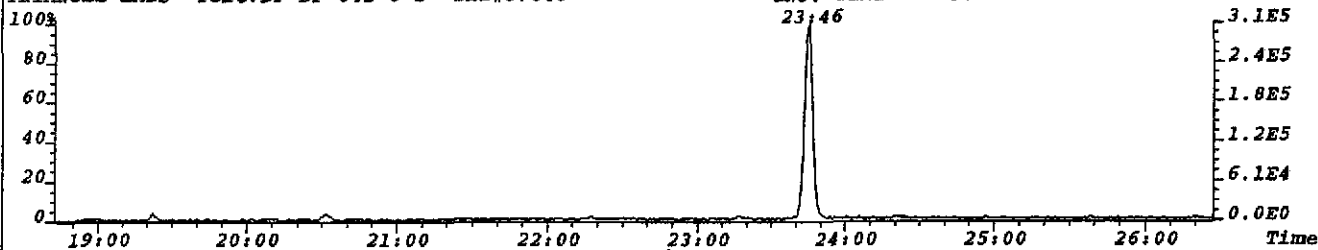
TRIANGLE LABS Text:DF-DP-642 0-2' TLI#57840



File:P022562 #1-3025 Acq:18-JUL-2002 13:44:00 EI+ Voltage SIR 70P

315.9419 Exp:DB225

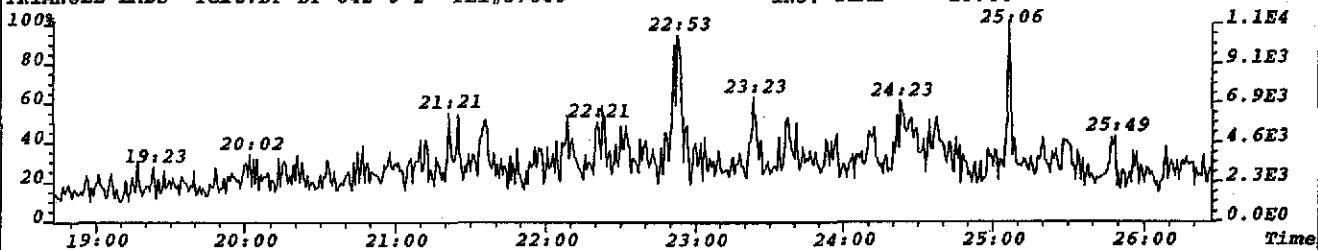
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319.8965 Exp:DB225

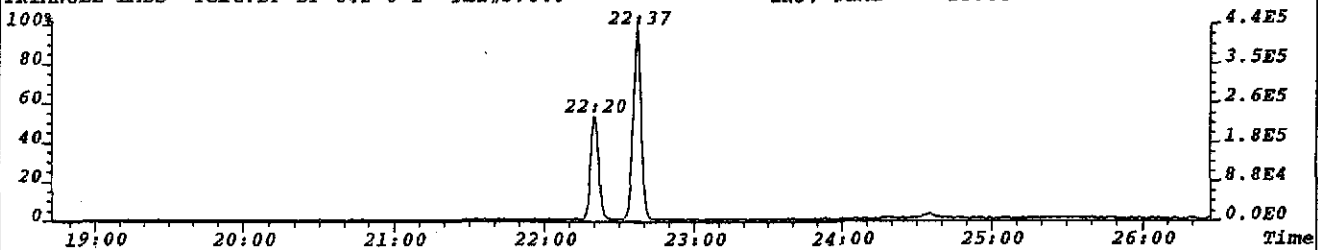
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331.9368 Exp:DB225

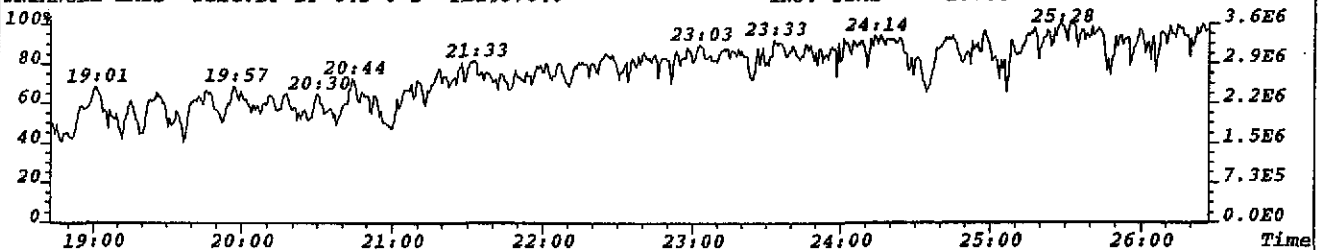
TRIANGLE LABS Text:DF-DP-642 0-2' TLI#57840



File:P022562 #1-3025 Acq:18-JUL-2002 13:44:00 EI+ Voltage SIR 70P

292.9825 Exp:DB225

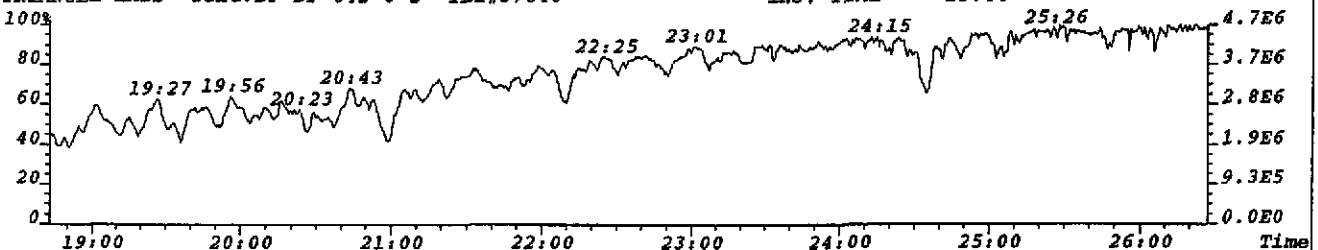
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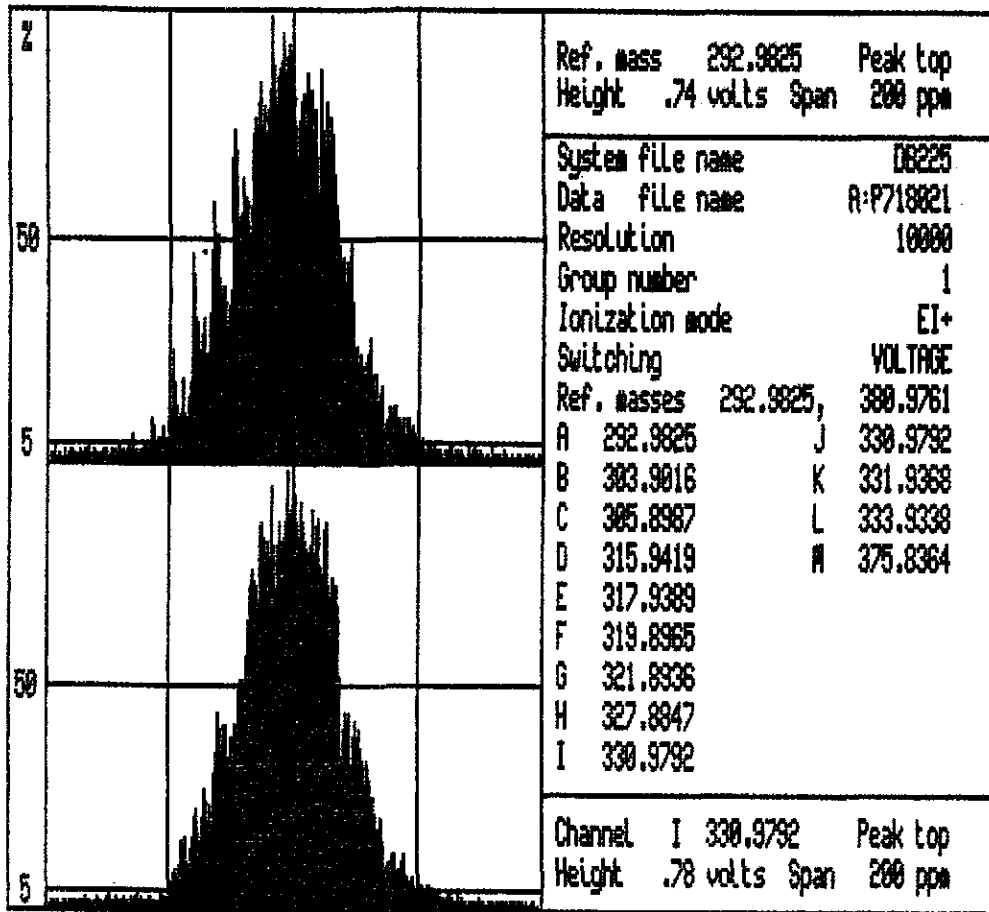


File:P022562 #1-3025 Acq:18-JUL-2002 13:44:00 EI+ Voltage SIR 70P

330.9792 Exp:DB225

TRIANGLE LABS Text:DF-DP-642 0-2' TLI#57840





Martin & Slagle

TLI Project: **57840**
 Client Sample: **DUPLICATE**

1613, Revision B PCDD/PCDF Analysis (c)
 Analysis File: **T023575**

Client Project: Dioxin/Furan Analysis			
Sample Matrix: SOLID	Date Received: 07/11/2002	Spike File: SP161B2S	
TLI ID: 330-27-13	Date Extracted: 07/12/2002	ICal: TF5612B	
	Date Analyzed: 07/17/2002	ConCal: TB23571	
Sample Size: 12.100 g	Dilution Factor: n/a	% Moisture: 17.1	
Dry Weight: 10.031 g	Blank File: W108202	% Lipid: n/a	
GC Column: DB-5	Analyst: CGK	% Solids: 82.9	

Analytes	Conc. (pg/g)	DL	Ratio	RT	RRT	Flags
2,3,7,8-TCDD	134		0.77	27:30	1.001	—
1,2,3,7,8-PeCDD	1500		1.57	31:40	1.001	—
1,2,3,4,7,8-HxCDD	429		1.29	34:46	1.000	—
1,2,3,6,7,8-HxCDD	10980		1.16	34:52	1.000	SE_
1,2,3,7,8,9-HxCDD	6200		1.25	35:11	1.010	E_
1,2,3,4,6,7,8-HpCDD	17970		1.00	38:17	1.000	SE_
1,2,3,4,6,7,8,9-OCDD	36400		0.86	42:10	1.000	SE_
2,3,7,8-TCDF	773		0.82	26:50	1.002	E_
1,2,3,7,8-PeCDF	452		1.54	30:40	1.001	—
2,3,4,7,8-PeCDF	3320		1.51	31:20	1.001	XE_
1,2,3,4,7,8-HxCDF	10500		1.09	34:03	1.000	SE_
1,2,3,6,7,8-HxCDF	5500		1.25	34:11	1.000	E_
2,3,4,6,7,8-HxCDF	6080		1.25	34:39	1.000	E_
1,2,3,7,8,9-HxCDF	124		1.06	35:27	1.000	—
1,2,3,4,6,7,8-HpCDF	15680		1.01	37:23	1.000	SE_
1,2,3,4,7,8,9-HpCDF	4790		1.05	38:47	1.000	E_
1,2,3,4,6,7,8,9-OCDF	47450		0.97	42:24	1.006	SE_

Totals	Conc. (pg/g)	Number	DL	Flags
Total TCDD	4270	13		E_
Total PeCDD	24640	10		E_
Total HxCDD	50090	9		QSE
Total HpCDD	31200	2		SE_
Total TCDF	6210	18		E_
Total PeCDF	25730	18		XE_
Total HxCDF	38770	9		SE_
Total HpCDF	39030	3		SE_

TLI Project: 57840
 Client Sample: DUPLICATE

Toxicity Equivalents Report
 Analysis File: T023575

Client Project:	Dioxin/Furan Analysis				
Sample Matrix:	SOLID	Date Received:	07/11/02	Spike File:	SP161B2S
TLI ID:	330-27-13	Date Extracted:	07/12/02	ICal:	TF5612B
		Date Analyzed:	07/17/02	ConCal:	TB23571
Sample Size:	12.100 g	Dilution Factor:	1	% Moisture:	17.1
Dry Weight:	10.031 g	Blank File:	W108202	% Lipid:	n/a
GC Column:	DB-5	Analyst:	CGK	% Solids:	82.9

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	134	x	1.	=	134
1,2,3,7,8-PeCDD	1500	x	0.5	=	750.0
1,2,3,4,7,8-HxCDD	429	x	0.1	=	42.9
1,2,3,6,7,8-HxCDD	10980	x	0.1	=	1098.0
1,2,3,7,8,9-HxCDD	6200	x	0.1	=	620.0
1,2,3,4,6,7,8-HpCDD	17970	x	0.01	=	179.70
1,2,3,4,6,7,8,9-OCDD	36400	x	0.001	=	36.400
TOTAL PCDD					2861
2,3,7,8-TCDF	93.1	x	0.1	=	9.31
1,2,3,7,8-PeCDF	452	x	0.05	=	22.6
2,3,4,7,8-PeCDF	3320	x	0.5	=	1660
1,2,3,4,7,8-HxCDF	10500	x	0.1	=	1050.0
1,2,3,6,7,8-HxCDF	5500	x	0.1	=	550.0
2,3,4,6,7,8-HxCDF	6080	x	0.1	=	608.0
1,2,3,7,8,9-HxCDF	124	x	0.1	=	12.4
1,2,3,4,6,7,8-HpCDF	15680	x	0.01	=	156.80
1,2,3,4,7,8,9-HpCDF	4790	x	0.01	=	47.90
1,2,3,4,6,7,8,9-OCDF	47450	x	0.001	=	47.450
TOTAL PCDF					4164

Total EPA TEFs, 1989a: 7025 pg/g

InitialDate...

Data Review By:

PK 7/18/02

Channel specific noise levels computed from 'NL' heights.

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07/18/2002

Listing of T023575B.dbf
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			0.881-1.070		
304-306	DC	NL	Height	0.18	0.09	0.09		
			23:38	0.79	46.81	20.59	26.22	0.882
			24:15	0.81	1,904.76	850.69	1,054.07	0.905
			24:28	0.81	2,542.50	1,139.98	1,402.52	0.914
			24:58	0.82	3,631.06	1,638.23	1,992.83	0.932
			25:11	0.82	13,890.96	6,245.06	7,645.90	0.940
			25:27	0.82	2,628.54	1,181.97	1,446.57	0.950
			25:49	0.82	1,890.08	854.39	1,035.69	0.964
			26:02	0.80	830.12	369.61	460.51	0.972
			26:12	0.82	794.17	356.65	437.52	0.978
			26:25	0.80	1,541.07	684.37	856.70	0.986
			26:39	0.81	388.34	173.96	214.38	0.995
			26:50	0.82	4,828.76	2,177.16	2,651.60	1.002
			27:13	0.81	340.25	152.39	187.86	1.016
			27:28	0.79	212.61	93.64	118.97	1.026
	X		27:35	0.80	593.14	262.88	330.26	1.030
	X		27:50	0.81	1,254.56	562.10	692.46	1.039
	X		28:09	0.82	1,288.44	582.42	706.02	1.051
			28:35	0.77	137.91	60.10	77.81	1.067
	DC	WH	28:45	0.82	1,176.23			1.073
	DC	WH	29:00	0.80	169.83			1.083
304-306			18 Peaks		38,744.08			

13C12-TCDF			0.65-0.89			0.945-1.131		
316-318	DC	NL	Height	0.17	0.08	0.09		
	DC	WL	25:11 RO	2.64	13.31		0.940	
			25:48 RO	1.66	2.31	1.44	0.87	0.963
			26:05 RO	1.70	2.86	1.80	1.06	0.974
			26:24 RO	0.95	10.55	5.14	5.41	0.986
			26:47	0.75	1,175.37	502.58	672.79	1.000
					Height	299.24	128.07	171.17
			27:07	0.72	16.42	6.88	9.54	1.012
			29:00 RO	0.01	34.01	0.47	33.54	1.083
316-318			6 Peaks		1,241.52			

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

TCDD			0.65-0.89			0.906-1.041		
320-322	DC	NL	Height	0.12	0.06	0.06		
			25:02	0.76	772.53	333.73	438.80	0.911
			25:25	0.76	683.58	295.89	387.69	0.925
			25:41	0.76	831.80	360.14	471.66	0.935
			26:20	0.77	5,027.10	2,190.35	2,836.75	0.958
			26:36	0.77	3,104.27	1,347.94	1,756.33	0.968
			26:59	0.77	1,127.05	489.39	637.66	0.982
			27:15	0.77	1,306.97	570.33	736.64	0.992

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.

			27:24	0.76	1,946.10	839.62	1,106.48	0.997			E
			27:30	0.77	575.07	250.25	324.82	1.001	2378-TCDD	AN	
			27:39	0.77	444.63	193.98	250.65	1.006			
			27:49	0.79	1,352.93	596.31	756.62	1.012			
			28:01	0.77	412.47	180.06	232.41	1.019			
			28:27	0.76	785.62	340.14	445.48	1.035			
	DC	WH	29:00	RO	1.76	57.72		1.055			
320-322			13 Peaks			18,370.12					

37C1-TCDD								0.927-1.073			
328	DC	NL		Height	0.08	0.08					
	DC	WL	25:02		4.11			0.911			
	DC	WL	25:11		0.88			0.916			
	DC	WL	25:17		1.02			0.920			
	DC	WL	25:25		4.69			0.925			
			25:42		4.07	4.07		0.935			
			25:52		1.09	1.09		0.941			
			26:09		420.56	420.56		0.951			
			26:20		27.44	27.44		0.958			
			26:36		16.33	16.33		0.968			
			26:59		5.84	5.84		0.982			
			27:16		6.30	6.30		0.992			
M			27:30		82.10	82.10		1.001	37C1-TCDD	CLS	
			27:39		3.03	3.03		1.006			
			27:52		652.44	652.44		1.014			
			28:15		1.10	1.10		1.028			
			28:27		4.17	4.17		1.035			
			28:47		11.33	11.33		1.047			
			29:00		2.68	2.68		1.055			
328			14 Peaks			1,238.48					

13C12-TCDD					0.65-0.89			0.921-1.066			
332-334	DC	NL		Height	0.23	0.15	0.08				
			26:22	RO	1.58	2.06	1.26	0.80	0.959		
			27:18		0.82	910.57	410.21	500.36	0.993	13C12-1234-TCDD	RS1
			27:29		0.80	807.69	359.15	448.54	1.000	13C12-2378-TCDD	IS1
						Height	207.76	91.51	116.25		
			28:31	RO	1.19	1.86	1.01	0.85	1.038		
	DC	SN	28:45	RO	1.10	1.41		1.046			
332-334			4 Peaks			1,722.18					

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

PeCDF					1.32-1.78			0.911-1.036			
340-342	DC	NL		Height	0.13	0.06	0.07				
			28:43		1.52	14,604.48	8,820.42	5,784.06	0.917		E
			29:00		1.51	4,912.49	2,958.98	1,953.51	0.926		
			29:16		1.72	50.16	31.75	18.41	0.935		
			29:25		1.46	377.60	224.36	153.24	0.939		
			29:50		1.47	44,684.10	26,590.40	18,093.70	0.953		E
			29:59		1.54	12,150.56	7,373.63	4,776.93	0.957		E
			30:10		1.54	5,456.83	3,304.27	2,152.56	0.963		

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.
					30:17		1.51	6,503.17	3,915.96	2,587.21	0.967			
					30:23		1.53	12,903.38	7,800.25	5,103.13	0.970			E
					30:35		1.52	2,769.59	1,671.42	1,098.17	0.977			
					30:40		1.54	2,510.88	1,524.04	986.84	1.001	12378-PeCDF	AN	
					30:56		1.52	6,426.61	3,875.56	2,551.05	0.988			
	X				31:20		1.51	18,806.83	11,311.00	7,495.83	1.001	23478-PeCDF	AN	E
					31:29		1.53	10,710.46	6,469.09	4,241.37	1.005			
					31:48		1.51	88.18	53.08	35.10	1.015			
					31:54		1.50	164.97	99.10	65.87	1.019			
					32:01		1.51	1,087.41	654.09	433.32	1.022			
					32:15		1.49	375.41	224.60	150.81	1.030			
340-342					18 Peaks			144,583.11						

13C12-PeCDF	DC	NL	Height	0.11	0.05	0.06	0.809-1.128
352-354			28:43 RO	2.07	12.11	3.94	0.917
			29:00 RO	0.12	40.65	4.41	0.926
			29:44 RO	0.76	31.64	13.66	0.949
			30:10 RO	0.33	24.76	6.13	0.963
			30:17 RO	0.52	12.17	4.15	0.967
			30:24 RO	0.69	21.32	8.70	0.971
M			30:39	1.35	977.00	562.00	1.000 13C12-PeCDF 123 IS2
			Height		277.29	162.78	114.51
			30:56 RO	0.34	39.46	9.92	29.54 0.988
			31:19	1.43	1,023.26	601.67	1.000 13C12-PeCDF 234 IS3
			Height		308.95	180.77	128.18
			31:32 RO	1.27	15.74	8.81	6.93 1.007
			31:40 RO	0.06	17.40	1.05	16.35 1.011
			31:48 RO	0.44	57.70	17.70	40.00 1.015
			31:53 RO	0.93	37.48	18.04	19.44 1.018
			32:03 RO	0.53	41.39	14.31	27.08 1.023
			32:14 RO	0.91	197.71	94.27	103.44 1.029
352-354			15 Peaks		2,549.79		

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

PeCDD	DC	NL	Height	0.13	0.07	0.06	0.939-1.020
356-358			29:39	1.60	190.07		0.937
	DC	WL	29:55	1.58	20,553.92	12,578.20	7,975.72 0.945
			30:23	1.59	2,733.37	1,676.81	1,056.56 0.960
			30:37	1.58	10,428.80	6,385.19	4,043.61 0.967
			30:45	1.59	9,050.97	5,561.48	3,489.49 0.972
			30:56	1.56	5,743.43	3,504.04	2,239.39 0.977
			31:12	1.58	19,419.40	11,885.40	7,534.00 0.986
			31:22	1.63	745.87	462.79	283.08 0.991
			31:30 RO	1.15	394.83	211.04	183.79 0.995
			31:40	1.57	5,106.09	3,117.83	1,988.26 1.001 12378-PeCDD AN
			31:48	1.60	6,191.13	3,806.55	2,384.58 1.005
			32:07	1.60	3,735.66	2,301.02	1,434.64 1.015
356-358			11 Peaks		84,103.47		

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.

13C12-PeCDD		1.32-1.78			0.737-1.053		
368-370	DC NL	Height	0.12	0.06	0.06		
		29:55	1.71	32.00	20.19	11.81	0.945
		30:23	1.58	5.23	3.20	2.03	0.960
		30:37 RO	2.13	10.62	7.23	3.39	0.967
		30:45 RO	1.90	10.98	7.19	3.79	0.972
		30:56 RO	2.07	6.38	4.30	2.08	0.977
		31:12 RO	1.89	16.44	10.75	5.69	0.986
		31:21	1.39	3.61	2.10	1.51	0.991
		31:32 RO	0.74	2.96	1.26	1.70	0.996
		31:39	1.51	652.03	392.39	259.64	1.000 13C12-PeCDD 123 IS4
		Height	219.59	131.59	88.00		
		31:48	1.53	10.55	6.38	4.17	1.005
		32:08 RO	0.66	8.07	3.21	4.86	1.015
368-370	11 Peaks		758.87				

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

HxCDF		1.05-1.43			0.929-1.007		
374-376	DC NL	Height	28.64	2.84	25.80		
		33:06	1.09	69,827.10	36,374.40	33,452.70	0.934 SE
A		33:16	1.05	9,410.00	4,830.00	4,580.00	0.938 S
		33:33	1.24	3,657.96	2,027.69	1,630.27	0.946
A		33:44 RO	1.04	106,300.00	54,100.00	52,200.00	0.952 SE
		34:03	1.09	60,983.30	31,802.50	29,180.80	1.000 123478-HxCDF AN SE
		34:11	1.25	32,463.50	18,012.70	14,450.80	1.000 123678-HxCDF AN E
	X	34:18 RO	1.45	1,658.96	982.98	675.98	0.968
		34:28	1.25	3,691.92	2,047.57	1,644.35	0.972
		34:39	1.25	35,341.30	19,661.50	15,679.80	1.000 234678-HxCDF AN E
AN		35:27	1.06	607.00	312.00	295.00	1.000 123789-HxCDF AN
M		35:32	1.21	6,370.00	3,490.00	2,880.00	1.002
	DC WH	35:56	1.30	796.00		1.014	
374-376	11 Peaks		330.311.04				

13C12-HxCDF		0.43-0.59			0.879-1.105		
384-386	DC NL	Height	0.58	0.32	0.26		
		33:07 RO	2.58	114.45	82.48	31.97	0.934
		33:17 RO	2.65	351.11	254.86	96.25	0.939
		33:33 RO	0.23	11.83	2.23	9.60	0.946
		33:45 RO	2.64	529.33	383.71	145.62	0.952
		34:04	0.59	1,029.20	383.35	645.85	1.000 13C12-HxCDF 478 IS5
		Height	301.77	112.44	189.33		
		34:10	0.56	1,024.62	365.87	658.75	1.000 13C12-HxCDF 678 IS6
		Height	320.86	113.05	207.81		
		34:17 RO	0.81	28.47	12.74	15.73	0.967
		34:28 RO	1.14	6.15	3.27	2.88	0.972
		34:39	0.54	1,063.94	372.87	691.07	1.000 13C12-HxCDF 234 IS7
		Height	332.29	116.61	215.68		
		34:53 RO	0.69	10.48	4.28	6.20	0.984
		35:12 RO	0.86	3.46	1.60	1.86	0.993
		35:27	0.51	855.93	287.27	568.66	1.000 13C12-HxCDF 789 IS8
		Height	230.67	77.89	152.78		

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.

384-386 DC SN 35:49 RO 0.35 1.50 1.010
12 Peaks 5,028.97

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

HxCDD		1.05-1.43			0.959-1.013			
DC	NL	Height	16.07	7.81	8.26			
390-392		33:29	1.29	207.03	116.78	90.25	0.961	
		33:38	1.25	37,484.50	20,819.90	16,664.60	0.965	
		34:02	1.25	5,460.51	3,029.37	2,431.14	0.977	
		34:15	1.06	79,595.40	40,968.30	38,627.10	0.983	
		34:25	1.26	1,142.01	636.48	505.53	0.988	
N		34:40	1.27	677.11	378.46	298.65	0.997	
AN		34:46	1.29	1,533.00	864.00	669.00	1.000 123478-HxCDD AN	
M		34:52	1.16	43,400.00	23,300.00	20,100.00	1.000 123678-HxCDD AN SE	
		35:11	1.25	24,661.50	13,698.90	10,962.60	1.010 123789-HxCDD AN E	
390-392	DC WH	35:22	1.11	87.44			1.015	
		9 Peaks		194,161.06				

13C12-HxCDD		1.05-1.43			0.983-1.041			
DC	NL	Height	0.85	0.40	0.45			
402-404		33:45	1.16	70.39			0.971	
		34:06	1.20	15.07			0.981	
		34:16 RO	1.01	82.37	41.41	40.96	0.986	
		34:46	1.20	660.54	359.82	300.72	1.000 13C12-HxCDD 478 IS9	
			Height	208.70	112.60	96.10		
		34:51	1.21	758.50	415.35	343.15	1.000 13C12-HxCDD 678 IS10	
			Height	225.09	124.67	100.42		
		35:10	1.21	870.89	477.14	393.75	1.012 13C12-HxCDD 789 RS2	
402-404		4 Peaks		2,372.30				

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

HpCDF		0.88-1.20			0.955-1.005			
DC	NL	Height	6.17	2.88	3.29			
408-410		37:23	1.01	241,000.00	121,000.00	120,000.00	1.000 1234678-HpCDF AN SE	
A		37:42	1.01	182,800.00	91,700.00	91,100.00	0.972 SE	
D	D NH	38:17	0.99	476.31			0.988	
		38:47	1.05	20,929.70	10,700.60	10,229.10	1.000 1234789-HpCDF AN E	
408-410		3 Peaks		444,729.70				

13C12-HpCDF		0.37-0.51			0.857-1.141			
DC	NL	Height	0.39	0.20	0.19			
418-420		37:23 RO	1.85	2,277.24	1,478.20	799.04	1.000 13C12-HpCDF 678 IS11 SQ	
			Height	197.94	131.88	66.06		
		37:48 RO	2.64	1,179.83	855.76	324.07	0.975	
		38:17 RO	1.00	6.11	3.06	3.05	0.988	
		38:46	0.46	652.78	206.29	446.49	1.000 13C12-HpCDF 789 IS12	
			Height	164.61	51.81	112.80		
418-420	DC SN	39:05 RO	1.04	1.73			1.008	
		4 Peaks		4,115.96				

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.

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

HpCDD		0.88-1.20			0.976-1.005		
424-426	DC NL	Height	2.64	1.15	1.49		
D	D NH	37:23 RO	1.50	428.11		0.977	
		37:36	1.03	41,354.90	20,993.90	20,361.00	0.983
		38:17	1.00	56,163.80	28,125.10	28,038.70	1.000
424-426		2 Peaks		97,518.70			
							1234678-HpCDD AN SE

13C12-HpCDD		0.88-1.20			0.868-1.078		
436-438	DC NL	Height	0.59	0.24	0.35		
		37:23	1.15	158.07	84.54	73.53	0.977
		37:48	1.20	127.55	69.59	57.96	0.988
		38:16	1.05	667.14	341.32	325.82	1.000
		Height	170.42	86.73	83.69		
436-438		3 Peaks		952.76			
							13C12-HpCDD 678 IS13

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

OCDF		0.76-1.02			0.952-1.048		
442-444	DC NL	Height	0.19	0.10	0.09		
	DC WL	36:49	0.87	57.15		0.873	
	DC WL	39:50	1.02	261.76		0.945	
		42:24	0.97	162,835.80	79,975.90	82,859.90	1.006
	DC WH	44:16	0.99	274.61		1.050	
442-444		1 Peak		162,835.80			
							OCDF AN SE

OCDD		0.76-1.02			0.952-1.048		
458-460	DC NL	Height	0.32	0.17	0.15		
		42:10	0.86	104,077.40	48,240.90	55,836.50	1.000
458-460		1 Peak		104,077.40			
							OCDD AN SE

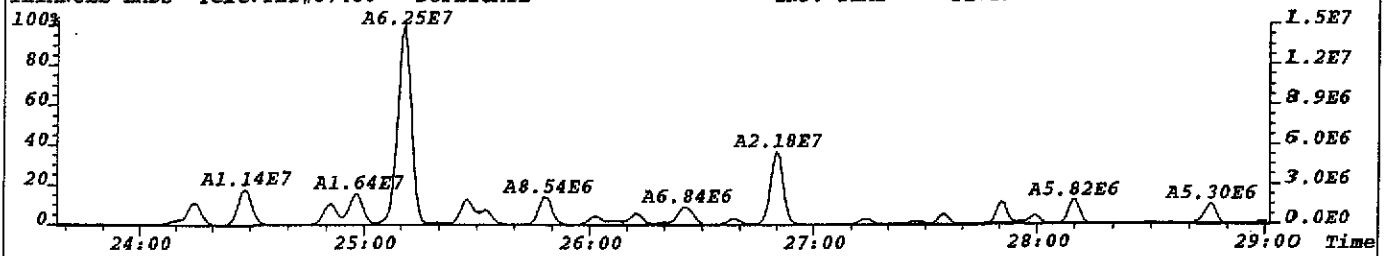
13C12-OCDD		0.76-1.02			0.996-1.004		
470-472	DC NL	Height	0.52	0.11	0.41		
		42:10	1.00	1,124.49	563.17	561.32	1.000
		Height	132.67	67.18	65.49		
	DC WH	42:25 RO	1.39	116.41		1.006	
470-472		1 Peak		1,124.49			
							13C12-OCDD IS14

Column Description..... "Why" Code Description..... QC Log Desc.....

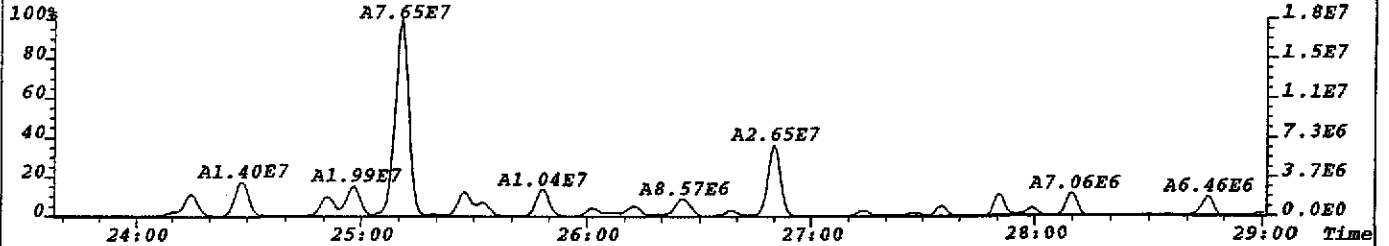
M_Z -Nominal Ion Mass(es) WL-Below Retention Time Window A-Peak Added
 ..RT. -Retention Time (mm:ss) WH-Above Retention Time Window K-Peak Kept
 Rat.1 -Ratio of M/M+2 Ions SN-Below Signal to Noise Level D-Peak Deleted
 OK -RO=Ratio Outside Limits <M-Below Method Detection Limit T-Time Changed
 Rel.RT-Relative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

*** End of Report ***

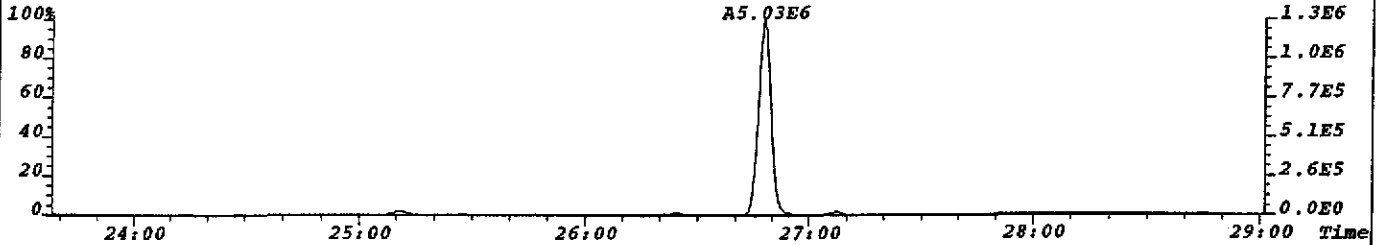
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:113
303.9016 F:2 BSub(256,30,-3.0) PKD(9,5,5,0.05%,452.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



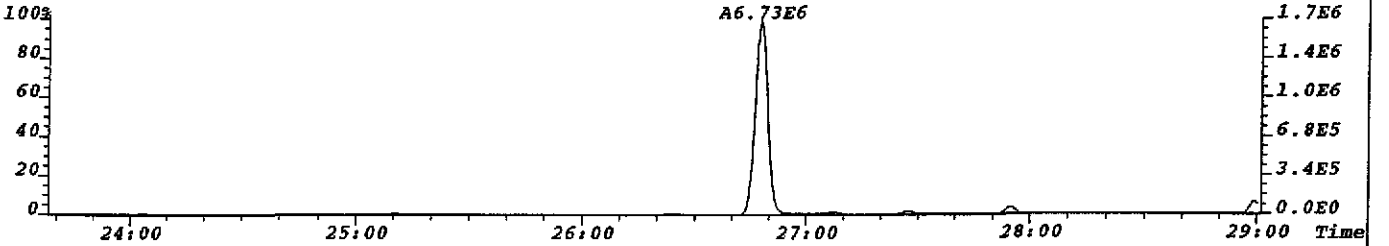
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:112
305.8987 F:2 BSub(256,30,-3.0) PKD(9,5,5,0.05%,448.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



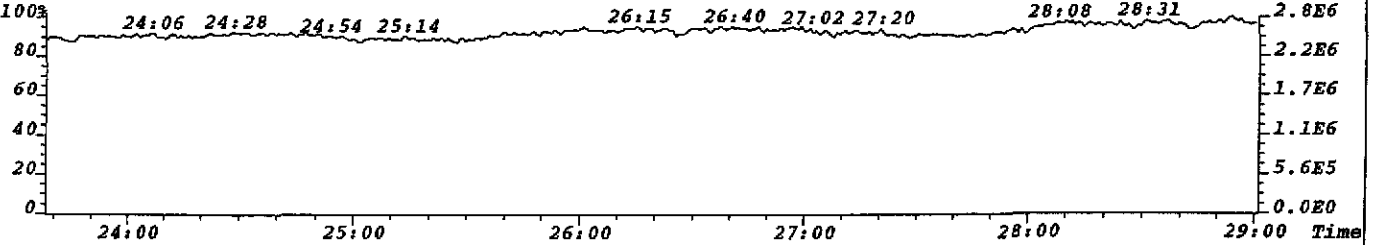
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:98
315.9419 F:2 BSub(256,30,-3.0) PKD(9,5,5,0.05%,392.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



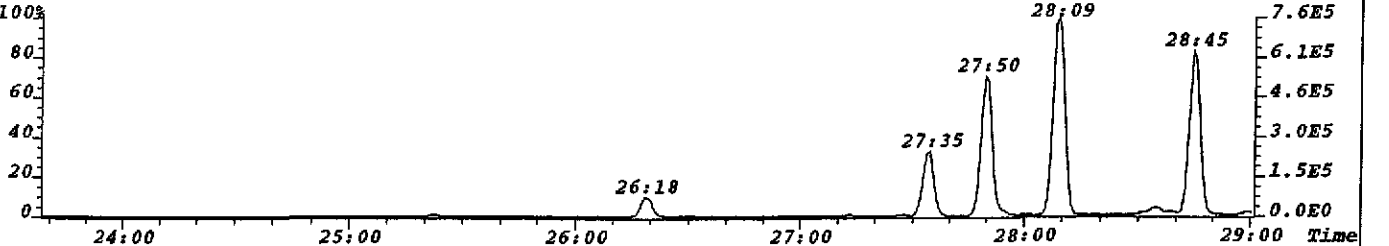
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317.9389 F:2 BSub(256,30,-3.0) PKD(9,5,5,0.05%,472.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



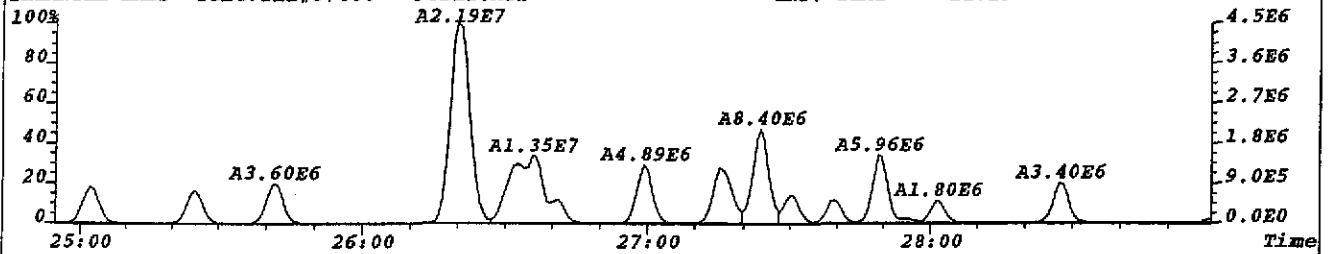
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



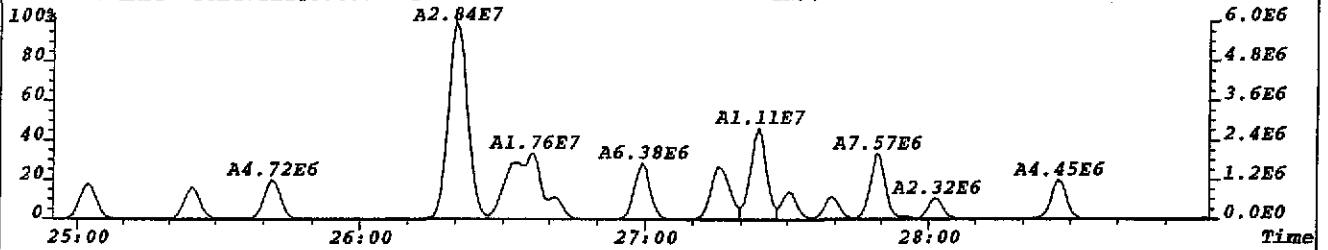
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



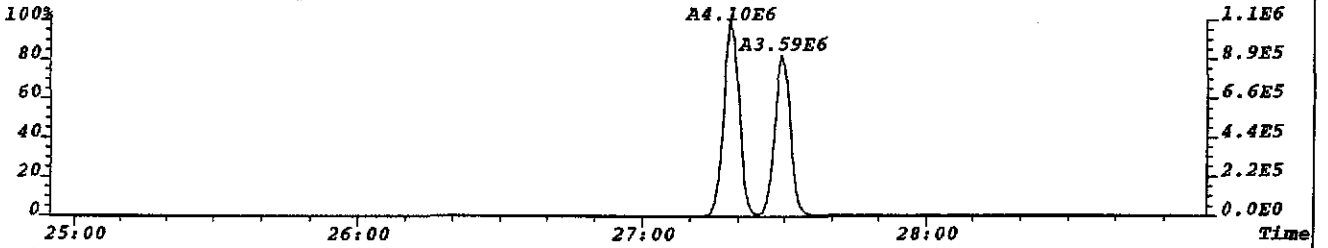
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:80
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,320.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



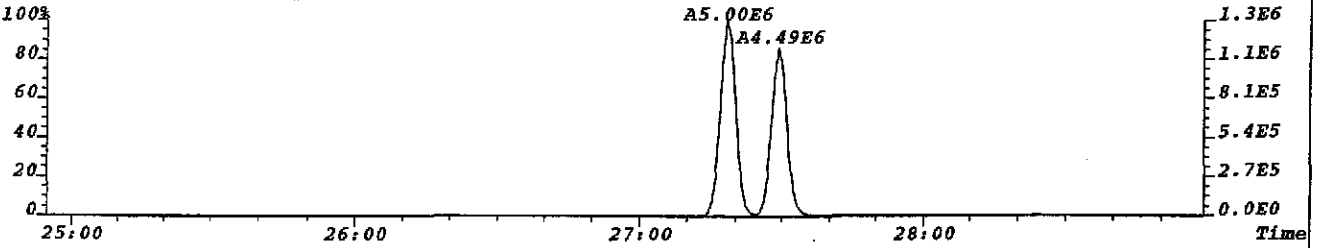
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321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,312.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



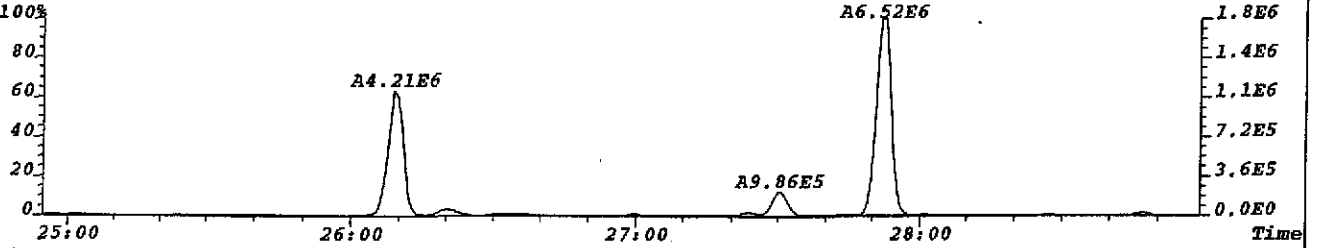
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:188
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,312.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



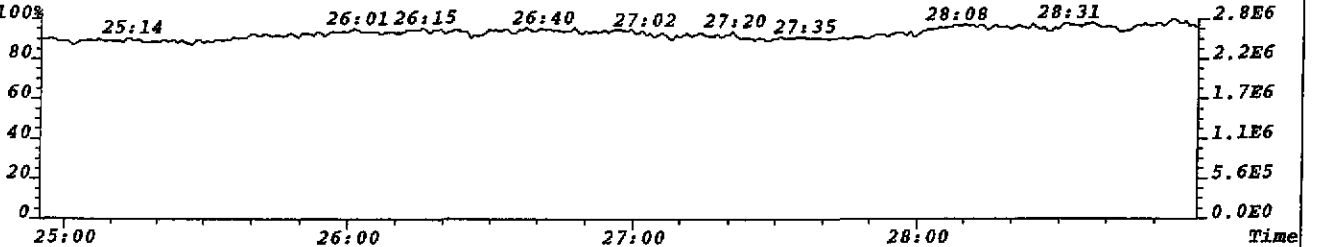
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:98
333.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,392.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



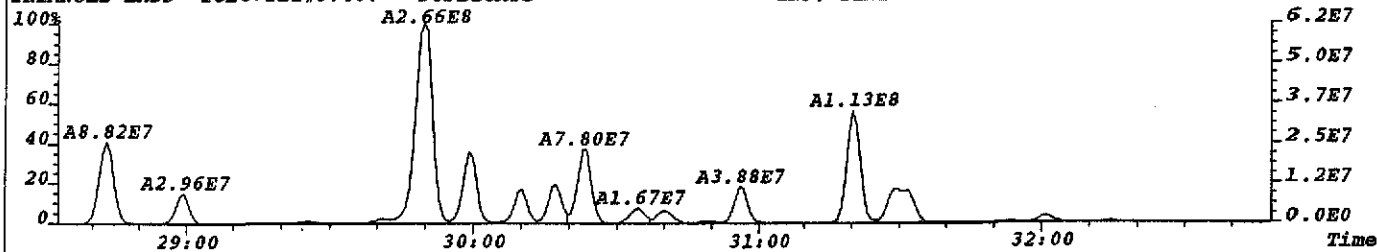
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:102
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,408.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



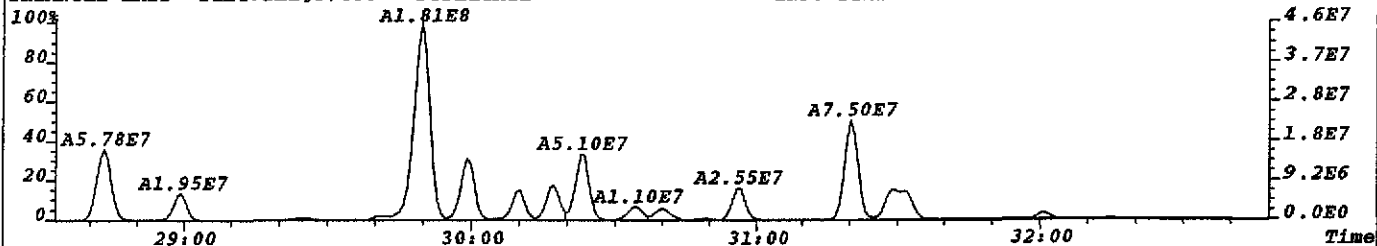
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



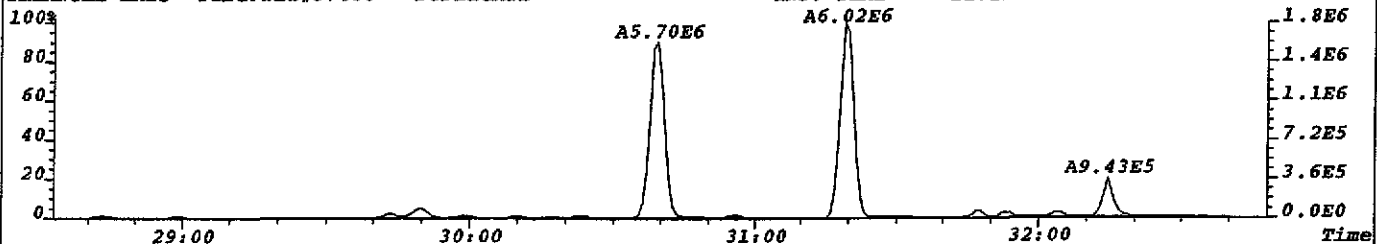
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:69
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



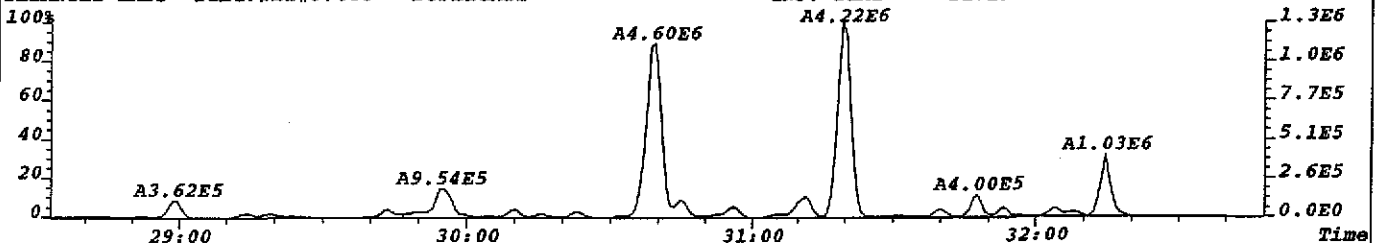
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341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,360.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



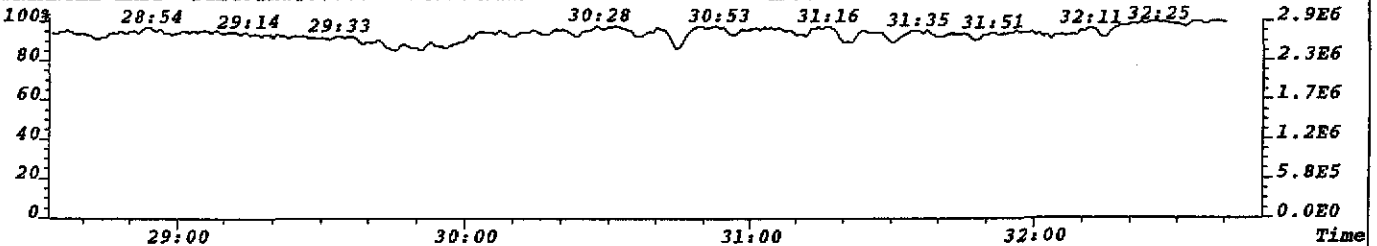
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:61
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,244.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



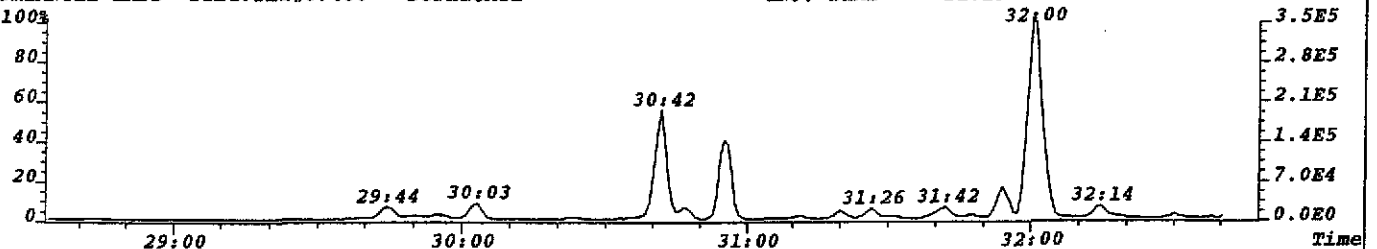
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:79
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



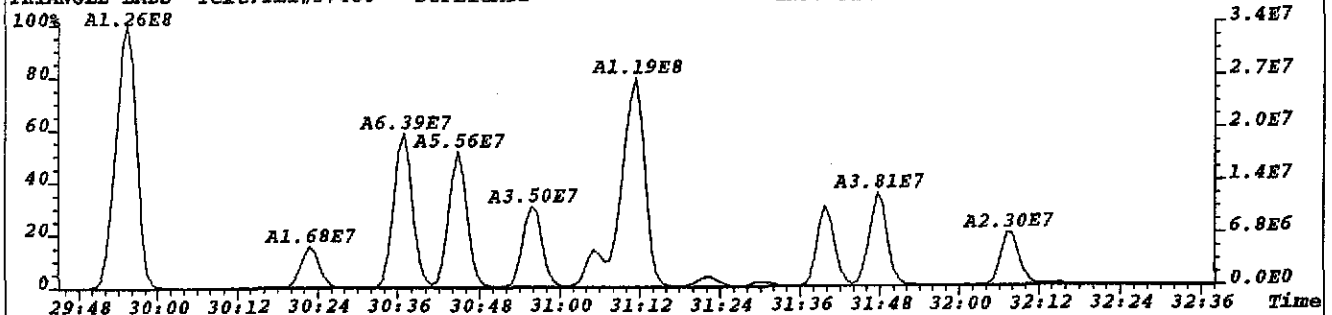
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



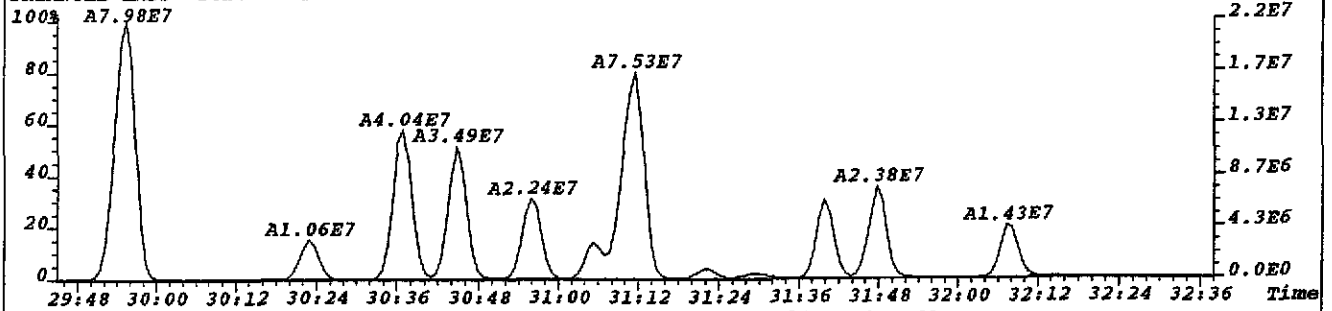
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



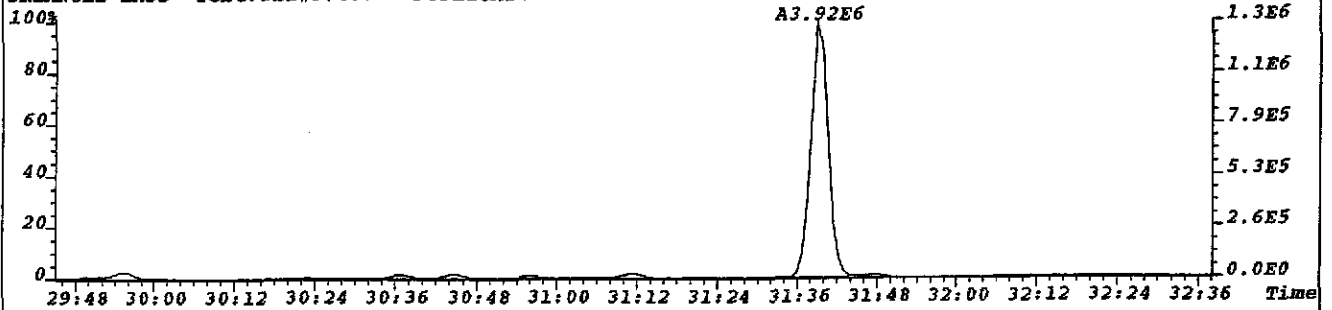
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:82
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



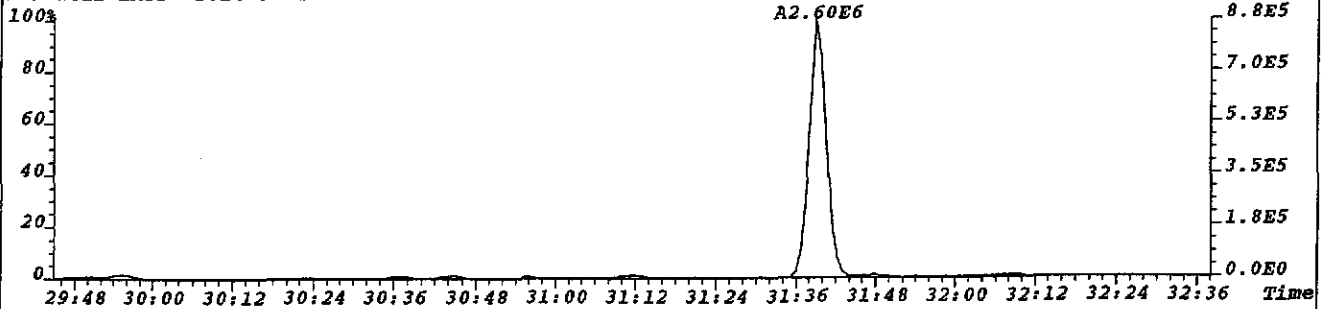
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:73
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,292.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



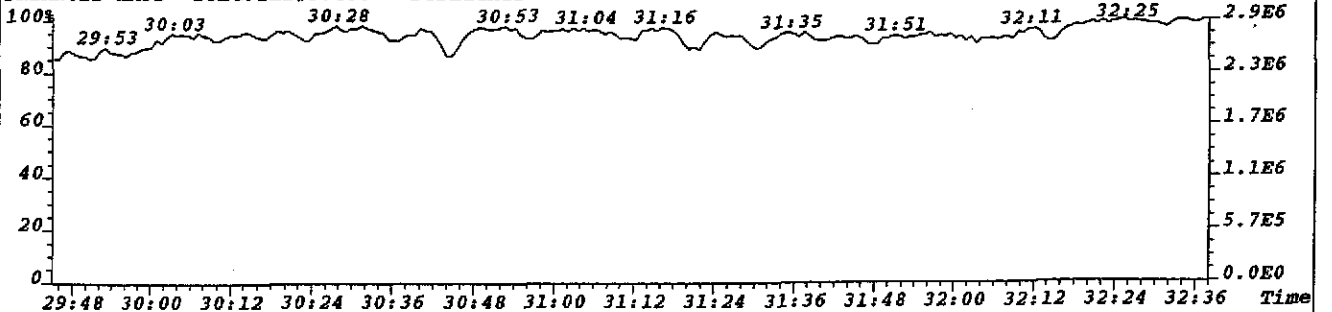
File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:69
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



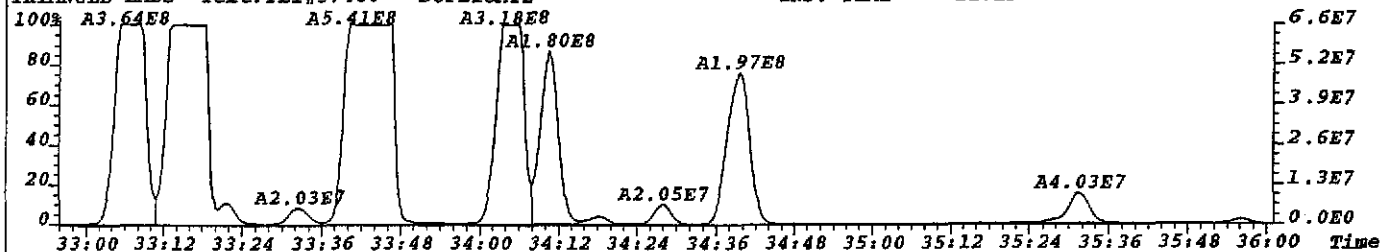
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369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



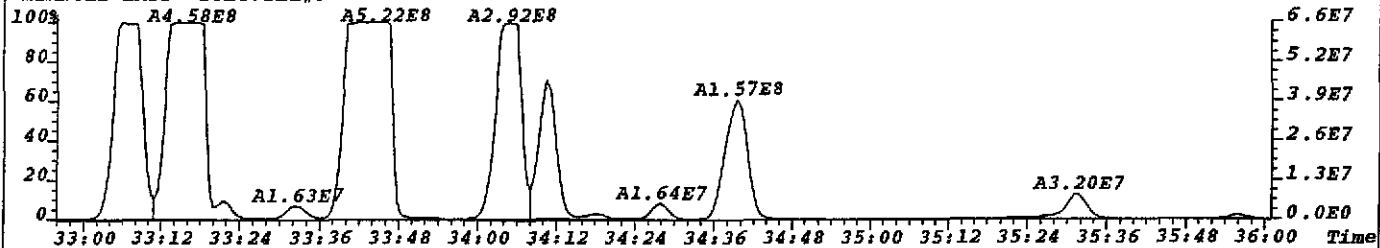
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330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



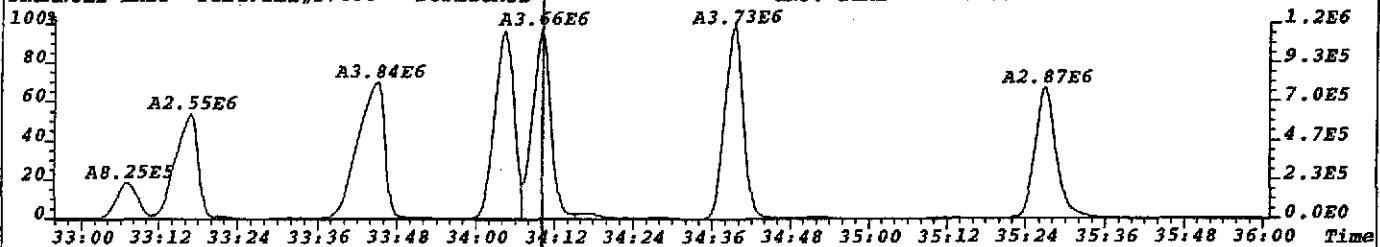
File:T023575 #1-386 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:3554
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,14216.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



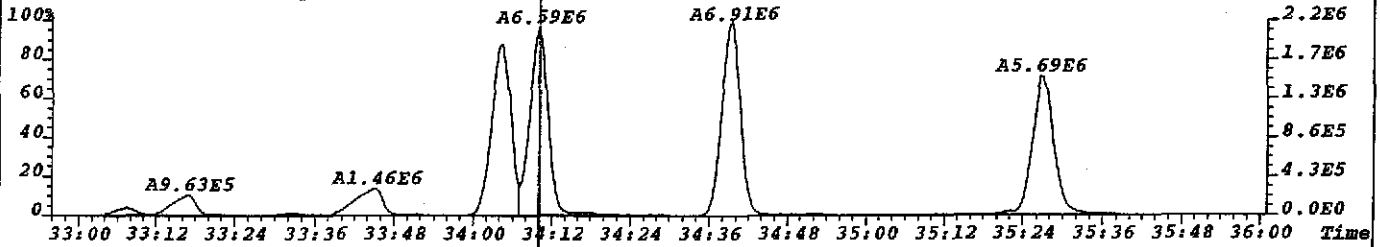
File:T023575 #1-386 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:32247
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,128988.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



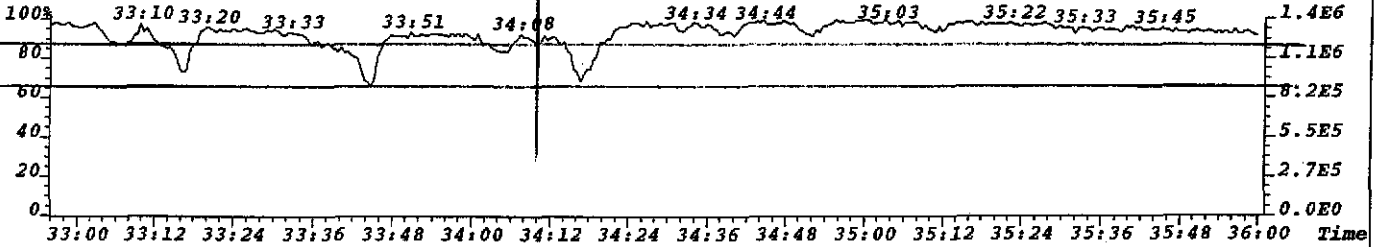
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383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1580.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



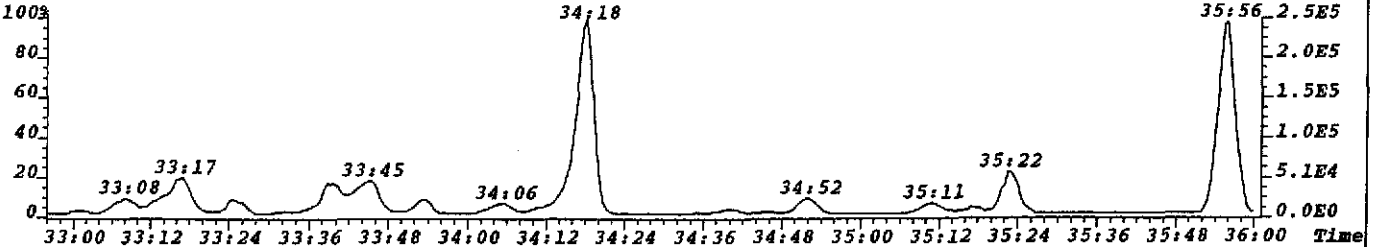
File:T023575 #1-386 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:319
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



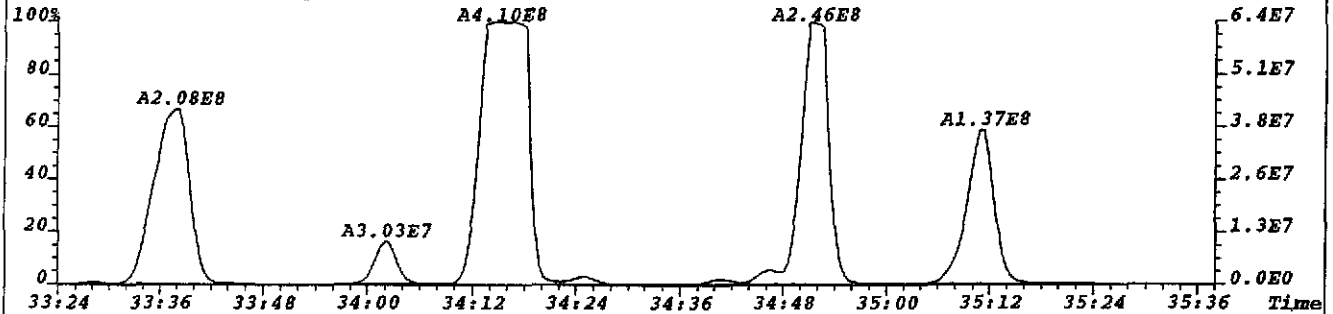
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392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



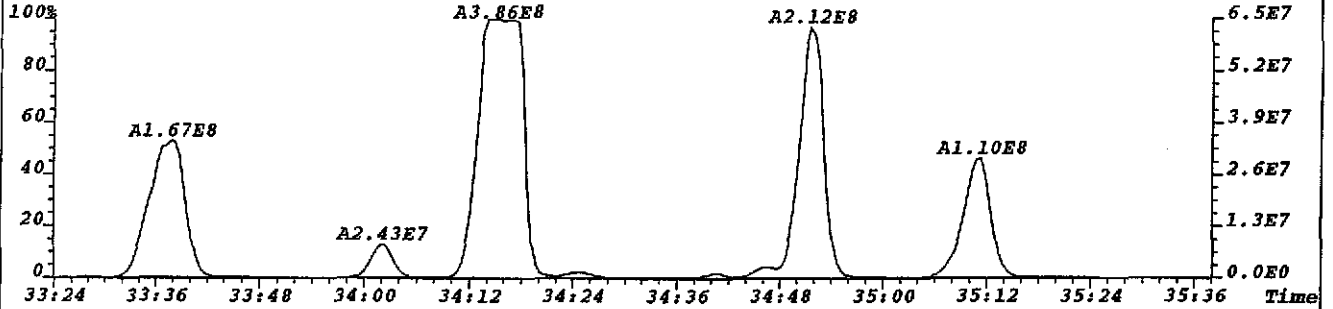
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445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



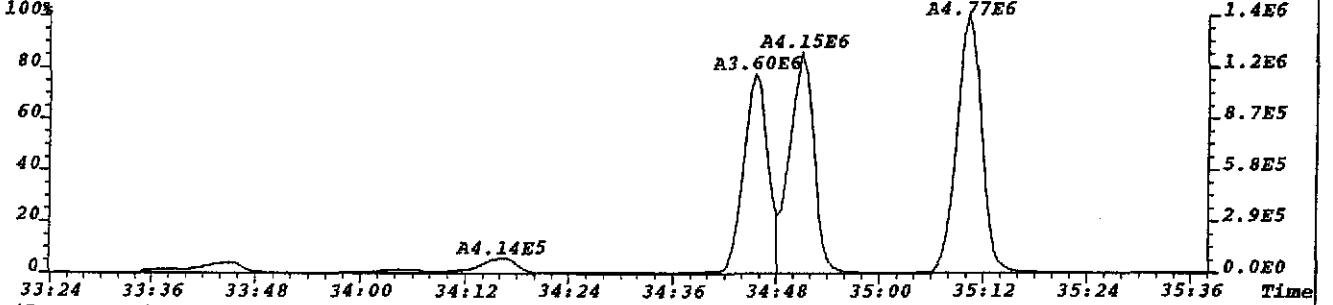
File:T023575 #1-386 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:9766
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,39064.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



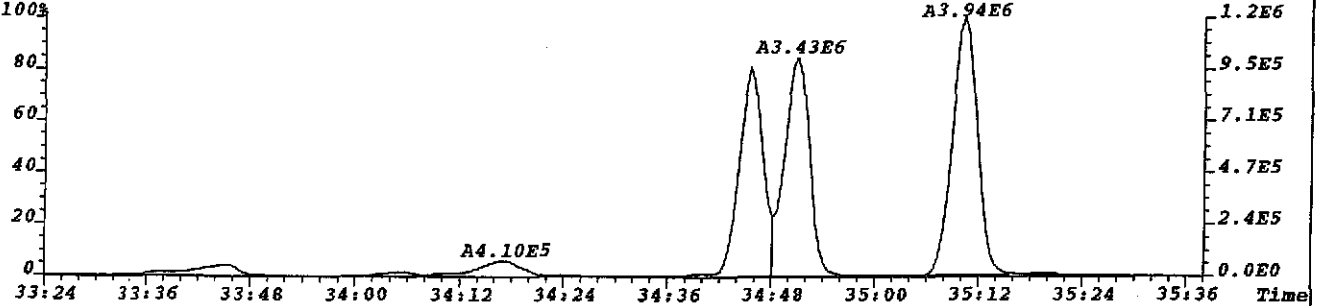
File:T023575 #1-386 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:10328
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,41312.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



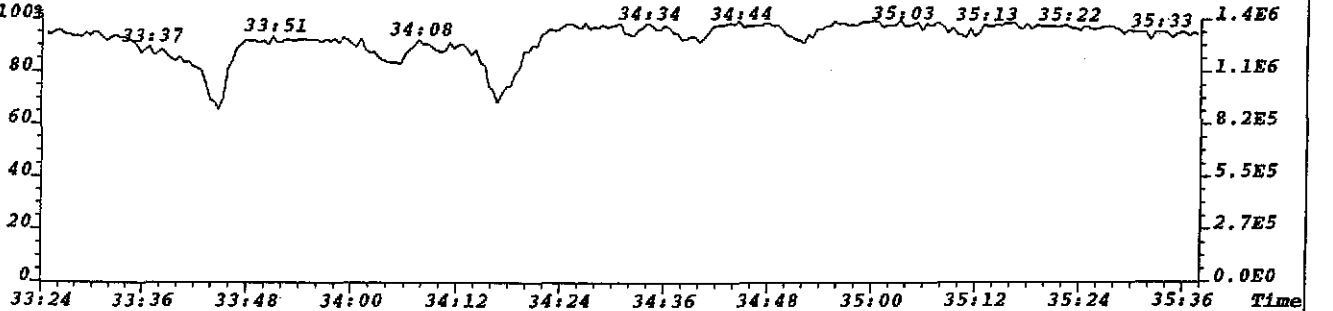
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401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2008.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



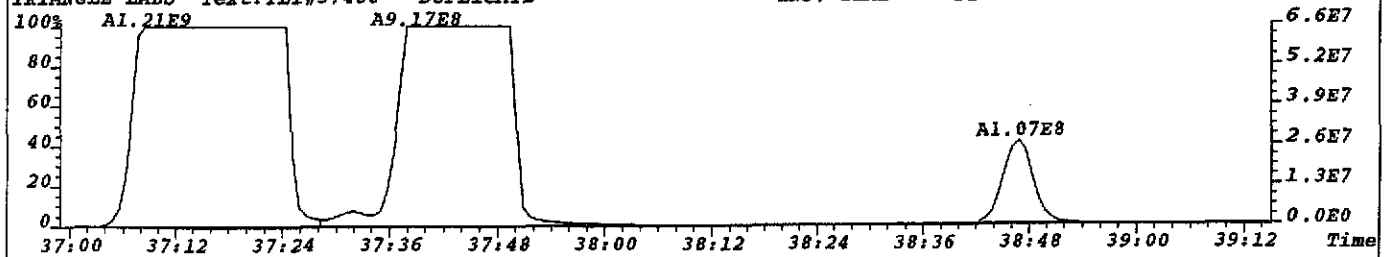
File:T023575 #1-386 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:567
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



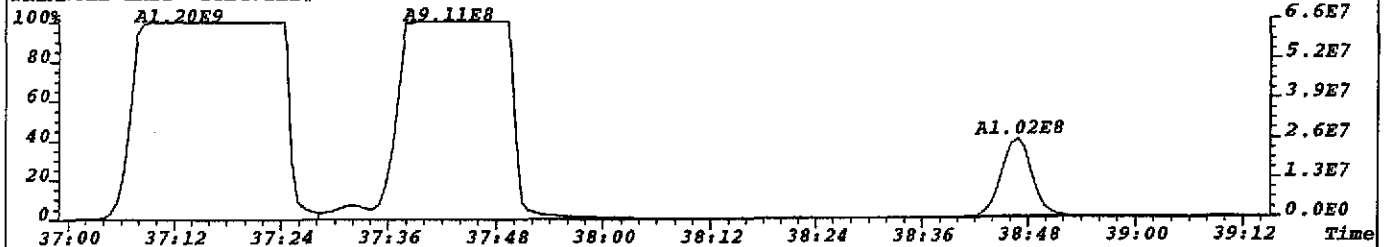
File:T023575 #1-386 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



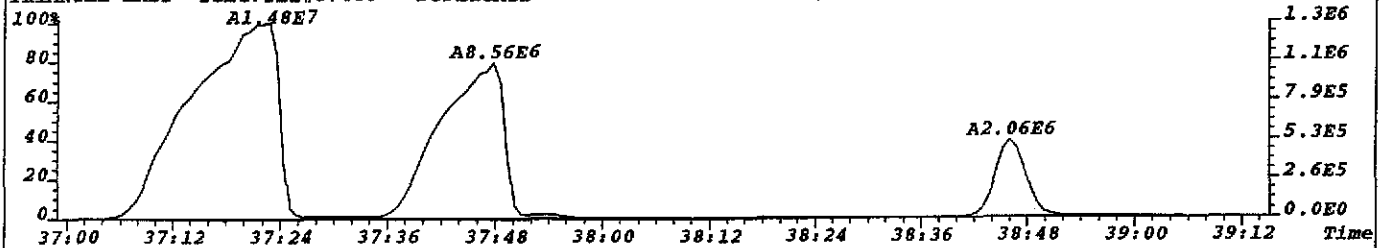
File:T023575 #1-708 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:3606
407.7818 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,14424.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



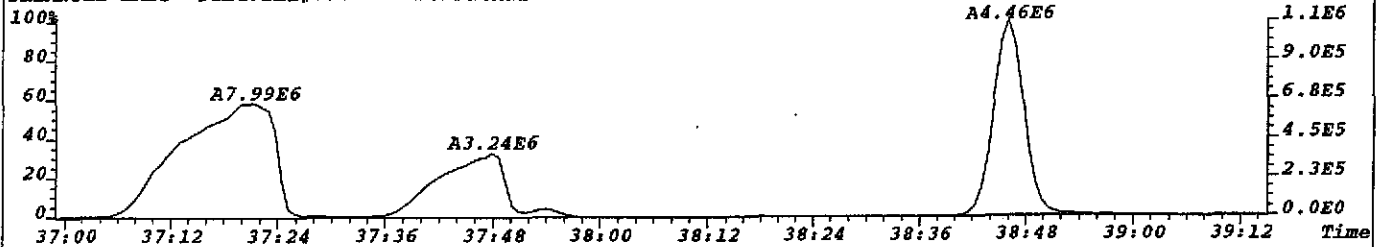
File:T023575 #1-708 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:4113
409.7789 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,16452.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



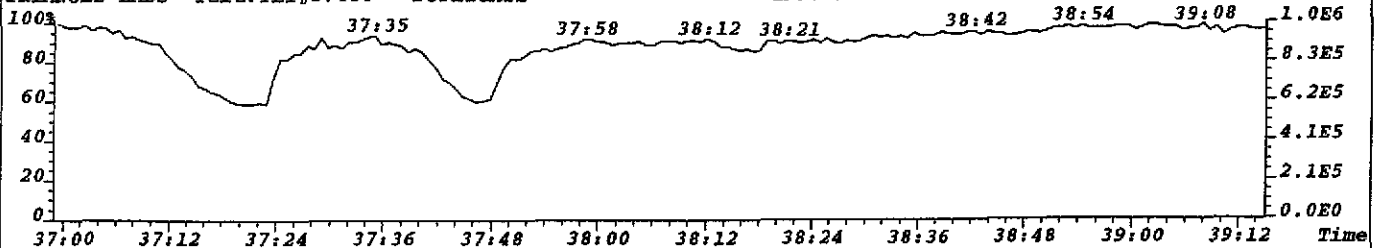
File:T023575 #1-708 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:246
417.8253 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,984.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



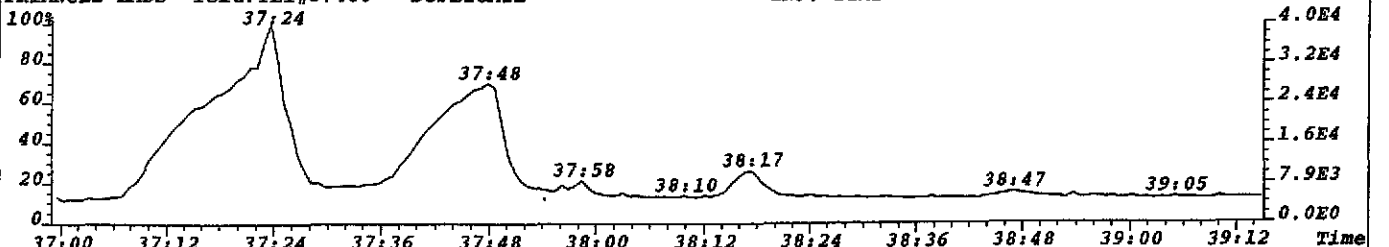
File:T023575 #1-708 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:232
419.8220 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,928.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19

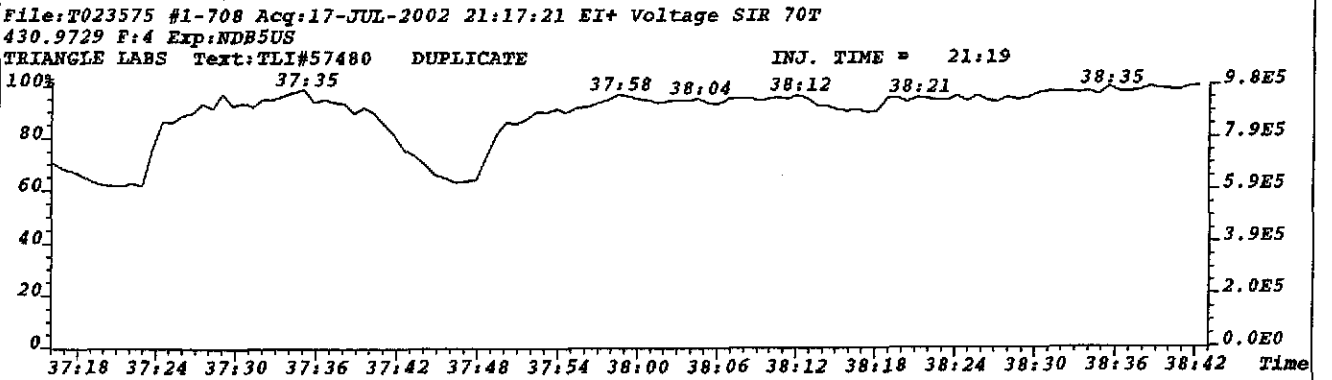
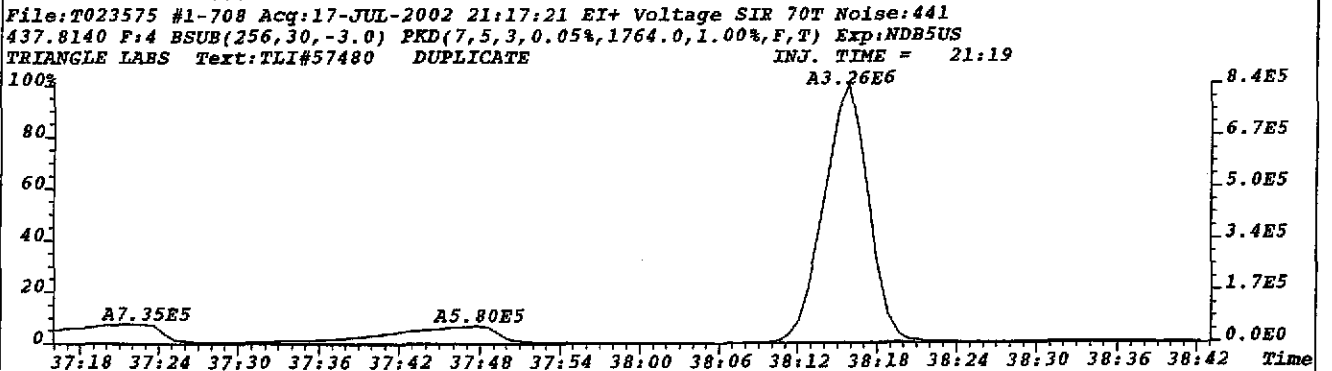
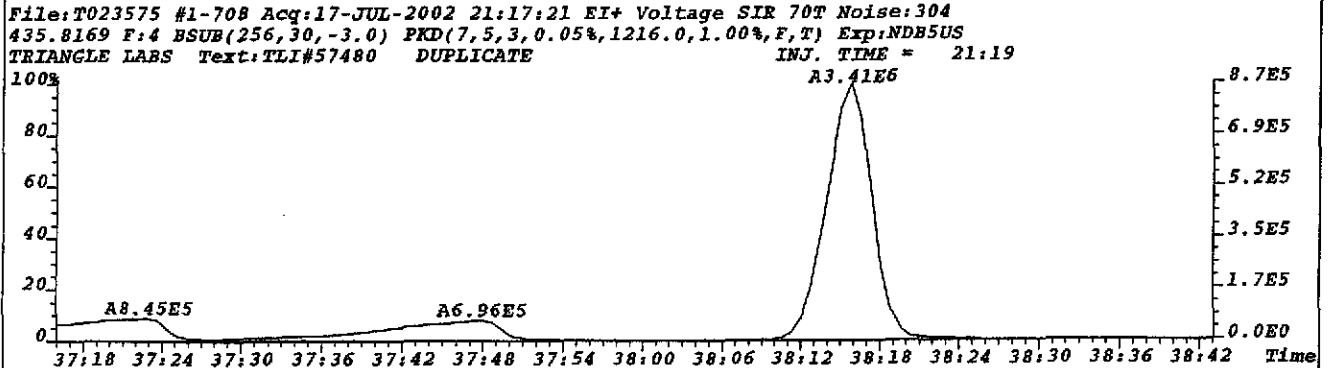
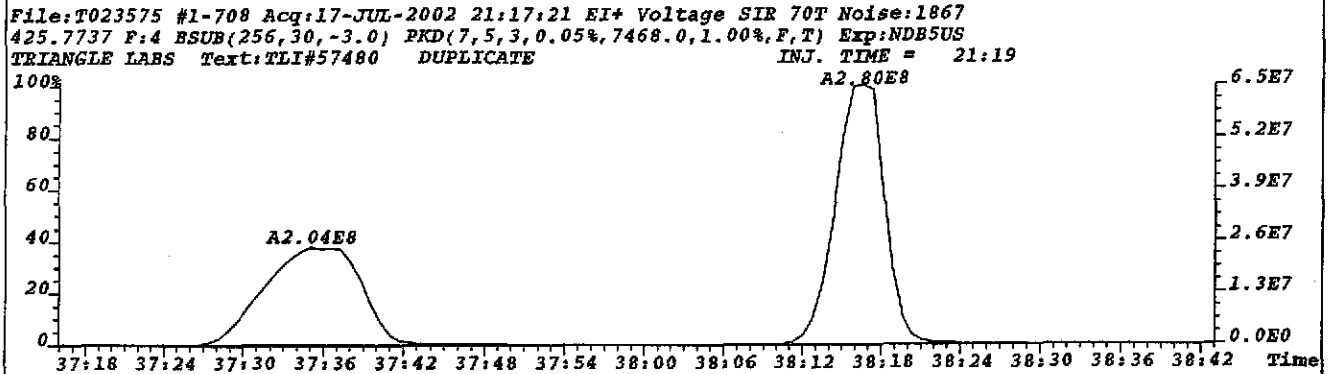
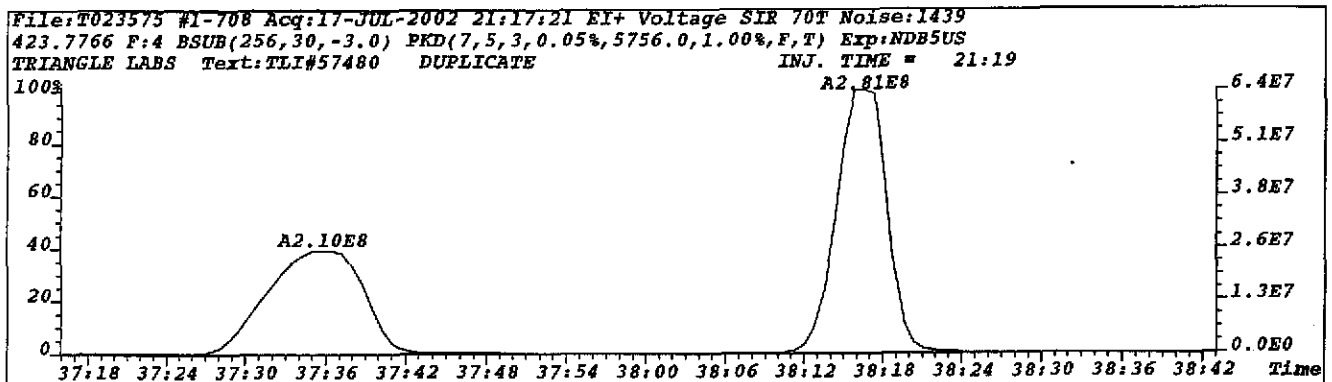


File:T023575 #1-708 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19

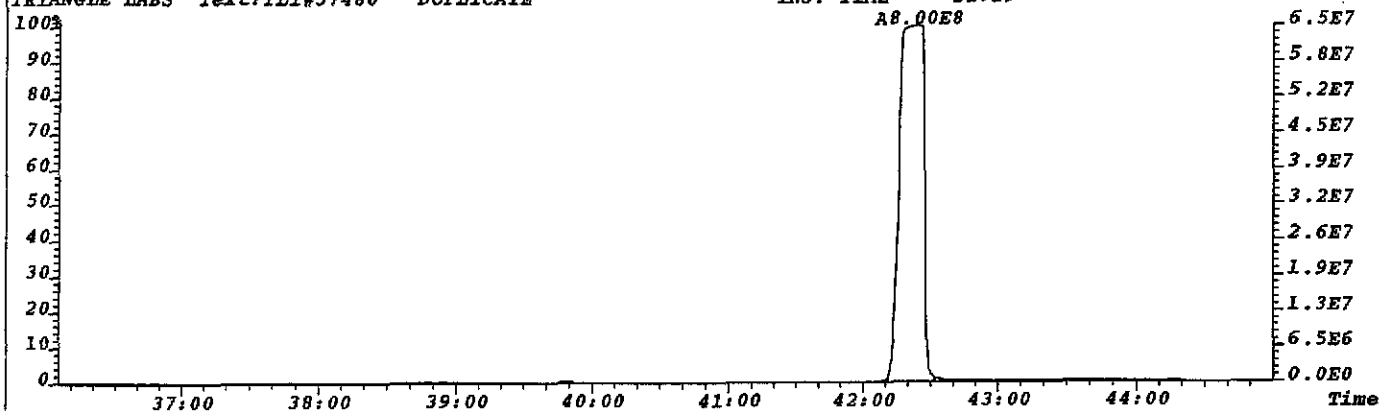


File:T023575 #1-708 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19

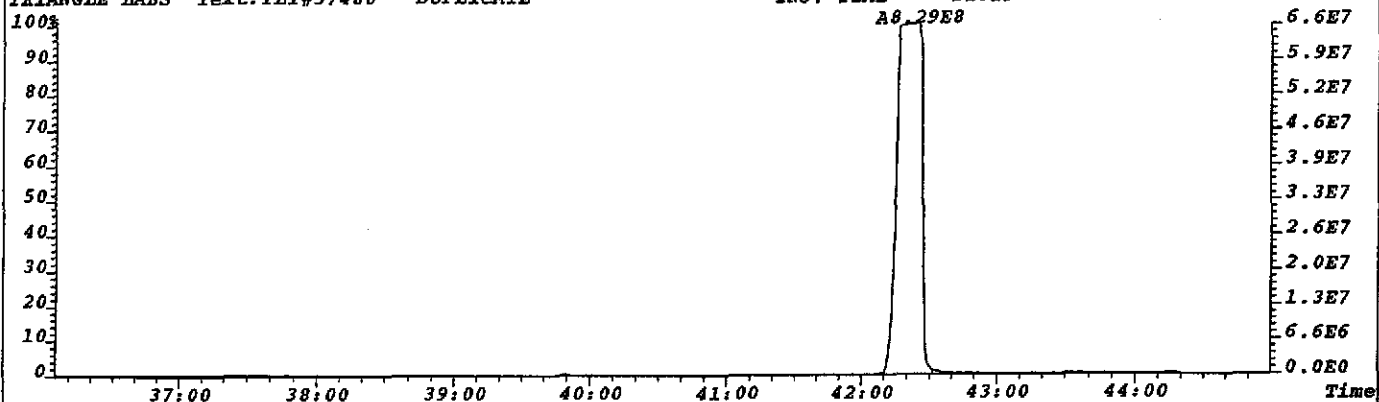




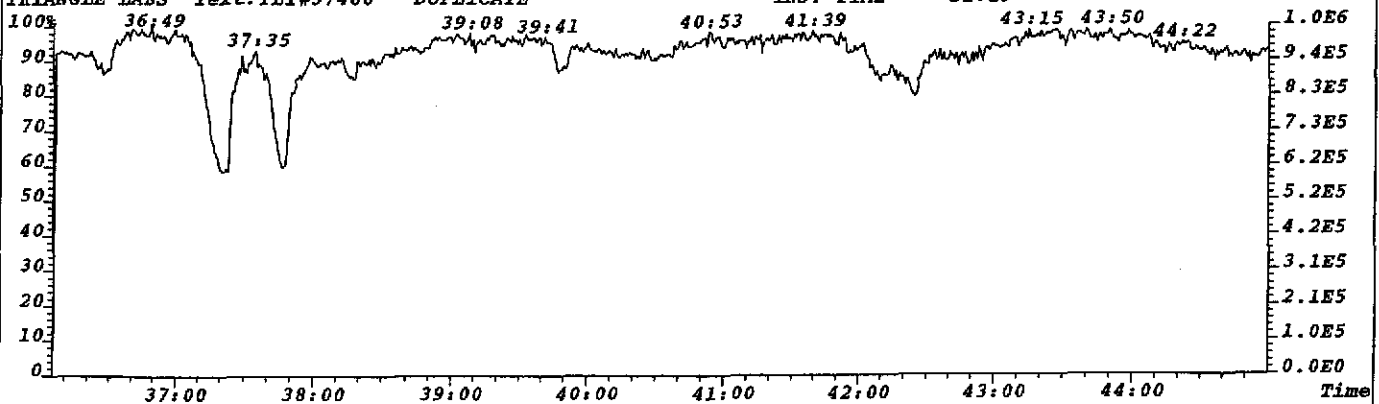
File:T023575 #1-708 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:119
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,476.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



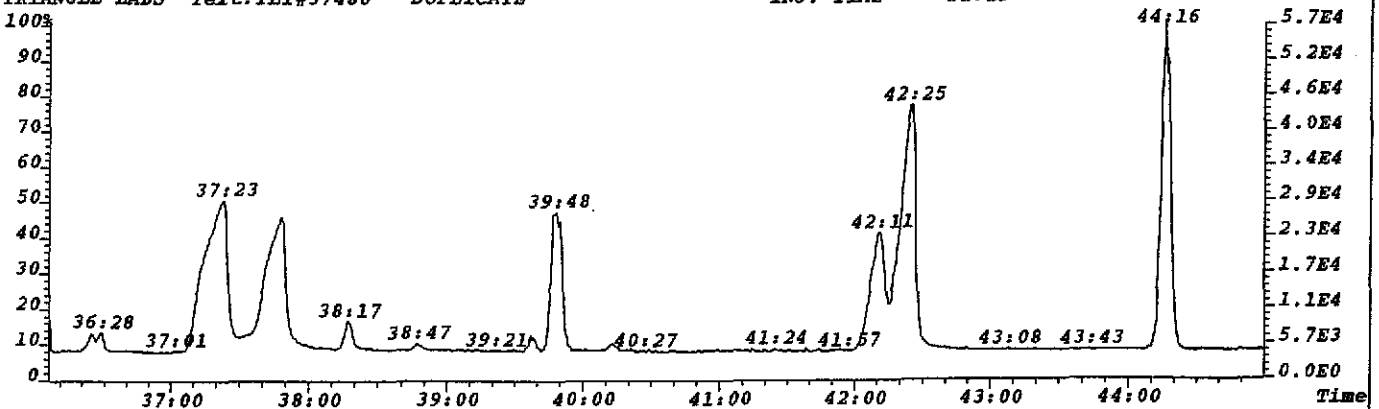
File:T023575 #1-708 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:110
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,440.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



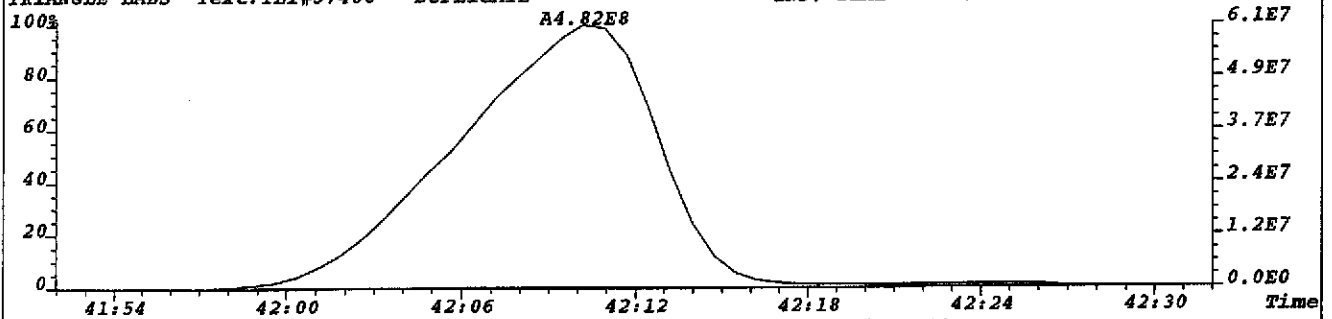
File:T023575 #1-708 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



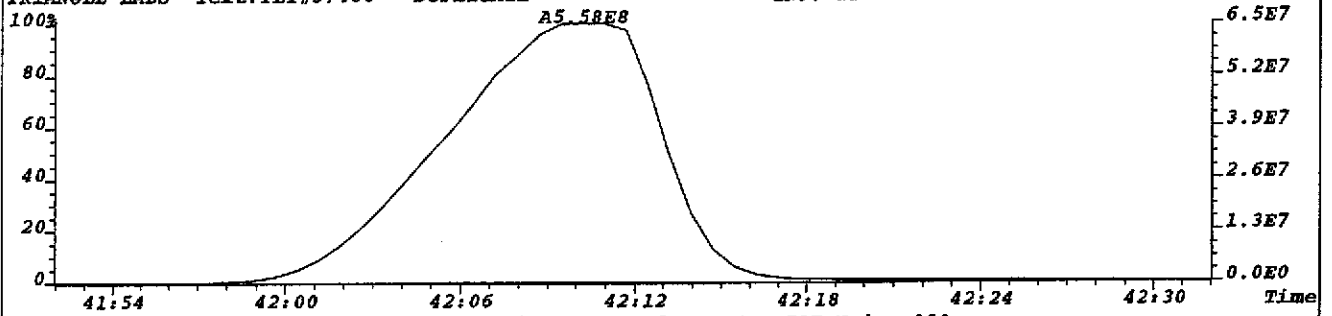
File:T023575 #1-708 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



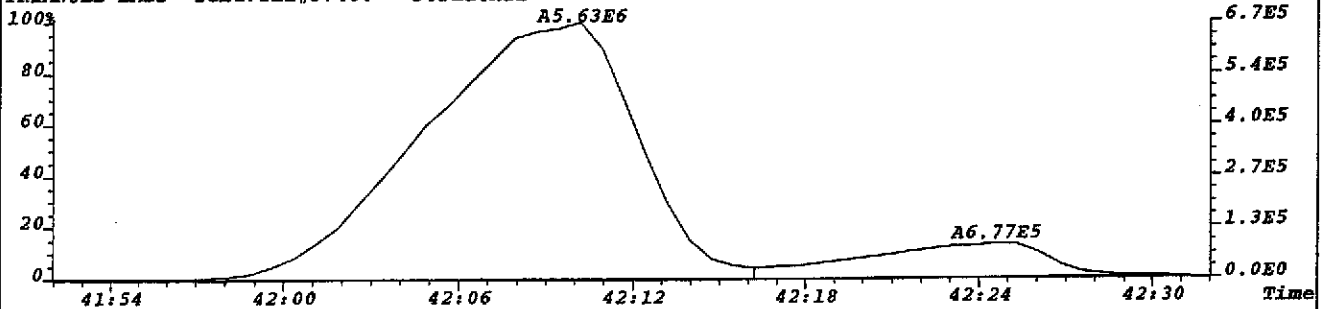
File:T023575 #1-708 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:209
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,836.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



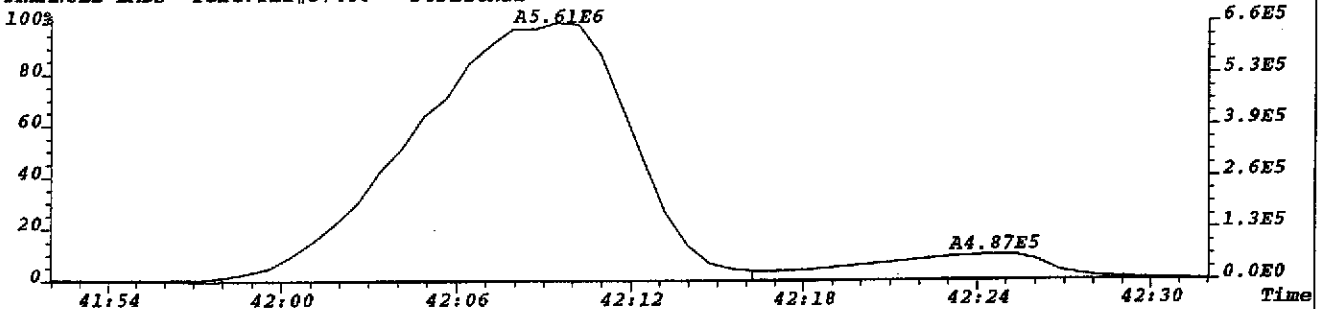
File:T023575 #1-708 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:189
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,756.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



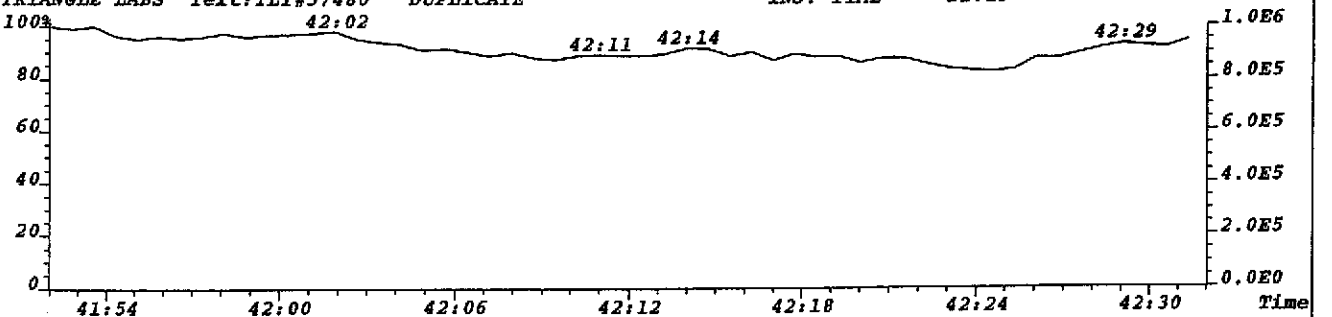
File:T023575 #1-708 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:138
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,552.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



File:T023575 #1-708 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T Noise:516
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2064.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



File:T023575 #1-708 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57480 DUPLICATE INJ. TIME = 21:19



Channel I 330.9792 Peak top
Height .66 volts Span 200 ppm

System file name N069US
Data file name R:717824
Resolution 10000
Group number 2
Ionization mode EI+
Switching VOLTAGE

n 233 J 331 S 358

U 316 M 340 Y 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 .11 volts Span 200 ppm

File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T

331.9368 F:2 Exp:NDB5US

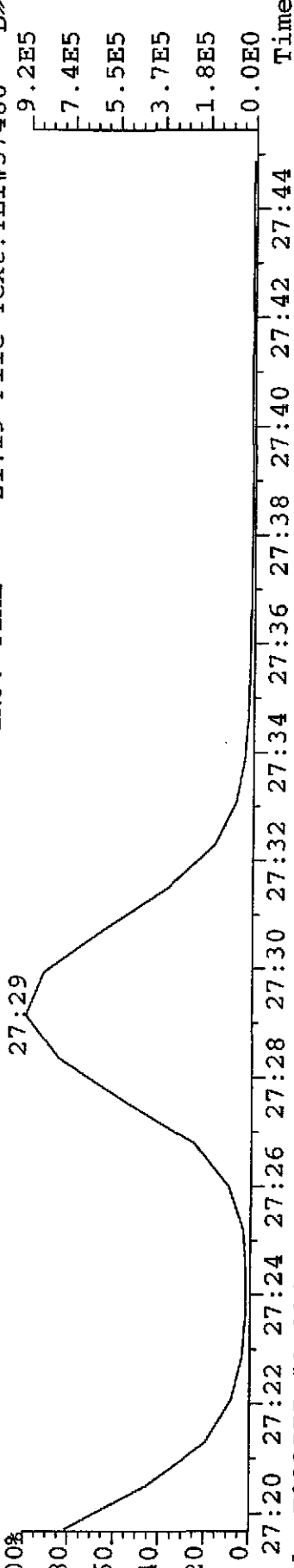
Sample Text:TLI#57480

DUPLICATE

INJ. TIME =

21:19 File Text:TLI#57480

D>>



File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T

333.9338 F:2 Exp:NDB5US

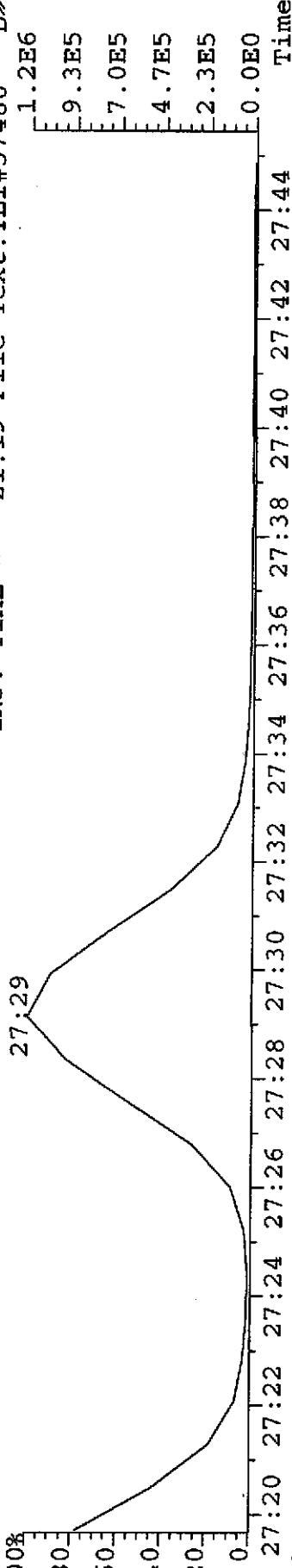
Sample Text:TLI#57480

DUPLICATE

INJ. TIME =

21:19 File Text:TLI#57480

D>>



File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T

327.8847 F:2 Exp:NDB5US

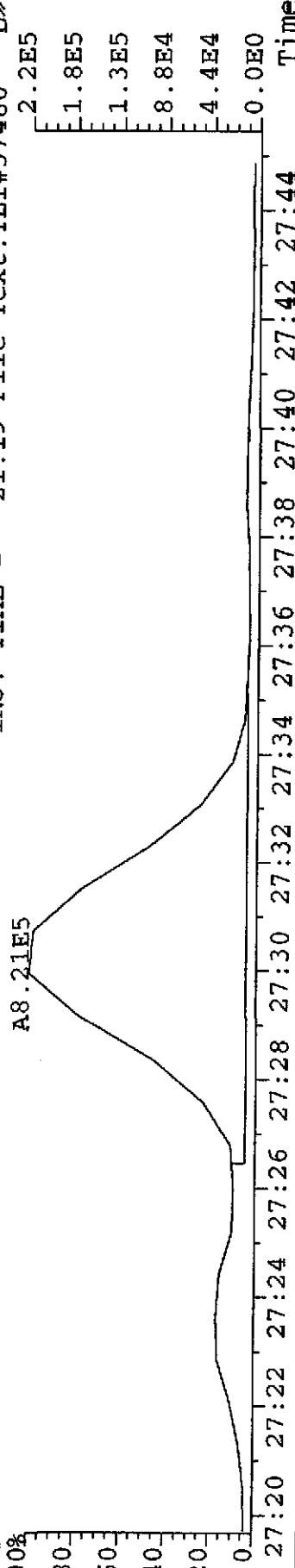
Sample Text:TLI#57480

DUPLICATE

INJ. TIME =

21:19 File Text:TLI#57480

D>>



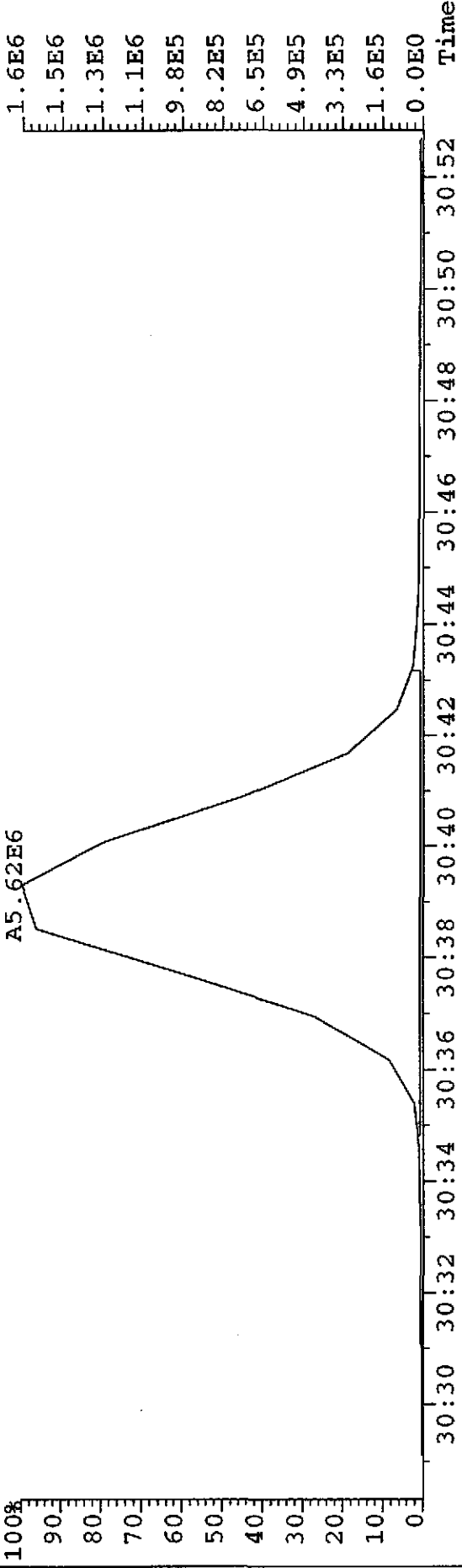
Handwritten signature or initials.

File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T

351.9000 F:2 Exp:NDB5US

Sample Text:TLI#57480 DUPLICATE

INJ. TIME = 21:19 File Text:TLI#57480 D>>

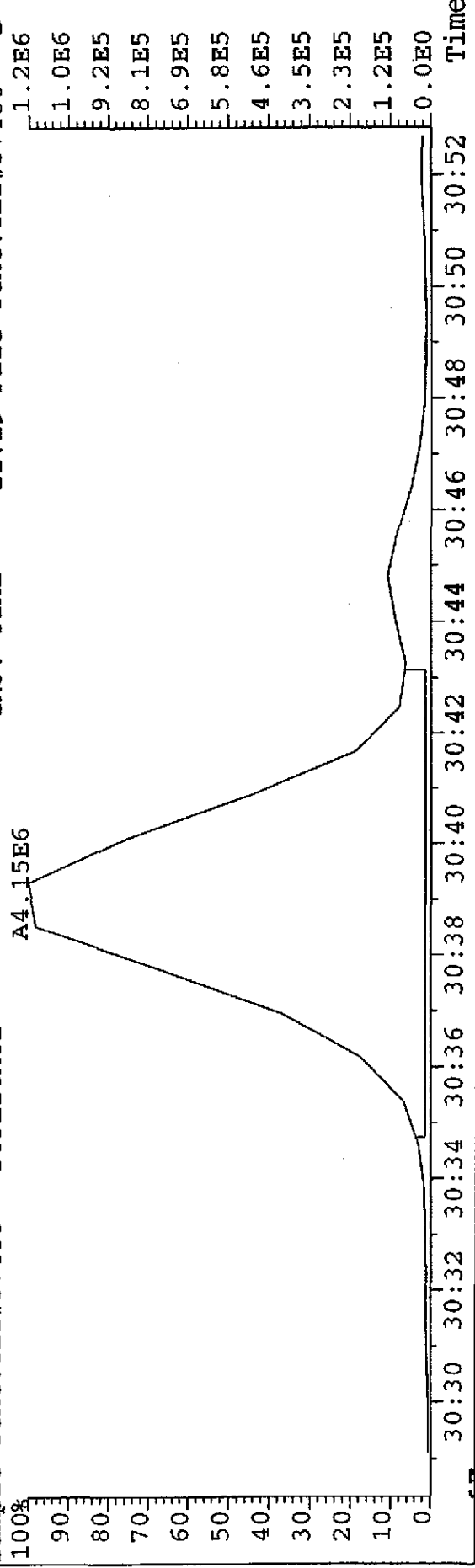


File:T023575 #1-924 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T

353.8970 F:2 Exp:NDB5US

Sample Text:TLI#57480 DUPLICATE

INJ. TIME = 21:19 File Text:TLI#57480 D>>



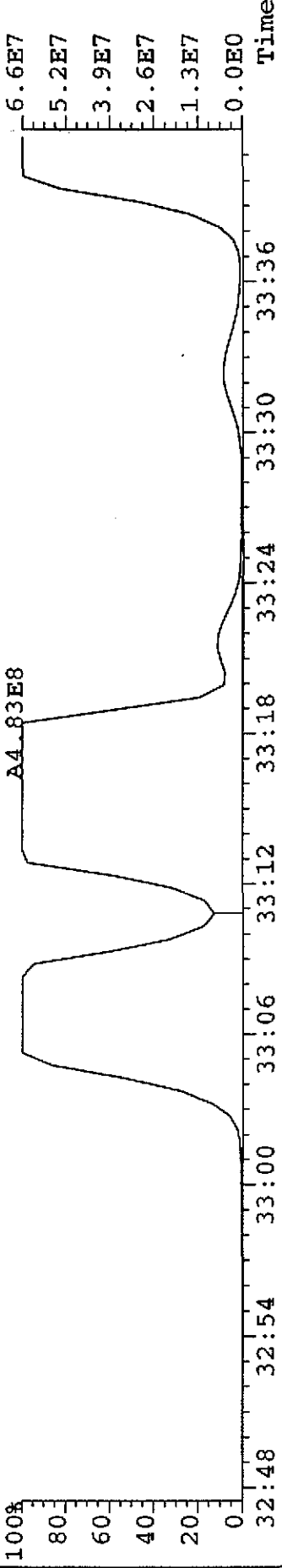
Handwritten signature

File:T023575 #1-386 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T

373.8208 F:3 Exp:NDB5US

Sample Text:TLI#57480 DUPLICATE

INJ. TIME = 21:19 File Text:TLI#57480 D»

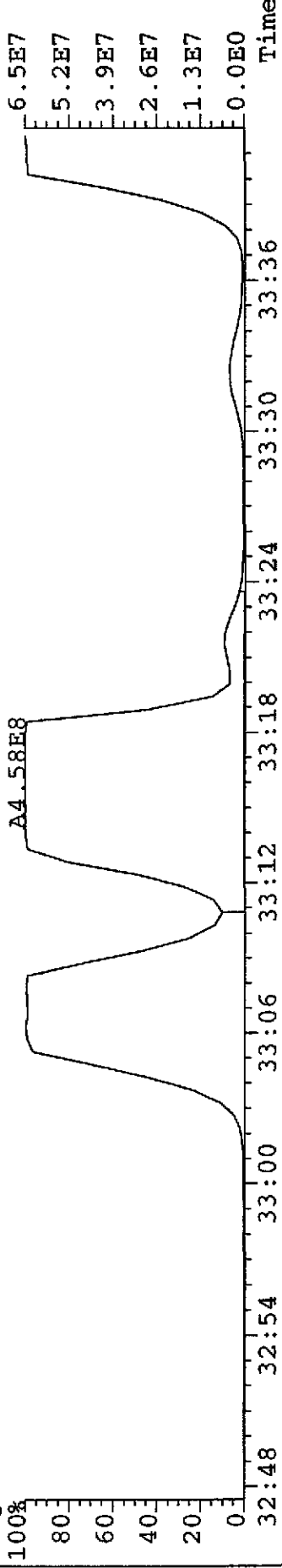


File:T023575 #1-386 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T

375.8178 F:3 Exp:NDB5US

Sample Text:TLI#57480 DUPLICATE

INJ. TIME = 21:19 File Text:TLI#57480 D»

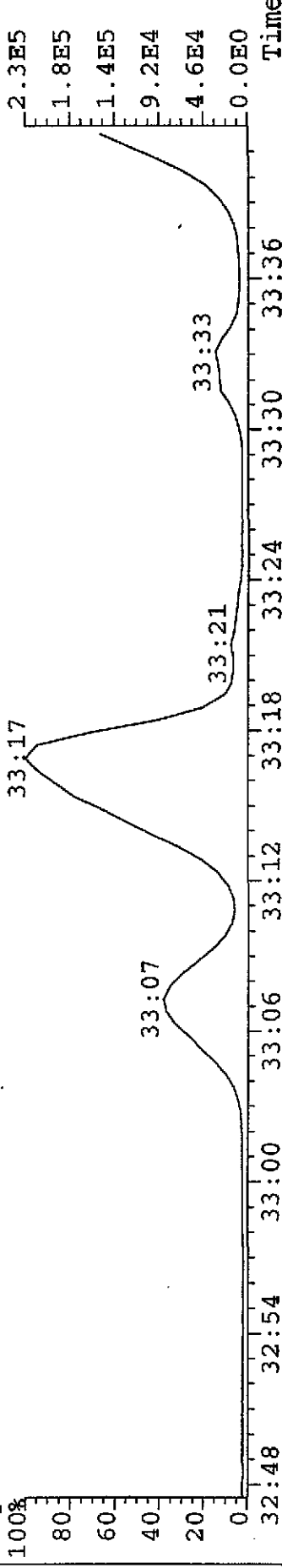


File:T023575 #1-386 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T

385.8610 F:3 Exp:NDB5US

Sample Text:TLI#57480 DUPLICATE

INJ. TIME = 21:19 File Text:TLI#57480 D»



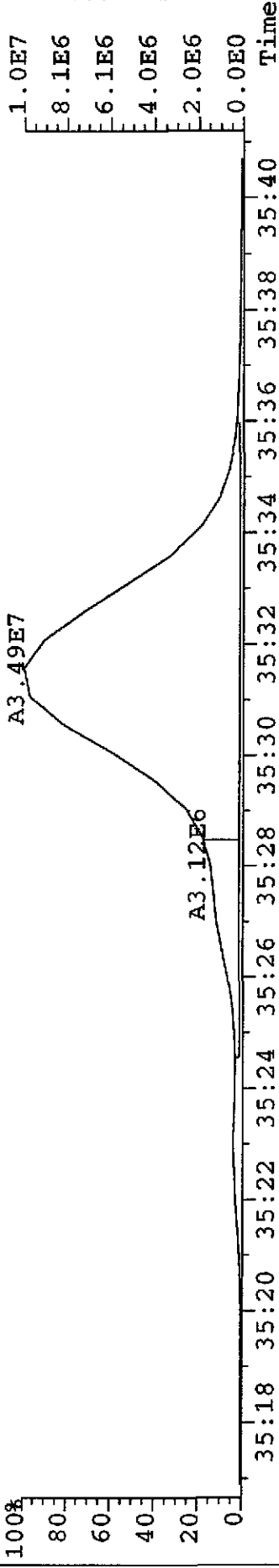
Handwritten signature

File:T023575 #1-386 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T

373.8208 F:3 Exp:NDB5US

Sample Text:TLI#57480 DUPLICATE

INJ. TIME = 21:19 File Text:TLI#57480 D>

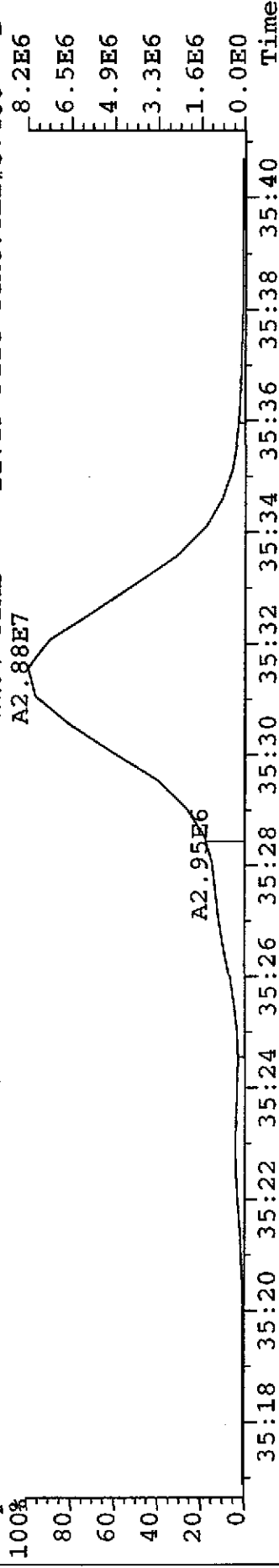


File:T023575 #1-386 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T

375.8178 F:3 Exp:NDB5US

Sample Text:TLI#57480 DUPLICATE

INJ. TIME = 21:19 File Text:TLI#57480 D>

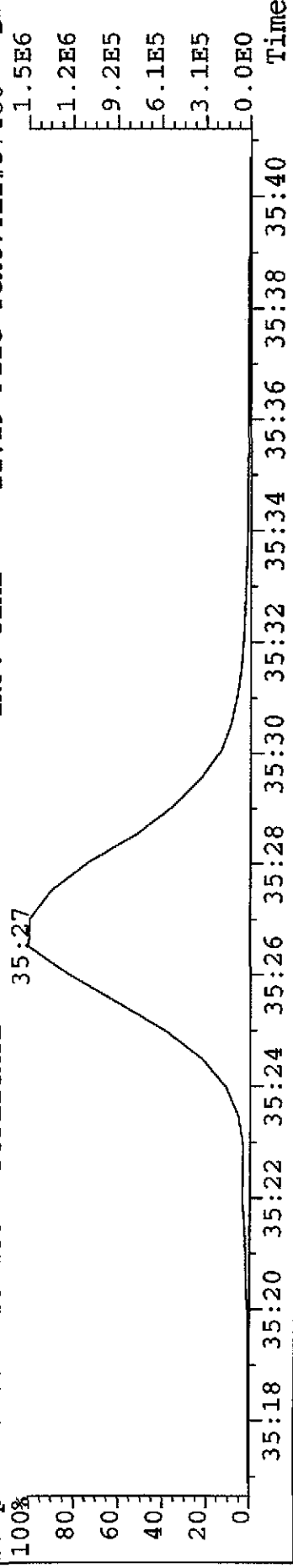


File:T023575 #1-386 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T

385.8610 F:3 Exp:NDB5US

Sample Text:TLI#57480 DUPLICATE

INJ. TIME = 21:19 File Text:TLI#57480 D>



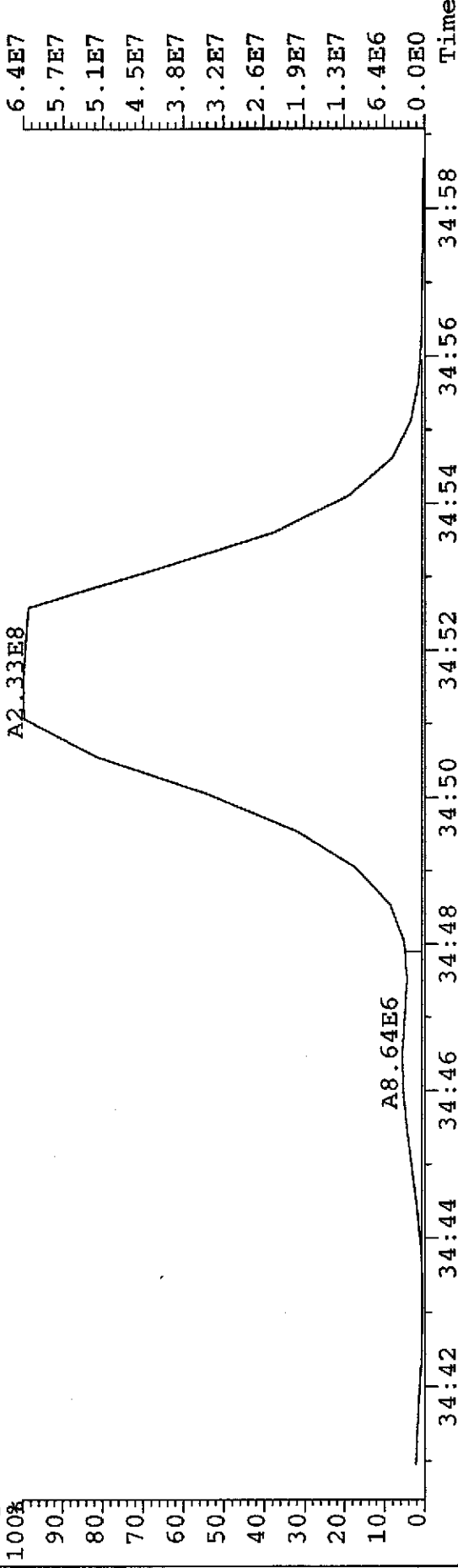
9/1/02

File: T023575 #1-386 Acq: 17-JUL-2002 21:17:21 EI+ Voltage SIR 70T

389.8156 F:3 Exp: NDB5US

Sample Text: TLI#57480 DUPLICATE

INJ. TIME = 21:19 File Text: TLI#57480 D»

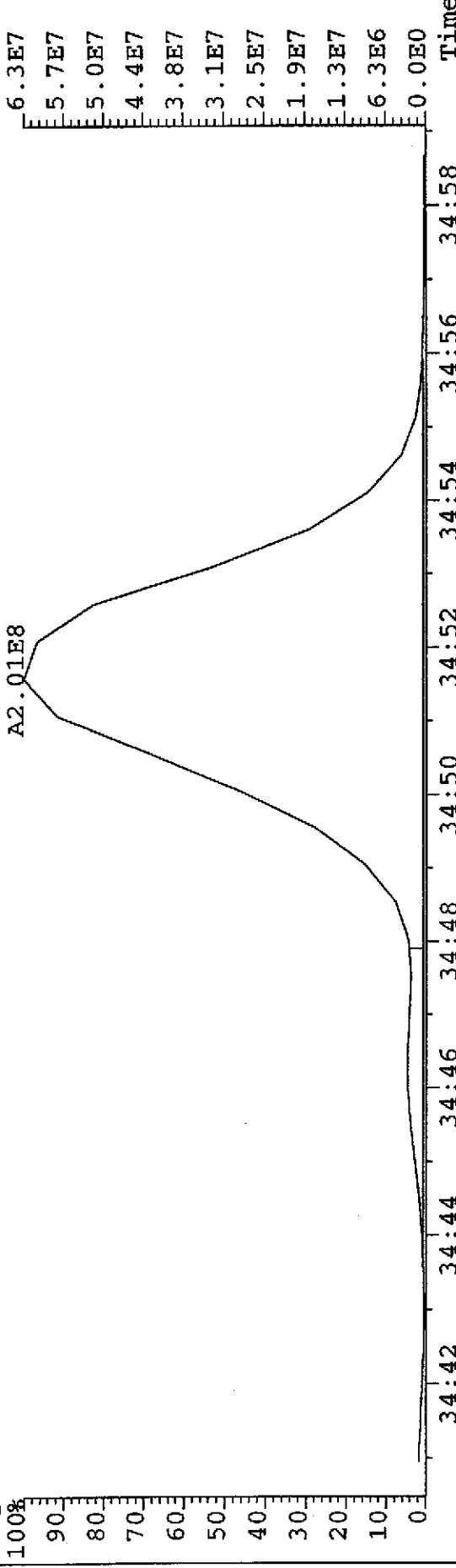


File: T023575 #1-386 Acq: 17-JUL-2002 21:17:21 EI+ Voltage SIR 70T

391.8127 F:3 Exp: NDB5US

Sample Text: TLI#57480 DUPLICATE

INJ. TIME = 21:19 File Text: TLI#57480 D»



Handwritten signature

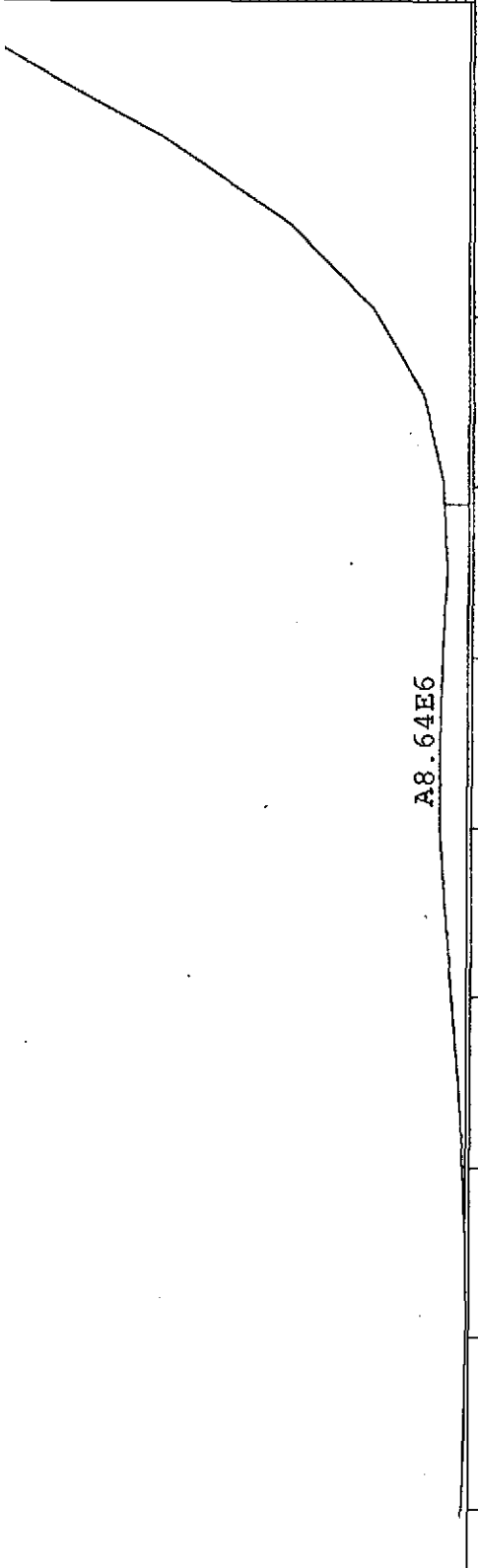
File:T0233575 #1-386 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T

389.8156 F:3 Exp:NDB5US

Sample Text:TLI#57480 DUPLICATE

INJ. TIME = 21:19 File Text:TLI#57480 D>

100% 90 80 70 60 50 40 30 20 10 0



34:42 34:43 34:44 34:45 34:46 34:47 34:48 34:49 34:50 Time

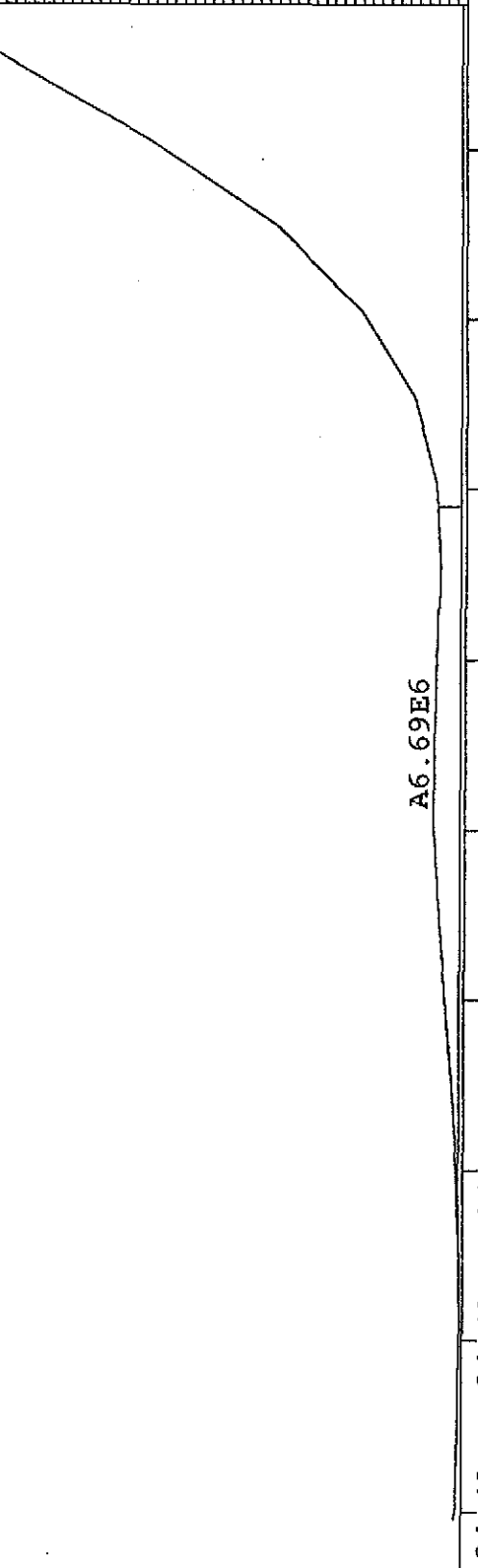
File:T0233575 #1-386 Acq:17-JUL-2002 21:17:21 EI+ Voltage SIR 70T

391.8127 F:3 Exp:NDB5US

Sample Text:TLI#57480 DUPLICATE

INJ. TIME = 21:19 File Text:TLI#57480 D>

100% 90 80 70 60 50 40 30 20 10 0



34:42 34:43 34:44 34:45 34:46 34:47 34:48 34:49 34:50 Time

Handwritten signature

InitialDate...

Data Review By:

VSC *7/18/02*

Channel specific noise levels computed from 'NL' heights.

Page No. 1
07/18/2002

Listing of P022566B.dbf
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				0.794-1.105			
304-306	DC NL	Height	0.29	0.12	0.17				
		19:40	0.75	96.99	41.47	55.52	0.833		
		19:55	0.76	141.80	61.26	80.54	0.844		
		20:10	0.78	821.83	358.90	462.93	0.855		
		20:21	0.77	136.37	59.37	77.00	0.862		
		20:36	0.72	76.66	32.01	44.65	0.873		
		20:47	0.74	4,638.11	1,970.72	2,667.39	0.881		E
		20:55	0.74	749.32	319.37	429.95	0.886		
		21:05	0.73	850.35	359.16	491.19	0.893		
		21:14	0.74	937.40	399.51	537.89	0.900		E
		21:37	0.74	310.44	132.34	178.10	0.916		
		21:55	0.73	126.84	53.51	73.33	0.929		
		22:07	0.78	298.54	130.40	168.14	0.937		
		22:23	0.73	628.25	266.00	362.25	0.948		
		22:38	0.71	164.45	68.10	96.35	0.959		
		22:53	0.77	51.63	22.47	29.16	0.970		
		23:03	0.73	503.89	212.66	291.23	0.977		
		23:12	0.74	377.69	160.82	216.87	0.983		
		23:29	0.74	685.21	291.50	393.71	0.995		
		23:38	0.77	212.48	92.44	120.04	1.001	2378-TCDF	AN
		23:51	0.74	900.46	383.32	517.14	1.011		
		24:09	0.73	185.57	78.61	106.96	1.023		
		24:15	0.72	285.90	119.35	166.55	1.028		
		24:28	0.75	371.76	159.32	212.44	1.037		
		25:04	0.74	1,198.26	508.31	689.95	1.062		E
		25:19 RO	1.39	29.64	17.26	12.38	1.073		
		25:43 RO	1.02	16.42	8.30	8.12	1.090		
	DC WH	26:11	0.75	11,187.08		1.109			
304-306	26	Peaks		14,796.26					
13C12-TCDF		0.65-0.89				0.958-1.042			
316-318	DC NL	Height	0.31	0.09	0.22				
		19:10 RO	0.91	5.34		0.812			
		19:16 RO	2.38	0.27		0.816			
		19:42 RO	1.19	0.46		0.835			
		20:27 RO	1.28	1.30		0.867			
		20:33 RO	0.43	0.63		0.871			
		20:38	0.70	0.39		0.874			
		21:00 RO	0.64	0.41		0.890			
		21:05 RO	1.10	0.84		0.893			
		21:25 RO	2.31	0.53		0.907			
		21:33 RO	0.40	0.59		0.913			
		21:35 RO	2.71	0.63		0.915			
		21:56 RO	1.16	0.41		0.929			
		22:05 RO	0.38	5.27		0.936			
		22:33	0.71	0.72		0.956			

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.

			22:41	RO	0.13	5.13	0.58	4.55	0.961	
DC	SN		22:57	RO	1.67	0.48			0.972	
DC	SN		23:05	RO	1.61	0.86			0.978	
			23:11	RO	0.54	0.80	0.28	0.52	0.982	
DC	SN		23:19	RO	3.21	1.64			0.988	
			23:36		0.77	406.39	176.57	229.82	1.000	13C12-2378-TCDF ISO
					Height	98.48	42.84	55.64		
			23:50	RO	1.51	2.38	1.43	0.95	1.010	
			23:52	RO	0.28	1.47	0.32	1.15	1.011	
			23:59	RO	0.63	1.69	0.65	1.04	1.016	
			24:16		0.87	16.40	7.63	8.77	1.028	
DC	WH		24:42	RO	1.40	0.48			1.047	
DC	WH		24:46	RO	0.57	0.36			1.049	
DC	WH		24:57	RO	0.37	0.63			1.057	
DC	WH		25:39	RO	0.05	3.17			1.087	
DC	WH		25:51		0.77	2.59			1.095	

316-318

7 Peaks 434.26

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

13C12-TCDD			0.65-0.89					0.910-1.090		
332-334	DC	NL			Height	0.50	0.36	0.14		
	DC	SN	20:41	RO	4.00	0.50			0.934	
	DC	SN	21:15	RO	1.21	0.31			0.960	
			22:08		0.77	265.38	115.67	149.71	1.000	13C12-2378-TCDD IS1
					Height	63.67	27.82	35.85		
			22:26		0.80	324.58	144.38	180.20	1.014	13C12-1234-TCDD RS1
	DC	SN	23:06	RO	1.53	0.48			1.044	
	DC	SN	24:04	RO	0.04	13.16			1.087	

332-334

2 Peaks 589.96

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

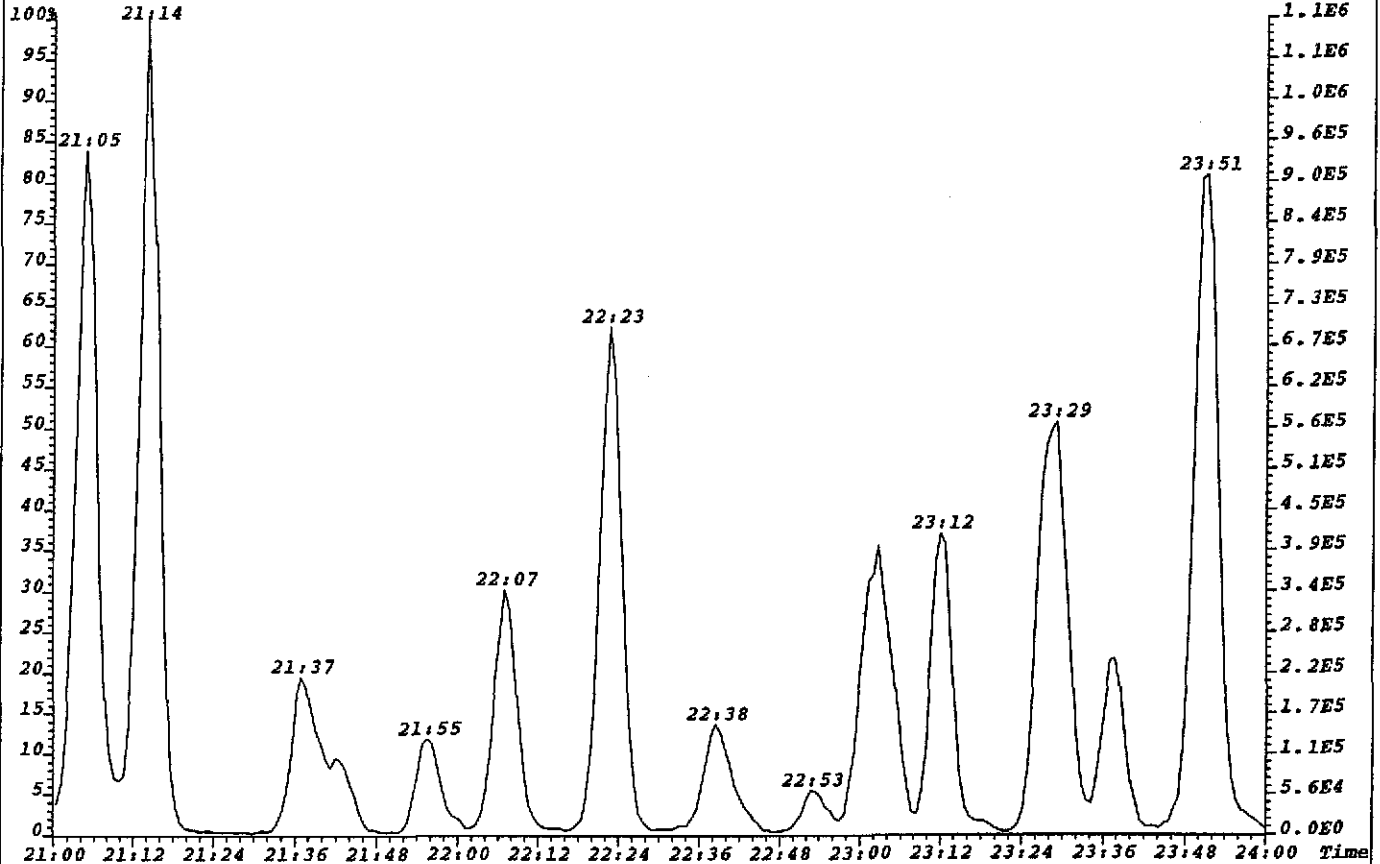
*** End of Report ***

File:P022566 #1-3025 Acq:18-JUL-2002 17:15:00 EI+ Voltage SIR 70P

303.9016 GC:DB225 Exp:none

TRIANGLE LABS Text:TLI#57840 DUPLICATE

INJ. TIME = 17:15

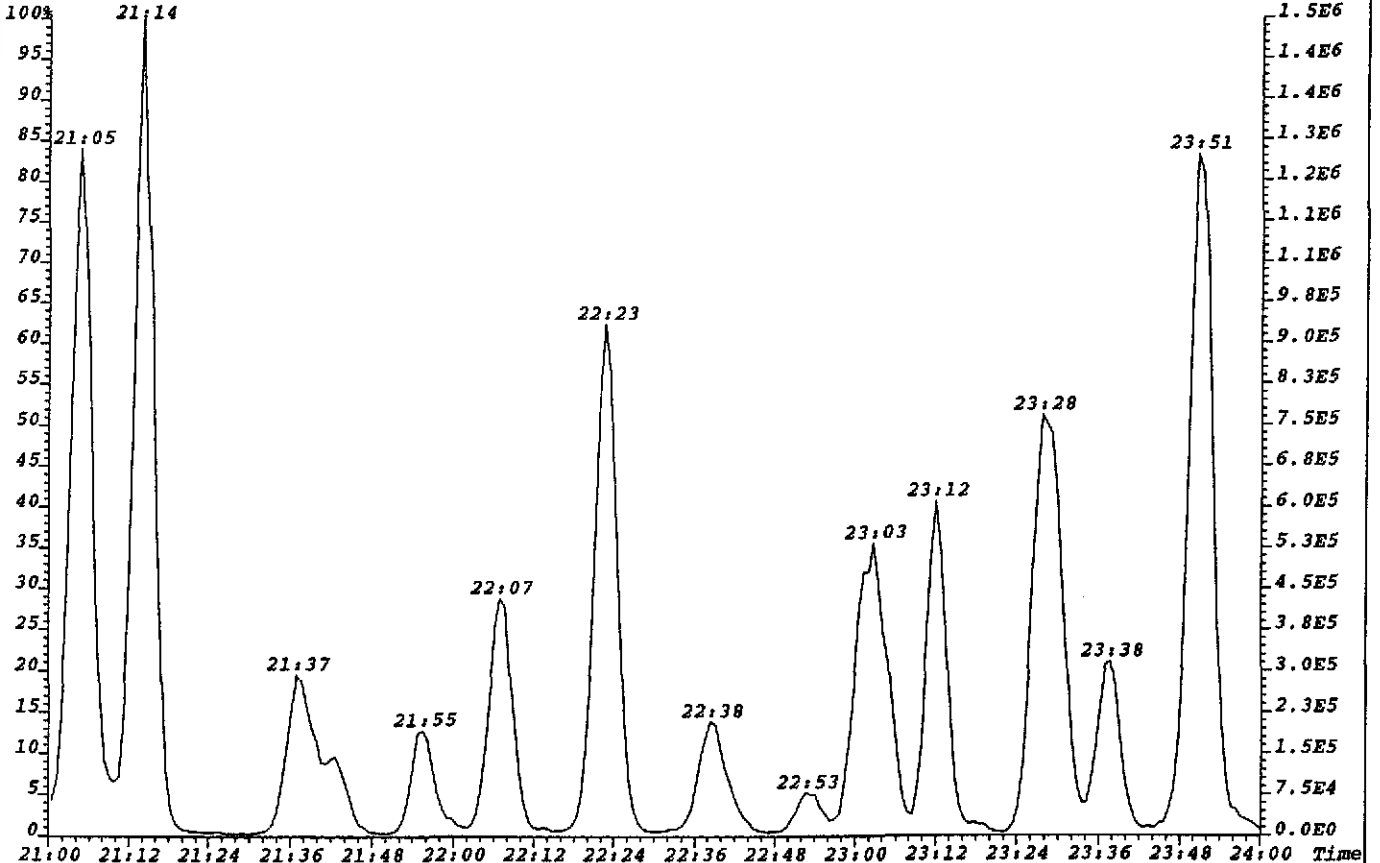


File:P022566 #1-3025 Acq:18-JUL-2002 17:15:00 EI+ Voltage SIR 70P

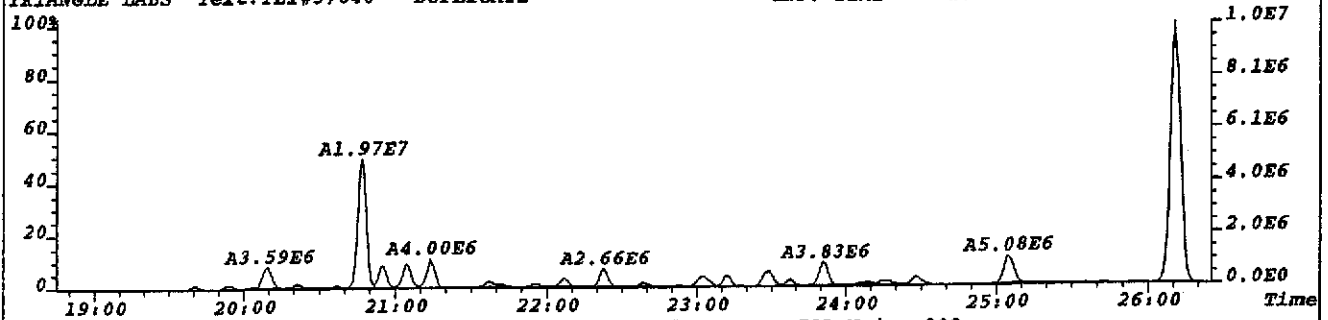
305.8987 GC:DB225 Exp:none

TRIANGLE LABS Text:TLI#57840 DUPLICATE

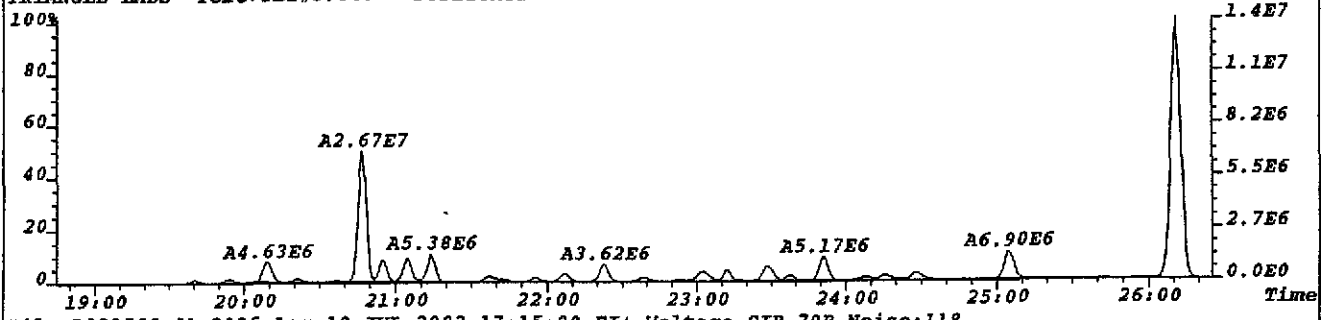
INJ. TIME = 17:15



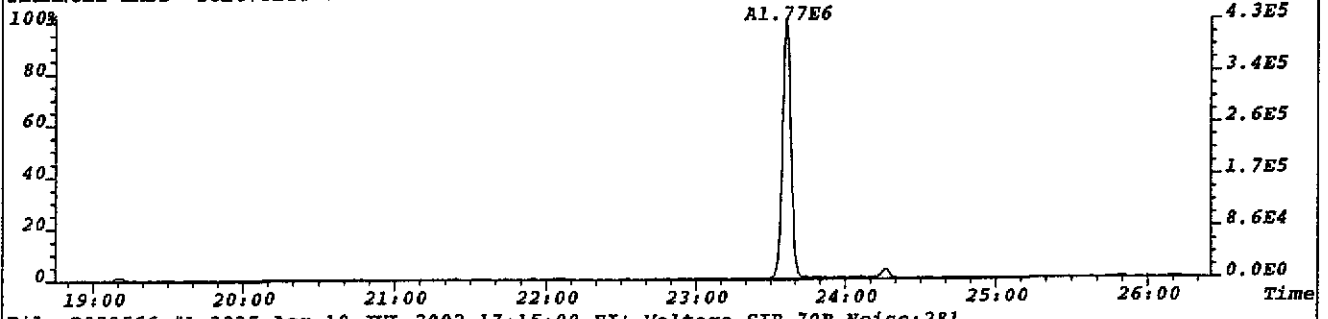
File: P022566 #1-3025 Acq: 18-JUL-2002 17:15:00 EI+ Voltage SIR 70P Noise: 153
303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,612.0,0.00%,F,F) Exp: DB225
TRIANGLE LABS Text: TLI#57840 DUPLICATE INJ. TIME = 17:15



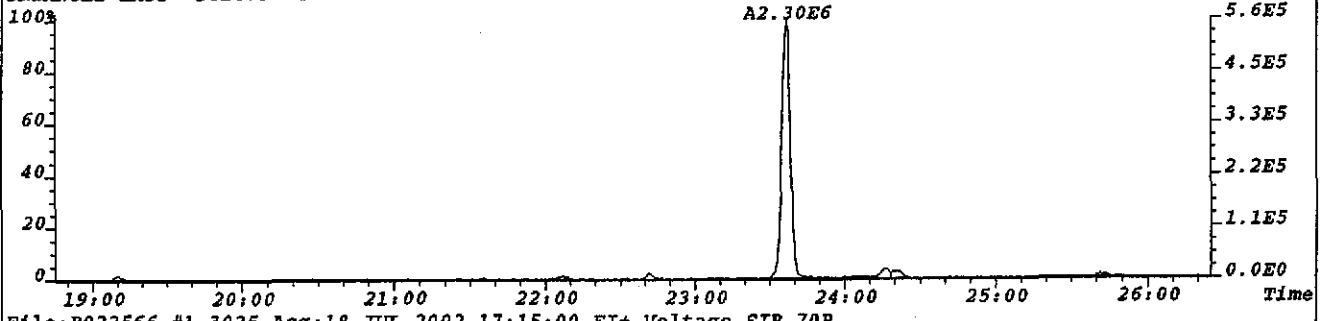
File: P022566 #1-3025 Acq: 18-JUL-2002 17:15:00 EI+ Voltage SIR 70P Noise: 209
305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,836.0,0.00%,F,F) Exp: DB225
TRIANGLE LABS Text: TLI#57840 DUPLICATE INJ. TIME = 17:15



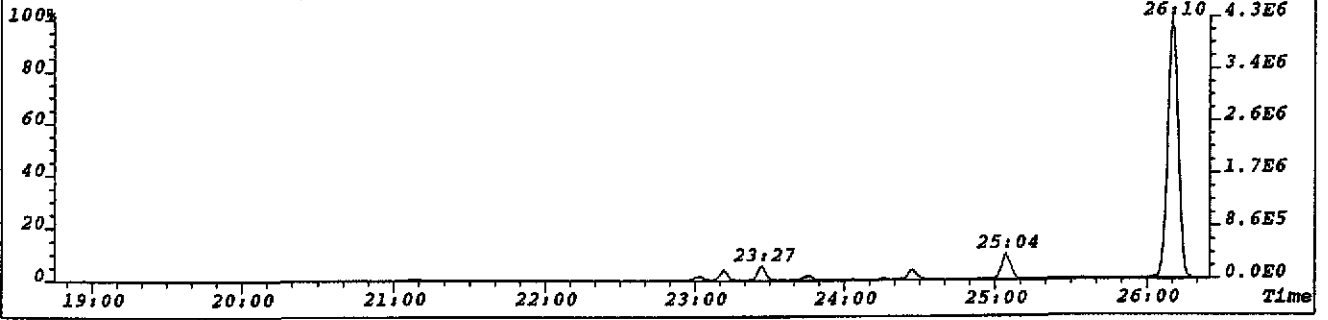
File: P022566 #1-3025 Acq: 18-JUL-2002 17:15:00 EI+ Voltage SIR 70P Noise: 118
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,472.0,0.00%,F,F) Exp: DB225
TRIANGLE LABS Text: TLI#57840 DUPLICATE INJ. TIME = 17:15



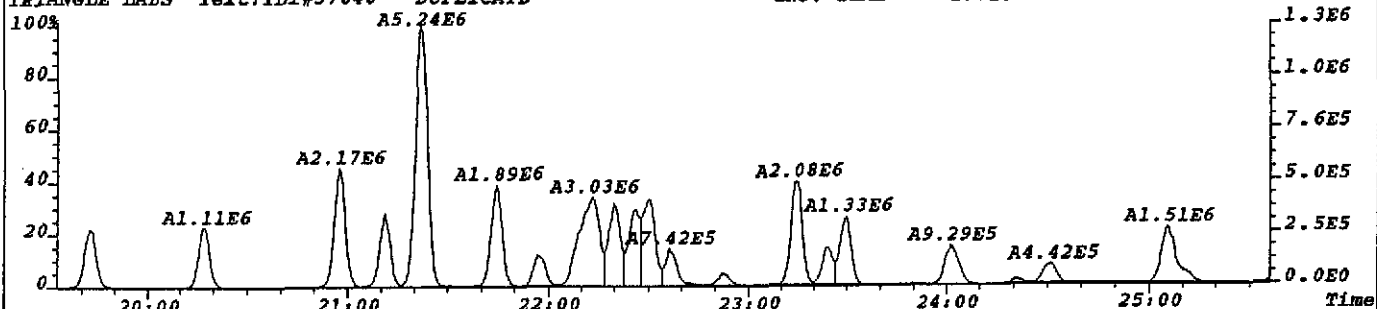
File: P022566 #1-3025 Acq: 18-JUL-2002 17:15:00 EI+ Voltage SIR 70P Noise: 281
317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1124.0,0.00%,F,F) Exp: DB225
TRIANGLE LABS Text: TLI#57840 DUPLICATE INJ. TIME = 17:15



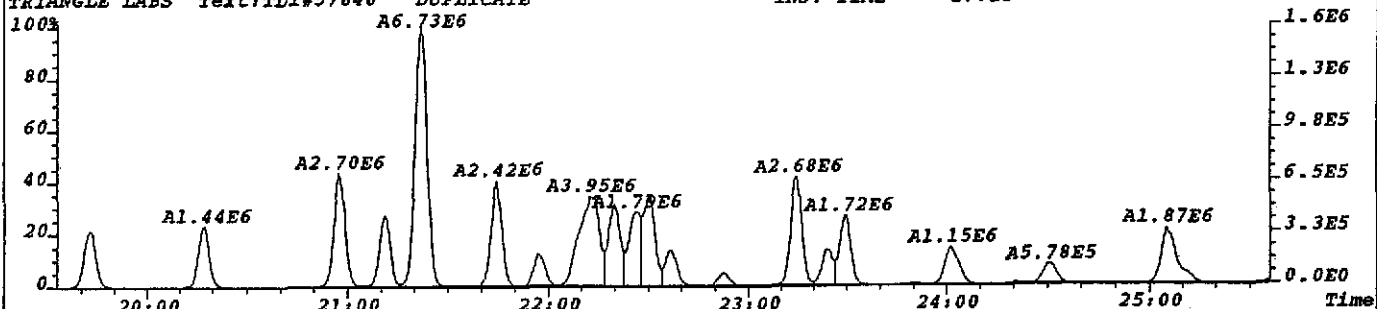
File: P022566 #1-3025 Acq: 18-JUL-2002 17:15:00 EI+ Voltage SIR 70P
375.8364 Exp: DB225
TRIANGLE LABS Text: TLI#57840 DUPLICATE INJ. TIME = 17:15



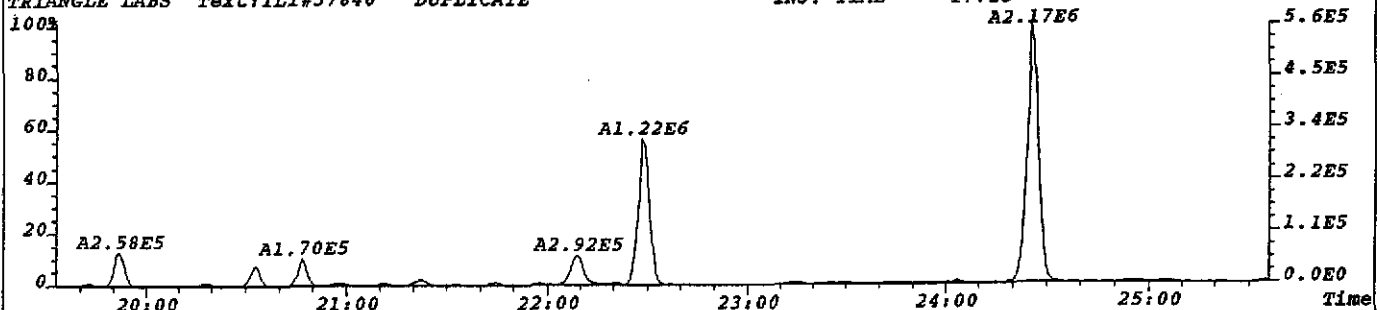
File:P022566 #1-3025 Acq:18-JUL-2002 17:15:00 EI+ Voltage SIR 70P Noise:200
319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,800.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57840 DUPLICATE INJ. TIME = 17:15



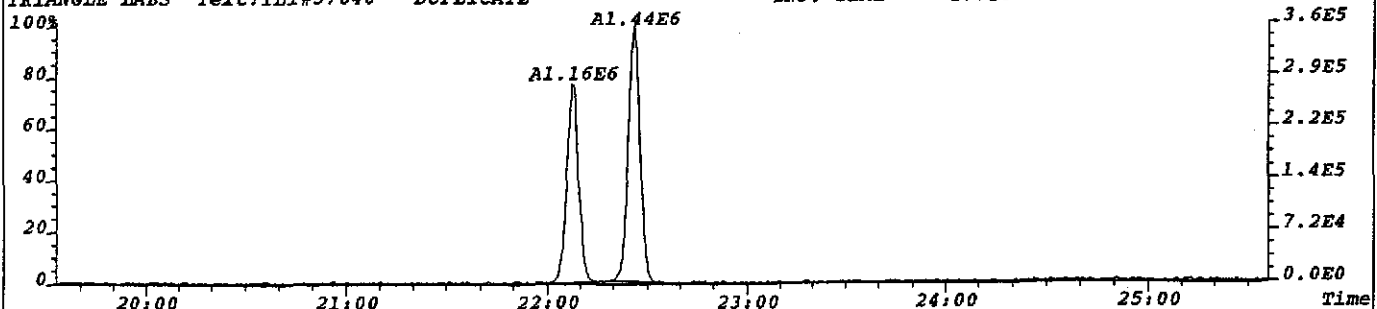
File:P022566 #1-3025 Acq:18-JUL-2002 17:15:00 EI+ Voltage SIR 70P Noise:99
321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,396.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57840 DUPLICATE INJ. TIME = 17:15



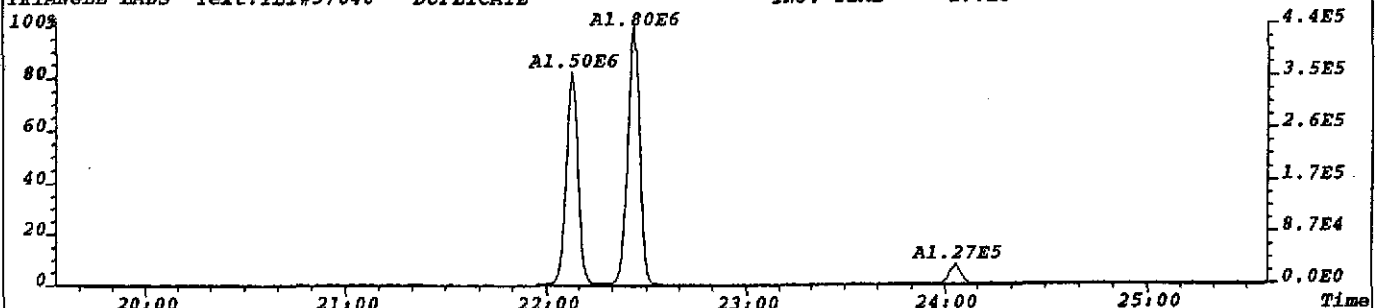
File:P022566 #1-3025 Acq:18-JUL-2002 17:15:00 EI+ Voltage SIR 70P Noise:136
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,544.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57840 DUPLICATE INJ. TIME = 17:15



File:P022566 #1-3025 Acq:18-JUL-2002 17:15:00 EI+ Voltage SIR 70P Noise:446
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1784.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57840 DUPLICATE INJ. TIME = 17:15



File:P022566 #1-3025 Acq:18-JUL-2002 17:15:00 EI+ Voltage SIR 70P Noise:169
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,676.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57840 DUPLICATE INJ. TIME = 17:15

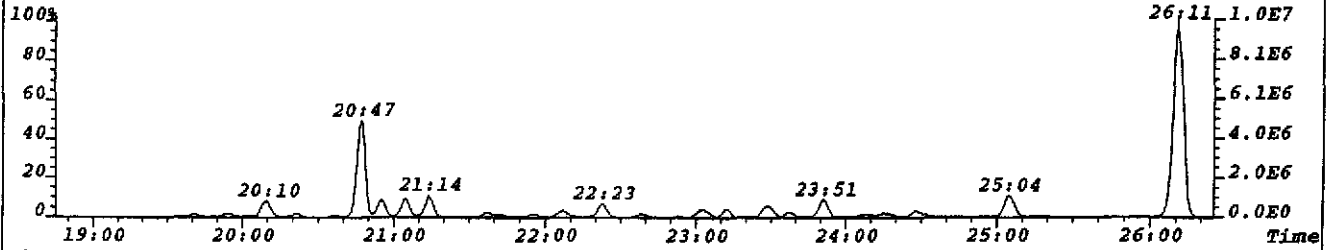


File:P022566 #1-3025 Acq:18-JUL-2002 17:15:00 EI+ Voltage SIR 70P

303.9016 Exp:DB225

TRIANGLE LABS Text:TLI#57840 DUPLICATE

INJ. TIME = 17:15

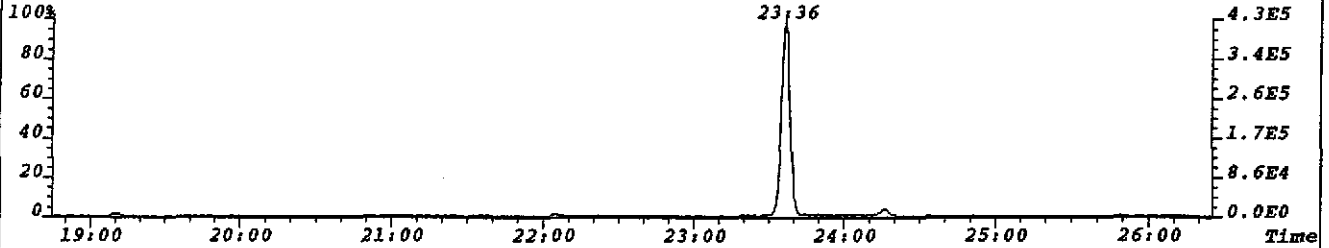


File:P022566 #1-3025 Acq:18-JUL-2002 17:15:00 EI+ Voltage SIR 70P

315.9419 Exp:DB225

TRIANGLE LABS Text:TLI#57840 DUPLICATE

INJ. TIME = 17:15

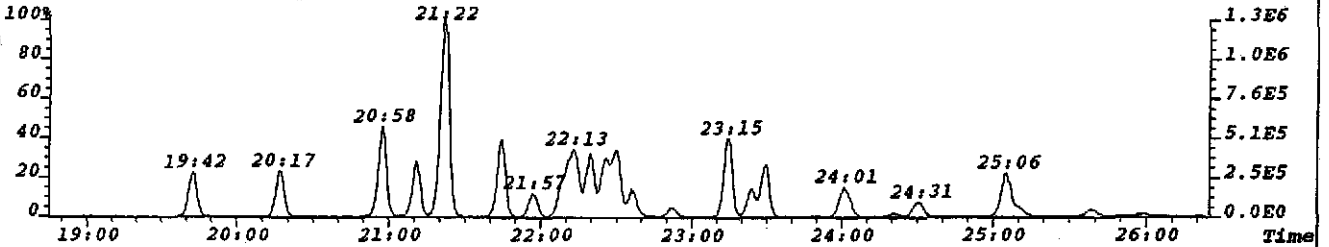


File:P022566 #1-3025 Acq:18-JUL-2002 17:15:00 EI+ Voltage SIR 70P

319.8965 Exp:DB225

TRIANGLE LABS Text:TLI#57840 DUPLICATE

INJ. TIME = 17:15

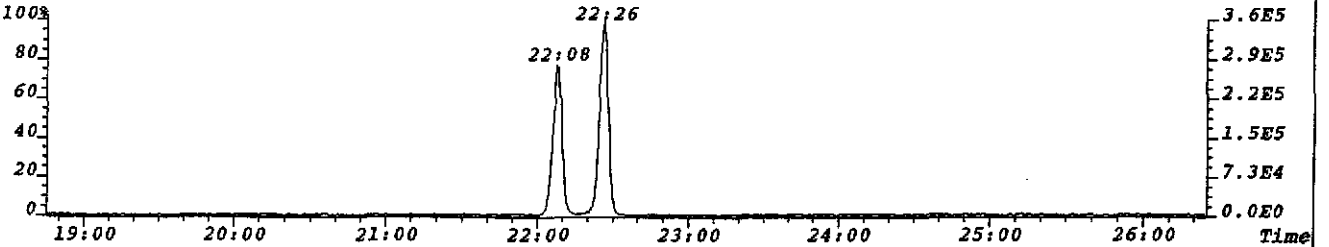


File:P022566 #1-3025 Acq:18-JUL-2002 17:15:00 EI+ Voltage SIR 70P

331.9368 Exp:DB225

TRIANGLE LABS Text:TLI#57840 DUPLICATE

INJ. TIME = 17:15

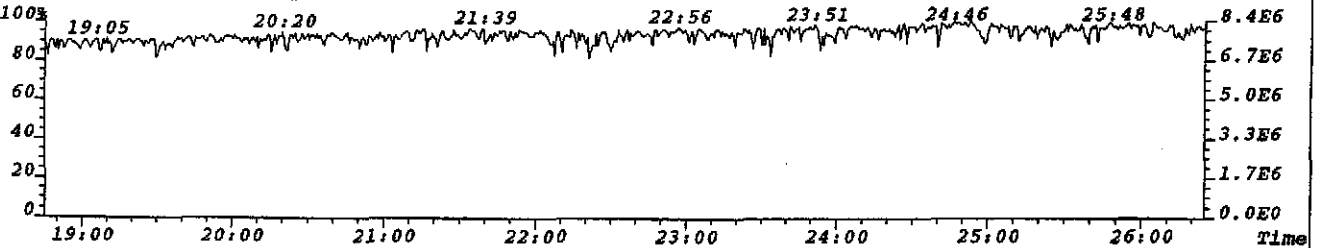


File:P022566 #1-3025 Acq:18-JUL-2002 17:15:00 EI+ Voltage SIR 70P

292.9825 Exp:DB225

TRIANGLE LABS Text:TLI#57840 DUPLICATE

INJ. TIME = 17:15

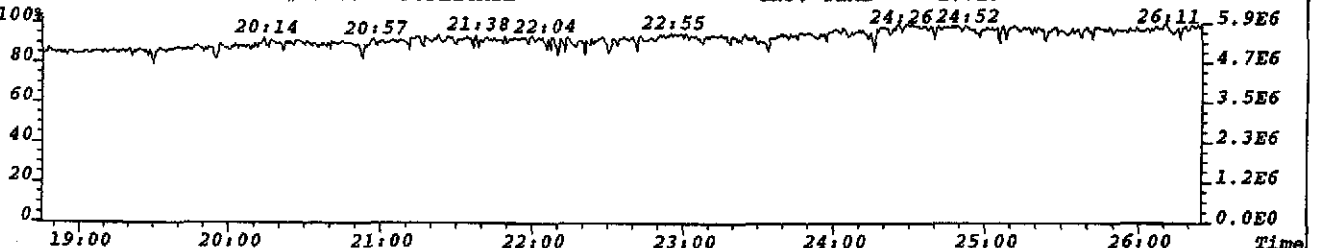


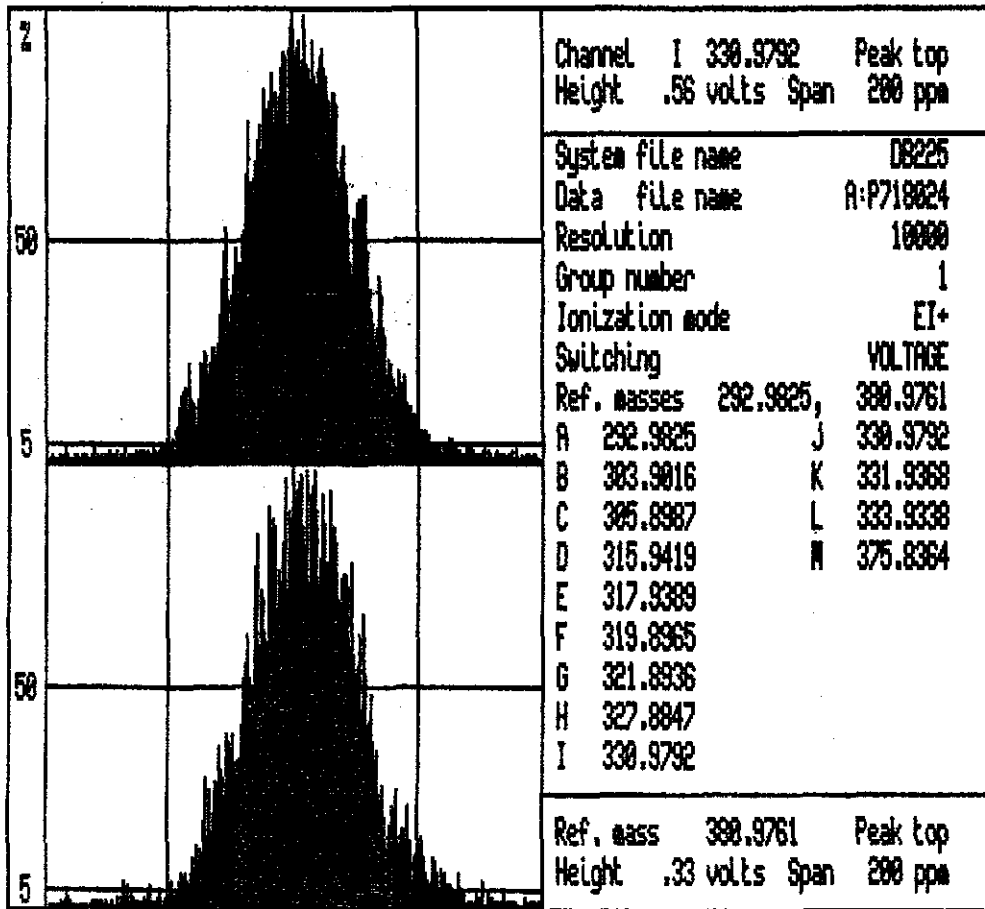
File:P022566 #1-3025 Acq:18-JUL-2002 17:15:00 EI+ Voltage SIR 70P

330.9792 Exp:DB225

TRIANGLE LABS Text:TLI#57840 DUPLICATE

INJ. TIME = 17:15





Martin & Slagle

TLI Project: 57840
 Client Sample: CleanUp Blk

1613, Revision B PCDD/PCDF Analysis (c)
 Analysis File: T023584

Client Project: Dioxin/Furan Analysis			
Sample Matrix: SOLID	Date Received: / /	Spike File: SP161B2S	
TLI ID: TLI Clean-Up	Date Extracted: 07/12/2002	ICal: TF5612B	
	Date Analyzed: 07/18/2002	ConCal: TB23571	
Sample Size: 10.000 g	Dilution Factor: n/a	% Moisture: n/a	
Dry Weight: n/a	Blank File: W108202	% Lipid: n/a	
GC Column: DB-5	Analyst: JMM	% Solids: n/a	

Analytes	Conc. (pg/g)	DL	Ratio	RT	RRT	Flags
2,3,7,8-TCDD	ND	0.2				---
1,2,3,7,8-PeCDD	ND	0.2				---
1,2,3,4,7,8-HxCDD	ND	0.2				---
1,2,3,6,7,8-HxCDD	ND	0.2				---
1,2,3,7,8,9-HxCDD	ND	0.2				---
1,2,3,4,6,7,8-HpCDD	ND	0.3				---
1,2,3,4,6,7,8,9-OCDD	ND	0.5				---
2,3,7,8-TCDF	ND	0.2				---
1,2,3,7,8-PeCDF	ND	0.2				---
2,3,4,7,8-PeCDF	ND	0.2				---
1,2,3,4,7,8-HxCDF	ND	0.1				---
1,2,3,6,7,8-HxCDF	ND	0.1				---
2,3,4,6,7,8-HxCDF	ND	0.1				---
1,2,3,7,8,9-HxCDF	ND	0.2				---
1,2,3,4,6,7,8-HpCDF	ND	0.2				---
1,2,3,4,7,8,9-HpCDF	ND	0.3				---
1,2,3,4,6,7,8,9-OCDF	ND	0.4				---

Totals	Conc. (pg/g)	Number	DL	Flags
Total TCDD	ND		0.2	---
Total PeCDD	ND		0.2	---
Total HxCDD	ND		0.2	---
Total HpCDD	ND		0.3	---
Total TCDF	ND		0.2	---
Total PeCDF	ND		0.2	---
Total HxCDF	ND		0.1	---
Total HpCDF	ND		0.2	---

Martin & Slagle

TLI Project: 57840
 Client Sample: CleanUp Blk

1613, Revision B PCDD/PCDF Analysis (c)
 Analysis File: T023584

Internal Standards	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	RRT	Flags
¹³ C ₁₂ -2,3,7,8-TCDD	141	70.5	25%-164%	0.81	27:29	1.007	—
¹³ C ₁₂ -1,2,3,7,8-PeCDD	154	77.1	25%-181%	1.52	31:39	1.159	—
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	165	82.7	32%-141%	1.20	34:44	0.988	—
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	170	85.2	28%-130%	1.21	34:50	0.991	—
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	186	93.2	23%-140%	1.03	38:11	1.086	—
¹³ C ₁₂ -1,2,3,4,6,7,8,9-OCDD	273	68.2	17%-157%	0.90	42:00	1.195	—
¹³ C ₁₂ -2,3,7,8-TCDF	158	78.9	24%-169%	0.74	26:47	0.981	—
¹³ C ₁₂ -1,2,3,7,8-PeCDF	149	74.6	24%-185%	1.44	30:39	1.123	—
¹³ C ₁₂ -2,3,4,7,8-PeCDF	154	76.9	21%-178%	1.45	31:19	1.147	—
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	165	82.5	26%-152%	0.50	34:02	0.968	—
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	180	90.1	26%-123%	0.51	34:08	0.971	—
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	189	94.6	28%-136%	0.50	34:38	0.985	—
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	204	102	29%-147%	0.51	35:26	1.008	—
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	178	89.2	28%-143%	0.43	37:07	1.056	—
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	193	96.6	26%-138%	0.43	38:43	1.101	—

Cleanup Standard	Conc. (pg/g)	% Recovery	QC Limits	RT	RRT	Flags
³⁷ Cl ₄ -2,3,7,8-TCDD	13.9	69.7	35%-197%	27:30	1.007	—

Recovery Standards	Ratio	RT	Flags
¹³ C ₁₂ -1,2,3,4-TCDD	0.82	27:18	—
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.21	35:09	—

Data Reviewer: _____ 07/18/2002

TLI Project: 57840
 Client Sample: CleanUp Blk

Toxicity Equivalents Report
 Analysis File: T023584

Client Project:	Dioxin/Furan Analysis		
Sample Matrix:	SOLID	Date Received:	07/11/02
TLI ID:	TLI Clean-Up	Date Extracted:	07/12/02
		Date Analyzed:	07/18/02
		Spike File:	SP161B2S
		ICal:	TF5612B
		ConCal:	TB23571
Sample Size:	10.000 g	Dilution Factor:	1
Dry Weight:	n/a	Blank File:	W108202
GC Column:	DB-5	Analyst:	JMM
		% Moisture:	n/a
		% Lipid:	n/a
		% Solids:	n/a

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	{0.2}	x	1	=	0.2
1,2,3,7,8-PeCDD	{0.2}	x	0.5	=	0.1
1,2,3,4,7,8-HxCDD	{0.2}	x	0.1	=	0.02
1,2,3,6,7,8-HxCDD	{0.2}	x	0.1	=	0.02
1,2,3,7,8,9-HxCDD	{0.2}	x	0.1	=	0.02
1,2,3,4,6,7,8-HpCDD	{0.3}	x	0.01	=	0.003
1,2,3,4,6,7,8,9-OCDD	{0.5}	x	0.001	=	0.0005
TOTAL PCDD					0.4
2,3,7,8-TCDF	{0.2}	x	0.1	=	0.02
1,2,3,7,8-PeCDF	{0.2}	x	0.05	=	0.01
2,3,4,7,8-PeCDF	{0.2}	x	0.5	=	0.1
1,2,3,4,7,8-HxCDF	{0.1}	x	0.1	=	0.01
1,2,3,6,7,8-HxCDF	{0.1}	x	0.1	=	0.01
2,3,4,6,7,8-HxCDF	{0.1}	x	0.1	=	0.01
1,2,3,7,8,9-HxCDF	{0.2}	x	0.1	=	0.02
1,2,3,4,6,7,8-HpCDF	{0.2}	x	0.01	=	0.002
1,2,3,4,7,8,9-HpCDF	{0.3}	x	0.01	=	0.003
1,2,3,4,6,7,8,9-OCDF	{0.4}	x	0.001	=	0.0004
TOTAL PCDF					0.2

Total EPA TEFs, 1989a: 0.5 pg/g

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

InitialDate...

Data Review By:

PK J. R. on

Calculated Noise Height: 0.05

Page No. 1
07/18/2002

Listing of T023584B.dbf
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		0.881-1.070	
304-306	DC NL	Height	0.14	0.07	0.07
304-306	0 Peaks		0.00		
13C12-TCDF		0.65-0.89		0.945-1.131	
316-318	DC NL	Height	0.15	0.07	0.08
	26:04	0.81	1.41	0.63	0.78 0.973
	26:24	0.68	4.14	1.68	2.46 0.986
	26:47	0.74	606.61	258.84	347.77 1.000 13C12-2378-TCDF ISO
		Height	151.38	64.35	87.03
	27:28	0.67	2.79	1.12	1.67 1.026
316-318	4 Peaks		614.95		

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

TCDD		0.65-0.89		0.906-1.041	
320-322	DC NL	Height	0.14	0.07	0.07
	DC SN 25:50	0.73	0.19		0.940
	DC SN 26:47 RO	3.25	1.02		0.975
	DC SN 27:09 RO	0.57	0.36		0.988
320-322	0 Peaks		0.00		

37C1-TCDD		0.927-1.073			
328	DC NL	Height	0.07	0.07	
	26:08	0.22	0.22		0.951
	27:30	45.20	45.20		1.001 37C1-TCDD CLS
	27:48	0.65	0.65		1.012
	DC SN 27:57	0.10			1.017
	DC SN 28:02	0.04			1.020
	DC SN 28:03	0.07			1.021
	DC SN 28:06	0.06			1.022
328	3 Peaks		46.07		

13C12-TCDD		0.65-0.89		0.921-1.066	
332-334	DC NL	Height	0.24	0.17	0.07
	27:18	0.82	586.49	264.11	322.38 0.993 13C12-1234-TCDD RS1
	27:29	0.81	466.94	208.32	258.62 1.000 13C12-2378-TCDD IS1
		Height	117.43	52.55	64.88
	28:49 RO	1.85	0.74	0.48	0.26 1.049
332-334	3 Peaks		1,054.17		

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

PeCDF		1.32-1.78		0.911-1.036	
340-342	DC NL	Height	0.13	0.06	0.07
	DC SN 29:44 RO	4.40	0.27		0.949
	DC SN 29:57 RO	2.25	0.13		0.956

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	30:06	RO	0.40		0.21			0.961		
	DC	SN	30:17	RO	0.42		0.17			0.967		
	DC	SN	30:27	RO	3.60		0.23			0.972		
	DC	SN	30:32	RO	0.43		0.57			0.975		
D	D	SN	30:39		1.50		0.80			1.000	12378-PeCDF	AN
	DC	SN	30:46		1.38		0.31			0.982		
	DC	SN	31:37	RO	1.08		0.25			1.010		
	DC	SN	32:02	RO	1.22		0.20			1.023		
	DC	SN	32:09	RO	2.00		0.12			1.027		
	DC	WH	32:28	RO	2.25		0.39			1.037		
	DC	WH	32:32		1.67		0.16			1.039		
340-342			0 Peaks				0.00					

13C12-PeCDF			1.32-1.78							0.809-1.128		
352-354	DC	NL	Height			0.12	0.05			0.07		
			29:49	RO	0.90	1.33	0.63			0.70	0.952	
			30:39		1.44	508.39	300.26	208.13	1.000	13C12-PeCDF	123	IS2
			Height			135.19	79.88	55.31				
			30:54		1.62	11.23	6.94	4.29	0.987			
			31:07	RO	1.79	1.90	1.22	0.68	0.994			
			31:19		1.45	534.23	315.92	218.31	1.000	13C12-PeCDF	234	IS3
			Height			149.07	88.50	60.57				
			32:17	RO	1.25	5.26	2.92	2.34	1.031			
352-354			6 Peaks			1,062.34						

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

PeCDD			1.32-1.78							0.939-1.020		
356-358	DC	NL	Height			0.13	0.07			0.06		
	DC	SN	31:30	RO	0.61	0.29				0.995		
356-358			0 Peaks			0.00						
13C12-PeCDD			1.32-1.78							0.737-1.053		
368-370	DC	NL	Height			0.11	0.06			0.05		
			30:36	RO	1.19	1.29	0.70	0.59	0.967			
			30:44	RO	1.22	2.06	1.13	0.93	0.971			
	DC	SN	31:20	RO	1.00	0.38				0.990		
			31:39		1.52	375.79	226.92	148.87	1.000	13C12-PeCDD	123	IS4
			Height			109.62	66.56	43.06				
			32:11	RO	0.63	0.85	0.33	0.52	1.017			
368-370			4 Peaks			379.99						

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

HxCDF			1.05-1.43							0.929-1.007		
374-376	DC	NL	Height			0.15	0.08			0.07		
374-376			0 Peaks			0.00						
13C12-HxCDF			0.43-0.59							0.879-1.105		
384-386	DC	NL	Height			0.20	0.13			0.07		
			34:02		0.50	486.81	162.75	324.06	1.000	13C12-HxCDF	478	IS5
			Height			150.51	49.58	100.93				

Compound/

M_Z....	QC.Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
				34:08		0.51	538.64	181.18	357.46	1.000	13C12-HxCDF	678	IS6
				Height			149.42	50.08	99.34				
				34:29	RO	0.12	1.04	0.11	0.93	0.973			
				34:38		0.50	552.39	184.78	367.61	1.000	13C12-HxCDF	234	IS7
				Height			166.85	56.40	110.45				
				35:26		0.51	498.55	167.87	330.68	1.000	13C12-HxCDF	789	IS8
				Height			125.44	42.37	83.07				
				35:43	RO	1.56	1.00	0.61	0.39	1.008			
				35:48	RO	1.38	0.50	0.29	0.21	1.010			
384-386				7 Peaks			2,078.93						

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

HxCDD				1.05-1.43				0.959-1.013
390-392	DC	NL	Height	0.14	0.06	0.08		
	D	SN	34:38 RO	3.19	0.88	0.997	123478-HxCDD	AN
	DC	WH	35:26	1.26	0.86	1.017		
390-392			0 Peaks		0.00			

13C12-HxCDD				1.05-1.43				0.983-1.041
402-404	DC	NL	Height	0.14	0.08	0.06		
			34:12 RO	0.95	1.27	0.62	0.65	0.985
			34:44	1.20	361.00	196.89	164.11	1.000 13C12-HxCDD 478 IS9
			Height		111.29	61.15	50.14	
			34:50	1.21	406.74	223.03	183.71	1.000 13C12-HxCDD 678 IS10
			Height		113.53	62.56	50.97	
			35:09	1.21	497.94	272.87	225.07	1.012 13C12-HxCDD 789 RS2
			35:31 RO	0.86	0.91	0.42	0.49	1.023
			35:34 RO	3.33	0.78	0.60	0.18	1.024
402-404			6 Peaks		1,268.64			

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

HpCDF				0.88-1.20				0.955-1.005
408-410	DC	NL	Height	0.18	0.09	0.09		
	D	SN	37:07 RO	0.61	0.82	1.000	1234678-HpCDF	AN
	DC	SN	38:07	1.13	0.32	0.985		
	DC	SN	38:20	1.17	0.26	0.990		
	DC	SN	38:24	0.90	0.19	0.992		
408-410			0 Peaks		0.00			

13C12-HpCDF				0.37-0.51				0.857-1.141
418-420	DC	NL	Height	0.17	0.08	0.09		
			37:07	0.43	370.16	112.15	258.01	1.000 13C12-HpCDF 678 IS11
			Height		93.45	28.73	64.72	
			37:29 RO	0.34	1.66	0.42	1.24	0.968
			38:43	0.43	322.34	97.06	225.28	1.000 13C12-HpCDF 789 IS12
			Height		68.70	19.91	48.79	
			39:06 RO	2.65	0.84	0.61	0.23	1.010
418-420			4 Peaks		695.00			

Compound/

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

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

Compound	DC	NL	Height	0.10	0.05	0.05	0.976-1.005
HpCDD			0.88-1.20				
424-426	DC	NL	Height	0.10	0.05	0.05	
424-426			0 Peaks	0.00			
13C12-HpCDD			0.88-1.20				0.868-1.078
436-438	DC	NL	Height	0.21	0.13	0.08	
			38:11	1.03	366.19	185.90	180.29 1.000 13C12-HpCDD 678 IS13
			Height	85.84	43.57	42.27	
436-438			1 Peak	366.19			

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

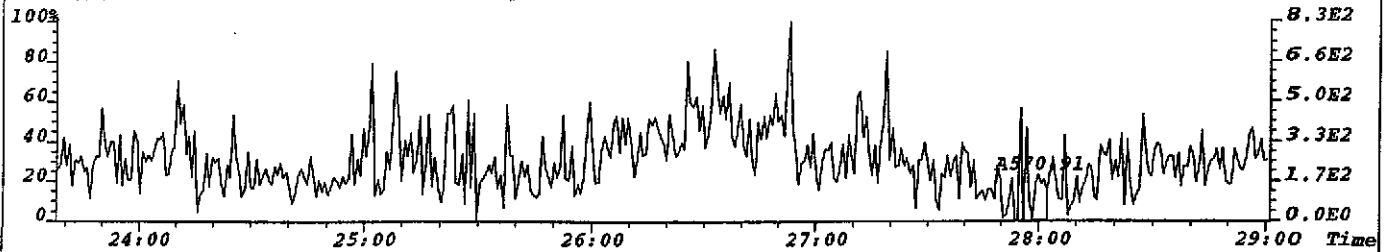
Compound	DC	NL	Height	0.12	0.06	0.06	0.952-1.048
OCDF			0.76-1.02				
442-444	DC	NL	Height	0.12	0.06	0.06	
	DC	WL	36:38 RO 1.20	0.11			0.872
	DC	WL	37:53 RO 0.50	0.24			0.902
	DC	WL	39:46 RO 0.54	0.20			0.947
	DC	SN	42:18 RO 1.58	0.31			1.007
	DC	SN	42:25 RO 1.50	0.20			1.010
	DC	SN	43:25 1.00	0.30			1.034
	DC	WH	44:05 0.80	0.54			1.050
	DC	WH	44:18 RO 5.50	0.13			1.055
	DC	WH	44:39 RO 1.22	0.20			1.063
442-444			0 Peaks	0.00			
OCDD			0.76-1.02				0.952-1.048
458-460	DC	NL	Height	0.10	0.05	0.05	
	DC	SN	41:55 RO 3.00	0.32			0.998
	D	SN	42:00 RO 1.09	0.73			1.000 OCDD AN
	DC	SN	42:12 0.86	0.13			1.005
458-460			0 Peaks	0.00			
13C12-OCDD			0.76-1.02				0.996-1.004
470-472	DC	NL	Height	0.11	0.06	0.05	
			42:00	0.90	504.06	239.05	265.01 1.000 13C12-OCDD IS14
			Height	99.44	47.99	51.45	
470-472			1 Peak	504.06			

Column Description..... "Why" Code Description..... QC Log Desc.....

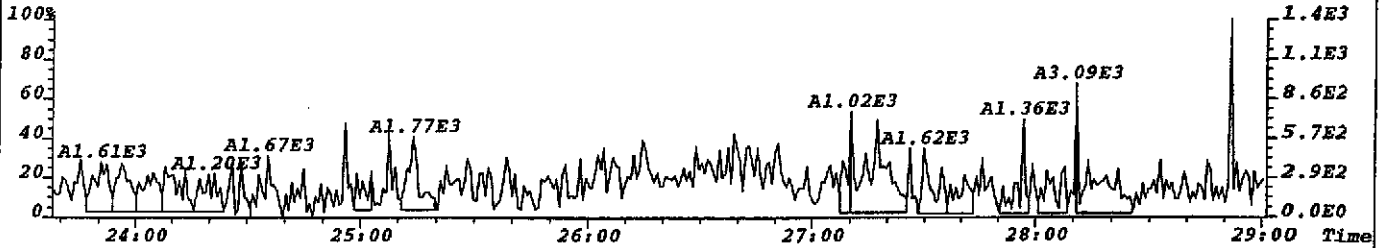
M_Z -Nominal Ion Mass(es) WL-Below Retention Time Window A-Peak Added
 ..RT. -Retention Time (mm:ss) WH-Above Retention Time Window K-Peak Kept
 Rat.1 -Ratio of M/M+2 Ions SN-Below Signal to Noise Level D-Peak Deleted
 OK -RO=Ratio Outside Limits <M-Below Method Detection Limit T-Time Changed
 Rel.RT-Relative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

*** End of Report ***

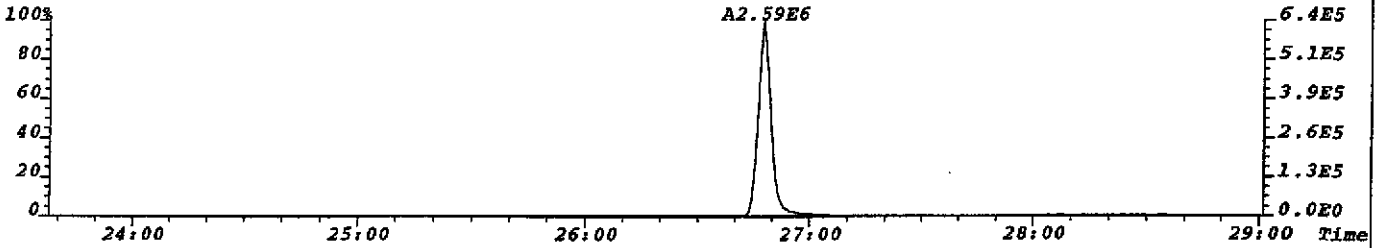
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:89
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,356.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



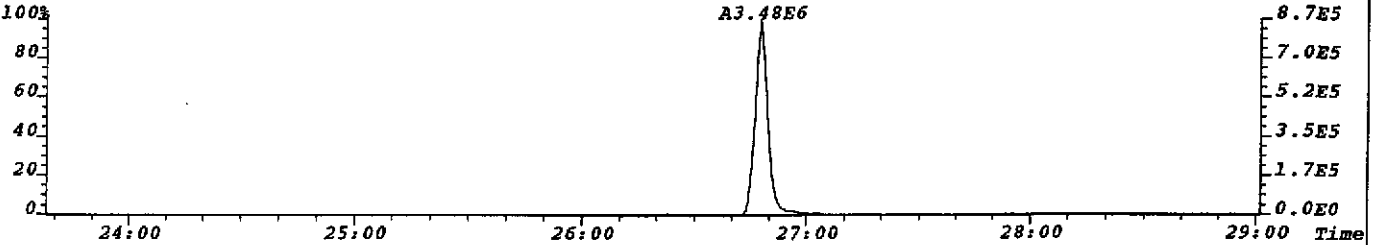
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:82
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



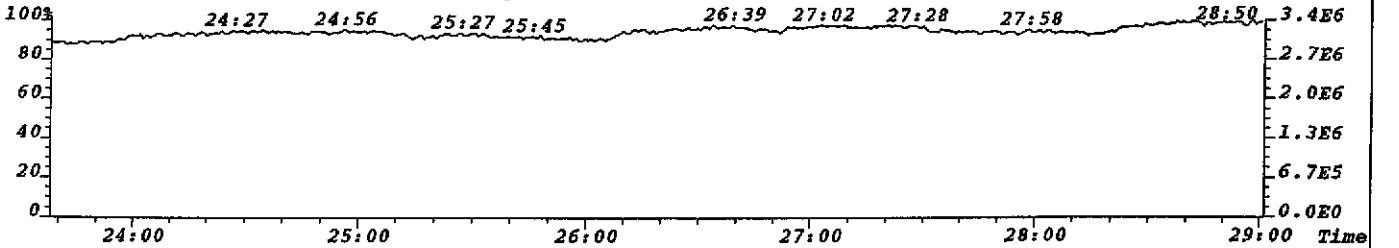
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:82
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



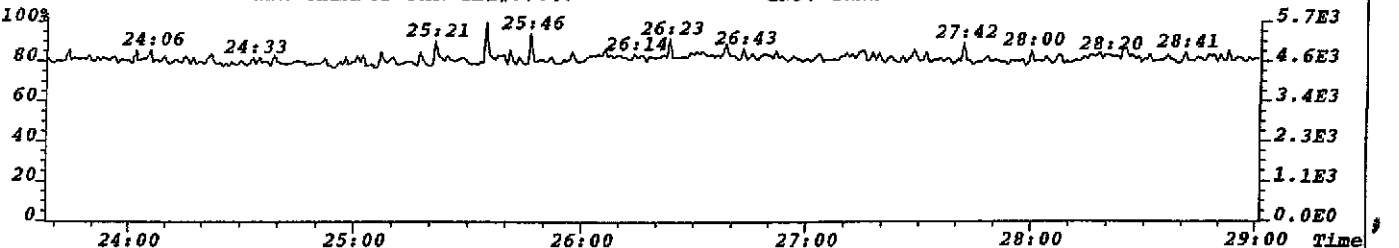
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:104
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,416.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29

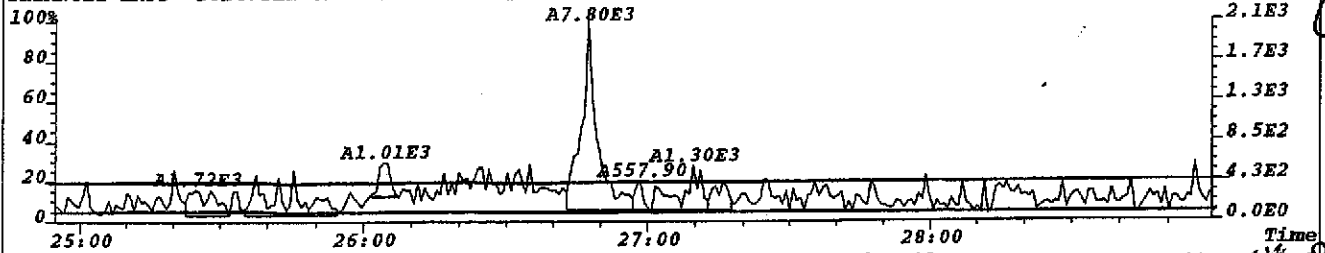


File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



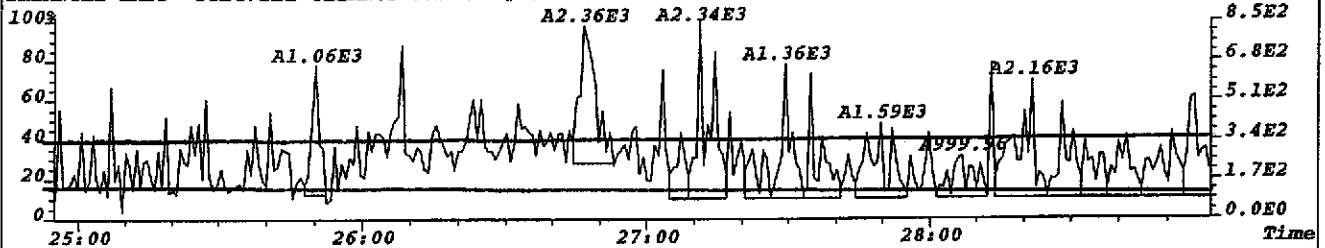
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:86
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,344.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29

C-15X-2H-315
2/1/04

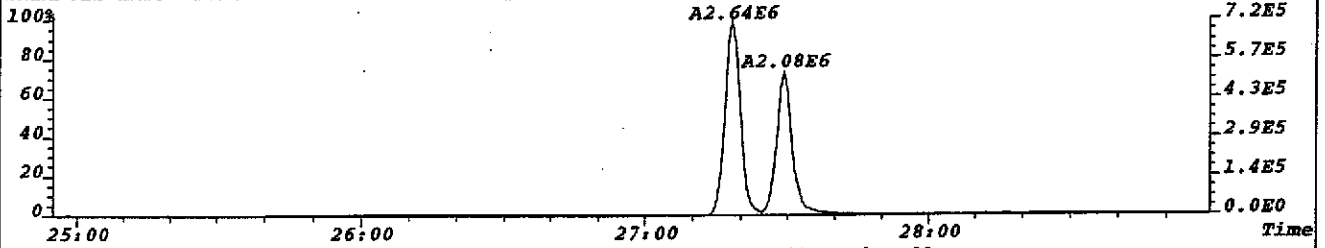


File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:82
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29

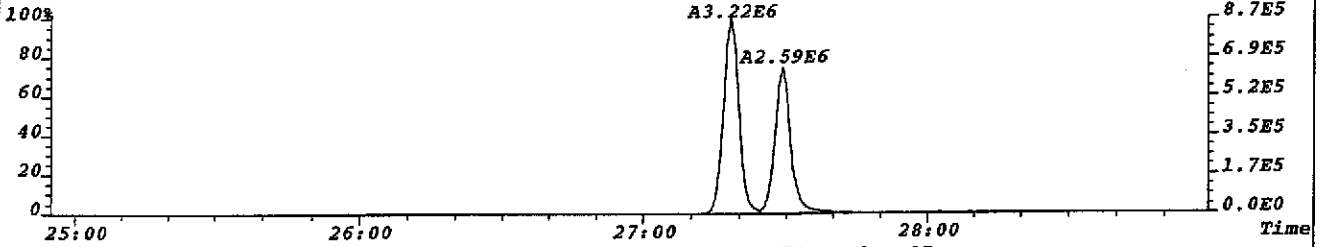
(.25)(.28) 125



File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:215
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,360.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



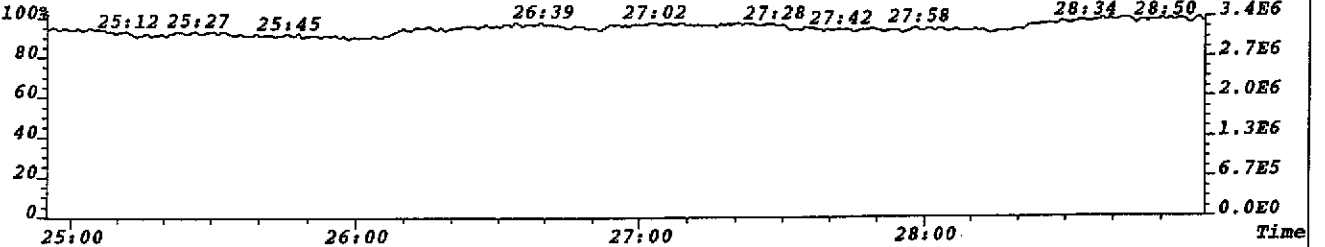
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:91
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



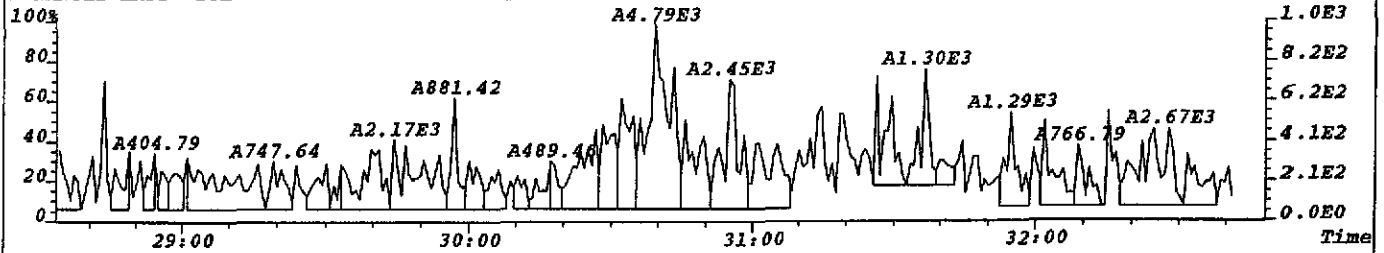
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:97
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,348.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



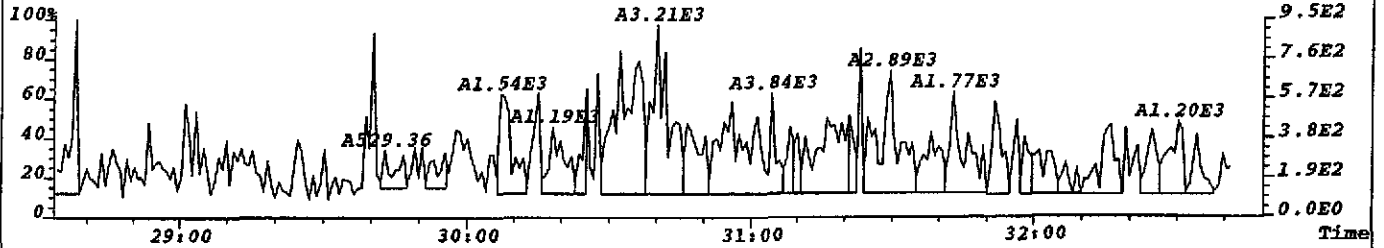
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



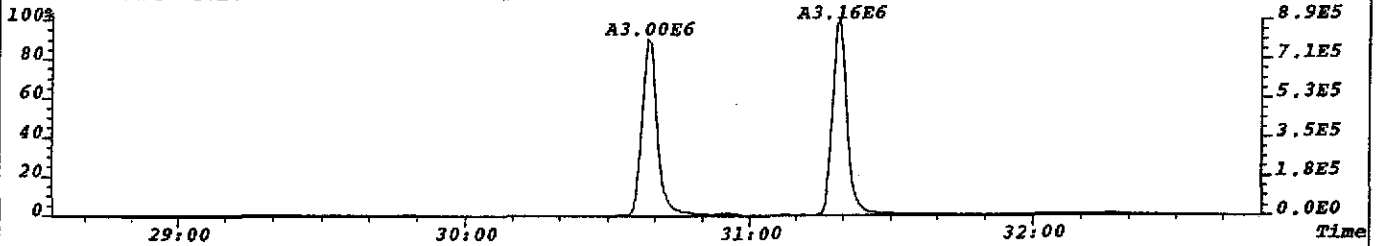
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:77
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



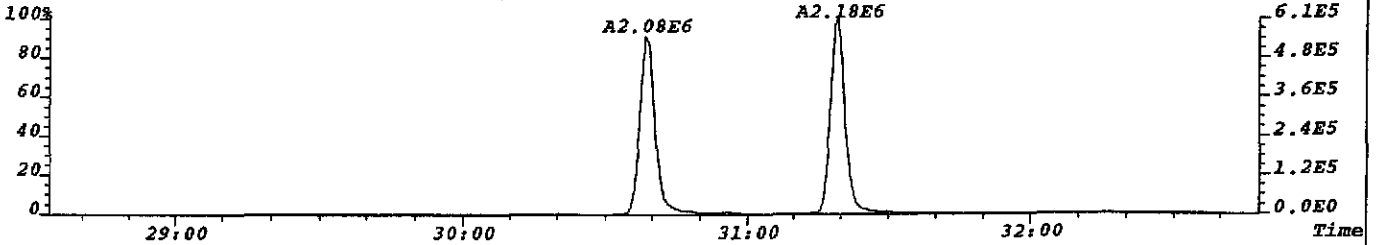
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:89
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,356.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



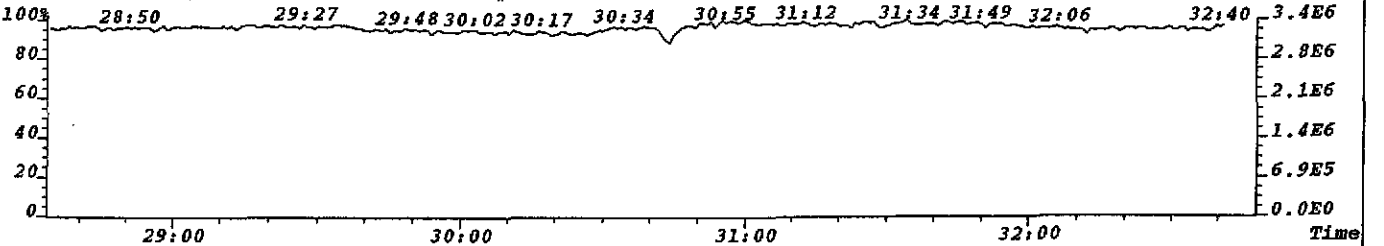
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:64
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



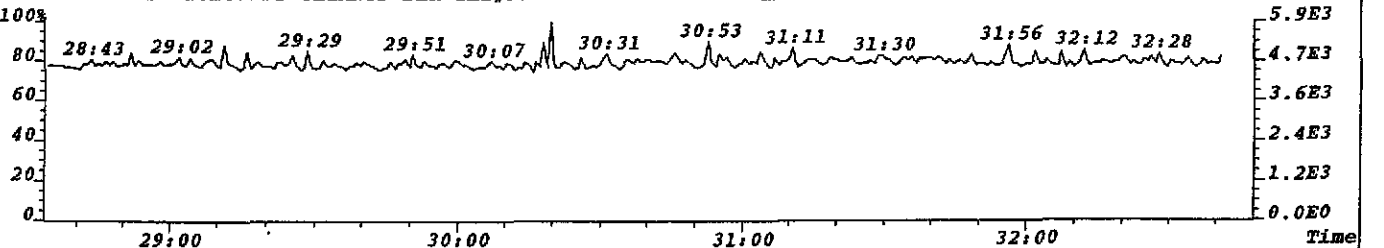
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:85
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,340.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



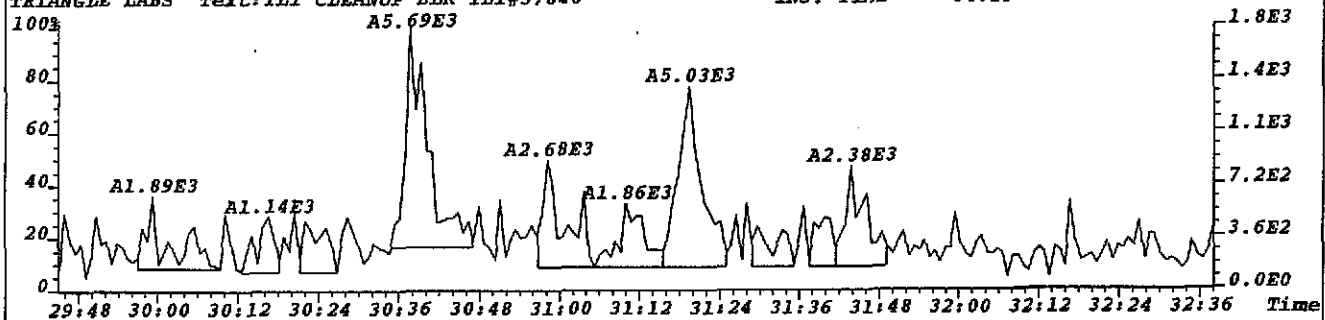
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



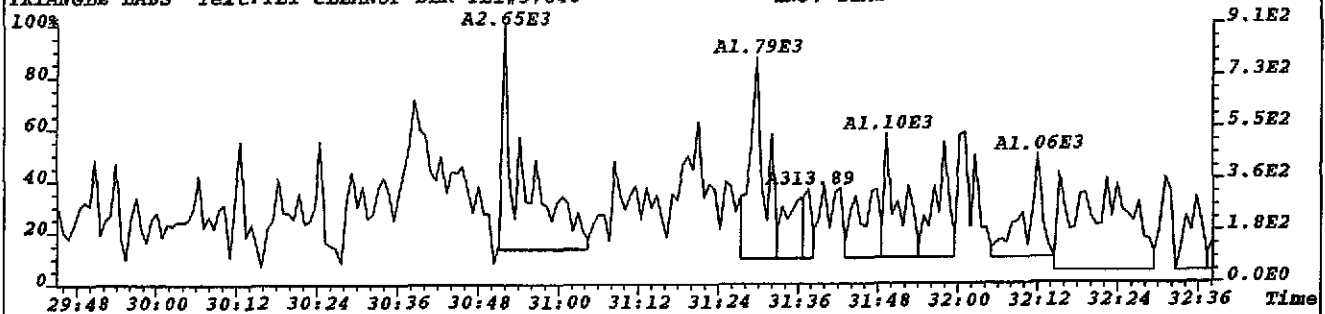
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



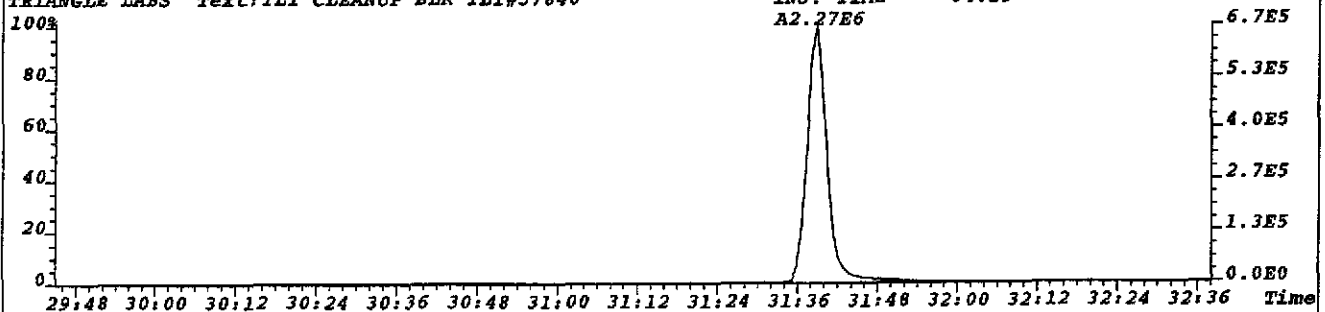
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:85
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,340.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



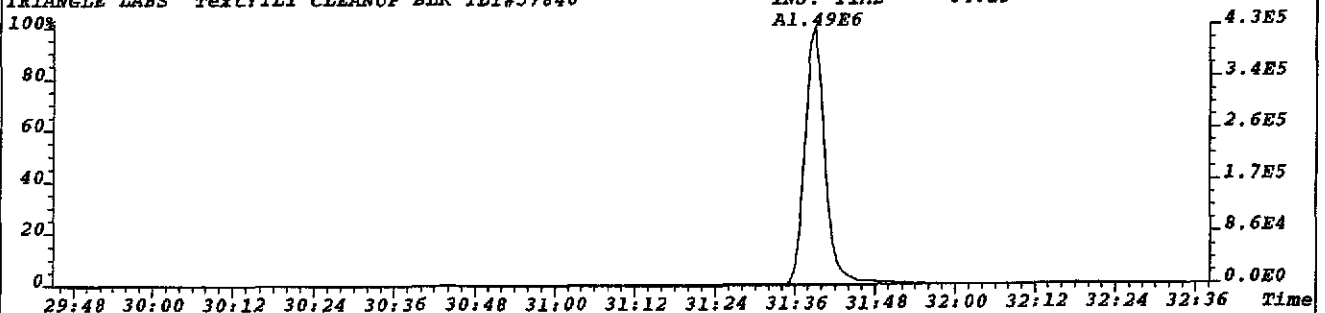
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:77
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



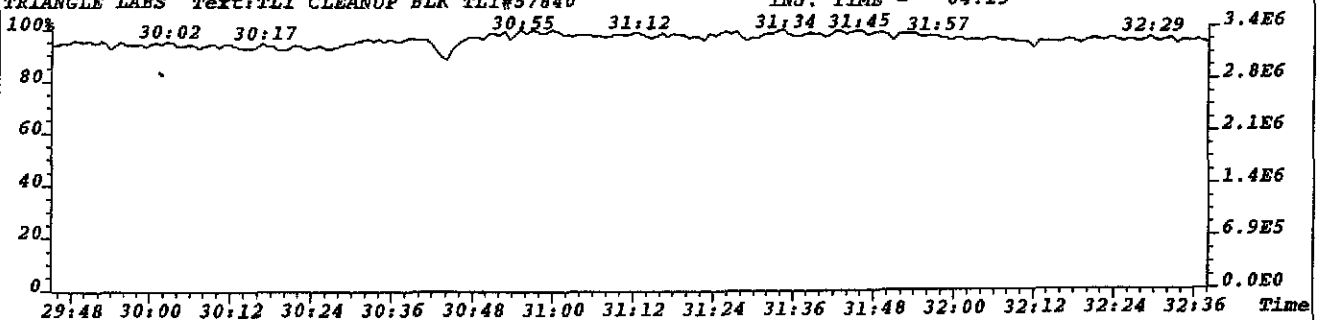
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:78
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,312.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



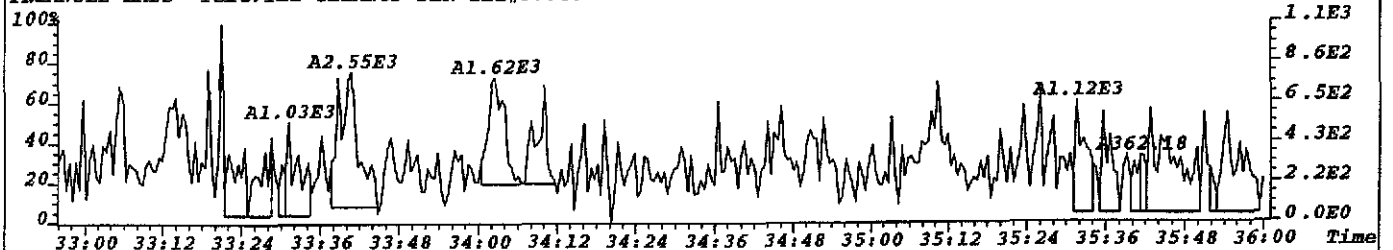
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:67
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



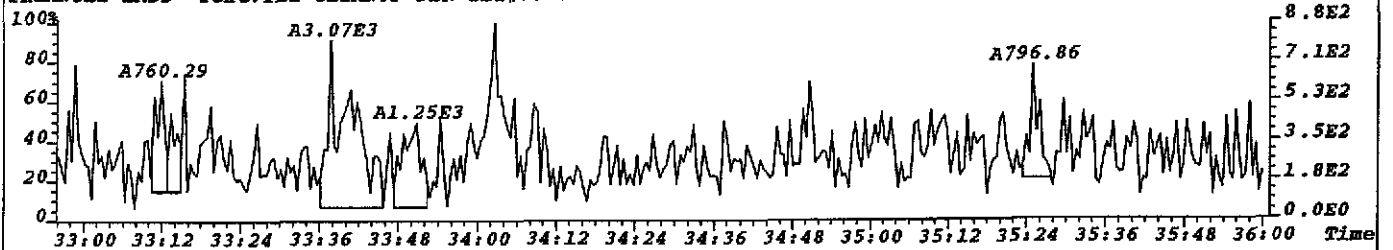
File:T023584 #1-925 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



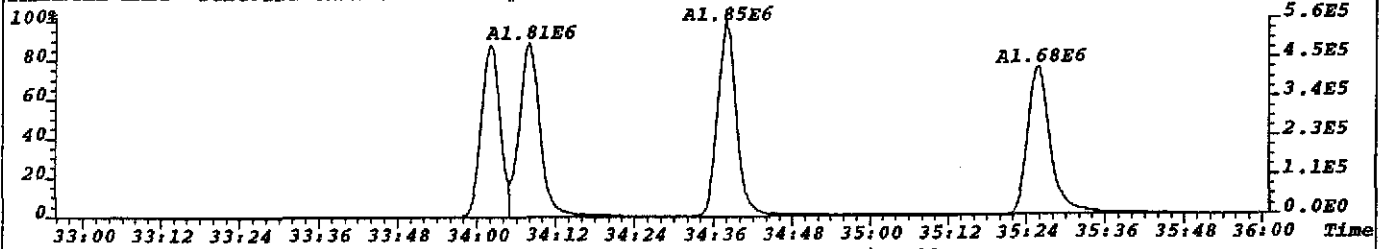
File:T023584 #1-386 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:97
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



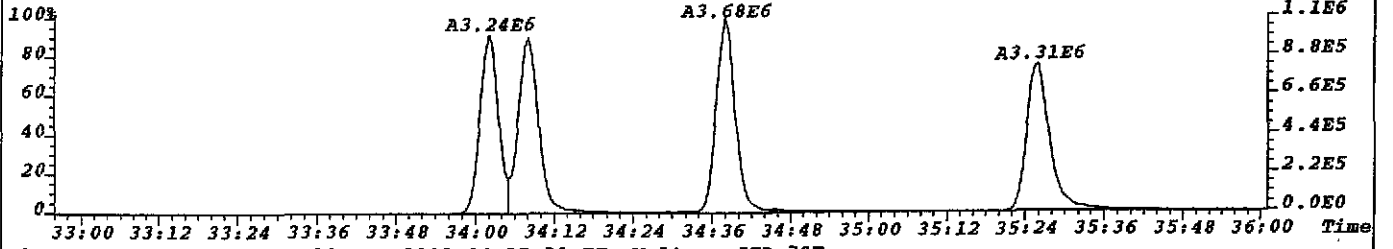
File:T023584 #1-386 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:85
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,340.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



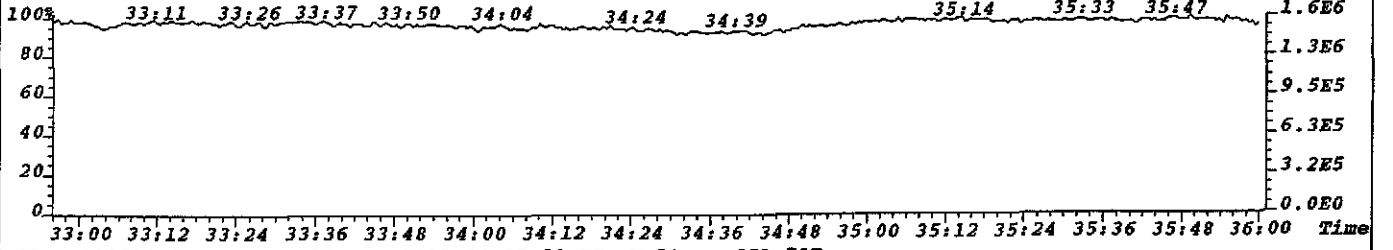
File:T023584 #1-386 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:166
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,664.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



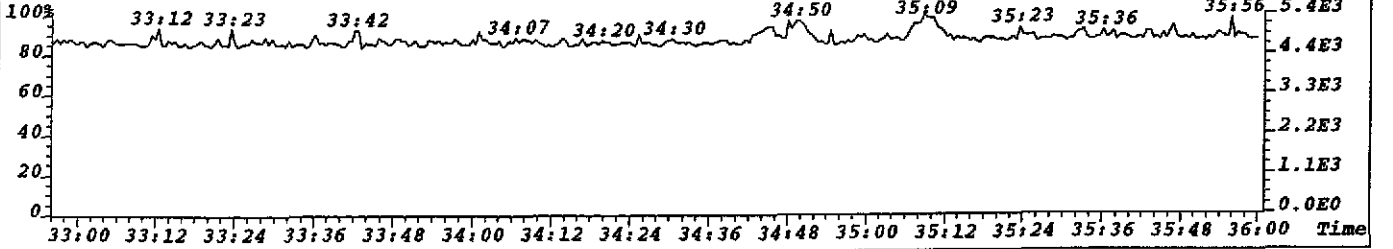
File:T023584 #1-386 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:82
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



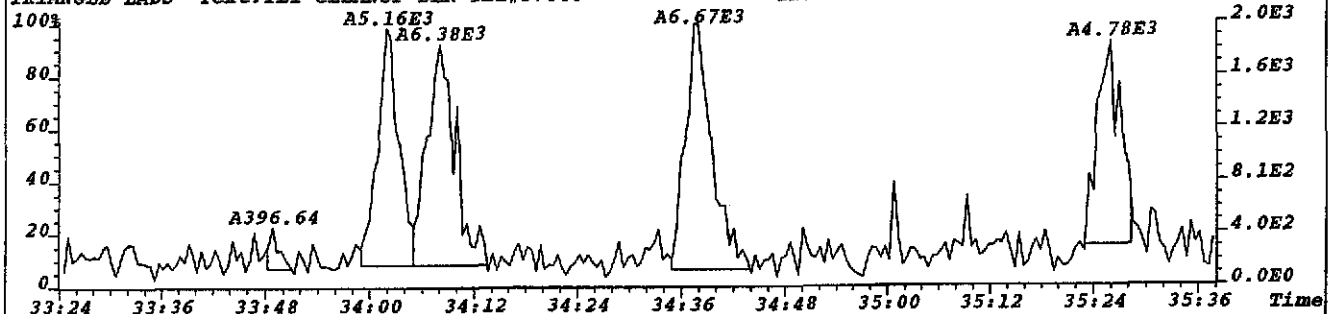
File:T023584 #1-386 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



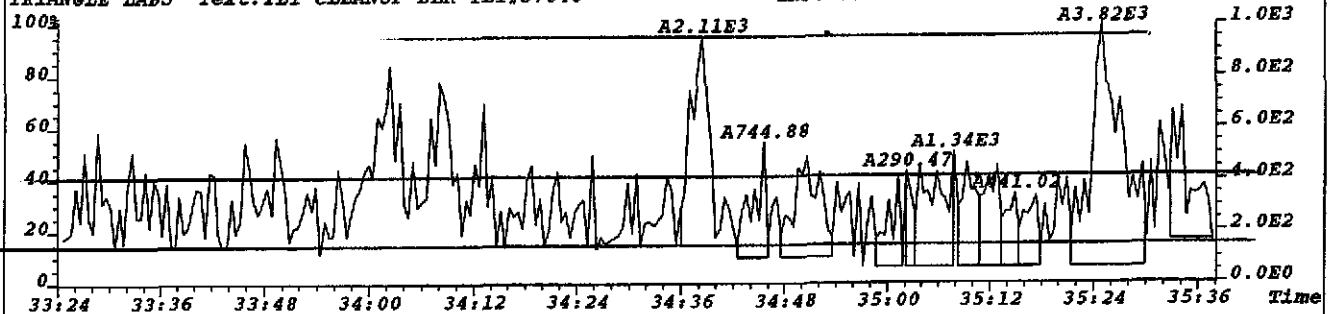
File:T023584 #1-386 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



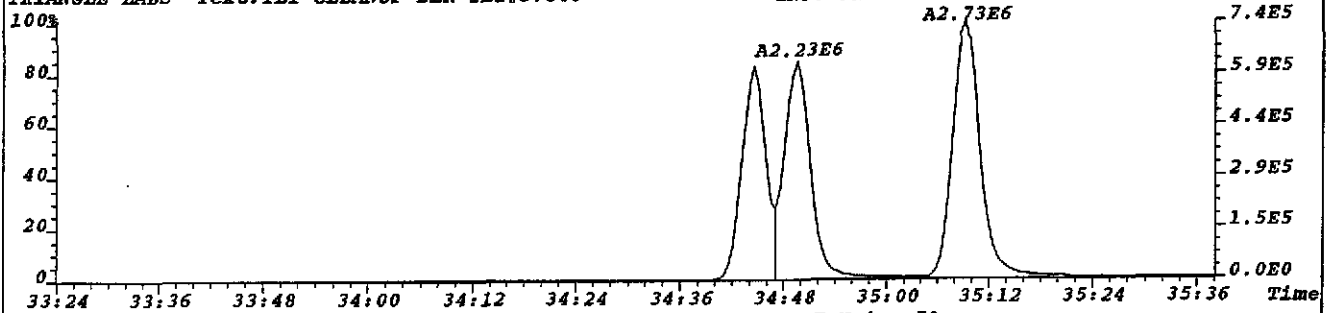
File:T023584 #1-386 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:76
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,304.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



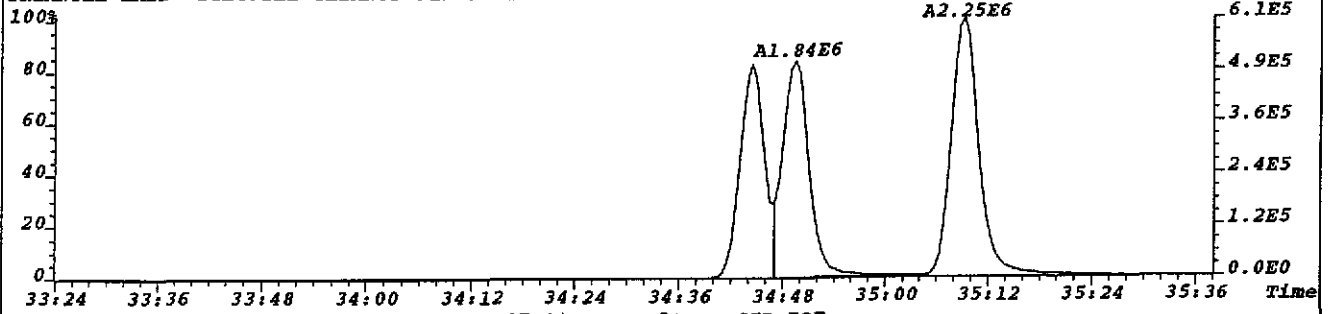
File:T023584 #1-386 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:96
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,384.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



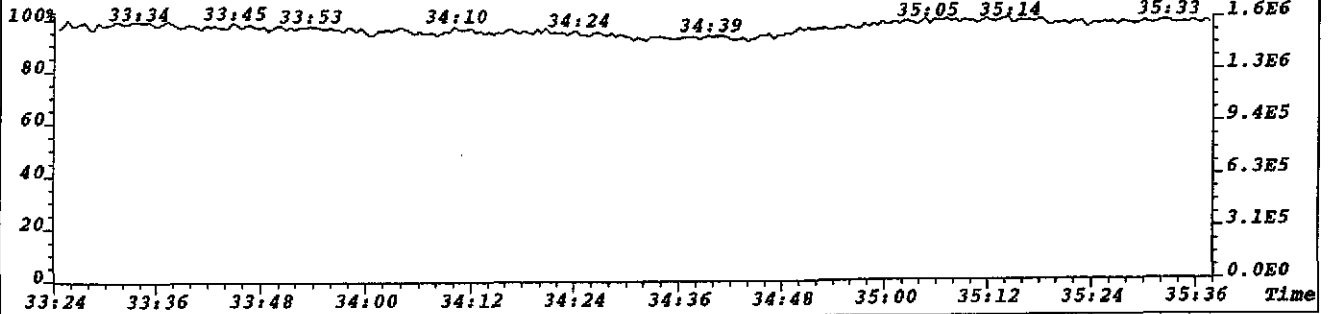
File:T023584 #1-386 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:104
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,416.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



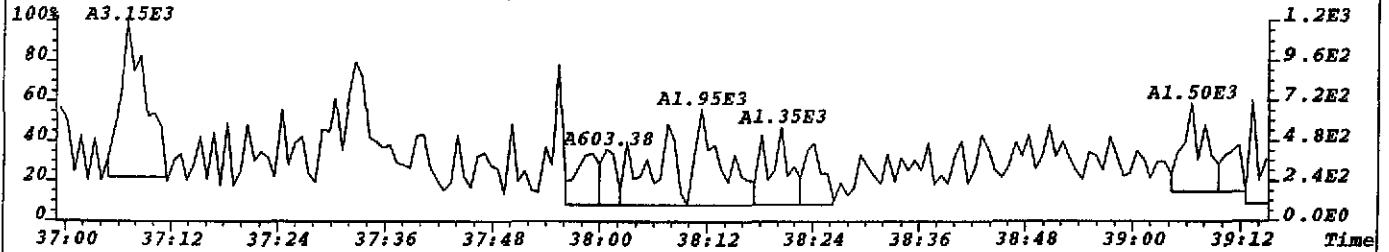
File:T023584 #1-386 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:79
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



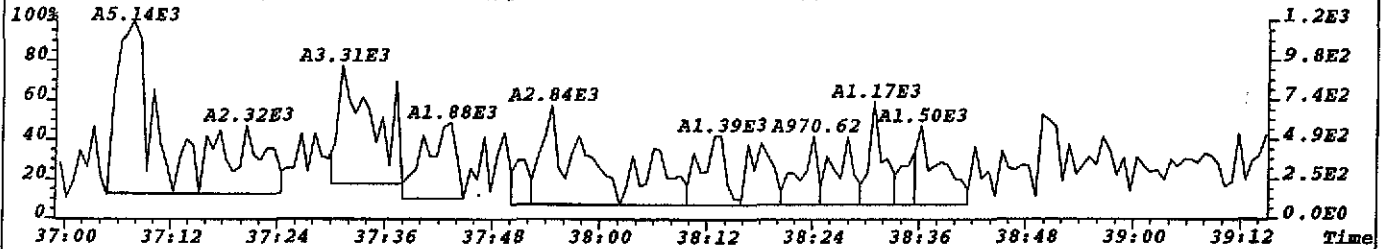
File:T023584 #1-386 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



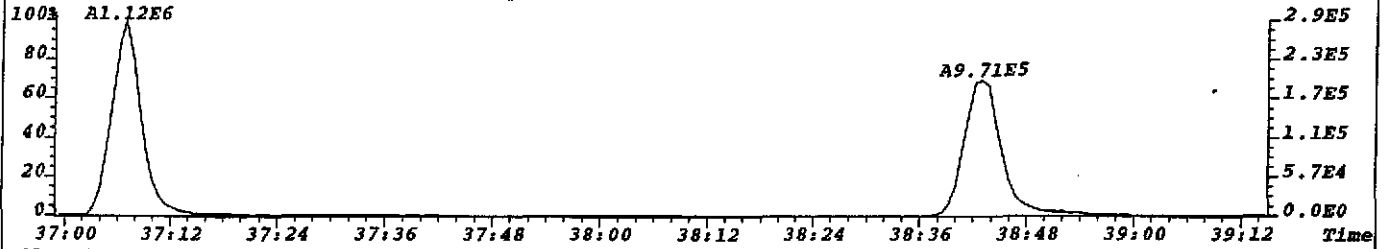
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:111
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,444.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



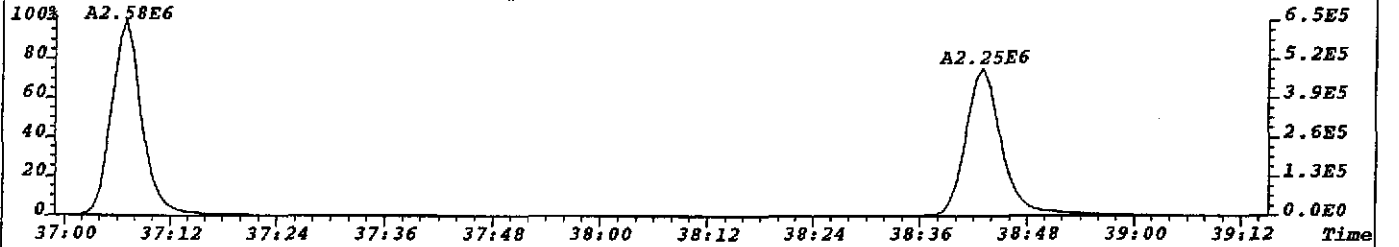
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:107
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,428.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



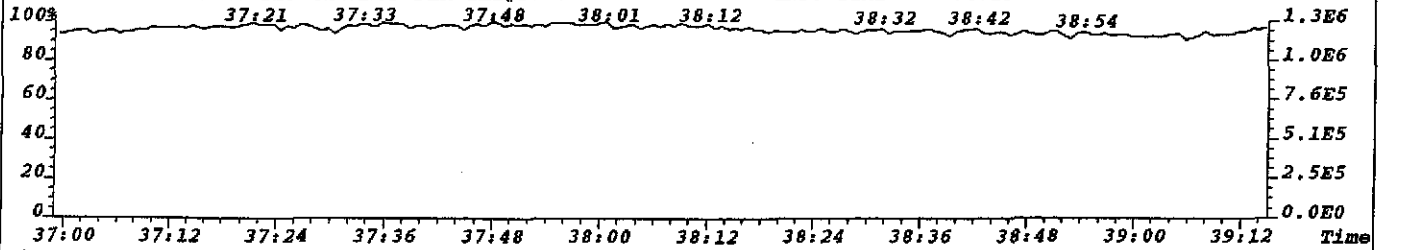
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:105
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,432.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



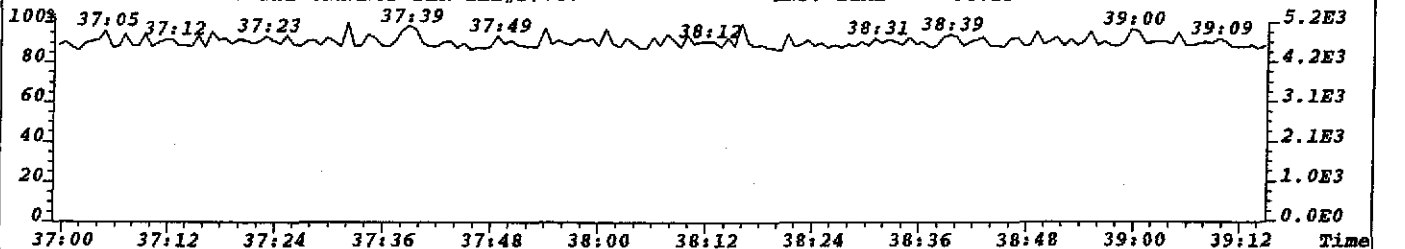
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:108
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,432.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



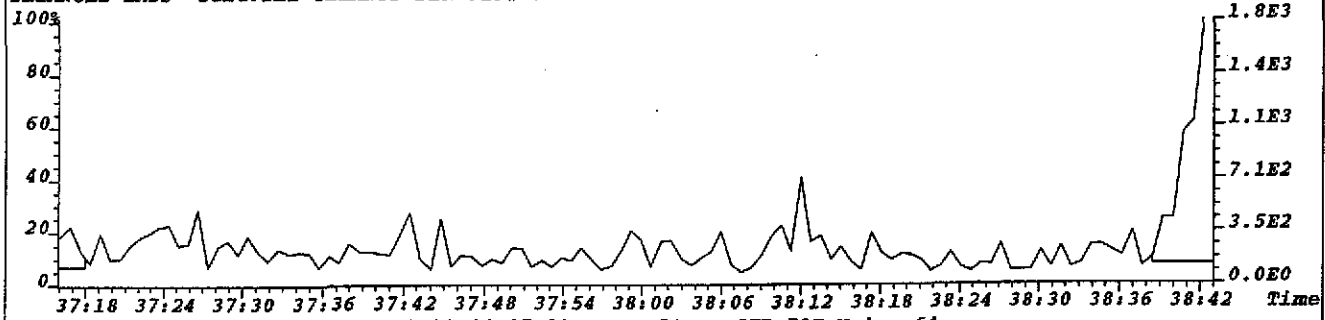
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



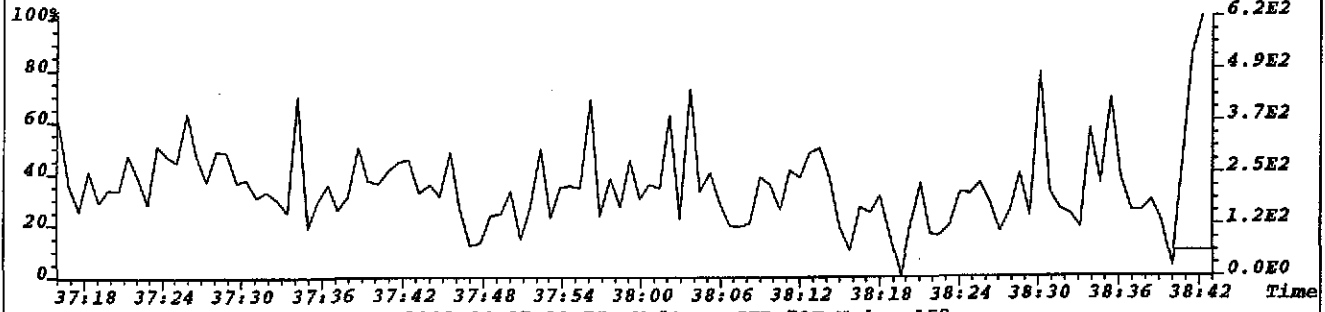
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



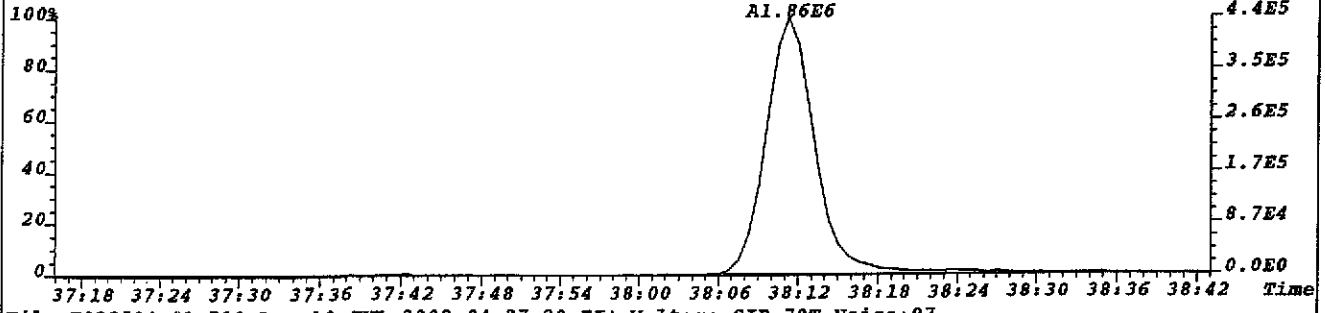
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:67
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



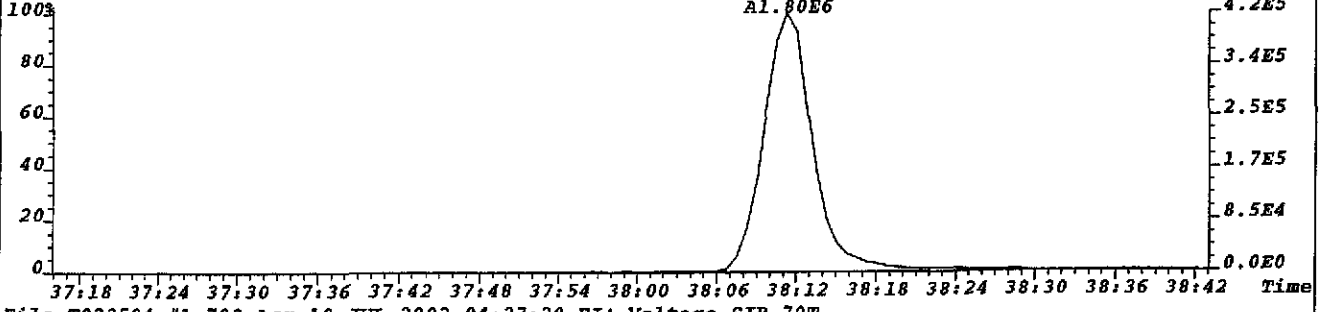
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:64
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



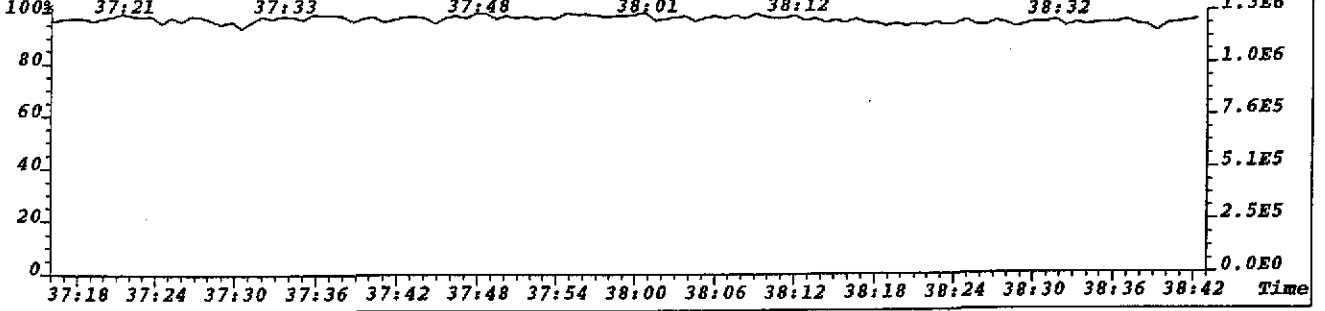
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:159
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,636.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



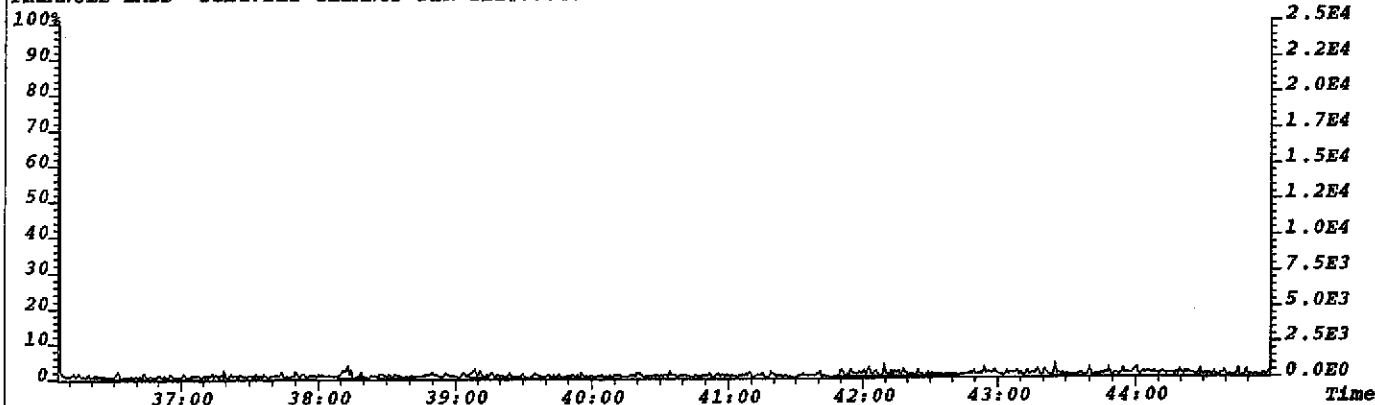
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:97
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



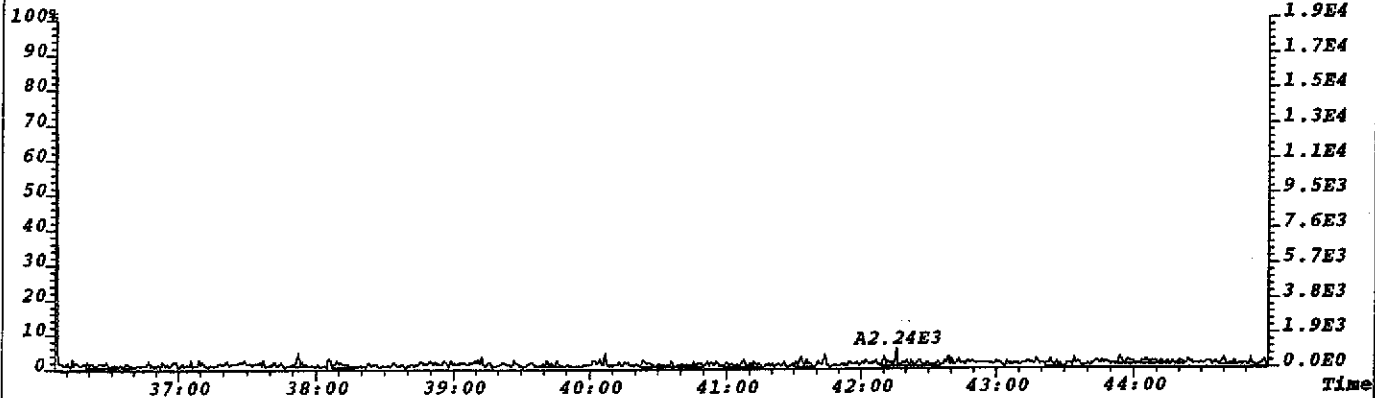
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



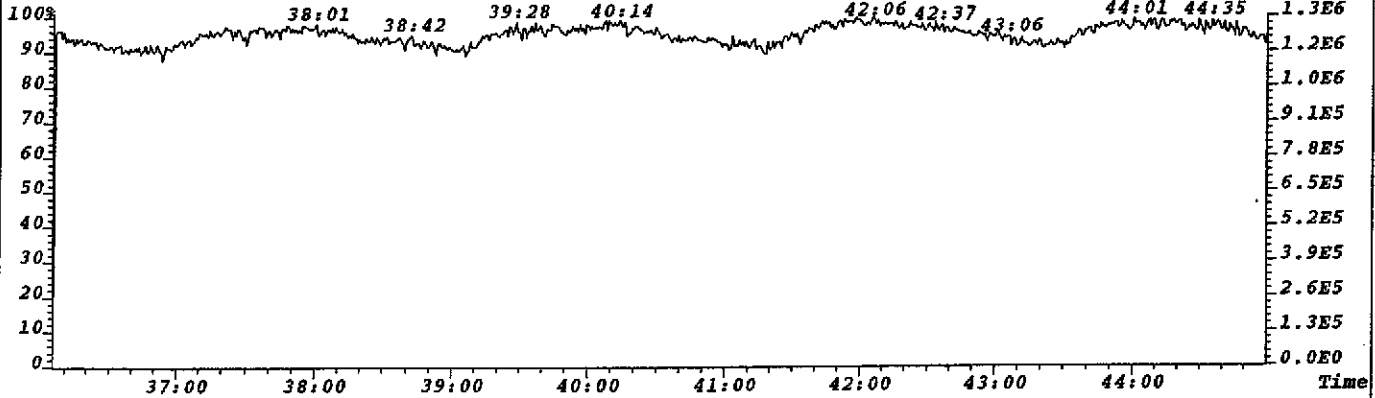
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:69
441.7428 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,276.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



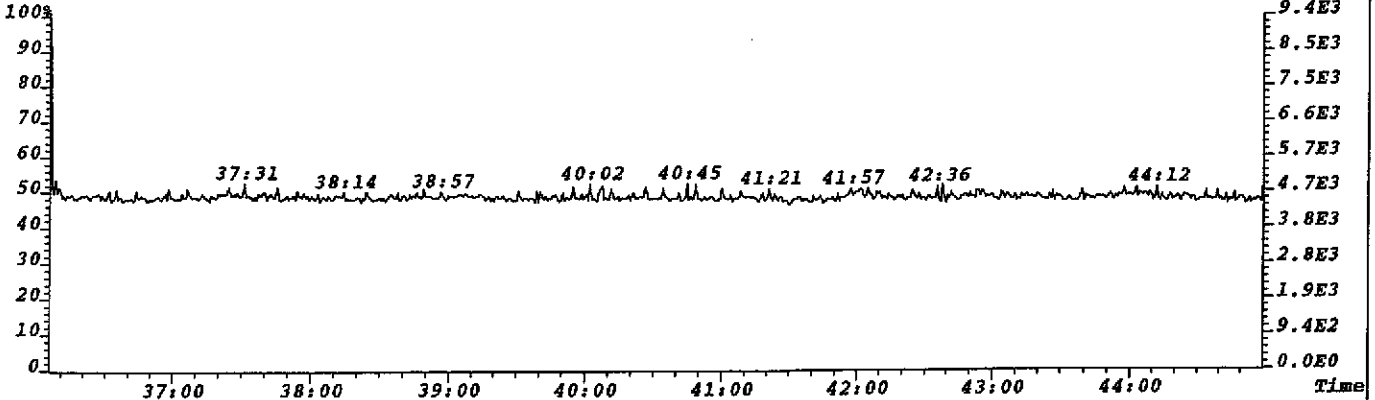
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:76
443.7399 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,304.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



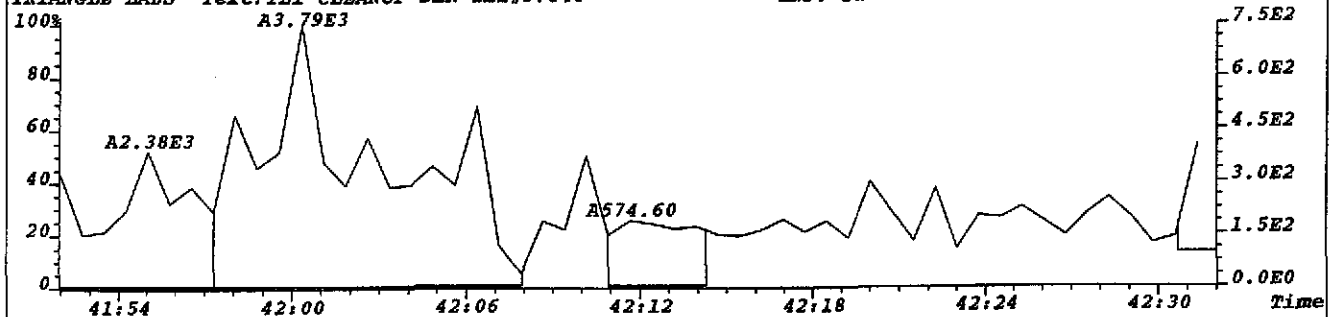
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



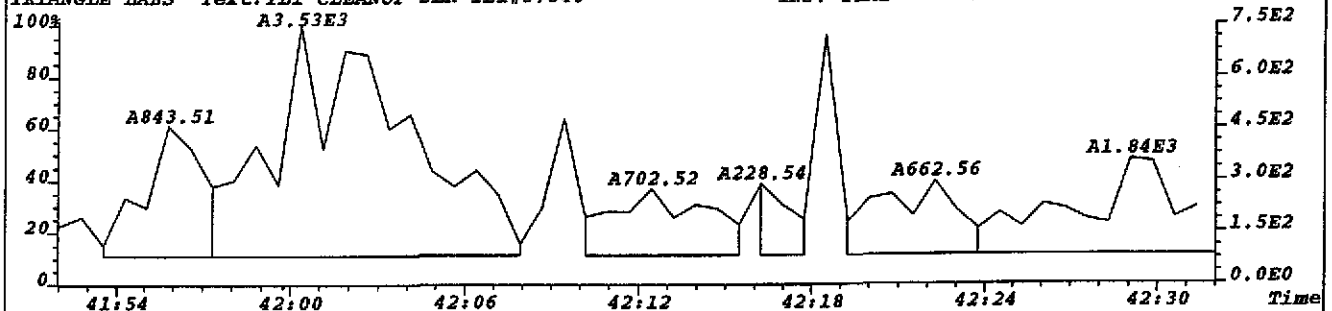
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



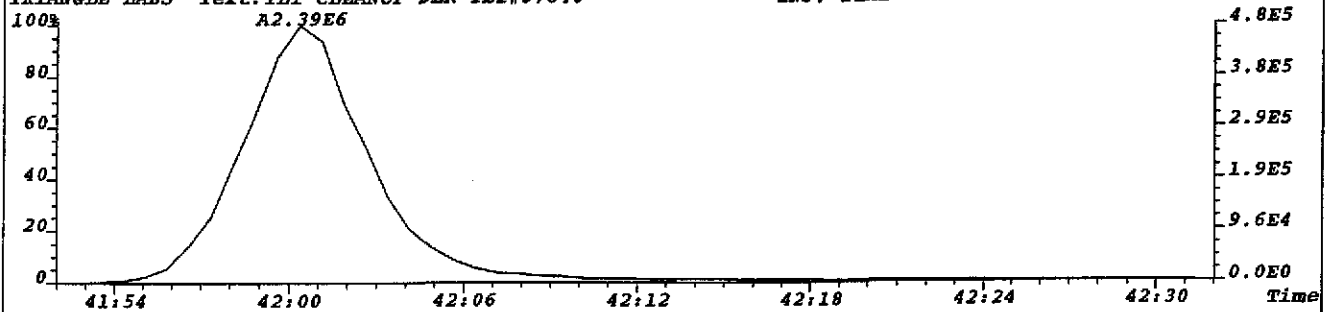
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:58
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,232.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



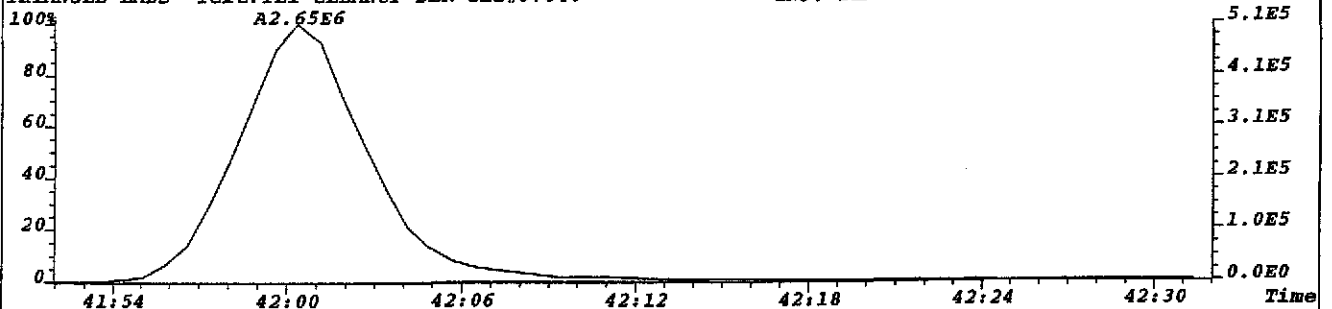
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:66
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,264.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



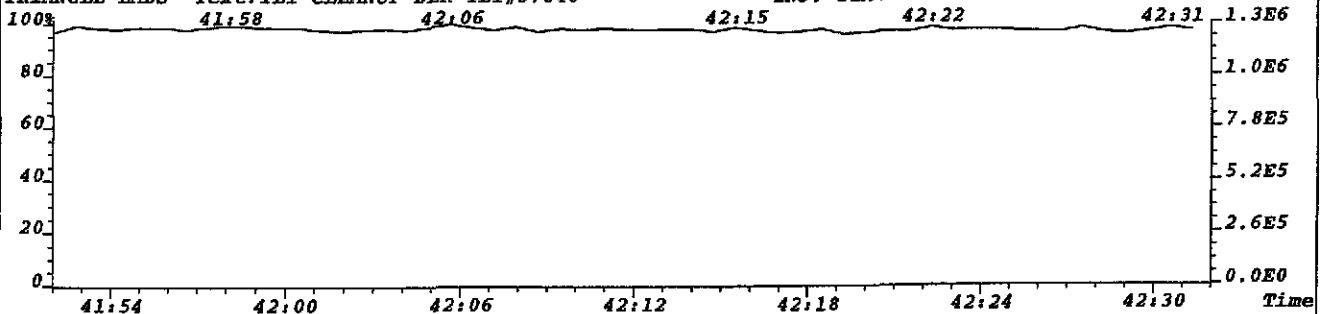
File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:76
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,304.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29



File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T Noise:66
471.7750 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 CLEANUP BLK TLI#57840 INJ. TIME = 04:29



File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI CLEANUP BLK TLI#57840 INJ. TIME = 04:29





Channel 1 330.9792 Peak top
 Height .66 volts Span 200 ppm

System file name N065US
 Data file name A:T717024
 Resolution 10000
 Group number 2
 Ionization mode EI+
 Switching VOLTAGE

n 330 J 331 S 368



U 316 N 340 V 410
 E 318 N 342
 F 320 O 352
 G 322 P 354
 H 328 Q 356
 I 331 R 358

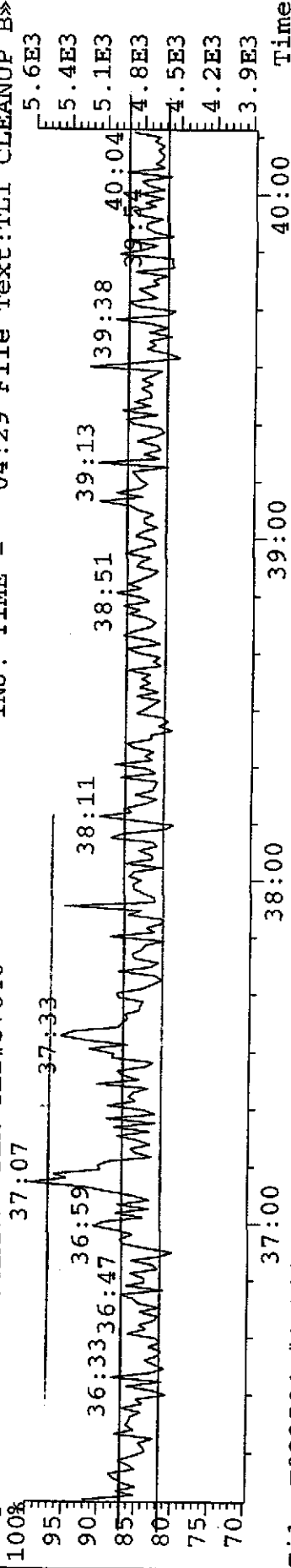
Ref. mass 416.9760 Peak top
 Height .11 volts Span 200 ppm

File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T

407.7818 F:4 Exp:NDB5US

Sample Text:TLI CLEANUP BLK TLI#57840

INJ. TIME = 04:29 File Text:TLI CLEANUP B»

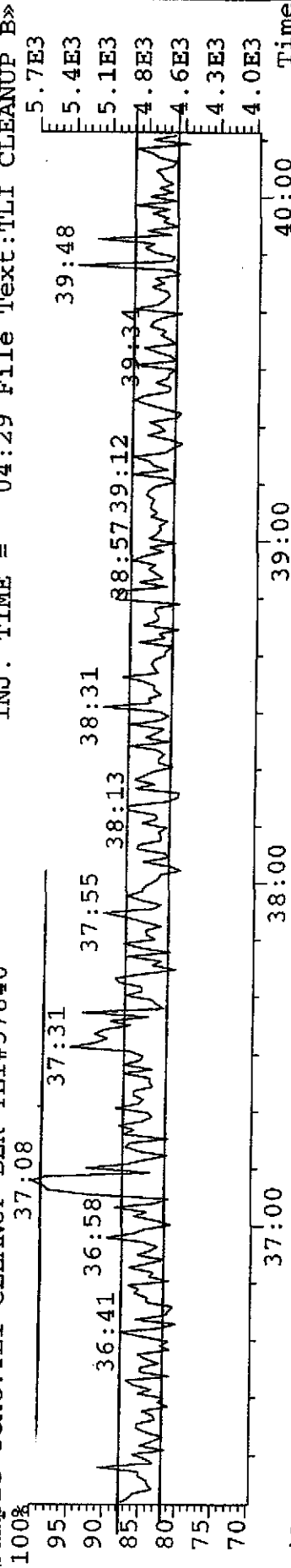


File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T

409.7789 F:4 Exp:NDB5US

Sample Text:TLI CLEANUP BLK TLI#57840

INJ. TIME = 04:29 File Text:TLI CLEANUP B»

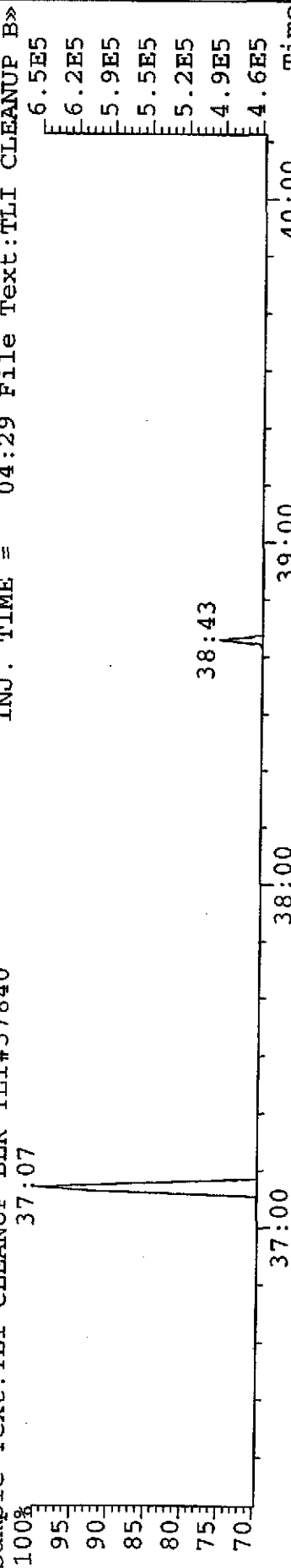


File:T023584 #1-708 Acq:18-JUL-2002 04:27:20 EI+ Voltage SIR 70T

419.8220 F:4 Exp:NDB5US

Sample Text:TLI CLEANUP BLK TLI#57840

INJ. TIME = 04:29 File Text:TLI CLEANUP B»



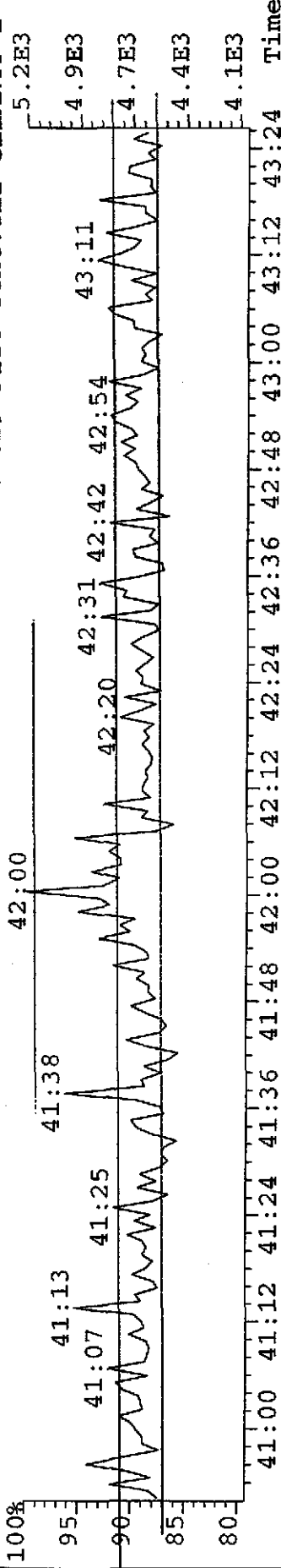
Handwritten signature

File: T023584 #1-708 Acq: 18-JUL-2002 04:27:20 EI+ Voltage SIR 70T

457.7377 F: 4 Exp: NDB5US

Sample Text: TLI CLEANUP BLK TLI#57840

INJ. TIME = 04:29 File Text: TLI CLEANUP B>

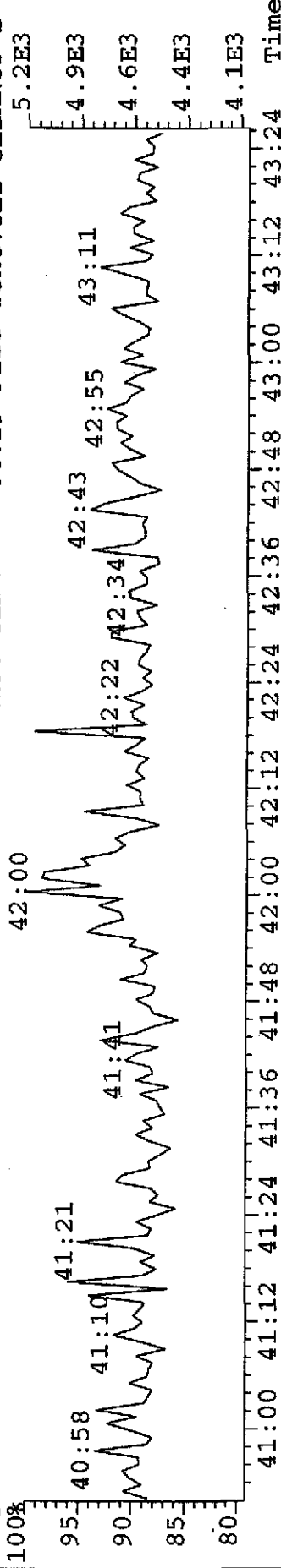


File: T023584 #1-708 Acq: 18-JUL-2002 04:27:20 EI+ Voltage SIR 70T

459.7348 F: 4 Exp: NDB5US

Sample Text: TLI CLEANUP BLK TLI#57840

INJ. TIME = 04:29 File Text: TLI CLEANUP B>

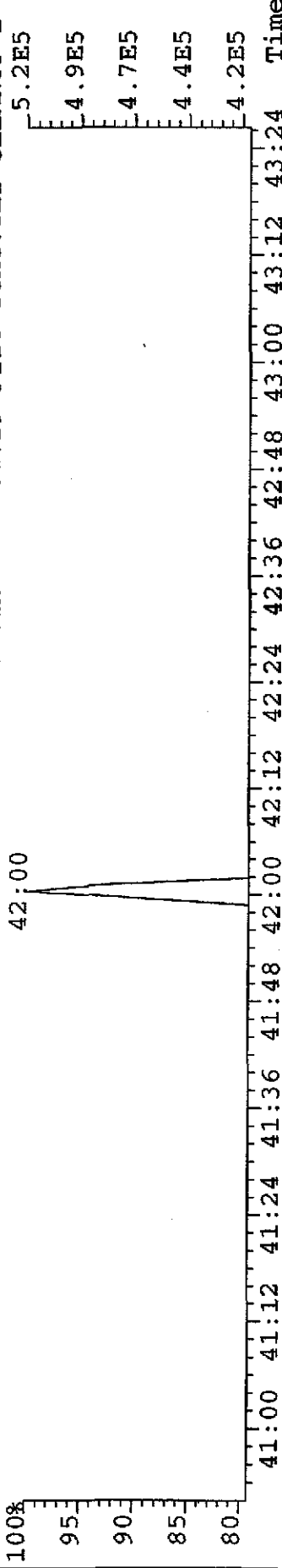


File: T023584 #1-708 Acq: 18-JUL-2002 04:27:20 EI+ Voltage SIR 70T

471.7750 F: 4 Exp: NDB5US

Sample Text: TLI CLEANUP BLK TLI#57840

INJ. TIME = 04:29 File Text: TLI CLEANUP B>



Handwritten signature or initials.

CALIBRATION
DATA

TRIANGLE LABORATORIES, INC.
Initial Calibration Summary for WF5614B

Date: 06/14/2002

Analysis Date.....: 06/14/2002
Instrument.....: W

Method.....: 161B
GC Column....: DB-5
GC Column ID: 1467344

Analytes	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
Total TriCDF	0.000	0.000	100%		15:55	22:55			0
1368-TCDF	1.144	0.050	4%	21:32	20:55	27:55	0.751		6
2378-TCDF	1.144	0.050	4%	24:56			0.751		6
TOTAL TCDF	1.144	0.050	4%				0.751		6
1368-TCDD	1.103	0.029	3%	23:00	21:40	28:40	0.764		6
1379-TCDD	1.103	0.029	3%	23:25			0.774		6
2378-TCDD	1.103	0.029	3%	25:41			0.794		6
TOTAL TCDD	1.103	0.029	3%				0.779		6
12378-PeCDF	1.215	0.019	2%	29:02	25:02	33:02	1.522		6
23478-PeCDF	1.188	0.023	2%	29:46			1.519		6
TOTAL PeCDF	1.202	0.019	2%				1.521		6
12378-PeCDD	1.266	0.021	2%	30:07	26:06	34:06	1.587		6
TOTAL PeCDD	1.266	0.021	2%				1.587		6
123478-HxCDF	1.242	0.035	3%	32:36	30:36	36:36	1.265		6
123678-HxCDF	1.292	0.032	2%	32:42			1.257		6
234678-HxCDF	1.204	0.027	2%	33:11			1.270		6
123789-HxCDF	1.264	0.036	3%	33:55			1.262		6
TOTAL HxCDF	1.250	0.030	2%				1.263		6
123478-HxCDD	1.164	0.025	2%	33:18	29:18	37:18	1.241		6
123678-HxCDD	1.092	0.040	4%	33:23			1.235		6
123789-HxCDD	1.158	0.055	5%	33:41			1.228		6
TOTAL HxCDD	1.138	0.029	3%				1.234		6
1234678-HpCDF	1.492	0.039	3%	35:30	33:30	38:30	1.052		6
1234789-HpCDF	1.488	0.048	3%	36:57			1.044		6
TOTAL HpCDF	1.490	0.041	3%				1.048		6
1234678-HpCDD	1.009	0.030	3%	36:30	34:29	39:29	1.036		6
TOTAL HpCDD	1.009	0.030	3%				1.036		6
OCDF	1.326	0.074	6%	40:04	37:53	41:53	0.891		6
OCDD	1.051	0.028	3%	39:53	37:53	41:53	0.843		6
Other Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
37Cl-TCDD	1.207	0.069	6%	25:41	23:40	27:40			6
Internal Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-2378-TCDF	1.447	0.095	7%	24:55	22:55	27:55	0.753		6
13C12-2378-TCDD	1.184	0.076	6%	25:40	23:40	27:40	0.803		6
13C12-PeCDF 123	1.181	0.175	15%	29:02	27:02	37:02	1.516		6
13C12-PeCDF 234	1.183	0.160	14%	29:45			1.500		6
13C12-PeCDD 123	0.707	0.106	15%	30:06	26:06	36:06	1.532		6
13C12-HxCDF 478	1.314	0.111	8%	32:36	28:36	36:36	0.514		6
13C12-HxCDF 678	1.348	0.109	8%	32:41			0.517		6
13C12-HxCDF 234	1.274	0.039	3%	33:11			0.517		6
13C12-HxCDF 789	1.107	0.028	3%	33:54			0.514		6
13C12-HxCDD 478	0.910	0.044	5%	33:18	32:18	34:18	1.228		6
13C12-HxCDD 678	0.975	0.032	3%	33:22			1.205		6

Initial Calibration Summary for WF5614B

13C12-HpCDF 678	0.966	0.043	4%	35:30	33:30	44:30	0.445		6
13C12-HpCDF 789	0.764	0.045	6%	36:57			0.435		6
13C12-HpCDD 678	0.796	0.043	5%	36:29	34:29	42:29	1.026		6
13C12-OCDD	0.638	0.055	9%	39:53	39:53	51:53	0.860		6
Recovery Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-1234-TCDD	1.000	0.000	0%	25:29			0.806		6
13C12-HxCDD 789	1.000	0.000	0%	33:40			1.212		6

*** End of Report ***

TRIANGLE LABORATORIES, INC.
Initial Calibration Summary for PF56152

Date: 06/15/2002

Analysis Date.....: 06/15/2002
Instrument.....: P

Method.....: C2NF
GC Column...: DB-225

Analytes	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
2378-TCDF	1.120	0.033	3%	22:41	15:41	26:41	0.778		6
TOTAL TCDF	1.120	0.033	3%				0.778		6
2378-TCDD	1.131	0.028	2%	21:18	17:17	25:17	0.780		6
TOTAL TCDD	1.131	0.028	2%				0.780		6
Other Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
37Cl-TCDD	1.037	0.029	3%	21:18	19:17	23:17			6
Internal Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-2378-TCDF	1.519	0.052	3%	22:41	21:41	23:41	0.802		6
13C12-2378-TCDD	1.075	0.057	5%	21:17	19:17	23:17	0.788		6
Recovery Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-1234-TCDD	1.000	0.000	0%	21:33			0.813		6

*** End of Report ***

TRIANGLE LABORATORIES, INC.
Initial Calibration Summary for TF5612B

Date: 06/12/2002

Analysis Date....: 06/12/2002
Instrument.....: T

Method.....: 161B
GC Column...: DB-5
GC Column ID: 2213722

Analytes	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
Total TriCDF	0.000	0.000	100%		17:51	24:51			0
1368-TCDF	1.027	0.023	2%	23:50	22:51	29:51	0.771		6
2378-TCDF	1.027	0.023	2%	26:52			0.800		6
TOTAL TCDF	1.027	0.023	2%				0.784		6
1368-TCDD	1.063	0.059	6%	25:06	23:32	30:32	0.770		6
1379-TCDD	1.063	0.059	6%	25:29			0.755		6
2378-TCDD	1.063	0.059	6%	27:33			0.776		6
TOTAL TCDD	1.063	0.059	6%				0.767		6
12378-PeCDF	1.134	0.022	2%	30:41	26:41	34:41	1.474		6
23478-PeCDF	1.104	0.038	3%	31:22			1.476		6
TOTAL PeCDF	1.119	0.027	2%				1.475		6
12378-PeCDD	1.039	0.034	3%	31:41	27:41	35:41	1.514		6
TOTAL PeCDD	1.039	0.034	3%				1.514		6
123478-HxCDF	1.125	0.028	2%	34:04	32:03	38:03	1.238		6
123678-HxCDF	1.149	0.028	2%	34:10			1.224		6
234678-HxCDF	1.089	0.028	3%	34:40			1.230		6
123789-HxCDF	1.140	0.025	2%	35:28			1.219		6
TOTAL HxCDF	1.126	0.022	2%				1.228		6
123478-HxCDD	1.078	0.026	2%	34:47	30:46	38:46	1.231		6
123678-HxCDD	1.039	0.051	5%	34:52			1.186		6
123789-HxCDD	1.117	0.015	1%	35:11			1.231		6
TOTAL HxCDD	1.078	0.021	2%				1.215		6
1234678-HpCDF	1.346	0.028	2%	37:09	35:08	40:08	1.025		6
1234789-HpCDF	1.335	0.020	1%	38:45			1.016		6
TOTAL HpCDF	1.340	0.024	2%				1.021		6
1234678-HpCDD	0.934	0.029	3%	38:13	36:12	41:12	1.005		6
TOTAL HpCDD	0.934	0.029	3%				1.005		6
OCDF	1.217	0.035	3%	42:15	40:01	44:01	0.888		6
OCDD	1.014	0.040	4%	42:02	40:01	44:01	0.813		6
Other Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
37C1-TCDD	1.105	0.047	4%	27:33	25:32	29:32			6
Internal Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-2378-TCDF	1.311	0.072	5%	26:51	24:51	29:51	0.721		6
13C12-2378-TCDD	1.129	0.056	5%	27:32	25:32	29:32	0.787		6
13C12-PeCDF 123	1.162	0.075	6%	30:41	28:41	38:41	1.501		6
13C12-PeCDF 234	1.185	0.107	9%	31:21			1.491		6
13C12-PeCDD 123	0.831	0.066	8%	31:41	27:41	37:41	1.465		6
13C12-HxCDF 478	1.185	0.035	3%	34:03	30:03	38:03	0.495		6
13C12-HxCDF 678	1.200	0.035	3%	34:09			0.496		6
13C12-HxCDF 234	1.173	0.043	4%	34:39			0.500		6
13C12-HxCDF 789	0.984	0.027	3%	35:27			0.498		6
13C12-HxCDD 478	0.877	0.022	3%	34:46	33:46	35:46	1.212		6
13C12-HxCDD 678	0.959	0.044	5%	34:51			1.182		6

Initial Calibration Summary for TF5612B

13C12-HpCDF 678	0.833	0.011	1%	37:08	35:08	46:08	0.417		6
13C12-HpCDF 789	0.670	0.039	6%	38:44			0.414		6
13C12-HpCDD 678	0.789	0.018	2%	38:12	36:12	44:12	1.015		6
13C12-OCDD	0.742	0.064	9%	42:01	42:01	54:01	0.864		6
Recovery Standards	RF	SD	%RSD	RT	RT/LO	RT/HI	Ratio1	Ratio2	N
13C12-1234-TCDD	1.000	0.000	0%	27:22			0.799		6
13C12-HxCDD 789	1.000	0.000	0%	35:10			1.193		6

*** End of Report ***

VER WB21081

Analysis Date.....: 07/17/2002
 Operator.....: JLD
 Init Calibration.: WP5614B
 ICal Date.....: 06/14/2002

Method.....: 161B
 Instrument...: W
 Std.Conc....: 10.00
 GC Column...: DB-5
 GC Column ID:2194146

Analyte Summary

Name	Ratio	RT	RT	Rel. RT	ICal RF	Conc	Conc Range
	1&2	Lo/Hi					
Total TriCDF		17:30 24:30			0.000		
1368-TCDF	0.746	23:15 28:21	23:26	0.8842	1.144		
2378-TCDF	0.744		26:31	1.0008	1.144	8.70	8.60 - 11.60
TOTAL TCDF	0.743				1.144		
1368-TCDD	0.764	24:33 28:19	24:44	0.9099	1.103		
1379-TCDD	0.751		25:07	0.9242	1.103		
2378-TCDD	0.759		27:12	1.0007	1.103	8.87	8.20 - 12.30
TOTAL TCDD	0.758				1.103		
12378-PeCDF	1.514	28:14 32:10	30:23	1.0003	1.215	44.09	41.00 - 60.00
23478-PeCDF	1.498		31:04	1.0006	1.188	43.93	41.00 - 61.00
TOTAL PeCDF	1.506				1.202		
12378-PeCDD	1.530	29:27 32:01	31:24	1.0010	1.266	40.72	39.00 - 65.00
TOTAL PeCDD	1.530				1.266		
123478-HxCDF	1.301	32:41 35:25	33:49	1.0006	1.242	48.47	45.00 - 56.00
123678-HxCDF	1.258		33:54	1.0000	1.292	49.13	44.00 - 57.00
234678-HxCDF	1.255		34:24	1.0006	1.204	48.17	44.00 - 57.00
123789-HxCDF	1.277		35:11	1.0003	1.264	48.85	45.00 - 56.00
TOTAL HxCDF	1.272				1.250		
123478-HxCDD	1.184	33:10 35:02	34:31	1.0006	1.164	44.90	39.00 - 64.00
123678-HxCDD	1.224		34:36	1.0006	1.092	46.10	39.00 - 64.00
123789-HxCDD	1.207		34:55	1.0098	1.158	46.56	41.00 - 61.00
TOTAL HxCDD	1.205				1.138		

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1234678-HpCDF	1.071	36:41 38:35	36:51	1.0000	1.492	50.75	45.00 - 55.00
1234789-HpCDF	1.074		38:25	1.0000	1.488	49.63	43.00 - 58.00
TOTAL HpCDF	1.072				1.490		
1234678-HpCDD	1.037	36:58 38:05	37:55	1.0005	1.009	47.39	43.00 - 58.00
TOTAL HpCDD	1.037				1.009		
OCDF	0.896	39:36 43:36	41:50	1.0055	1.326	92.49	63.00 -159.00
OCDD	0.830	39:36 43:36	41:38	1.0007	1.051	97.26	79.00 -126.00

Other Standard Summary

Name	Ratio	RT	RT	Rel.	RT	ICal	Conc	Conc	Range
	1&2	Lo/Hi				RF			
37Cl-TCDD		25:11 29:11	27:12	1.0007		1.207	8.87	8.30	- 12.10

Internal Standard Summary

Name	Ratio	RT	RT	Rel.	RT	ICal	Conc	Conc	Range
	1&2	Lo/Hi				RF			
13C12-2378-TCDF	0.735	25:01 30:01	26:30	0.9808		1.447	83.31	76.00	-131.00
13C12-2378-TCDD	0.798	25:01 29:01	27:11	1.0059		1.184	94.37	85.00	-117.00
13C12-PeCDF 123	1.441	25:01 35:01	30:22	1.1240		1.181	101.69	76.00	-130.00
13C12-PeCDF 234	1.459		31:03	1.1491		1.183	99.42	77.00	-130.00
13C12-PeCDD 123	1.454	23:01 33:01	31:22	1.1610		0.707	122.06	62.00	-160.00
13C12-HxCDF 478	0.507	30:54 38:54	33:48	0.9685		1.314	85.27	76.00	-131.00
13C12-HxCDF 678	0.506		33:54	0.9713		1.348	82.39	70.00	-143.00
13C12-HxCDF 234	0.507		34:23	0.9851		1.274	86.51	73.00	-137.00
13C12-HxCDF 789	0.501		35:10	1.0077		1.107	88.11	74.00	-135.00
13C12-HxCDD 478	1.263	33:54 35:54	34:30	0.9885		0.910	98.34	85.00	-117.00
13C12-HxCDD 678	1.159		34:35	0.9908		0.975	95.49	85.00	-118.00
13C12-HpCDF 678	0.438	32:54 43:54	36:51	1.0559		0.966	97.74	78.00	-129.00
13C12-HpCDF 789	0.431		38:25	1.1009		0.764	104.48	77.00	-129.00
13C12-HpCDD 678	0.999	32:54 40:54	37:54	1.0860		0.796	107.13	72.00	-138.00

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13C12-OCDD 0.865 41:26 41:36 1.1920 0.638 252.89 96.00 -415.00
41:46

Recovery Standard Summary

Name	Ratio 1&2	RT		Rel. RT	ICal		Conc	Conc	Range
		LO/Hi	RT		RF	RF			
13C12-1234-TCDD	0.822	25:01	27:01	0.9941	1.000				
13C12-HxCDD 789	1.179	33:54	34:54	1.0116	1.000				
		29:01							
		35:54							

Compound/
M_Z... ..RT. OK Ratio Total.Area... Area.Peak.1.. Area.Peak.2.. Rel.RT Compound.Name.. ID..

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	23:26			0.75	1,758.62	751.61	1,007.01	0.884	1368-TCDF	AN
	26:31			0.74	1,555.52	663.51	892.01	1.001	2378-TCDF	AN
304-306				2 Peaks						
13C12-TCDF				0.65-0.89						
316-318	26:30			0.74	15,623.77	6,619.81	9,003.96	0.981	13C12-2378-TCDF	ISO
316-318				1 Peak						

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

Compound	M_Z	RT	OK	Ratio	Total.Area	Area.Peak.1	Area.Peak.2	Rel.RT	Compound.Name	ID
TCDD				0.65-0.89						
320-322	24:44			0.76	1,396.57	605.08	791.49	0.910	1368-TCDD	AN
	25:07			0.75	1,230.15	527.68	702.47	0.924	1379-TCDD	AN
	27:12			0.76	1,416.32	610.99	805.33	1.001	2378-TCDD	AN
320				3 Peaks						
37C1-TCDD										
328	27:12				1,387.94	1,387.94		1.001	37C1-TCDD	CLS
328-330				1 Peak						
13C12-TCDD				0.65-0.89						
332-334	27:01			0.82	12,960.52	5,845.48	7,115.04	0.994	13C12-1234-TCDD	RS1
	27:11			0.80	14,480.80	6,428.36	8,052.44	1.006	13C12-2378-TCDD	IS1
332-334				2 Peaks						

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

Compound	M_Z	RT	OK	Ratio	Total.Area	Area.Peak.1	Area.Peak.2	Rel.RT	Compound.Name	ID
PeCDF				1.32-1.78						
340-342	30:23			1.51	8,337.49	5,020.87	3,316.62	1.000	12378-PeCDF	AN
	31:04			1.50	7,956.08	4,771.07	3,185.01	1.001	23478-PeCDF	AN
340-342				2 Peaks						
13C12-PeCDF				1.32-1.78						
352-354	30:22			1.44	15,564.40	9,186.98	6,377.42	1.124	13C12-PeCDF 123	IS2
	31:03			1.46	15,244.04	9,045.00	6,199.04	1.149	13C12-PeCDF 234	IS3
352-354				2 Peaks						

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

Compound	M_Z	RT	OK	Ratio	Total.Area	Area.Peak.1	Area.Peak.2	Rel.RT	Compound.Name	ID
PeCDD				1.32-1.78						
356-358	31:24			1.53	5,765.40	3,486.93	2,278.47	1.001	12378-PeCDD	AN
356-358				1 Peak						
13C12-PeCDD				1.32-1.78						
368-370	31:22			1.45	11,184.08	6,626.80	4,557.28	1.161	13C12-PeCDD 123	IS4
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	33:49			1.30	5,252.87	2,969.62	2,283.25	1.001	123478-HxCDF	AN

Compound/

M_Z.... ..RT. OK Ratio Total.Area... Area.Peak.1.. Area.Peak.2.. Rel.RT Compound.Name.. ID..

33:54 1.26 5,490.90 3,059.03 2,431.87 1.000 123678-HxCDF AN
34:24 1.26 4,978.14 2,770.78 2,207.36 1.001 234678-HxCDF AN
35:11 1.28 4,691.02 2,630.71 2,060.31 1.000 123789-HxCDF AN
374-376 4 Peaks

13C12-HxCDF 0.43-0.59
384-386 33:48 0.51 8,726.50 2,936.14 5,790.36 0.969 13C12-HxCDF 478 IS5
33:54 0.51 8,650.04 2,907.64 5,742.40 0.971 13C12-HxCDF 678 IS6
34:23 0.51 8,583.73 2,887.23 5,696.50 0.985 13C12-HxCDF 234 IS7
35:10 0.50 7,596.57 2,536.16 5,060.41 1.008 13C12-HxCDF 789 IS8
384-386 4 Peaks

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

HxCDD 1.05-1.43
390-392 34:31 1.18 3,642.48 1,974.41 1,668.07 1.001 123478-HxCDD AN
34:36 1.22 3,650.71 2,009.49 1,641.22 1.001 123678-HxCDD AN
34:55 1.21 3,834.17 2,096.56 1,737.61 1.010 123789-HxCDD AN
390-392 3 Peaks

13C12-HxCDD 1.05-1.43
402-404 34:30 1.26 6,970.16 3,890.76 3,079.40 0.989 13C12-HxCDD 478 IS9
34:35 1.16 7,251.49 3,892.91 3,358.58 0.991 13C12-HxCDD 678 IS10
34:54 1.18 7,788.48 4,213.83 3,574.65 1.012 13C12-HxCDD 789 RS2
402-404 3 Peaks

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

HpCDF 0.88-1.20
408-410 36:51 1.07 5,568.53 2,879.81 2,688.72 1.000 1234678-HpCDF AN
38:25 1.07 4,590.93 2,377.01 2,213.92 1.000 1234789-HpCDF AN
408-410 2 Peaks

13C12-HpCDF 0.37-0.51
418-420 36:51 0.44 7,353.59 2,241.50 5,112.09 1.056 13C12-HpCDF 678 IS11
38:25 0.43 6,216.96 1,872.42 4,344.54 1.101 13C12-HpCDF 789 IS12
418-420 2 Peaks

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

HpCDD 0.88-1.20
424-426 37:55 1.04 3,175.51 1,616.52 1,558.99 1.001 1234678-HpCDD AN
424-426 1 Peak

13C12-HpCDD 0.88-1.20
436-438 37:54 1.00 6,641.69 3,318.49 3,323.20 1.086 13C12-HpCDD 678 IS13
436-438 1 Peak

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

OCDF 0.76-1.02
442-444 41:50 0.90 7,706.11 3,641.20 4,064.91 1.006 OCDF AN

Date: 07/19/2002

TRIANGLE LABORATORIES, INC.

Continuing Calibration for P022541

Analysis Date.....: 07/17/2002

Method.....: C2NF

Operator.....: JSY

Instrument...: P

Init Calibration.: PF56152

Std.Conc.....: 10.00

ICal Date.....: 06/15/2002

Analysis Time.....: 14:56

GC Column....: DB-225

Analyte Summary

Name	RF	Ratio 1&2	RT		Rel. RT	ICal		%D
			Lo/High	RT		RF	Delta RF	
2378-TCDF	0.964	0.84	18:44 26:05	23:37	1.0008	1.120	-0.156	-14.0%
TOTAL TCDF	0.964	0.84				1.120	-0.156	-14.0%
2378-TCDD	1.099	0.76	19:32 25:16	22:08	1.0005	1.131	-0.032	-2.8%
TOTAL TCDD	1.099	0.76				1.131	-0.032	-2.8%

Other Standard Summary

Name	RF	Ratio 1&2	RT		Rel. RT	ICal		%D
			Lo/High	RT		RF	Delta RF	
37C1-TCDD	0.969		20:07 24:07	22:08	1.0005	1.037	-0.068	-6.5%

Internal Standard Summary

Name	RF	Ratio 1&2	RT		Rel. RT	ICal		%D
			Lo/High	RT		RF	Delta RF	
13C12-2378-TCDF	1.512	0.76	22:36 24:36	23:36	1.0000	1.519	-0.007	-0.5%
13C12-2378-TCDD	1.084	0.78	20:07 24:07	22:07	1.0000	1.075	0.009	0.8%

Recovery Standard Summary

Name	RF	Ratio 1&2	RT		Rel. RT	ICal		%D
			Lo/High	RT		RF	Delta RF	
13C12-1234-TCDD	1.000	0.77		22:26	1.0140	1.000	0.000	0.0%

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 0.84 46.37 21.16 25.21 1.001 2378-TCDF AN
304-306 1 Peak
13C12-TCDF 0.65-0.89
316-318 23:36 0.76 481.22 207.24 273.98 1.000 13C12-2378-TCDF ISO
316-318 1 Peak

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

TCDD 0.65-0.89
320-322 22:08 0.76 37.91 16.39 21.52 1.001 2378-TCDD AN
320 1 Peak
37Cl-TCDD
328 22:08 33.44 33.44 1.001 37Cl-TCDD SUR1
328-330 1 Peak
13C12-TCDD 0.65-0.89
332-334 22:07 0.78 344.93 151.39 193.54 1.000 13C12-2378-TCDD IS1
22:26 0.77 318.25 138.69 179.56 1.014 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: 07/18/2002

TRIANGLE LABORATORIES, INC.

Continuing Calibration for P022549

Analysis Date.....: 07/18/2002

Method.....: C2NF

Operator.....: JMM

Instrument...: P

Init Calibration.: PF56152

Std.Conc.....: 10.00

ICal Date.....: 06/15/2002

Analysis Time.....: 03:26

GC Column...: DB-225

Analyte Summary

Name	RF	Ratio	RT	RT	Rel. RT	ICal RF	Delta RF	%D
		1&2	Lo/High					
2378-TCDF	1.091	0.72	18:43	23:38	1.0004	1.120	-0.029	-2.6%
			26:07					
TOTAL TCDF	1.091	0.72				1.120	-0.029	-2.6%
2378-TCDD	1.156	0.81	19:33	22:09	1.0009	1.131	0.025	2.2%
			25:17					
TOTAL TCDD	1.156	0.81				1.131	0.025	2.2%

Other Standard Summary

Name	RF	Ratio	RT	RT	Rel. RT	ICal RF	Delta RF	%D
		1&2	Lo/High					
37Cl-TCDD	0.953		20:08	22:10	1.0018	1.037	-0.084	-8.1%
			24:08					

Internal Standard Summary

Name	RF	Ratio	RT	RT	Rel. RT	ICal RF	Delta RF	%D
		1&2	Lo/High					
13C12-2378-TCDF	1.512	0.76	22:37	23:37	1.0000	1.519	-0.007	-0.4%
			24:37					
13C12-2378-TCDD	1.078	0.81	20:08	22:08	1.0000	1.075	0.003	0.3%
			24:08					

Recovery Standard Summary

Name	RF	Ratio	RT	RT	Rel. RT	ICal RF	Delta RF	%D
		1&2	Lo/High					
13C12-1234-TCDD	1.000	0.80		22:27	1.0145	1.000	0.000	0.0%

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	23:38		0.72	39.43	16.56	22.87	1.000	2378-TCDF	AN
304-306			1 Peak						
13C12-TCDF			0.65-0.89						
316-318	23:37		0.76	361.40	156.45	204.95	1.000	13C12-2378-TCDF	ISO
316-318			1 Peak						

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

TCDD			0.65-0.89						
320-322	22:09		0.81	29.77	13.32	16.45	1.001	2378-TCDD	AN
320			1 Peak						
37C1-TCDD									
328	22:10			24.56	24.56		1.002	37C1-TCDD	SUR1
328-330			1 Peak						
13C12-TCDD			0.65-0.89						
332-334	22:08		0.81	257.59	114.91	142.68	1.000	13C12-2378-TCDD	IS1
	22:27		0.80	238.97	106.32	132.65	1.015	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 ***

Analysis Date....: 07/17/2002
Operator.....: CGK
Init Calibration.: TF5612B
ICal Date.....: 06/12/2002

Method.....: 161B
Instrument...: T
Std. Conc....: 10.00
GC Column...: DB-5
GC Column ID: 2213722

Analyte Summary Name	Ratio	RT	RT	Rel. RT	ICal RF	Conc	Conc Range
	1&2	Lo/Hi					
Total TriCDF		17:49			0.000		
		24:49					
1368-TCDF	0.815	23:38	23:48	0.8874	1.059		
		28:41					
2378-TCDF	0.826		26:51	1.0011	1.059	11.09	8.60 - 11.60
TOTAL TCDF	0.806				1.059		
1368-TCDD	0.787	24:55	25:05	0.9113	1.063		
		28:39					
1379-TCDD	0.750		25:27	0.9248	1.063		
2378-TCDD	0.764		27:31	1.0000	1.063	10.41	8.20 - 12.30
TOTAL TCDD	0.768				1.063		
12378-PeCDF	1.532	28:33	30:41	1.0003	1.134	53.22	41.00 - 60.00
		32:28					
23478-PeCDF	1.511		31:21	1.0006	1.104	53.54	41.00 - 61.00
TOTAL PeCDF	1.521				1.119		
12378-PeCDD	1.557	29:45	31:41	1.0003	1.039	53.04	39.00 - 65.00
		32:18					
TOTAL PeCDD	1.557				1.039		
123478-HxCDF	1.274	32:56	34:03	1.0000	1.125	53.98	45.00 - 56.00
		35:41					
123678-HxCDF	1.266		34:10	1.0006	1.149	56.85	44.00 - 57.00
234678-HxCDF	1.257		34:39	1.0006	1.089	54.90	44.00 - 57.00
123789-HxCDF	1.281		35:28	1.0006	1.140	53.84	45.00 - 56.00
TOTAL HxCDF	1.269				1.126		
123478-HxCDD	1.258	33:24	34:46	1.0006	1.078	53.38	39.00 - 64.00
		35:18					
123678-HxCDD	1.255		34:51	1.0006	1.039	51.84	39.00 - 64.00
123789-HxCDD	1.238		35:11	1.0100	1.117	47.37	41.00 - 61.00
TOTAL HxCDD	1.250				1.078		

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VER TB23571

Date: 07/17/2002

1234678-HpCDF	0.974	36:59	37:09	1.0005	1.346	52.45	45.00 - 55.00
		38:55					
1234789-HpCDF	1.005		38:45	1.0008	1.335	52.87	43.00 - 58.00
TOTAL HpCDF	0.987				1.340		
1234678-HpCDD	1.046	37:16	38:13	1.0005	0.934	54.73	43.00 - 58.00
		38:23					
TOTAL HpCDD	1.046				0.934		
OCDF	0.887	40:01	42:15	1.0055	1.217	114.23	63.00 -159.00
		44:01					
OCDD	0.840	40:01	42:02	1.0002	1.014	103.06	79.00 -126.00
		44:01					

Other Standard Summary

Name	Ratio	RT	RT	Rel. RT	ICal RF	Conc	Conc Range
	1&2	Lo/Hi					
37Cl-TCDD		25:31	27:31	1.0000	1.105	10.49	8.30 - 12.10
		29:31					

Internal Standard Summary

Name	Ratio	RT	RT	Rel. RT	ICal RF	Conc	Conc Range
	1&2	Lo/Hi					
13Cl2-2378-TCDF	0.748	25:20	26:49	0.9813	1.311	112.83	76.00 -131.00
		30:20					
13Cl2-2378-TCDD	0.801	25:20	27:31	1.0070	1.129	100.52	85.00 -117.00
		29:20					
13Cl2-PeCDF 123	1.511	25:20	30:40	1.1222	1.162	87.47	76.00 -130.00
		35:20					
13Cl2-PeCDF 234	1.498		31:20	1.1464	1.185	88.73	77.00 -130.00
13Cl2-PeCDD 123	1.489	23:20	31:40	1.1588	0.831	83.83	62.00 -160.00
		33:20					
13Cl2-HxCDF 478	0.504	31:10	34:03	0.9682	1.185	120.60	76.00 -131.00
		39:10					
13Cl2-HxCDF 678	0.505		34:09	0.9710	1.200	123.52	70.00 -143.00
13Cl2-HxCDF 234	0.505		34:38	0.9846	1.173	115.59	73.00 -137.00
13Cl2-HxCDF 789	0.512		35:27	1.0080	0.984	112.82	74.00 -135.00
13Cl2-HxCDD 478	1.301	34:10	34:45	0.9881	0.877	108.23	85.00 -117.00
		36:10					
13Cl2-HxCDD 678	1.148		34:50	0.9903	0.959	111.68	85.00 -118.00
13Cl2-HpCDF 678	0.447	33:10	37:08	1.0557	0.833	108.08	78.00 -129.00
		44:10					
13Cl2-HpCDF 789	0.431		38:43	1.1009	0.670	105.43	77.00 -129.00
13Cl2-HpCDD 678	1.043	33:10	38:12	1.0862	0.789	97.56	72.00 -138.00
		41:10					

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13C12-OCDD 0.866 41:52 42:01 1.1948 0.742 147.96 96.00 -415.00
42:12

Recovery Standard Summary

Name	Ratio	RT	RT	Rel. RT	ICal	Conc	Conc	Range
	1&2	Lo/Hi			RF			
13C12-1234-TCDD	0.800	25:20	27:20	0.9931	1.000			
		29:20						
13C12-HxCDD 789	1.204	34:10	35:10	1.0121	1.000			
		36:10						

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	23:48		0.82	66.46	29.85	36.61	0.887	1368-TCDF	AN
	26:51		0.83	65.56	29.66	35.90	1.001	2378-TCDF	AN
304-306			2 Peaks						
13C12-TCDF			0.65-0.89						
316-318	26:49		0.75	558.13	238.81	319.32	0.981	13C12-2378-TCDF	ISO
316-318			1 Peak						

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

TCDD			0.65-0.89						
320-322	25:05		0.79	46.06	20.28	25.78	0.911	1368-TCDD	AN
	25:27		0.75	39.26	16.83	22.43	0.925	1379-TCDD	AN
	27:31		0.76	47.40	20.53	26.87	1.000	2378-TCDD	AN
320			3 Peaks						
37Cl-TCDD									
328	27:31			43.74	43.74		1.000	37Cl-TCDD	CLS
328-330			1 Peak						
13C12-TCDD			0.65-0.89						
332-334	27:20		0.80	377.33	167.71	209.62	0.993	13C12-1234-TCDD	RS1
	27:31		0.80	428.20	190.41	237.79	1.007	13C12-2378-TCDD	IS1
332-334			2 Peaks						

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

PeCDF			1.32-1.78						
340-342	30:41		1.53	231.46	140.04	91.42	1.000	12378-PeCDF	AN
	31:21		1.51	234.51	141.10	93.41	1.001	23478-PeCDF	AN
340-342			2 Peaks						
13C12-PeCDF			1.32-1.78						
352-354	30:40		1.51	383.50	230.77	152.73	1.122	13C12-PeCDF 123	IS2
	31:20		1.50	396.75	237.92	158.83	1.146	13C12-PeCDF 234	IS3
352-354			2 Peaks						

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

PeCDD			1.32-1.78						
356-358	31:41		1.56	144.87	88.22	56.65	1.000	12378-PeCDD	AN
356-358			1 Peak						
13C12-PeCDD			1.32-1.78						
368-370	31:40		1.49	262.86	157.27	105.59	1.159	13C12-PeCDD 123	IS4
368-370			1 Peak						

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

HxCDF			1.05-1.43						
374-376	34:03		1.27	230.87	129.34	101.53	1.000	123478-HxCDF	AN

Compound/
M_Z... ..RT. OK Ratio Total.Area... Area.Peak.1.. Area.Peak.2.. Rel.RT Compound.Name.. ID..

	34:10	1.27	257.58	143.91	113.67	1.001	123678-HxCDF	AN
	34:39	1.26	215.65	120.09	95.56	1.001	234678-HxCDF	AN
	35:28	1.28	181.25	101.78	79.47	1.001	123789-HxCDF	AN
374-376	4 Peaks							

13C12-HxCDF	0.43-0.59							
384-386	34:03	0.50	380.19	127.45	252.74	0.968	13C12-HxCDF 478	IS5
	34:09	0.50	394.32	132.28	262.04	0.971	13C12-HxCDF 678	IS6
	34:38	0.51	360.69	121.03	239.66	0.985	13C12-HxCDF 234	IS7
	35:27	0.51	295.32	99.96	195.36	1.008	13C12-HxCDF 789	IS8
384-386	4 Peaks							

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

HxCDD	1.05-1.43							
390-392	34:46	1.26	145.31	80.96	64.35	1.001	123478-HxCDD	AN
	34:51	1.25	153.46	85.40	68.06	1.001	123678-HxCDD	AN
	35:11	1.24	142.19	78.66	63.53	1.010	123789-HxCDD	AN
390-392	3 Peaks							

13C12-HxCDD	1.05-1.43							
402-404	34:45	1.30	252.51	142.76	109.75	0.988	13C12-HxCDD 478	IS9
	34:50	1.15	284.93	152.31	132.62	0.990	13C12-HxCDD 678	IS10
	35:10	1.20	266.03	145.34	120.69	1.012	13C12-HxCDD 789	RS2
402-404	3 Peaks							

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

HpCDF	0.88-1.20							
408-410	37:09	0.97	169.09	83.41	85.68	1.001	1234678-HpCDF	AN
	38:45	1.00	132.63	66.47	66.16	1.001	1234789-HpCDF	AN
408-410	2 Peaks							

13C12-HpCDF	0.37-0.51							
418-420	37:08	0.45	239.50	73.95	165.55	1.056	13C12-HpCDF 678	IS11
	38:43	0.43	187.91	56.64	131.27	1.101	13C12-HpCDF 789	IS12
418-420	2 Peaks							

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

HpCDD	0.88-1.20							
424-426	38:13	1.05	104.67	53.50	51.17	1.001	1234678-HpCDD	AN
424-426	1 Peak							

13C12-HpCDD	0.88-1.20							
436-438	38:12	1.04	204.77	104.54	100.23	1.086	13C12-HpCDD 678	IS13
436-438	1 Peak							

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

OCDF	0.76-1.02							
442-444	42:15	0.89	203.01	95.44	107.57	1.006	OCDF	AN

Compound/ M_Z	..RT.	OK	Ratio	Total.Area...	Area.Peak.1..	Area.Peak.2..	Rel.RT	Compound.Name..	ID..
442-444									
					1 Peak				
OCDD			0.76-1.02						
458-460	42:02		0.84	152.61	69.65	82.96	1.000	OCDD	AN
458-460					1 Peak				
13C12-OCDD			0.76-1.02						
470-472	42:01		0.87	292.07	135.54	156.53	1.195	13C12-OCDD	IS14
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: 07/18/2002

TRIANGLE LABORATORIES, INC.
Continuing Calibration for P022563

Analysis Date.....: 07/18/2002
Operator.....: CGK
Init Calibration.: PF56152
ICal Date.....: 06/15/2002
Analysis Time.....: 14:34

Method.....: C2NF
Instrument...: P
Std.Conc.....: 10.00
GC Column...: DB-225

Analyte Summary

Name	RF	Ratio 1&2	RT		Rel. RT	ICal		%D
			Lo/High	RT		RF	Delta RF	
2378-TCDF	1.055	0.76	18:45 26:05	23:38	1.0013	1.120	-0.065	-5.8%
TOTAL TCDF	1.055	0.76				1.120	-0.065	-5.8%
2378-TCDD	1.101	0.76	19:33 25:16	22:09	1.0009	1.131	-0.030	-2.7%
TOTAL TCDD	1.101	0.76				1.131	-0.030	-2.7%

Other Standard Summary

Name	RF	Ratio 1&2	RT		Rel. RT	ICal		%D
			Lo/High	RT		RF	Delta RF	
37C1-TCDD	0.996		20:08 24:08	22:09	1.0009	1.037	-0.041	-4.0%

Internal Standard Summary

Name	RF	Ratio 1&2	RT		Rel. RT	ICal		%D
			Lo/High	RT		RF	Delta RF	
13C12-2378-TCDF	1.587	0.76	22:36 24:36	23:36	1.0000	1.519	0.068	4.5%
13C12-2378-TCDD	1.094	0.80	20:08 24:08	22:08	1.0000	1.075	0.019	1.7%

Recovery Standard Summary

Name	RF	Ratio 1&2	RT		Rel. RT	ICal		%D
			Lo/High	RT		RF	Delta RF	
13C12-1234-TCDD	1.000	0.83		22:26	1.0136	1.000	0.000	0.0%

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	23:38		0.76	51.67	22.39	29.28	1.001	2378-TCDF	AN
304-306			1 Peak						
13C12-TCDF			0.65-0.89						
316-318	23:36		0.76	489.82	211.30	278.52	1.000	13C12-2378-TCDF	ISO
316-318			1 Peak						

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

TCDD			0.65-0.89						
320-322	22:09		0.76	37.14	15.99	21.15	1.001	2378-TCDD	AN
320			1 Peak						
37Cl-TCDD									
328	22:09			33.60	33.60		1.001	37Cl-TCDD	SUR1
328-330			1 Peak						
13C12-TCDD			0.65-0.89						
332-334	22:08		0.80	337.47	150.29	187.18	1.000	13C12-2378-TCDD	IS1
	22:26		0.83	308.60	140.36	168.24	1.014	13C12-1234-TCDD	RS1
332			2 Peaks						

Column Description.....

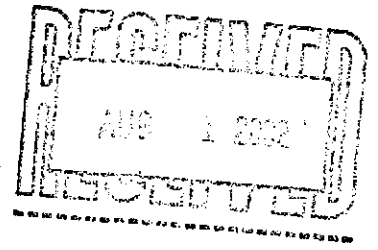
- M_Z - Nominal Ion Mass(es)
- ..RT. - Retention Time (mm:ss)
- Rat.1 - Ratio of M/M+2 Ions
- OK - RO=Ratio Outside Limits
- Rel.RT - Relative Retention Time

*** End of Report ***

TRIANGLE LAB
Sample Analysis - Dioxin/Furan
July 29, 2002
Crystal Springs, MS
Book VI
Sample Data

Project # 57930

Dates of Samples/ COC	Sample #	Pages	Depth
	Case Narrative	1-12	
	Document Control (COC)	13-36	
	Sample Data	37-	
	OPR	51-68	
	TLI Blank	69-87	
7/19/02	DF-DP220	88-119	0-0.5'
	DF-DP220 (tetra only)	120-128	0-0.5'
	DF-DP220	129-157	0.5-1'
	DF-DP220 (tetra only)	158-166	0.5-1'
	DF-DP220	167-198	1-2'
	DF-DP220 (tetra only)	199-207	1-2'
	DF-DP164	208-238	0-0.5'
	DF-DP164 (tetra only)	239-247	0-0.5'
	DF-DP164	248-269	0.5-1'
	DF-DP164	270-291	1-2'
(Continued in Book VII)			



CASE NARRATIVE

**Analysis of Samples for the Presence of
Polychlorinated Dibenzo-*p*-Dioxins and Dibenzofurans by
High-Resolution Chromatography / High-Resolution Mass Spectrometry**

Method 1613B (9/97)

Date:	July 29, 2002
Client ID:	Martin and Slagle
P.O. Number:	
TLI Project Number:	57930

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Overview

The samples and associated QC samples were extracted and analyzed according to procedures described in EPA Method 1613B (September 1997). 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 1613 dioxin/furan analyses of the fourteen soil samples.

Quality Control Samples

A laboratory method blank and an ongoing precision and recovery (OPR) sample are extracted and analyzed with each batch of samples.

Quality Control Remarks

This analytical data has been released after being subjected to a series of inspections. General deviations from acceptable QC requirements are identified below. Specific QC issues associated with this particular project are:

Sample receipt: Sixteen soil sample were received from Martin and Slagle in good condition on July 20, 2002 at 4.0 °C and stored in a refrigerator at 4°C

Sample Preparation Laboratory: None

Mass Spectrometry: None

Data Review: Samples DF-DP157-0,5'-1' and DUPLICATE are being re-extracted. The results for these samples will be forwarded as soon as possible.

The recovery for the 123678-HxCDF internal standard in the MSD is outside method limits. As the associated analytes results are within QC limits the results are not significantly affect.

The relative percent difference of OCDD analyte in the MS/MSD analyses and the percent recovery of 23478-PeCDF analyte in the MSD are above QC criteria. TLI guidelines allow up to two analytes to have percent recovery as high as 145% as low as 60%, so long as the relative percent differences are within the QC criteria. The results for the 23478-PeCDF results may be slightly overestimated in the field samples. TLI guidelines also allow up to two analytes to have relative percent differences as high as 35%, so long as the percent recoveries are within the QC criteria.

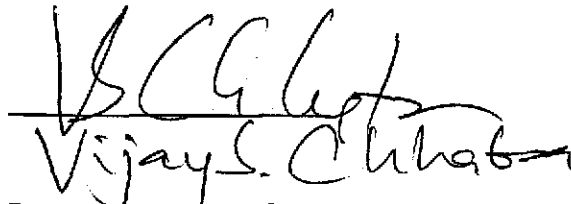
General Comments: No 2,3,7,8-substituted target analytes were detected in the method blank above the target detection limit (TDL).

The detection limits in some samples may be above the Target Detection Limit due to Method 1613B reporting format which requires that GC peaks which do not meet QC criteria for ion-abundance ratio be reported in the detection limit.

The analytical data presented in this report are consistent with the guidelines of Method 1613B. Any exceptions have been discussed in the QC Remarks section of this case narrative with emphasis on their effect on the data. Should Martin and Slagle have any questions or comments regarding this data package, please feel free to contact one of our Project Scientists at (919) 544-5729.

For Triangle Laboratories, Inc.,

Released by,


Report Preparation Chemist

The total number of pages in the data package is: 594.

Method 1613 Sample Calculations:

Analyte Concentration

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

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

Where:

- $Amt_{(\sigma)}$ = amount of a given analyte, expressed in nanograms (ng) or picograms (pg).
- 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 ($W = 1.0$ for Method 23 samples)

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, expressed in ng or pg
- 2.5 = minimum response required for a GC signal
- H = sum of the height of the noise level
- H_{β} = sum of the height of the characteristic ions of the corresponding internal standard
- Q_{β} = amount of internal standard added to the sample before extraction
- $RRF_{(\sigma)}$ = mean analyte relative response factor from the initial calibration
- W = sample weight or volume

Data Flags

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

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

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

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

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

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

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

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

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

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

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

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

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



TRIANGLE LABORATORIES, INC.

LIST OF CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

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

Primary NELAC Certificate: State of New Jersey, Department of Environmental Protection. ID #NC851. **CAA**, Methods 0023A and MM5 (Sampling Train). **Secondary NELAC Certificate:** **SDWA**, Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water; **CWA**, Method 1613, PCDD/PCDF & totals; **RCRA/CERCLA**, Method 8290, PCDD/PCDF & totals. Expires August 16, 2002.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Primary NELAC Certificate: State of New Jersey, Department of Environmental Protection. ID #NC851. CAA, Methods 0023A and MM5 (Sampling Train). **Secondary NELAC Certificate:** SDWA, Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water; CWA, Method 1613, PCDD/PCDF & totals; RCRA/CERCLA, Method 8290, PCDD/PCDF & totals. Expires August 16, 2002.

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

Secondary NELAC Certificate: New York State Department of Health, LAB ID #11026. Potable Water, 2,3,7,8-TCDD, EPA 1613, Serial # 14199; Non-Potable Water, 2,3,7,8-TCDD, EPA 613, Serial # 14200. Valid through 15 June 2002.

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

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

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

Oklahoma Department of Environmental Quality. Laboratory #9612. 2,3,7,8 TCDD (Dioxin). Expires August 31, 2002.

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

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

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

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

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

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

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

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

Secondary NELAC Certificate: State of Utah, Department of Health. ID # TRIA, Account # 9195445729 SDWA Method 1613, 2,3,7,8-TCDD for Dioxin in Drinking Water; CWA Method 1613, PCDD/PCDF & totals; RCRA/CERCLA Methods 8280/8290, PCDD/PCDF & totals. Expires June 30, 2002.

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

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

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

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

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

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

PHARMACEUTICAL

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

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

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

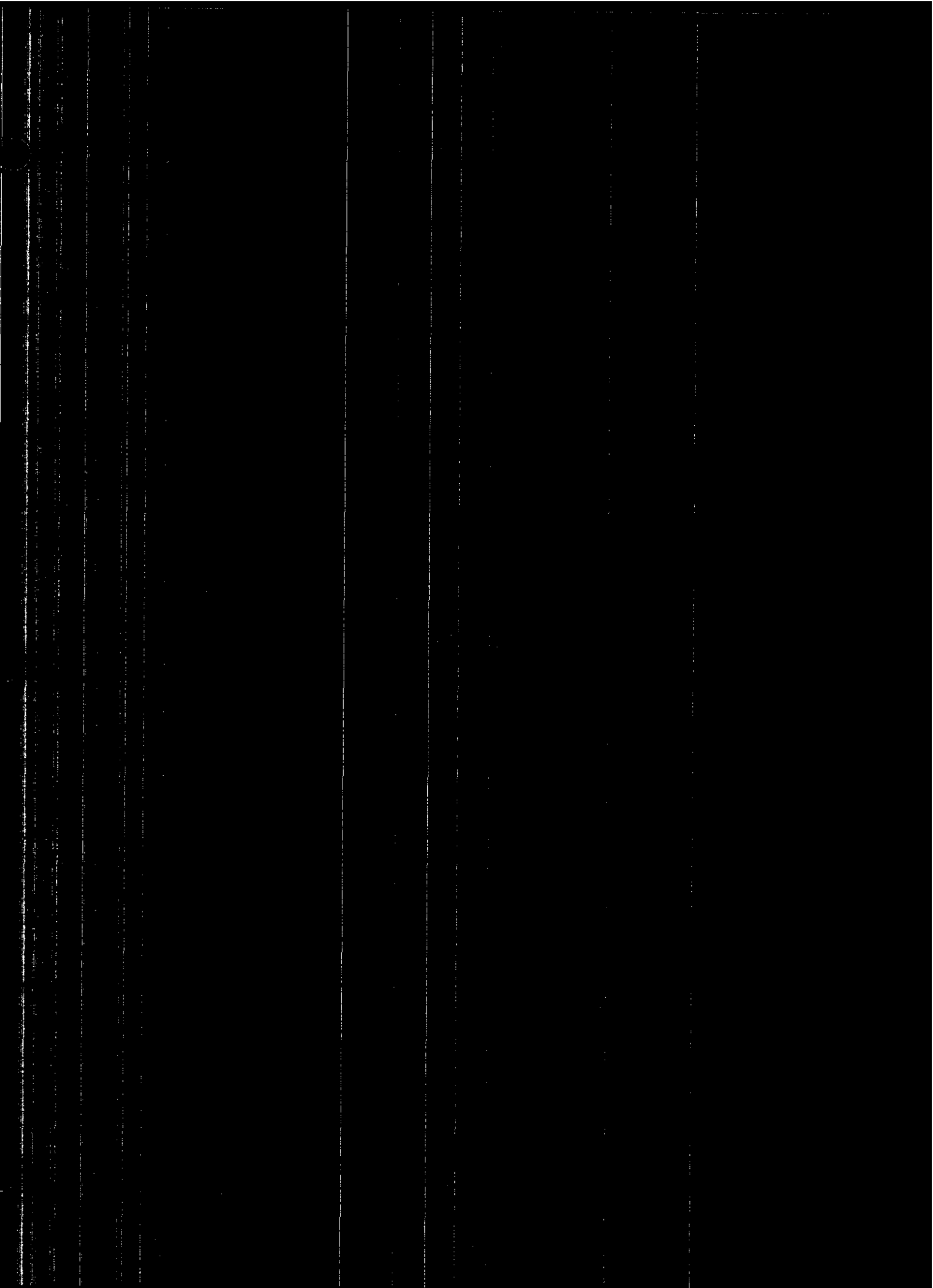
OTHER

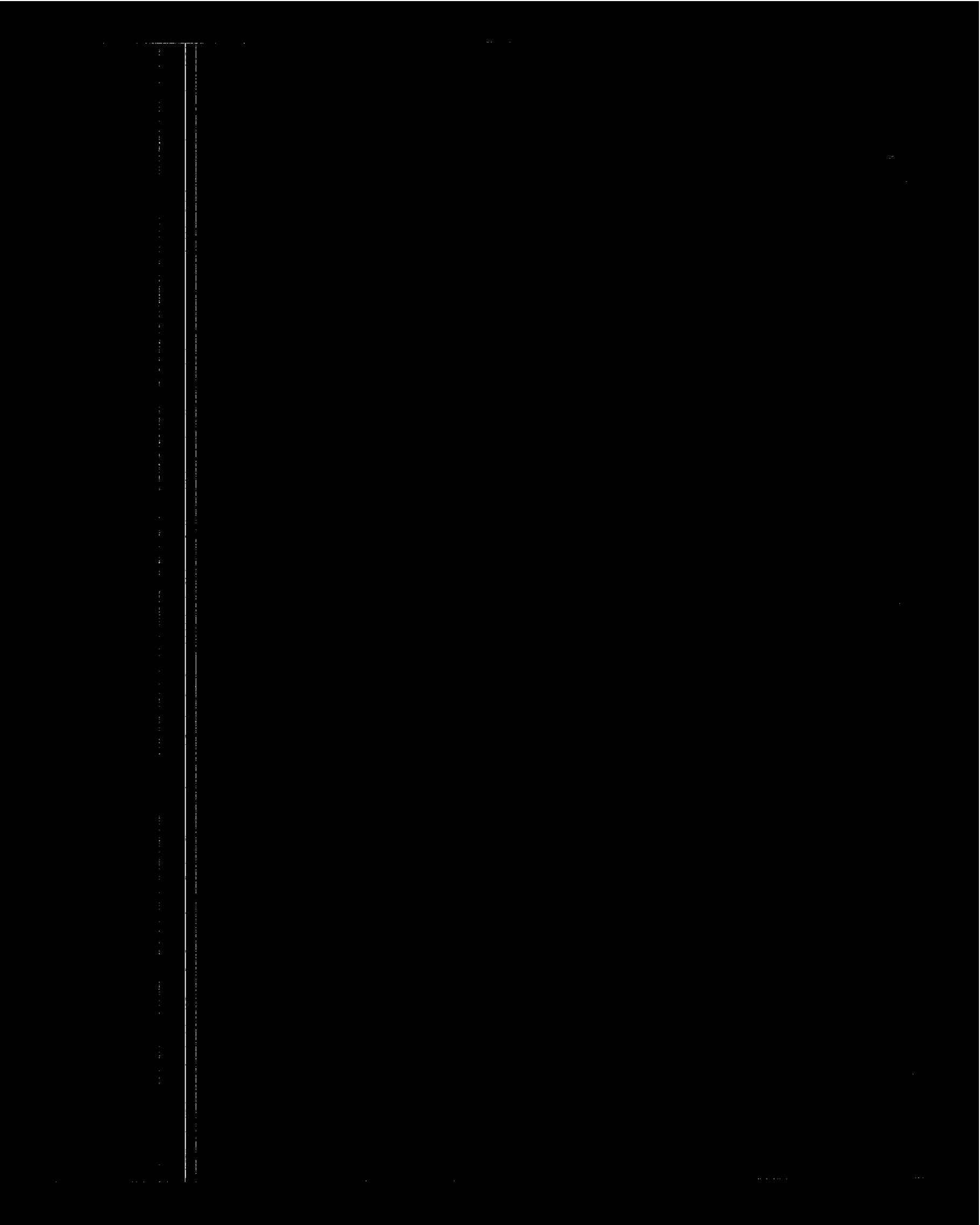
Clinical Laboratory Improvement Amendments (CLIA) Registration. ID # 34D0705123.
Department of Health & Human Services, Health Care Financing Administration. Certificate for the Acceptance of Human Specimens for the purposes of performing laboratory examinations or procedures - Chemistry, Toxicology,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

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

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

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





DOCUMENT
CONTROL



Environmental Chemistry
Consulting Services, Inc.

2525 Advance Road
Madison, WI 53718
Phone 608-221-8700 FAX 608-221-4889

19 JUL 02
CHAIN OF CUSTODY
DIOXIN/FURAN
SPCS

No. 004205
Page 1 of 2

Turn Around (circle one) Normal Rush
Report Due:

Project Number:	Project Name:	Project Location:	Sampled By (Print):	Collection		Matrix	Total Bottles	Preserv.	Analysis Requested	METHOD	JAP. SER. #	Comments	Laboratory Number		
				Date	Time										
	ROBERT MARTIN	MARTIN SCHOLE	CHOCIK PREL												
	KUHLMAN ELECTRIC	CRYSTAL SPRING MISS		1902	1124	S	1	A	DIOXINS + FURANS ALL	1613B	AS 583952				
				1902	1136	S	1	A		1613B	AS 583934				
				1902	1157	S	1	A		1613B	AS 583935				
				1902	1225	S	1	A		1613B	AS 583938				
				1902	1242	S	1	A		1613B	AS 583953				
				1902	1304	S	1	A		1613B	AS 583954				
				1902	1322	S	1	A		1613B	AS 583971				
				1902	1331	S	1	A		1613B	AS 583972				
				1902	1400	S	1	A		1613B	AS 583973				
				1902	1408	S	1	A		1613B	AS 583951				
				1902	1416	S	1	A		1613B	AS 583959				
				1902	1441	S	1	A		1613B	AS 583960				
*Preservation Code				Relinquished By:		Date/Time:		Relinquished By:		Date/Time:		Received By:		Date/Time:	
A=None B=HCL C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH O=Other(Indicate)				Robert W Johnson		7530						7/24/02			
Custody Seal: Present/Absent				Relinquished By:		Date/Time:		Received By:		Date/Time:		Received By:		Date/Time:	
Intact/Not Intact															
Seal #s															
Shipped Via:															

JARS EAGLE PITCHER 107 F 2049040 WHITE - REPORT COPY YELLOW - LABORATORY COPY PINK - SAMPLER/SUBMITTER



Environmental Chemistry
Consulting Services, Inc.
2525 Advance Road
Madison, WI 53718
Phone 608-221-8700
FAX 608-221-4889

CHAIN OF CUSTODY
DIXON/FURAN
SPCS

No. 004206
Page 2 of 2

Turn Around (circle one) Normal Rush
Report Due:

Project Number:		Mail Report To: ROBERT MARTIN		P.O. No.:	Quote No.:	Laboratory Number
Project Name: KOHLMAN ELECTRIC		Company: MARTIN F SCAGLE		SPL 67C	SENAL	
Project Location: CRYSTAL SPRINGS, MISSOURI		Address: 208A SUTTON AVE, BLACK MOUNTAIN, NC		AS 583950		
Sampled By (Print): CHUCK PEEL		28711		AS 583968		
Sample Description	Collection		Total Bottles	Preserv*	Analysis Requested	Method
	Date	Time				
DUPLICATE	9/20/02	1457	1	A	FURAN ²	ALL 1013B
DF-DP177-0-0.5'	9/20/02	1457	1	A		1013B AS 583968
DF-DP177-0.5' 1st	9/20/02	1510	1	A		1013B AS 583969
DF-DP177-1.5' 2nd	9/20/02	1519	1	A		1013B AS 583967
DIXON FURAN TIME ANALYSIS 19JUL02						
*Preservation Code		Relinquished By:		Date/Time:		Date/Time:
A=None B=HCL C=H2SO4		Robert W Johnson 19JUL02		1530		Received By: [Signature]
D=HNO3 E=EnCore F=Methanol		Relinquished By:		Date/Time:		Date/Time:
G=NaOH O=Other (Indicate)						Received By:
Custody Seal: Present/Absent		Intact/Not Intact		Seal #s		Date/Time:
Shipped Via:						Date/Time:

WHITE - REPORT COPY YELLOW - LABORATORY COPY PINK - SAMPLER/SUBMITTER

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

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

TLI Project Number 57930
 Client: MAS07 - Martin & Slagle
 Project: KOHLMAN ELECTRIC

Date Received 07/20/02 By *B. J. [Signature]*
 Carrier and Number FedEx/823929085061

Book 331
 Page 18

TLI Number	Client Sample ID	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	DISPOSED Date/Init
331-18-1	DF-DP220-0-0.5' DF-DP220-0-0.5'	SOIL C02	<i>SPW 7-23-02</i>	<i>SPW 7-23-02</i>					
331-18-2	DF-DP220-0.5-1' DF-DP220-0.5-1'	SOIL C02							
331-18-3	DF-DP220-1-2' DF-DP220-1-2'	SOIL C02							
331-18-4	DF-DP164-0-0.5' DF-DP164-0-0.5'	SOIL C02							
331-18-5	DF-DP164-0.5-1' DF-DP164-0.5-1'	SOIL C02							
331-18-6	DF-DP164-1-2' DF-DP164-1-2'	SOIL C02							
331-18-7	DF-DP159-0-0.5' DF-DP159-0-0.5'	SOIL C02							
331-18-8	DF-DP159-0.5-1' DF-DP159-0.5-1'	SOIL C02							
331-18-9	DF-DP159-1-2' DF-DP159-1-2'	SOIL C02							
331-18-10	DF-DP157-0-0.5' DF-DP157-0-0.5'	SOIL C02							
331-18-11	DF-DP157-0.5-1' DF-DP157-0.5-1'	SOIL C02							
331-18-12	DF-DP157-1-2' DF-DP157-1-2'	SOIL C02							
331-18-13	DUPLICATE DUPLICATE	SOIL C02							
331-18-14	DF-DP177-0-0.5' DF-DP177-0-0.5'	SOIL C02							

Ice Chest ICE Temp 4.0 C

Receiving Remarks:
 Archive Remarks:

TRIANGLE LABORATORIES, INC.
SAMPLE TRACKING AND PROJECT MANAGEMENT FORM

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

TLI Proj#: 57930- Samples: 16 ~~MS/MSD~~ TurnAround.: 18 Day(s)
Prod Code: D70011 Matrix.: SOIL Hold Time...: 365 Day(s)
DetectLim: 1 ppt Type...: C Start Date.: 07/22/02
Recvd...: 07/20/02 Ship By....: 08/07/02
DWL Due Dt.: 07/30/02

Analyte List.: Tetra - Octa

Method.....: 1613B Tetra-Octa
Client Proj...: Kuhlman Electric
Client.....: Martin & Slagle (MAS07)
P.O. No.....: Collect Dt/Tm: 07/19/02 11:22
Contact.....: Robert Martin Phone.....: 828-669-3929
Proj. Mgr.....: Fax.....: 828-669-5289
Sample Origin: NC

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

TEF.....: EPA Prespike Standard: n/a
Extraction Exp...: 07/19/03

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

Reporting Format: Report Option II

See MILES for Instructions/Communications.

Completed by: AC DATE: 07-22-02
Reviewed by: AC DATE: 07-22-02 (PMGT0197)

Sample	Empty	Wet Vial	Dry Vial	Entered.By	Date	Time	%Moist	%Solid	Valid Weight From-To	Target Weight
ord	R	Vial.Wt	Weight...							
002	Y	19.7700	0.0000	0.0000	WHITE	07/23/02 14:30:20	19.8	80.2	11.9701-12.9676	12.4688
003	Y	21.9400	0.0000	0.0000	WHITE	07/23/02 14:30:20	21.9	78.1	12.2919-13.3163	12.8041
004	Y	20.3800	0.0000	0.0000	WHITE	07/23/02 14:30:20	20.4	79.6	12.0603-13.0653	12.5628
005	Y	20.0800	0.0000	0.0000	WHITE	07/23/02 14:30:20	20.1	79.9	12.0150-13.0163	12.5156
006	Y	19.0500	0.0000	0.0000	WHITE	07/23/02 14:30:20	19.1	81.0	11.8519-12.8395	12.3457
007	Y	16.1600	0.0000	0.0000	WHITE	07/23/02 14:30:20	16.2	83.8	11.4558-12.4105	11.9332
008	Y	19.0700	0.0000	0.0000	WHITE	07/23/02 14:30:20	19.1	80.9	11.8665-12.8554	12.3609
009	Y	20.7700	0.0000	0.0000	WHITE	07/23/02 14:30:20	20.8	79.2	12.1212-13.1313	12.6263
010	Y	22.5400	0.0000	0.0000	WHITE	07/23/02 14:30:20	22.5	77.5	12.3871-13.4194	12.9032
011	Y	19.4200	0.0000	0.0000	WHITE	07/23/02 14:30:20	19.4	80.6	11.9107-12.9032	12.4069
012	Y	17.8500	0.0000	0.0000	WHITE	07/23/02 14:30:20	17.7	82.4	11.6505-12.6214	12.1359
013	Y	21.7500	0.0000	0.0000	WHITE	07/23/02 14:30:20	21.8	78.3	12.2605-13.2822	12.7714
014	Y	18.2800	0.0000	0.0000	WHITE	07/23/02 14:30:20	18.3	81.7	11.7503-12.7295	12.2399
015	Y	21.6200	0.0000	0.0000	WHITE	07/23/02 14:30:20	21.6	78.4	12.2449-13.2653	12.7551
016	Y	21.2800	0.0000	0.0000	WHITE	07/23/02 14:30:20	21.3	78.7	12.1982-13.2147	12.7065
017	Y	22.5500	0.0000	0.0000	WHITE	07/23/02 14:30:20	22.6	77.5	12.3871-13.4194	12.9032
018	<no FINAL results found>									
019	<no FINAL results found>									

Percent Moisture/Solid Summary

TLI.MILES.ID	TLI.Number	Client.Id.Number	%Moist	%Solid	ExtrctWt	DryWtEqu	RPD
57930-002	331-18-1	DF-DP220-0-0,5'	19.8	80.2	12.500	10.025	
57930-003	331-18-2	DF-DP220-0,5-1'	21.9	78.1	12.900	10.075	
57930-004	331-18-3	DF-DP220-1'-2'	20.4	79.6	12.600	10.030	
57930-005	331-18-4	DF-DP164-0-0,5'	20.1	79.9	12.600	10.067	
57930-006	331-18-5	DF-DP164-0,5'-1'	19.0	81.0	12.400	10.044	
57930-007	331-18-6	DF-DP164-1'-2'	16.2	83.8	12.000	10.056	
57930-008	331-18-7	DF-DP159-0-0,5'	19.1	80.9	12.400	10.032	
57930-009	331-18-8	DF-DP159-0,5'-1'	20.8	79.2	12.700	10.058	
57930-010	331-18-9	DF-DP159-1'-2'	22.5	77.5	13.000	10.075	
57930-011	331-18-10	DF-DP157-0-0,5'	19.4	80.6	12.500	10.075	
57930-012	331-18-11	DF-DP157-0,5'-1'	17.7	82.4	12.200	10.055	10.044
57930-013	331-18-12	DF-DP157-1'-2'	21.8	78.2	12.800	10.022	10.010

Handwritten annotations in a large bracket on the right side of the summary table, including the values 19.0, 81.0, 10.044, 10.055, 10.010, and 78.2.

Handwritten signature: (CE) RW 7/27/02

Date: 07/26/02

Time: 09:27

TRIANGLE LABORATORIES, INC.
Percent Moisture/Solid Calculations
Project: 57930

PRDPERC v4.04

Page: 2

Sample	Empty	Wet Vial	Dry Vial	Valid Weight	Target				
ord R Vial.Wt	Weight...	Weight...	Entered.By.....	Date....	Time....	%Moist	%Solid	From.....-To.....	Weight...

TLI.MILES.ID....	TLI.Number..	Client.Id.Number.....	%Moist	%Solid	ExtrctWt	DryWtEqu	RPD..
57930-	-014	331-18-13	DUPLICATE	18.3	81.7	12.300	10.049
57930-	-015	331-18-14	DF-DP177-0-0.5'	21.6	78.4	12.800	10.035
57930-	-016	331-18-15	DF-DP177-0.5'-1'	21.3	78.7	12.800	10.074
57930-	-017	331-18-16	DF-DP177-1'-2'	22.6	77.5	13.000	10.075 10.062

File

(EF)

Klu 7/27/02

*** End of Report ***

Sample #	cd	TLI_Number	Customer_Sample_Id	Init_NaOH_Adj	H2SO4_Adj	pH_mL	pH_1_mL	Appearance	Color	Odor	Vol	Entered_By	Date	Time
000	TLI	Blank	TLI Blank	n/a	n/a	n/a	n/a	n/a	SAND	TAN	NONE	0	WHITE	07/23/02 17:58:31 F
001	OPR	OPR	OPR	n/a	n/a	n/a	n/a	n/a	SAND	TAN	NONE	0	WHITE	07/23/02 17:58:32 F
002	331-18-1		DF-DP220-0-0,5'	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:55 F
003	331-18-2		DF-DP220-0,5-1'	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:55 F
004	331-18-3		DF-DP220-1'-2'	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F
005	331-18-4		DF-DP164-0-0,5'	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F
006	331-18-5		DF-DP164-0,5'-1'	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F
007	331-18-6		DF-DP164-1'-2'	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F
008	331-18-7		DF-DP159-0-0,5'	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F
009	331-18-8		DF-DP159-0,5'-1'	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F
010	331-18-9		DF-DP159-1'-2'	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F
011	331-18-10		DF-DP157-0-0,5'	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F
012	331-18-11		DF-DP157-0,5'-1'	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F
013	331-18-12		DF-DP157-1'-2'	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F
014	331-18-13		DUPLICATE	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F
015	331-18-14		DF-DP177-0-0,5'	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F
016	331-18-15		DF-DP177-0,5'-1'	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F
017	331-18-16		DF-DP177-1'-2'	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F
018	331-18-16MS		DF-DP177-1'-2' MS	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F
019	331-18-16MSD		DF-DP177-1'-2' MSD	n/a	n/a	n/a	n/a	n/a	SOIL	BROWN	NONE	0	WHITE	07/23/02 17:58:56 F

*** End of Report ***

Extraction			
Type:	<u>Soxhlet</u> Jar / Sep Funnel / Steam Dist / Cont LL / ASE / Waste Dilution / Solid Phase		
S.O.P:	<u>218</u>	Version:	<u>10</u>
Time On:	<u>17:45</u>		
Time Off:	<u>9:45</u>		
		Solvents/Acids	Lot Numbers
		<u>Toluene</u>	<u>017635</u>
Comments / Observations: <u>Blank/OPR are Sand (Lot#) 7-8-568), 57930-002-019-3611, brown, no odor; 57887-B-002-Sludge, brown, odor. SW 7-23-02</u>			
Concentration			
Type:	<u>Rotovap</u> / KD / Speedvac		
S.O.P:	<u>124</u>	Version:	<u>17</u>
Tridecane Lot #	<u>FT-1-25-304P</u>		
Division:	20%/80%	50%/50%	5ml/20ml Other <u>N/A</u>
Comments / Observations: <u>Sample 2 bumped vial, about 5ml, may have been lost. (C. Hale 7-24-02)</u>			
Cleanup			
S.O.P:	<u>280</u>	Version:	<u>4</u> L.P. 7/24/02
S.O.P:	<u>DSP 260</u>	Version:	<u>14</u> from 7/24/02
S.O.P:		Version:	
		MeCl2/Hept	ID
		1.5%	<u>Cumyl-18-61-1</u>
		20%	<u>Cumyl-18-61-2</u>
		6%	<u>N/A</u> 7/24/02
		Heptane	<u>021381</u>
Comments / Observations: <u>used 50/100 g AAMS silica-gel Lot# SSA 7976-L.P. 7/24/02</u>			
Transfers			
S.O.P:	<u>DSP 272</u>	Version:	<u>9</u>
Division:	<u>N/A</u>		<u>MK</u>
Comments:	<u>N/A</u>		<u>7/25/02</u>
		Solvents	Lot Numbers
		<u>Heptane</u>	<u>021381</u>
		<u>N/A</u>	<u>N/A</u>
<u>Rec 7/27/02</u>			

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

Method: 1613
 Matrix: soil
 Ext. Date: 7-23-02
 Analyst: S. White

<u>SPW</u> <u>8234L</u> <u>USF-A15</u> <u>6/19/03</u> <u>7/23/02</u> <u>16:40</u> <u>0.1 ug/mL</u> <u>20 uL</u>	<u>SPW</u> <u>8259B</u> <u>USF-MX</u> <u>4/29/03</u> <u>7/23/02</u> <u>16:40</u> <u>0.01 ug/mL</u> <u>20 uL</u>	<u>COR</u> <u>B152CC</u> <u>USF-C</u> <u>4/11/03</u> <u>7/24/02</u> <u>12:10</u> <u>0.0 ug/mL</u> <u>20 uL</u>	Chemist Spike # Spike ID " Exp. " Date " Time Concen. Volume
--	--	---	---

Project-Sample ID / TLI ID			Gross Weight Before (g)	Gross Weight After (g)	Sample Size (mL)	SPW	SPW	COR	ug/mL	uL	Any Left Yes / No
57930	0	TLI Blank	/	/	10.0	SPW		COR			Yes / No
57930	1	OPR	/	/	10.0		SPW	COR			Yes / No
57930	2	331-18-1	512.5	529.9	12.5			COR			Yes / No
57930	3	331-18-2	490.9	478.0	12.9			COR			Yes / No
57930	4	331-18-3	457.9	445.2	12.6			COR			Yes / No
57930	5	331-18-4	518.2	505.5	12.6			COR			Yes / No
57930	6	331-18-5	401.7	389.2	12.4			COR			Yes / No
57930	7	331-18-6	439.4	427.4	12.0			COR			Yes / No
57930	8	331-18-7	516.2	503.7	12.4			COR			Yes / No
57930	9	331-18-8	520.2	507.4	12.7			COR			Yes / No
57930	10	331-18-9	498.5	485.4	13.0			COR			Yes / No
57930	11	331-18-10	433.6	421.0	12.5			COR			Yes / No
57930	12	331-18-11	451.3	439.0	12.2			COR			Yes / No
57930	13	331-18-12	453.8	440.9	12.8			COR			Yes / No

Method: 11613
 Matrix: Soil
 Ext. Date: 7-23-02
 Analyst: S. White

<u>SPW</u>	<u>SPW</u>	<u>CER</u>		Chemist
<u>8234F</u>	<u>8259B</u>	<u>8152CC</u>		Spike #
<u>USF-A15</u>	<u>USF-MX</u>	<u>USF-C</u>		Spike ID
<u>6/19/03</u>	<u>4/19/03</u>	<u>4/11/03</u>	<u>1/1</u>	" Exp.
<u>7/23/02</u>	<u>7/23/02</u>	<u>7/24/02</u>	<u>1/1</u>	" Date
<u>16:40</u>	<u>16:40</u>	<u>12:10</u>		" Time
<u>0.7 ug/ml</u>	<u>0.01 ug/ml</u>	<u>0.0 ug/ml</u>		Concen.
<u>20 uL</u>	<u>20 uL</u>	<u>20 uL</u>		Volume

Project-Sample ID / TLI ID			Gross Weight Before (g)	Gross Weight After (g)	Sample Size (g) / mL					
57930	14	331-18-13	406.0	393.6	12.3	SPW				Yes / No
57930	15	331-18-14	546.7	533.8	12.8					Yes / No
57930	16	331-18-15	535.3	522.4	12.8					Yes / No
57930	17	331-18-16	414.2	\	13.0					Yes / No
57930	18	331-18-16MS	\	\	13.0		SPW			Yes / No
57930	19	31-18-16MSD	\	375.0	13.0		SPW			Yes / No
57887 B	2	330-74-2	353.5	253.2	100.0	SPW				Yes / No
57887B-D13 TLI (C) 3e 01m						L.P.				Yes / No
						L.P.				Yes / No
						8234F USF-A15 6/19/03 7/24/02 15.13 0.1 ug/ml 20 uL				Yes / No
						8152CC USF-C 4/11/03 7/24/02 15.13 0.01 ug/ml 20 uL				Yes / No
										Yes / No
										Yes / No
										Yes / No
										Yes / No

Project-Sample ID / TLI ID			1	2	3	4	7	8A	8B	9				
57930	0	TLI Blank	SPW 7-23-02	CO2 7-24-02	A. Hoke 7-24-02	A. Hoke 7-24-02	C. Hoke 7-24-02	NA	FBM 7/24/02	MK 7/25/02				
57930	1	OPR												
57930	2	331-18-1												
57930	3	331-18-2												
57930	4	331-18-3												
57930	5	331-18-4												
57930	6	331-18-5												
57930	7	331-18-6												
57930	8	331-18-7												
57930	9	334-18-8												
57930	10	331-18-9												
57930	11	331-18-10												
57930	12	331-18-11	↓	↓	↓	↓			↓	↓				
57930	13	331-18-12	SPW 7-23-02	CO2 7/24/02	A. Hoke 7-22-02	A. Hoke 7-24-02	C. Hoke 7-24-02	NA	FBM 7/24/02	MK 7/25/02				

- 1) Extraction 2) Spike after extraction 3) Add Tridecane 4) Concentrate {40mL / 10 mL / Tridecane} 5) Combine
 6) Divide / Lipid Determ. 7) Solvent Exchange 8) Cleanup {DSP260 / DSP280 / _____} 9) Transfer () Other:

Project-Sample ID / TLI ID			1	2	3	4	5	4	7	8A	3/4	5B	9
57930	14	331-18-13	Smw 7/23/02	CO2 7/24/02	C.H. 7/24/02	C.H. 7/24/02	/	/	C.H. 7/24/02	NA	NA	7/24/02	7/25/02
57930	15	331-18-14					/	/		NA	NA		
57930	16	331-18-15				PA 7/24/02	/	/	PA 7/24/02	NA	NA		
57930	17	331-18-16					/	/		NA	NA		
57930	18	331-18-16MS					/	/		NA	NA		
57930	19	31-18-16MSD	↓	↓			/	/	PA 7/24/02	NA	NA		
57887 B	2	330-74-2	Smw 7/23/02	CO2 7/24/02	C.H. 7/24/02	C.H. 7/24/02	C.H. 7/24/02	C.H. 7/24/02	C.H. 7/24/02	L.P. 7/24/02	C.H. 7/24/02	↓	↓
57887B-003 TLI Clean-Up			L.P. 7/24/02	L.P. 7/24/02	NA	NA	NA	NA	NA	7/24/02	C.H. 7/24/02	7/24/02	MK 7/24/02

- 1) Extraction 2) Spike after extraction 3) Add Tridecane 4) Concentrate {40mL / 10 mL / Tridecane} 5) Combine
 6) Divide / Lipid Determ. 7) Solvent Exchange 8) Cleanup (DSP260 / DSP280 / 96) 9) Transfer () Other:

TRIANGLE LABORATORIES, INC.
 Transfer Chain-of-Custody Form
 Project 57930

Transfer From: DWLH5 To: DMS5

	Initials..	Date.....	Time...
Released by:	<u>RL</u>	<u>7/25/02</u>	<u>10:45</u>
Accepted by:	<u>[Signature]</u>	<u>7/25/02</u>	<u>11:15</u>

MILES.ID.....	TLI_No.....	Cust.Id.....
✓ 57930- -000	TLI Blank	TLI Blank
✓ 57930- -001	OPR	OPR
✓ 57930- -002	331-18-1	DF-DP220-0-0,5'
✓ 57930- -003	331-18-2	DF-DP220-0,5'-1'
✓ 57930- -004	331-18-3	DF-DP220-1'-2'
✓ 57930- -005	331-18-4	DF-DP164-0-0,5'
✓ 57930- -006	331-18-5	DF-DP164-0,5'-1'
✓ 57930- -007	331-18-6	DF-DP164-1'-2'
✓ 57930- -008	331-18-7	DF-DP159-0-0,5'
✓ 57930- -009	331-18-8	DF-DP159-0,5'-1'
✓ 57930- -010	331-18-9	DF-DP159-1'-2'
✓ 57930- -011	331-18-10	DF-DP157-0-0,5'
✓ 57930- -012	331-18-11	DF-DP157-0,5'-1'
✓ 57930- -013	331-18-12	DF-DP157-1'-2'
✓ 57930- -014	331-18-13	DUPLICATE
✓ 57930- -015	331-18-14	DF-DP177-0-0,5'
✓ 57930- -016	331-18-15	DF-DP177-0,5'-1'
✓ 57930- -017	331-18-16	DF-DP177-1'-2'
✓ 57930- -018	331-18-16MS	DF-DP177-1'-2' MS
✓ 57930- -019	331-18-16MSD	DF-DP177-1'-2' MSD

-----XfrCOC (Rev 11/01/94)-----

Additional comments or instructions:

TRIANGLE LABORATORIES, INC.
HR GC/HRMS ANALYSIS

Method: 1613B Tetra-Octa
Required Detection Limit: 1 ppt

PROJECT: 57930

		SAMPLE INFORMATION				RS Conc	
		1ST COLUMN		2ND COLUMN		20 µl @	0.1 NG/µl
#.crd	TLI / SAMPLE ID / CLIENT / SAMPLE ID	GC/MS FILENAME / COLUMN: <u>DB</u>	CONFIRM	CONFIRM FILENAME / COLUMN: <u>DB228</u>	USF-RS / <u>10</u>	USF-RS / <u>10</u>	ANALYSIS / COMMENTS
					VOLUME <u>20µl</u>	INIT. <u>764</u>	
					SOLN ID <u>82377</u>	DATE <u>7/25/01</u>	
000	TLI Blank	TLI Blank T023762	N				<i>Batch Negative</i>
001	OPR	OPR T023761	-				
002	331-18-1 ✓	DF-DP220-0-0,5' T023763	Y	P022693			
003	331-18-2 ✓	DF-DP220-0,5-1' T023764	Y	P022694			
004	331-18-3	DF-DP220-1'-2' T023765	Y	P022727 P02270			
005	331-18-4	DF-DP164-0-0,5' T023766	Y	P022728 P022711			
006	331-18-5	DF-DP164-0,5'-1' T023767	N				
007	331-18-6	DF-DP164-1'-2' T023768	N				
008	331-18-7	DF-DP159-0-0,5' T023769	Y	P022712			
009	331-18-8	DF-DP159-0,5'-1' T023770	N				
010	331-18-9	DF-DP159-1'-2' T023775	N				
011	331-18-10	DF-DP157-0-0,5' T023776	N				

Comments: _____

Type: C Analysis Order:
OPR, Blank, then Samples.

Spike File: SP161B2S

Amt of Extract: 100%

TRIANGLE LABORATORIES, INC.
HR GC/HRMS ANALYSIS

Method: 1613B Tetra-Octa
Required Detection Limit: 1 ppt

PROJECT: 57930

SAMPLE INFORMATION					RS Conc		
1ST COLUMN			2ND COLUMN		20 µl @	0.1 NG/µl	
S#.crd	TLI / SAMPLE ID / CLIENT / SAMPLE ID	GC/MS FILENAME / COLUMN: <u>DAS</u>	CONFIRM	CONFIRM FILENAME / COLUMN: <u>DB25</u>	USF-RS <u>100</u> / VOLUME <u>20 µl</u> / SOLN ID <u>8237J</u>	USF-RS <u>100</u> / INIT. <u>364</u> / DATE <u>7/25/02</u>	ANALYSIS / COMMENTS
012	331-18-11 DF-DP157-0.5'-1'	<u>T023777</u>	<u>N</u>				<i>Batch Negative</i>
013	331-18-12 DF-DP157-1'-2'	<u>T023778</u>	<u>N</u>				
014	331-18-13 DUPLICATE	<u>T023779</u>	<u>N</u>				
015	331-18-14 DF-DP177-0-0.5'	<u>T023780</u>	<u>Y</u>	<u>P022731</u>			
016	331-18-15 DF-DP177-0.5'-1'	<u>T023781</u>	<u>Y</u>	<u>NT</u>			
017	331-18-16 DF-DP177-1'-2'	<u>T023782</u>	<u>Y</u>	<u>T</u>	<u>P022733</u>		
018	331-18-16MS DF-DP177-1'-2' MS	<u>T023783</u>	-				
019	331-18-16MSD DF-DP177-1'-2' MSD	<u>T023784</u>	-				

Comments: _____

Type: C Analysis Order:
OPR, Blank, then Samples.

Spike File: SP161B2S

Amt of Extract: 100%

---REV 03/07/95 (PSTMF 6)---

Run Log

Instrument ID T0-T102 Column Type PR5 Column ID 2213722 Plot Name T02 Inj. Vol. 20 µl Acquisition ND35US G/C ND35US
 Date* 7/25/02 Time* 21:43 Project # 57930 Sample# 6136B Client Sample ID DF-DP157-0-0.5 Syf Auto Operator/Date CRW 7/25/02 Comments** Not injected, autorm stopped July 11/26/02
 Date* 7/25/02 Time* 22:31 Project # 57930 Sample# --- Client Sample ID OPK Syf 27% Operator/Date YSC 7/27/02
 Date* 7/25/02 Time* 23:19 Project # --- Sample# --- Client Sample ID TL1-blank Syf --- Operator/Date ---
 Date* 7/26/02 Time* 00:30 Project # --- Sample# 331-18-1 Client Sample ID DF-DP220-0-0.5 Syf --- Operator/Date ---
 Date* 7/26/02 Time* 00:52 Project # --- Sample# 331-18-2 Client Sample ID DF-DP220-0.5-1 Syf --- Operator/Date ---
 Date* 7/26/02 Time* 01:42 Project # --- Sample# 331-18-3 Client Sample ID DF-DP220-1-2 Syf --- Operator/Date ---
 Date* 7/26/02 Time* 02:24 Project # --- Sample# 331-18-4 Client Sample ID DF-DP164-0-0.5 Syf --- Operator/Date ---
 Date* 7/26/02 Time* 03:15 Project # --- Sample# 331-18-5 Client Sample ID DF-DP164-0.5-1 Syf --- Operator/Date ---
 Date* 7/26/02 Time* 04:03 Project # --- Sample# 331-18-6 Client Sample ID DF-DP164-1-2 Syf --- Operator/Date ---
 Date* 7/26/02 Time* 04:51 Project # --- Sample# 331-18-7 Client Sample ID DF-DP159-0-0.5 Syf --- Operator/Date ---
 Date* 7/26/02 Time* 05:41 Project # 57930 Sample# 331-18-8 Client Sample ID DF-DP159-0.5-1 Syf --- Operator/Date ---
 Date* 7/26/02 Time* 06:31 Project # --- Sample# 8217 Client Sample ID 8290/1413 Conelie Syf Auto Operator/Date Jan 24/02 Comments** Cond 1413 B 7-2 7/26/02

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syf	332	Operator/Date	Comments**
T023771	7/25/02	21:43	57930	331-18-10	11	DF-DP157-0-0.5	Auto	---	CRW 7/25/02	Not injected, autorm stopped July 11/26/02
T023760	7/25/02	21:43	---	6136B	---	RICHK	Auto	27%	YSC 7/27/02	
T023761	7/25/02	22:31	57930	---	1	OPK	---	4.9 ES		
T023762	7/25/02	23:19	---	---	0	TL1-blank	---	3.1 ES		
T023763	7/26/02	00:30	---	331-18-1	2	DF-DP220-0-0.5	---	6.0 ES		
T023764	7/26/02	00:52	---	331-18-2	3	DF-DP220-0.5-1	---	7.4 ES		
T023765	7/26/02	01:42	---	331-18-3	4	DF-DP220-1-2	---	8.9 ES		
T023766	7/26/02	02:24	---	331-18-4	5	DF-DP164-0-0.5	---	1.1 ES		
T023767	7/26/02	03:15	---	331-18-5	6	DF-DP164-0.5-1	---	9.8 ES		
T023768	7/26/02	04:03	---	331-18-6	7	DF-DP164-1-2	---	1.0 ES		
T023769	7/26/02	04:51	---	331-18-7	8	DF-DP159-0-0.5	---	1.3 ES		
T023770	7/26/02	05:41	57930	331-18-8	9	DF-DP159-0.5-1	Auto	7.7 ES		
T023771	7/26/02	06:31	---	8217	---	8290/1413 Conelie	Auto	1.0 ES	Jan 24/02	Cond 1413 B 7-2 7/26/02

Transcribed from chromatographic data

** W Dated initials required

ConCal Due: _____

ConCal Due: _____

Run Log

Instrument ID 701-1024 Column Type DB-5 Column ID 2213722 Plot Name T02 Ini. Vol. 2.2L Acquisition ND0524 GIC ND0524
 Date 7/26/06 Signature [Signature] Date 7/26/06

Filename	Date	Time	Project #	Sample #	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
T023772	7/26/06	07:45	-	81306	-	PTCHK	Act	17.1	Jpr 7/26/06	
T023773		08:33	578876	Triclop	3	Cleaning BK		7.3 E5		
T023774		09:21	↓	535-742	2	02-F16715		5.8 E5		
T023775		10:08	57930	831-14-9	10	DF-OP157-1'-2'		1.0 E9		
T023776		10:54		-10	11	DF-OP157-0.5'-1'		8.2 E5		
T023777		11:42		-11	12	DF-OP157-0.5'-1'		1.9 E6		
T023778		12:30		-12	13	DF-OP157-1'-2'		6.7 E5		
T023779		13:17		-10	14	Duplicate		5.1 E5		
T023780		14:07		-14	15	DF-OP17-0.5'-1'		8.0E5		
T023781		14:55		-15	16	DF-OP17-0.5'-1'		8.1E5		
T023782		15:43		-14	17	DF-OP17-1'-2'		1.0 E9		
T023783		16:31		↓ - 4ms	18	DF-OP17-1'-2' ms		5.7 E5		
T023784	7/26/06	17:10	57930	331-18-4ms	19	DF-OP17-1'-2' MSP	Act	6.2 E5	Jpr 7/26/06	

Transcribed from chromatographic data
 Dated Initials required

ConCal Due: _____
 ConCal Due: _____

Instrument ID: 70P-38 Column Type: DB225 Column ID: R218646 Plot Name: TT1 Inj. Vol: 2.0 µL Acquisition: DB225 GIC: DB225

Date: 7/25/02 Signature: Johanna Johnson

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
P022670	7/25/02	12:19	—	8136B	—	Rtchk	Auto	—	JSY 7/25/02	Peak end next. JSY 7/25/02
P022677	↓	13:48	—	8136B	—	Rtchk	Auto	20%	JSY 7/25/02	
P022678	7/25/02	15:25	—	8217	—	829011613 Concalk	Auto	4.6E5	JSY 7/25/02	Good All Methods ³⁰⁰ 7/25/02
P022679	↓	17:17	—	8237I	—	RS-100	↓	—	JSY 7/25/02	Peak end next. JSY 7/25/02
P022680	7/25/02	—	57809B	329-95-2	2	02062003	AUTO	—	JSY 7/25/02	Auto run
P022681	7/25/02	—	—	8217	—	829011613 Concalk	Auto	—	JSY 7/25/02	Start next 7/25/02
P022682	7/26/02	02:57	—	8136B	—	Rtchk	Aut	—	JSY 7/26/02	Peak end next. JSY 7/26/02
P022683	7/26/02	03:37	—	8136B	—	Rtchk	Aut	25%	JSY 7/26/02	
P022684	7/26/02	04:28	—	8217	—	829011613 Concalk	Aut	2.3	JSY 7/26/02	Peak end next. JSY 7/26/02
P022685	7/26/02	05:42	—	8237I 8234E	—	RS/ATIS BLK	Aut	1.2	JSY 7/26/02	Auto for next
P022686	7/26/02	06:30	57809B	329-95-2	2	02062003	Aut	9.4	JSY 7/26/02	
P022687	↓	07:20	57905	331-92-1	2	CL820291-DIACALCEJ	Aut	1.4	JSY 7/26/02	
P022688	7/26/02	08:05	57916	331-4-1	2	LABSOS185562 Lysoprotex	↓	1.6	JSY 7/26/02	

Transcribed from chromatographic data
 Dated initials required

ConCal Due: _____
 ConCal Due: _____

Instrument ID: 70P-38 Column Type: DB225 Column ID: 2218646 Plot Name: TT1 Inj. Vol.: 2.0µL Acquisition: DB225 G/C: DB225
 Date: 7/26/02
 Signature: Johna Jhm

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
P022689	7/26/02	09:10	57868	330-55-1	2	D06968	Auto	5.0 E4	JSY 7/26/02	10%
90		10:03	57839A	330-26-3	4	D06910		E4		90%
91		10:48	↓	330-26-4	5	D06911		7.7 E4		90%
92			57839A	330-26-5	6	D06937				90%
93		12:18	57930	331-18-1	2	DF-DP220-0-0,5'				
94		1303	↓	-2	3	DF-DP220-0,5-1'		1.1E5		
95			↓	-3	4	DF-DP220-1'-2'				Samples replaced.
96			↓	-4	5	DF-DP164-0-0,5'				
P022697	7/26/02		57930	331-18-7	8	DF-DP159-0-0,5'	Auto		JSY 7/26/02	754 7/26/02
P022695	7/26/02	1349	57839A	330-26-3	4	D06910		4.0E4		10%
P022696	↓	14:34	↓	-4	5	D06911		4.4 E4		10%
P022697	7/26/02	15:19	57839A	330-26-5	6	D06937	Auto		JSY 7/26/02	10%
P022698	7/26/02	16:08	-	8217	-	82901613 Concent 10	Auto		JSY 7/26/02	No peaks. 754 7/26/02

ConCal Due: 16:28 JSY 7/26/02
 ConCal Due: _____

Transcribed from chromatographic data
 Dated initials required

Instrument ID: 709 Column ID: 2218046 Column Type: DB2M Plot Name: T11 Ini. Vol: 2.2L Acquisition: DB225 GIC: DB225
 Date: 7/27/02 Signature: [Signature]

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
P022704	7/27/02	01:05	-	813615	-	Black	Auto	241	7/27/02	
P022705	7/27/02	01:23	-	8217	-	8290/1013 One-Pr	Aut	52 E4	7/27/02	Good H2 method 7/27/02
P022706	7/27/02	02:06	-	8235	-	Aut/RS Black	Aut	29 E4	7/27/02	
P022707	7/27/02	03:02	57917	331-5-1	2	006991	Aut	31 E4	7/27/02	
P022708	7/27/02	05:44	↓	-25	3	007081		28 E4	7/27/02	
P022709	7/27/02	04:32	57917	↓ -3	6	007104		23 E4	7/27/02	
P022710	7/27/02	05:10	57930	331-18-3	4	DF-08220-1'2'		29 E4	7/27/02	
P022711	7/27/02	06:02		-4	5	DF-08104-0-0.5'		8.1 E4	7/27/02	
P022712	7/27/02	06:47		-7	8	DF-08159-0-0.5'		7.7 E4	7/27/02	
P022713	7/27/02	07:32		-12	14	Duplicate		6.6 E4	7/27/02	
P022714	7/27/02	08:18		-14	15	DF-08177-0-0.5'		4.3 E4	7/27/02	
P022715	7/27/02	09:03	↓	-15	16	DF-08177-0.5-1'		6.4 E4	7/27/02	
P022716	7/27/02	09:48	57930	331-18-10	17	DF-08177-1'-2'	Aut	6.3 E4	7/27/02	

Transcribed from chromatographic data
 Dated initials required

ConCal Due: _____
 ConCal Due: _____

Instrument ID: 709 Column Type: DB225 Column ID: 0682955 Plot Name: TT Inj. Vol: 2.2L Acquisition: DB225 G/C: DB225
 Date: 7/29/02 Signature: [Signature] Date: 7/29/02

Filename	Date*	Time*	Project #	Sample#	No.	Client Sample ID	Syr	332	Operator/Date	Comments**
P022721	7/29/02	05:16	-	81368	-	LTCAC	Auto	57.0	JBY 7/29/02	
P022722	7/29/02	06:10	-	8217	-	8290/1613 Concellio	Auto	6.2 6.4	JBY 7/29/02	Low sensitivity. 7/29/02
P022723	7/29/02	12:12	-	8217	-	8290/1613 Concellio	Auto	7.4 E4	JBY 7/29/02	↓
P022724	7/29/02	13:20	-	8217	-	8290/1613 Concellio	Auto	5.6E5	JBY 7/29/02	Good All Methods 7/29/02
P022725	7/29/02	14:32	-	8237I	-	RS-100		5 61E6*	JBY 7/29/02	Clean CRW 7/29/02
26	7/29/02	15:17	57901	330-88-1A,D	2	12779 XAD, FILTER, RINSE		5.0 E4		lost loc. mass. date 7/29/02
27	7/29/02	16:02	57936	331-18-3	4	DF-DP220-1'-2'		8.3 E5		
28	7/29/02	16:47	57930	-4	5	DF-DP164-0-0.5'		8.5 E5		
29	7/29/02	17:36	57947	331-35-2A -7'	8	E-9/PRE DF-DP159-0-0.5'		6.6 E5		Sample removed/replaced. date 7/29/02
30	7/29/02	18:22	57947	331-35-7A -13	10 14	E-7/PRE DUPLICATE		8.0 E4		Sample removed/replaced. date 7/29/02
31	7/29/02	19:07	57930	-14	15	DF-DP177-0-0.5'		1.0 E6		
32	7/29/02	19:52	579401	331-88-1A,D -15	12	12779 XAD, FILTER, RINSE DF-DP177-0.5'		6.2 E5		Sample removed/replaced. date 7/29/02
P022733	7/29/02	20:37	57930	331-18-16	17	DF-DP177-1'-2'	AUTO	2.1 E6	JBY 7/29/02	

Transcribed from chromatographic data

Dated initials required

ConCal Due: _____
ConCal Due: _____

* (E) CRW 7/29/02

SAMPLE
DATA

TRIANGLE LABORATORIES, INC.
MATRIX SPIKE RECOVERY ANALYSIS AND COMPARISON

Project: 57930
Matrix: SOLID
Method: 161B

Isomer	T023782	T023783	T023784		Relative Percent Difference	
	ID: DF-DP177-1'-2'	ID: DF-DP177-1'-2' MS	ID: DF-DP177-1'-2'	MSD		
	Sample (pg/g)	With Spike (pg/g)	Percent Recovery	Spike Dup (pg/g)	Percent Recovery	
2378-TCDD	0.62	48.9	122	48.2	120	1.65
12378-PeCDD	2.5	244	122	252	126	3.23
123478-HxCDD	2.5	209	104	207	103	0.97
123678-HxCDD	3.3	213	105	216	107	1.89
123789-HxCDD	4.6	209	103	209	103	0.0
1234678-HpCDD	11.4	217	103	211	100	2.96
OCDD	181	601	106	508	82.3	25.2
2378-TCDF	1.1	48.5	119	48.5	119	0.0
12378-PeCDF	2.6	246	123	251	125	1.61
23478-PeCDF	2.3	259	129	265	132	2.30
123478-HxCDF	3.3	229	114	224	111	2.67
123678-HxCDF	3.6	220	109	214	106	2.79
234678-HxCDF	3.9	213	105	216	107	1.89
123789-HxCDF	5.2	219	107	215	106	0.94
1234678-HpCDF	19.0	262	122	253	118	3.33
1234789-HpCDF	4.9	223	110	220	108	1.83
OCDF	13.1	381	92.5	380	92.2	0.32

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

MILES 4.22.16
GRY_PSUM v1.11

Processed By: WJG Date: 07/28/02

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

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

TRIANGLE LABORATORIES, INC.
 Sample Results for Project 57930
 Method 1613B Full Screen Analyses (DB-5)

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```

=====
Data File          T023761          T023762          T023763          T023764
Sample ID         OPR            TLI Blank       DF-DP220-0-0,5' DF-DP220-0,5-1'

Units            pg/g          pg/g          pg/g          pg/g
Extraction Date  07/23/2002   07/23/2002   07/23/2002   07/23/2002
Analysis Date    07/25/2002   07/25/2002   07/26/2002   07/26/2002
Instrument        T             T             T             T
Matrix           SOLID        SOLID         SOLID         SOLID
Extraction Type
=====
  
```

```

=====
Analytes
2378-TCDD        24.8          < 1.0         < 1.0         < 0.99
12378-PeCDD     123           < 5.0         < 5.0         < 5.0
123478-HxCDD    104           < 5.0         < 5.0         < 5.0
123678-HxCDD    108           < 5.0         10.1          < 5.0
123789-HxCDD    105           < 5.0         (5.3)         < 5.0
1234678-HpCDD   101           < 5.0         45.8          15.9
OCDD            192           < 10          1060          352
2378-TCDF       23.1          < 1.0         22.9          7.9
12378-PeCDF     120           < 5.0         5.8           < 5.0
23478-PeCDF     126           < 5.0         13.3          < 5.0
123478-HxCDF    108           < 5.0         36.2          11.9
123678-HxCDF    110           < 5.0         15.2          5.0
234678-HxCDF    108           < 5.0         14.2          < 5.0
123789-HxCDF    110           < 5.0         < 5.0         < 5.0
1234678-HpCDF   111           < 5.0         371           115
1234789-HpCDF   109           < 5.0         11.6          < 5.0
OCDF            206           < 10          133           34.7
TOTAL TCDD      < 1.0         (13.1)        (3.2)
TOTAL PeCDD     < 5.0         8.6           < 5.0
TOTAL HxCDD     < 5.0         24.3          8.5
TOTAL HpCDD     < 5.0         92.1          32.1
TOTAL TCDF      < 1.0         429           103
TOTAL PeCDF     < 5.0         1210          299
TOTAL HxCDF     < 5.0         638           174
TOTAL HpCDF     < 5.0         595           174
  
```

Other Standards Percent Recovery Summary (% Rec)

```

37Cl-TCDD       76.0          79.7          84.8          108
  
```

Internal Standards Percent Recovery Summary (% Rec)

```

13C12-2378-TCDD 79.0          79.7          79.2          73.0
13C12-PeCDD 123 89.7          92.5          91.0          81.5
13C12-HxCDD 478 95.7          85.5          89.8          89.2
13C12-HxCDD 678 101           99.1          93.7          91.2
13C12-HpCDD 678 105           96.4          91.6          87.3
13C12-OCDD      79.1          75.7          72.4          68.0
13C12-2378-TCDF 92.1          90.3          92.6          85.6
13C12-PeCDF 123 87.1          93.2          91.3          81.5
13C12-PeCDF 234 91.2          94.6          91.8          83.4
13C12-HxCDF 478 108           98.2          104           97.7
13C12-HxCDF 678 116           107           105           103
13C12-HxCDF 234 117           104           104           103
  
```

TRIANGLE LABORATORIES, INC.
Sample Results for Project 57930
Method 1613B Full Screen Analyses (DB-5)

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```
=====
Data File          T023761          T023762          T023763          T023764
Sample ID          OPR             TLI Blank        DF-DP220-0-0,5' DF-DP220-0,5-1'

Units              pg/g            pg/g            pg/g            pg/g
Extraction Date    07/23/2002     07/23/2002     07/23/2002     07/23/2002
Analysis Date      07/25/2002     07/25/2002     07/26/2002     07/26/2002
Instrument          T               T               T               T
Matrix             SOLID           SOLID           SOLID           SOLID
Extraction Type
=====
```

```
Internal Standards Percent Recovery Summary (% Rec)
13C12-HxCDF 789    111            103            104            102
13C12-HpCDF 678    113            114            109            95.6
13C12-HpCDF 789    109            103            89.6           80.0
```

TRIANGLE LABORATORIES, INC.
 Sample Results for Project 57930
 Method 1613B Full Screen Analyses (DB-5)

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Data File	T023765	T023766	T023767	T023768
Sample ID	DF-DP220-1'-2'	DF-DP164-0-0,5'	DF-DP164-0,5'-1	DF-DP164-1'-2'
Units	pg/g	pg/g	pg/g	pg/g
Extraction Date	07/23/2002	07/23/2002	07/23/2002	07/23/2002
Analysis Date	07/26/2002	07/26/2002	07/26/2002	07/26/2002
Instrument	T	T	T	T
Matrix	SOLID	SOLID	SOLID	SOLID
Extraction Type				

Analytes	T023765	T023766	T023767	T023768
2378-TCDD	< 1.0	< 0.99	< 1.0	< 0.99
12378-PeCDD	< 5.0	< 5.0	< 5.0	< 5.0
123478-HxCDD	< 5.0	< 5.0	< 5.0	< 5.0
123678-HxCDD	< 5.0	< 5.0	< 5.0	< 5.0
123789-HxCDD	< 5.0	< 5.0	< 5.0	< 5.0
1234678-HpCDD	-18.2	23.2	6.9	< 5.0
OCDD	306	281	134	54.2
2378-TCDF	8.2	5.3	< 1.0	< 0.99
12378-PeCDF	< 5.0	< 5.0	< 5.0	< 5.0
23478-PeCDF	< 5.0	< 5.0	< 5.0	< 5.0
123478-HxCDF	11.9	< 5.0	< 5.0	< 5.0
123678-HxCDF	< 5.0	< 5.0	< 5.0	< 5.0
234678-HxCDF	< 5.0	< 5.0	< 5.0	< 5.0
123789-HxCDF	< 5.0	< 5.0	< 5.0	< 5.0
1234678-HpCDF	123	111	< 5.0	< 5.0
1234789-HpCDF	< 5.0	< 5.0	< 5.0	< 5.0
OCDF	43.1	38.4	< 10	< 9.9
TOTAL TCDD	< 1.0	< 0.99	< 1.0	< 0.99
TOTAL PeCDD	< 5.0	< 5.0	< 5.0	< 5.0
TOTAL HxCDD	< 5.0	24.0	< 5.0	< 5.0
TOTAL HpCDD	34.0	47.6	20.2	9.6
TOTAL TCDF	156	101	1.6	< 0.99
TOTAL PeCDF	420	374	< 5.0	< 5.0
TOTAL HxCDF	202	169	< 5.0	< 5.0
TOTAL HpCDF	191	176	< 5.0	< 5.0

Other Standards Percent Recovery Summary (% Rec)

37C1-TCDD	75.4	82.2	65.6	69.5
-----------	------	------	------	------

Internal Standards Percent Recovery Summary (% Rec)

13C12-2378-TCDD	74.4	82.1	73.5	70.1
13C12-PeCDD 123	80.2	72.9	74.7	71.5
13C12-HxCDD 478	87.6	95.6	92.2	85.4
13C12-HxCDD 678	93.8	97.8	94.3	87.6
13C12-HpCDD 678	83.4	88.6	90.8	81.5
13C12-OCDD	68.4	55.2	61.9	53.1
13C12-2378-TCDF	88.2	101	85.5	84.4
13C12-PeCDF 123	81.2	77.6	76.3	72.1
13C12-PeCDF 234	80.8	74.4	75.7	71.3
13C12-HxCDF 478	97.7	115	103	97.4
13C12-HxCDF 678	103	115	112	104
13C12-HxCDF 234	104	112	109	101

TRIANGLE LABORATORIES, INC.
Sample Results for Project 57930
Method 1613B Full Screen Analyses (DB-5)

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```
=====
Data File      T023765      T023766      T023767      T023768
Sample ID      DF-DP220-1'-2'  DF-DP164-0-0,5'  DF-DP164-0,5'-1  DF-DP164-1'-2'

Units          pg/g          pg/g          pg/g          pg/g
Extraction Date 07/23/2002   07/23/2002   07/23/2002   07/23/2002
Analysis Date  07/26/2002   07/26/2002   07/26/2002   07/26/2002
Instrument      T             T             T             T
Matrix         SOLID        SOLID        SOLID        SOLID
Extraction Type
```

```
=====
Internal Standards Percent Recovery Summary (% Rec)
13C12-HxCDF 789    99.9    109    103    96.0
13C12-HpCDF 678    94.6    101    98.9    90.4
13C12-HpCDF 789    79.1    90.7    91.2    80.5
```

TRIANGLE LABORATORIES, INC.
 Sample Results for Project 57930
 Method 1613B Full Screen Analyses (DB-5)

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Data File	T023769	T023770	T023775	T023776
Sample ID	DF-DP159-0-0,5'	DF-DP159-0.5'-1	DF-DP159-1'-2'	DF-DP157-0-0,5'
Units	pg/g	pg/g	pg/g	pg/g
Extraction Date	07/23/2002	07/23/2002	07/23/2002	07/23/2002
Analysis Date	07/26/2002	07/26/2002	07/26/2002	07/26/2002
Instrument	T	T	T	T
Matrix	SOLID	SOLID	SOLID	SOLID
Extraction Type				

Analytes	T023769	T023770	T023775	T023776
2378-TCDD	2.8	1.1	< 0.99	< 0.99
12378-PeCDD	8.4	< 5.0	< 5.0	< 5.0
123478-HxCDD	5.3	< 5.0	< 5.0	< 5.0
123678-HxCDD	40.9	< 5.0	< 5.0	< 5.0
123789-HxCDD	28.3	< 5.0	< 5.0	< 5.0
1234678-HpCDD	327	17.3	5.8	13.2
OCDD	5580 E	876	455	294
2378-TCDF	9.6	< 0.99	< 0.99	< 0.99
12378-PeCDF	< 5.0	< 5.0	< 5.0	< 5.0
23478-PeCDF	10.7	< 5.0	< 5.0	< 5.0
123478-HxCDF	43.0	< 5.0	< 5.0	< 5.0
123678-HxCDF	24.7	< 5.0	< 5.0	< 5.0
234678-HxCDF	24.1	< 5.0	< 5.0	< 5.0
123789-HxCDF	< 5.0	< 5.0	< 5.0	< 5.0
1234678-HpCDF	1560	152	11.1	46.5
1234789-HpCDF	16.3	< 5.0	< 5.0	< 5.0
OCDF	514	38.4	< 9.9	13.7
TOTAL TCDD	17.4	1.1	< 0.99	< 0.99
TOTAL PeCDD	82.3	5.9	< 5.0	< 5.0
TOTAL HxCDD	303	26.8	< 5.0	9.5
TOTAL HpCDD	635	37.6	12.8	30.9
TOTAL TCDF	175	7.1	< 0.99	19.8
TOTAL PeCDF	644	24.4	< 5.0	80.6
TOTAL HxCDF	966	74.0	5.1	63.3 X
TOTAL HpCDF	2570	241	17.4	71.6

Other Standards Percent Recovery Summary (% Rec)

37C1-TCDD	94.1	69.3	65.6	70.1
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Internal Standards Percent Recovery Summary (% Rec)

13C12-2378-TCDD	88.3	66.4	64.1	66.9
13C12-PeCDD 123	73.3	75.8	59.8	60.0
13C12-HxCDD 478	96.3	82.9	83.8	87.3
13C12-HxCDD 678	94.9	91.8	86.2	93.8
13C12-HpCDD 678	81.3	90.2	74.5	71.9
13C12-OCDD	51.6	69.7	42.8	42.0
13C12-2378-TCDF	110	76.5	73.9	79.0
13C12-PeCDF 123	79.9	74.8	61.9	63.5
13C12-PeCDF 234	75.3	75.8	61.1	60.5
13C12-HxCDF 478	114	87.7	94.8	100
13C12-HxCDF 678	111	101	107	109
13C12-HxCDF 234	109	101	101	109

TRIANGLE LABORATORIES, INC.
Sample Results for Project 57930
Method 1613B Full Screen Analyses (DB-5)

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```
=====
Data File      T023769      T023770      T023775      T023776
Sample ID      DF-DP159-0-0,5'  DF-DP159-0.5'-1  DF-DP159-1'-2'  DF-DP157-0-0,5'

Units          pg/g          pg/g          pg/g          pg/g
Extraction Date 07/23/2002   07/23/2002   07/23/2002   07/23/2002
Analysis Date  07/26/2002   07/26/2002   07/26/2002   07/26/2002
Instrument      T             T             T             T
Matrix         SOLID        SOLID         SOLID         SOLID
Extraction Type

=====
```

```
Internal Standards Percent Recovery Summary (% Rec)
13C12-HxCDF 789      109          96.7         92.7         96.6
13C12-HpCDF 678      102          99.2         84.6         85.4
13C12-HpCDF 789      82.1         91.7         74.0         71.0
```

TRIANGLE LABORATORIES, INC.
 Sample Results for Project 57930
 Method 1613B Full Screen Analyses (DB-5)

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Data File	T023778	T023780	T023781	T023782
Sample ID	DF-DP157-1'-2'	DF-DP177-0-0,5'	DF-DP177-0,5'-1	DF-DP177-1'-2'
Units	pg/g	pg/g	pg/g	pg/g
Extraction Date	07/23/2002	07/23/2002	07/23/2002	07/23/2002
Analysis Date	07/26/2002	07/26/2002	07/26/2002	07/26/2002
Instrument	T	T	T	T
Matrix	SOLID	SOLID	SOLID	SOLID
Extraction Type				

Analytes				
2378-TCDD	< 1.0	< 1.0	< 0.99	< 0.99
12378-PeCDD	< 5.0	< 5.0	< 5.0	< 5.0
123478-HxCDD	< 5.0	< 5.0	< 5.0	< 5.0
123678-HxCDD	< 5.0	< 5.0	< 5.0	< 5.0
123789-HxCDD	< 5.0	< 5.0	< 5.0	< 5.0
1234678-HpCDD	8.4	11.9	6.1	11.4
OCDD	227	270	133	181
2378-TCDF	< 1.0	1.2	< 0.99	1.1
12378-PeCDF	< 5.0	< 5.0	< 5.0	< 5.0
23478-PeCDF	< 5.0	< 5.0	< 5.0	< 5.0
123478-HxCDF	< 5.0	< 5.0	< 5.0	< 5.0
123678-HxCDF	< 5.0	< 5.0	< 5.0	< 5.0
234678-HxCDF	< 5.0	< 5.0	< 5.0	< 5.0
123789-HxCDF	< 5.0	< 5.0	< 5.0	5.2
1234678-HpCDF	< 5.0	82.4	25.7	19.0
1234789-HpCDF	< 5.0	< 5.0	< 5.0	< 5.0
OCDF	< 10	28.7	10.4	13.1
TOTAL TCDD	(1.6)	(1.1)	< 0.99	1.1
TOTAL PeCDD	< 5.0	< 5.0	< 5.0	< 5.0
TOTAL HxCDD	< 5.0	15.8	< 5.0	12.4
TOTAL HpCDD	22.3	28.8	13.0	23.7
TOTAL TCDF	1.9	83.7	44.6	14.6
TOTAL PeCDF	(11.4)	222	118	38.9
TOTAL HxCDF	< 5.0	131	64.8	37.5
TOTAL HpCDF	< 5.0	125	39.5	32.8

Other Standards Percent Recovery Summary (% Rec)

37C1-TCDD	62.6	70.6	68.4	67.0
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Internal Standards Percent Recovery Summary (% Rec)

13C12-2378-TCDD	63.2	64.9	65.8	66.8
13C12-PeCDD 123	54.2	52.1	55.6	55.8
13C12-HxCDD 478	80.4	76.7	88.1	84.2
13C12-HxCDD 678	85.2	83.1	89.1	90.8
13C12-HpCDD 678	57.6	51.1	61.0	56.6
13C12-OCDD	30.5	24.4	30.4	26.7
13C12-2378-TCDF	73.6	75.3	79.4	78.8
13C12-PeCDF 123	56.6	57.7	59.6	59.0
13C12-PeCDF 234	56.0	51.0	57.3	57.1
13C12-HxCDF 478	97.5	96.1	96.1	95.3
13C12-HxCDF 678	109	104	107	105
13C12-HxCDF 234	102	89.6	108	108

TRIANGLE LABORATORIES, INC.
Sample Results for Project 57930
Method 1613B Full Screen Analyses (DB-5)

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Data File	T023778	T023780	T023781	T023782
Sample ID	DF-DP157-1'-2'	DF-DP177-0-0,5'	DF-DP177-0,5'-1	DF-DP177-1'-2'
Units	pg/g	pg/g	pg/g	pg/g
Extraction Date	07/23/2002	07/23/2002	07/23/2002	07/23/2002
Analysis Date	07/26/2002	07/26/2002	07/26/2002	07/26/2002
Instrument	T	T	T	T
Matrix	SOLID	SOLID	SOLID	SOLID
Extraction Type				

Internal Standards Percent Recovery Summary (% Rec)

13C12-HxCDF 789	85.7	82.6	93.4	89.8
13C12-HpCDF 678	75.6	71.1	74.2	72.7
13C12-HpCDF 789	53.5	53.3	61.5	56.2

TRIANGLE LABORATORIES, INC.
Sample Results for Project 57930
Method 1613B Full Screen Analyses (DB-5)

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```
=====
Data File      T023783      T023784
Sample ID     DF-DP177-1'-2' DF-DP177-1'-2'
              MS          MSD
Units         pg/g          pg/g
Extraction Date 07/23/2002    07/23/2002
Analysis Date  07/26/2002    07/26/2002
Instrument      T              T
Matrix         SOLID          SOLID
Extraction Type
=====
```

```
=====
Analytes
2378-TCDD      48.9          48.2
12378-PeCDD   244          252
123478-HxCDD  209          207
123678-HxCDD  213          216
123789-HxCDD  209          209
1234678-HpCDD 217          211
OCDD          601          508
2378-TCDF     48.5          48.5
12378-PeCDF   246          251
23478-PeCDF   259          265
123478-HxCDF  229          224
123678-HxCDF  220          214
234678-HxCDF  213          216
123789-HxCDF  219          215
1234678-HpCDF 262          253
1234789-HpCDF 223          220
OCDF          381          380
=====
```

Other Standards Percent Recovery Summary (% Rec)
37C1-TCDD 65.8 62.5

Internal Standards Percent Recovery Summary (% Rec)

13C12-2378-TCDD	66.7	64.3
13C12-PeCDD 123	55.4	54.0
13C12-HxCDD 478	90.7	91.0
13C12-HxCDD 678	93.6	92.6
13C12-HpCDD 678	53.4	54.2
13C12-OCDD	24.7	24.1
13C12-2378-TCDF	77.5	76.5
13C12-PeCDF 123	58.5	57.9
13C12-PeCDF 234	55.9	55.0
13C12-HxCDF 478	85.4	112
13C12-HxCDF 678	95.5	125 ***
13C12-HxCDF 234	116	114
13C12-HxCDF 789	92.0	92.4
13C12-HpCDF 678	56.5	74.7
13C12-HpCDF 789	50.0	53.9

(Concentration of GC peaks out of theoretical isotopic abundance ratio range expressed as a detection limit).

Minimum levels are reported for non-detected GC peaks.

***** = INTERFERENCE

This report is in accordance with Method 1613B requirements and may not exactly match the sample topsheets.

TRIANGLE LABORATORIES OF RTP, INC.
Sample Results for Project 57930
Method 1613B TCDD/TCDF Analysis (DB-225)

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```
=====
Data File      P022693      P022694      P022727      P022728
Sample ID      DF-DP220-0-0,5'  DF-DP220-0,5-1'  DF-DP220-1'-2'  DF-DP164-0-0,5'

Units          pg/g          pg/g          pg/g          pg/g
Extraction Date 07/23/2002   07/23/2002   07/23/2002   07/23/2002
Analysis Date   07/26/2002   07/26/2002   07/29/2002   07/29/2002
Instrument       P             P             P             P
Matrix          SOLID        SOLID        SOLID        SOLID
Extraction Type
=====
```

```
Analytes
2378-TCDF      13.3         5.0          3.9          2.5
```

```
Internal Standards Percent Recovery Summary (% Rec)
13C12-2378-TCDF  87.0         79.7         68.7         76.5
```

TRIANGLE LABORATORIES OF RTP, INC.
Sample Results for Project 57930
Method 1613B TCDD/TCDF Analysis (DB-225)

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```
=====
Data File          P022712          P022731          P022733
Sample ID         DF-DP159-0-0,5' DF-DP177-0-0,5' DF-DP177-1'-2'

Units             pg/g             pg/g             pg/g
Extraction Date  07/23/2002     07/23/2002     07/23/2002
Analysis Date    07/27/2002     07/29/2002     07/29/2002
Instrument        P               P               P
Matrix           SOLID          SOLID           SOLID
Extraction Type
=====
```

```
Analytes
2378-TCDF          7.9             (1.0)           < 0.99
```

Internal Standards Percent Recovery Summary (% Rec)

```
13C12-2378-TCDF  106             56.9            63.5
```

```
=====
(Concentration of GC peaks out of theoretical isotopic
abundance ratio range expressed as a detection limit).
```

Minimum levels are reported for non-detected GC peaks.

***** = INTERFERENCE

Martin & Slagle

TLI Project: 57930
 Client Sample: OPR

1613, Revision B PCDD/PCDF Analysis (c)
 Analysis File: T023761

Client Project:	Kuhlman Electric	Date Received:	//	Spike File:	SP161B2S
Sample Matrix:	SOLID	Date Extracted:	07/23/2002	ICal:	TF5612B
TLI ID:	OPR	Date Analyzed:	07/25/2002	ConCal:	TB23758
Sample Size:	10.000 g	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T023762	% Lipid:	n/a
GC Column:	DB-5	Analyst:	VSC	% Solids:	n/a

Analytes	Conc. (pp/g)	DL	Ratio	RT	RRT	Flags
2,3,7,8-TCDD	24.8		0.79	27:26	1.001	---
1,2,3,7,8-PeCDD	123		1.57	31:35	1.001	---
1,2,3,4,7,8-HxCDD	104		1.24	34:41	1.000	---
1,2,3,6,7,8-HxCDD	108		1.26	34:47	1.000	---
1,2,3,7,8,9-HxCDD	105		1.23	35:06	1.010	---
1,2,3,4,6,7,8-HpCDD	101		1.03	38:07	1.000	---
1,2,3,4,6,7,8,9-OCDD	192		0.83	41:55	1.000	---
2,3,7,8-TCDF	23.1		0.83	26:44	1.001	---
1,2,3,7,8-PeCDF	120		1.46	30:35	1.000	---
2,3,4,7,8-PeCDF	126		1.48	31:16	1.001	---
1,2,3,4,7,8-HxCDF	108		1.24	33:59	1.000	---
1,2,3,6,7,8-HxCDF	110		1.24	34:05	1.000	---
2,3,4,6,7,8-HxCDF	108		1.26	34:35	1.000	---
1,2,3,7,8,9-HxCDF	110		1.26	35:22	1.000	---
1,2,3,4,6,7,8-HpCDF	111		1.07	37:03	1.000	---
1,2,3,4,7,8,9-HpCDF	109		1.05	38:38	1.000	---
1,2,3,4,6,7,8,9-OCDF	206		0.91	42:07	1.005	---

Martin & Slagle

TLI Project: 57930
 Client Sample: OPR

1613, Revision B PCDD/PCDF Analysis (c)
 Analysis File: T023761

Internal Standards	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	RRT	Flags
¹³ C ₁₂ -2,3,7,8-TCDD	158	79.0	20%-175%	0.79	27:24	1.007	—
¹³ C ₁₂ -1,2,3,7,8-PeCDD	179	89.7	21%-227%	1.48	31:34	1.160	—
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	191	95.7	21%-193%	1.22	34:40	0.988	—
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	202	101	25%-163%	1.21	34:46	0.991	—
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	209	105	26%-166%	1.02	38:06	1.086	—
¹³ C ₁₂ -1,2,3,4,6,7,8,9-OCDD	317	79.1	13%-199%	0.87	41:54	1.194	—
¹³ C ₁₂ -2,3,7,8-TCDF	184	92.1	22%-152%	0.73	26:43	0.982	—
¹³ C ₁₂ -1,2,3,7,8-PeCDF	174	87.1	21%-192%	1.49	30:35	1.124	—
¹³ C ₁₂ -2,3,4,7,8-PeCDF	182	91.2	13%-328%	1.45	31:15	1.148	—
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	217	108	19%-202%	0.52	33:58	0.968	—
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	232	116	21%-159%	0.51	34:04	0.971	—
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	234	117	22%-176%	0.51	34:34	0.985	—
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	221	111	17%-205%	0.52	35:22	1.008	—
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	225	113	21%-158%	0.43	37:02	1.056	—
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	217	109	20%-186%	0.44	38:38	1.101	—

Cleanup Standard	Conc. (pg/g)	% Recovery	QC Limits	RT	RRT	Flags
³⁷ Cl ₄ -2,3,7,8-TCDD	15.2	76.0	31%-191%	27:25	1.007	—

Recovery Standards	Ratio	RT	Flags
¹³ C ₁₂ -1,2,3,4-TCDD	0.82	27:13	—
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.20	35:05	—

Data Reviewer: DEM 07/26/2002

InitialDate...

Data Review By:

QAM 7/26/02

Channel specific noise levels computed from 'NL' heights.

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07/25/2002

Listing of T023761B.dbf
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	0.17	0.10	0.07		
	DC SN	24:17	0.79	0.43		0.909	
		25:45	0.68	1.88	0.76	1.12	0.964
		26:19	RO 1.04	2.51	1.28	1.23	0.985
		26:44	0.83	59.17	26.77	32.40	1.001 2378-TCDF AN
304-306		3 Peaks		63.56			
13C12-TCDF		0.65-0.89			0.944-1.131		
316-318	DC NL	Height	0.15	0.07	0.08		
		25:41	0.80	2.45	1.09	1.36	0.961
		26:00	0.86	1.30	0.60	0.70	0.973
		26:20	RO 1.05	4.87	2.49	2.38	0.986
		26:43	0.73	483.38	204.74	278.64	1.000 13C12-2378-TCDF ISO
			Height	113.09	47.98	65.11	
	DC SN	27:47	RO 1.33	1.07			1.040
316-318		4 Peaks		492.00			

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

TCDD		0.65-0.89			0.905-1.042		
320-322	DC NL	Height	0.13	0.06	0.07		
	DC SN	25:03	RO 2.50	0.49		0.914	
	DC SN	25:34	RO 0.50	0.21		0.933	
		27:26	0.79	46.97	20.70	26.27	1.001 2378-TCDD AN
	DC SN	27:49	RO 1.57	0.36		1.015	
	DC SN	27:57	RO 5.20	0.31		1.020	
	DC SN	28:05	RO 1.23	0.49		1.025	
320-322		1 Peak		46.97			
37C1-TCDD					0.927-1.073		
328	DC NL	Height	0.06	0.06			
	DC WL	24:55		0.33		0.909	
	DC WL	25:00		0.17		0.912	
	DC WL	25:05		0.12		0.915	
	DC WL	25:12		0.17		0.920	
		27:25		33.62	33.62	1.001	37C1-TCDD CLS
		27:41		0.18	0.18	1.010	
		27:50		0.49	0.49	1.016	
		28:04		0.35	0.35	1.024	
	DC SN	28:16		0.23		1.032	
	DC SN	28:23		0.20		1.036	
	DC SN	28:33		0.22		1.042	
328		4 Peaks		34.64			
13C12-TCDD		0.65-0.89			0.920-1.066		
332-334	DC NL	Height	0.24	0.16	0.08		

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	RT	RO	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
		26:16		1.02	0.97			0.959			
		27:13		0.82	400.24	180.43	219.81	0.993	13C12-1234-TCDD	RS1	
		27:24		0.79	356.79	157.34	199.45	1.000	13C12-2378-TCDD	IS1	
				Height	85.05	37.14	47.91				
		27:42	RO	0.58	3.99	1.46	2.53	1.011			
		27:53	RO	3.51	1.67	1.30	0.37	1.018			
DC	SN	28:01	RO	1.37	1.66			1.023			
DC	SN	28:09	RO	0.61	0.50			1.027			
DC	SN	28:19	RO	1.00	0.86			1.033			
DC	SN	28:24	RO	0.57	0.85			1.036			
332-334		4 Peaks			762.69						

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

PeCDF	DC	NL	RT	RO	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
					1.32-1.78			0.911-1.036				
340-342					Height	0.13	0.05	0.08				
			29:45	RO	1.06	2.62	1.35	1.27	0.952			
			30:12		1.66	1.86	1.16	0.70	0.966			J
			30:35		1.46	274.72	162.86	111.86	1.000	12378-PeCDF	AN	
			30:53		1.56	6.13	3.74	2.39	0.988			J
			31:16		1.48	299.88	179.15	120.73	1.001	23478-PeCDF	AN	
	DC	SN	31:52		1.52	0.58			1.020			
			32:14	RO	1.92	1.11	0.73	0.38	1.031			
340-342			6 Peaks			586.32						

13C12-PeCDF	DC	NL	RT	RO	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
					1.32-1.78			0.807-1.127				
352-354					Height	0.11	0.05	0.06				
			29:44		1.35	4.16	2.39	1.77	0.951			
			30:13		1.65	2.70	1.68	1.02	0.967			
			30:35		1.49	404.91	242.23	162.68	1.000	13C12-PeCDF	123 IS2	
					Height	108.67	65.57	43.10				
			30:51		1.69	7.85	4.93	2.92	0.987			
			31:15		1.45	432.49	255.89	176.60	1.000	13C12-PeCDF	234 IS3	
					Height	119.48	70.00	49.48				
			31:41	RO	0.61	2.25	0.85	1.40	1.014			
	DC	SN	31:55		1.41	0.65			1.021			
			32:13	RO	1.15	4.42	2.36	2.06	1.031			
352-354			7 Peaks			858.78						

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

PeCDD	DC	NL	RT	RO	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
					1.32-1.78			0.940-1.021				
356-358					Height	0.12	0.07	0.05				
			29:45		1.78	0.25			0.942			
			30:53	RO	1.17	0.39			0.978			
			31:15	RO	1.05	0.43			0.990			
			31:35		1.57	190.56	116.47	74.09	1.001	12378-PeCDD	AN	
			31:58		1.78	0.50	0.32	0.18	1.013			J
			32:10	RO	1.04	0.51	0.26	0.25	1.019			
356-358			3 Peaks			191.57						

Compound/

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

13C12-PeCDD		1.32-1.78		0.735-1.052	
368-370	DC NL	Height	0.14	0.08	0.06
		30:31	1.43	0.56	0.23 0.967
		30:39 RO	1.26	1.72	0.76 0.971
		31:34	1.48	298.27	177.77 120.50 1.000 13C12-PeCDD 123 IS4
		Height	88.18	51.78	36.40
		31:53 RO	0.74	1.93	0.82 1.11 1.010
		32:11 RO	1.04	0.53	0.27 0.26 1.020
		32:19 RO	0.41	0.58	0.17 0.41 1.024
368-370	6 Peaks		303.59		

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

HxCDF		1.05-1.43		0.929-1.007	
374-376	DC NL	Height	0.23	0.12	0.11
		33:08 RO	1.93	1.20	0.79 0.41 0.937
		33:59	1.24	268.54	148.56 119.98 1.000 123478-HxCDF AN
		34:05	1.24	302.51	167.73 134.78 1.000 123678-HxCDF AN
		34:35	1.26	277.32	154.57 122.75 1.000 234678-HxCDF AN
		34:47	1.17	1.52	0.82 0.70 0.984
	DC SN	34:54 RO	1.95	0.59	0.987
		35:22	1.26	233.93	130.38 103.55 1.000 123789-HxCDF AN
	DC WH	35:41 RO	3.71	0.80	1.009
	DC WH	35:51 RO	0.42	0.27	1.014
374-376	6 Peaks		1,085.02		

13C12-HxCDF		0.43-0.59		0.879-1.105	
384-386	DC NL	Height	0.25	0.17	0.08
		33:09	0.44	1.76	0.54 1.22 0.937
		33:58	0.52	441.83	150.32 291.51 1.000 13C12-HxCDF 478 IS5
		Height	137.16	45.65	91.51
		34:04	0.51	479.13	161.90 317.23 1.000 13C12-HxCDF 678 IS6
		Height	137.49	46.27	91.22
		34:34	0.51	472.10	160.20 311.90 1.000 13C12-HxCDF 234 IS7
		Height	139.34	47.15	92.19
	DC SN	34:52 RO	0.37	1.23	0.986
	DC SN	35:01	0.46	0.92	0.990
	DC SN	35:06	0.47	0.87	0.992
		35:22	0.52	374.06	127.78 246.28 1.000 13C12-HxCDF 789 IS8
		Height	96.01	32.50	63.51
		35:39 RO	1.29	2.22	1.25 0.97 1.008
	DC SN	35:50 RO	0.75	0.49	1.013
384-386	6 Peaks		1,771.10		

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

HxCDD		1.05-1.43		0.959-1.013	
390-392	DC NL	Height	0.12	0.05	0.07
	DC SN	34:34 RO	2.55	0.39	0.994
		34:41	1.24	161.31	89.27 72.04 1.000 123478-HxCDD AN
		34:47	1.26	186.22	103.66 82.56 1.000 123678-HxCDD AN
		35:06	1.23	183.03	100.79 82.24 1.010 123789-HxCDD AN

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.

390-392 DC WH 35:20 RO 2.58 1.29 1.016
3 Peaks 530.56

13C12-HxCDD 1.05-1.43 0.983-1.041
402-404 DC NL Height 0.14 0.08 0.06
34:09 RO 1.83 1.30 0.84 0.46 0.985
34:40 1.22 288.58 158.36 130.22 1.000 13C12-HxCDD 478 IS9
Height 93.02 51.23 41.79
34:46 1.21 332.89 182.37 150.52 1.000 13C12-HxCDD 678 IS10
Height 97.01 53.58 43.43
35:05 1.20 343.86 187.79 156.07 1.012 13C12-HxCDD 789 RS2
35:24 RO 0.45 1.13 0.35 0.78 1.021
35:32 RO 0.91 0.63 0.30 0.33 1.025
402-404 6 Peaks 968.39

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

HpCDF 0.88-1.20 0.955-1.005
408-410 DC NL Height 0.18 0.09 0.09
37:03 1.07 240.47 124.04 116.43 1.000 1234678-HpCDF AN
37:21 RO 0.33 0.97 0.24 0.73 0.967
DC SN 37:30 RO 0.84 1.01 0.971
38:38 1.05 182.87 93.74 89.13 1.000 1234789-HpCDF AN
DC WH 39:01 RO 1.47 1.21 1.010
408-410 3 Peaks 424.31

13C12-HpCDF 0.37-0.51 0.856-1.141
418-420 DC NL Height 0.19 0.11 0.08
37:02 0.43 322.38 97.19 225.19 1.000 13C12-HpCDF 678 IS11
Height 83.40 25.11 58.29
37:21 0.38 0.83 0.23 0.60 0.967
DC SN 37:27 RO 0.10 1.00 0.969
38:38 0.44 250.24 76.38 173.86 1.000 13C12-HpCDF 789 IS12
Height 55.58 17.10 38.48
38:55 RO 0.62 0.68 0.26 0.42 1.007
DC SN 38:57 RO 0.16 1.16 1.008
DC SN 39:08 RO 0.73 0.83 1.013
418-420 4 Peaks 574.13

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

HpCDD 0.88-1.20 0.976-1.005
424-426 DC NL Height 0.16 0.09 0.07
38:07 1.03 133.11 67.60 65.51 1.000 1234678-HpCDD AN
DC WH 38:29 RO 0.41 0.38 1.010
DC WH 38:40 RO 3.00 0.56 1.015
424-426 1 Peak 133.11

13C12-HpCDD 0.88-1.20 0.868-1.078
436-438 DC NL Height 0.16 0.09 0.07
37:18 RO 0.78 0.89 0.39 0.50 0.979
38:06 1.02 283.55 143.06 140.49 1.000 13C12-HpCDD 678 IS13
Height 67.57 34.51 33.06

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.

436-438 2 Peaks 284.44

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

OCDF			0.76-1.02				0.952-1.048		
442-444	DC	NL	Height	0.15	0.07		0.08		
	DC	WL	37:21 RO	0.68			0.891		
	DC	WL	37:46 RO	0.42			0.901		
			42:07	0.91	253.14	120.69	132.45	1.005	OCDF AN
			42:30 RO	1.32	1.02	0.58	0.44	1.014	
	DC	SN	42:48 RO	0.44	0.46			1.021	
	DC	SN	43:05	0.78	0.16			1.028	

442-444 2 Peaks 254.16

OCDD			0.76-1.02				0.952-1.048		
458-460	DC	NL	Height	0.12	0.06		0.06		
			41:55	0.83	196.75	89.46	107.29	1.000	OCDD AN
			42:17	0.83	0.44	0.20	0.24	1.009	

458-460 2 Peaks 197.19

13C12-OCDD			0.76-1.02				0.996-1.004		
470-472	DC	NL	Height	0.12	0.06		0.06		
			41:54	0.87	403.89	188.02	215.87	1.000	13C12-OCDD IS14
			Height	81.47	38.39		43.08		

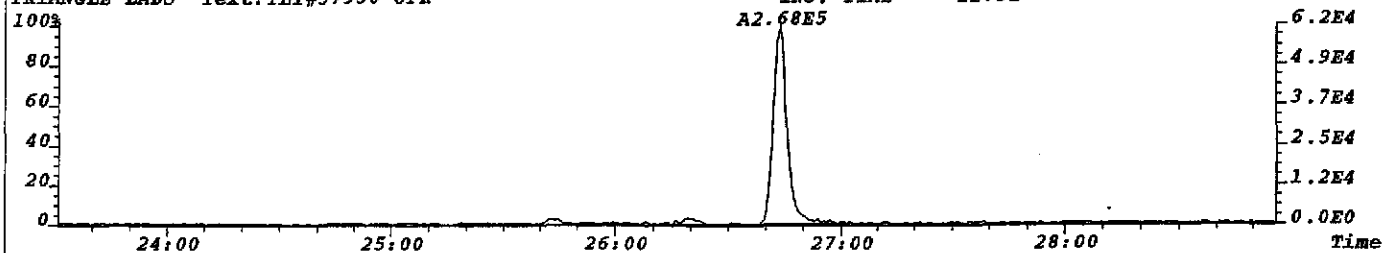
470-472 1 Peak 403.89

Column Description..... "Why" Code Description..... QC Log Desc.....

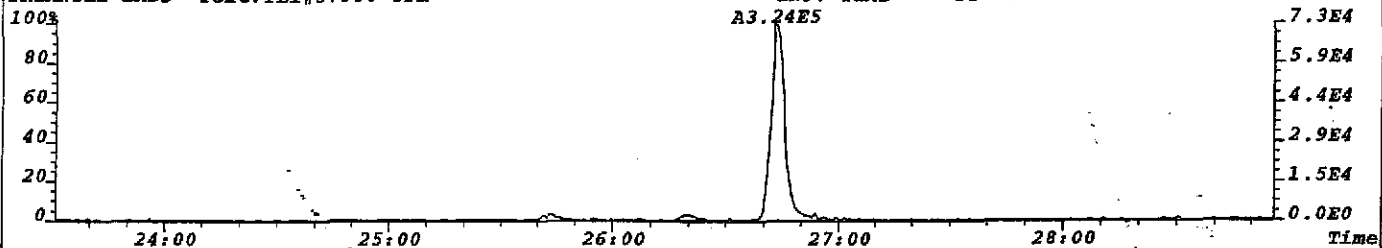
M_Z	-Nominal Ion Mass(es)	WL	-Below Retention Time Window	A	-Peak Added
..RT.	-Retention Time (mm:ss)	WH	-Above Retention Time Window	K	-Peak Kept
Rat.1	-Ratio of M/M+2 Ions	SN	-Below Signal to Noise Level	D	-Peak Deleted
OK	-RO=Ratio Outside Limits	<M	-Below Method Detection Limit	T	-Time Changed
Rel.RT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

*** End of Report ***

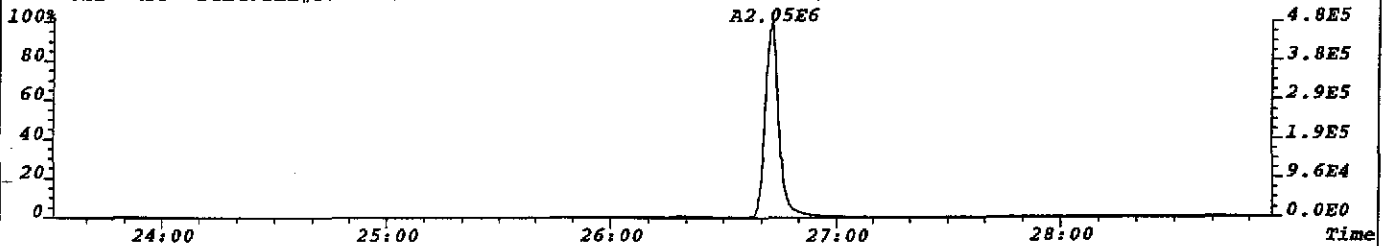
File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:127
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,508.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



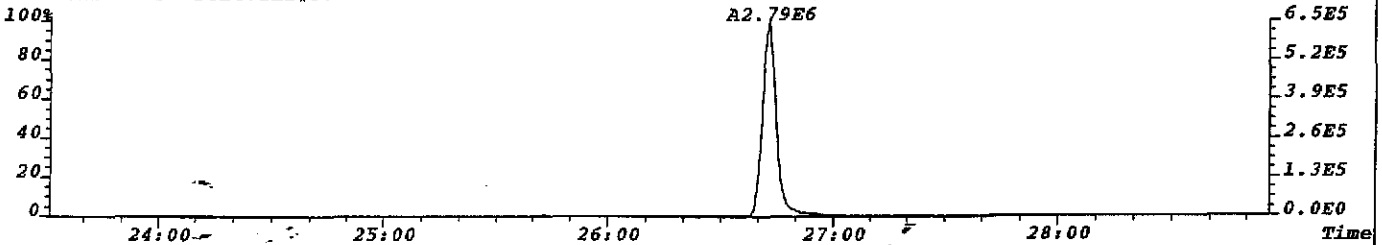
File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:82
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



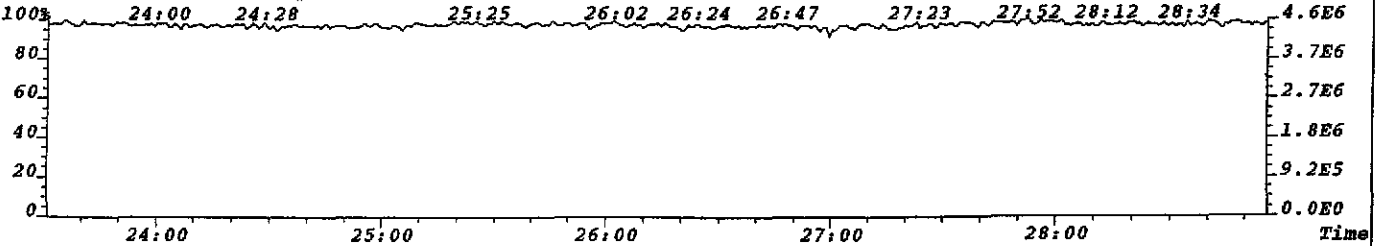
File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:82
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



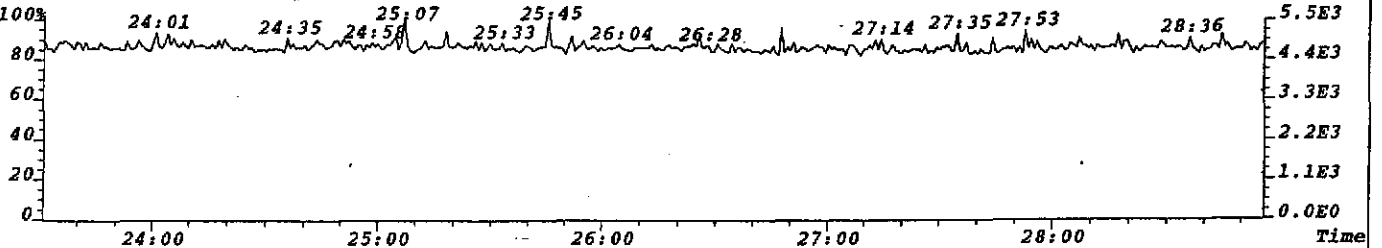
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317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,416.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



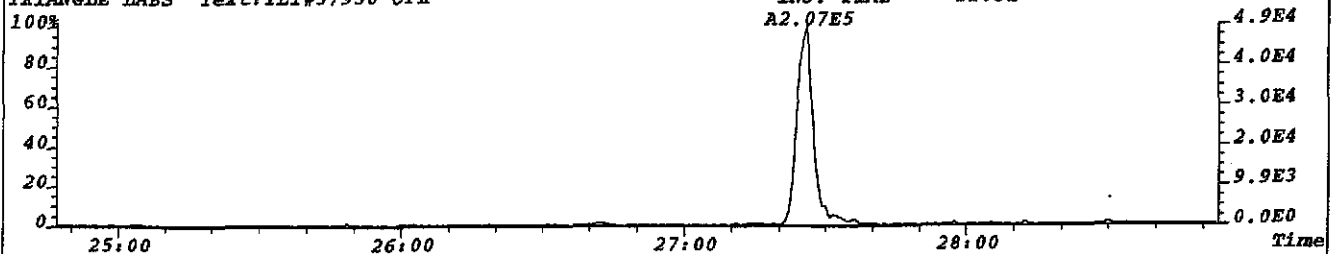
File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



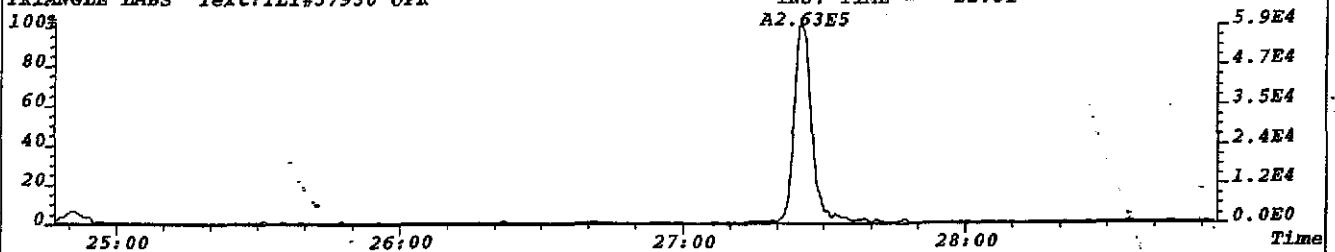
File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



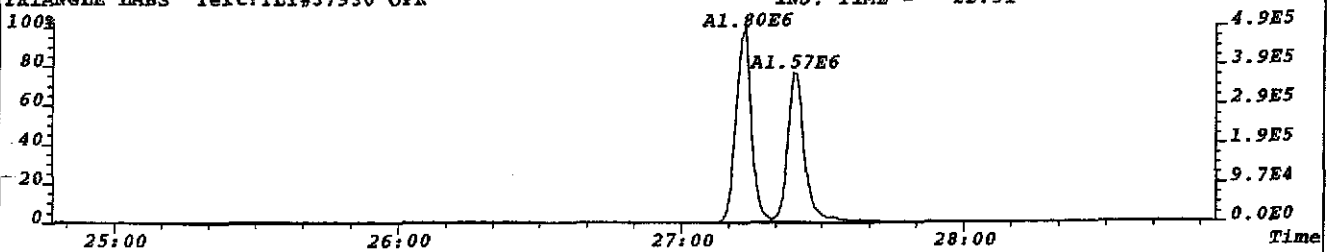
File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:74
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,296.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



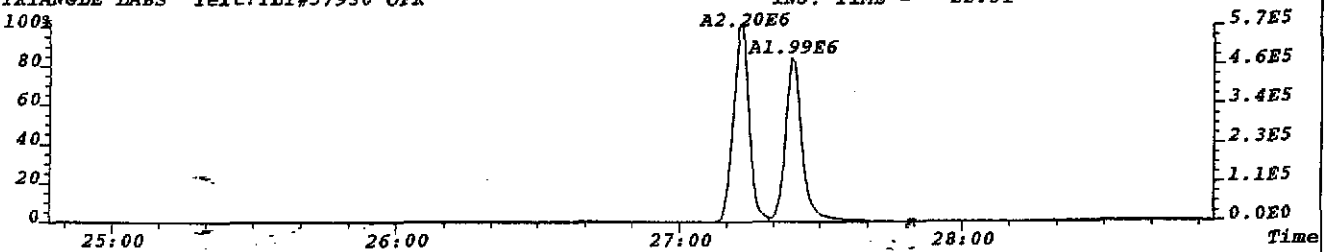
File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:86
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,344.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



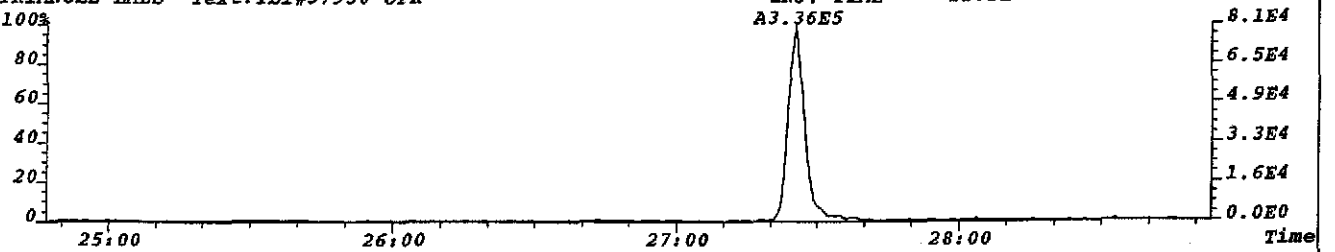
File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:204
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,816.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



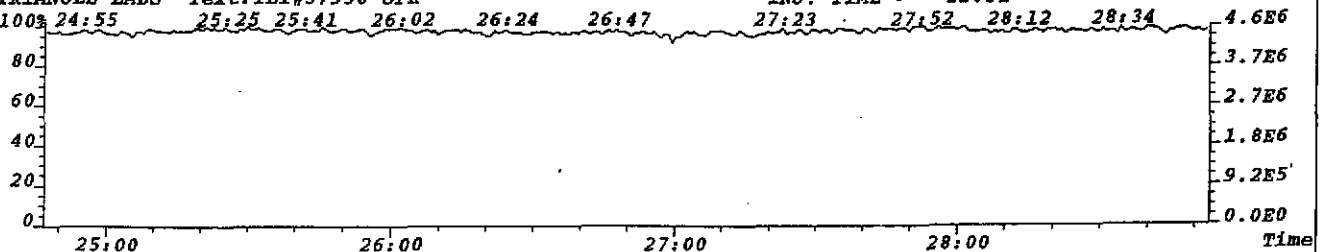
File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:101
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,404.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



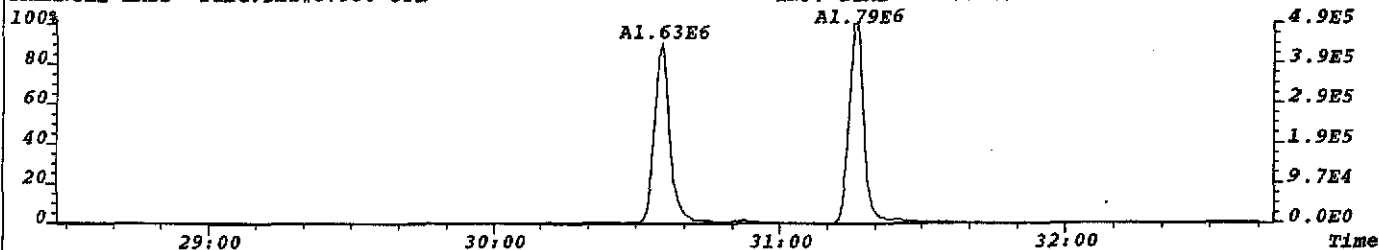
File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:80
330.9792 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,320.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



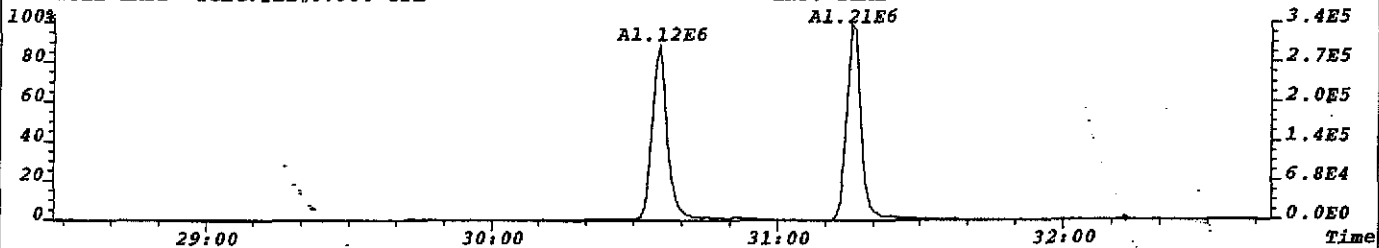
File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



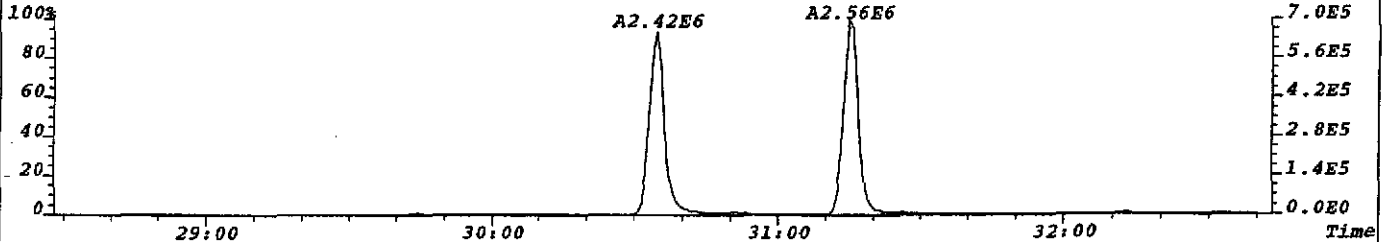
File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:68
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,272.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



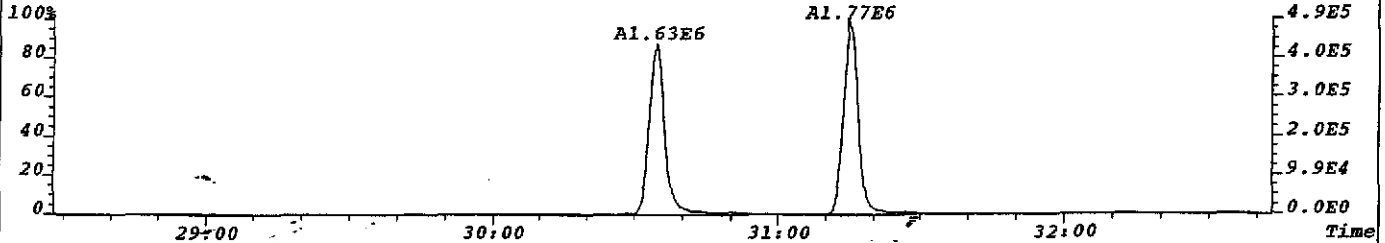
File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:96
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,384.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



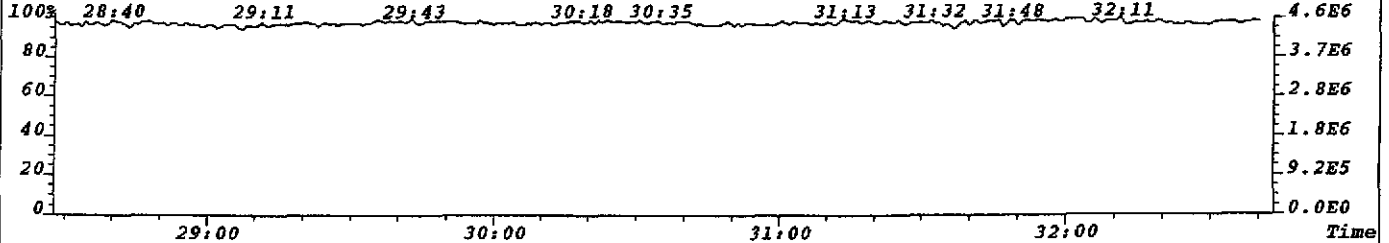
File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:62
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,248.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



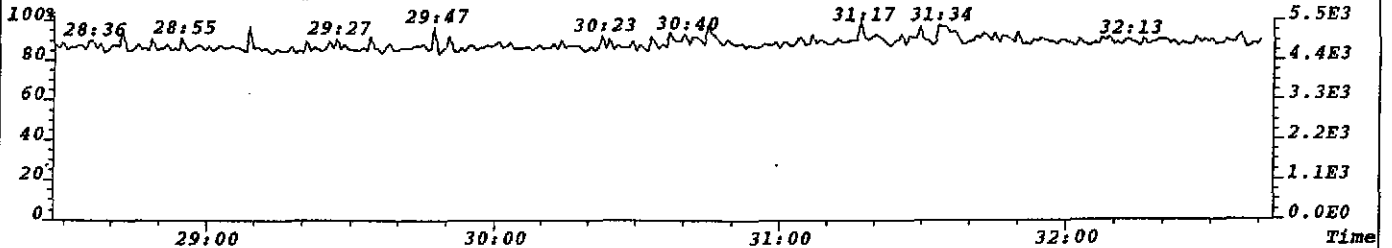
File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:81
353.9970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,324.0,1.00%,F,T) Exp:NDB5US
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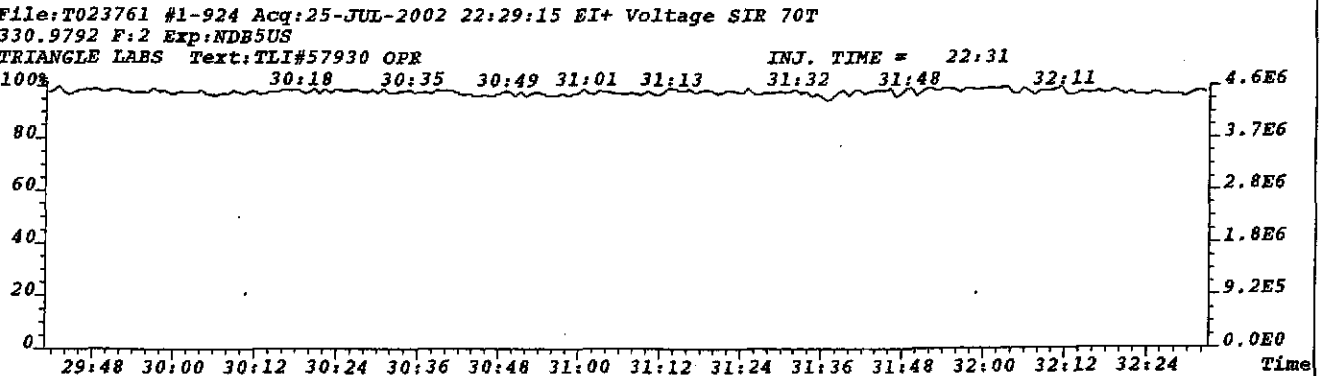
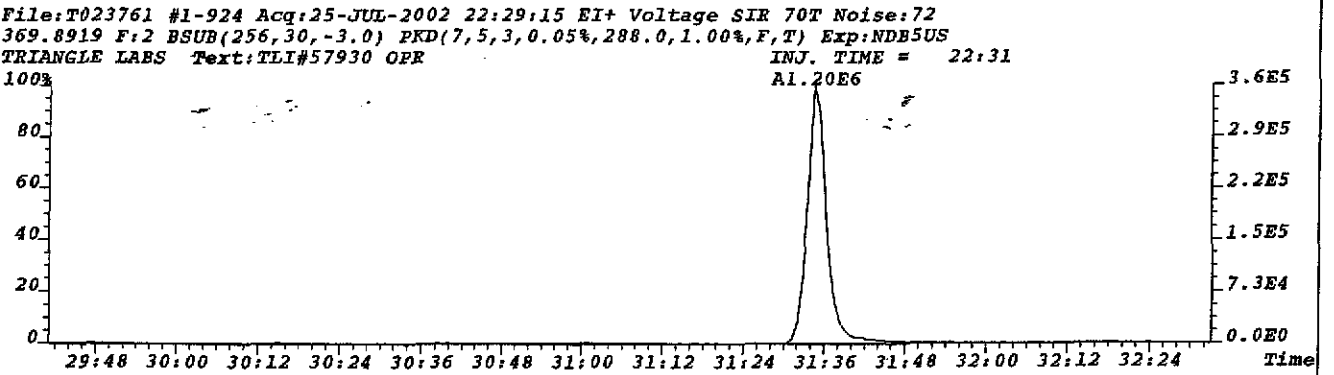
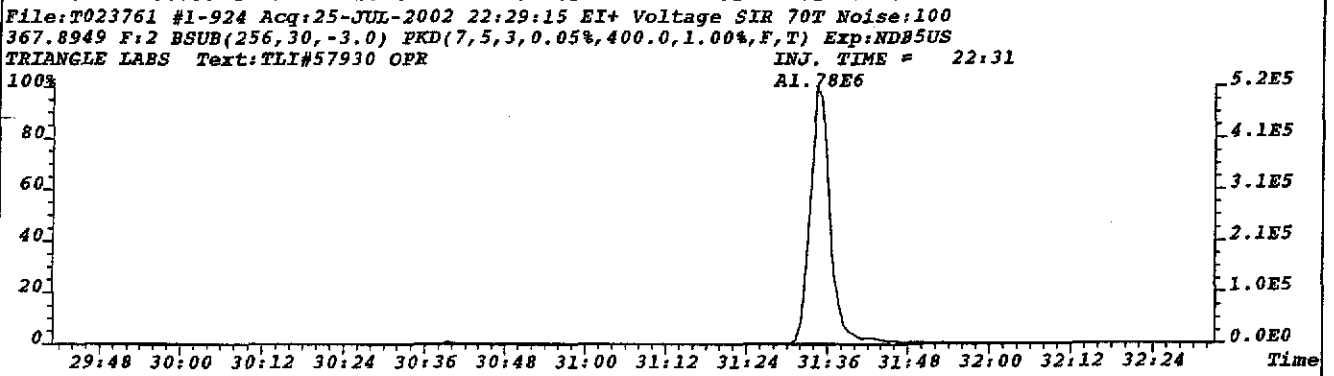
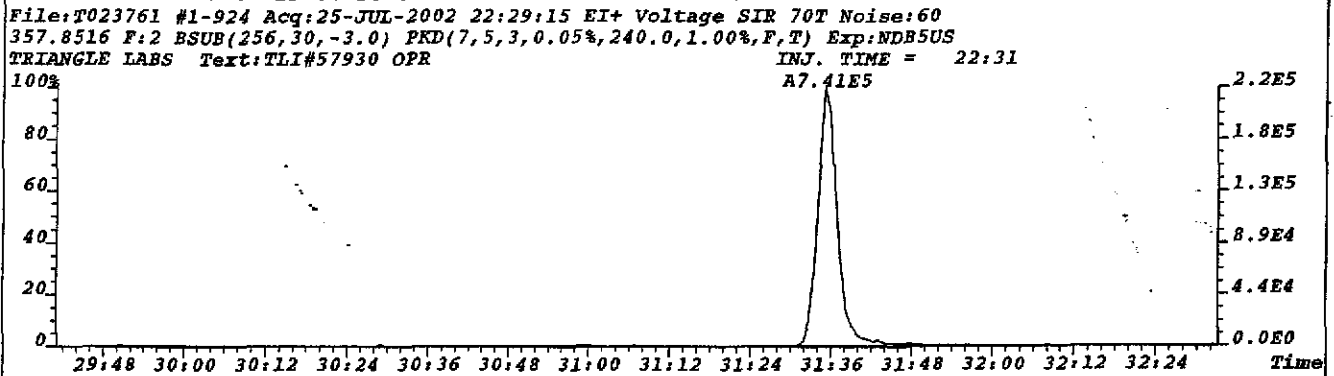
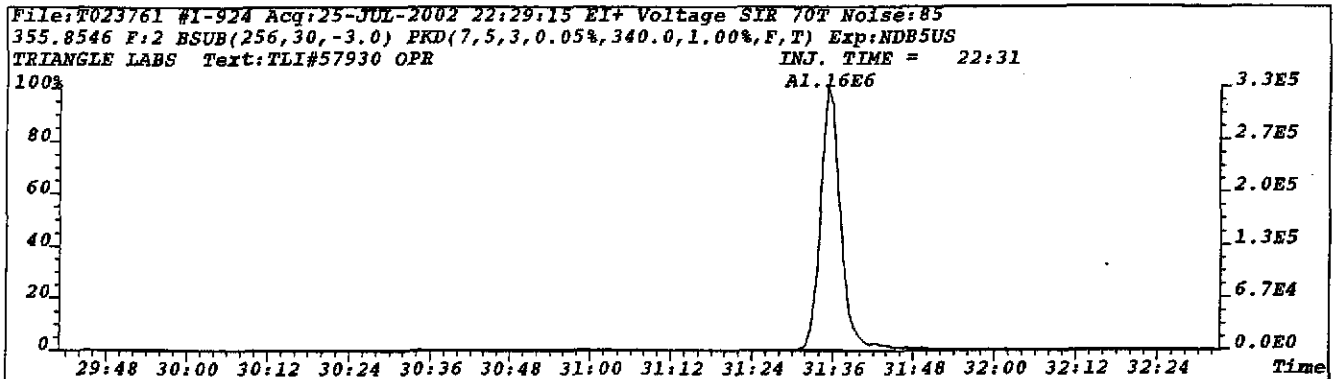


File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31

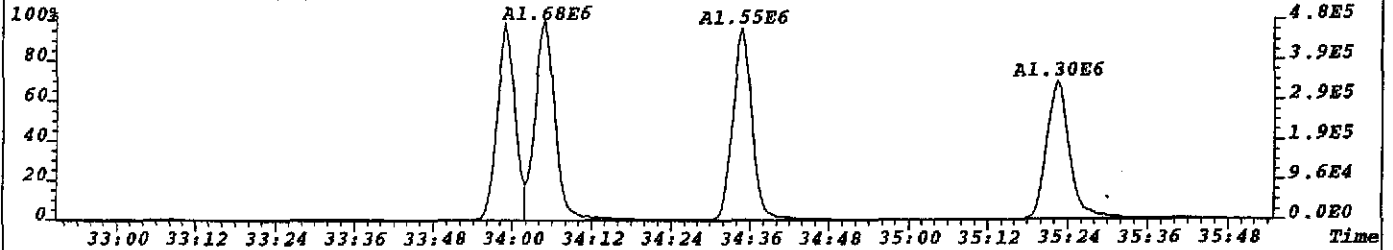


File:T023761 #1-924 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
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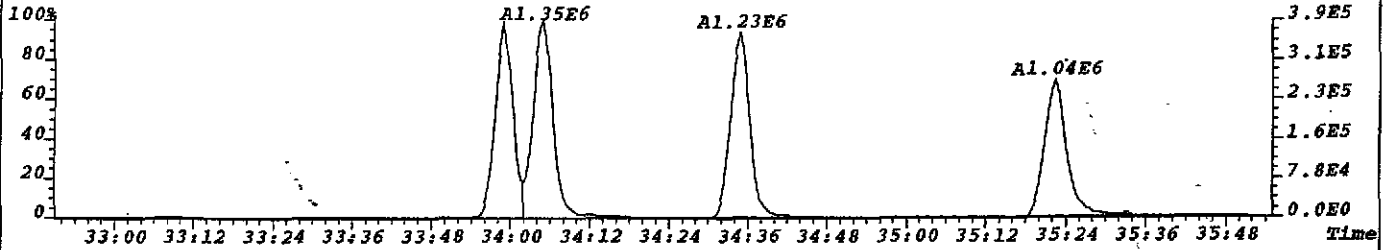




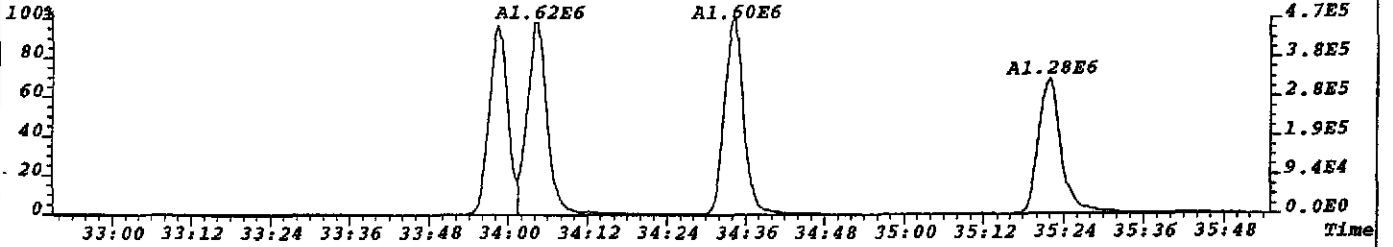
File:T023761 #1-386 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:149
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,596.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



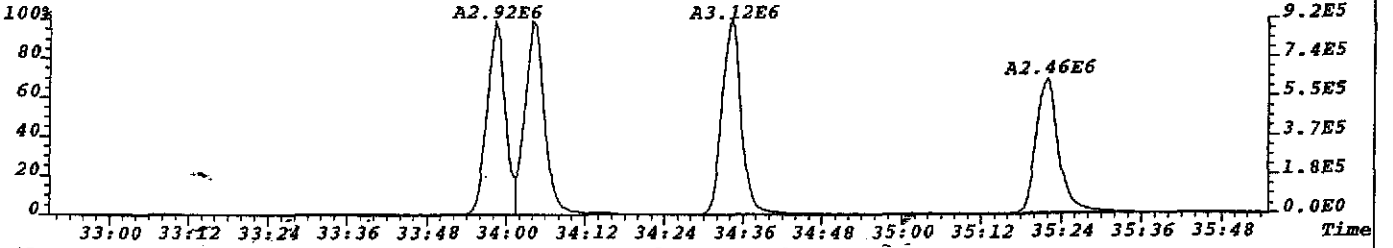
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375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,556.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



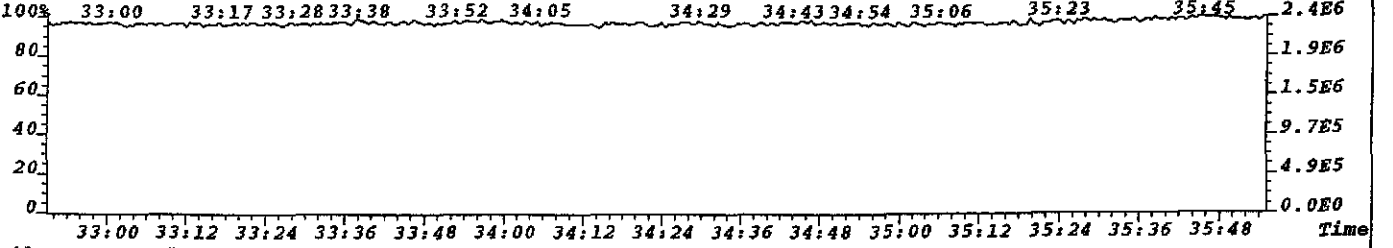
File:T023761 #1-386 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:212
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,848.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



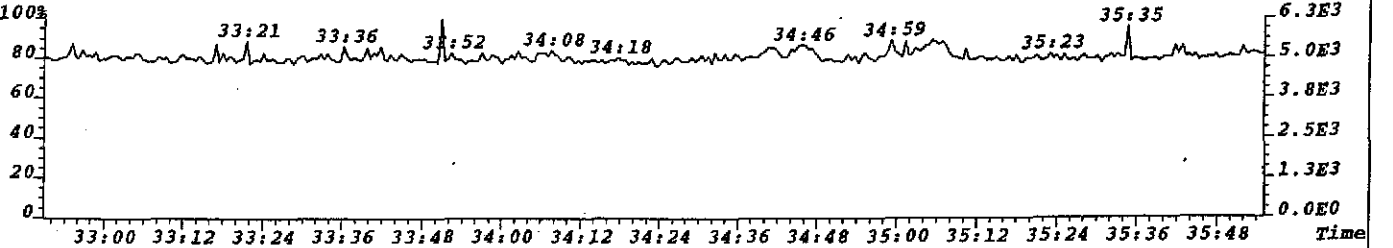
File:T023761 #1-386 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:101
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,404.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



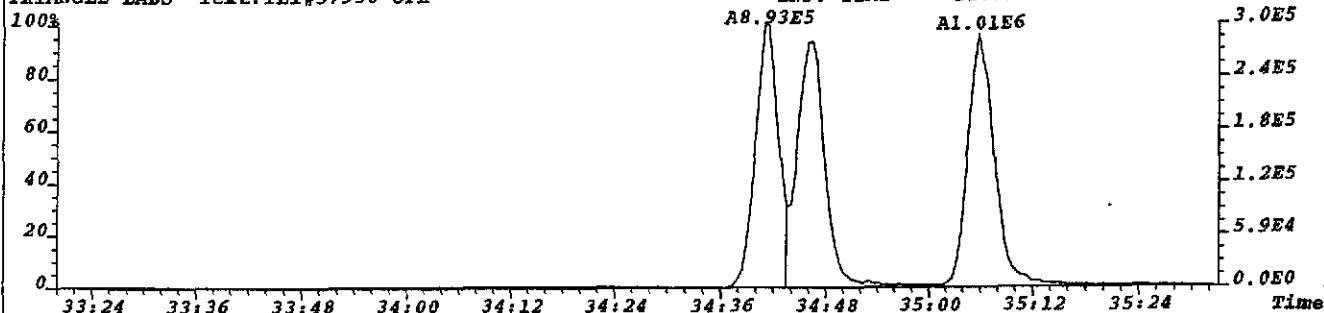
File:T023761 #1-386 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



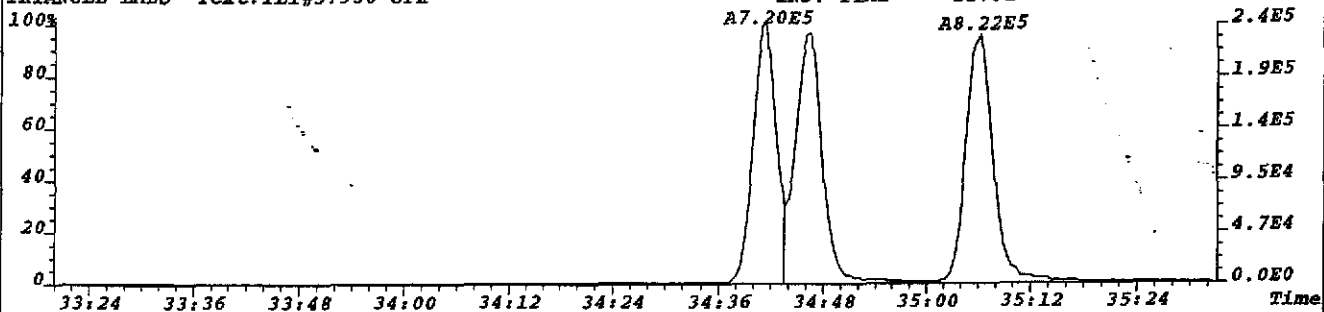
File:T023761 #1-386 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



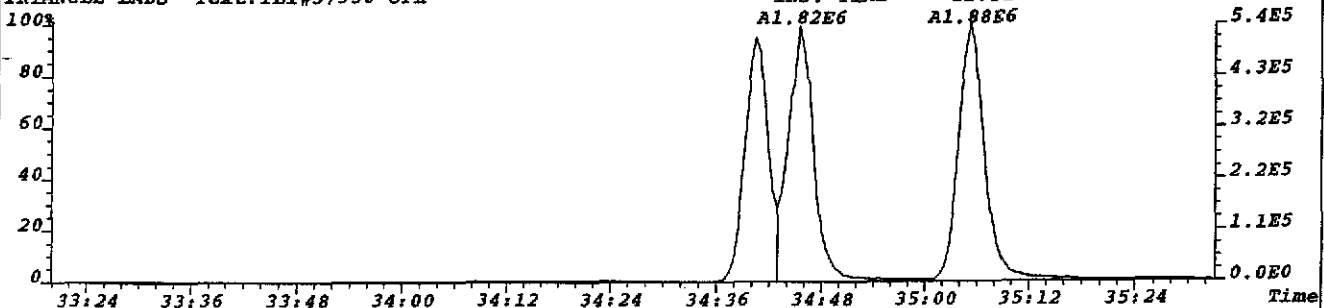
File:T023761 #1-386 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:67
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR



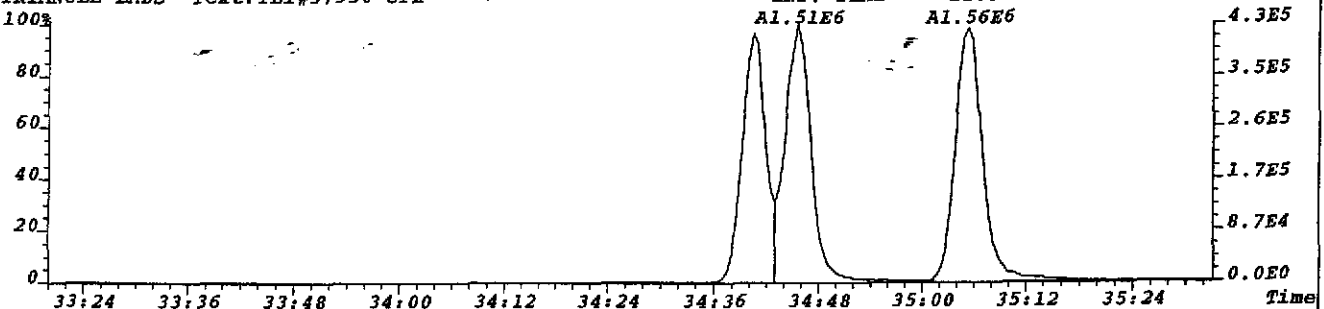
File:T023761 #1-386 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:93
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,372.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR



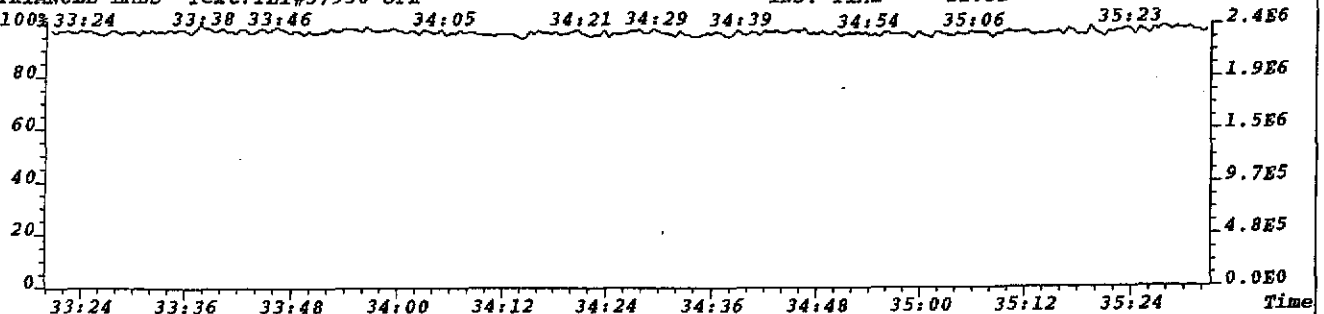
File:T023761 #1-386 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:102
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,408.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR



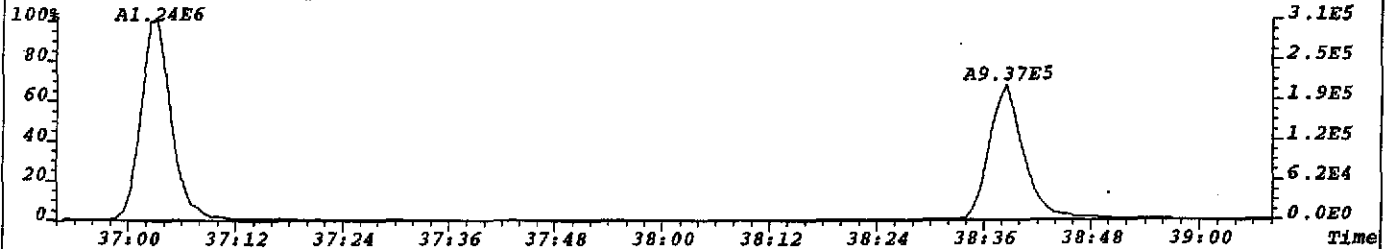
File:T023761 #1-386 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:77
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR



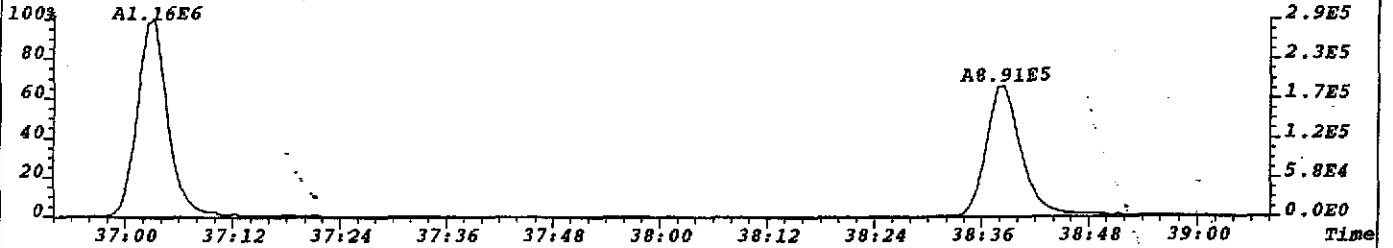
File:T023761 #1-386 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR



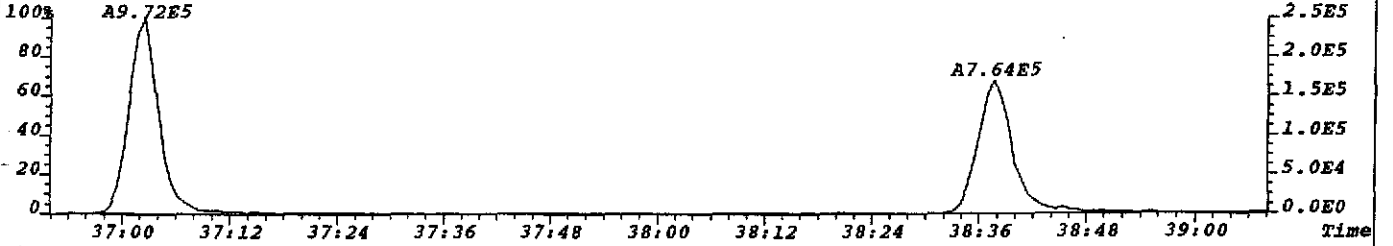
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:112
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,448.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



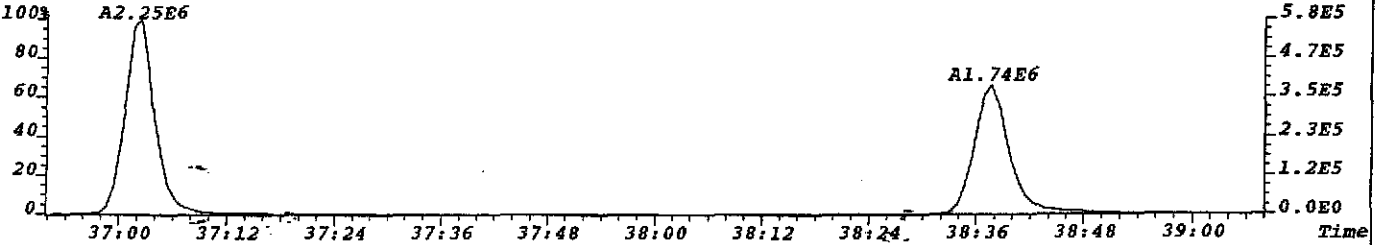
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:118
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,472.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



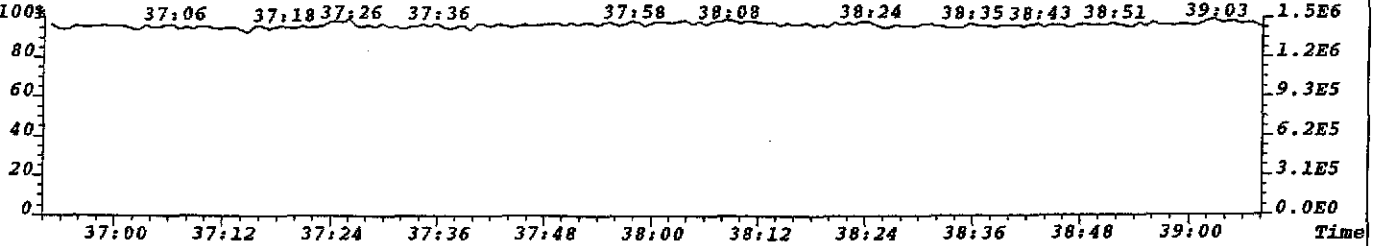
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:133
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,532.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



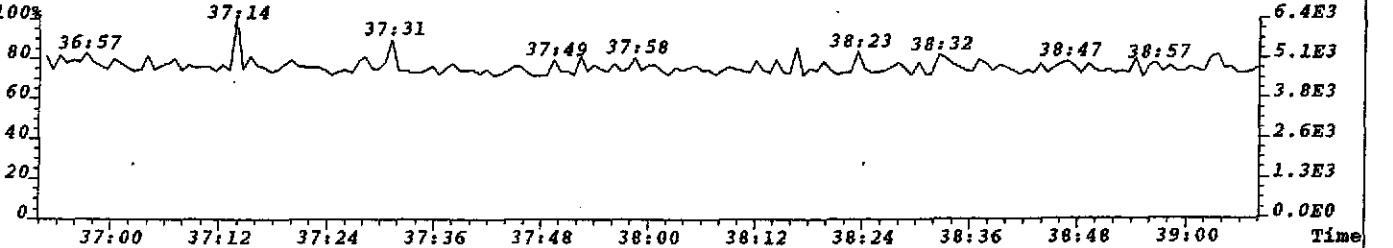
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:104
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,416.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



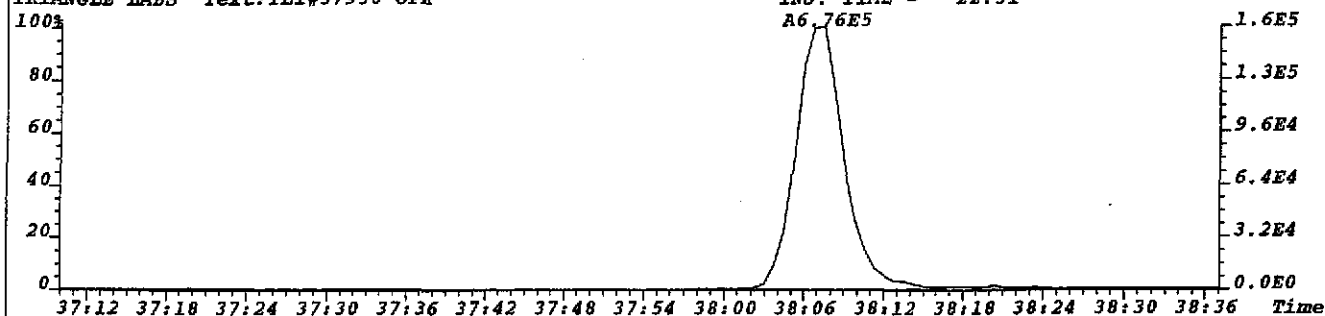
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



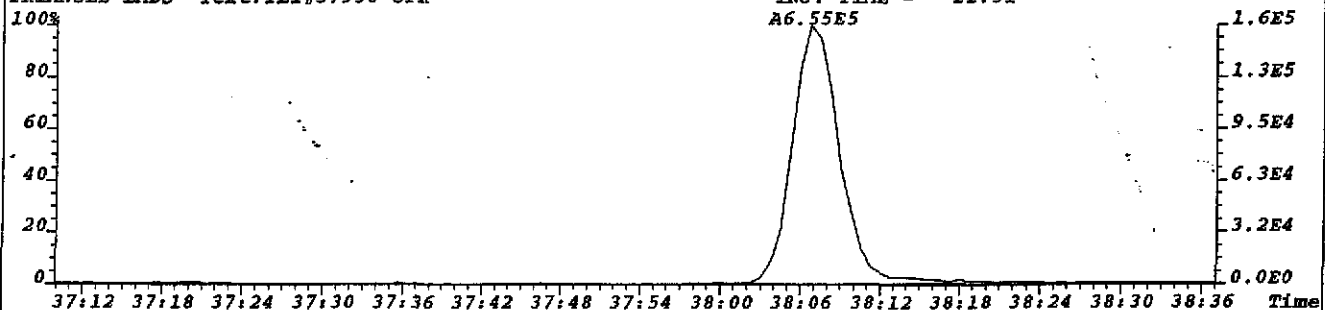
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



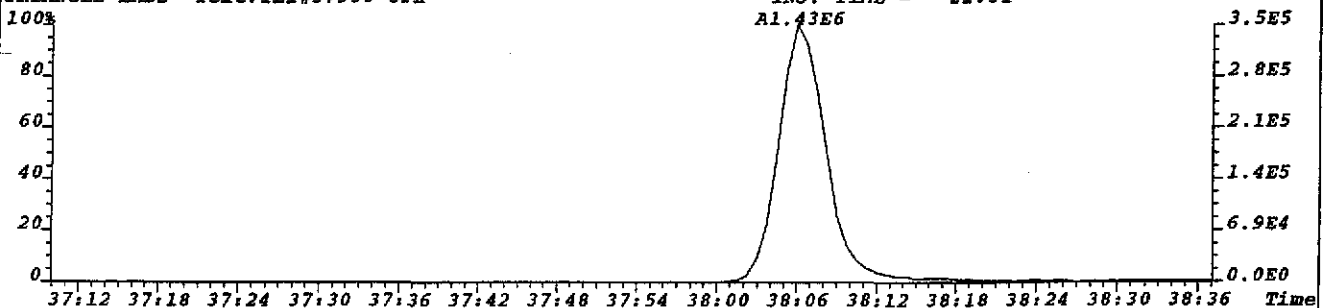
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:107
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,428.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



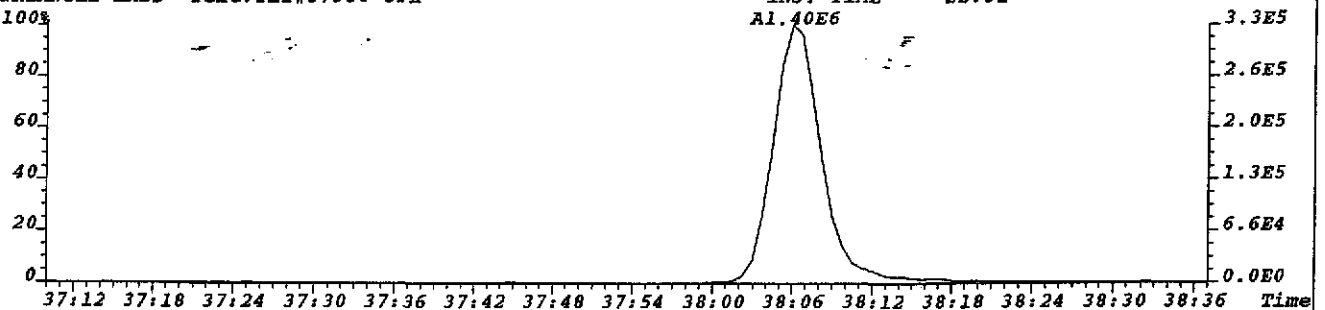
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:88
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,352.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



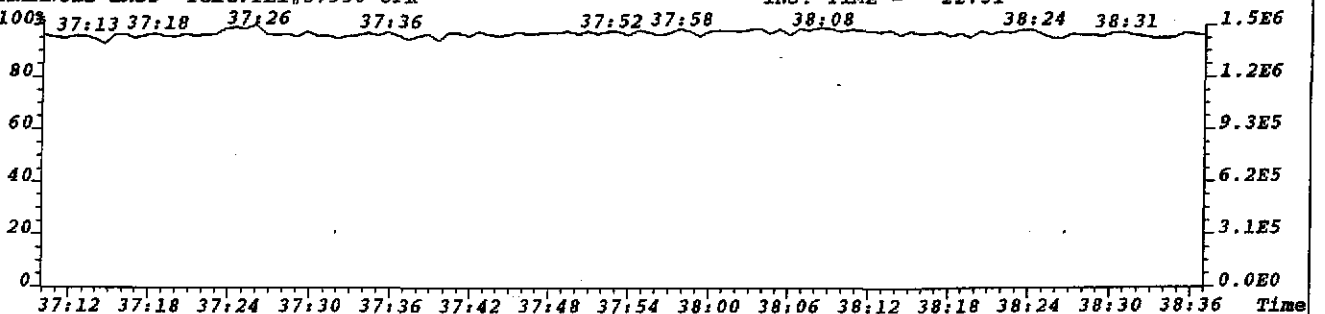
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:112
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,448.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



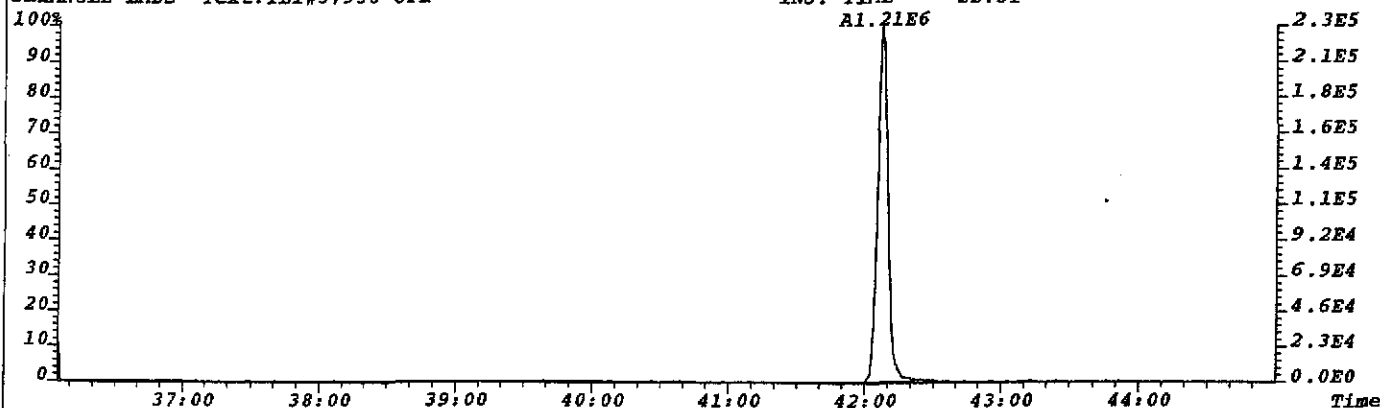
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:92
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,368.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



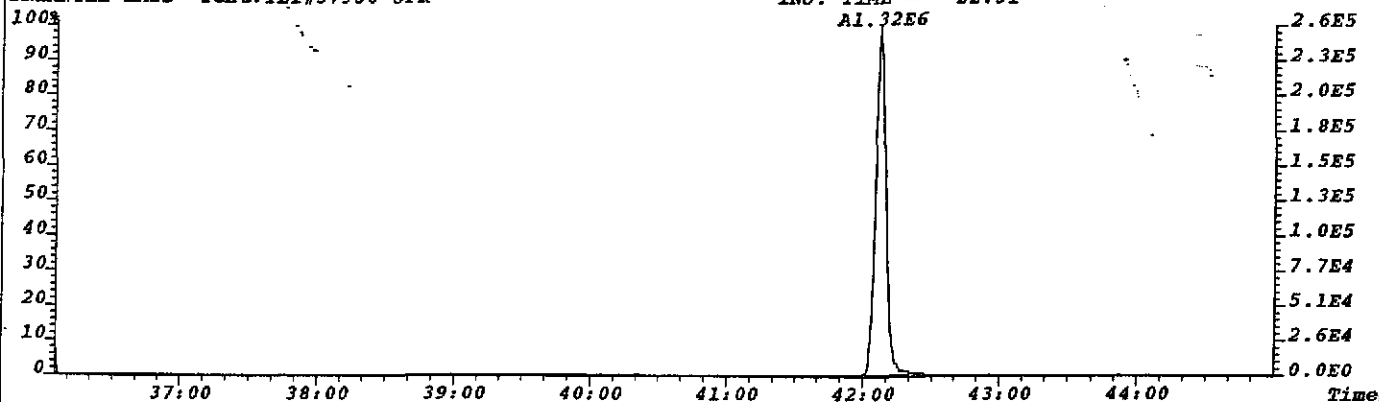
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



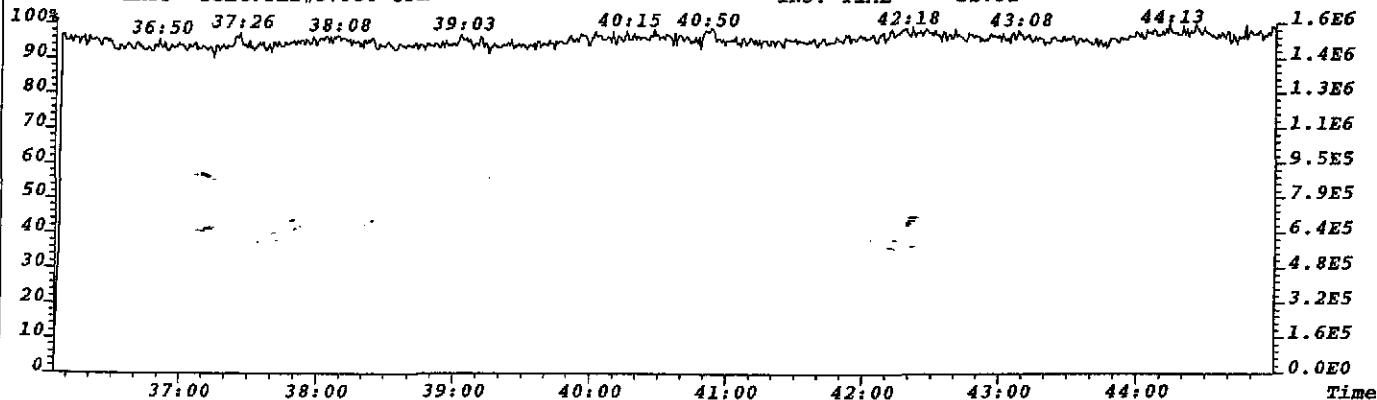
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:83
441.7428 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,332.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



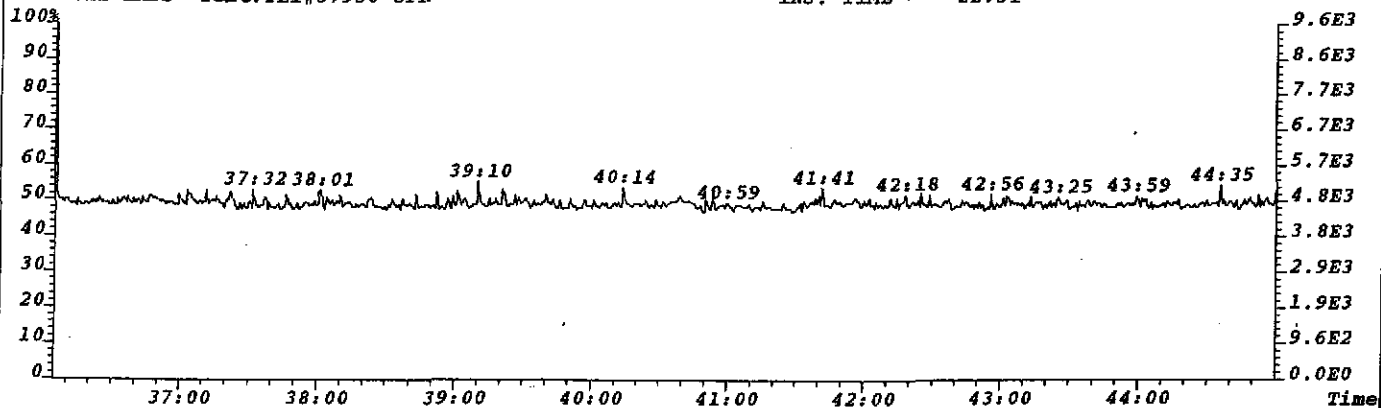
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:97
443.7399 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



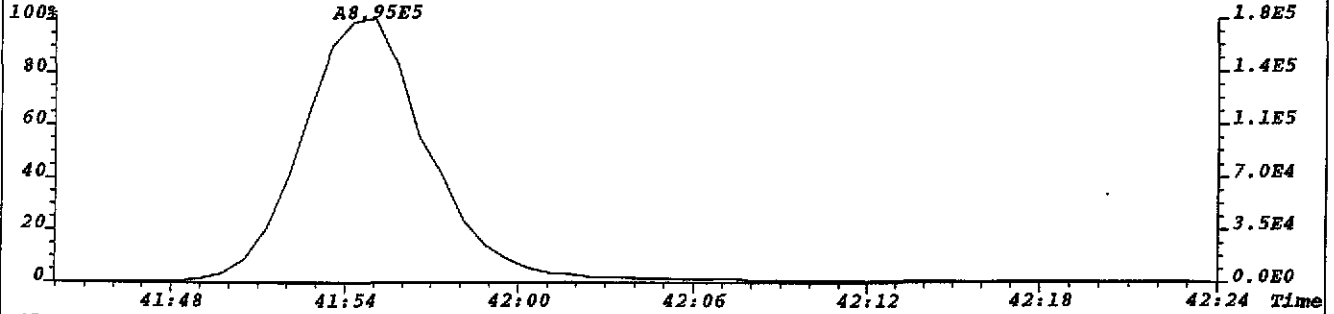
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



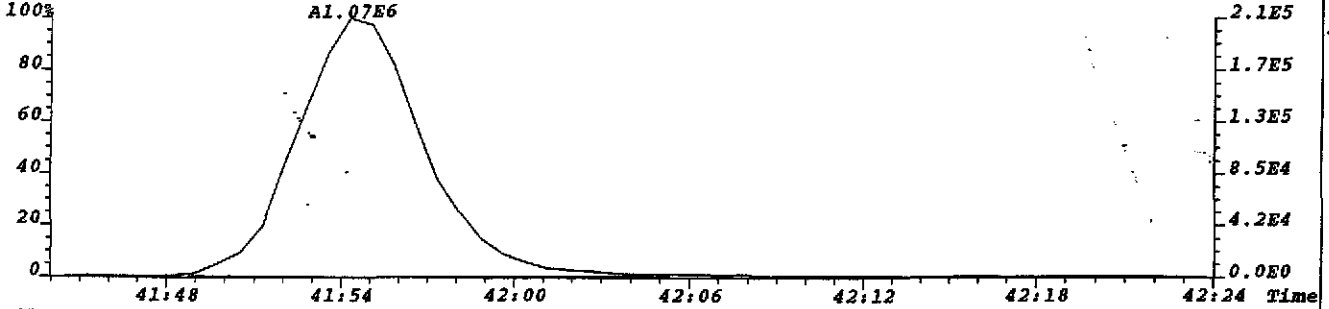
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



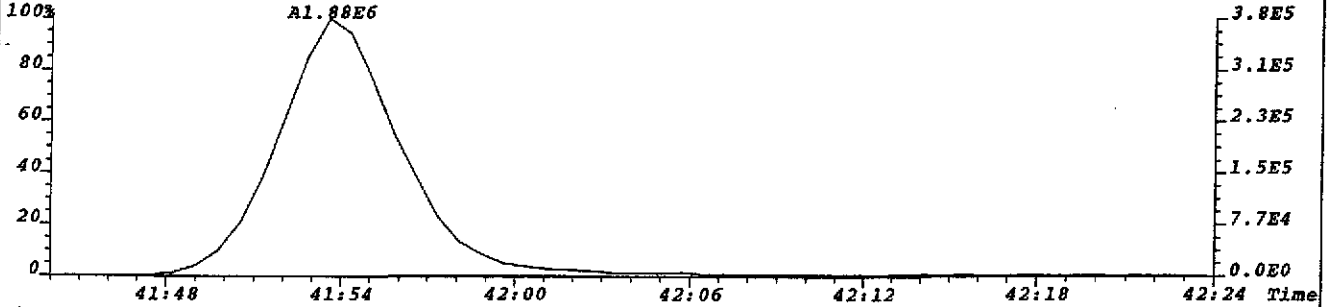
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:79
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



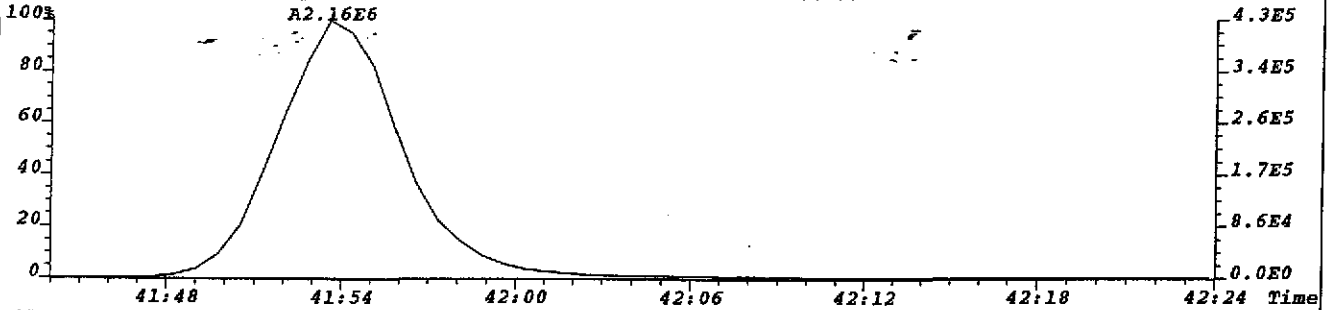
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:72
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,288.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



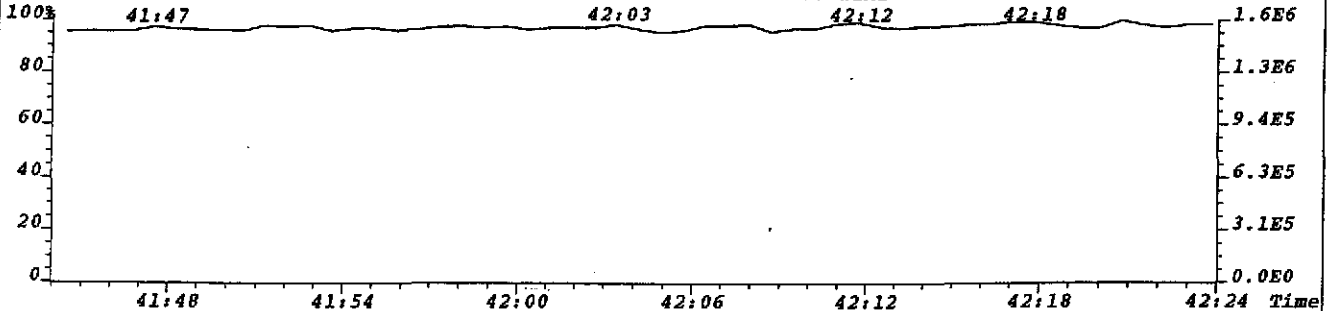
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:73
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,292.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31

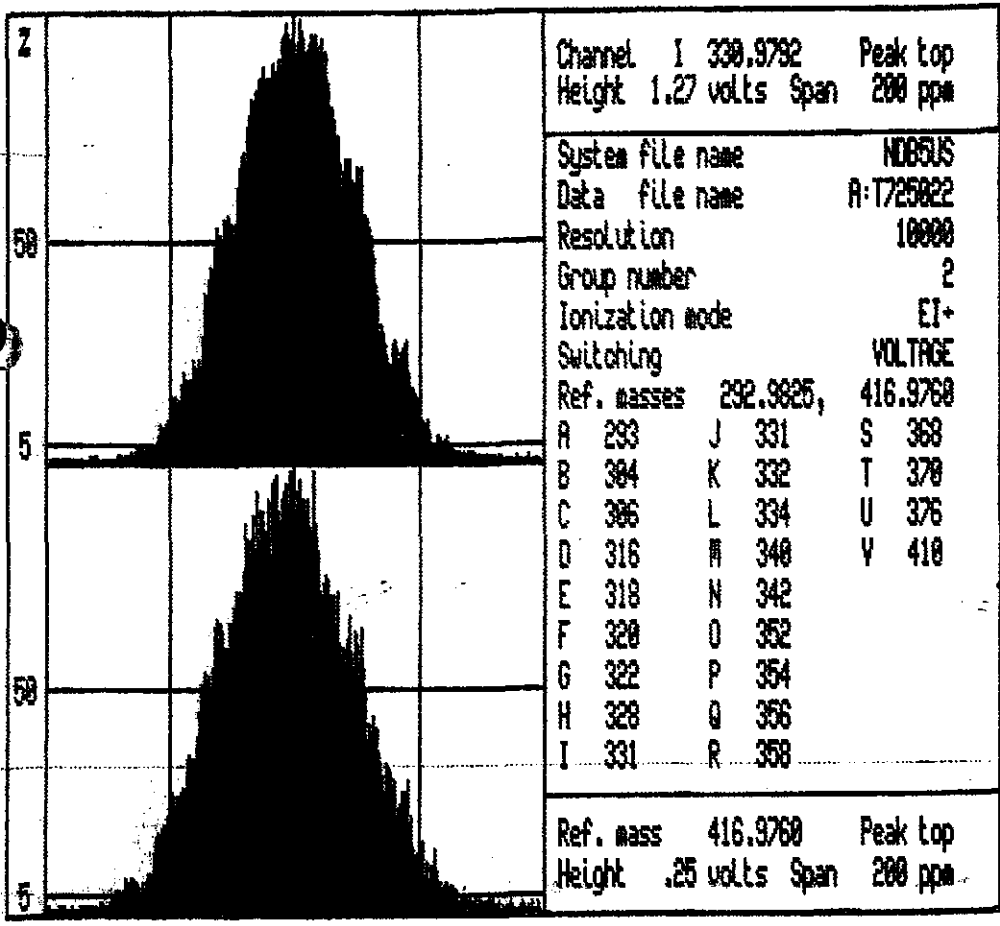


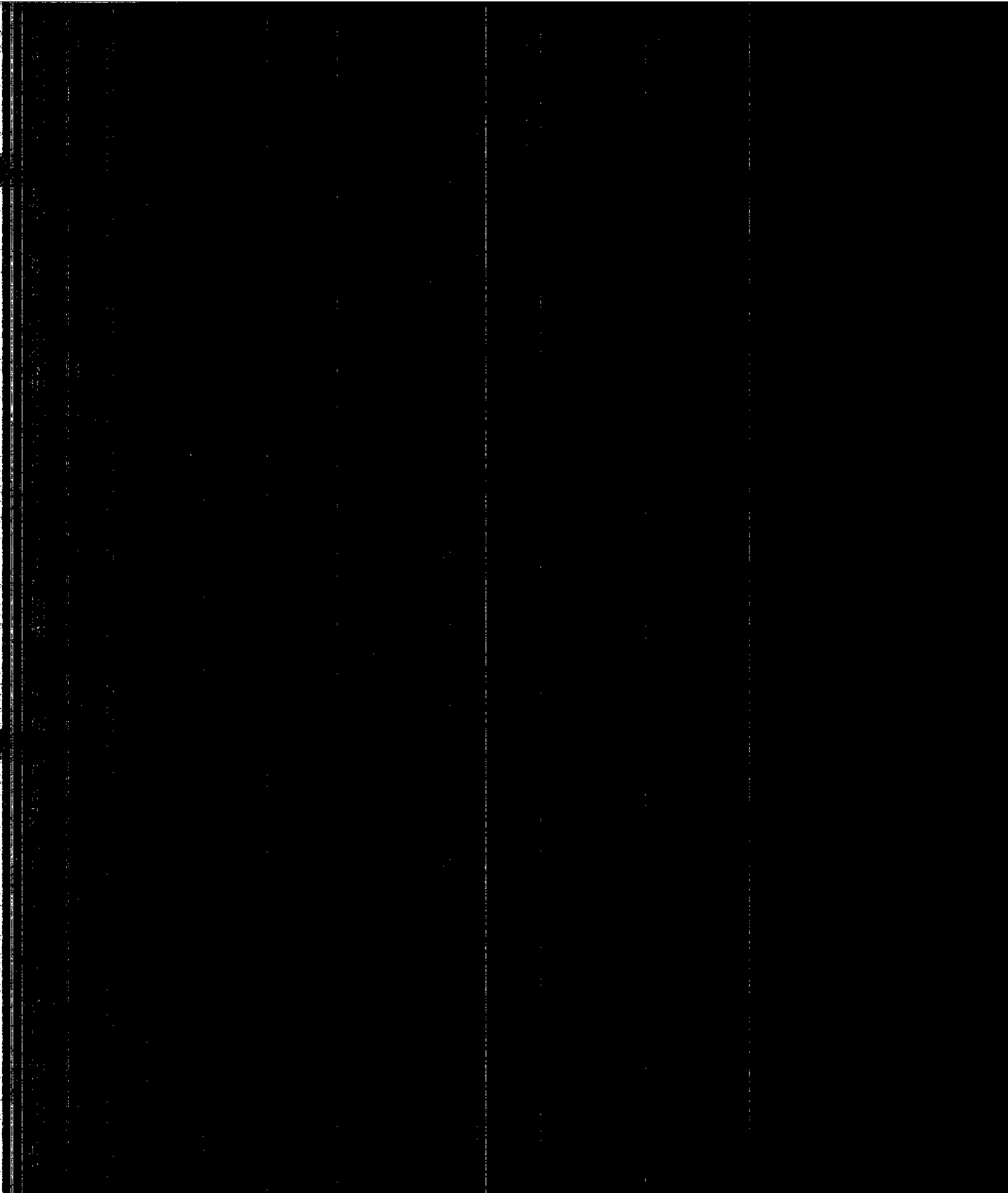
File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T Noise:71
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,284.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31



File:T023761 #1-708 Acq:25-JUL-2002 22:29:15 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 OPR INJ. TIME = 22:31







Martin & Slagle

TLI Project: 57930

1613, Revision B PCDD/PCDF Analysis (c)

Client Sample: TLI Blank

Analysis File: T023762

Client Project:	Kuhlman Electric	Date Received:	//	Spike File:	SP161B2S
Sample Matrix:	SOLID	Date Extracted:	07/23/2002	ICal:	TF5612B
TLI ID:	TLI Blank	Date Analyzed:	07/25/2002	ConCal:	TB23758
Sample Size:	10.000 g	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T023762	% Lipid:	n/a
GC Column:	DB-5	Analyst:	VSC	% Solids:	n/a

Analytes	Conc. (pg/g)	DL	Ratio	RT	RRT	Flags
2,3,7,8-TCDD	ND	0.5				---
1,2,3,7,8-PeCDD	ND	0.4				---
1,2,3,4,7,8-HxCDD	ND	0.4				---
1,2,3,6,7,8-HxCDD	ND	0.3				---
1,2,3,7,8,9-HxCDD	ND	0.3				---
1,2,3,4,6,7,8-HpCDD	ND	0.6				---
1,2,3,4,6,7,8,9-OCDD	ND	0.9				---
2,3,7,8-TCDF	ND	0.3				---
1,2,3,7,8-PeCDF	ND	0.3				---
2,3,4,7,8-PeCDF	ND	0.3				---
1,2,3,4,7,8-HxCDF	ND	0.2				---
1,2,3,6,7,8-HxCDF	ND	0.2				---
2,3,4,6,7,8-HxCDF	ND	0.2				---
1,2,3,7,8,9-HxCDF	ND	0.3				---
1,2,3,4,6,7,8-HpCDF	ND	0.3				---
1,2,3,4,7,8,9-HpCDF	ND	0.5				---
1,2,3,4,6,7,8,9-OCDF	ND	0.7				---

Totals	Conc. (pg/g)	Number	DL	Flags
Total TCDD	ND		0.5	---
Total PeCDD	ND		0.4	---
Total HxCDD	ND		0.3	---
Total HpCDD	ND		0.6	---
Total TCDF	ND		0.3	---
Total PeCDF	ND		0.3	---
Total HxCDF	ND		0.3	---
Total HpCDF	ND		0.4	---

Martin & Slagle

TLI Project: 57930
 Client Sample: TLI Blank

1613, Revision B PCDD/PCDF Analysis (c)
 Analysis File: T023762

Internal Standards	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	RRT	Flags
¹³ C ₁₂ -2,3,7,8-TCDD	159	79.7	25%-164%	0.78	27:24	1.007	—
¹³ C ₁₂ -1,2,3,7,8-PeCDD	185	92.5	25%-181%	1.45	31:34	1.160	—
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	171	85.5	32%-141%	1.27	34:40	0.988	—
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	198	99.1	28%-130%	1.16	34:45	0.990	—
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	193	96.4	23%-140%	1.01	38:06	1.086	—
¹³ C ₁₂ -1,2,3,4,6,7,8,9-OCDD	303	75.7	17%-157%	0.83	41:54	1.194	—
¹³ C ₁₂ -2,3,7,8-TCDF	181	90.3	24%-169%	0.74	26:43	0.982	—
¹³ C ₁₂ -1,2,3,7,8-PeCDF	186	93.2	24%-185%	1.48	30:34	1.123	—
¹³ C ₁₂ -2,3,4,7,8-PeCDF	189	94.6	21%-178%	1.49	31:15	1.148	—
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	196	98.2	26%-152%	0.52	33:57	0.968	—
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	214	107	26%-123%	0.52	34:03	0.971	—
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	209	104	28%-136%	0.53	34:33	0.985	—
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	206	103	29%-147%	0.51	35:21	1.008	—
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	228	114	28%-143%	0.45	37:02	1.056	—
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	207	103	26%-138%	0.43	38:37	1.101	—

Cleanup Standard	Conc. (pg/g)	% Recovery	QC Limits	RT	RRT	Flags
³⁷ Cl ₄ -2,3,7,8-TCDD	15.9	79.7	35%-197%	27:25	1.007	—

Recovery Standards	Ratio	RT	Flags
¹³ C ₁₂ -1,2,3,4-TCDD	0.82	27:13	—
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.20	35:05	—

Data Reviewer: AEM 07/26/2002

TLI Project: 57930
 Client Sample: TLI Blank

Toxicity Equivalents Report
 Analysis File: T023762

Client Project:	Kuhlman Electric	Date Received:	07/20/02	Spike File:	SP161B2S
Sample Matrix:	SOLID	Date Extracted:	07/23/02	ICal:	TF5612B
TLI ID:	TLI Blank	Date Analyzed:	07/25/02	ConCal:	TB23758
Sample Size:	10.000 g	Dilution Factor:	1	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	T023762	% Lipid:	n/a
GC Column:	DB-5	Analyst:	VSC	% Solids:	n/a

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	{0.5}	x	1.	=	0.5
1,2,3,7,8-PeCDD	{0.4}	x	0.5	=	0.2
1,2,3,4,7,8-HxCDD	{0.4}	x	0.1	=	0.04
1,2,3,6,7,8-HxCDD	{0.3}	x	0.1	=	0.03
1,2,3,7,8,9-HxCDD	{0.3}	x	0.1	=	0.03
1,2,3,4,6,7,8-HpCDD	{0.6}	x	0.01	=	0.006
1,2,3,4,6,7,8,9-OCDD	{0.9}	x	0.001	=	0.0009
TOTAL PCDD					0.8
2,3,7,8-TCDF	{0.3}	x	0.1	=	0.03
1,2,3,7,8-PeCDF	{0.3}	x	0.05	=	0.02
2,3,4,7,8-PeCDF	{0.3}	x	0.5	=	0.2
1,2,3,4,7,8-HxCDF	{0.2}	x	0.1	=	0.02
1,2,3,6,7,8-HxCDF	{0.2}	x	0.1	=	0.02
2,3,4,6,7,8-HxCDF	{0.2}	x	0.1	=	0.02
1,2,3,7,8,9-HxCDF	{0.3}	x	0.1	=	0.03
1,2,3,4,6,7,8-HpCDF	{0.3}	x	0.01	=	0.003
1,2,3,4,7,8,9-HpCDF	{0.5}	x	0.01	=	0.005
1,2,3,4,6,7,8,9-OCDF	{0.7}	x	0.001	=	0.0007
TOTAL PCDF					0.3

Total EPA TEFs, 1989a: 1.2 pg/g

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

InitialDate...

Data Review By:

QEM 7/26/02

Calculated Noise Height: 0.05

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Listing of T023762B.dbf
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	0.16	0.09	0.07
	DC	SN	23:32 RO 0.46	0.41		0.881
	D	D	24:42 0.87	0.43		0.925
	DC	WH	28:48 RO 1.60	0.39		1.078
304-306			0 Peaks	0.00		

13C12-TCDF			0.65-0.89			0.944-1.131
316-318	DC	NL	Height	0.15	0.07	0.08
			26:00 0.74	0.68	0.29	0.39 0.973
			26:43 0.74	311.25	132.03	179.22 1.000 13C12-2378-TCDF-ISO
			Height	68.62	29.10	39.52
316-318			2 Peaks	311.93		

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

TCDD			0.65-0.89			0.905-1.042
320-322	DC	NL	Height	0.12	0.06	0.06
	DC	SN	25:59 RO 4.25	0.21		0.948
	DC	SN	27:39 RO 2.75	0.30		1.009
	DC	SN	27:57 RO 3.50	0.18		1.020
	DC	SN	28:01 RO 17.50	0.37		1.023
	DC	SN	28:14 RO 0.46	0.19		1.030
	DC	SN	28:19 RO 4.80	0.29		1.033
	DC	SN	28:29 RO 1.20	0.22		1.040
	DC	WH	28:38 RO 0.90	0.19		1.045
320-322			0 Peaks	0.00		

37C1-TCDD						0.927-1.073
328	DC	NL	Height	0.06	0.06	
	DC	WL	24:46	0.27		0.904
	DC	WL	24:52	0.06		0.908
	DC	WL	24:54	0.02		0.909
	DC	WL	24:57	0.22		0.911
	DC	WL	25:22	0.05		0.926
	DC	SN	25:59	0.12		0.948
			26:04	0.24	0.24	0.951
	DC	SN	26:09	0.05		0.954
	DC	SN	26:16	0.08		0.959
	DC	SN	26:22	0.04		0.962
			27:25	23.15	23.15	1.001 37C1-TCDD CLS
			27:40	0.41	0.41	1.010
			27:48	0.26	0.26	1.015
			27:55	0.17	0.17	1.019
	DC	SN	28:00	0.10		1.022
	DC	SN	28:08	0.14		1.027
			28:14	0.44	0.44	1.030

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.

328	6 Peaks		24.67		0.920-1.066	
13C12-TCDD	0.65-0.89					
332-334	DC NL	Height	0.23	0.15	0.08	
	DC SN	25:20 RO	1.25		0.925	
	DC SN	26:30 RO	0.20		0.967	
		27:13	0.82	262.84	118.74	144.10 0.993 13C12-1234-TCDD RS1
		27:24	0.78	236.55	103.63	132.92 1.000 13C12-2378-TCDD IS1
		Height	50.89	22.24	28.65	
		27:51 RO	3.00	1.96	1.47	0.49 1.016
		28:01 RO	1.31	0.74	0.42	0.32 1.023
		28:05 RO	3.15	1.12	0.85	0.27 1.025
	DC SN	28:21 RO	3.25	0.51		1.035
		28:35 RO	1.23	0.49	0.27	0.22 1.043
332-334	6 Peaks		503.70			

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

PeCDF	1.32-1.78				0.911-1.036	
340-342	DC NL	Height	0.14	0.06	0.08	
	DC SN	29:22 RO	0.67	0.30	0.940	
	DC SN	30:22	1.50	0.30	0.972	
340-342	0 Peaks		0.00			

13C12-PeCDF	1.32-1.78				0.807-1.127	
352-354	DC NL	Height	0.12	0.05	0.07	
		29:44	1.32	2.67	1.52	1.15 0.951
		30:11 RO	1.00	1.34	0.67	0.966
		30:34	1.48	284.60	169.64	114.96 1.000 13C12-PeCDF 123 IS2
		Height	74.69	44.52	30.17	
		30:50	1.64	7.53	4.68	2.85 0.987
		30:59 RO	9.56	1.69	1.53	0.16 0.991
		31:15	1.49	294.51	176.13	118.38 1.000 13C12-PeCDF 234 IS3
		Height	78.25	46.95	31.30	
		31:41 RO	0.59	1.11	0.41	0.70 1.014
		31:58 RO	3.18	0.92	0.70	0.22 1.023
		32:11 RO	1.02	3.71	1.87	1.84 1.030
		32:25	1.57	0.18	0.11	0.07 1.037
352-354	10 Peaks		598.26			

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

PeCDD	1.32-1.78				0.940-1.021	
356-358	DC NL	Height	0.32	0.06	0.06	
356-358	0 Peaks		0.00			
13C12-PeCDD	1.32-1.78				0.735-1.052	
368-370	DC NL	Height	0.13	0.08	0.05	
		30:41	1.76	0.94	0.60	0.34 0.972
		30:50	1.47	0.47	0.28	0.19 0.977
		31:34	1.45	202.08	119.47	82.61 1.000 13C12-PeCDD 123 IS4
		Height	56.73	33.71	23.02	

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.

368-370 31:54 RO 0.87 1.55 0.72 0.83 1.011
4 Peaks 205.04

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

HxCDF 1.05-1.43 0.929-1.007
374-376 DC NL Height 0.12 0.07 0.05
DC SN 33:59 1.16 0.41 1.001 123478-HxCDF AN
374-376 0 Peaks 0.00

13C12-HxCDF 0.43-0.59 0.879-1.105
384-386 DC NL Height 0.24 0.08 0.16
32:59 0.43 0.66 0.20 0.46 0.933
33:08 0.46 0.95 0.30 0.65 0.937
33:57 0.52 315.67 107.41 208.26 1.000 13C12-HxCDF 478 IS5
Height 93.52 31.88 61.64
34:03 0.52 347.83 118.96 228.87 1.000 13C12-HxCDF 678 IS6
Height 94.10 32.34 61.76
34:22 RO 3.13 1.65 1.25 0.40 0.972
34:33 0.53 332.07 114.78 217.29 1.000 13C12-HxCDF 234 IS7
Height 97.08 33.84 63.24
35:21 0.51 275.53 93.26 182.27 1.000 13C12-HxCDF 789 IS8
Height 69.68 23.81 45.87
35:44 RO 0.16 0.67 0.09 0.58 1.011
384-386 8 Peaks 1,275.03

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

HxCDD 1.05-1.43 0.959-1.013
390-392 DC NL Height 0.14 0.07 0.07
DC SN 33:56 RO 2.67 0.22 0.976
D D SN 34:33 RO 2.00 0.51 0.994
390-392 0 Peaks 0.00

13C12-HxCDD 1.05-1.43 0.983-1.041
402-404 DC NL Height 0.17 0.09 0.08
34:07 1.15 1.01 0.54 0.47 0.984
34:40 1.27 203.56 113.84 89.72 1.000 13C12-HxCDD 478 IS9
Height 63.20 33.72 29.48
34:45 1.16 257.86 138.29 119.57 1.000 13C12-HxCDD 678 IS10
Height 71.59 39.76 31.83
35:05 1.20 271.35 147.74 123.61 1.012 13C12-HxCDD 789 RS2
35:21 RO 0.60 2.29 0.86 1.43 1.020
35:30 RO 1.03 0.59 0.30 0.29 1.024
402-404 6 Peaks 736.66

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

HpCDF 0.88-1.20 0.955-1.005
408-410 DC NL Height 0.11 0.05 0.06
DC SN 36:54 RO 1.53 0.38 0.956
DC SN 37:02 0.93 0.27 1.000 1234678-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.

	DC	SN	37:28	RO	0.38	0.11			0.970	
	DC	SN	38:11	RO	0.72	0.31			0.989	
	DC	SN	38:17	RO	2.00	0.12			0.991	
408-410	0 Peaks					0.00				
13C12-HpCDF	0.37-0.51								0.856-1.141	
418-420	DC	NL	Height			0.16	0.10	0.06		
			37:02		0.45	257.75	80.36	177.39	1.000	13C12-HpCDF 678 IS11
			Height			63.34	19.21	44.13		
			37:25	RO	0.54	1.68	0.59	1.09	0.969	
			37:37	RO	0.75	0.35	0.15	0.20	0.974	
	DC	SN	37:42	RO	0.90	0.40			0.976	
	DC	SN	37:50	RO	1.70	0.27			0.980	
			38:37		0.43	188.03	56.68	131.35	1.000	13C12-HpCDF 789 IS12
			Height			38.59	11.82	26.77		
			39:00	RO	0.56	2.01	0.72	1.29	1.010	
418-420	5 Peaks					449.82				

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

HpCDD	0.88-1.20								0.976-1.005	
424-426	DC	NL	Height			0.11	0.06	0.05		
	DC	SN	38:18	RO	0.83	0.11			1.005	
	DC	WH	38:28	RO	0.13	0.27			1.010	
	DC	WH	38:29	RO	0.80	0.09			1.010	
424-426	0 Peaks					0.00				
13C12-HpCDD	0.88-1.20								0.868-1.078	
436-438	DC	NL	Height			0.17	0.10	0.07		
			37:19		1.03	0.69	0.35	0.34	0.979	
			38:06		1.01	206.37	103.57	102.80	1.000	13C12-HpCDD 678 IS13
			Height			47.71	24.09	23.62		
436-438	2 Peaks					207.06				

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

OCDF	0.76-1.02								0.952-1.048	
442-444	DC	NL	Height			0.14	0.07	0.07		
	DC	WL	37:02	RO	1.40	0.24			0.884	
	DC	WE	37:27		0.82	0.20			0.894	
	DC	WL	37:31	RO	6.00	0.14			0.895	
	DC	WL	37:36	RO	2.56	0.32			0.897	
	DC	WL	38:54	RO	1.40	0.24			0.928	
	DC	WL	39:22		1.00	0.16			0.940	
	DC	SN	41:54	RO	2.00	0.21			1.000	
	DC	SN	43:32	RO	1.06	0.33			1.039	
	DC	SN	43:51	RO	2.00	0.12			1.047	
442-444	0 Peaks					0.00				
OCDD	0.76-1.02								0.952-1.048	
458-460	DC	NL	Height			0.10	0.05	0.05		
458-460	0 Peaks					0.00				

Compound/

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

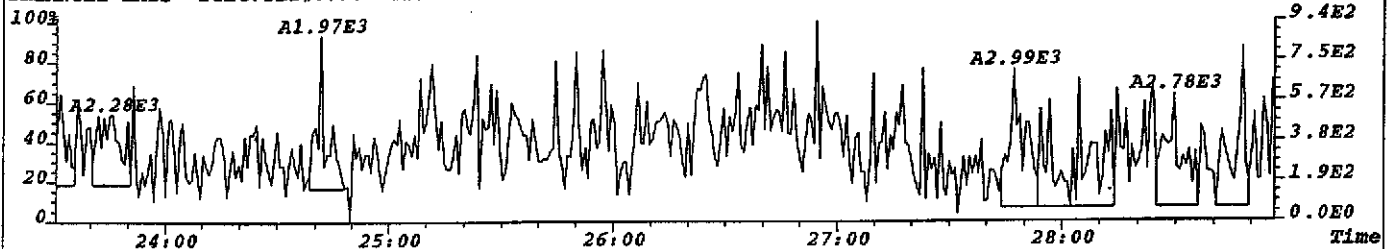
Compound	QC	Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
13C12-OCDD					0.76-1.02						0.996-1.004			
470-472	DC	NL			Height		0.11		0.06	0.05				
				41:54	0.83		304.85		138.41	166.44	1.000	13C12-OCDD	IS14	
					Height		57.42		26.17	31.25				
	DC	WH		42:22	RO	1.52	1.36				1.011			
470-472				1 Peak			304.85							

Column Description..... "Why" Code Description..... QC Log Desc.....

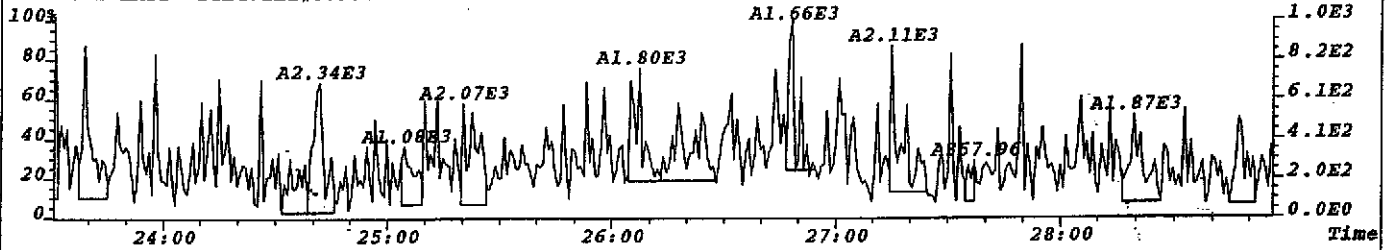
M_Z -Nominal Ion Mass(es) WL-Below Retention Time Window A-Peak Added
 ..RT. -Retention Time (mm:ss) WH-Above Retention Time Window K-Peak Kept
 Rat.1 -Ratio of M/M+2 Ions SN-Below Signal to Noise Level D-Peak Deleted
 OK -RO=Ratio Outside Limits <M-Below Method Detection Limit T-Time Changed
 Rel.RT-Relative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

*** End of Report ***

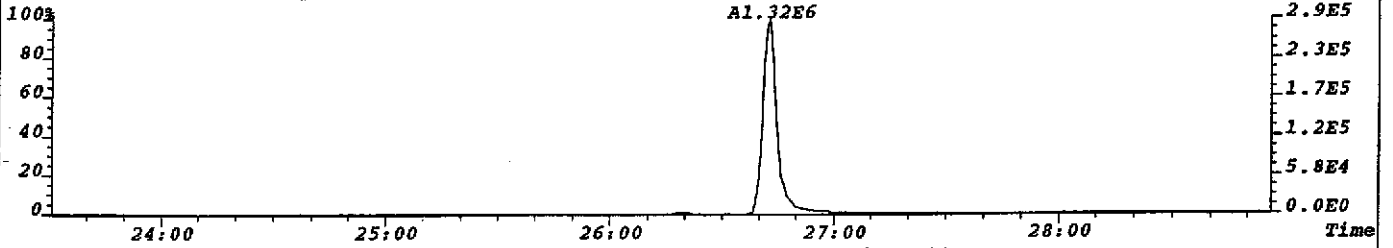
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303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,452.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



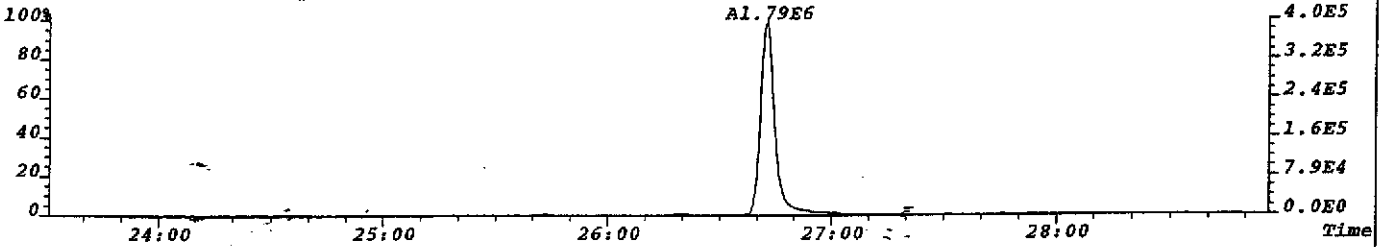
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305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,356.0,1.00%,F,T) Exp:NDB5US
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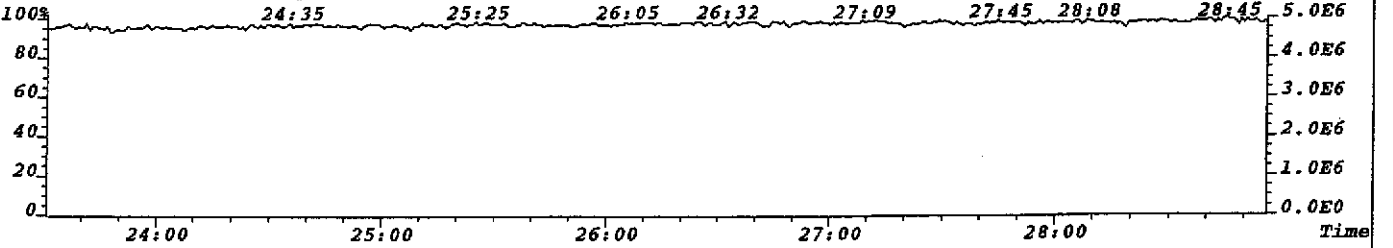
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315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,352.0,1.00%,F,T) Exp:NDB5US
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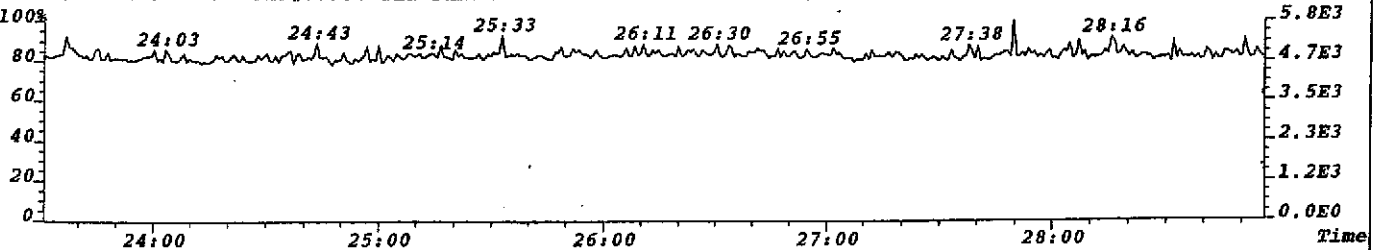
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TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



File:T023762 #1-924 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



File:T023762 #1-924 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
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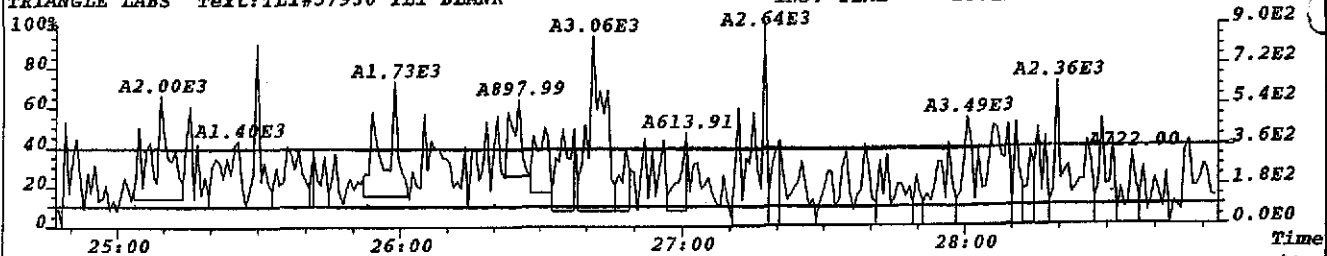


NE .277 2425 09

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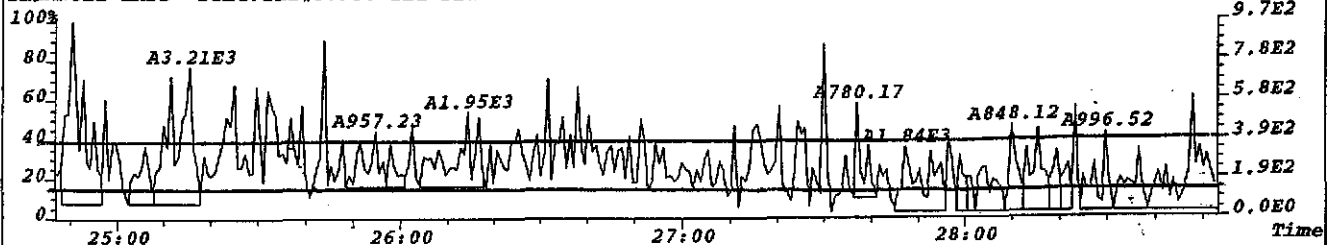
27/24

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319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,288.0,1.00%,F,T) Exp:NDB5US
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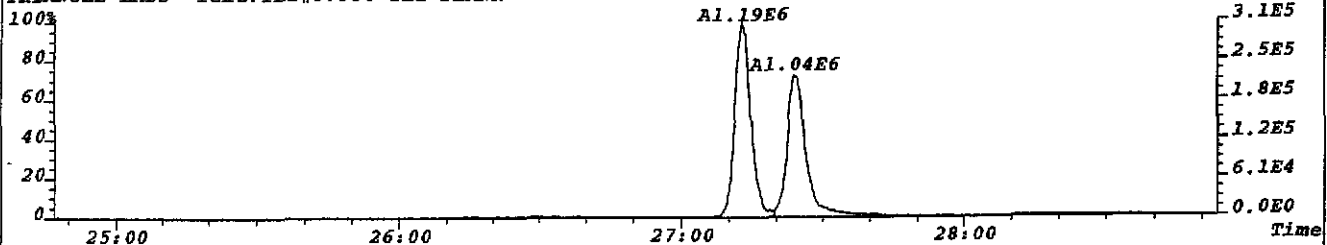


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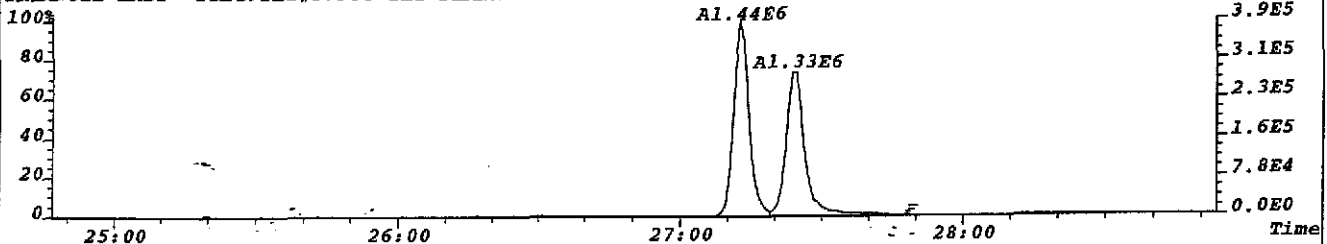
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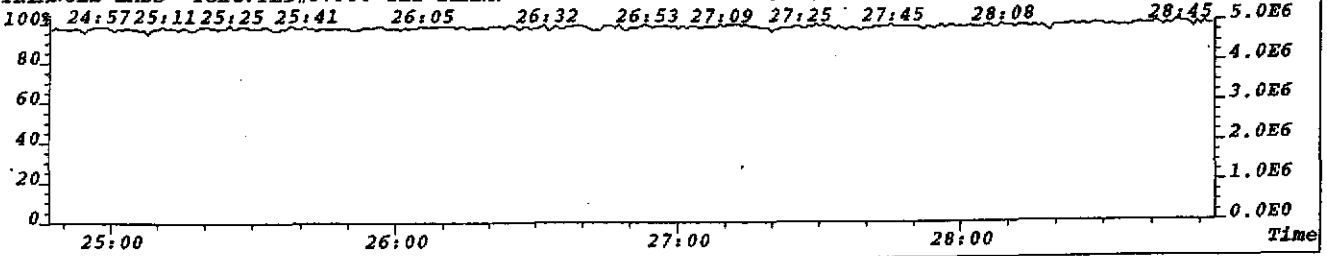
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TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



File:T023762 #1-924 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:76
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,304.0,1.00%,F,T) Exp:NDB5US
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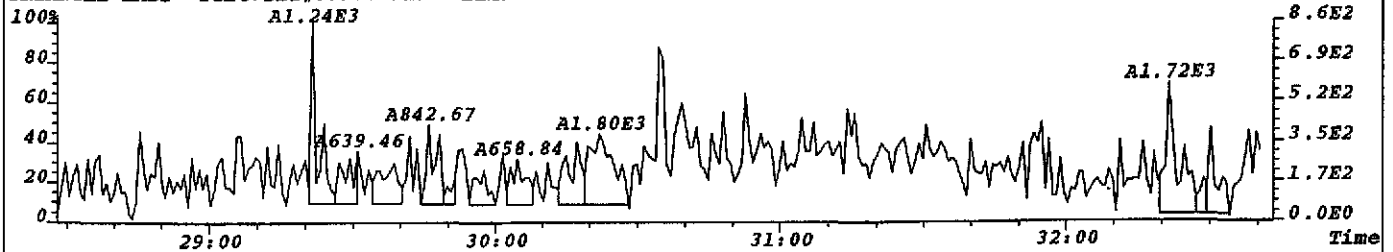


File:T023762 #1-924 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
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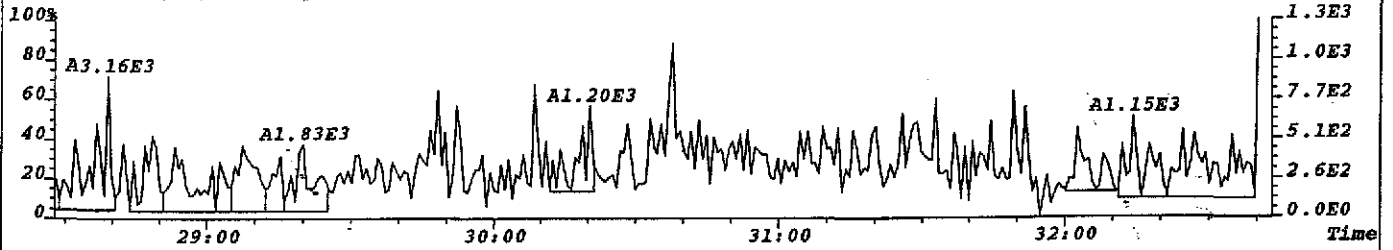


2425

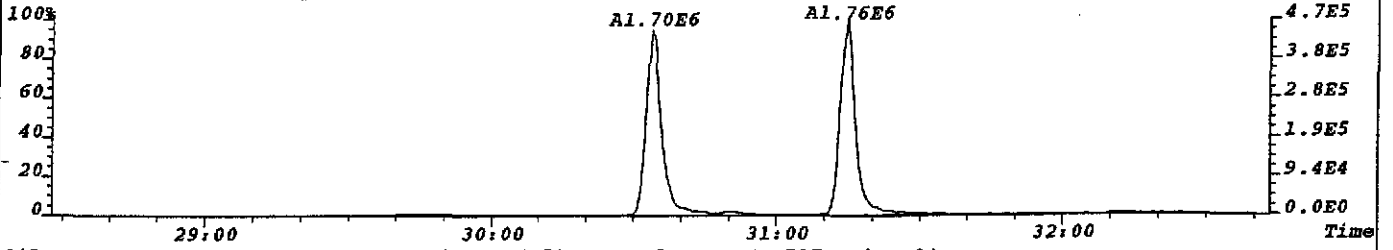
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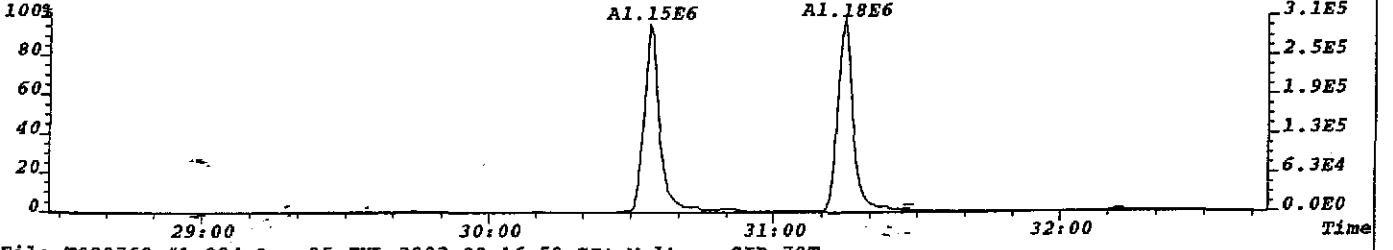
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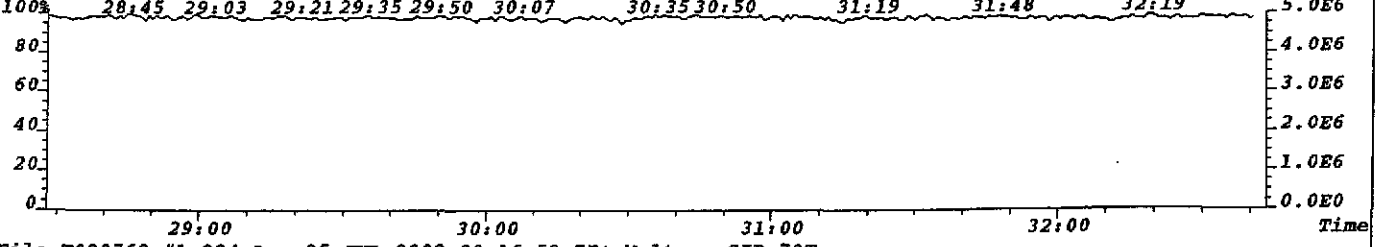
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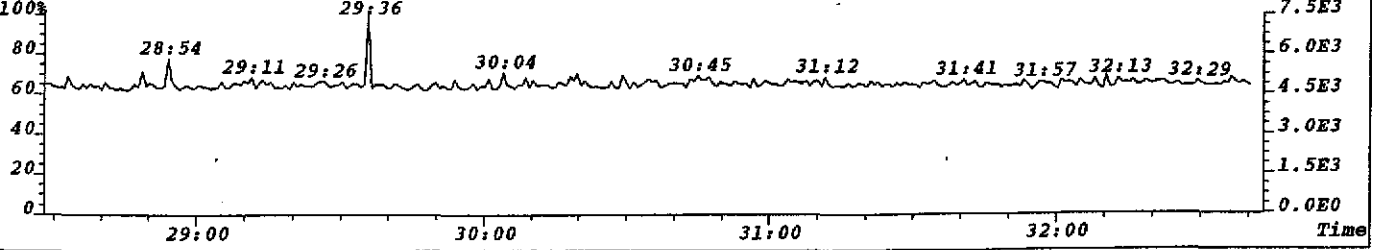
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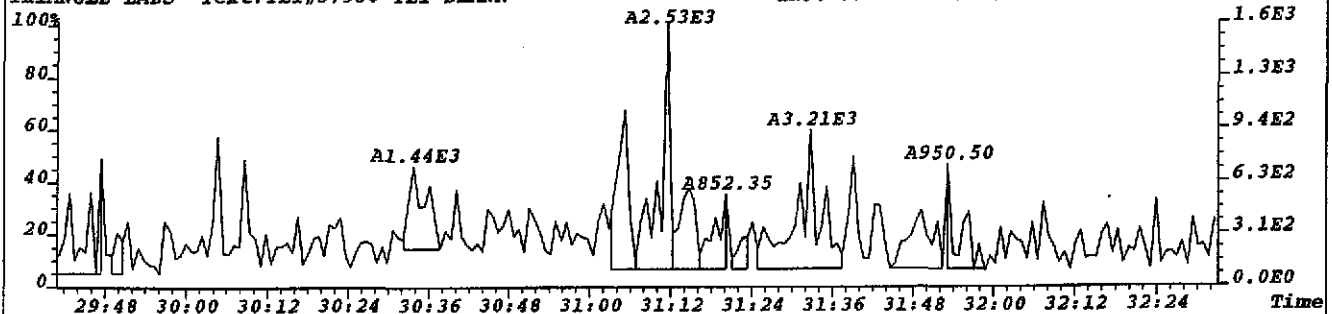
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 TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



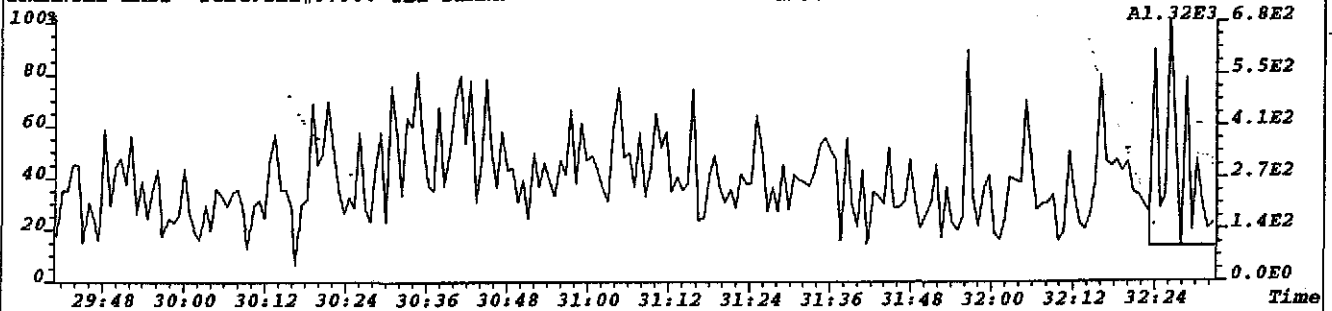
File:T023762 #1-924 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T
 409.7974 F:2 Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



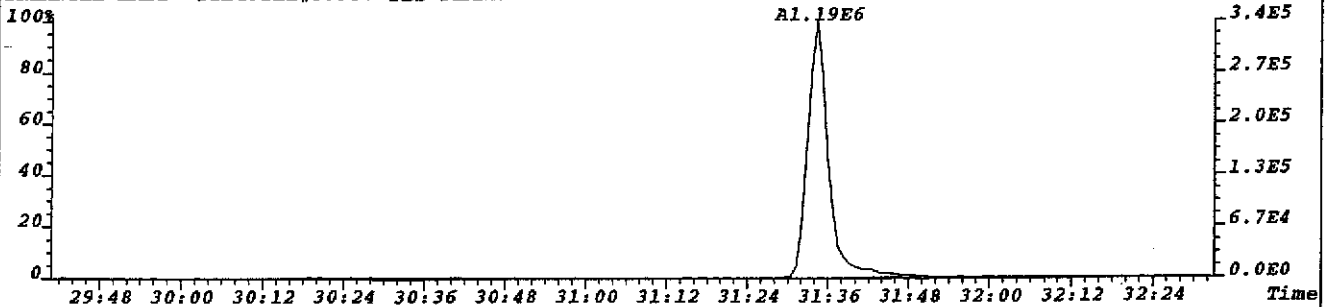
File:T023762 #1-924 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:81
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,324.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



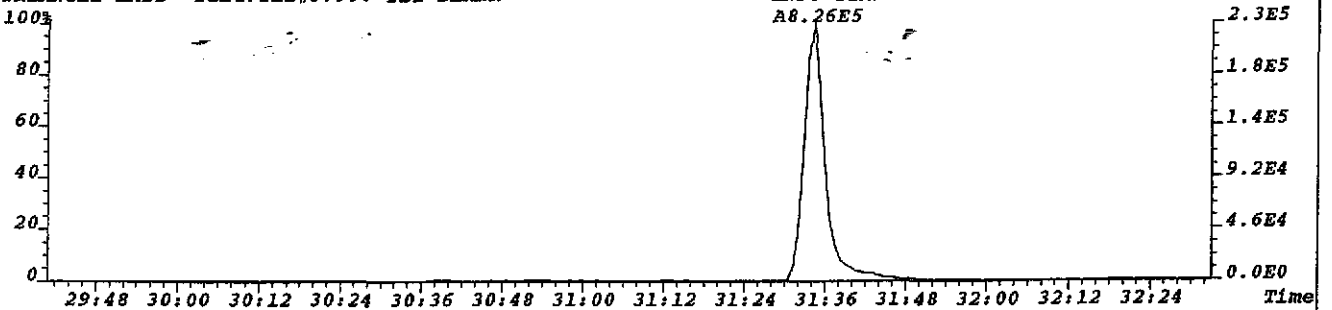
File:T023762 #1-924 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:77
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



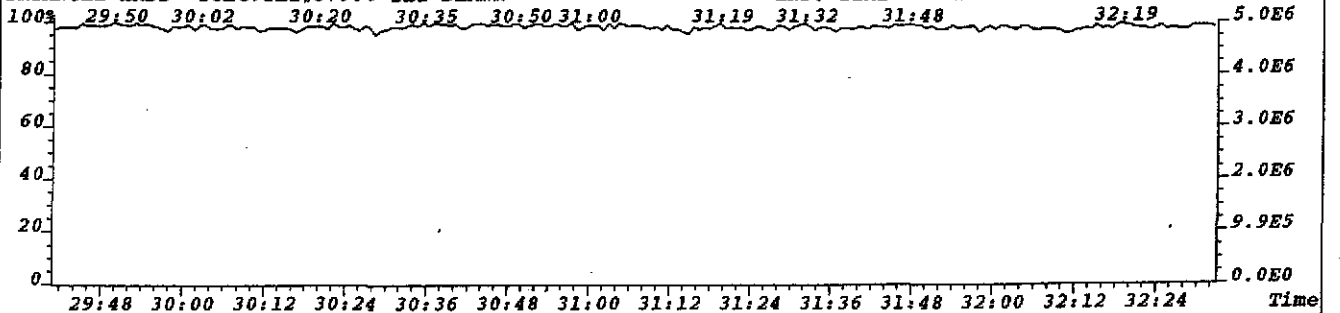
File:T023762 #1-924 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:96
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,384.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



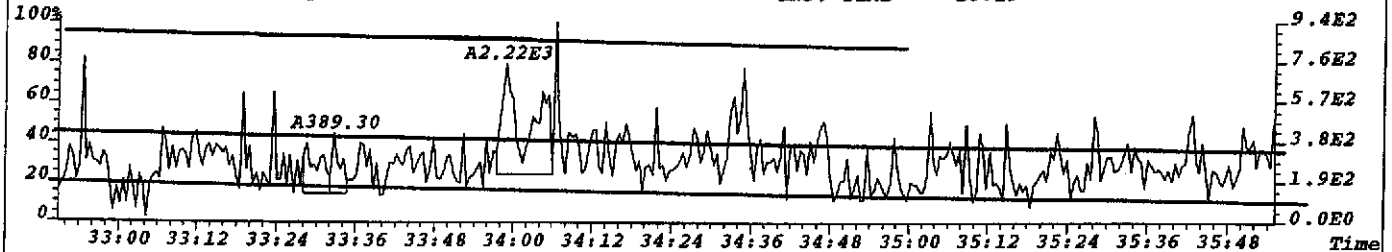
File:T023762 #1-924 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:59
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,236.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



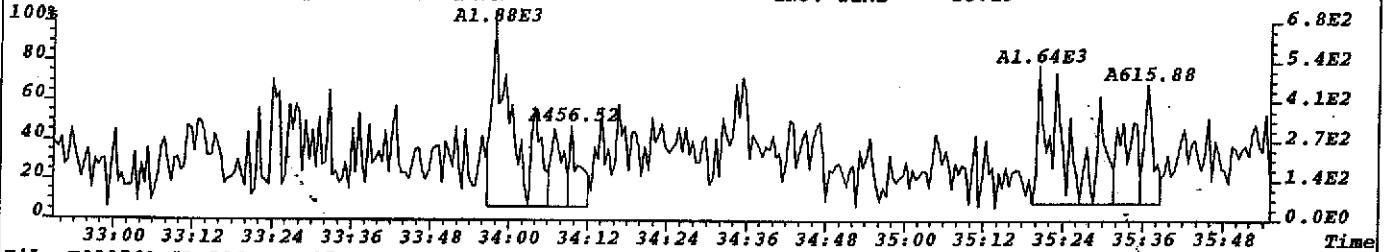
File:T023762 #1-924 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



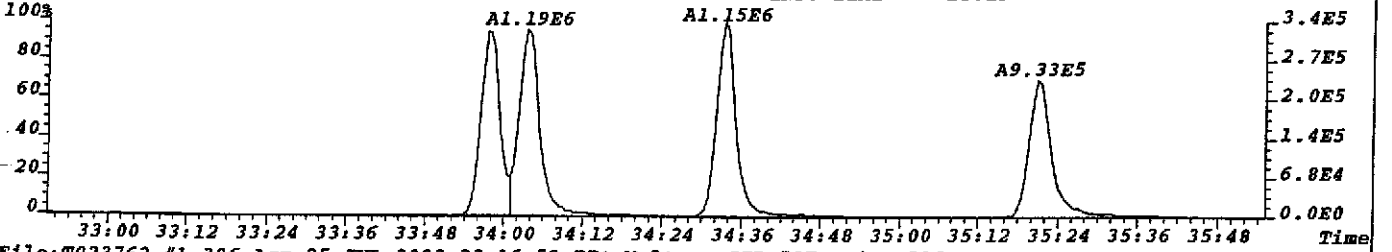
File:T023762 #1-386 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:88
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,352.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



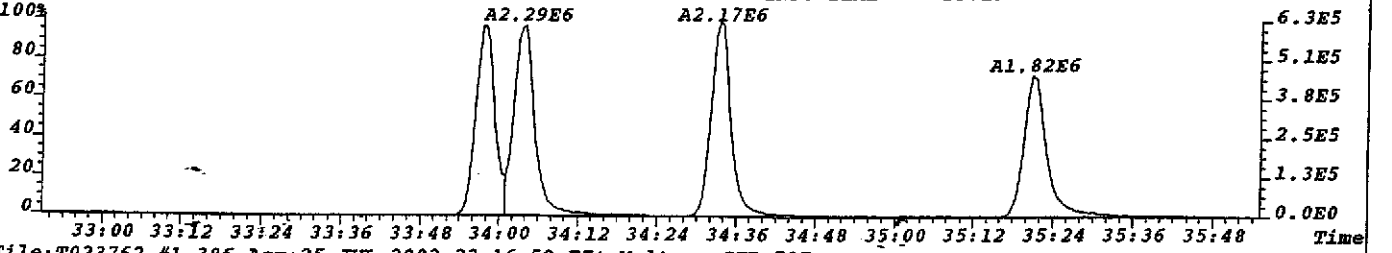
File:T023762 #1-386 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:66
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,264.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



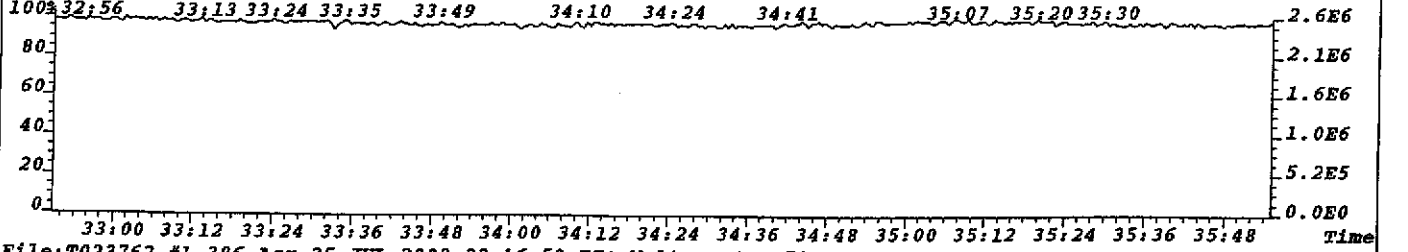
File:T023762 #1-386 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:102
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,408.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



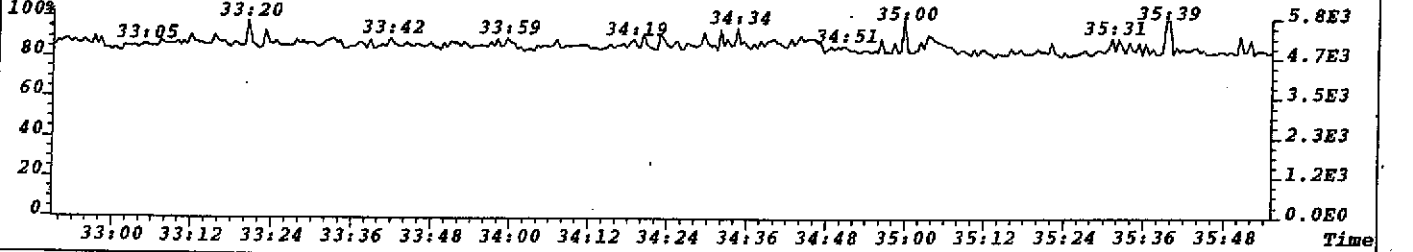
File:T023762 #1-386 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:206
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,824.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



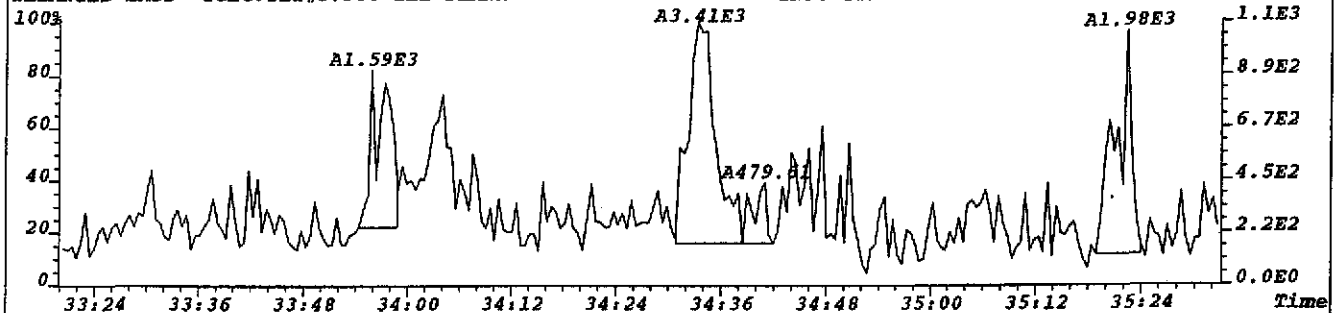
File:T023762 #1-386 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



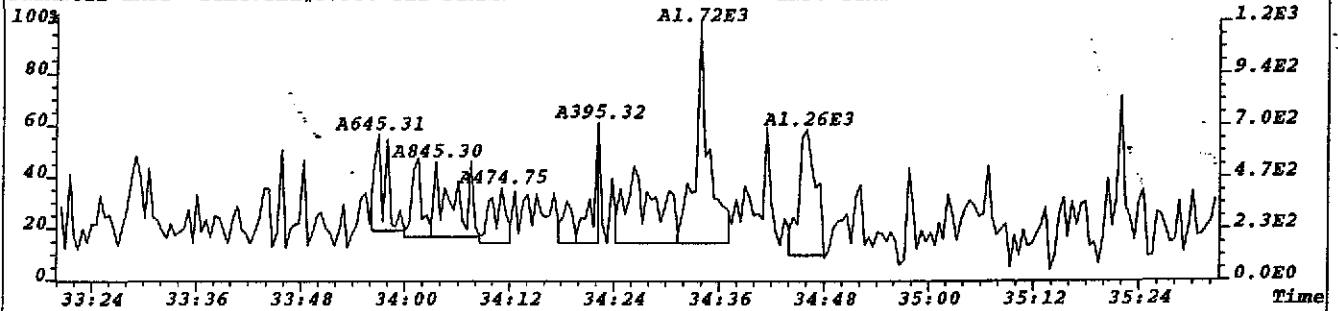
File:T023762 #1-386 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



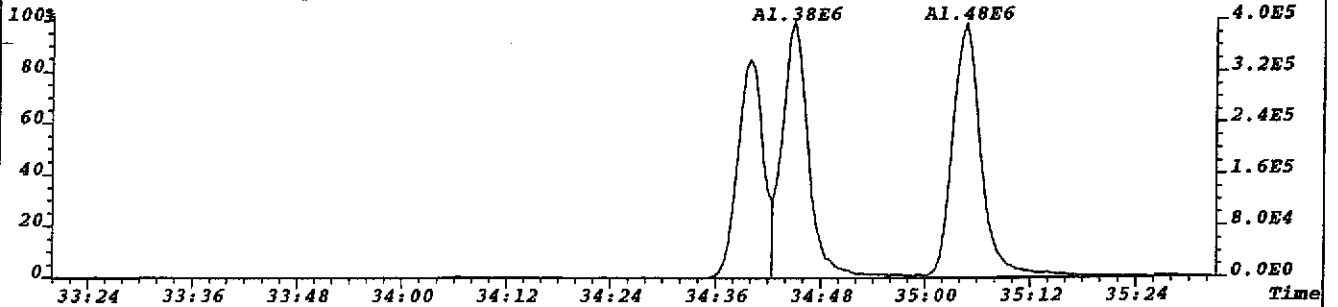
File:T023762 #1-386 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:84
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,336.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



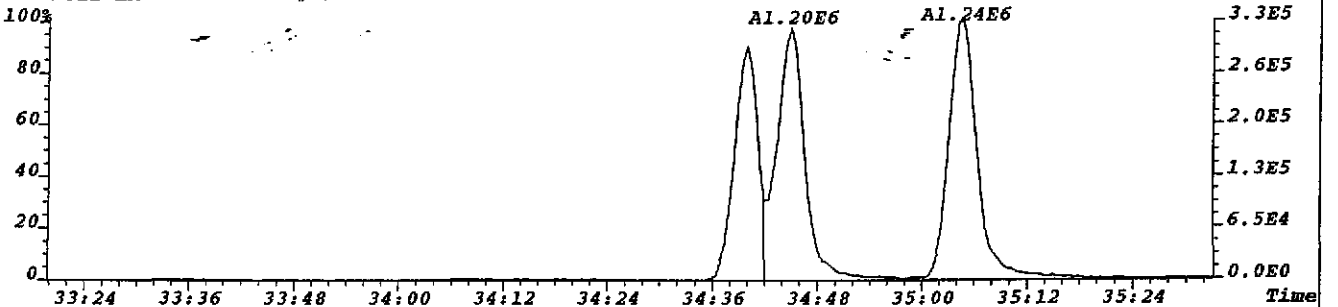
File:T023762 #1-386 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:92
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,368.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



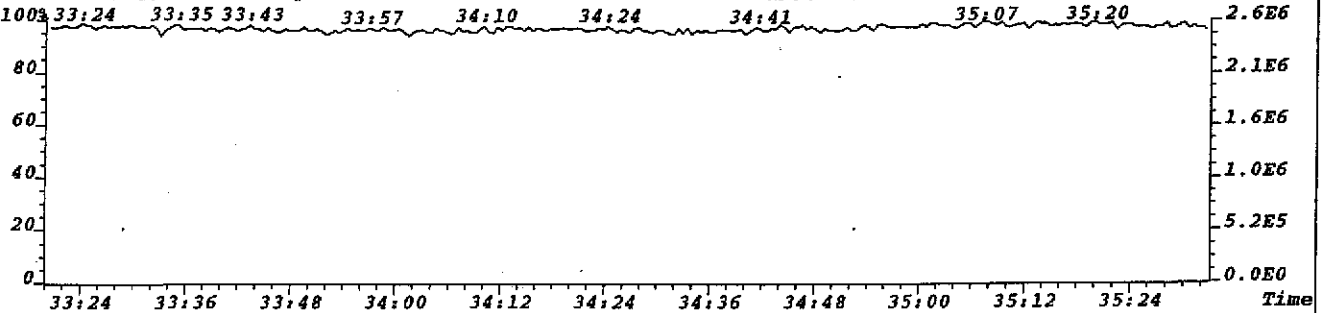
File:T023762 #1-386 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:110
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,440.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



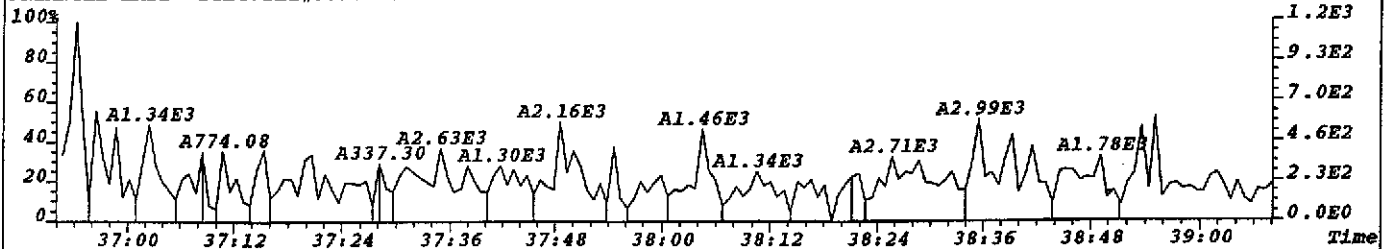
File:T023762 #1-386 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:94
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,376.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



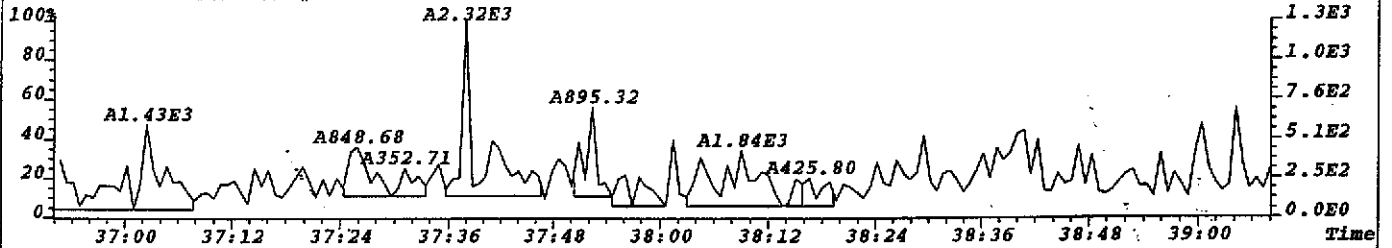
File:T023762 #1-386 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



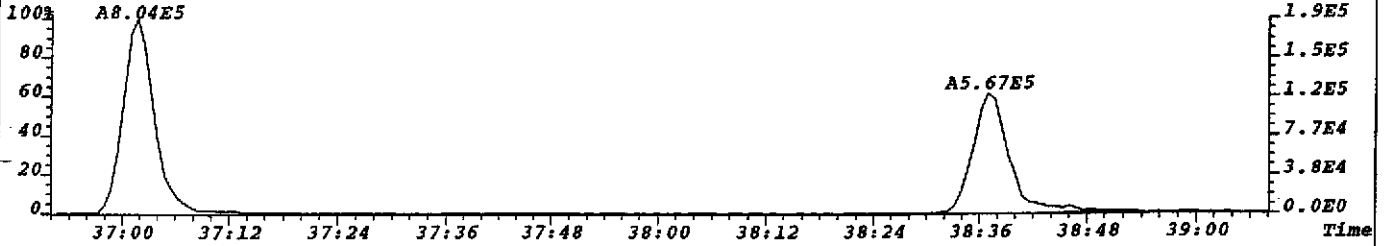
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:65
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



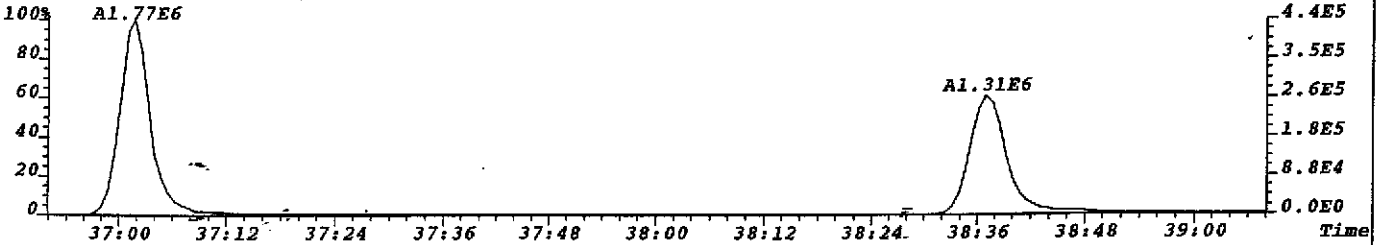
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:72
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,288.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



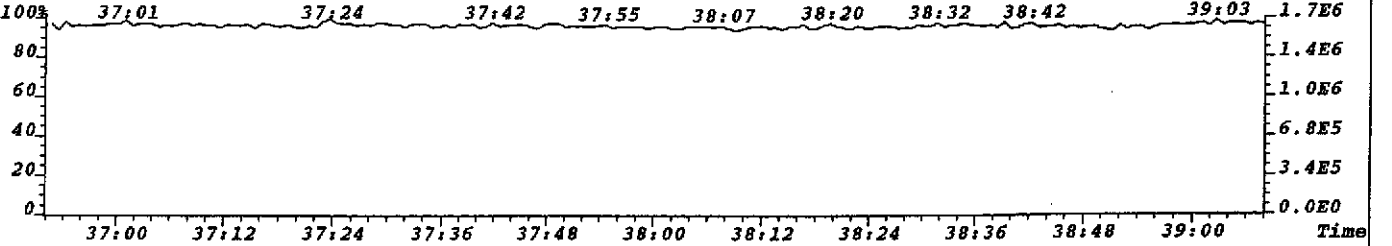
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:125
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,500.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



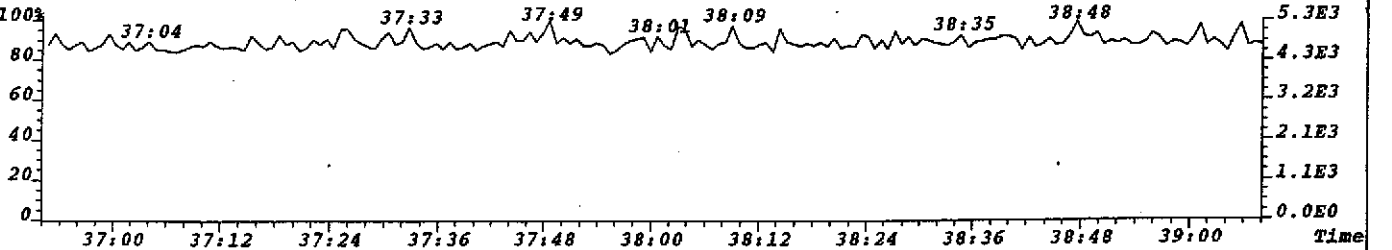
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:77
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



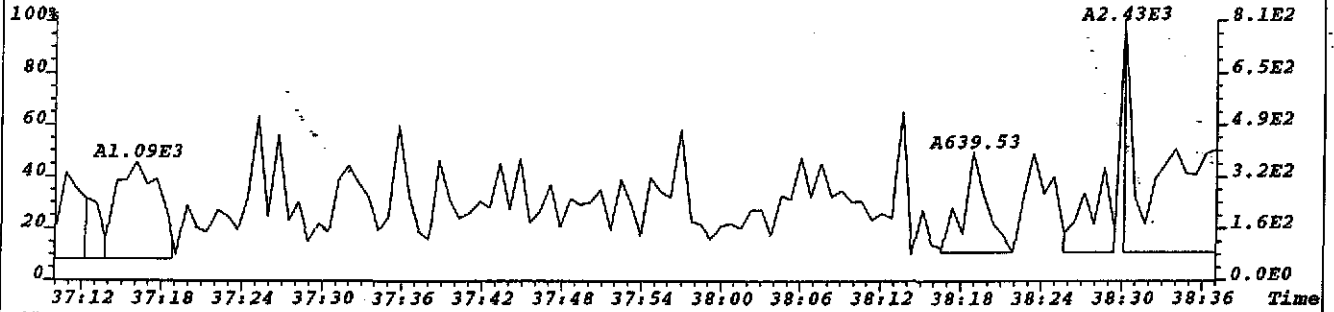
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



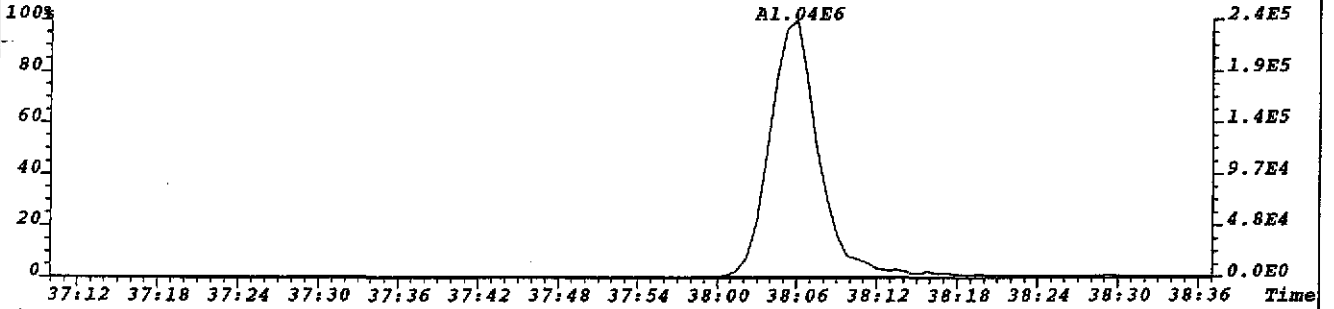
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:77
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



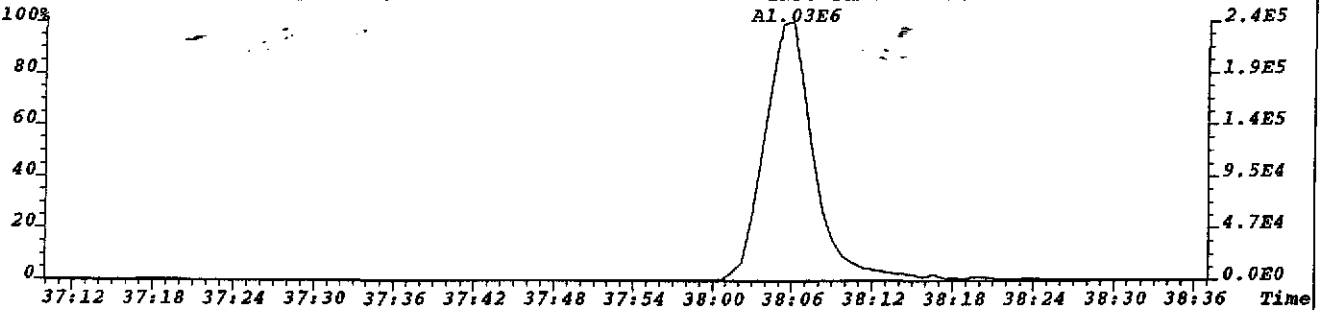
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:67
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



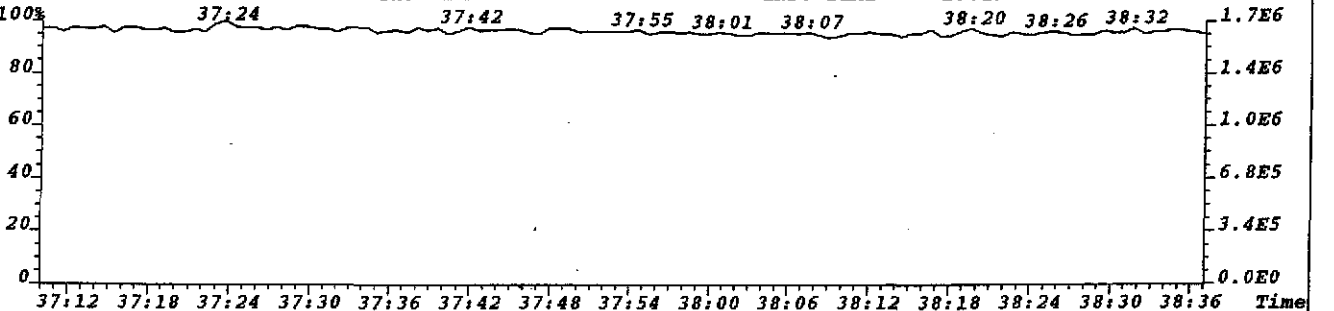
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:119
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,476.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



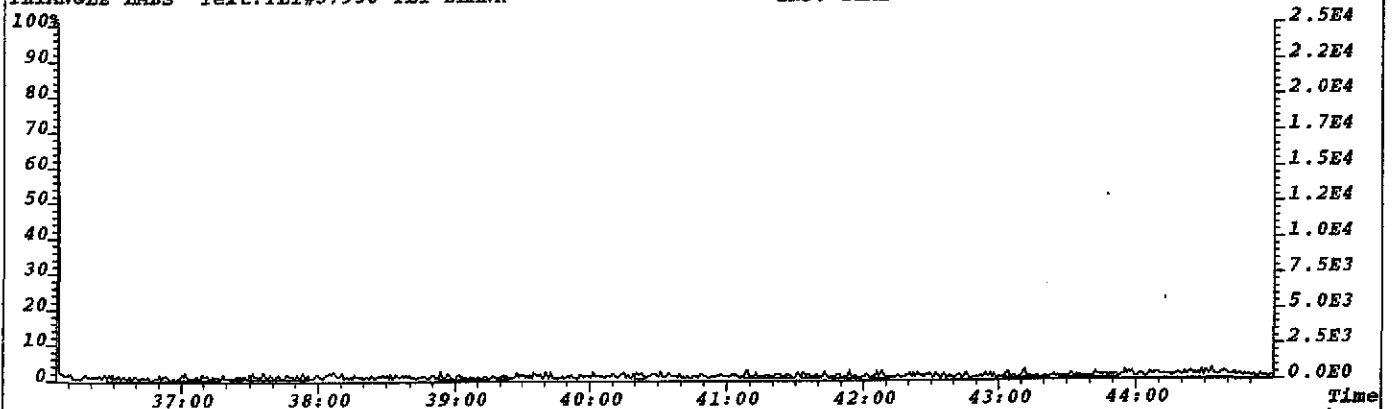
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:83
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,332.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



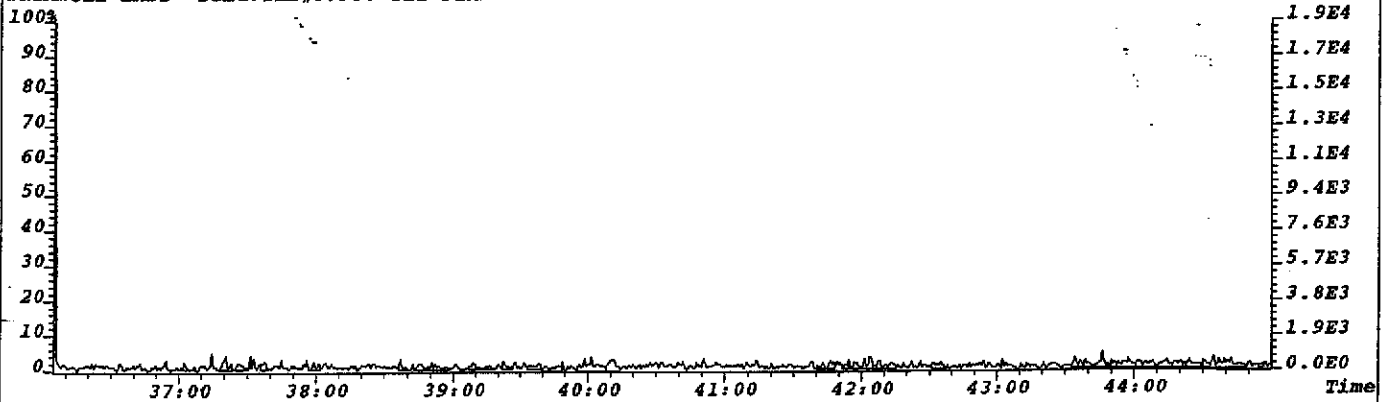
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



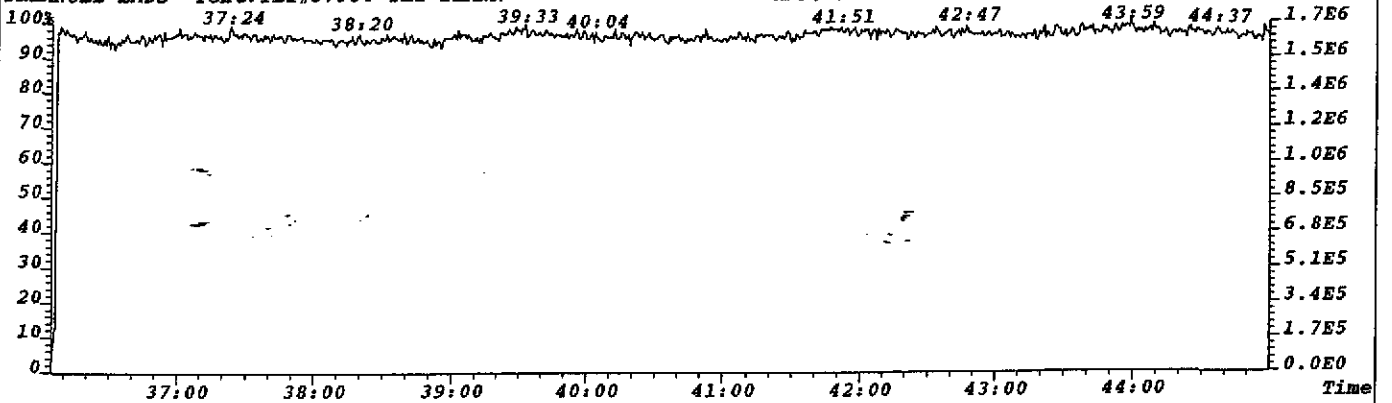
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:87
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,348.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



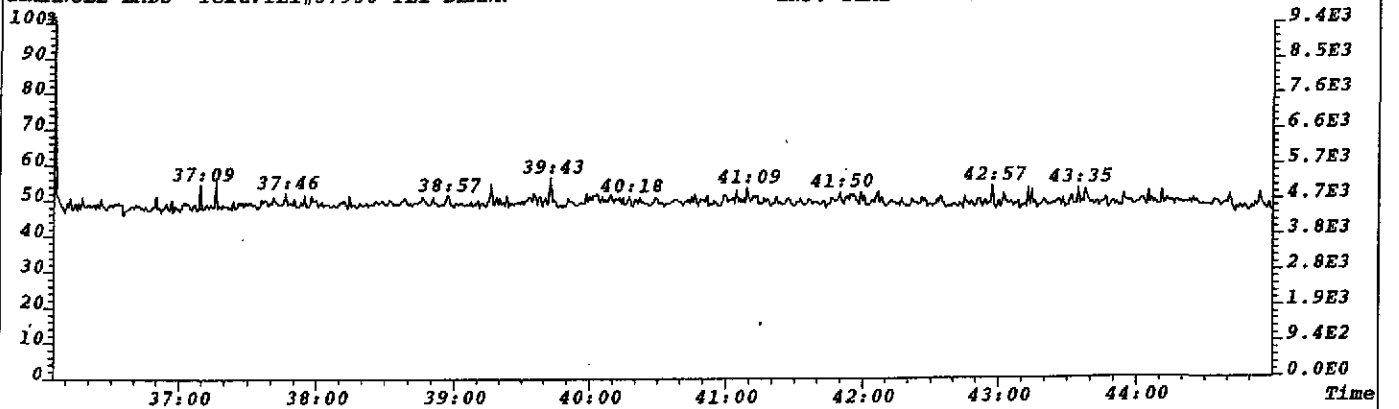
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:83
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,332.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



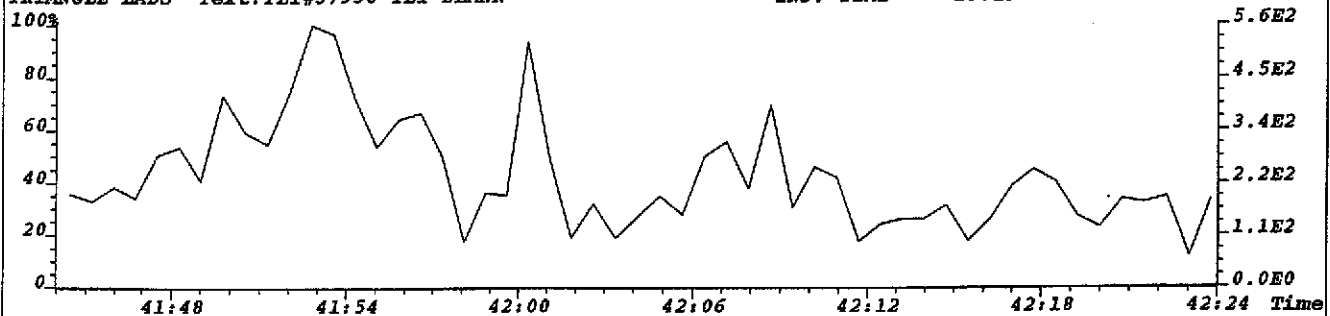
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



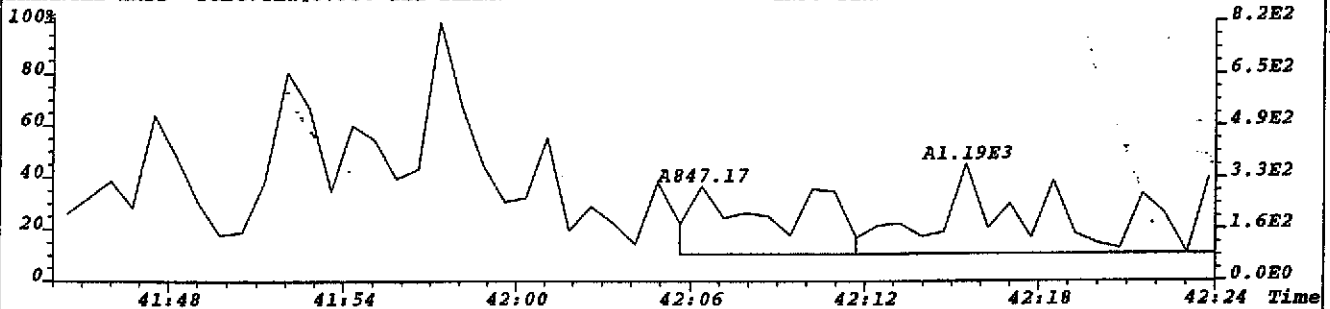
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



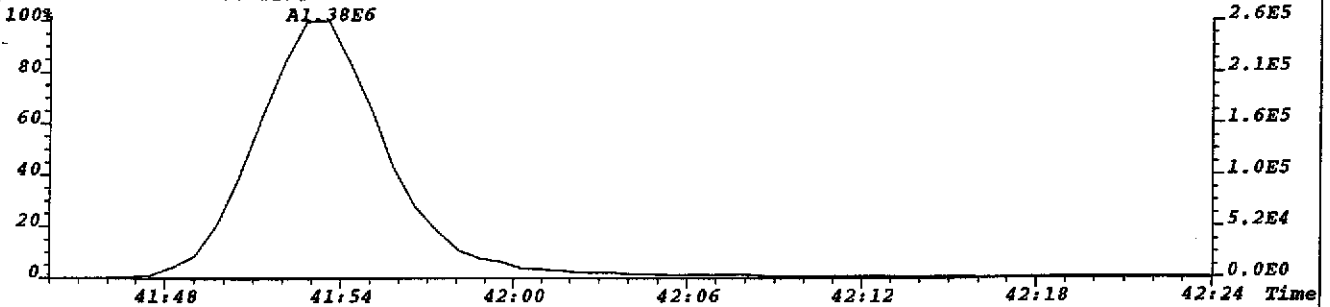
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:64
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



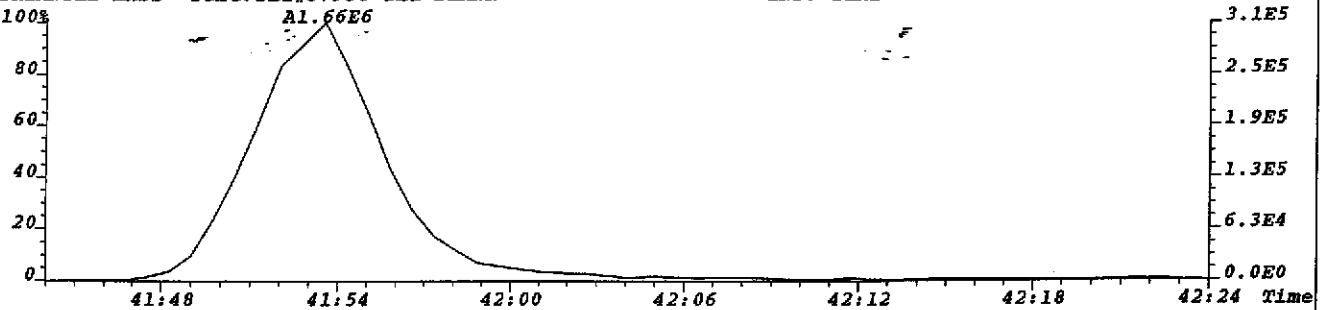
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:67
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19



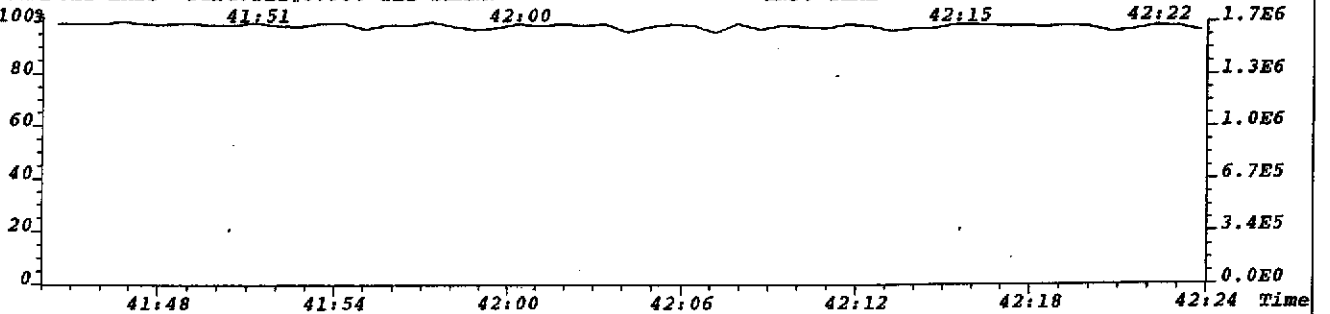
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:70
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,280.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19

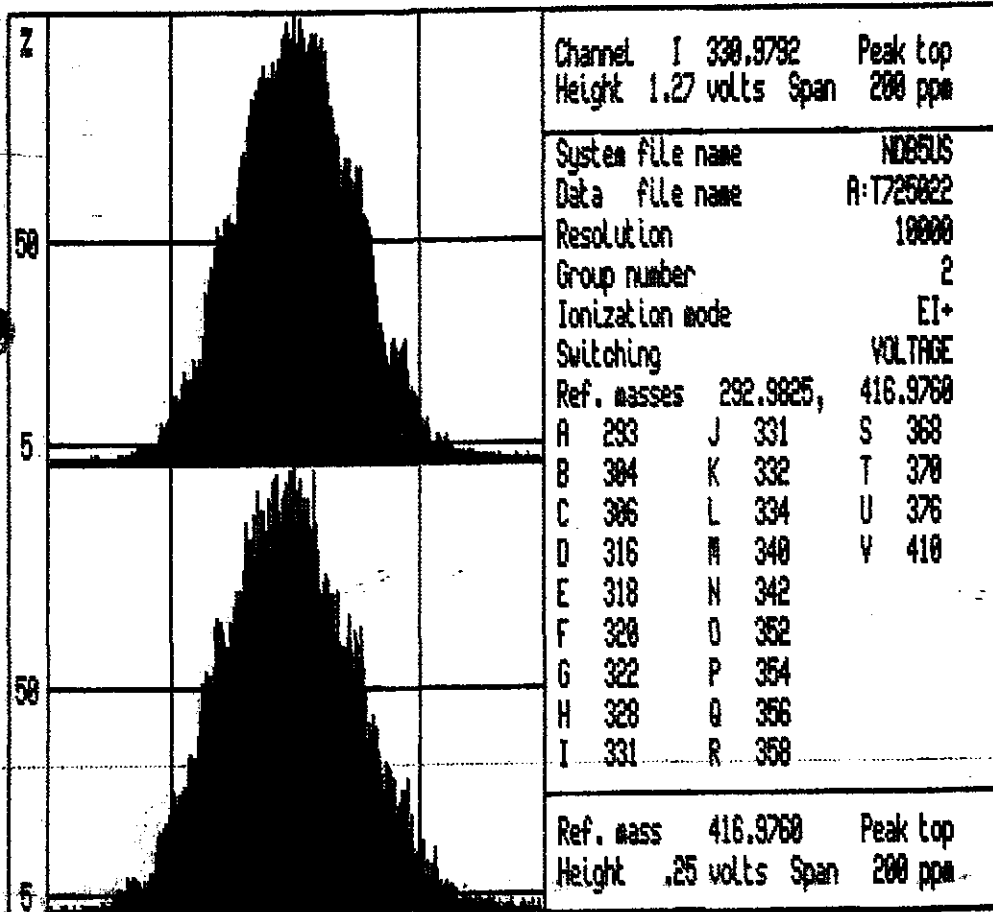


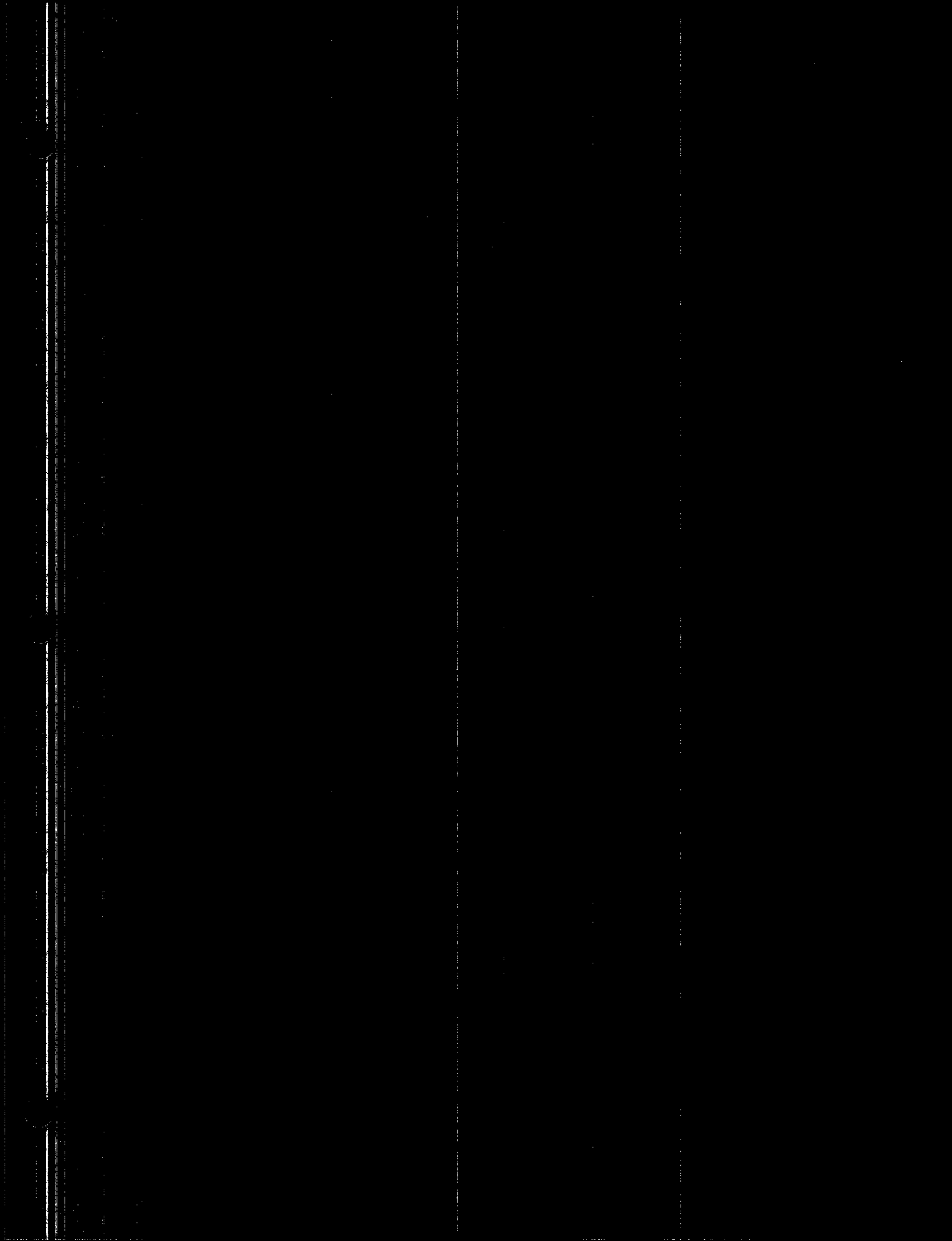
File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T Noise:65
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19

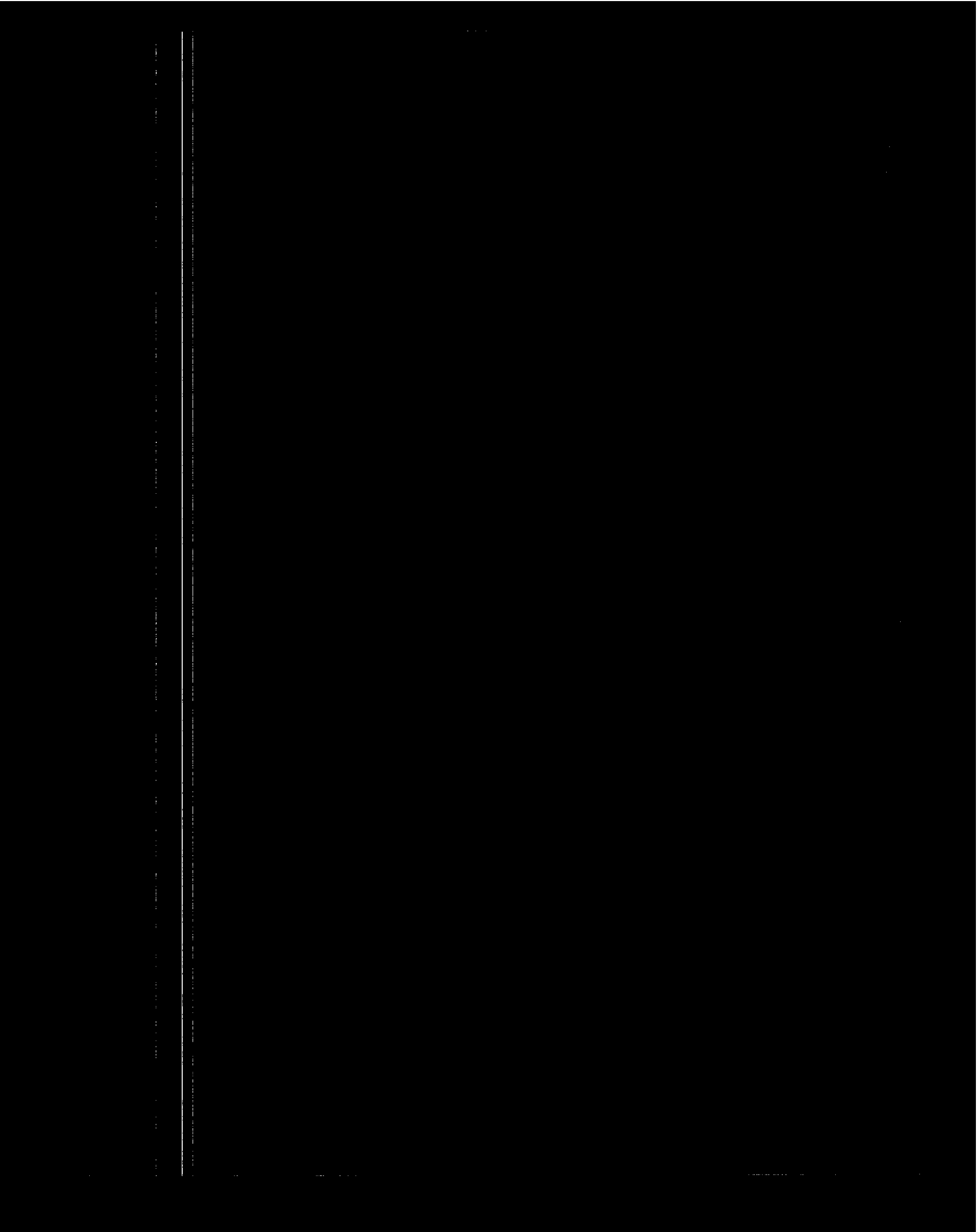


File:T023762 #1-708 Acq:25-JUL-2002 23:16:59 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 TLI BLANK INJ. TIME = 23:19









Martin & Slagle

TLI Project: 57930 1613, Revision B PCDD/PCDF Analysis (c)
 Client Sample: DF-DP220-0-0,5' Analysis File: T023763

Client Project:	Kuhlman Electric	Date Received:	07/20/2002	Spike File:	SP161B2S
Sample Matrix:	SOLID	Date Extracted:	07/23/2002	ICal:	TF5612B
TLI ID:	331-18-1	Date Analyzed:	07/26/2002	ConCal:	TB23758
Sample Size:	12.500 g	Dilution Factor:	n/a	% Moisture:	19.8
Dry Weight:	10.025 g	Blank File:	T023762	% Lipid:	n/a
GC Column:	DB-5	Analyst:	VSC	% Solids:	80.2

Analytes	Conc. (pg/g)	DL	Ratio	RT	RRT	Flags
2,3,7,8-TCDD	ND	0.7				---
1,2,3,7,8-PeCDD	ND	3.0				---
1,2,3,4,7,8-HxCDD	ND	0.2				---
1,2,3,6,7,8-HxCDD	10.1		1.05	34:47	1.000	---
1,2,3,7,8,9-HxCDD	ND	5.3				---
1,2,3,4,6,7,8-HpCDD	45.8		1.02	38:07	1.000	---
1,2,3,4,6,7,8,9-OCDD	1060		0.85	41:54	1.000	---
2,3,7,8-TCDF	22.9		0.83	26:44	1.001	---
1,2,3,7,8-PeCDF	5.8		1.42	30:35	1.000	---
2,3,4,7,8-PeCDF	13.3		1.51	31:16	1.001	---
1,2,3,4,7,8-HxCDF	36.2		1.28	33:59	1.000	---
1,2,3,6,7,8-HxCDF	15.2		1.25	34:05	1.000	---
2,3,4,6,7,8-HxCDF	14.2		1.19	34:35	1.000	---
1,2,3,7,8,9-HxCDF	ND	0.2				---
1,2,3,4,6,7,8-HpCDF	371		1.07	37:02	1.000	---
1,2,3,4,7,8,9-HpCDF	11.6		1.01	38:38	1.000	---
1,2,3,4,6,7,8,9-OCDF	133		0.87	42:07	1.005	---

Totals	Conc. (pg/g)	Number	DL	Flags
Total TCDD	ND		13.1	---
Total PeCDD	8.6	1		---
Total HxCDD	24.3	2		---
Total HpCDD	92.1	2		---
Total TCDF	429	14		---
Total PeCDF	1210	19		---
Total HxCDF	638	13		---
Total HpCDF	595	4		---

Martin & Slagle

TLI Project: 57930
 Client Sample: DF-DP220-0-0,5'

1613, Revision B PCDD/PCDF Analysis (c)
 Analysis File: T023763

Internal Standards	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	RRT	Flags
¹³ C ₁₂ -2,3,7,8-TCDD	158	79.2	25%-164%	0.81	27:24	1.007	—
¹³ C ₁₂ -1,2,3,7,8-PeCDD	182	91.0	25%-181%	1.44	31:35	1.160	—
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	179	89.8	32%-141%	1.21	34:40	0.988	—
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	187	93.7	28%-130%	1.19	34:46	0.991	—
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	183	91.6	23%-140%	1.03	38:06	1.086	—
¹³ C ₁₂ -1,2,3,4,6,7,8,9-OCDD	289	72.4	17%-157%	0.85	41:54	1.194	—
¹³ C ₁₂ -2,3,7,8-TCDF	185	92.6	24%-169%	0.74	26:43	0.982	—
¹³ C ₁₂ -1,2,3,7,8-PeCDF	182	91.3	24%-185%	1.44	30:35	1.124	—
¹³ C ₁₂ -2,3,4,7,8-PeCDF	183	91.8	21%-178%	1.48	31:15	1.148	—
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	207	104	26%-152%	0.52	33:58	0.968	—
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	210	105	26%-123%	0.52	34:04	0.971	—
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	208	104	28%-136%	0.51	34:34	0.985	—
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	208	104	29%-147%	0.52	35:21	1.008	—
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	218	109	28%-143%	0.44	37:02	1.056	—
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	179	89.6	26%-138%	0.45	38:38	1.101	—

Cleanup Standard	Conc. (pg/g)	% Recovery	QC Limits	RT	RRT	Flags
³⁷ Cl ₄ -2,3,7,8-TCDD	16.9	84.8	35%-197%	27:26	1.008	—

Recovery Standards	Ratio	RT	Flags
¹³ C ₁₂ -1,2,3,4-TCDD	0.79	27:13	—
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.20	35:05	—

Data Reviewer: DEM 07/26/2002

TLI Project: 57930
 Client Sample: DF-DP220-0-0,5'

Toxicity Equivalents Report
 Analysis File: T023763

Client Project:	Kuhlman Electric	Date Received:	07/20/02	Spike File:	SP161B2S
Sample Matrix:	SOLID	Date Extracted:	07/23/02	ICal:	TF5612B
TLI ID:	331-18-1	Date Analyzed:	07/26/02	ConCal:	TB23758
Sample Size:	12.500 g	Dilution Factor:	1	% Moisture:	19.8
Dry Weight:	10.025 g	Blank File:	T023762	% Lipid:	n/a
GC Column:	DB-5	Analyst:	VSC	% Solids:	80.2

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	{0.7}	x	1.	=	0.7
1,2,3,7,8-PeCDD	{3.0}	x	0.5	=	1.5
1,2,3,4,7,8-HxCDD	{0.2}	x	0.1	=	0.02
1,2,3,6,7,8-HxCDD	10.1	x	0.1	=	1.01
1,2,3,7,8,9-HxCDD	{5.3}	x	0.1	=	0.53
1,2,3,4,6,7,8-HpCDD	45.8	x	0.01	=	0.458
1,2,3,4,6,7,8,9-OCDD	1060	x	0.001	=	1.060
TOTAL PCDD					5.3
2,3,7,8-TCDF	13.3	x	0.1	=	1.33
1,2,3,7,8-PeCDF	5.8	x	0.05	=	0.29
2,3,4,7,8-PeCDF	13.3	x	0.5	=	6.65
1,2,3,4,7,8-HxCDF	36.2	x	0.1	=	3.62
1,2,3,6,7,8-HxCDF	15.2	x	0.1	=	1.52
2,3,4,6,7,8-HxCDF	14.2	x	0.1	=	1.42
1,2,3,7,8,9-HxCDF	{0.2}	x	0.1	=	0.02
1,2,3,4,6,7,8-HpCDF	371	x	0.01	=	3.71
1,2,3,4,7,8,9-HpCDF	11.6	x	0.01	=	0.116
1,2,3,4,6,7,8,9-OCDF	133	x	0.001	=	0.133
TOTAL PCDF					18.81

Total EPA TEFs, 1989a: 24.1 pg/g

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

InitialDate...

Data Review By:

QEM 7/26/02

Calculated Noise Height: 0.06

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07/26/2002

Listing of T023763B.dbf
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	0.19	0.11	0.08
D	D	WL	23:33	0.84	106.47		0.881
			24:02	RO 1.00	29.64	14.84	14.80 0.900
			24:14	0.72	14.32	6.00	8.32 0.907
			24:23	0.80	7.69	3.42	4.27 0.913
			24:37	0.80	41.75	18.59	23.16 0.921
			24:47	RO 0.90	25.54	12.12	13.42 0.928
			25:05	0.80	15.83	7.03	8.80 0.939
			25:14	0.80	83.76	37.20	46.56 0.944
			25:27	RO 0.93	23.83	11.49	12.34 0.953
			25:47	0.81	57.63	25.78	31.85 0.965
			26:07	0.73	89.32	37.77	51.55 0.978
			26:18	0.83	110.96	50.24	60.72 0.984
			26:33	0.85	29.19	13.45	15.74 0.994
A			26:39	RO 0.90	22.80	10.80	12.00 0.998
M			26:44	0.83	75.60	34.30	41.30 1.001 2378-TCDF AN
			27:09	0.86	23.99	11.12	12.87 1.016
			27:35	0.82	83.45	37.48	45.97 1.032
			27:54	0.81	775.90	347.01	428.89 1.044
			28:16	RO 1.22	2.53	1.39	1.14 1.058
		X	28:34	0.79	6.62	2.92	3.70 1.069
304-306			19 Peaks		1,520.35		
13C12-TCDF		0.65-0.89			0.944-1.131		
316-318		DC	NL	Height	0.16	0.08	0.08
			25:44	RO 0.49	1.36	0.45	0.91 0.963
			26:19	0.68	5.25	2.12	3.13 0.985
			26:43	0.74	622.37	264.67	357.70 1.000 13C12-2378-TCDF ISO
				Height	157.86	66.03	91.83
			27:01	RO 0.47	3.41	1.09	2.32 1.011
			27:15	RO 1.27	1.93	1.08	0.85 1.020
316-318			5 Peaks		634.32		

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

TCDD		0.65-0.89			0.905-1.042		
320-322		DC	NL	Height	0.15	0.07	0.08
			25:12	RO 1.15	0.28		0.920
D	D	SN	25:21	0.67	0.72		0.925 1379-TCDD AN
D	D	SN	25:38	RO 0.51	0.65		0.936
			26:27	0.89	0.53		0.965
D	D	SN	26:32	RO 1.27	0.50		0.968
			26:56	RO 1.38	0.95		0.983
			27:04	RO 1.07	0.31		0.988
NM			27:23	RO 1.40	3.17	1.85	1.32 0.999
AN			27:26	RO 1.13	1.64	0.87	0.77 1.001 2378-TCDD 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.

			27:32	RO	1.40	1.80	1.05	0.75	1.005		
M			27:50	RO	1.18	9.01	4.88	4.13	1.016		
			27:58	RO	1.53	14.96	9.04	5.92	1.021		
	DC	SN	28:08	RO	0.13	1.08			1.027		
	DC	SN	28:17		0.85	0.48			1.032		
			28:24	RO	1.13	1.34	0.71	0.63	1.036		
	DC	WH	28:36	RO	0.95	7.31			1.044		
	DC	WH	28:55	RO	1.43	4.28			1.055		
320-322			6 Peaks			31.92					

37Cl-TCDD								0.927-1.073			
328	DC	NL			Height	0.08	0.08				
			25:46			1.97	1.97	0.940			
			26:04			219.34	219.34	0.951			
			26:30			2.20	2.20	0.967			
			27:19			10.43	10.43	0.997			
			27:26			48.02	48.02	1.001	37Cl-TCDD		CLS
			27:47			2,019.64	2,019.64	1.014			
			28:43			10.44	10.44	1.048			
328			7 Peaks			2,312.04					

13Cl2-TCDD								0.920-1.066			
332-334	DC	NL			Height	0.25	0.18	0.07			
			27:13			512.62	226.68	285.94	0.993	13Cl2-1234-TCDD	RS1
			27:24			458.18	205.69	252.49	1.000	13Cl2-2378-TCDD	IS1
					Height	119.03	53.12	65.91			
332-334			2 Peaks			970.80					

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

PeCDF								0.911-1.036			
340-342	DC	NL			Height	0.15	0.07	0.08			
			28:31			69.67	41.88	27.79	0.913		
			28:41			90.53	54.83	35.70	0.918		
			28:54			183.95	110.72	73.23	0.925		
			29:12			7.30	4.57	2.73	0.934		J
			29:19			67.44	40.92	26.52	0.938		
			29:45			224.32	135.47	88.85	0.952		
			29:54			1,235.89	742.18	493.71	0.957		
			30:06			480.24	287.68	192.55	0.963		
N			30:28			888.84	533.86	354.98	0.996		
AN			30:35			17.89	10.50	7.39	1.000	12378-PeCDF	AN
			30:46			6.96	4.08	2.88	0.985		J
			30:52			36.56	22.02	14.54	0.988		
A			31:10			20.44	12.10	8.34	0.997		
			31:16			41.06	24.71	16.35	1.001	23478-PeCDF	AN
			31:27			87.11	52.86	34.25	1.006		
	X		31:35			14.22	8.58	5.64	1.011		J
			31:52			31.42	19.21	12.21	1.020		
	X		31:58			19.64	11.96	7.68	1.023		
			32:05			211.75	125.73	86.02	1.027		
340-342			19 Peaks			3,735.23					

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			0.807-1.127		
352-354	DC NL	Height	0.14	0.07	0.07		
		29:53 RO 0.22	14.31	2.60	11.71	0.956	
		30:06 RO 0.16	4.42	0.61	3.81	0.963	
		30:13 RO 0.48	4.44	1.44	3.00	0.967	
		30:35 1.44	543.84	320.94	222.90	1.000 13C12-PeCDF 123 IS2	
		Height	156.61	92.33	64.28		
		31:15 1.48	557.62	332.36	225.26	1.000 13C12-PeCDF 234 IS3	
		Height	163.84	96.84	67.00		
		31:35 RO 1.27	4.23	2.37	1.86	1.011	
		31:43 RO 1.30	2.97	1.68	1.29	1.015	
		31:52 RO 0.57	20.95	7.62	13.33	1.020	
		32:10 RO 1.02	19.16	9.69	9.47	1.029	
352-354	9 Peaks		1,171.94				

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

PeCDD		1.32-1.78			0.940-1.021		
356-358	DC NL	Height	0.15	0.08	0.07		
D	D SN	30:19 RO 1.09	2.68		0.960		
		30:32 RO 0.41	8.96	2.59	6.37	0.967	
		30:42 RO 0.79	6.92	3.06	3.86	0.972	
		31:11 RO 0.95	8.32	4.05	4.27	0.987	
		31:35 RO 0.89	6.05	2.85	3.20	1.000 12378-PeCDD AN	
		31:52 1.70	17.36	10.93	6.43	1.009	
		31:58 RO 0.80	7.22	3.20	4.02	1.012	
A		32:10 RO 1.05	20.08	10.30	9.78	1.018	
	DC WH	32:19 RO 0.73	1.94		1.023		
	DC WH	32:28 RO 0.98	1.19		1.028		
356-358	7 Peaks		74.91				

13C12-PeCDD		1.32-1.78			0.735-1.052		
368-370	DC NL	Height	0.15	0.08	0.07		
		30:31 RO 0.95	1.21	0.59	0.62	0.966	
		30:40 RO 0.43	4.04	1.21	2.83	0.971	
		31:23 RO 0.05	13.80	0.61	13.19	0.994	
		31:35 1.44	387.60	228.59	159.01	1.000 13C12-PeCDD 123 IS4	
		Height	111.31	66.67	44.64		
		32:11 RO 0.31	6.90	1.64	5.26	1.019	
	DC SN	32:23 RO 0.06	3.31		1.025		
368-370	5 Peaks		413.55				

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

HxCDF		1.05-1.43			0.929-1.007		
374-376	DC NL	Height	0.70	0.41	0.29		
D	D WL	32:53 1.29	13.28		0.930		
	X	33:04 1.27	156.32	87.51	68.81	0.935	
		33:09 1.26	278.10	154.85	123.25	0.938	
		33:17 1.27	166.81	93.43	73.38	0.942	
		33:25 1.24	50.90	28.21	22.69	0.945	
		33:36 1.26	572.18	319.19	252.99	0.950	

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.

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
					33:47		1.27	31.62	17.68	13.94	0.956			
MN					33:55		1.25	565.00	314.00	251.00	0.999			
AN					33:59		1.28	121.50	68.10	53.40	0.961	123478-HxCDF	AN	
					34:05		1.25	53.64	29.85	23.79	1.000	123678-HxCDF	AN	
					34:21		1.12	7.99	4.22	3.77	0.972			J
					34:35		1.19	46.09	25.09	21.00	1.000	234678-HxCDF	AN	
DC	SN				35:04		1.21	2.08			0.992			
	X				35:13		1.39	6.78	3.94	2.84	0.996			J
					35:17	RO	0.96	6.29	3.08	3.21	0.998			
					35:25		1.37	20.98	12.13	8.85	1.002			
374-376					14 Peaks			2,084.20						

Compound	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						0.879-1.105			
384-386	DC	NL			Height			0.46	0.16	0.30				
					33:58		0.52	595.75	204.27	391.48	1.000	13C12-HxCDF 478	IS5	
					Height			183.96	62.92	121.04				
					34:04		0.52	611.28	207.87	403.41	1.000	13C12-HxCDF 678	IS6	
					Height			185.92	63.15	122.77				
DC	SN				34:18	RO	0.10	1.33			0.970			
DC	SN				34:23	RO	1.53	1.14			0.973			
DC	SN				34:25	RO	1.36	0.66			0.974			
					34:34		0.51	593.48	201.17	392.31	1.000	13C12-HxCDF 234	IS7	
					Height			176.25	59.39	116.86				
					35:21		0.52	497.88	170.22	327.66	1.000	13C12-HxCDF 789	IS8	
					Height			131.05	46.06	84.99				
DC	SN				35:41	RO	0.60	1.41			1.009			
384-386					4 Peaks			2,298.39						

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

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
HxCDD					1.05-1.43						0.959-1.013			
390-392	DC	NL			Height			0.83	0.43	0.40				
M					33:30		1.29	31.40	17.70	13.70	0.964			
	DC	SN			33:47	RO	0.47	5.50			0.972			
M					33:56	RO	1.03	7.51	3.81	3.70	0.976			
M					34:10	RO	0.89	85.90	40.50	45.40	0.983			
					34:20	RO	0.70	5.25	2.17	3.08	0.988			
M					34:47		1.05	23.00	11.80	11.20	1.000	123678-HxCDD	AN	
A					34:51	RO	0.91	5.76	2.75	3.01	1.002			
M					35:06	RO	1.02	12.14	6.13	6.01	1.010	123789-HxCDD	AN	
	DC	WH			35:17	RO	0.69	23.13			1.015			
	DC	WH			35:23	RO	0.34	9.85			1.018			
	DC	WH			35:34	RO	0.67	29.24			1.023			
390-392					7 Peaks			170.96						

Compound	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						0.983-1.041			
402-404	DC	NL			Height			0.24	0.12	0.12				
	DC	WL			33:46	RO	0.01	17.87			0.974			
					34:40		1.21	382.05	209.07	172.98	1.000	13C12-HxCDD 478	IS9	
					Height			121.46	67.00	54.46				
					34:46		1.19	435.74	236.73	199.01	1.000	13C12-HxCDD 678	IS10	
					Height			128.73	69.77	58.96				

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.

			35:05	1.20	485.07	264.29	220.78	1.012	13C12-HxCDD 789	RS2
			35:22	RO 0.03	19.48	0.62	18.86	1.020		
402-404			4 Peaks		1,322.34					

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

HpCDF			0.88-1.20				0.955-1.005			
408-410	DC	NL	Height		0.22	0.15	0.07			
	DC	WL	36:51	RO 1.38	8.82		0.954			
			37:02	1.07	1,108.62	573.16	535.46	1.000	1234678-HpCDF	AN
			37:20	1.18	9.31	5.04	4.27 0.966			J
			37:28	1.05	511.96	262.64	249.32 0.970			
			38:38	1.01	22.60	11.38	11.22 1.000		1234789-HpCDF	AN
408-410			4 Peaks		1,652.49					

13C12-HpCDF			0.37-0.51				0.856-1.141			
418-420	DC	NL	Height		0.22	0.07	0.15			
			37:02	0.44	442.36	136.14	306.22	1.000	13C12-HpCDF 678	IS11
			Height		121.07	37.09	83.98			
			38:38	0.45	291.05	90.12	200.93	1.000	13C12-HpCDF 789	IS12
			Height		65.75	20.24	45.51			
418-420			2 Peaks		733.41					

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

HpCDD			0.88-1.20				0.976-1.005			
424-426	DC	NL	Height		0.28	0.14	0.14			
			37:20	1.00	75.95	38.02	37.93 0.980			
	D	NH	37:45	RO 0.49	2.53		0.991			
			38:07	1.02	75.26	37.99	37.27	1.000	1234678-HpCDD	AN
424-426			2 Peaks		151.21					

13C12-HpCDD			0.88-1.20				0.868-1.078			
436-438	DC	NL	Height		0.28	0.13	0.15			
	DC	SN	37:18	0.92	0.94		0.979			
	DC	SN	37:32	RO 0.52	0.32		0.985			
	DC	SN	37:36	RO 0.11	0.71		0.987			
			38:06	1.03	350.65	178.13	172.52	1.000	13C12-HpCDD 678	IS13
			Height		85.80	43.93	41.87			
436-438			1 Peak		350.65					

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

OCDF			0.76-1.02				0.952-1.048			
442-444	DC	NL	Height		0.17	0.08	0.09			
	DC	WL	36:24	RO 1.12	1.10		0.869			
	DC	WL	36:31	RO 2.78	0.34		0.872			
	DC	WL	36:43	0.96	3.66		0.876			
	DC	WL	36:51	RO 0.35	0.42		0.879			
	DC	WL	37:04	RO 1.53	0.38		0.885			
	DC	WL	38:21	0.92	0.46		0.915			
	DC	WL	39:41	1.02	1.19		0.947			

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.

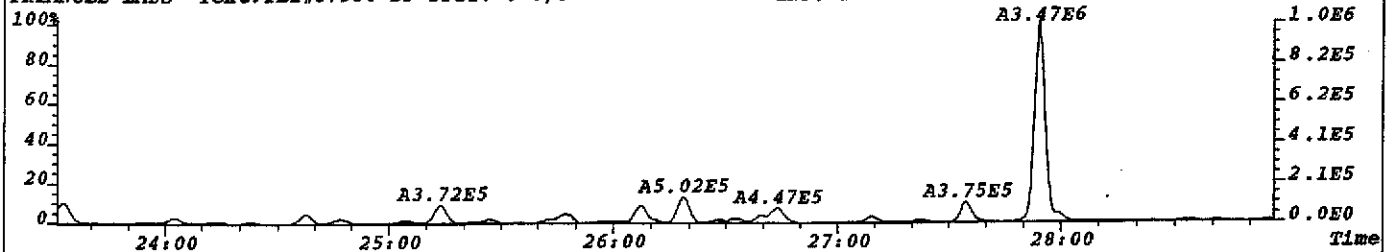
	DC	SN	41:56	RO	1.28		0.91			1.001		
			42:07		0.87		211.71	98.56	113.15	1.005	OCDF	AN
	DC	SN	42:25	RO	0.44		0.75			1.012		
	DC	SN	42:38	RO	1.10		0.21			1.018		
	DC	SN	42:50	RO	4.25		0.63			1.022		
	DC	SN	43:08	RO	0.30		0.26			1.029		
442-444			1 Peak				211.71					
OCDD			0.76-1.02							0.952-1.048		
458-460	DC	NL	Height			0.13	0.07			0.06		
			41:54		0.85	1,401.65	645.20		756.45	1.000	OCDD	AN
			42:22	RO	0.20		1.83	0.30		1.53	1.011	
458-460			2 Peaks			1,403.48						
13C12-OCDD			0.76-1.02							0.996-1.004		
470-472	DC	NL	Height			0.14	0.06			0.08		
			41:54		0.85	521.27	239.77		281.50	1.000	13C12-OCDD	IS14
			Height			107.76	49.74			58.02		
	DC	WH	42:18	RO	1.07		2.67			1.010		
470-472			1 Peak			521.27						

Column Description..... "Why" Code Description..... QC Log Desc.....

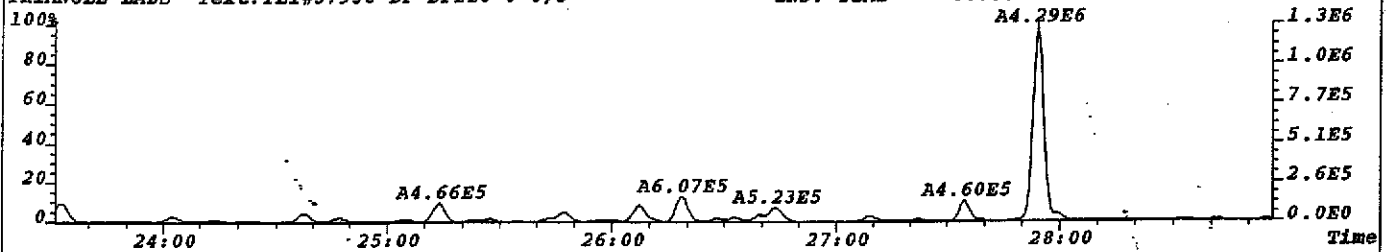
M_Z -Nominal Ion Mass(es) WL-Below Retention Time Window A-Peak Added
 ..RT.. -Retention Time (mm:ss) WH-Above Retention Time Window K-Peak Kept
 Rat.1 -Ratio of M/M+2 Ions SN-Below Signal to Noise Level D-Peak Deleted
 OK -RO=Ratio Outside Limits <M-Below Method Detection Limit T-Time Changed
 Rel.RT-Relative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

*** End of Report ***

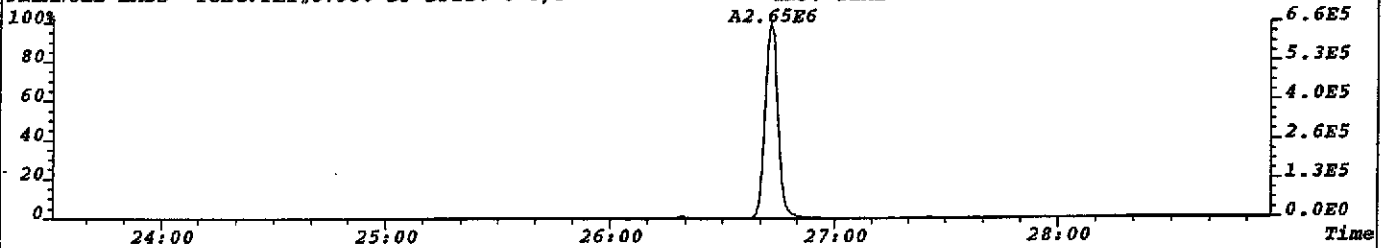
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:140
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,560.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



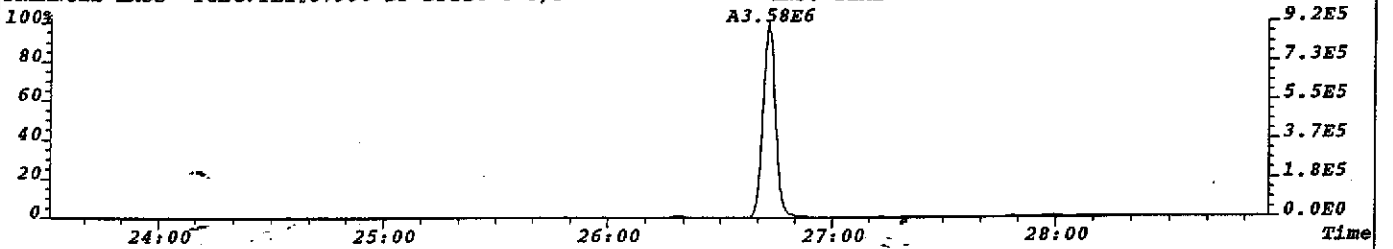
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:106
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,424.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



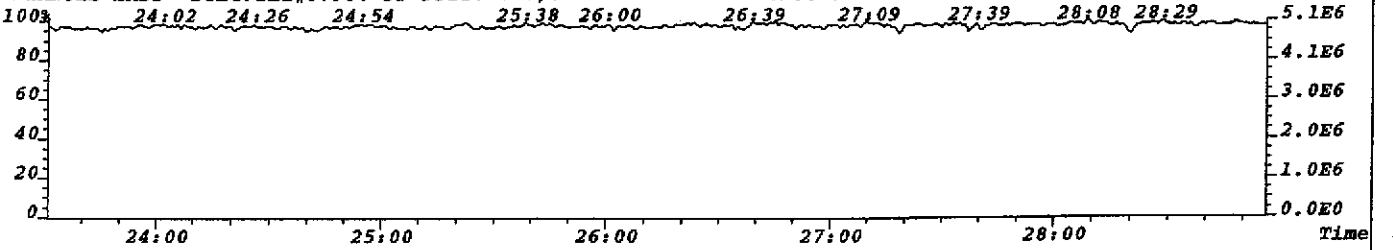
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:106
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,400.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



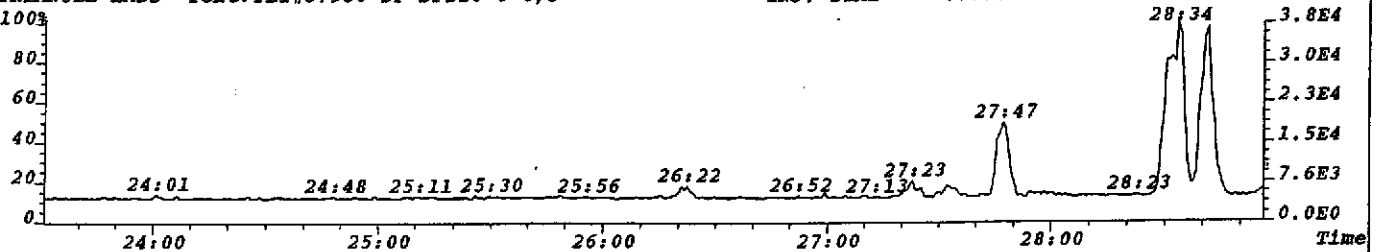
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:104
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,416.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



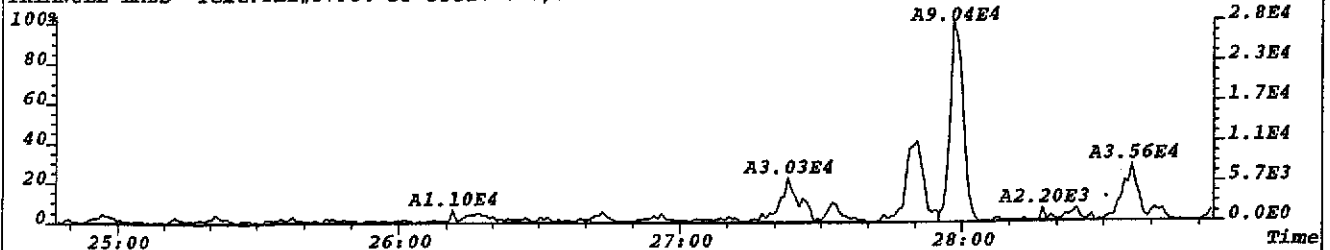
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



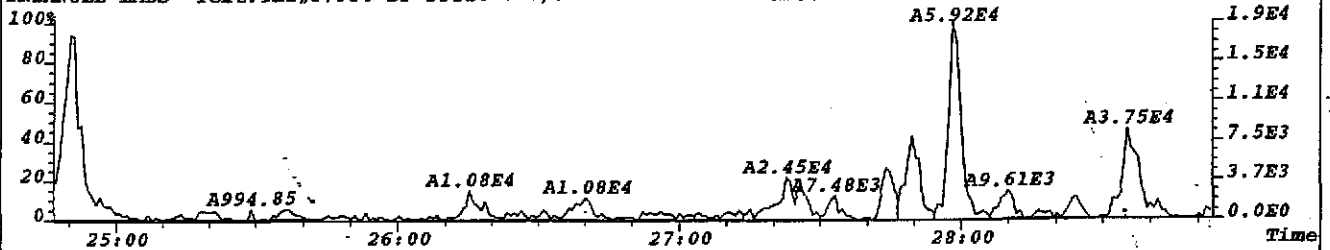
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



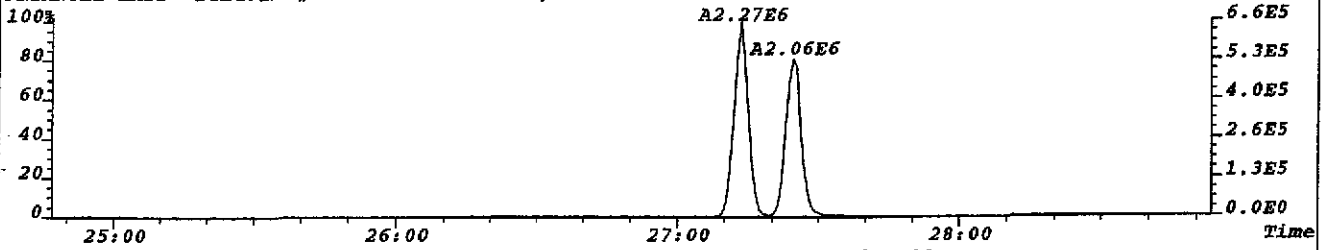
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:85
 319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,340.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



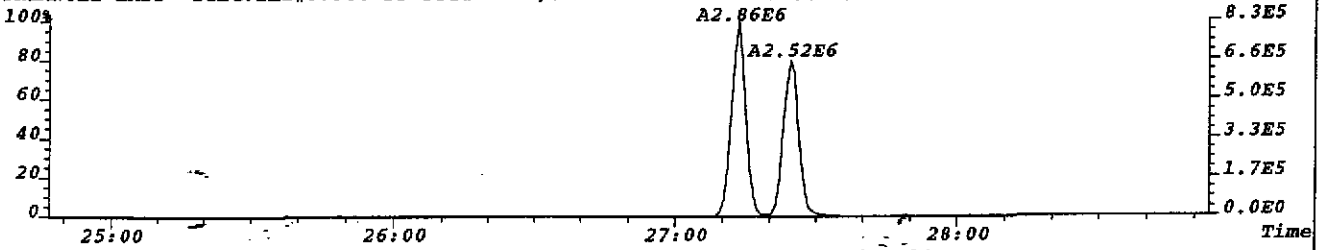
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:98
 321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,392.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



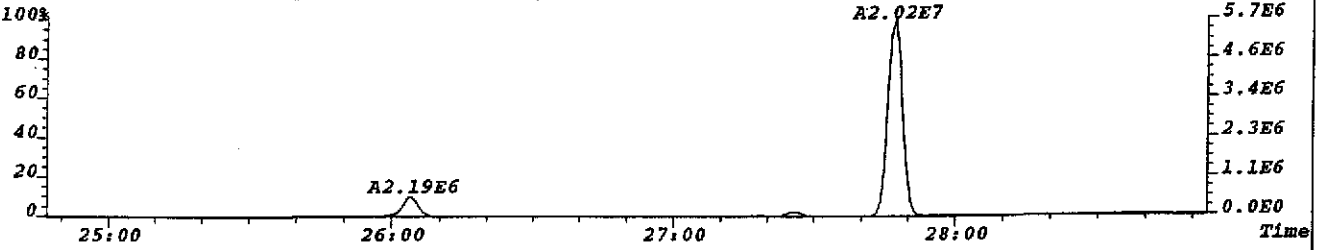
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:228
 331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,912.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



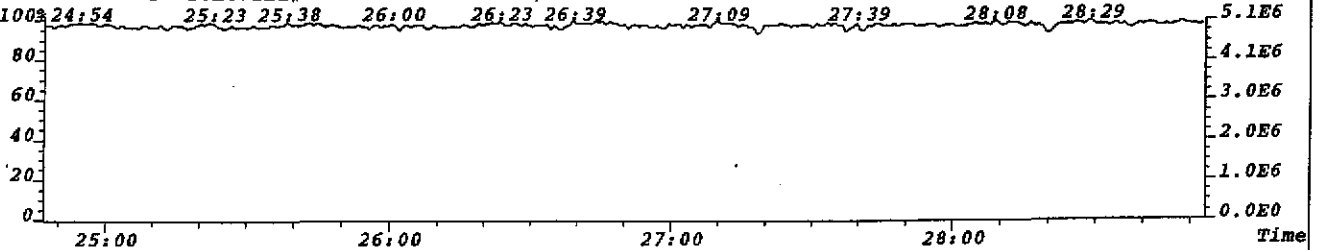
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:92
 333.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,368.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



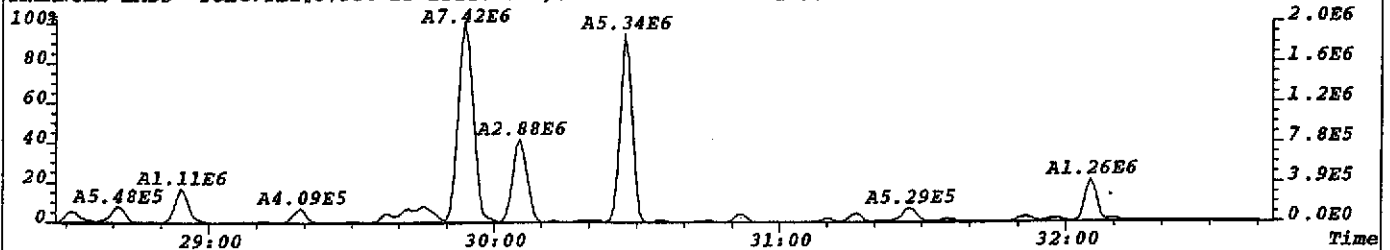
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:94
 327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,376.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



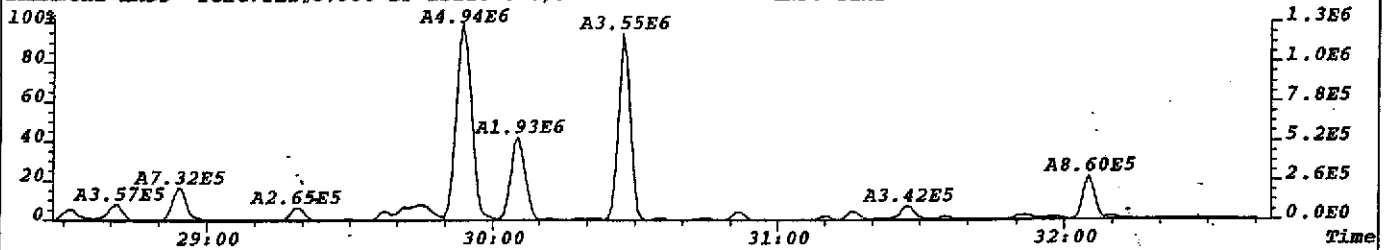
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T
 330.9792 F:2 Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



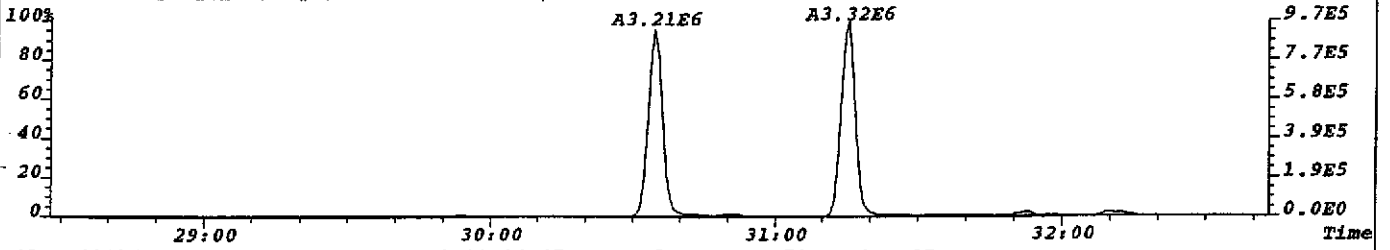
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:82
 339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,328.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



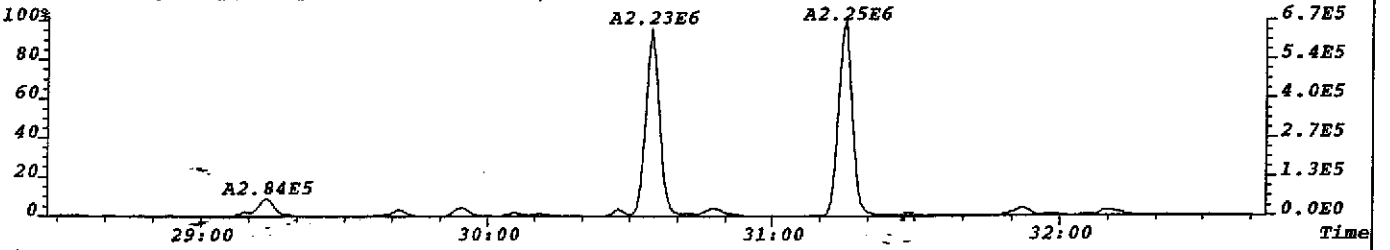
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:100
 341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,400.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



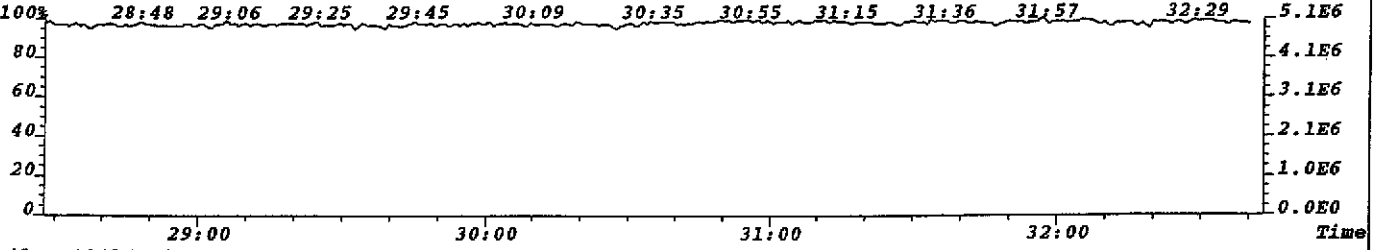
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:83
 351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,332.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



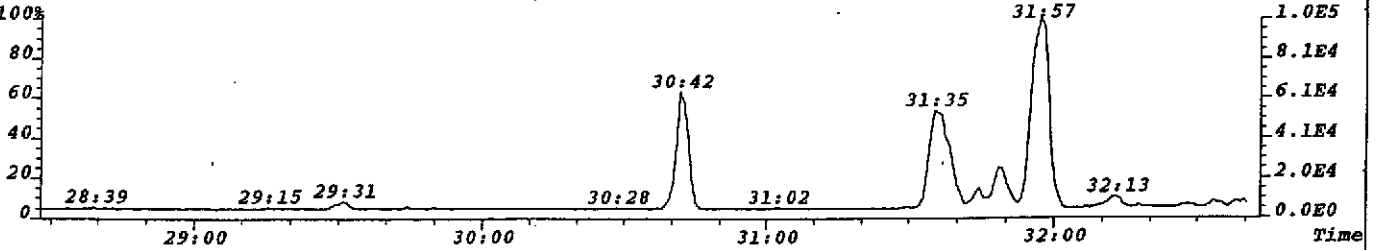
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:87
 353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,348.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



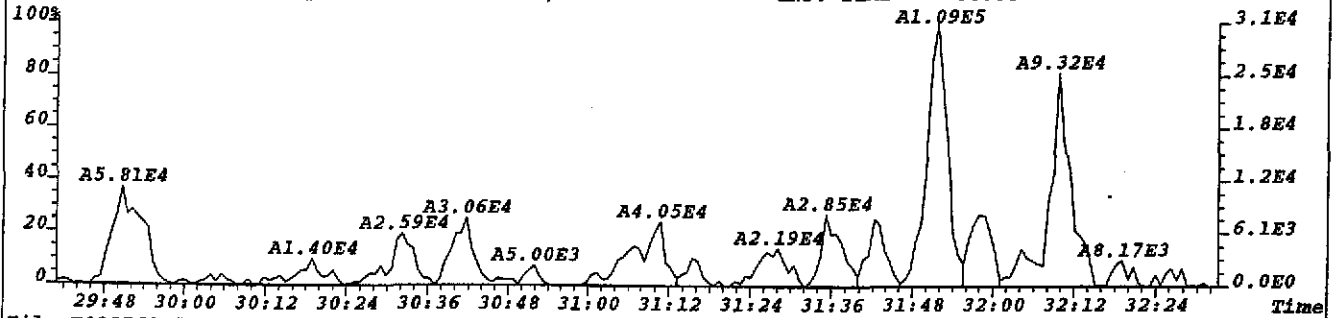
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T
 330.9792 F:2 Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



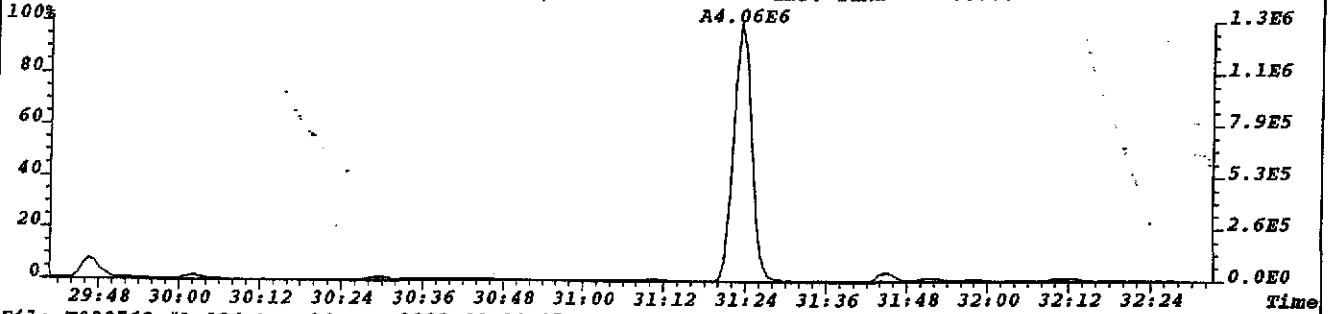
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T
 409.7974 F:2 Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



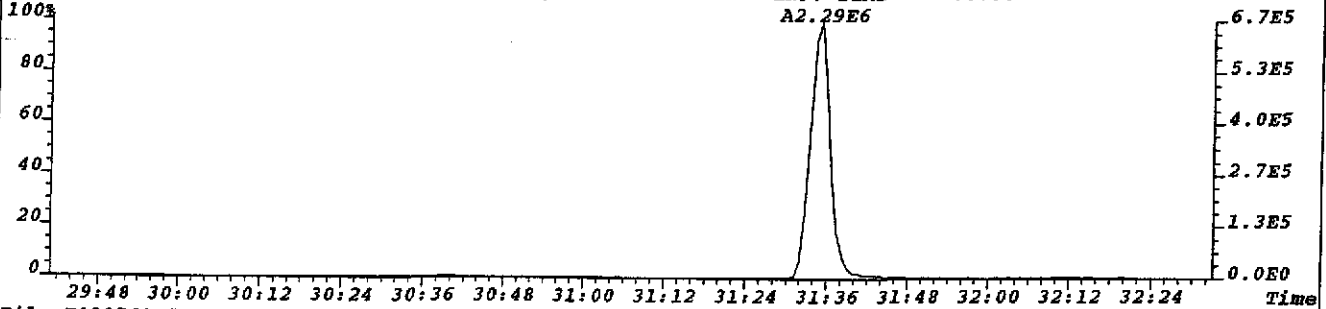
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:95
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,380.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



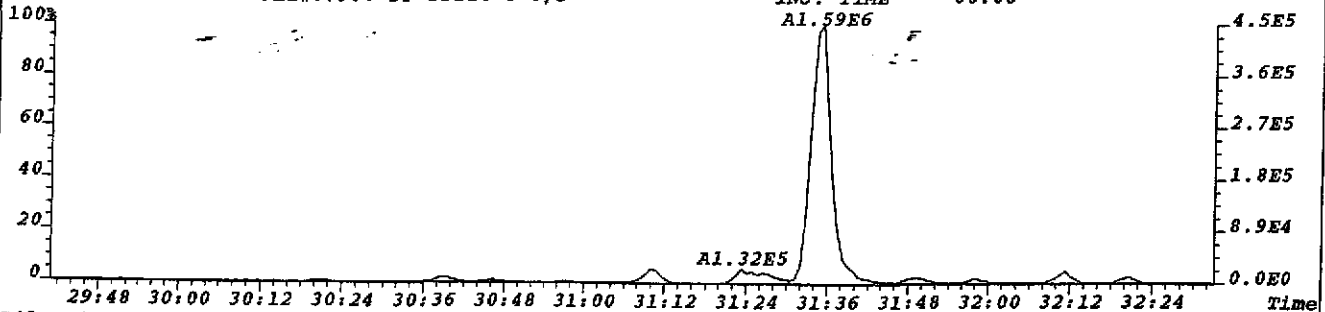
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:83
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,332.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



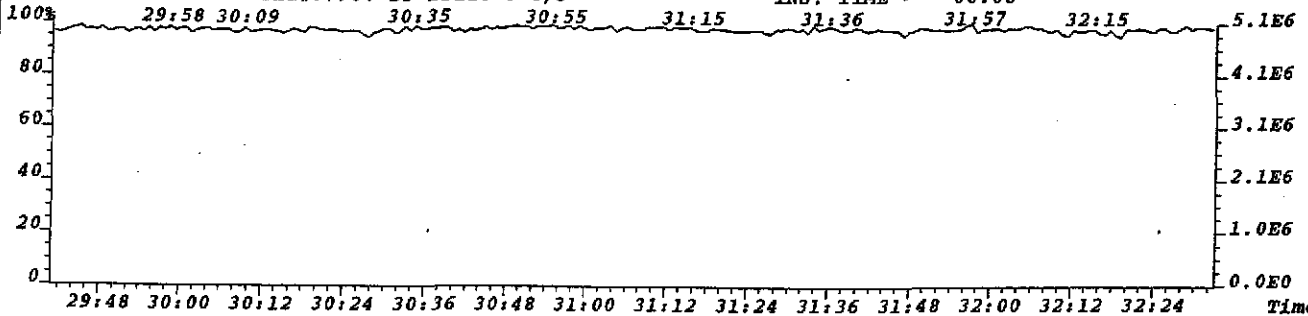
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:104
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,416.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



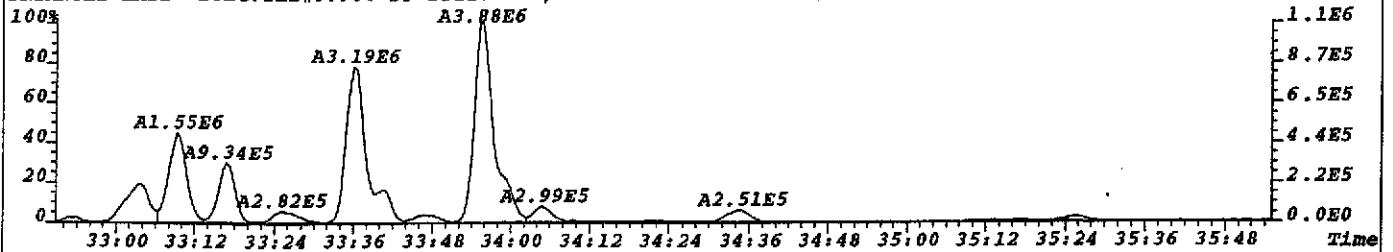
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:87
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,348.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



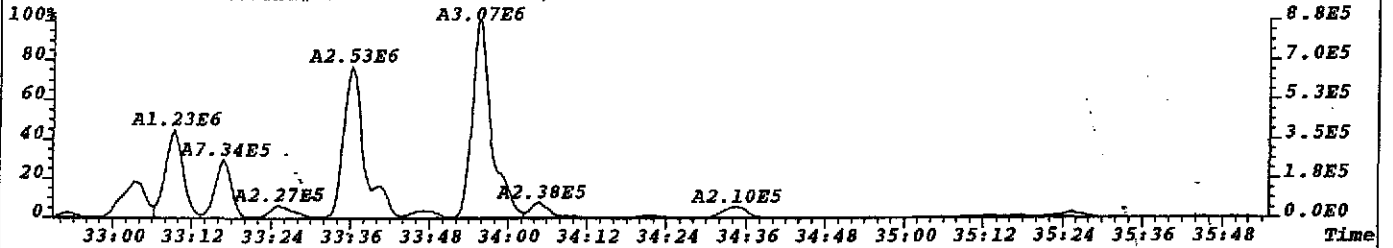
File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



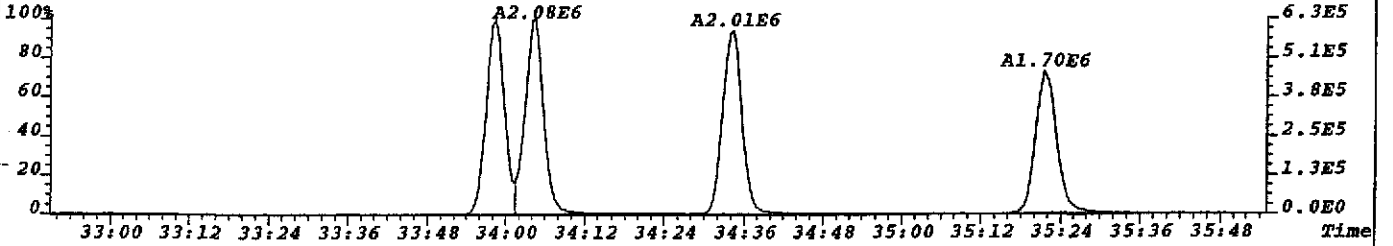
File:T023763 #1-386 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:516
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2064.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



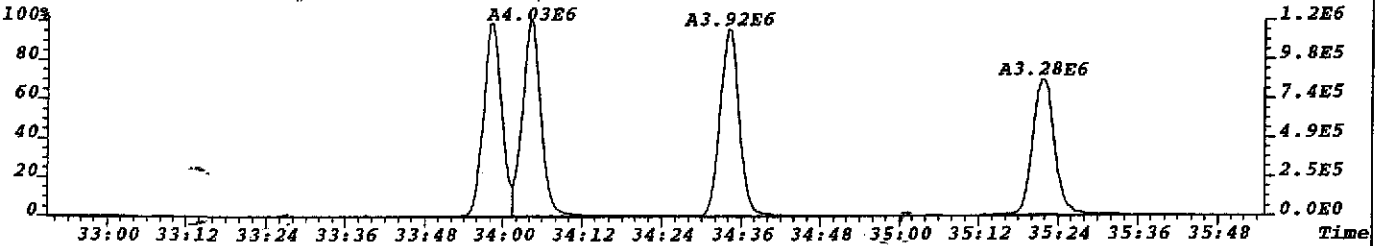
File:T023763 #1-386 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:362
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1448.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



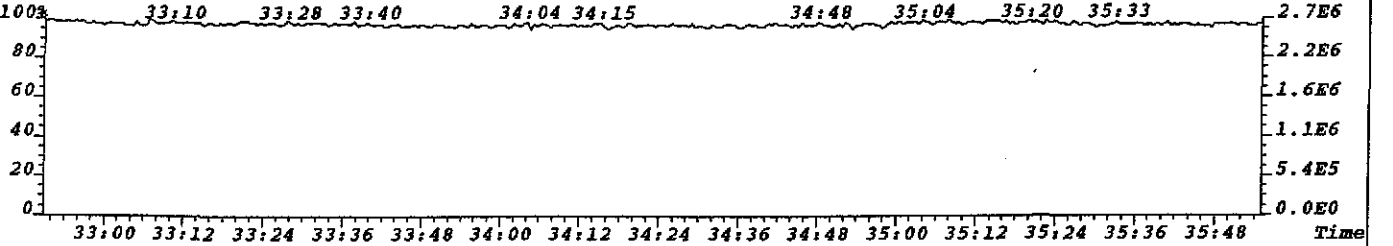
File:T023763 #1-386 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:202
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,808.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



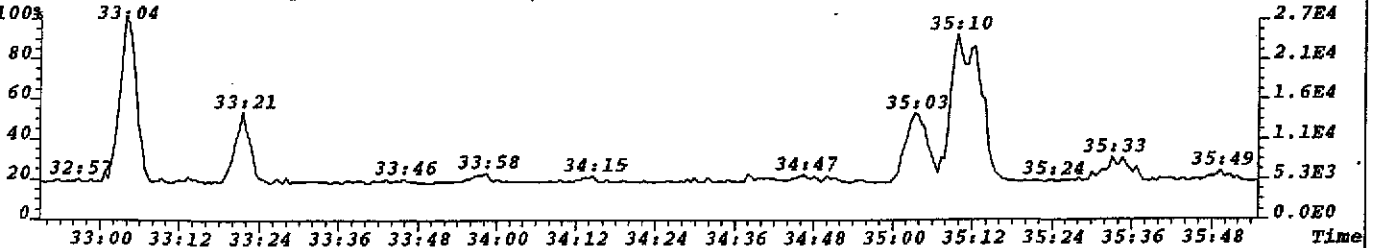
File:T023763 #1-386 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:378
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1512.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



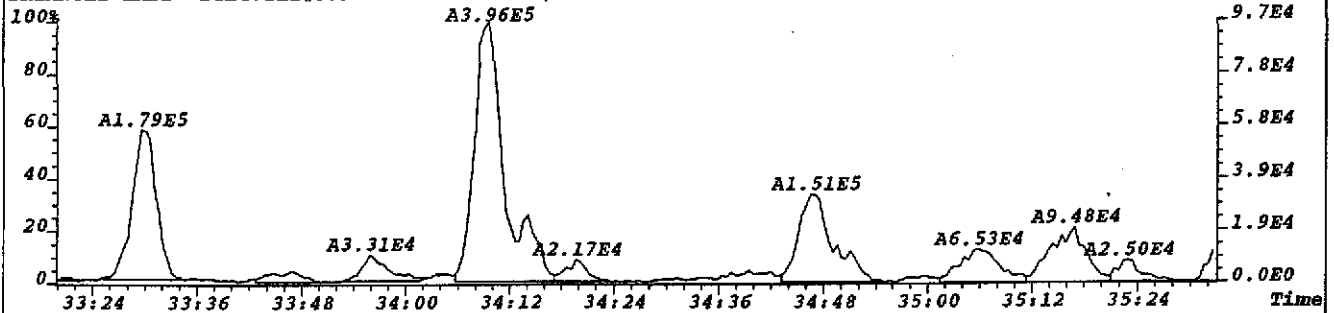
File:T023763 #1-386 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



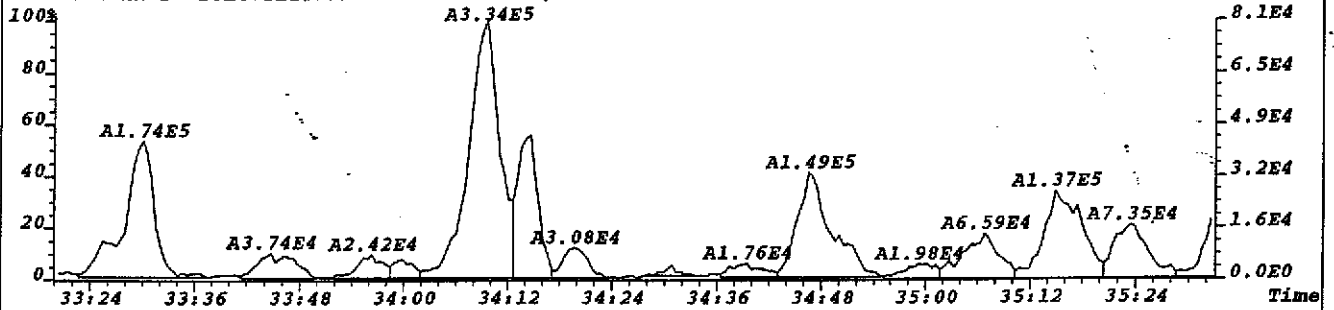
File:T023763 #1-386 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



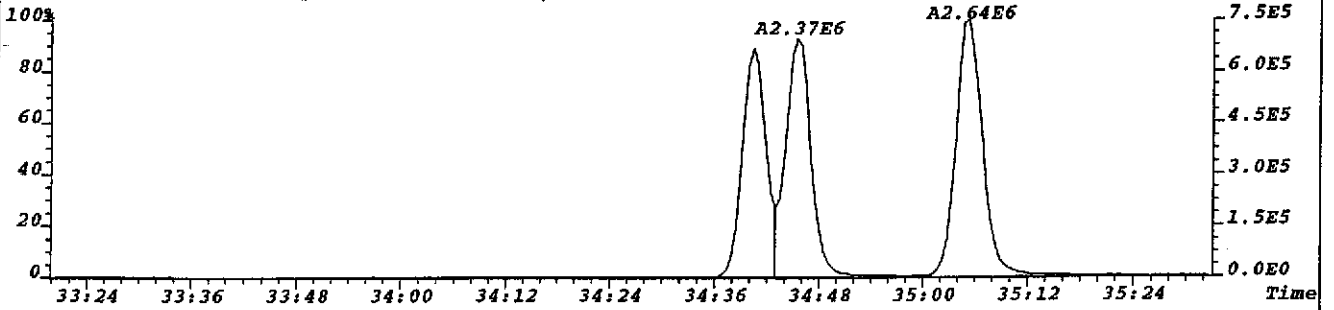
File:T023763 #1-386 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:533
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2132.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



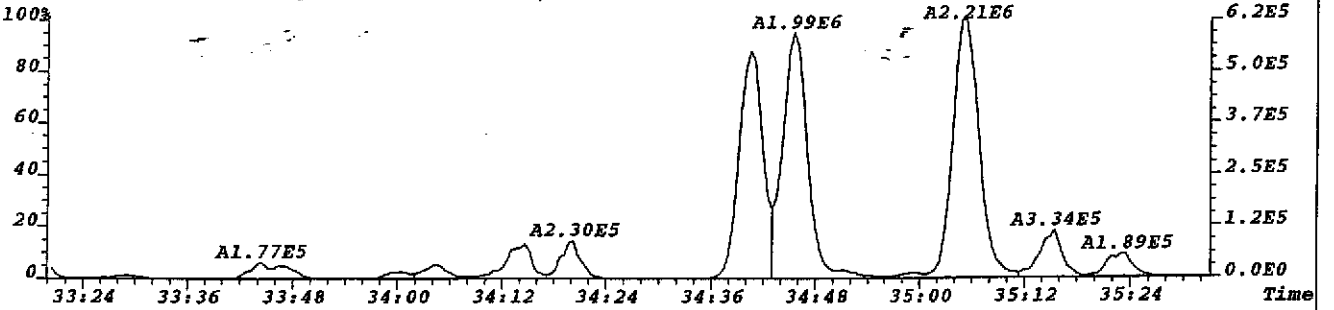
File:T023763 #1-386 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:501
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2004.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



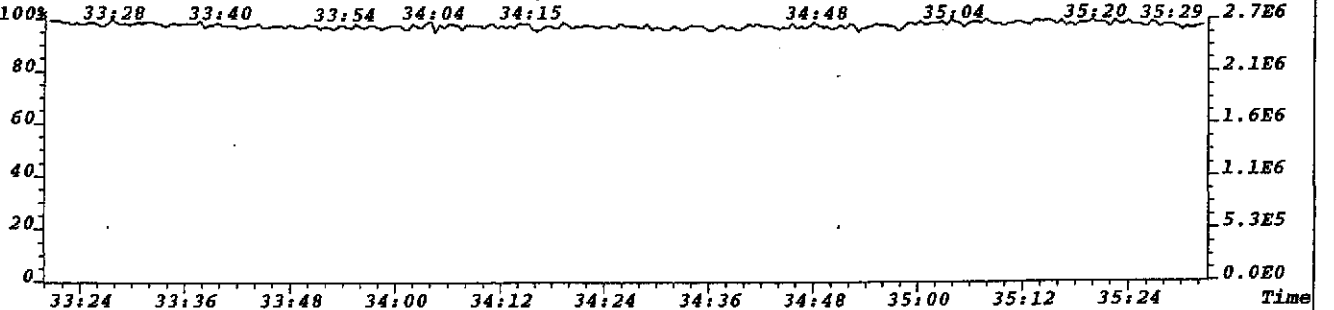
File:T023763 #1-386 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:148
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,592.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



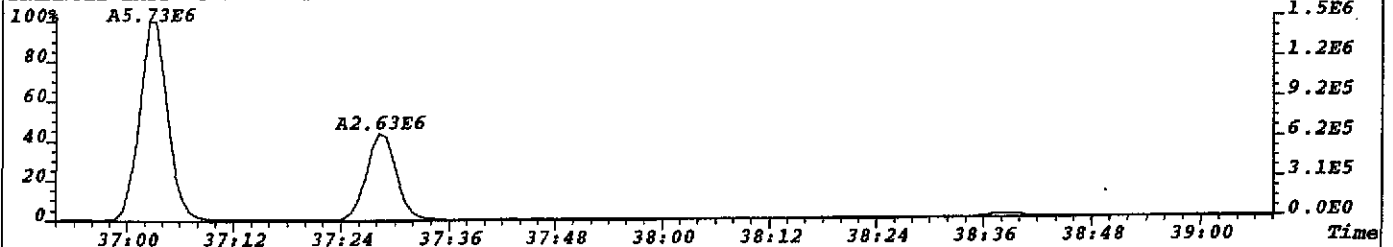
File:T023763 #1-386 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:144
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,576.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



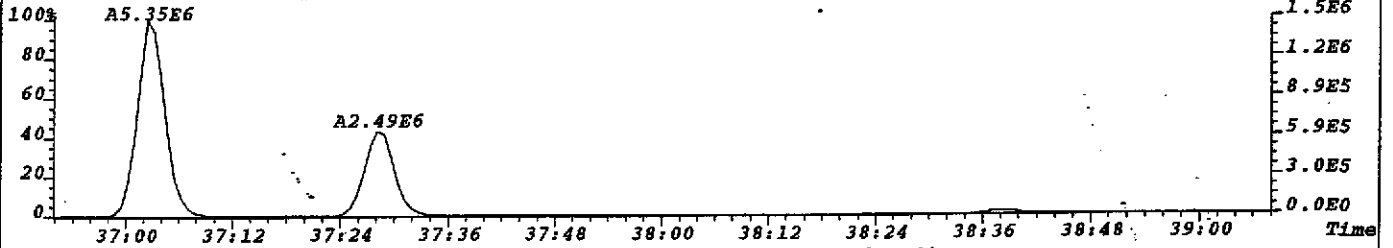
File:T023763 #1-386 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



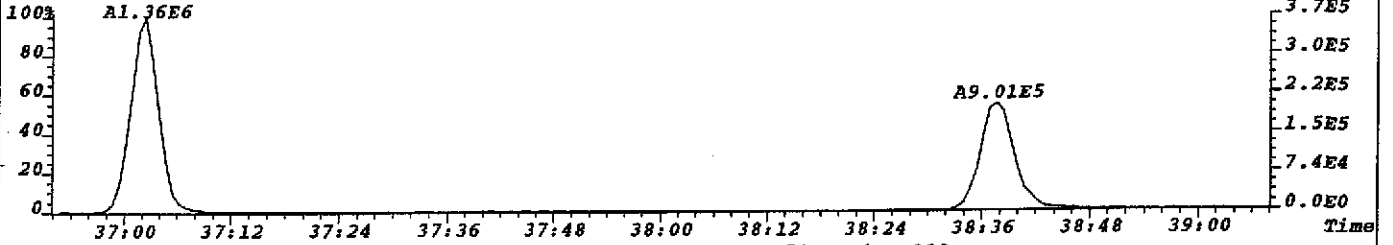
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:193
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,772.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



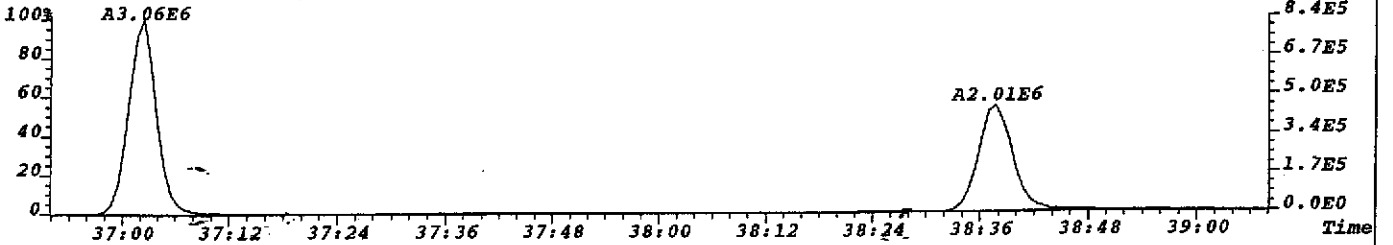
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:91
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



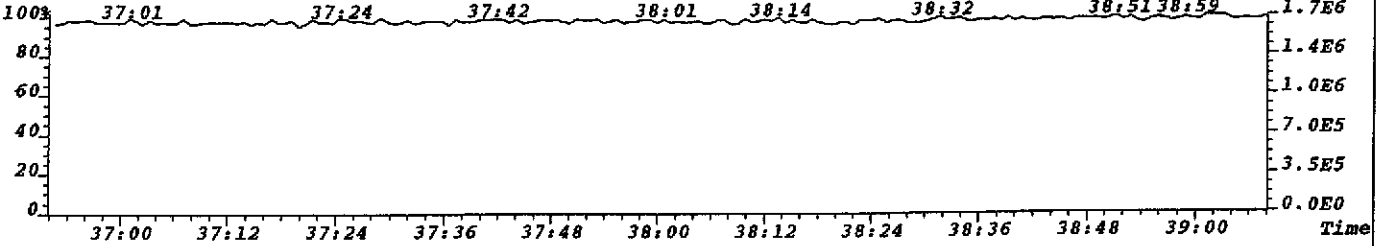
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:92
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,368.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



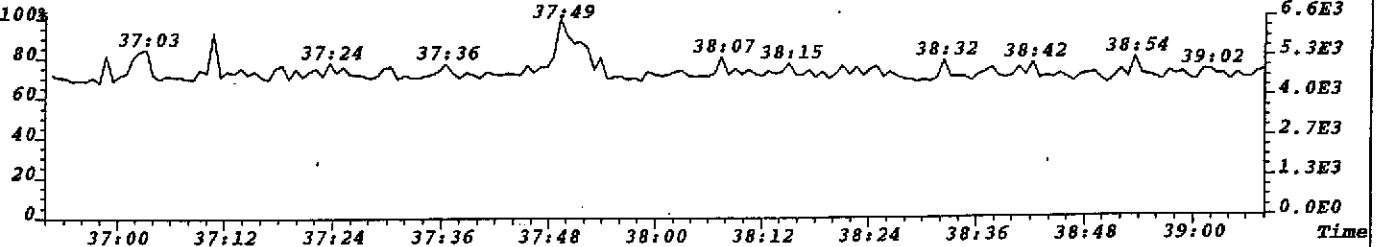
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:190
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,760.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



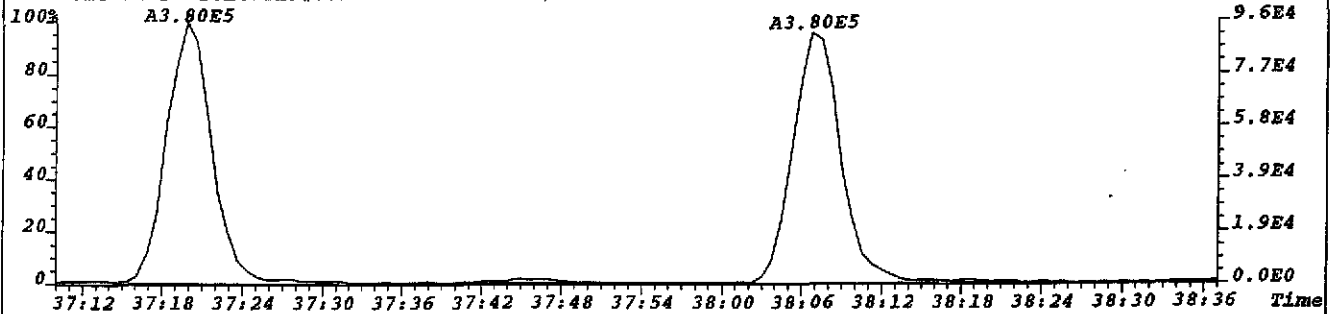
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



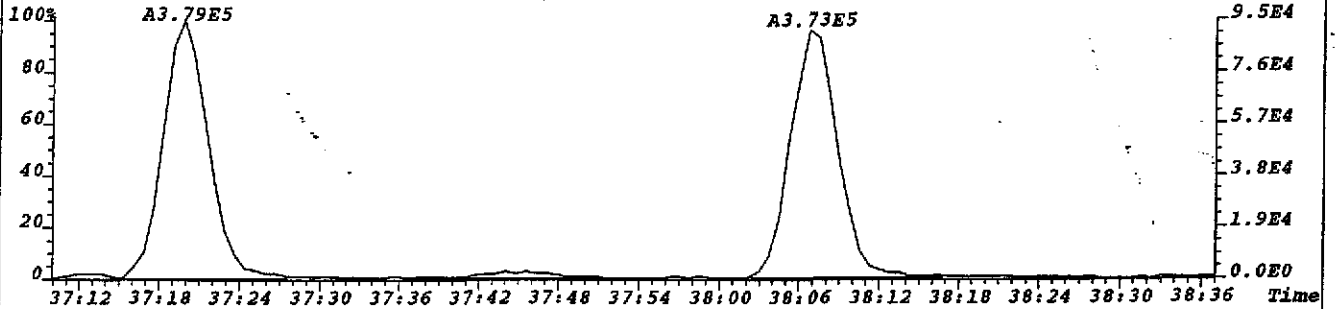
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



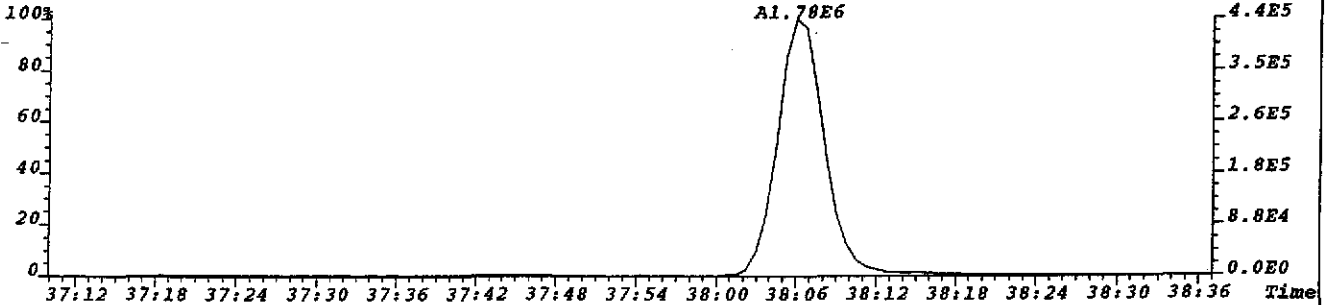
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:180
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,720.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



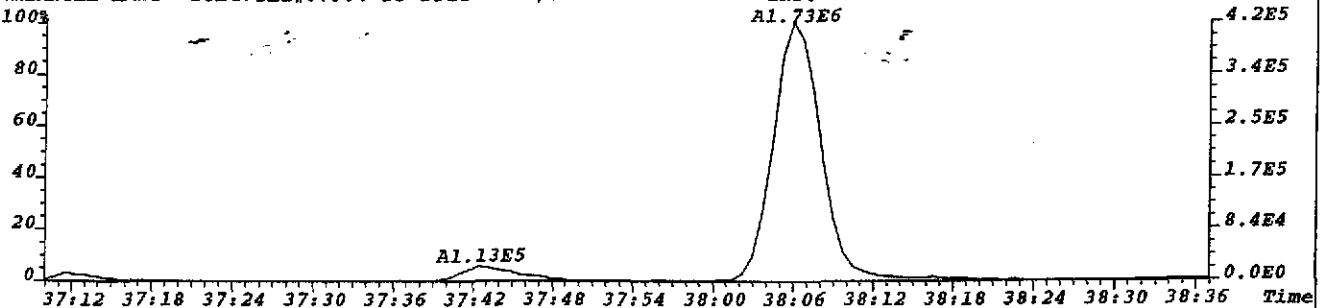
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:173
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,692.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



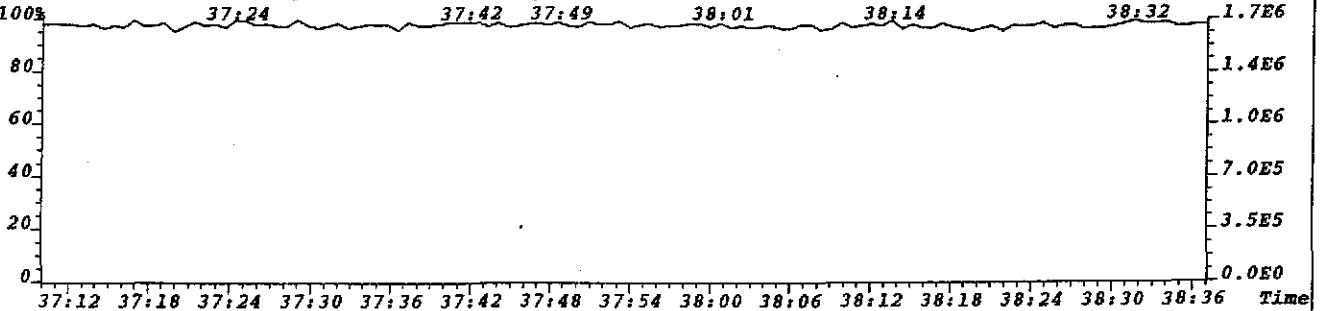
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:157
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,628.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



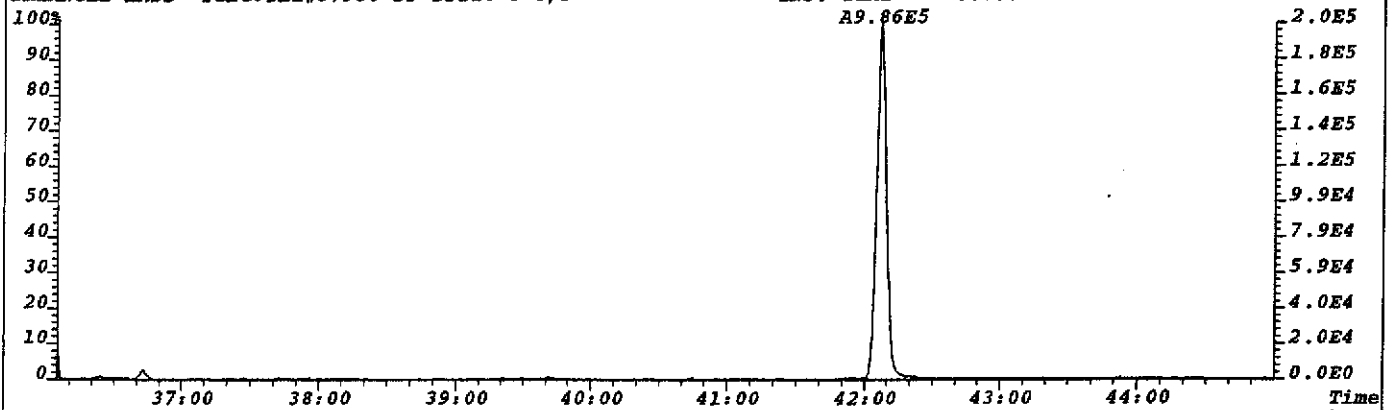
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:188
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,752.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



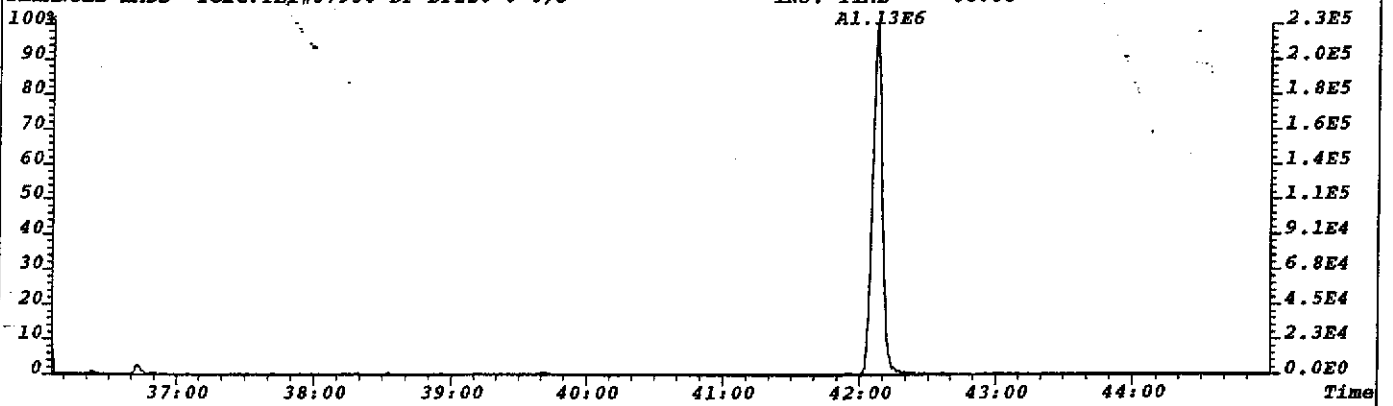
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



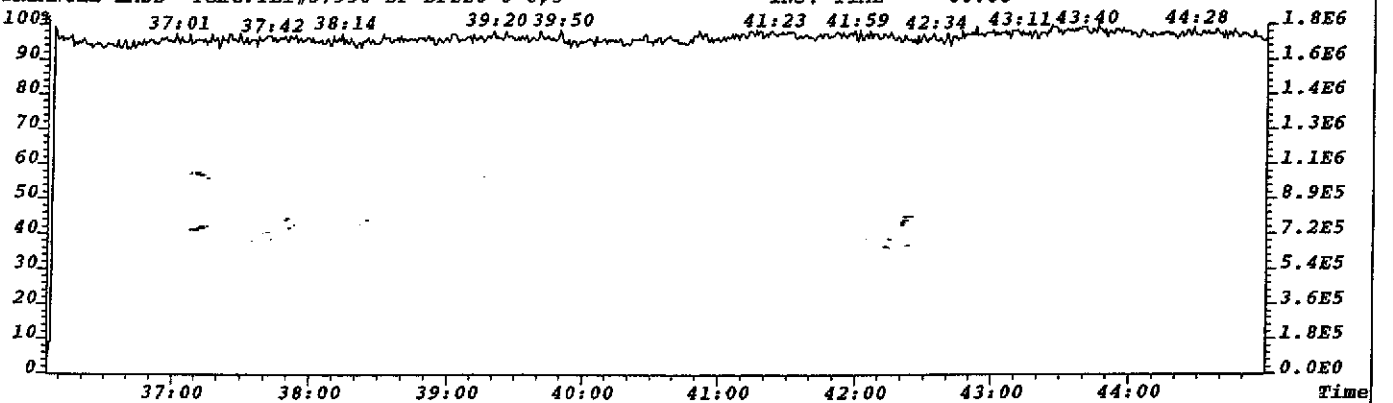
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:104
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,416.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



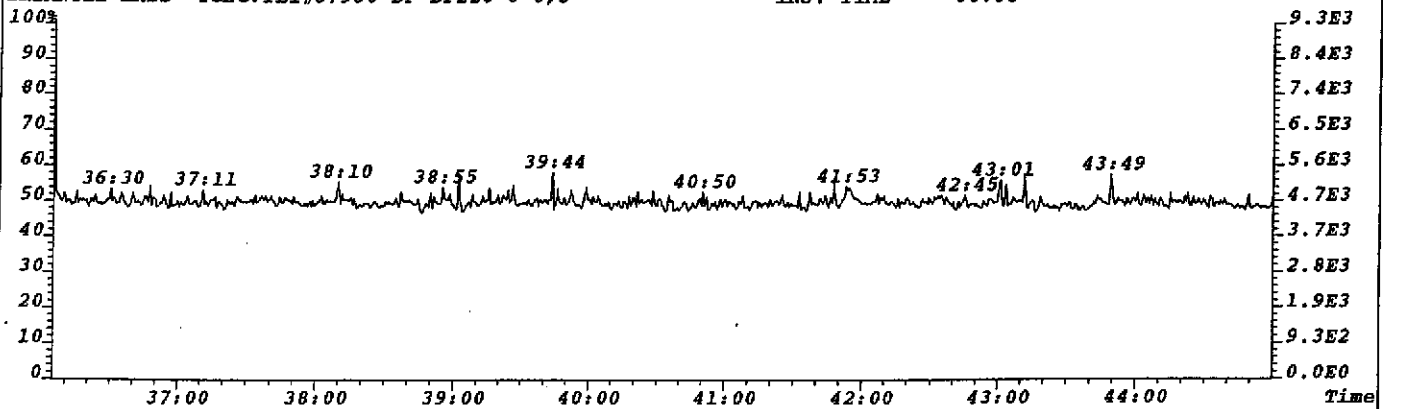
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:112
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,448.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



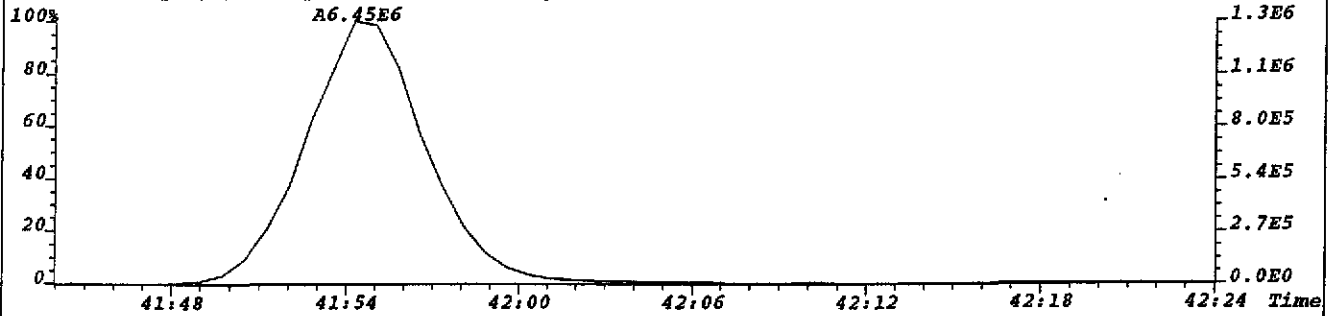
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



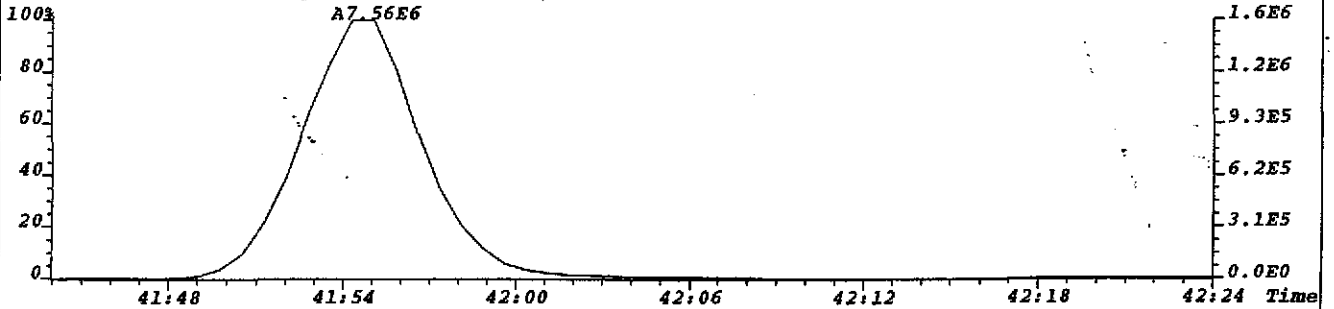
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



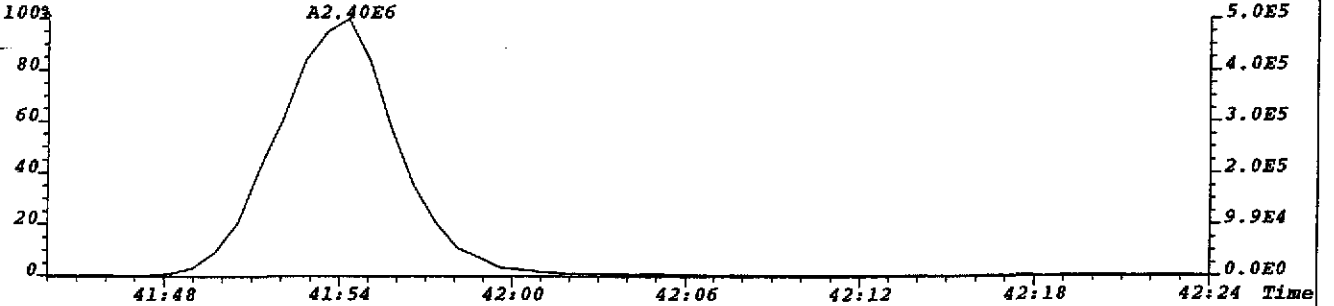
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:82
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



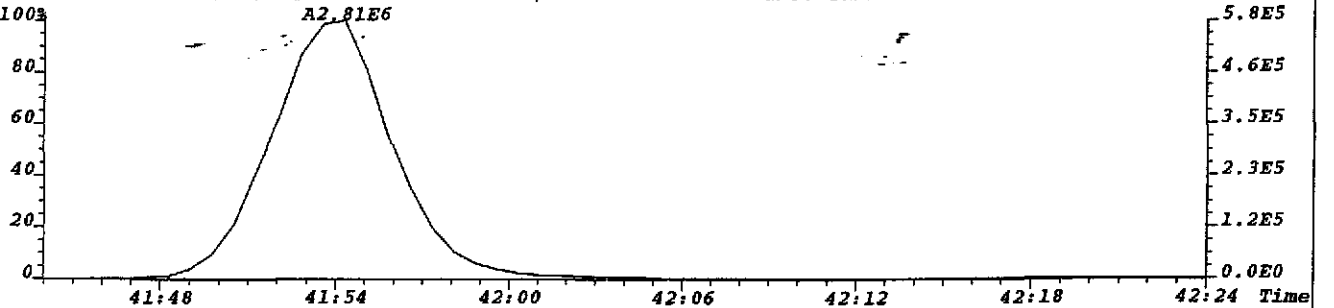
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:77
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



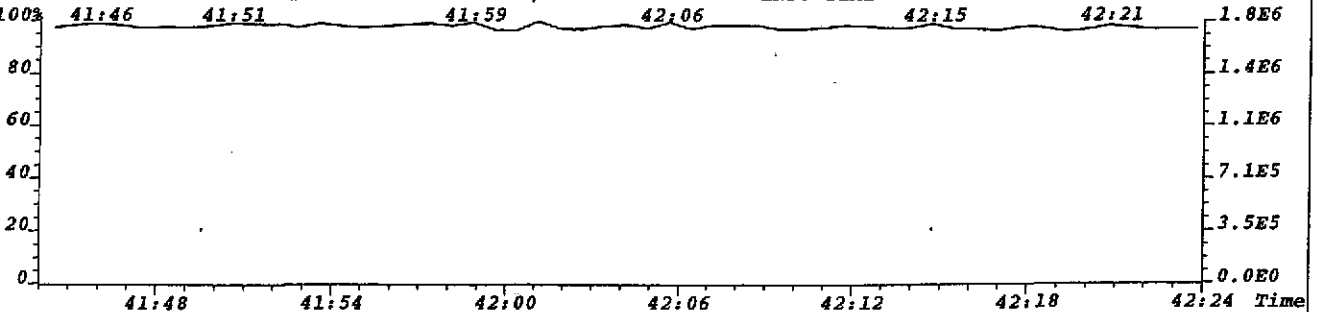
File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:79
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06

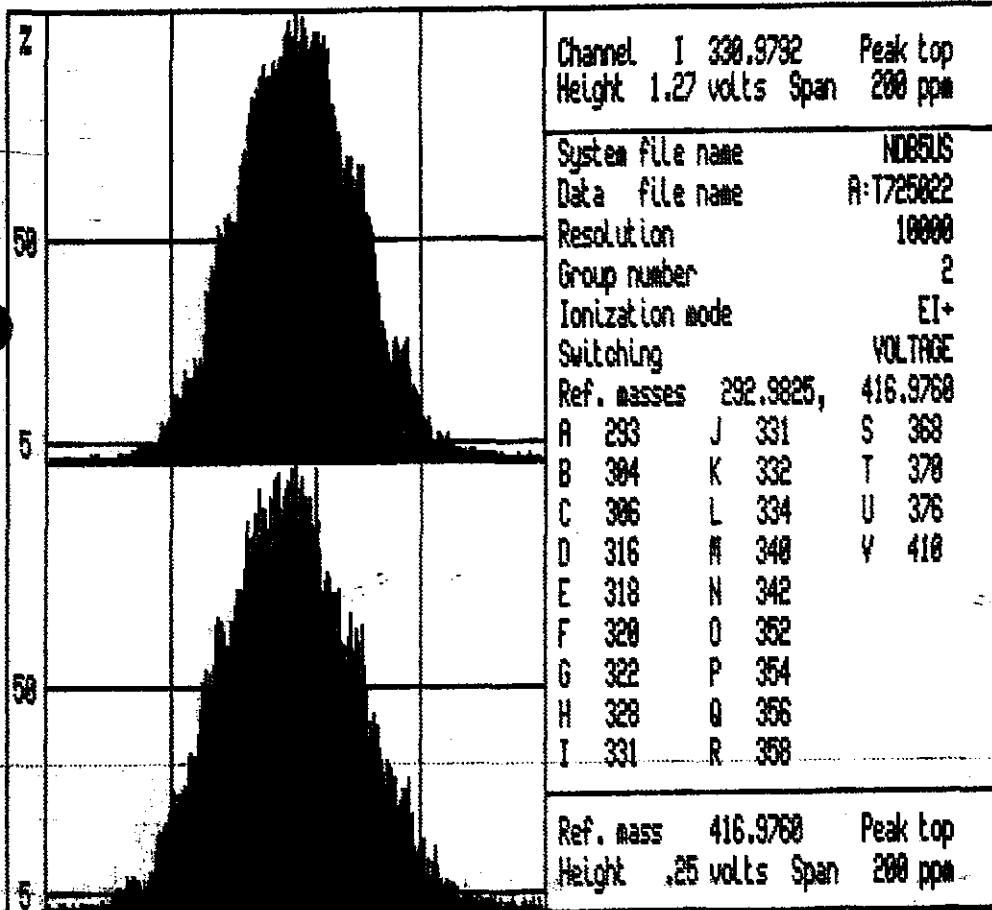


File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T Noise:105
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,420.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06

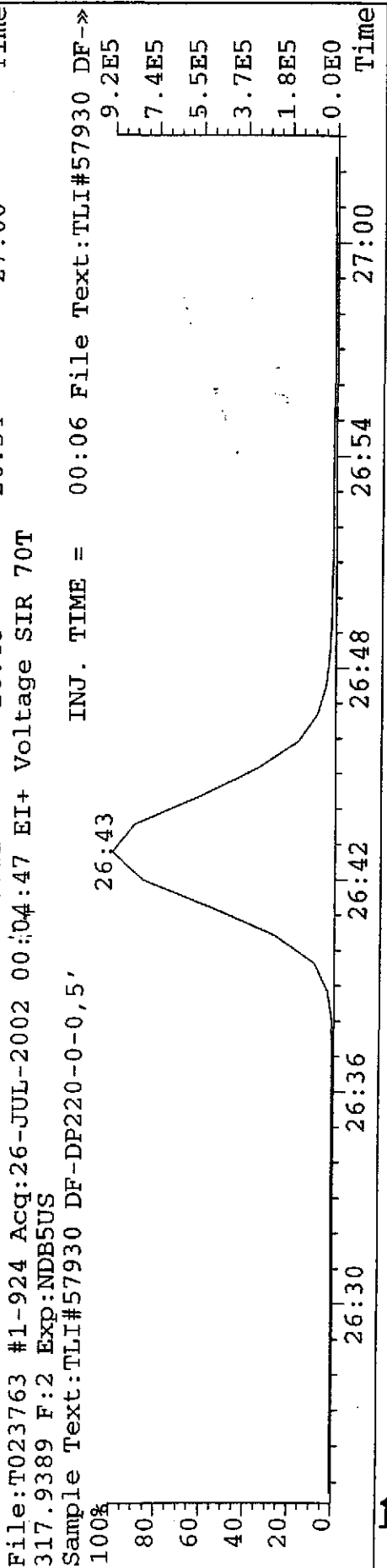
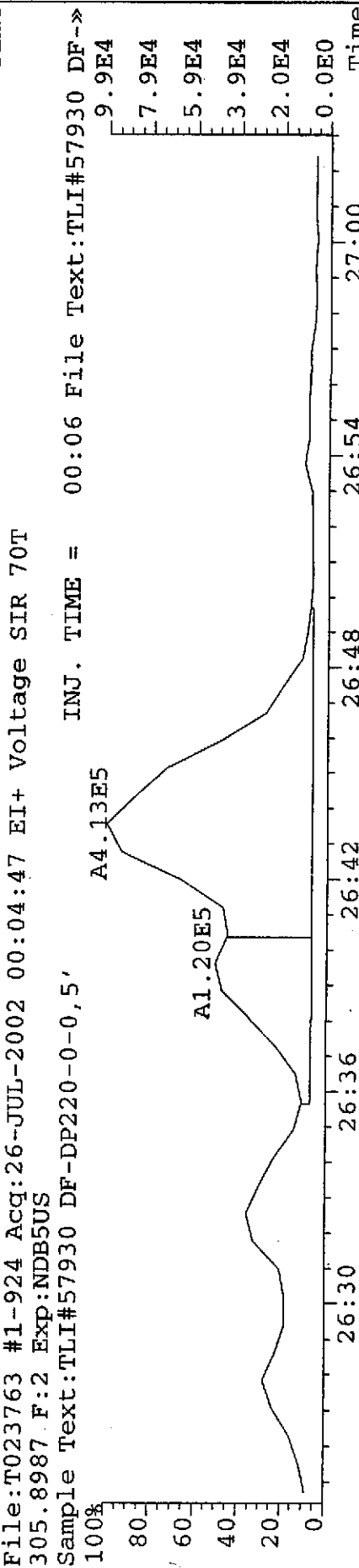
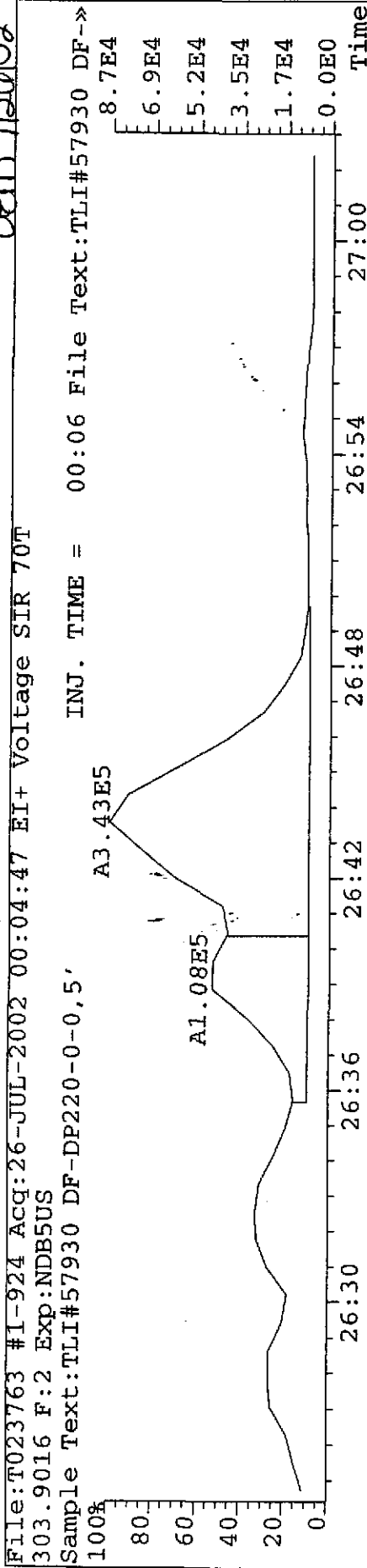


File:T023763 #1-708 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 00:06



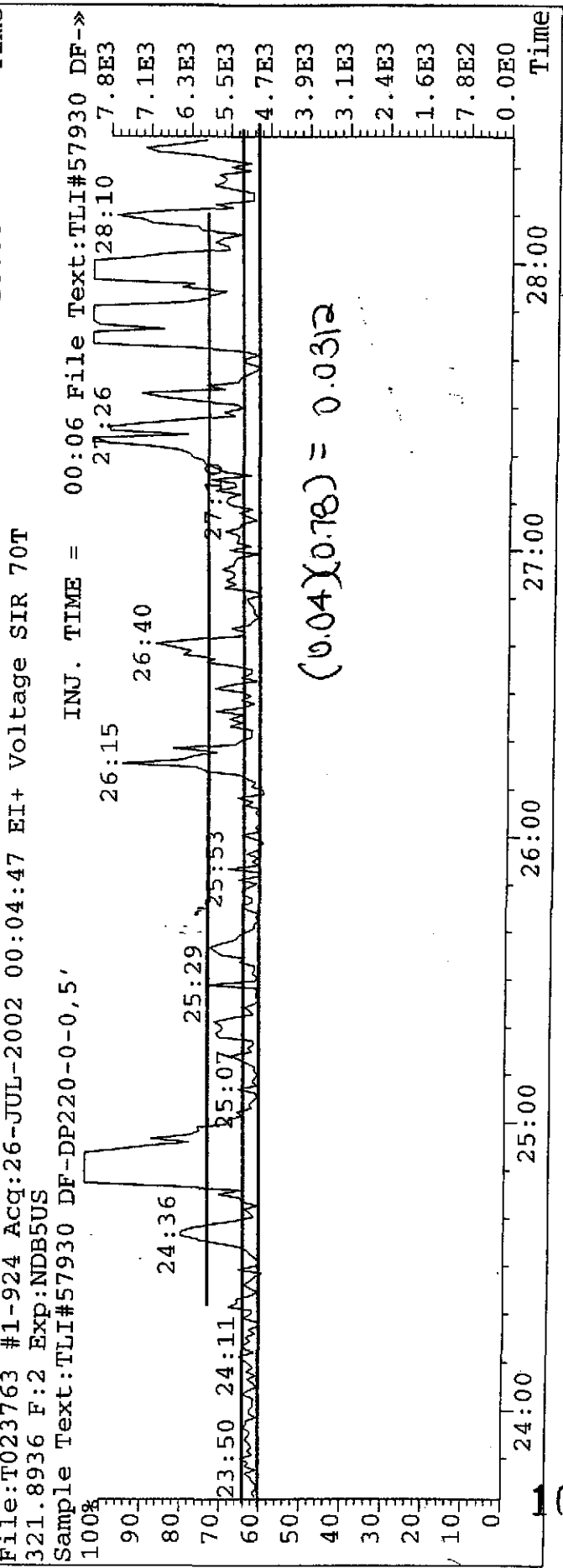
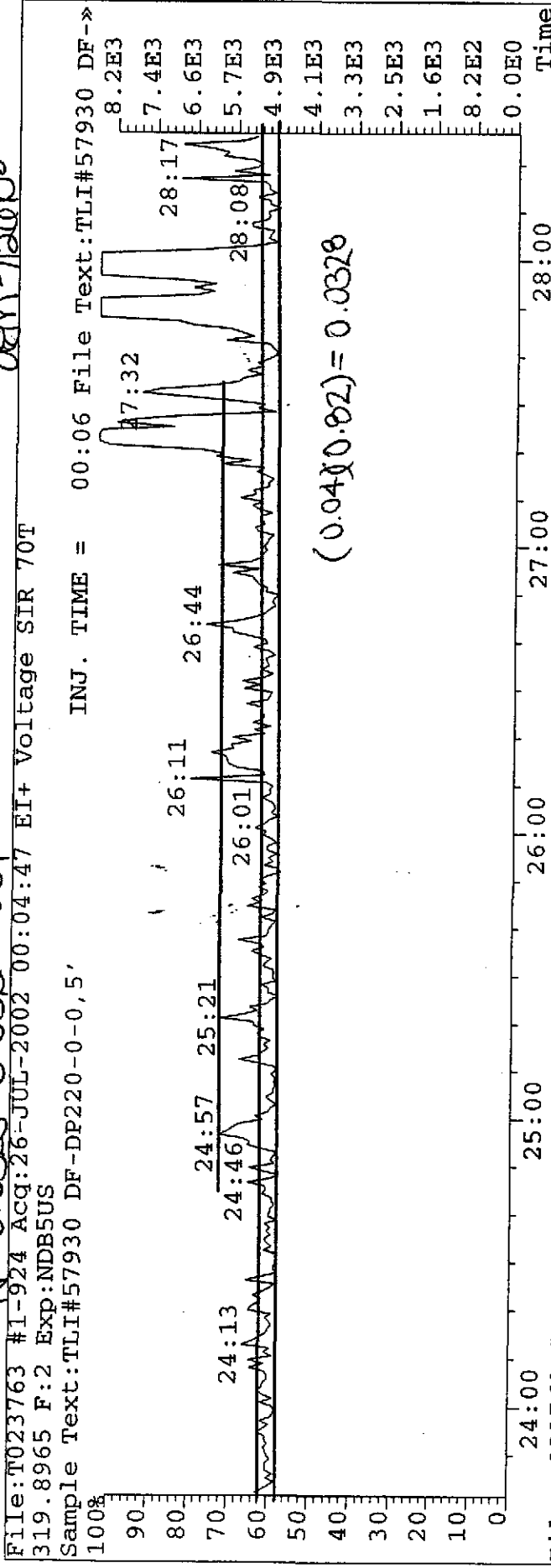


0201270202



$N = 0.0328 + 0.0328 = 0.0656$

QEM 7120102



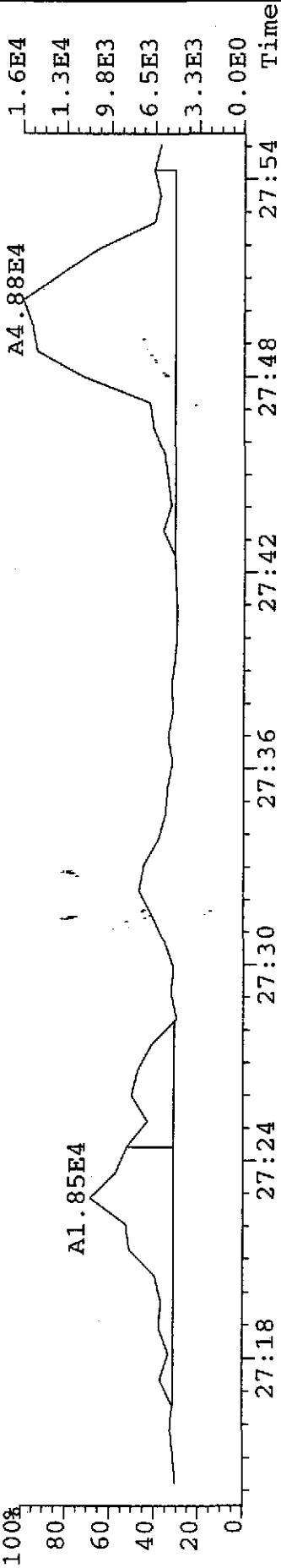
02M7120102

File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T

319.8965 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 00:06 File Text:TLI#57930 DF->

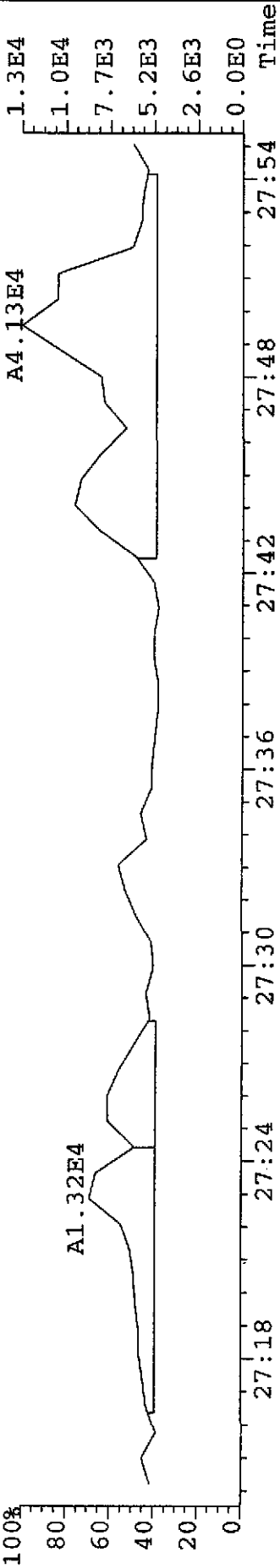


File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T

321.8936 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 00:06 File Text:TLI#57930 DF->

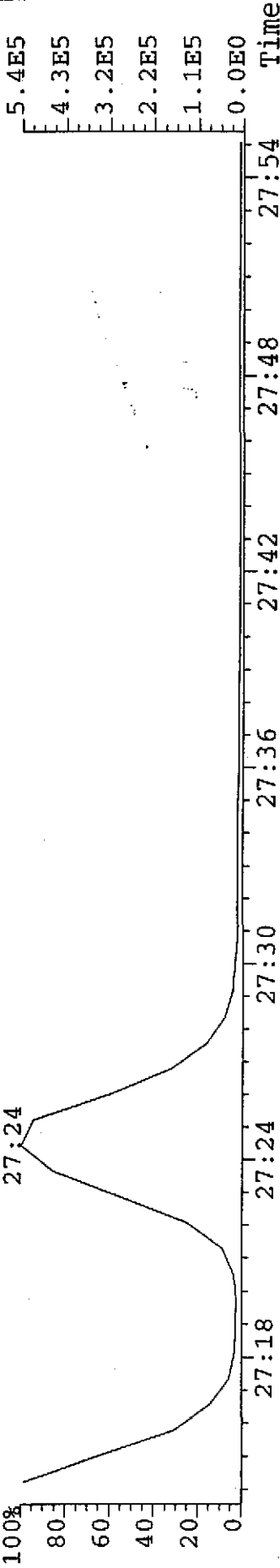


File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T

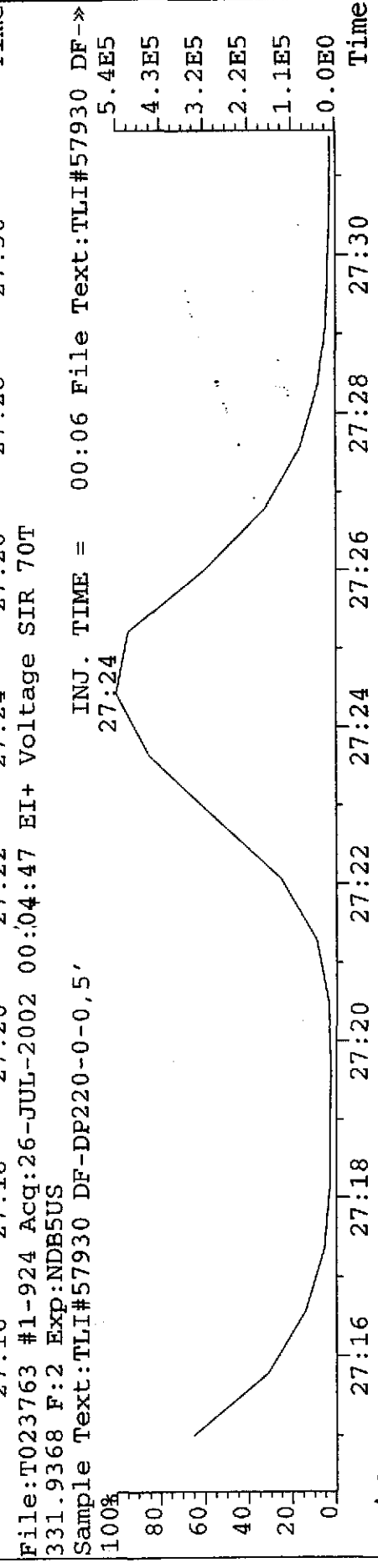
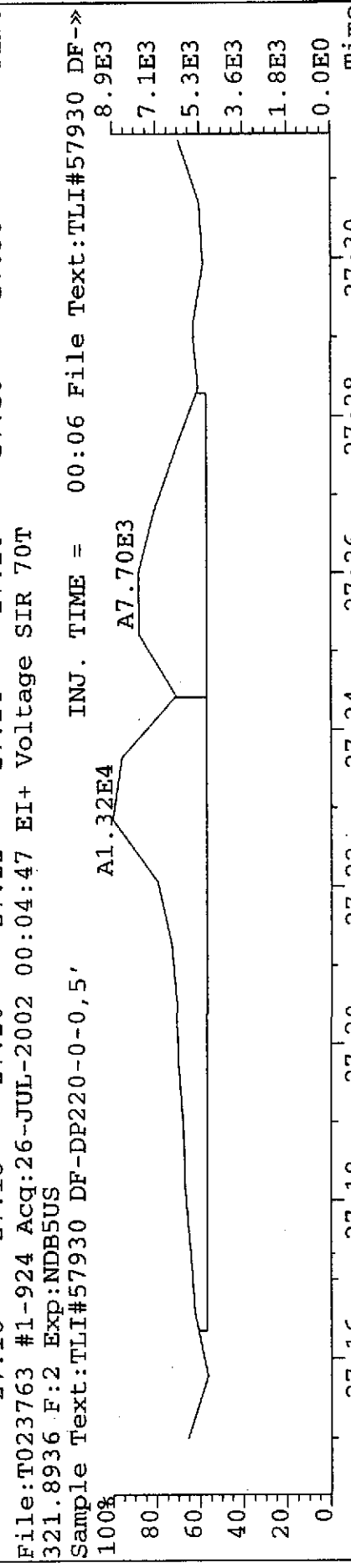
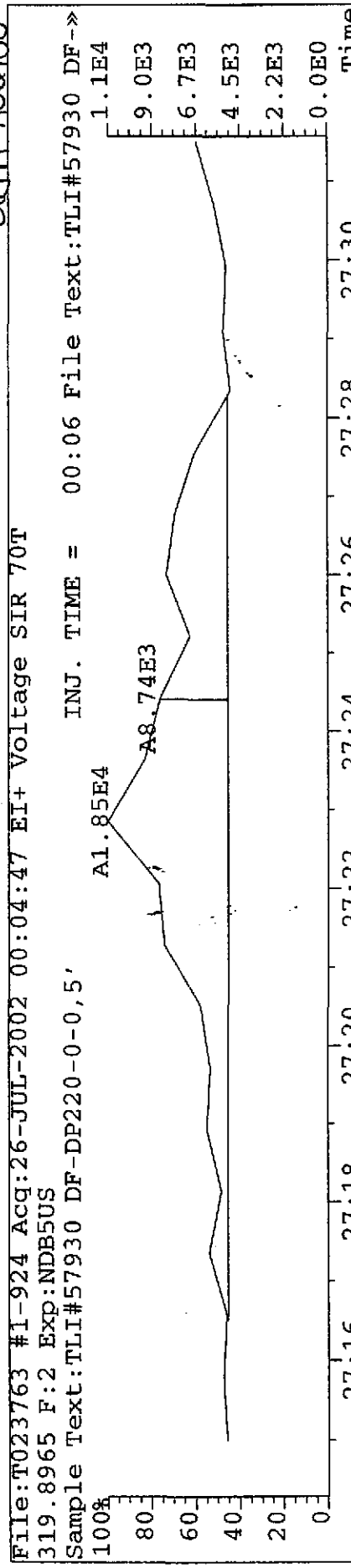
331.9368 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 00:06 File Text:TLI#57930 DF->



08M72002



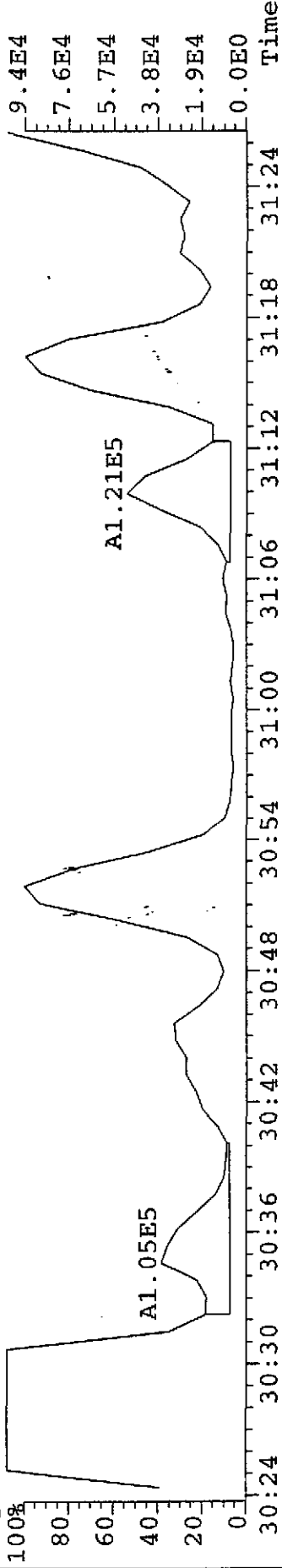
020712d02

File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T

339.8597 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 00:06 File Text:TLI#57930 DF->

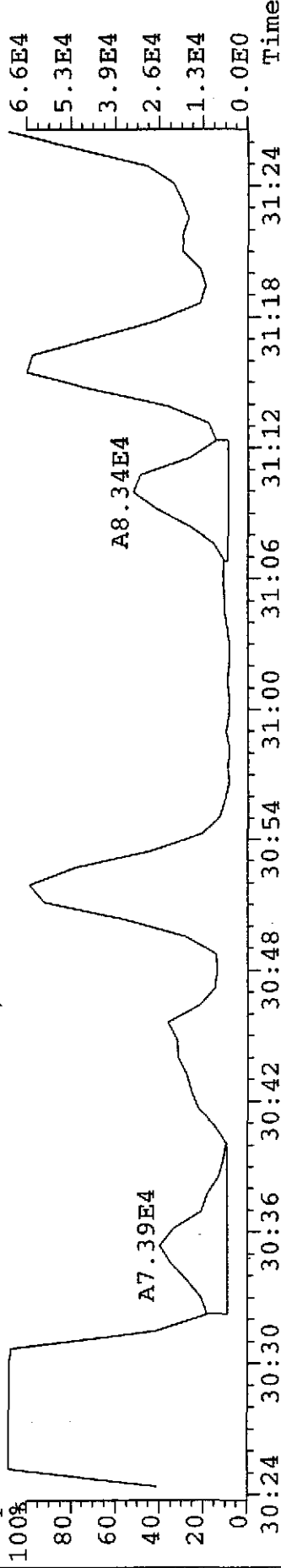


File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T

341.8567 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 00:06 File Text:TLI#57930 DF->

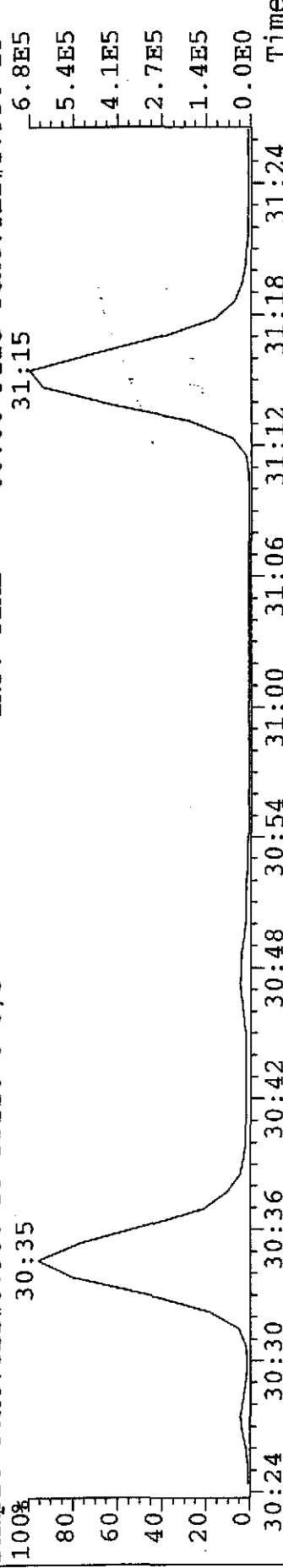


File:T023763 #1-924 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T

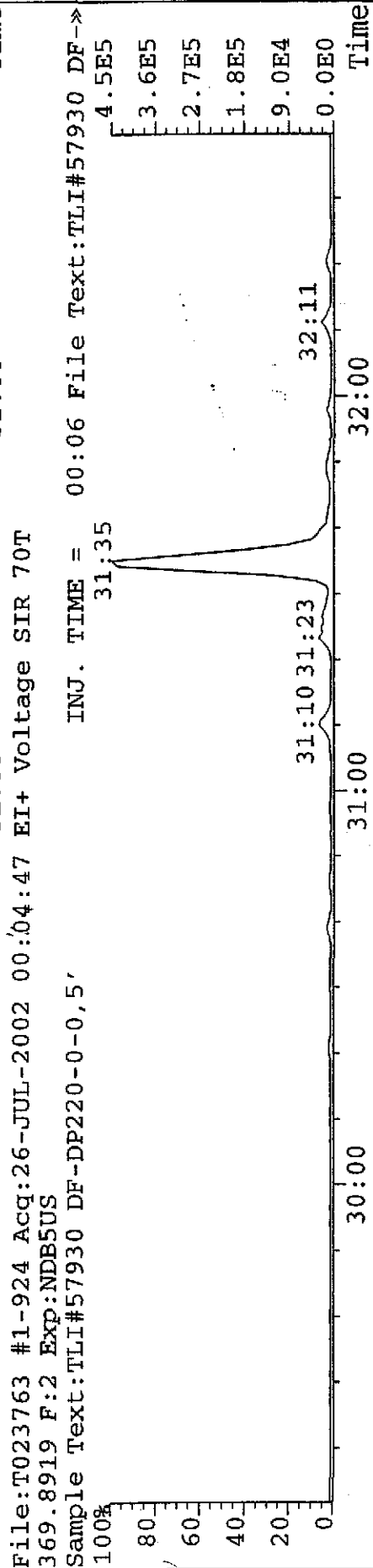
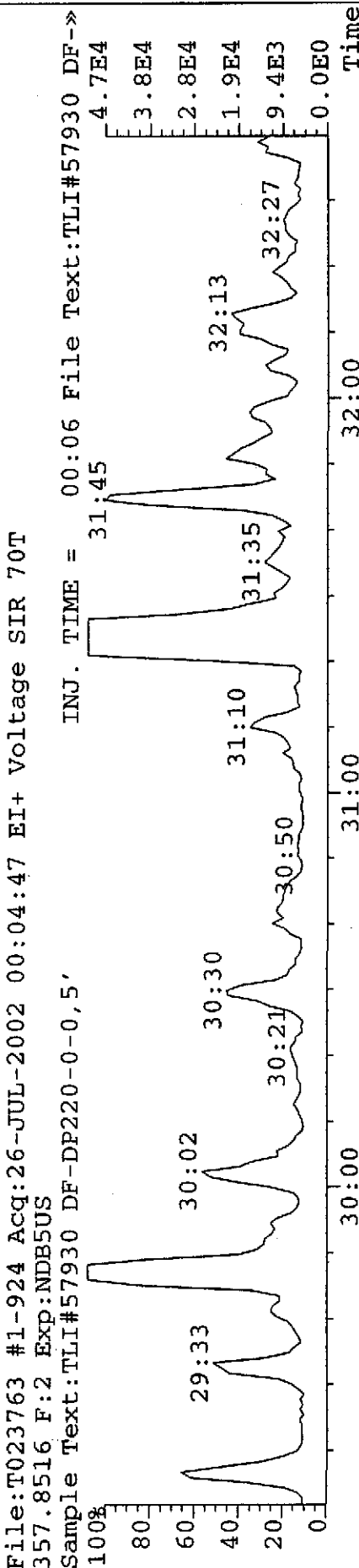
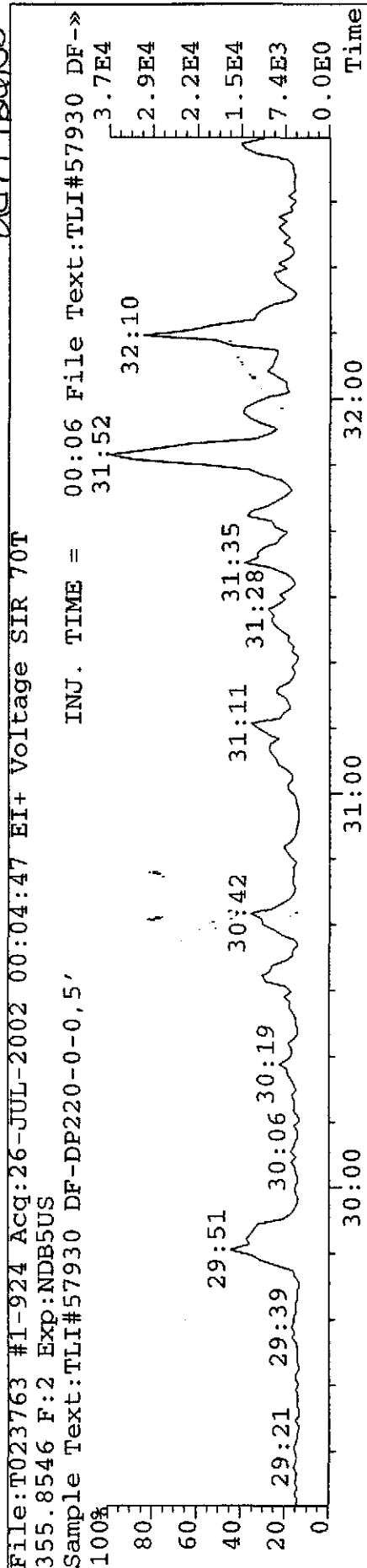
353.8970 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 00:06 File Text:TLI#57930 DF->



020720002



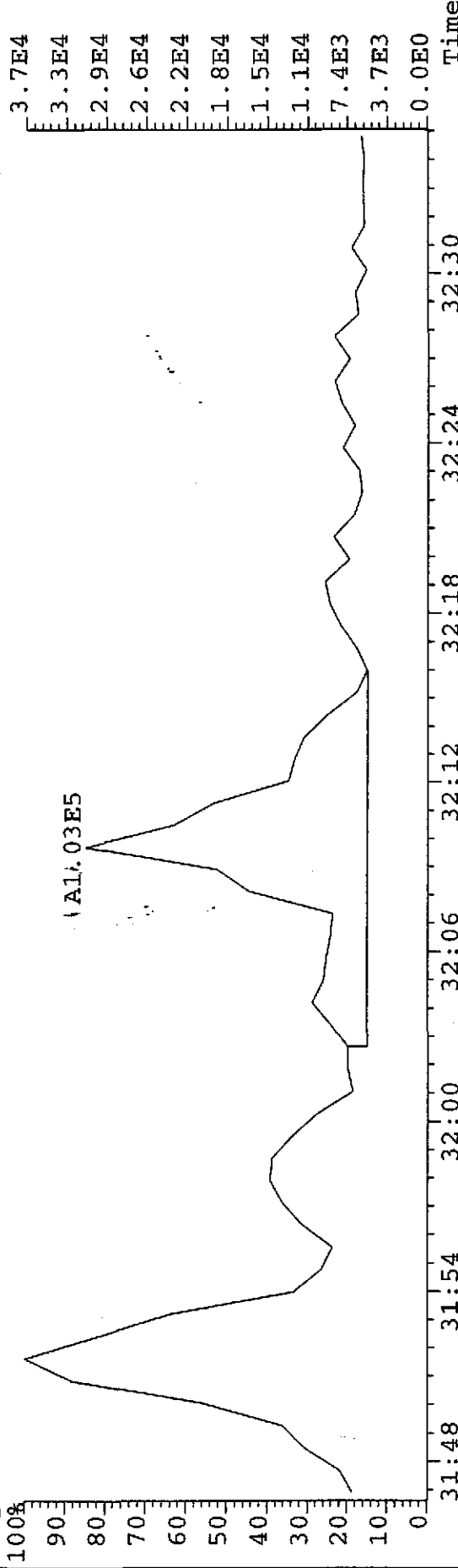
QAM 7/26/02

File: T023763 #1-924 Acq: 26-JUL-2002 00:04:47 EI+ Voltage SIR 70T

355.8546 F: 2 Exp: NDB5US

Sample Text: TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 00:06 File Text: TLI#57930 DF-->

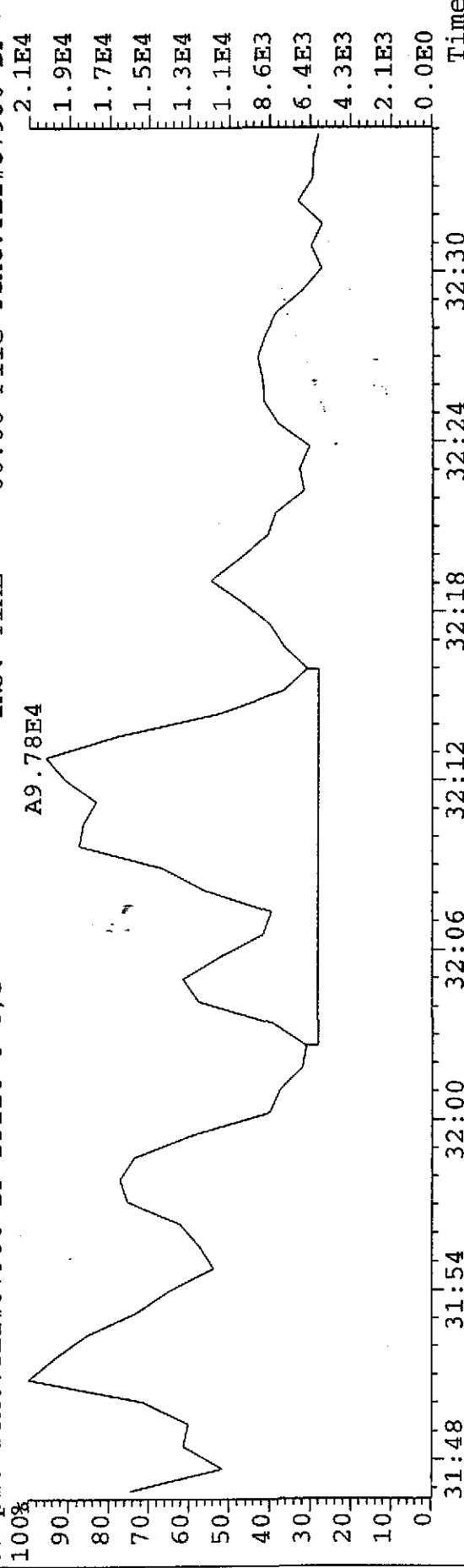


File: T023763 #1-924 Acq: 26-JUL-2002 00:04:47 EI+ Voltage SIR 70T

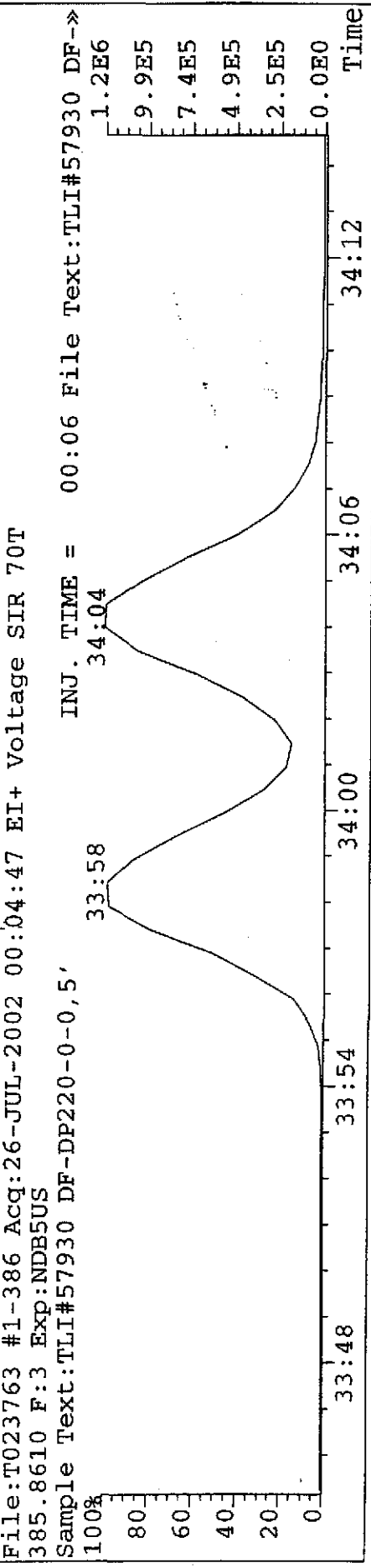
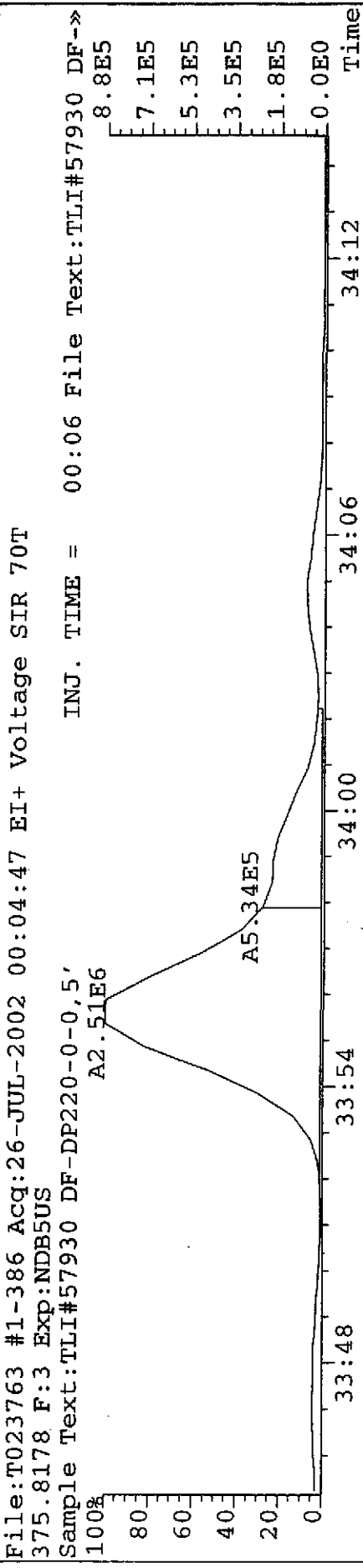
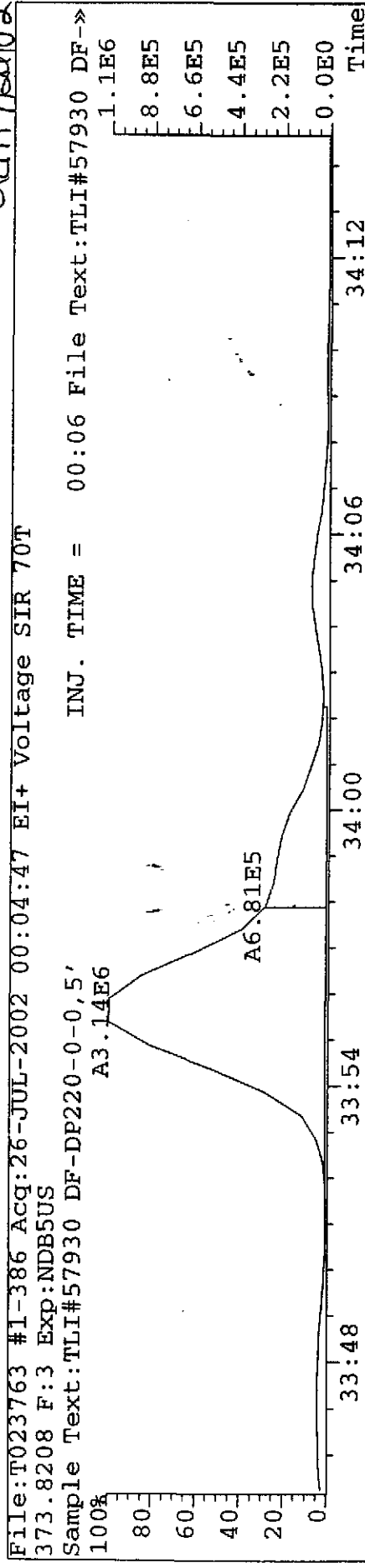
357.8516 F: 2 Exp: NDB5US

Sample Text: TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 00:06 File Text: TLI#57930 DF-->



SEM7121102



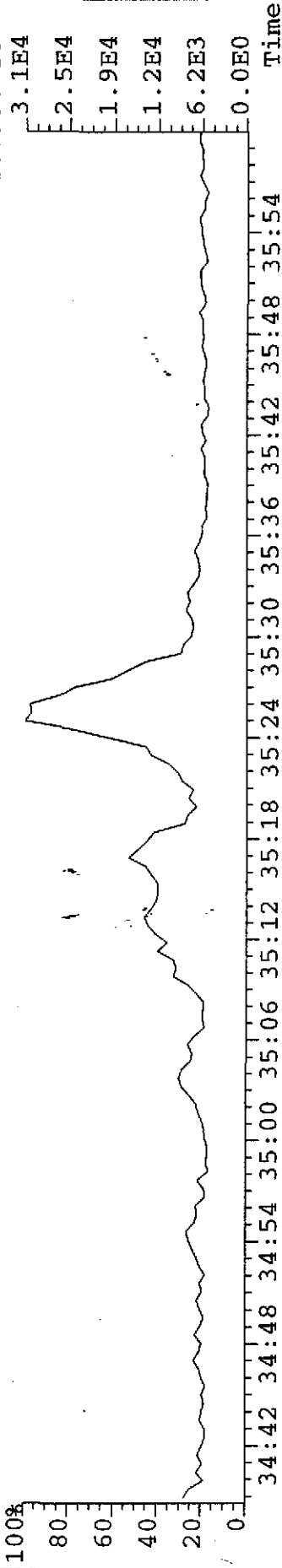
0200712002

File:T023763 #1-386 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T

373.8208 F:3 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 00:06 File Text:TLI#57930 DF->

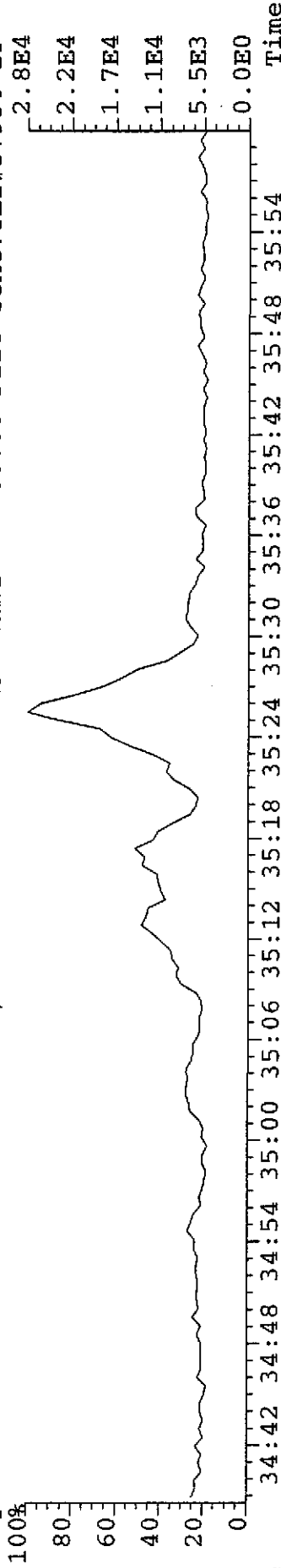


File:T023763 #1-386 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T

375.8178 F:3 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 00:06 File Text:TLI#57930 DF->

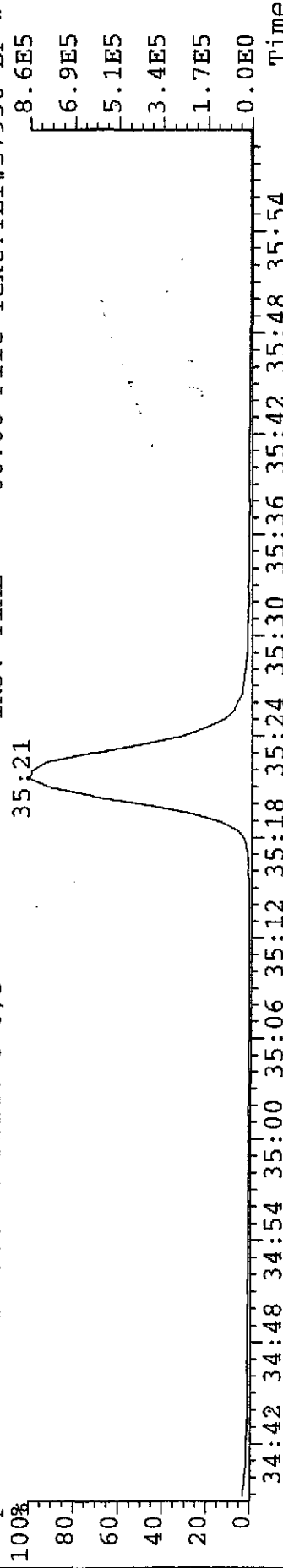


File:T023763 #1-386 Acq:26-JUL-2002 00:04:47 EI+ Voltage SIR 70T

385.8610 F:3 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 00:06 File Text:TLI#57930 DF->



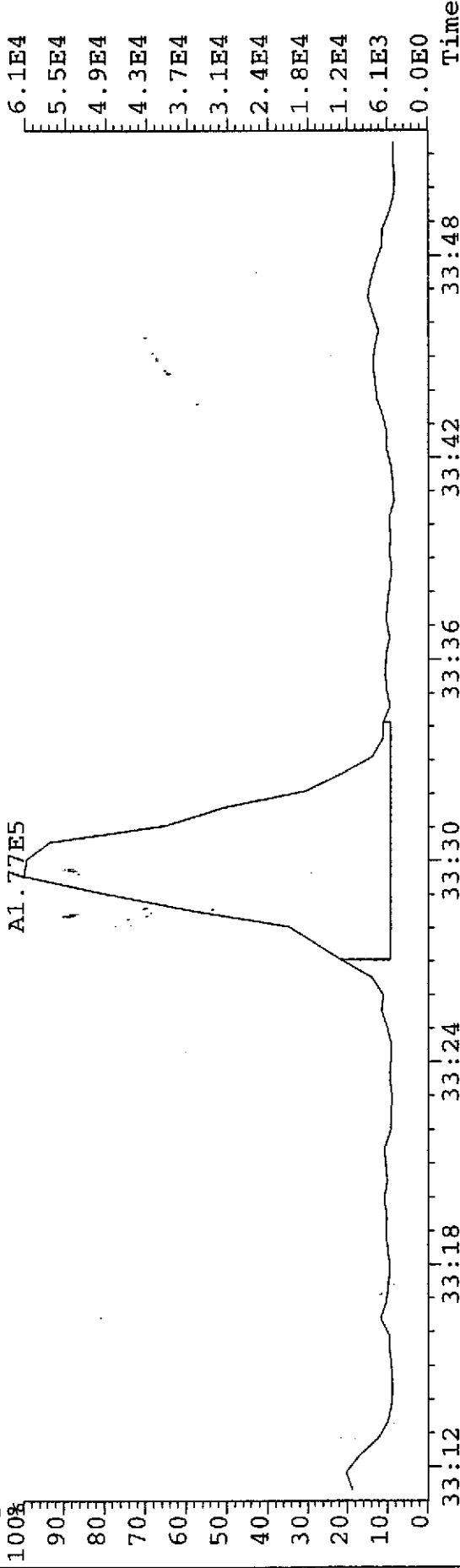
QEM 7/26/02

File: T023763 #1-386 Acq: 26-JUL-2002 00:04:47 EI+ Voltage SIR 70T

389.8156 F:3 Exp: NDB5US

Sample Text: TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 00:06 File Text: TLI#57930 DF->

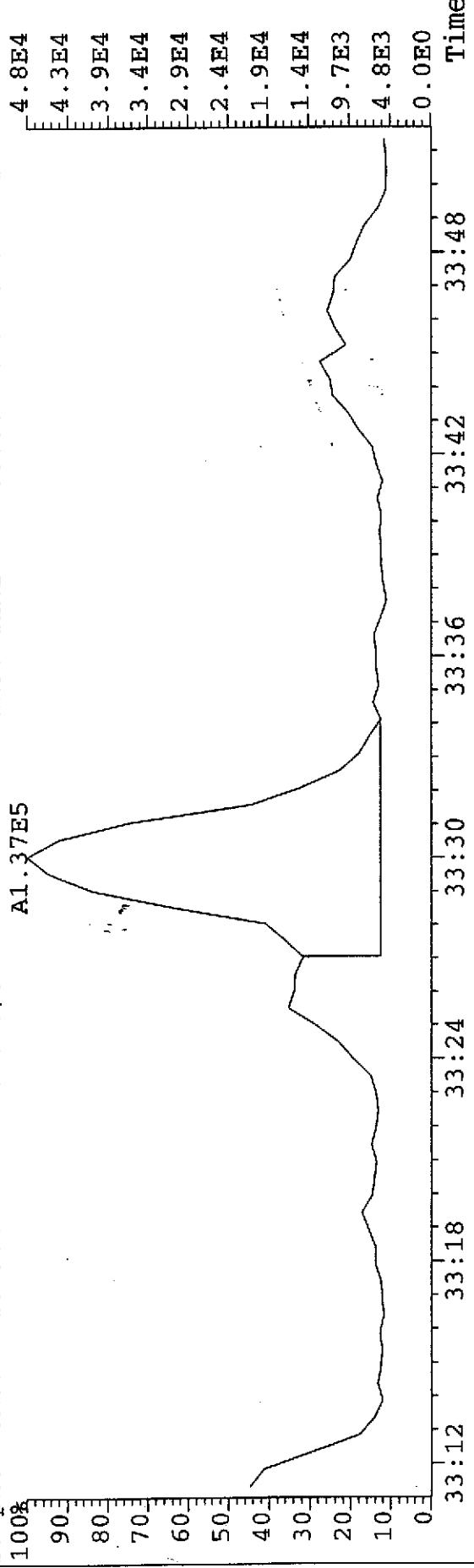


File: T023763 #1-386 Acq: 26-JUL-2002 00:04:47 EI+ Voltage SIR 70T

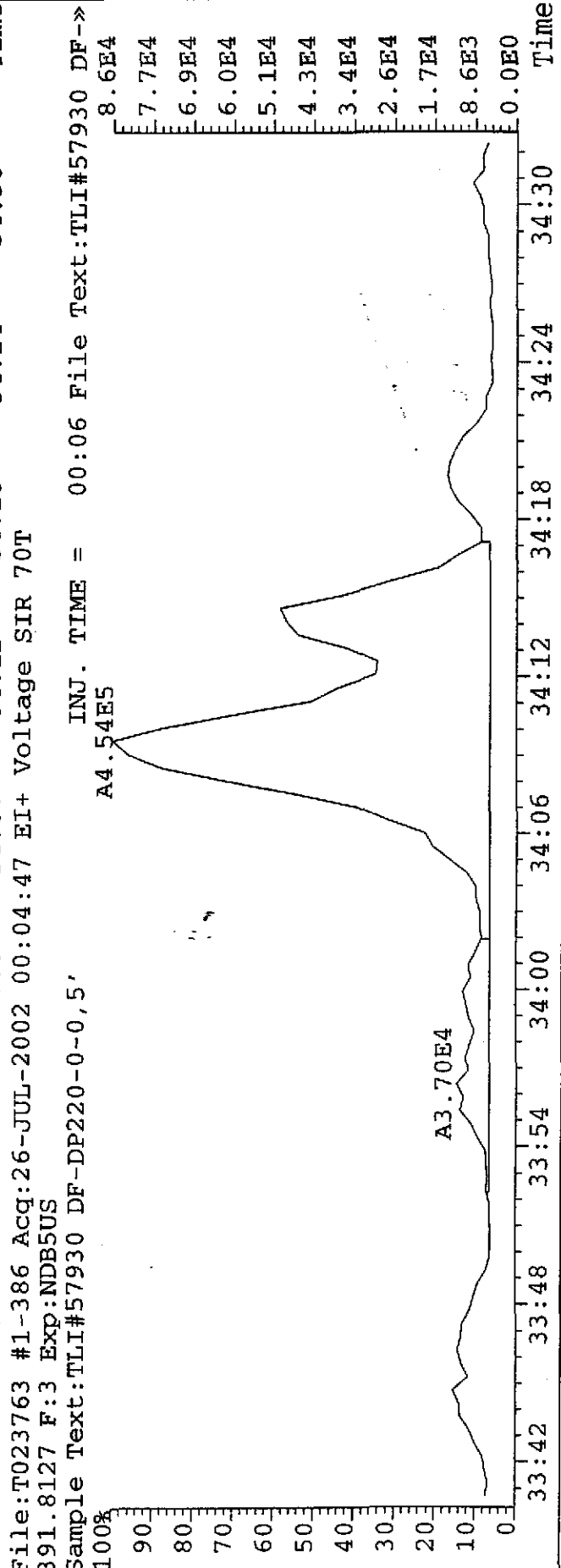
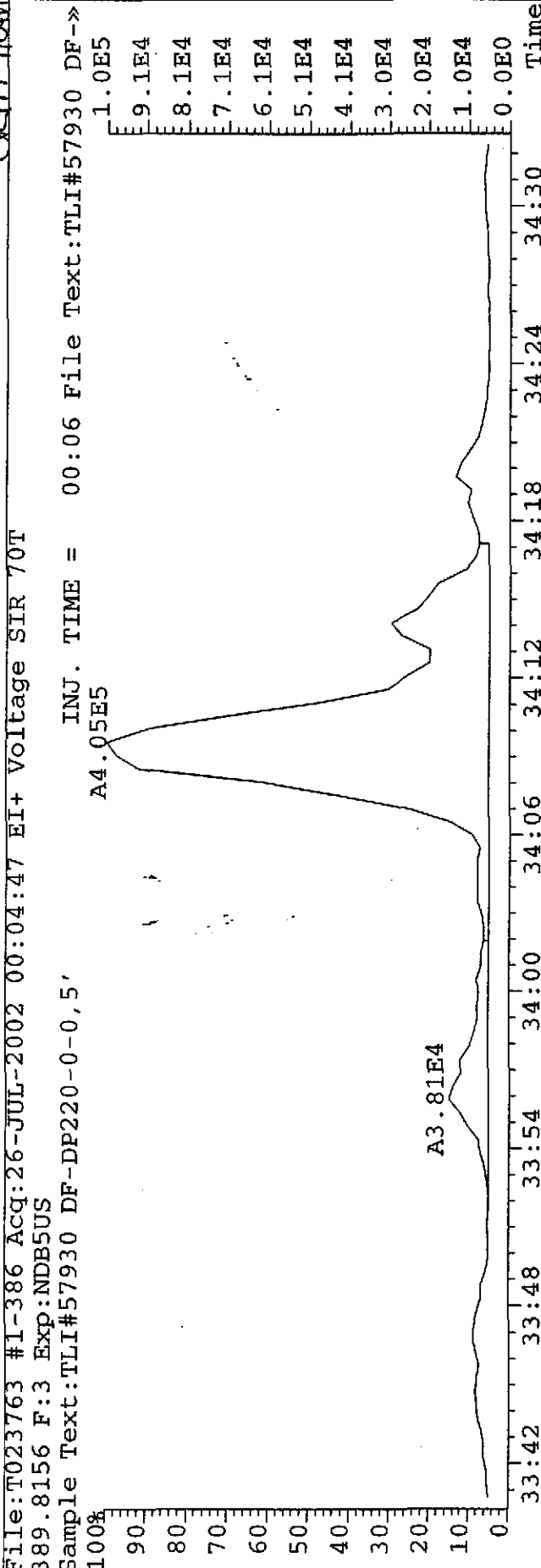
391.8127 F:3 Exp: NDB5US

Sample Text: TLI#57930 DF-DP220-0-0,5'

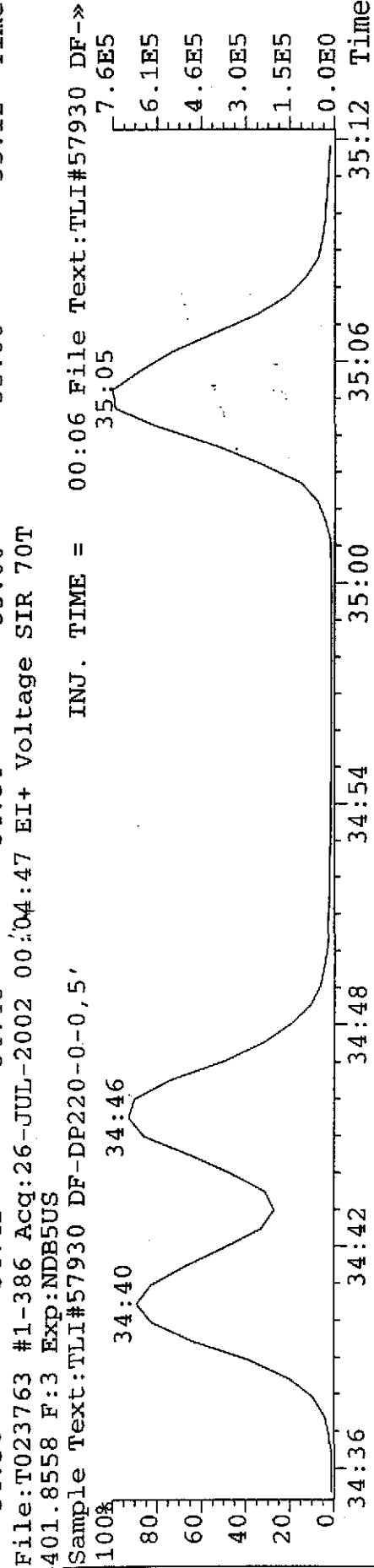
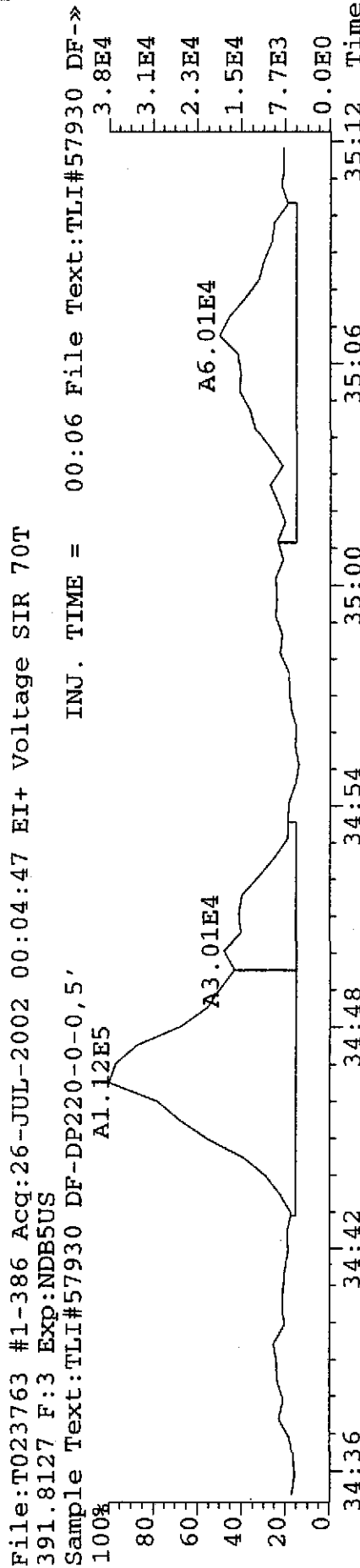
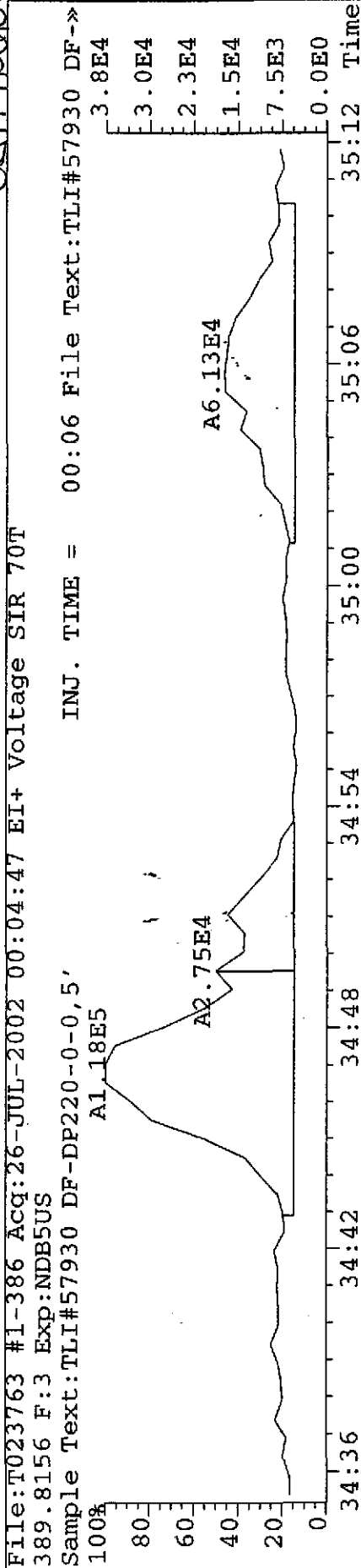
INJ. TIME = 00:06 File Text: TLI#57930 DF->



08M712102



QEM 718012



Martin & Slagle

TLI Project: 57930 1613, Revision B, Tetra Only PCDD/PCDF Analysis (c)
 Client Sample: DF-DP220-0-0,5' Analysis File: P022693

Client Project: Kuhlman Electric	Date Received: 07/20/2002	Spike File: SPCONB2S
Sample Matrix: SOLID	Date Extracted: 07/23/2002	ICal: PF56152
TLI ID: 331-18-1	Date Analyzed: 07/26/2002	ConCal: P022684
Sample Size: 12.500 g	Dilution Factor: n/a	% Moisture: 19.8
Dry Weight: 10.025 g	Blank File: T023762	% Lipid: n/a
GC Column: DB-225	Analyst: JSY	% Solids: 80.2

Analytes	Conc. (pg/g)	DL	Ratio	RT	RRT	Flags
2,3,7,8-TCDF	13.3		0.70	23:29	1.001	—

Internal Standard	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	RRT	Flags
¹³ C ₁₂ -2,3,7,8-TCDF	173	87.0	29%-140%	0.79	23:28	1.052	—

Recovery Standard	Ratio	RT	Flags
¹³ C ₁₂ -1,2,3,4-TCDD	0.87	22:18	—

Data Reviewer: kw 07/27/2002

InitialDate...

KW 7/27/02

Data Review By:

Channel specific noise levels computed from 'NL' heights.

Page No. 1
07/27/2002

Listing of P022693B.dbf
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.

		0.65-0.89			0.794-1.103		
		Height			0.13		
TCDF				0.24	0.11		
304-306	DC NL						
	DC SN	18:43	0.81	0.56		0.798	
	DC SN	18:50	RO 3.14	0.29		0.803	
		19:02	RO 0.52	1.00	0.34	0.66	0.811
		19:33	0.87	44.24	20.61	23.63	0.833
		19:49	0.65	8.21	3.24	4.97	0.844
		19:57	0.74	11.39	4.84	6.55	0.850
	DC SN	20:17	RO 0.25	0.40			0.864
		20:35	RO 0.93	5.67	2.73	2.94	0.877
		20:40	RO 1.03	2.76	1.40	1.36	0.881
		20:49	0.81	4.70	2.10	2.60	0.887
		20:59	0.65	4.39	1.73	2.66	0.894
		21:07	0.75	19.66	8.44	11.22	0.900
		21:33	0.81	13.36	5.96	7.40	0.918
		21:49	0.75	34.09	14.56	19.53	0.930
		21:58	RO 0.44	4.71	1.45	3.26	0.936
		22:21	RO 1.18	5.89	3.19	2.70	0.952
		22:36	RO 0.24	2.29	0.44	1.85	0.963
		23:08	0.73	1.76	0.74	1.02	0.986
		23:17	RO 0.54	2.29	0.80	1.49	0.992
	M	23:29	0.70	9.85	4.07	5.78	1.001 2378-TCDF AN
		23:47	0.76	15.01	6.49	8.52	1.013
		24:04	0.78	133.01	58.18	74.83	1.026
	DC SN	24:24	RO 0.20	0.54			1.040
	DC SN	24:28	RO 1.20	0.33			1.043
	DC SN	24:56	RO 0.90	0.80			1.063
		25:11	0.72	3.00	1.26	1.74	1.073
		25:24	RO 1.13	6.30	3.34	2.96	1.082
	DC SN	25:33	RO 0.60	0.67			1.089
	DC WH	25:59	0.86	0.54			1.107
	DC WH	26:07	RO 1.96	2.10			1.113
	DC WH	26:12	RO 1.54	2.08			1.116
304-306		-21 Peaks		333.58			

		0.65-0.89			0.957-1.043		
		Height			0.16		
13C12-TCDF				0.23	0.07		
316-318	DC NL						
	DC WL	18:55	RO 0.29	0.09		0.806	
	DC WL	19:54	RO 0.60	0.16		0.848	
	DC WL	20:00	RO 1.32	0.58		0.852	
	DC WL	20:04	RO 0.50	0.21		0.855	
	DC WL	20:16	RO 0.55	0.34		0.864	
	DC WL	20:27	RO 0.57	0.44		0.871	
	DC WL	20:28	RO 1.14	0.30		0.872	
	DC WL	21:31	RO 0.41	0.38		0.917	
	DC WL	22:00	RO 1.21	1.55		0.938	
	DC WL	22:15	RO 3.00	0.16		0.948	

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

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			22:38	RO	0.13	1.14			0.964			
					23:28		0.79	131.65	58.24	73.41	1.000	13C12-2378-TCDF	ISO	
							Height	27.43	11.67	15.76				
	DC	SN			23:51	RO	2.14	0.22			1.016			
	DC	SN			24:03	RO	1.02	0.89			1.025			
	DC	SN			24:11	RO	1.38	0.19			1.031			
	DC	WH			24:51	RO	0.26	0.29			1.059			
	DC	WH			24:56	RO	0.76	0.37			1.063			
	DC	WH			25:23	RO	2.17	0.38			1.082			
	DC	WH			25:51	RO	2.88	0.31			1.102			
	DC	WH			25:58	RO	0.82	0.20			1.107			
	DC	WH			26:07	RO	0.17	0.70			1.113			
316-318							1 Peak	131.65						

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

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						0.909-1.091			
332-334	DC	NL					Height	0.34	0.25	0.09				
	DC	SN			20:41	RO	9.17	0.61			0.939			
	DC	SN			21:43	RO	0.71	0.41			0.986			
					22:01		0.81	81.51	36.43	45.08	1.000	13C12-2378-TCDD	IS1	
							Height	14.00	6.17	7.83				
					22:18		0.87	99.66	46.40	53.26	1.013	13C12-1234-TCDD	RS1	
					22:31	RO	1.33	0.77	0.44	0.33	1.023			
	DC	SN			23:48	RO	4.29	0.37			1.081			
	DC	WH			24:31	RO	8.88	0.79			1.114			
	DC	WH			24:43	RO	15.86	2.36			1.123			
	DC	WH			24:46	RO	16.39	4.00			1.125			
332-334							3 Peaks	181.94						

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

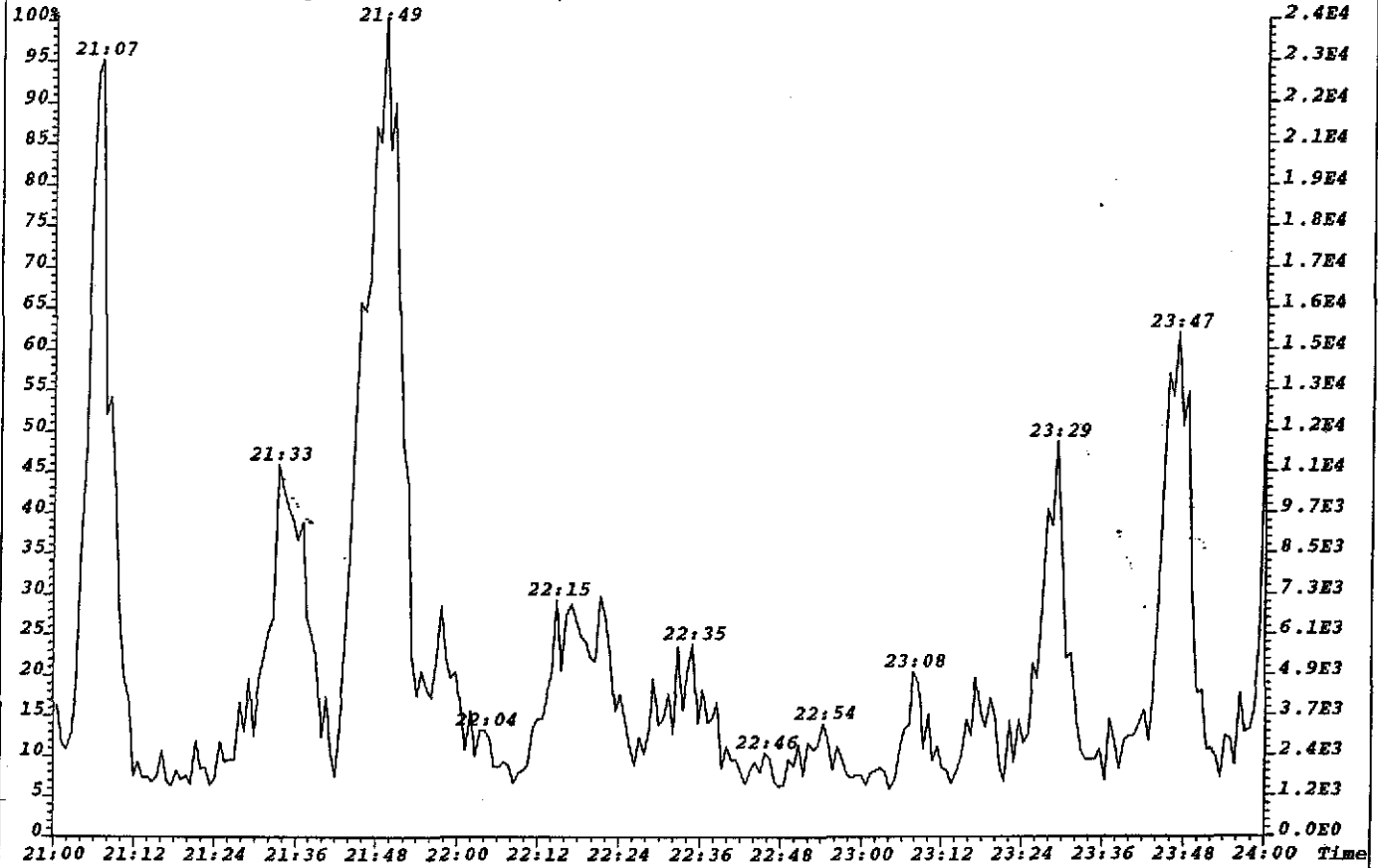
*** End of Report ***

File: P022693 #1-3026 Acq: 26-JUL-2002 12:18:24 EI+ Voltage SIR 70P

303.9016 GC: DB225 Exp: none

TRIANGLE LABS Text: TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 12:18

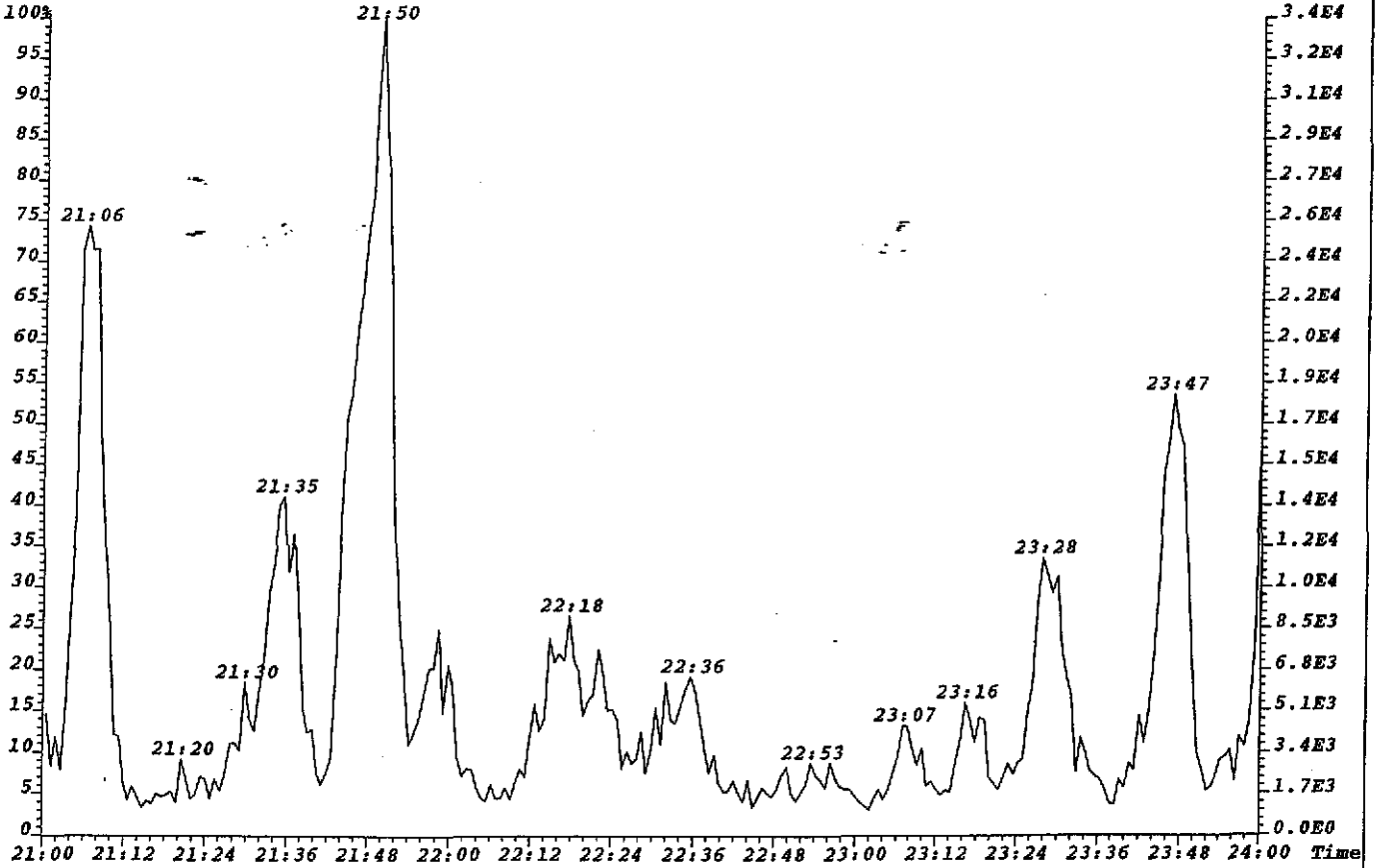


File: P022693 #1-3026 Acq: 26-JUL-2002 12:18:24 EI+ Voltage SIR 70P

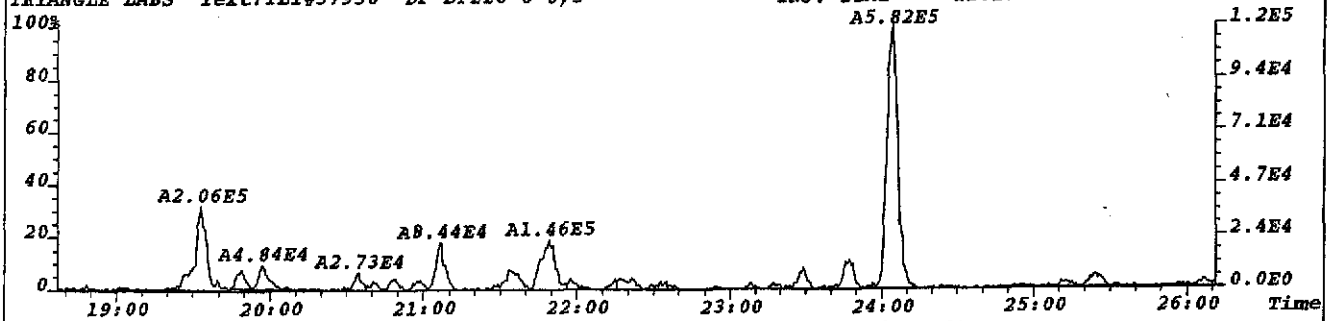
305.8987 GC: DB225 Exp: none

TRIANGLE LABS Text: TLI#57930 DF-DP220-0-0,5'

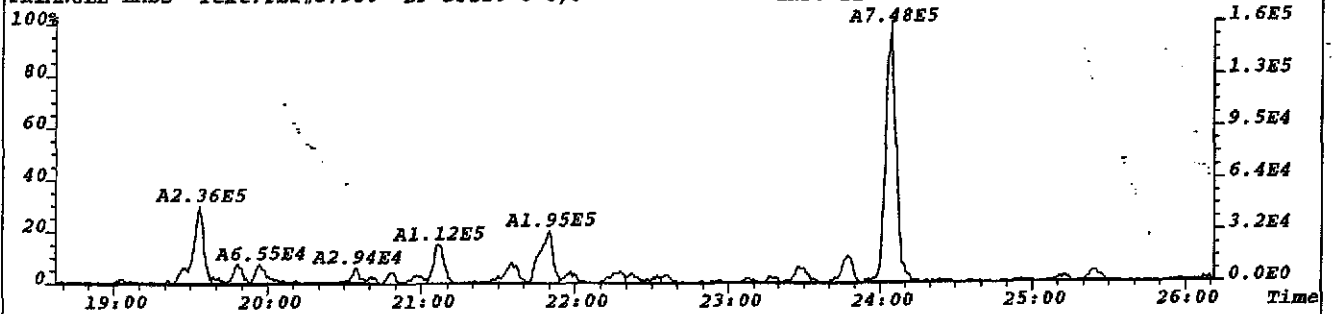
INJ. TIME = 12:18



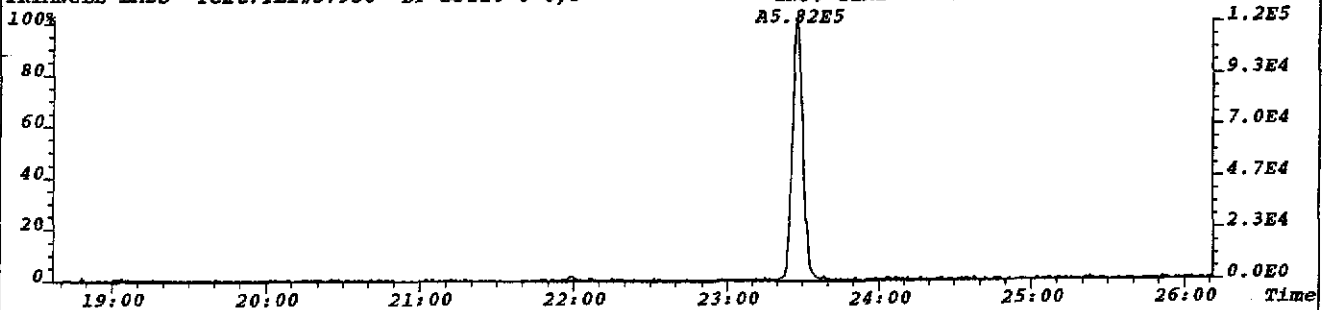
File:P022693 #1-3026 Acq:26-JUL-2002 12:18:24 EI+ Voltage SIR 70P Noise:143
303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,572.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 12:18



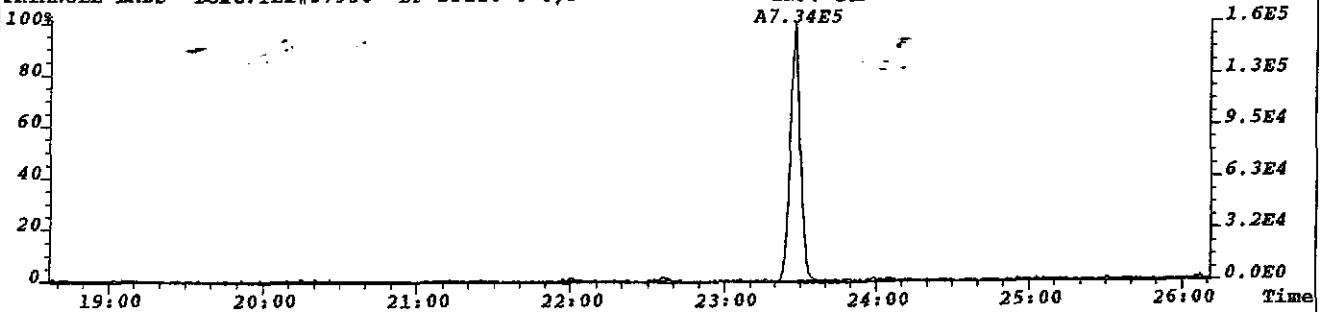
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305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,672.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 12:18



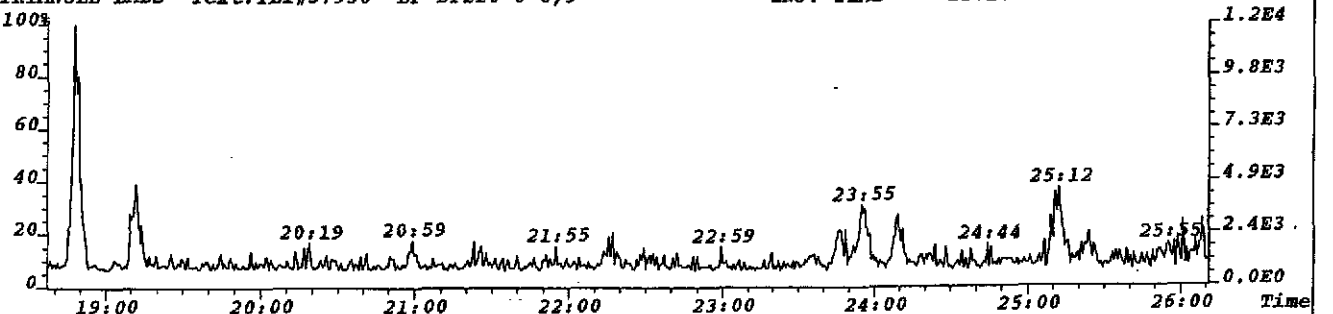
File:P022693 #1-3026 Acq:26-JUL-2002 12:18:24 EI+ Voltage SIR 70P Noise:88
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,352.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 12:18



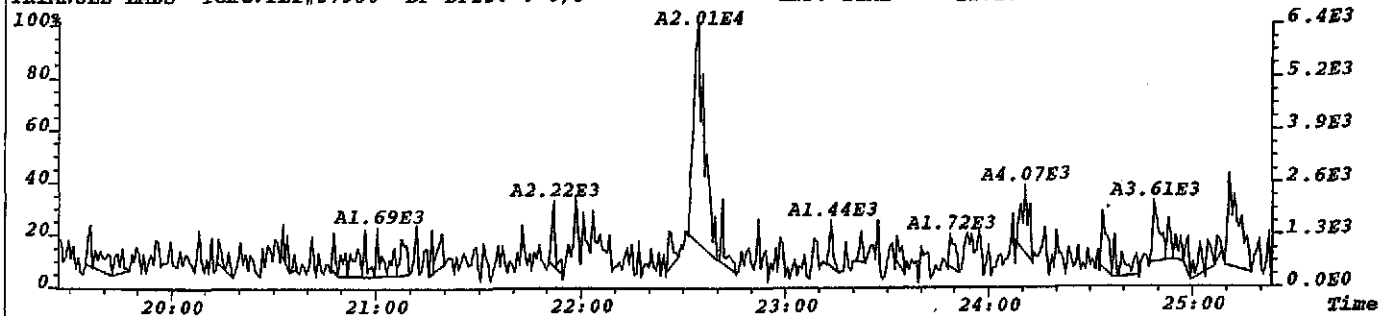
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317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,776.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 12:18



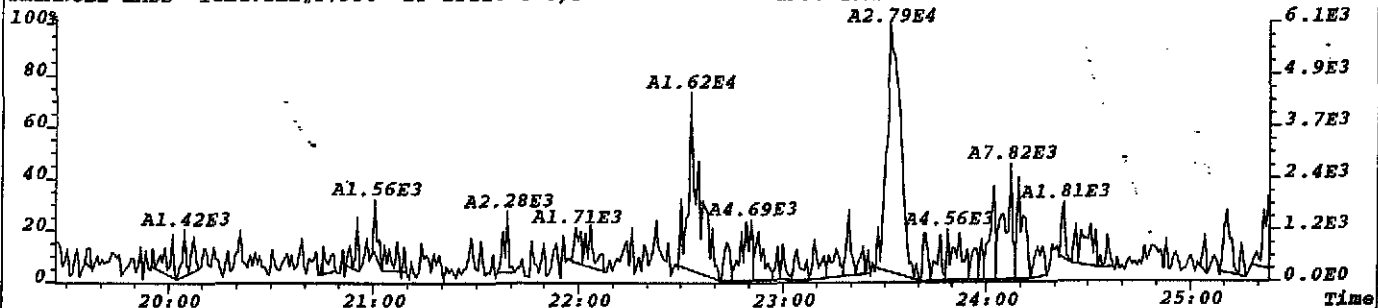
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375.8364 Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 12:18



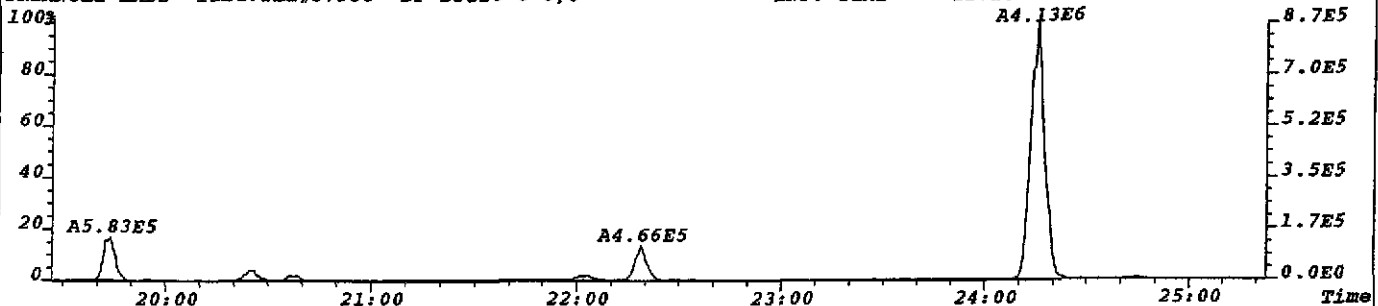
File:P022693 #1-3026 Acq:26-JUL-2002 12:18:24 EI+ Voltage SIR 70P Noise:209
319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,836.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 12:18



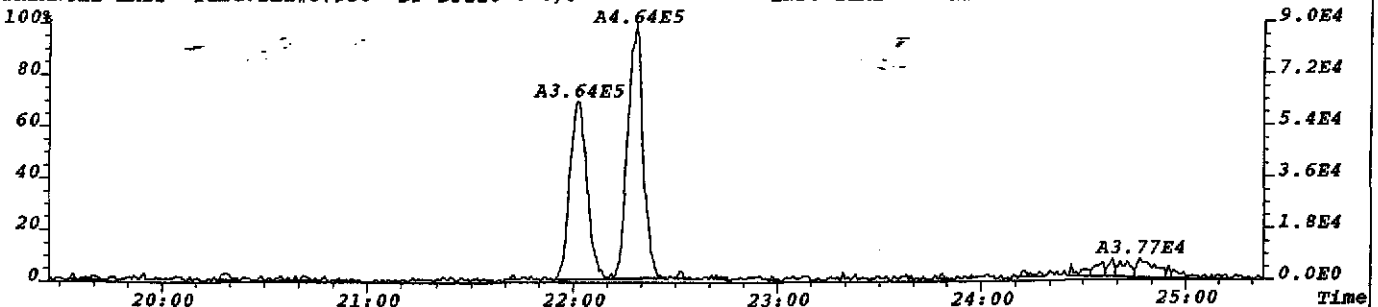
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321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,528.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 12:18



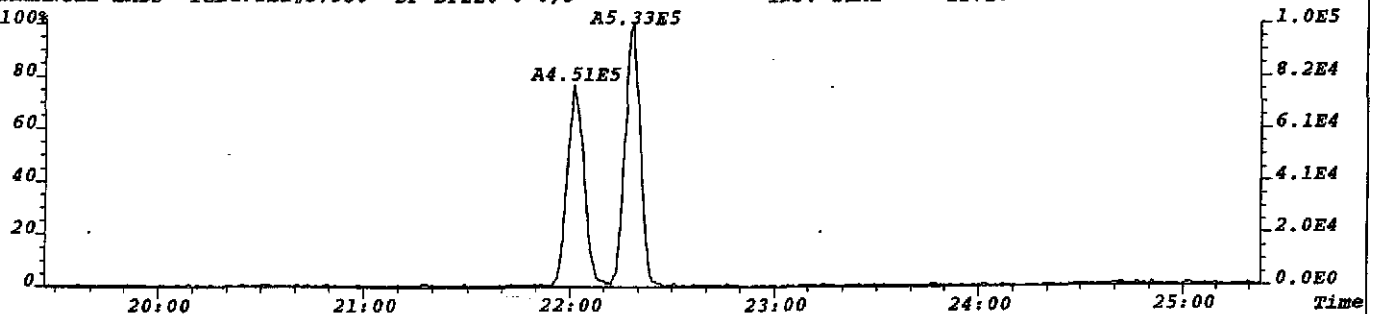
File:P022693 #1-3026 Acq:26-JUL-2002 12:18:24 EI+ Voltage SIR 70P Noise:119
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,476.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 12:18



File:P022693 #1-3026 Acq:26-JUL-2002 12:18:24 EI+ Voltage SIR 70P Noise:309
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1236.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 12:18



File:P022693 #1-3026 Acq:26-JUL-2002 12:18:24 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:TLI#57930 DF-DP220-0-0,5' INJ. TIME = 12:18

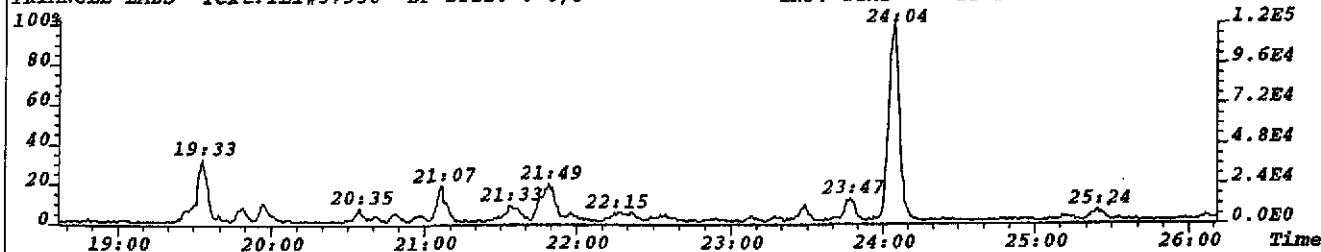


File:P022693 #1-3026 Acq:26-JUL-2002 12:18:24 EI+ Voltage SIR 70P

303.9016 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 12:18

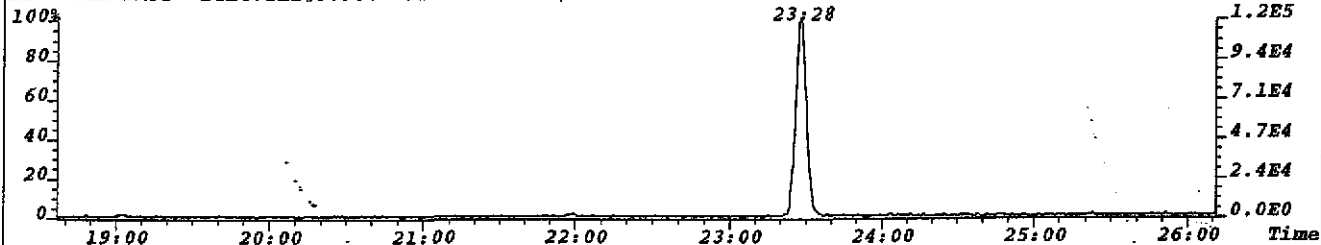


File:P022693 #1-3026 Acq:26-JUL-2002 12:18:24 EI+ Voltage SIR 70P

315.9419 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 12:18

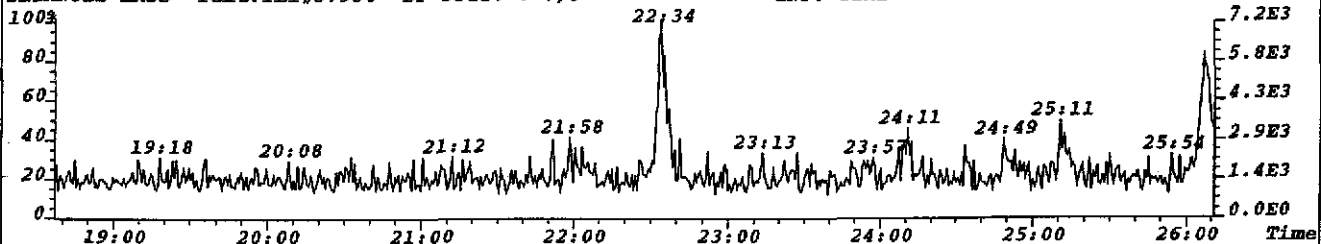


File:P022693 #1-3026 Acq:26-JUL-2002 12:18:24 EI+ Voltage SIR 70P

319.8965 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 12:18

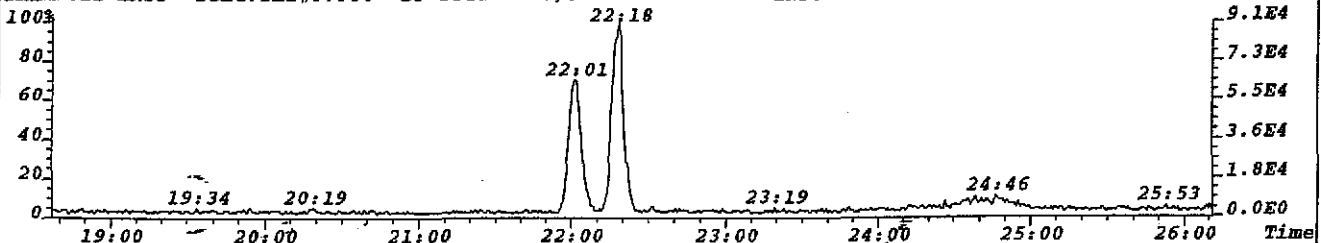


File:P022693 #1-3026 Acq:26-JUL-2002 12:18:24 EI+ Voltage SIR 70P

331.9368 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 12:18

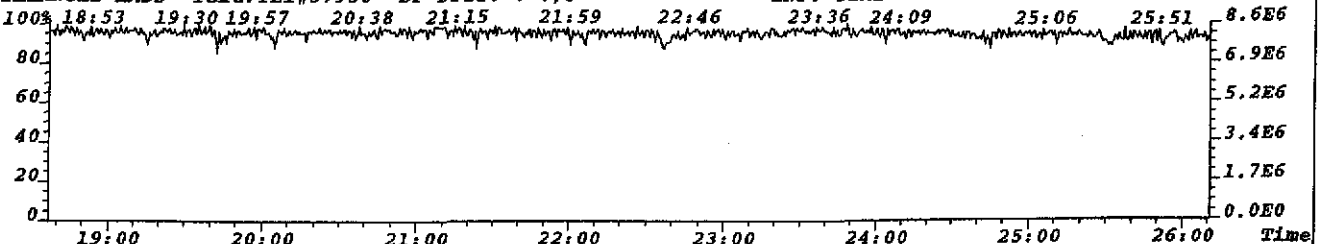


File:P022693 #1-3026 Acq:26-JUL-2002 12:18:24 EI+ Voltage SIR 70P

292.9825 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 12:18

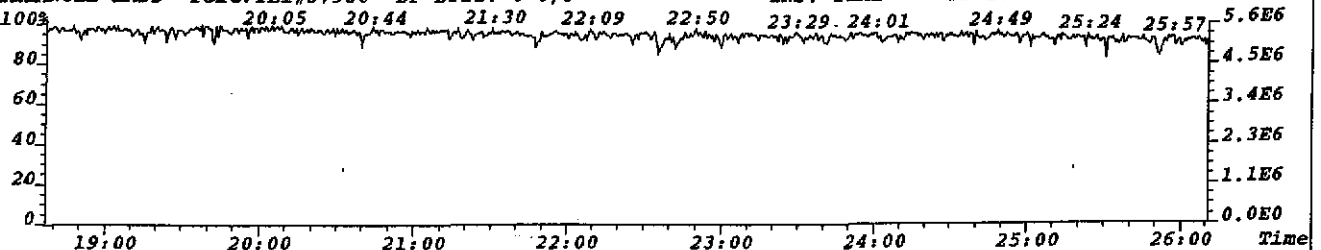


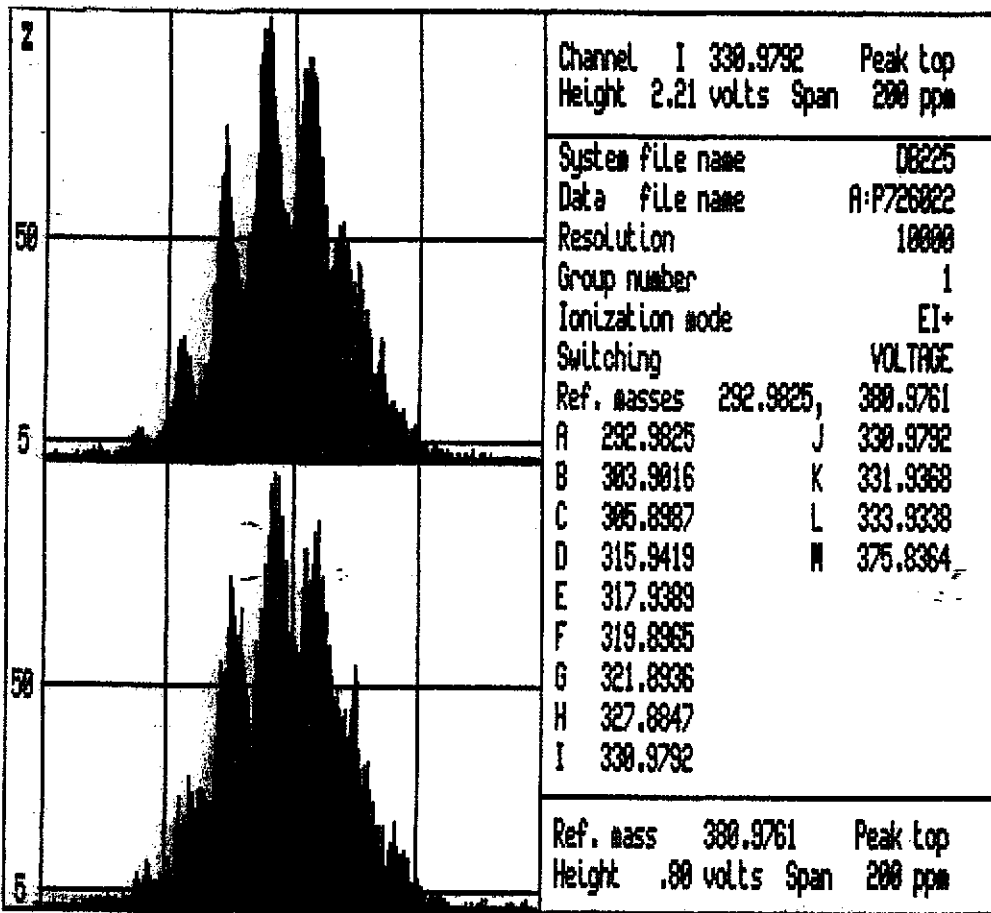
File:P022693 #1-3026 Acq:26-JUL-2002 12:18:24 EI+ Voltage SIR 70P

330.9792 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-0-0,5'

INJ. TIME = 12:18





File: P022693 #1-3026 Acq: 26-JUL-2002 12:18:24 EI+ Voltage SIR 70P
 303.9016 Exp: DB225
 Sample Text: TLI#57930 DF-DP220-0-0,5' INJ. TIME = 12:18 File Text: TLI#57930 DF»
 100% 19:00 20:00 21:00 22:00 23:00
 50 0
 A4.07E4
 3.9E4
 2.0E4
 0.0E0
 Time

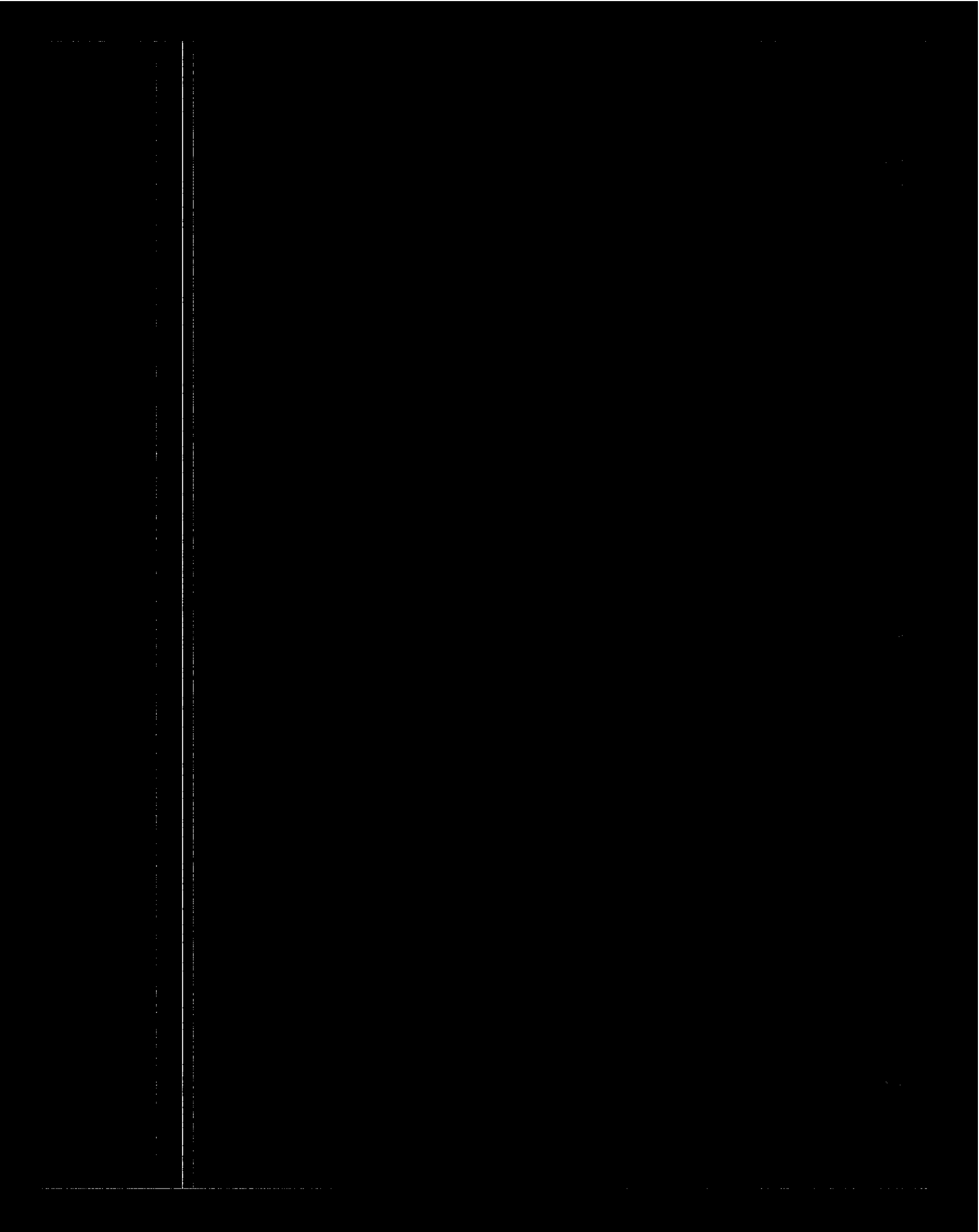
File: P022693 #1-3026 Acq: 26-JUL-2002 12:18:24 EI+ Voltage SIR 70P
 305.8987 Exp: DB225
 Sample Text: TLI#57930 DF-DP220-0-0,5' INJ. TIME = 12:18 File Text: TLI#57930 DF»
 100% 19:00 20:00 21:00 22:00 23:00
 50 0
 A5.78E4
 4.9E4
 2.5E4
 0.0E0
 Time

File: P022693 #1-3026 Acq: 26-JUL-2002 12:18:24 EI+ Voltage SIR 70P
 315.9419 Exp: DB225
 Sample Text: TLI#57930 DF-DP220-0-0,5' INJ. TIME = 12:18 File Text: TLI#57930 DF»
 100% 19:00 20:00 21:00 22:00 23:00
 50 0
 23:28
 1.2E5
 5.9E4
 0.0E0
 Time

File: P022693 #1-3026 Acq: 26-JUL-2002 12:18:24 EI+ Voltage SIR 70P
 317.9389 Exp: DB225
 Sample Text: TLI#57930 DF-DP220-0-0,5' INJ. TIME = 12:18 File Text: TLI#57930 DF»
 100% 19:00 20:00 21:00 22:00 23:00
 50 0
 23:28
 1.6E5
 8.0E4
 0.0E0
 Time

Handwritten: Kew 11-27/02





Martin & Slagle

TLI Project: 57930 1613, Revision B PCDD/PCDF Analysis (c)
 Client Sample: DF-DP220-0,5-1' Analysis File: T023764

Client Project: Kuhlman Electric	Date Received: 07/20/2002	Spike File: SP161B2S
Sample Matrix: SOLID	Date Extracted: 07/23/2002	ICal: TF5612B
TLI ID: 331-18-2	Date Analyzed: 07/26/2002	ConCal: TB23758
Sample Size: 12.900 g	Dilution Factor: n/a	% Moisture: 21.9
Dry Weight: 10.075 g	Blank File: T023762	% Lipid: n/a
GC Column: DB-5	Analyst: VSC	% Solids: 78.1

Analytes	Conc. (pg/g)	DL	Ratio	RT	RRT	Flags
2,3,7,8-TCDD	ND	0.3				---
1,2,3,7,8-PeCDD	1.1		1.34	31:34	1.000	J_
1,2,3,4,7,8-HxCDD	ND	0.3				---
1,2,3,6,7,8-HxCDD	2.8		1.37	34:46	1.001	J_
1,2,3,7,8,9-HxCDD	1.4		1.21	35:04	1.010	J_
1,2,3,4,6,7,8-HpCDD	15.9		1.07	38:05	1.000	---
1,2,3,4,6,7,8,9-OCDD	352		0.84	41:54	1.000	---
2,3,7,8-TCDF	7.9		0.87	26:43	1.001	---
1,2,3,7,8-PeCDF	1.6		1.50	30:34	1.001	J_
2,3,4,7,8-PeCDF	4.9		1.47	31:15	1.001	J_
1,2,3,4,7,8-HxCDF	11.9		1.27	33:58	1.000	---
1,2,3,6,7,8-HxCDF	5.0		1.35	34:03	1.000	---
2,3,4,6,7,8-HxCDF	4.8		1.25	34:33	1.000	J_
1,2,3,7,8,9-HxCDF	ND	0.3				---
1,2,3,4,6,7,8-HpCDF	115		1.07	37:02	1.000	---
1,2,3,4,7,8,9-HpCDF	ND	3.5				---
1,2,3,4,6,7,8,9-OCDF	34.7		0.90	42:06	1.005	---

Totals	Conc. (pg/g)	Number	DL	Flags
Total TCDD	ND		3.2	---
Total PeCDD	4.0	2		---
Total HxCDD	8.5	3		---
Total HpCDD	32.1	2		---
Total TCDF	103	11		---
Total PeCDF	299	20		---
Total HxCDF	174	12		---
Total HpCDF	174	3		---

TLI Project: 57930
 Client Sample: DF-DP220-0,5-1'

Toxicity Equivalents Report
 Analysis File: T023764

Client Project:	Kuhlman Electric	Date Received:	07/20/02	Spike File:	SP161B2S
Sample Matrix:	SOLID	Date Extracted:	07/23/02	ICal:	TF5612B
TLI ID:	331-18-2	Date Analyzed:	07/26/02	ConCal:	TB23758
Sample Size:	12.900 g	Dilution Factor:	1	% Moisture:	21.9
Dry Weight:	10.075 g	Blank File:	T023762	% Lipid:	n/a
GC Column:	DB-5	Analyst:	VSC	% Solids:	78.1

Analytes	Conc: (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	{0.3}	x	1	=	0.3
1,2,3,7,8-PeCDD	1.1	x	0.5	=	0.55
1,2,3,4,7,8-HxCDD	{0.3}	x	0.1	=	0.03
1,2,3,6,7,8-HxCDD	2.8	x	0.1	=	0.28
1,2,3,7,8,9-HxCDD	1.4	x	0.1	=	0.14
1,2,3,4,6,7,8-HpCDD	15.9	x	0.01	=	0.159
1,2,3,4,6,7,8,9-OCDD	352	x	0.001	=	0.352
TOTAL PCDD					1.8
2,3,7,8-TCDF	5.0	x	0.1	=	0.50
1,2,3,7,8-PeCDF	1.6	x	0.05	=	0.080
2,3,4,7,8-PeCDF	4.9	x	0.5	=	2.5
1,2,3,4,7,8-HxCDF	11.9	x	0.1	=	1.19
1,2,3,6,7,8-HxCDF	5.0	x	0.1	=	0.50
2,3,4,6,7,8-HxCDF	4.8	x	0.1	=	0.48
1,2,3,7,8,9-HxCDF	{0.3}	x	0.1	=	0.03
1,2,3,4,6,7,8-HpCDF	115	x	0.01	=	1.15
1,2,3,4,7,8,9-HpCDF	{3.5}	x	0.01	=	0.035
1,2,3,4,6,7,8,9-OCDF	34.7	x	0.001	=	0.0347
TOTAL PCDF					6.5

Total EPA TEFs, 1989a: 8.3 pg/g

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

InitialDate...

Data Review By:

QEM 7/26/02

Calculated Noise Height: 0.09

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Listing of T023764B.dbf
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	0.17	0.10	0.07		
D	D WL	23:32	0.82	21.85		0.882	
		24:02 RO	0.94	6.47	3.13	0.901	
		24:11 RO	0.45	2.79	0.86	1.93 0.906	
		24:23 RO	1.39	2.91	1.69	1.22 0.914	
		24:36 RO	0.95	6.75	3.29	3.46 0.922	
		24:46	0.77	7.00	3.04	3.96 0.928	
		25:05	0.86	5.44	2.51	2.93 0.940	
		25:13	0.86	41.48	19.19	22.29 0.945	
		25:26	0.84	8.01	3.66	4.35 0.953	
		25:47	0.86	16.01	7.40	8.61 0.966	
		26:07	0.75	21.60	9.25	12.35 0.979	
		26:18	0.85	25.38	11.66	13.72 0.986	
		26:32 RO	0.95	9.83	4.80	5.03 0.994	
A		26:38	0.83	4.75	2.15	2.60 0.998	
M		26:43	0.87	29.30	13.60	15.70 1.001 2378-TCDF AN	
		27:08 RO	0.99	9.77	4.87	4.90 1.017	
		27:34	0.83	17.92	8.11	9.81 1.033	
		27:53	0.82	206.72	92.97	113.75 1.045	
	DC WH	28:39	0.80	1.75		1.074	
304-306		17 Peaks		422.13			

13C12-TCDF		0.65-0.89			0.944-1.131		
316-318	DC NL	Height	0.18	0.09	0.09		
		25:59 RO	0.56	1.72	0.62	1.10 0.974	
		26:18	0.67	6.06	2.44	3.62 0.986	
		26:41	0.75	696.69	299.14	397.55 1.000 13C12-2378-TCDF ISO	
				169.05	72.09	96.96	
		27:11 RO	0.49	2.00	0.66	1.34 1.019	
		27:24 RO	0.27	3.07	0.65	2.42 1.027	
316-318		5 Peaks		709.54			

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

TCDD		0.65-0.89			0.905-1.042		
320-322	DC NL	Height	0.14	0.07	0.07		
	DC SN	25:05	0.89	0.17		0.915	
	DC SN	25:12 RO	2.50	0.28		0.920	
	DC SN	25:19 RO	2.06	0.49		0.924 1379-TCDD AN	
	DC SN	25:35 RO	1.08	0.52		0.934	
	DC SN	26:01 RO	0.93	0.54		0.950	
D	D SN	27:24 RO	0.98	1.94		1.000 2378-TCDD AN	
D	D SN	27:31 RO	1.00	1.00		1.004	
M		27:48 RO	1.47	1.58	0.94	0.64 1.015	
		27:58 RO	1.81	7.11	4.58	2.53 1.021	
	DC SN	28:06 RO	0.16	1.06		1.026	

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	28:22	RO	0.36	0.61			1.035		
	DC	WH	28:34		0.68	1.55			1.043		
	DC	WH	28:40	RO	0.52	0.44			1.046		
320-322			2 Peaks			8.69					

37C1-TCDD	0.927-1.073										
328	DC	NL	Height		0.10	0.10					
			25:45		2.10	2.10			0.940		
			26:03		309.95	309.95			0.951		
			26:29		1.87	1.87			0.967		
			27:24		74.15	74.15			1.000	37C1-TCDD	CLS
			27:46		892.62	892.62			1.013		
			28:08		1.69	1.69			1.027		
			28:41		14.30	14.30			1.047		
328			7 Peaks			1,296.68					

13C12-TCDD	0.65-0.89										
332-334	DC	NL	Height		0.26	0.19	0.07				
			27:12	0.81	620.71	278.02	342.69	0.993	13C12-1234-TCDD	RS1	
			27:24	0.79	511.82	226.40	285.42	1.000	13C12-2378-TCDD	IS1	
			Height		131.94	58.52	73.42				
			27:49	RO	4.47	2.90	0.53	1.015			
332-334			3 Peaks			1,135.43					

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

PeCDF	1.32-1.78										
340-342	DC	NL	Height		0.13	0.05	0.08				
			28:30	1.63	20.92	12.96	7.96	0.912			
			28:39	1.50	34.54	20.75	13.79	0.917			
			28:53	1.55	45.22	27.50	17.72	0.925			
			29:06	1.44	3.74	2.21	1.53	0.932			J
			29:18	1.63	16.67	10.33	6.34	0.938			J
			29:44	1.51	76.61	46.03	30.58	0.952			
			29:53	1.48	323.33	193.08	130.25	0.957			
			30:04	1.50	145.61	87.40	58.21	0.963			
A			30:20	1.59	11.81	7.25	4.56	0.971			J
N			30:27	1.50	189.41	113.53	75.88	0.997			
AN			30:34	1.50	5.50	3.30	2.20	1.001	12378-PeCDF	AN	J
			30:42	1.35	2.92	1.68	1.24	0.984			J
			30:51	1.36	11.12	6.40	4.72	0.988			J
			31:09	1.50	4.10	2.46	1.64	0.997			J
			31:15	1.47	16.85	10.02	6.83	1.001	23478-PeCDF	AN	J
			31:26	1.41	25.31	14.81	10.50	1.006			
	X		31:34	1.45	6.11	3.62	2.49	1.011			J
			31:50	1.55	10.45	6.35	4.10	1.019			J
	X		31:56	RO	1.03	7.39	3.75	3.64	1.022		
			32:04	1.50	60.77	36.51	24.26	1.027			
			32:20	1.50	1.40	0.84	0.56	1.035			J
	DC	WH	32:40	RO	0.98	2.47		1.046			
340-342			21 Peaks			1,019.78					

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.

		1.32-1.78			0.807-1.127		
13C12-PeCDF							
352-354	DC NL	Height	0.15	0.06	0.09		
		28:40 RO	0.66	0.27	0.41	0.918	
		29:52 RO	0.26	0.93	3.59	0.956	
		30:11 RO	1.02	4.73	2.39	2.34	0.966
		30:33	1.50	588.15	353.05	235.10	1.000 13C12-PeCDF 123 IS2
		Height	165.77	98.77	67.00		
	DC SN	31:03 RO	2.92	0.94		0.994	
		31:14	1.50	613.33	367.88	245.45	1.000 13C12-PeCDF 234 IS3
		Height	180.54	107.93	72.61		
		31:34	1.54	4.40	2.67	1.73	1.011
		31:41 RO	1.30	2.00	1.13	0.87	1.014
		31:50 RO	0.77	7.27	3.17	4.10	1.019
		31:57 RO	0.98	2.28	1.13	1.15	1.023
		32:10 RO	1.02	11.11	5.60	5.51	1.030
352-354	10 Peaks		1,238.47				

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

		1.32-1.78			0.940-1.021		
PeCDD							
356-358	DC NL	Height	0.14	0.07	0.07		
D	D SN	30:39 RO	0.79	2.65		0.971	
D	D SN	30:51 RO	3.22	0.76		0.977	
D	D SN	31:04 RO	2.03	2.09		0.984	
		31:34	1.34	2.50	1.43	1.07	1.000 12378-PeCDD AN J
		31:43 RO	0.13	7.34	0.82	6.52	1.005
		31:51	1.45	6.24	3.69	2.55	1.009
		31:56 RO	1.07	2.24	1.16	1.08	1.012
A		32:08 RO	0.97	9.28	4.56	4.72	1.018
	DC WH	32:17 RO	0.57	1.52		1.023	
	DC WH	32:24 RO	0.55	0.85		1.026	
356-358	5 Peaks		27.60				

		1.32-1.78			0.735-1.052		
13C12-PeCDD							
368-370	DC NL	Height	0.14	0.08	0.06		
		30:32 RO	1.96	1.33	0.88	0.45	0.967
		30:39	1.36	2.01	1.16	0.85	0.971
		30:50 RO	1.15	0.86	0.46	0.40	0.977
		31:23 RO	0.54	1.60	0.56	1.04	0.994
		31:34	1.48	420.21	250.93	169.28	1.000 13C12-PeCDD 123 IS4
		Height	123.89	74.41	49.48		
		31:57 RO	0.85	1.83	0.84	0.99	1.012
368-370	6 Peaks		427.84				

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

		1.05-1.43			0.929-1.007		
HxCDF							
374-376	DC NL	Height	0.33	0.18	0.15		
D	D WL	32:52	1.29	3.32		0.930	
		33:01	1.22	58.67	32.25	26.42	0.934
		33:08	1.32	109.71	62.33	47.38	0.938
		33:16	1.30	36.16	20.46	15.70	0.942

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.

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
					33:24		1.27	13.70	7.67	6.03	0.945			J
					33:35		1.28	189.91	106.72	83.19	0.950			
					33:47		1.20	10.25	5.59	4.66	0.956			J
NM					33:54		1.24	118.80	65.80	53.00	0.999			
AN					33:58		1.27	42.70	23.90	18.80	1.000	123478-HxCDF	AN	
					34:03		1.35	19.50	11.21	8.29	1.000	123678-HxCDF	AN	
					34:21		1.35	2.82	1.62	1.20	0.972			J
					34:33		1.25	17.37	9.64	7.73	1.000	234678-HxCDF	AN	J
	DC	SN			35:04	RO	0.47	1.10			0.992			
		X			35:10	RO	0.58	1.58	0.58	1.00	0.995			
					35:16	RO	1.85	3.90	2.53	1.37	0.998			
					35:24		1.12	6.03	3.19	2.84	1.002			J
	DC	WH			35:53	RO	2.00	0.51			1.016			
374-376					14 Peaks			631.10						

Compound	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						0.879-1.105			
384-386	DC	NL			Height			0.36	0.16	0.20				
					33:00	RO	0.36	2.22	0.59	1.63	0.934			
					33:08	RO	0.39	2.66	0.74	1.92	0.938			
					33:57		0.51	634.77	214.56	420.21	1.000	13C12-HxCDF	478 IS5	
					Height			202.56	67.75	134.81				
					34:03		0.51	676.88	230.08	446.80	1.000	13C12-HxCDF	678 IS6	
					Height			205.44	69.25	136.19				
					34:16	RO	0.91	1.51	0.72	0.79	0.970			
					34:21		0.52	0.76	0.26	0.50	0.972			
	DC	SN			34:24		0.50	1.99			0.974			
					34:33		0.52	663.90	226.12	437.78	1.000	13C12-HxCDF	234 IS7	
					Height			196.31	68.14	128.17				
					34:46	RO	0.82	3.11	1.40	1.71	0.984			
	DC	SN			35:05	RO	1.43	0.68			0.993			
					35:20		0.52	552.51	188.15	364.36	1.000	13C12-HxCDF	789 IS8	
					Height			148.61	51.07	97.54				
	DC	SN			35:47	RO	0.25	0.35			1.013			
	DC	SN			35:53	RO	1.11	0.59			1.016			
384-386					9 Peaks			2,538.32						

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

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
HxCDD					1.05-1.43						0.959-1.013			
390-392	DC	NL			Height			0.38	0.14	0.24				
					33:29		1.06	10.43	5.36	5.07	0.964			J
	DC	SN			33:56	RO	3.88	2.10			0.977			
					34:08	RO	0.96	28.23	13.82	14.41	0.983			
	DC	SN			34:18	RO	1.00	0.78			0.988			
	DC	SN			34:25	RO	0.78	0.16			0.991			
					34:46		1.37	7.04	4.07	2.97	1.001	123678-HxCDD	AN	J
					35:04		1.21	3.67	2.01	1.66	1.010	123789-HxCDD	AN	J
	DC	WH			35:15		1.13	5.46			1.015			
	DC	WH			35:34	RO	0.70	4.08			1.024			
390-392					4 Peaks			49.37						

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.

		1.05-1.43			0.983-1.041		
13C12-HxCDD							
402-404	DC NL	Height	0.32	0.19	0.13		
		34:06	1.18	1.83	0.99	0.84	0.984
		34:39	1.19	428.97	233.00	195.97	1.000 13C12-HxCDD 478 IS9
		Height	129.13	70.18	58.95		
		34:44	1.23	479.66	264.45	215.21	1.000 13C12-HxCDD 678 IS10
		Height	144.41	79.19	65.22		
		35:04	1.22	548.30	300.82	247.48	1.012 13C12-HxCDD 789 RS2
		35:16 RO	0.21	6.92	1.19	5.73	1.018
		35:20 RO	0.30	4.06	0.93	3.13	1.020
	DC SN	35:26 RO	0.68	0.89		1.023	
	DC SN	35:33 RO	1.58	0.93		1.026	
402-404		6 Peaks		1,469.74			

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

		0.88-1.20			0.955-1.005		
HpCDF							
408-410	DC NL	Height	0.17	0.08	0.09		
	DC WL	36:50 RO	1.68	1.66		0.954	
		37:02	1.07	339.77	175.68	164.09	1.000 1234678-HpCDF AN
		37:18	1.14	3.15	1.68	1.47	0.966
		37:27	1.09	142.40	74.29	68.11	0.970
		38:37 RO	1.22	6.96	3.82	3.14	1.000 1234789-HpCDF AN
408-410		4 Peaks		492.28			

		0.37-0.51			0.856-1.141		
13C12-HpCDF							
418-420	DC NL	Height	0.16	0.07	0.09		
		37:01	0.44	436.43	133.29	303.14	1.000 13C12-HpCDF 678 IS11
		Height	116.38	35.39	80.99		
		38:36	0.44	294.02	89.79	204.23	1.000 13C12-HpCDF 789 IS12
		Height	68.06	20.97	47.09		
		38:54 RO	0.66	1.53	0.61	0.92	1.008
	DC SN	39:02 RO	0.36	1.06		1.011	
418-420		3 Peaks		731.98			

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

		0.88-1.20			0.976-1.005		
HpCDD							
424-426	DC NL	Height	0.21	0.11	0.10		
		37:18	1.04	28.83	14.73	14.10	0.979
		38:05	1.07	28.20	14.59	13.61	1.000 1234678-HpCDD AN
424-426		2 Peaks		57.03			

		0.88-1.20			0.868-1.078		
13C12-HpCDD							
436-438	DC NL	Height	0.61	0.40	0.21		
	DC SN	37:50 RO	15.25	3.90		0.993	
		38:05	1.02	377.63	191.03	186.60	1.000 13C12-HpCDD 678 IS13
		Height	92.54	46.58	45.96		
436-438		1 Peak		377.63			

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

		0.76-1.02			0.952-1.048		
OCDF							
442-444	DC NL		Height	0.16	0.08	0.08	
	DC WL	36:42	0.84	2.74		0.876	
	DC WL	37:09	RO 0.53	0.26		0.887	
	DC WL	39:38	RO 0.65	0.38		0.946	
	DC WL	39:46	RO 0.44	0.26		0.949	
	DC WL	39:52	RO 0.41	0.24		0.952	
	DC SN	40:08	1.00	0.16		0.958	
	DC SN	41:43	RO 1.43	0.17		0.996	
	DC SN	41:50	RO 0.31	0.17		0.999	
	DC SN	41:53	RO 1.14	0.45		1.000	
		42:06	0.90	58.86	27.87	30.99	1.005 OCDF AN
		42:18	RO 0.36	1.02	0.27	0.75	1.010
	DC SN	42:27	RO 0.52	0.32		1.014	
	DC SN	42:32	RO 1.15	0.28		1.016	
	DC WH	44:16	RO 1.62	0.34		1.057	
	DC WH	44:29	RO 0.67	0.25		1.062	
	DC WH	44:38	RO 0.24	0.26		1.066	
442-444		2 Peaks		59.88			

		0.76-1.02			0.952-1.048		
OCDD							
458-460	DC NL		Height	0.12	0.06	0.06	
		41:54	0.84	497.05	226.96	270.09	1.000 OCDD AN
		42:21	0.88	1.22	0.57	0.65	1.011
458-460		2 Peaks		498.27			

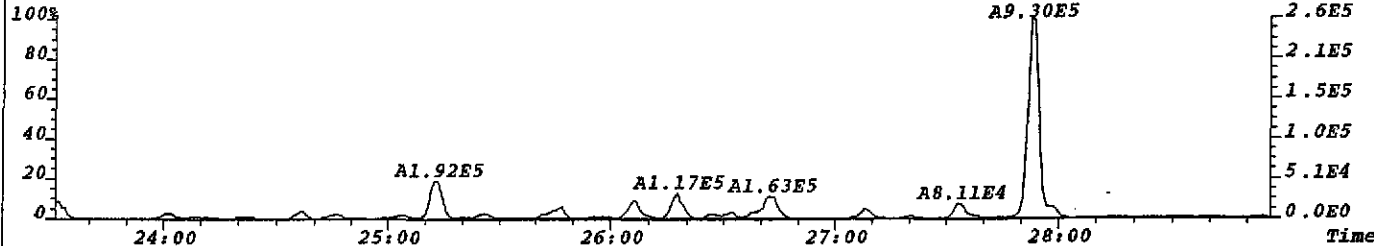
		0.76-1.02			0.996-1.004		
13C12-OCDD							
470-472	DC NL		Height	0.30	0.20	0.10	
		41:53	0.84	553.18	252.68	300.50	1.000 13C12-OCDD IS14
			Height	110.27	51.13	59.14	
470-472		1 Peak		553.18			

Column Description..... "Why" Code Description..... QC Log Desc.....

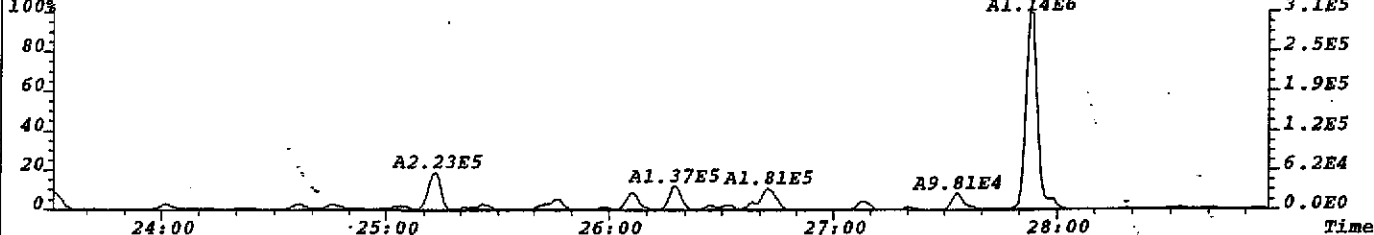
M_Z -Nominal Ion Mass(es) WL-Below Retention Time Window A-Peak Added
 ..RT. -Retention Time (mm:ss) WH-Above Retention Time Window K-Peak Kept
 Rat.1 -Ratio of M/M+2 Ions SN-Below Signal to Noise Level D-Peak Deleted
 OK -RO=Ratio Outside Limits <M-Below Method Detection Limit T-Time Changed
 Rel.RT-Relative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

*** End of Report ***

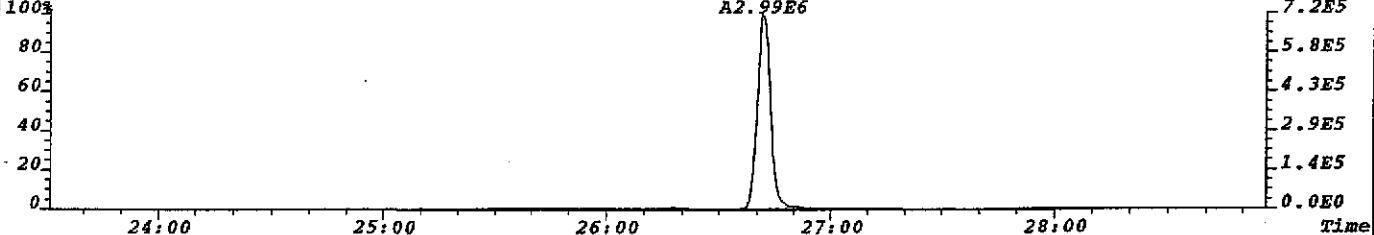
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 303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,484.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



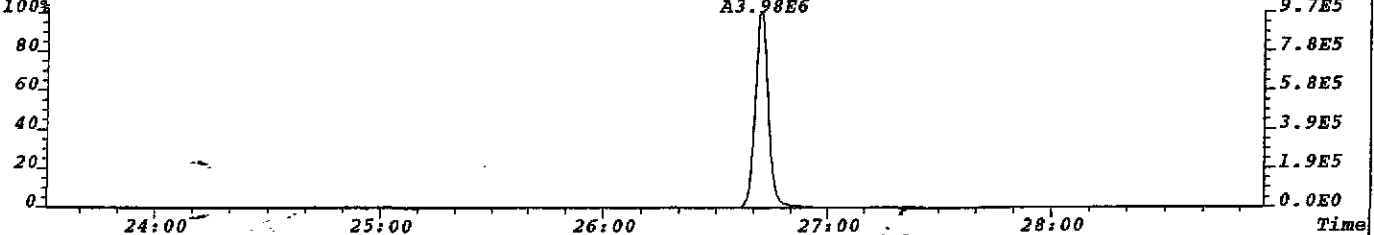
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:92
 305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,368.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



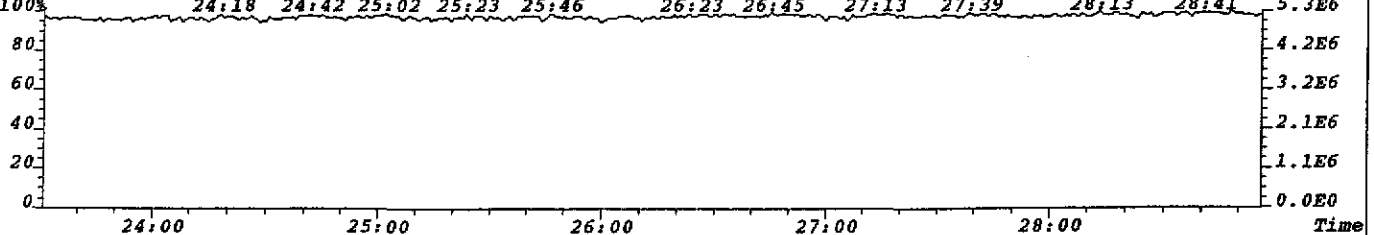
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:109
 315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,436.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



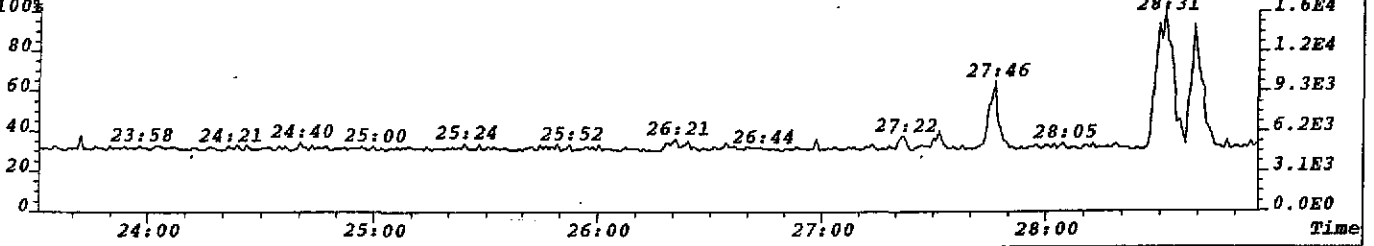
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:115
 317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,460.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



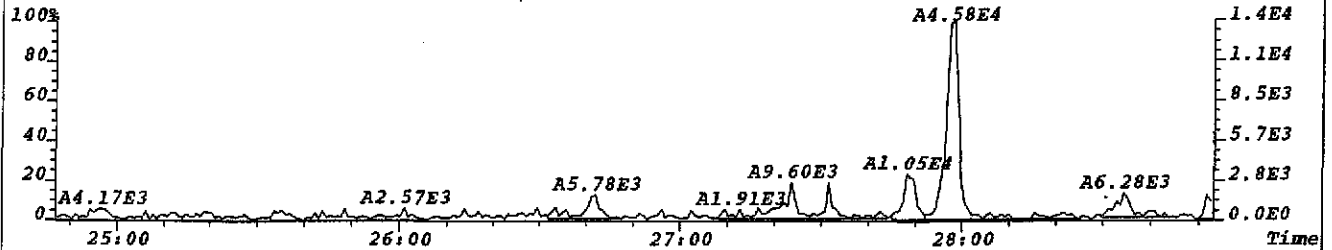
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T
 330.9792 F:2 Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



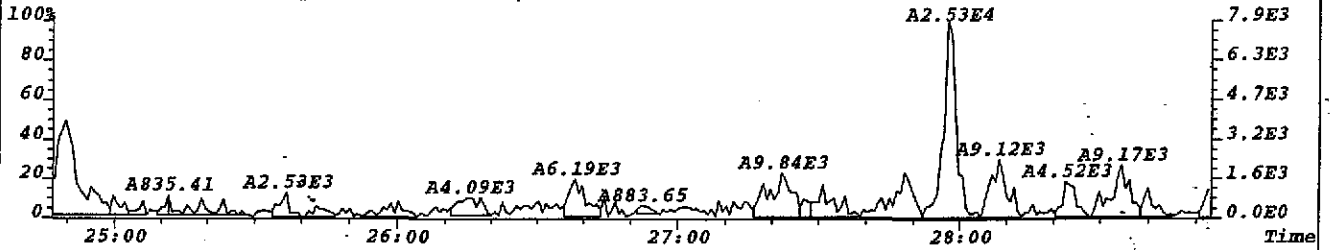
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T
 375.8364 F:2 Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



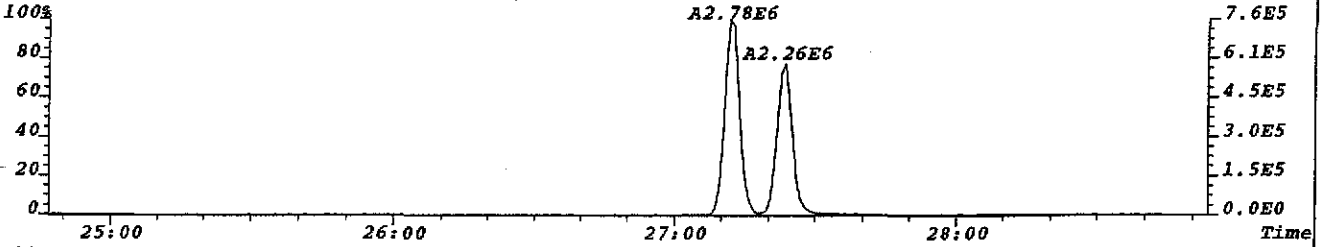
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:91
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



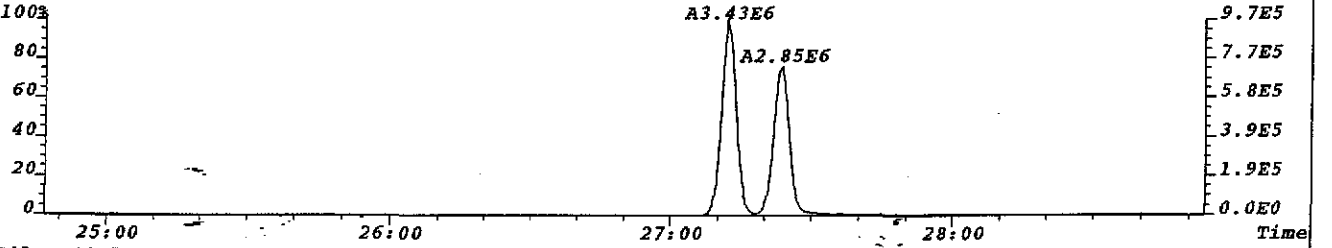
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:91
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



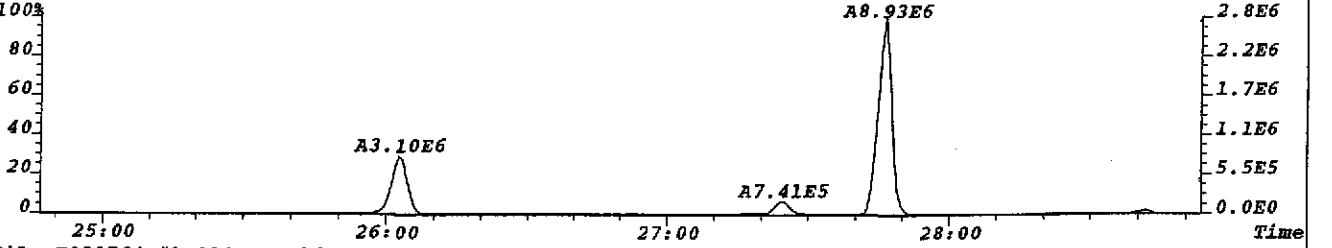
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:243
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,972.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



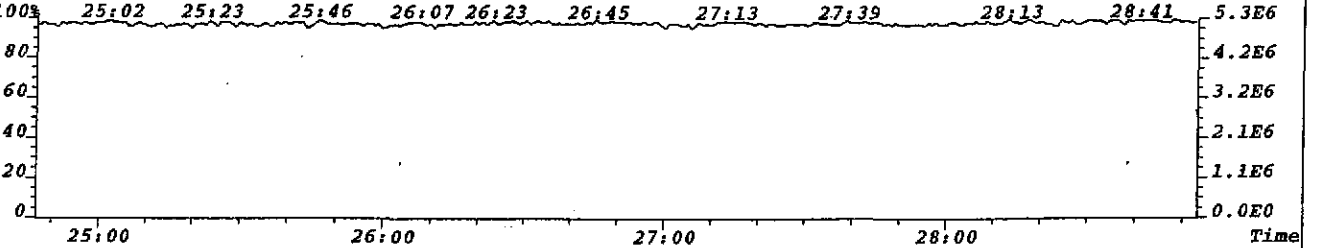
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:92
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,368.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



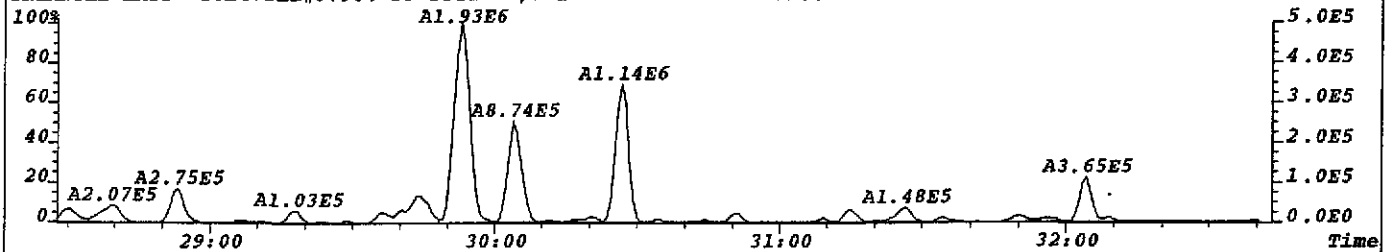
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:124
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,496.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



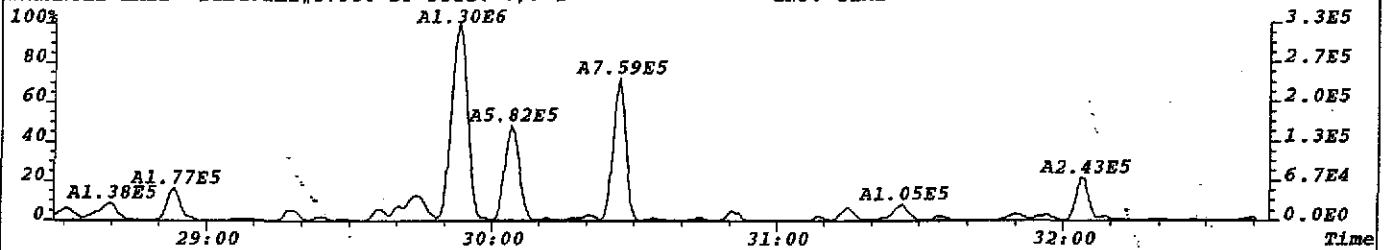
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



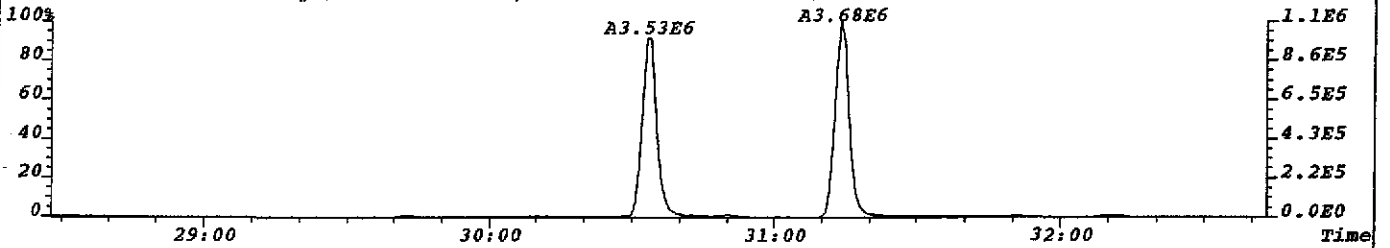
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:63
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,252.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



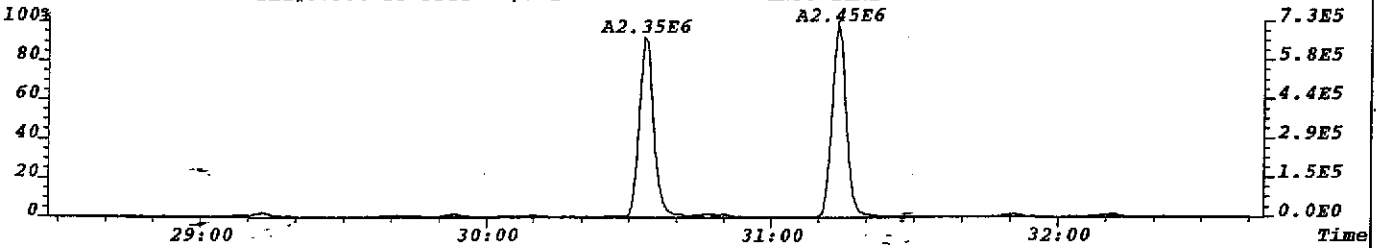
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:102
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,408.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



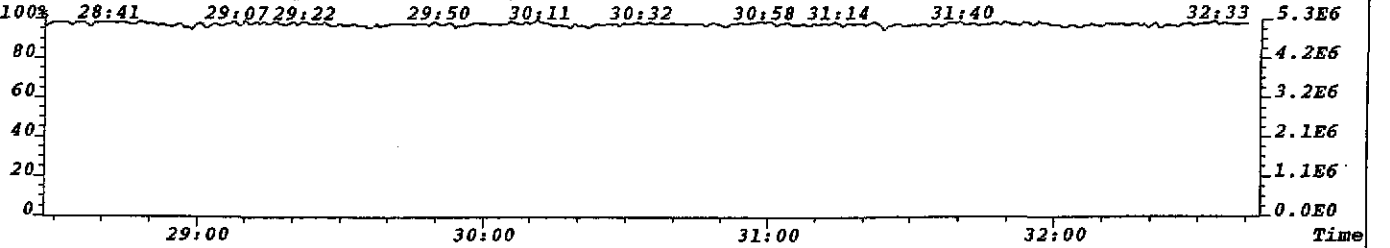
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:73
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,292.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



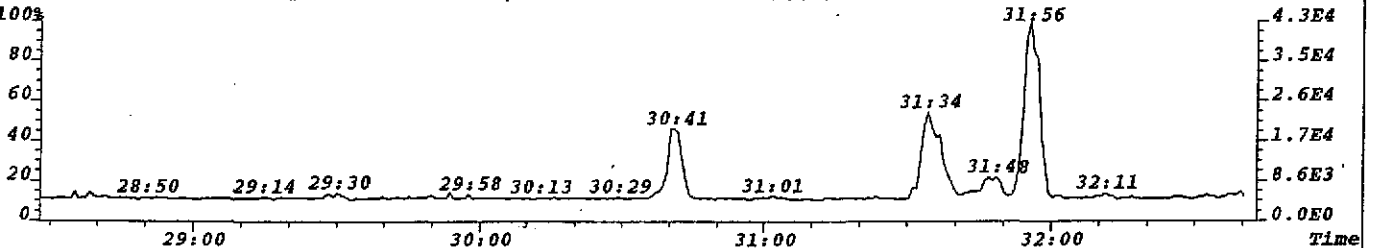
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:114
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,456.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



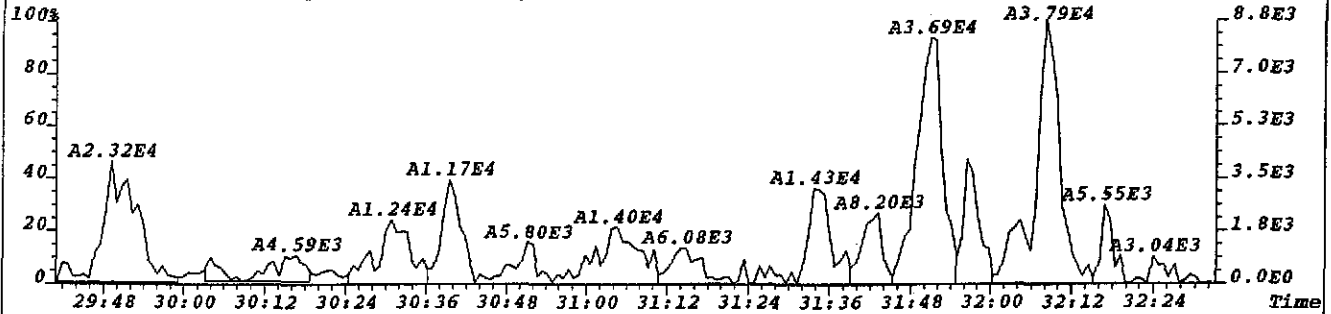
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



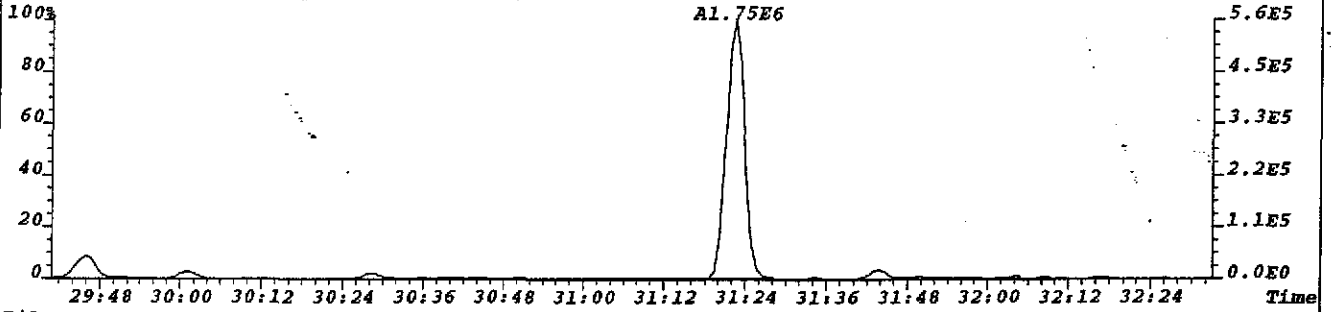
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



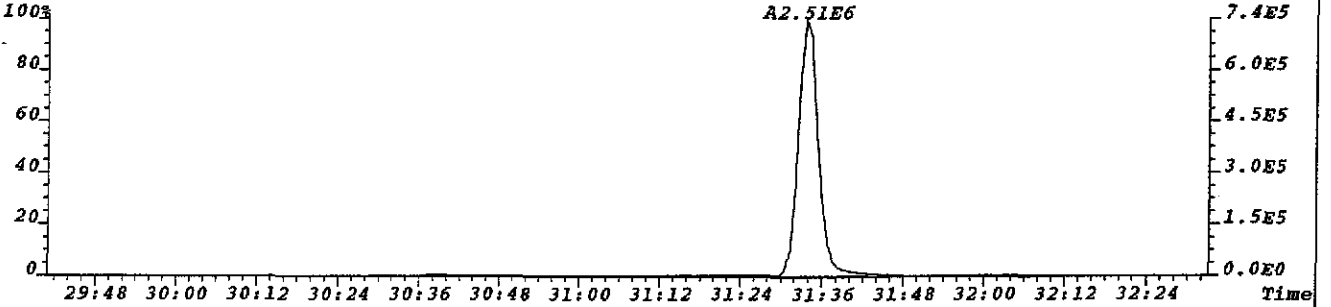
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:93
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,372.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



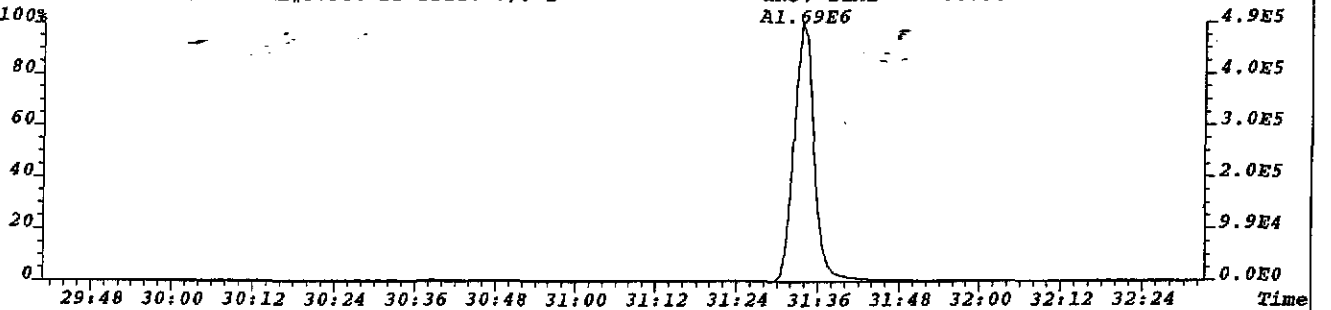
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:82
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



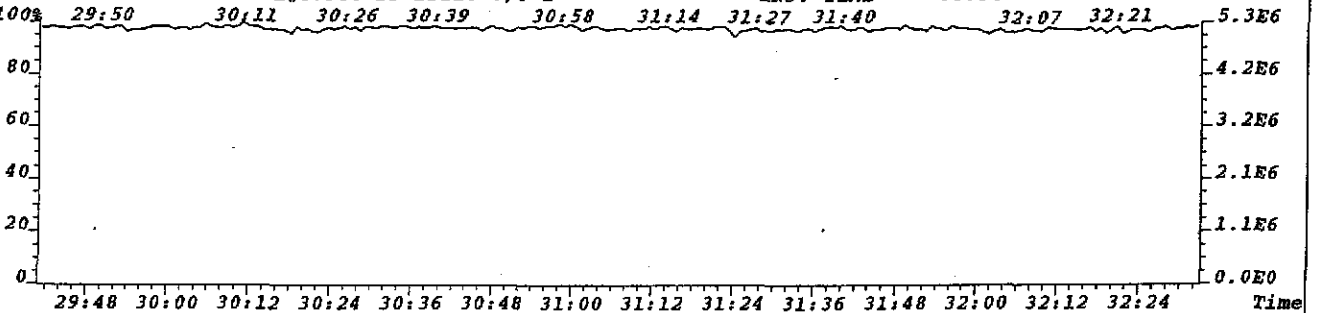
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:97
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



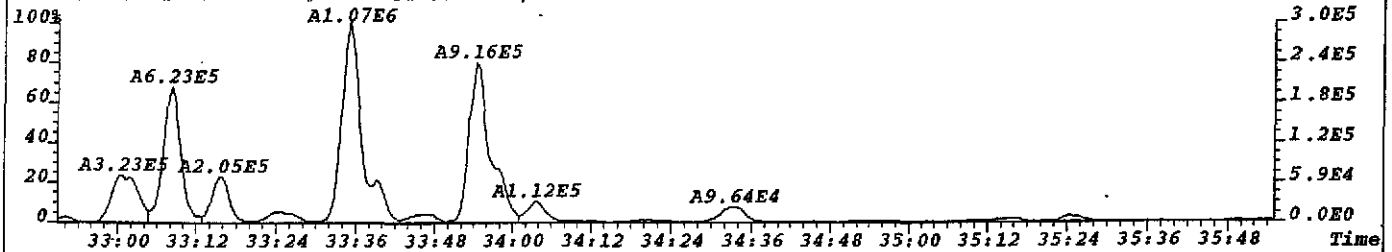
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:75
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,300.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



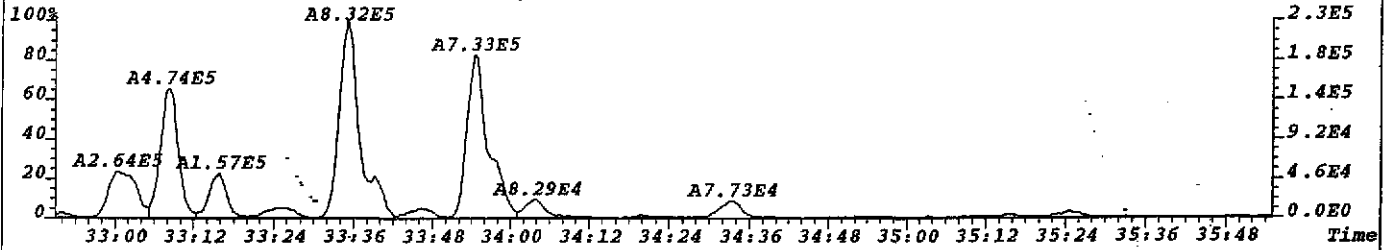
File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



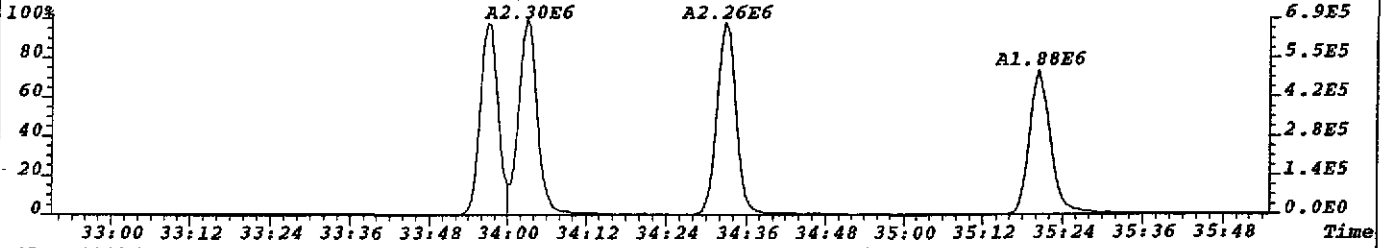
File:T023764 #1-386 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:228
 373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,912.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



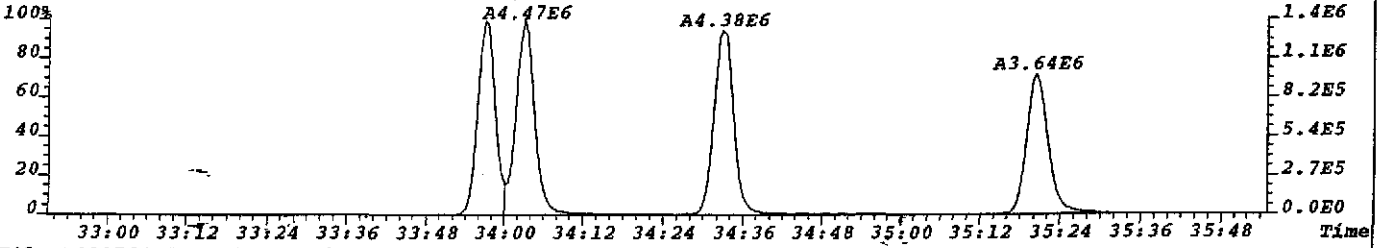
File:T023764 #1-386 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:189
 375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,756.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



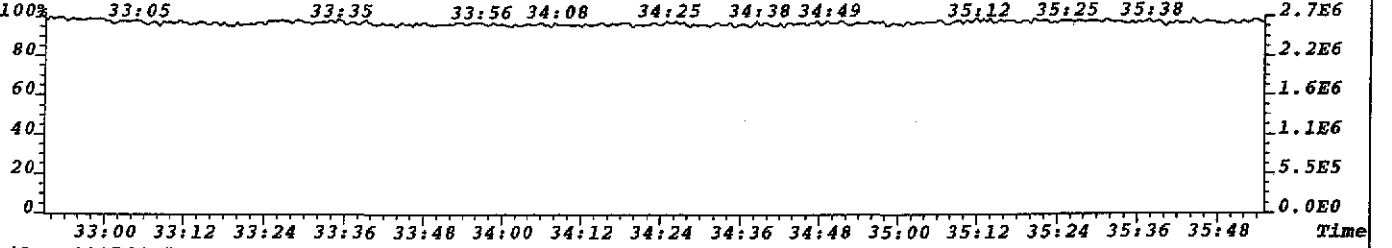
File:T023764 #1-386 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:204
 383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,816.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



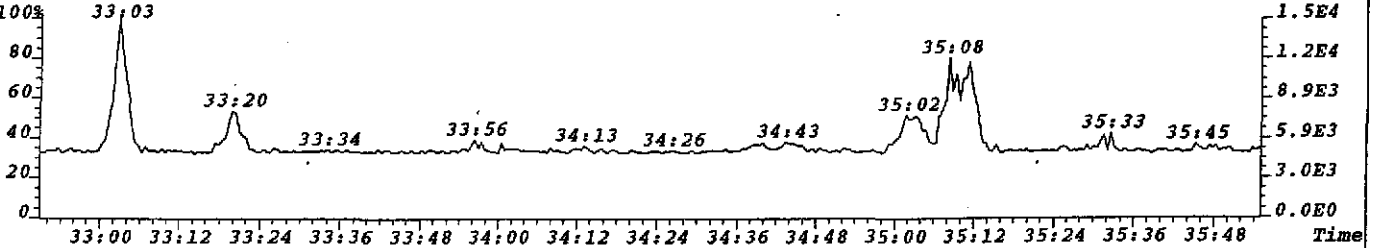
File:T023764 #1-386 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:244
 385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,976.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



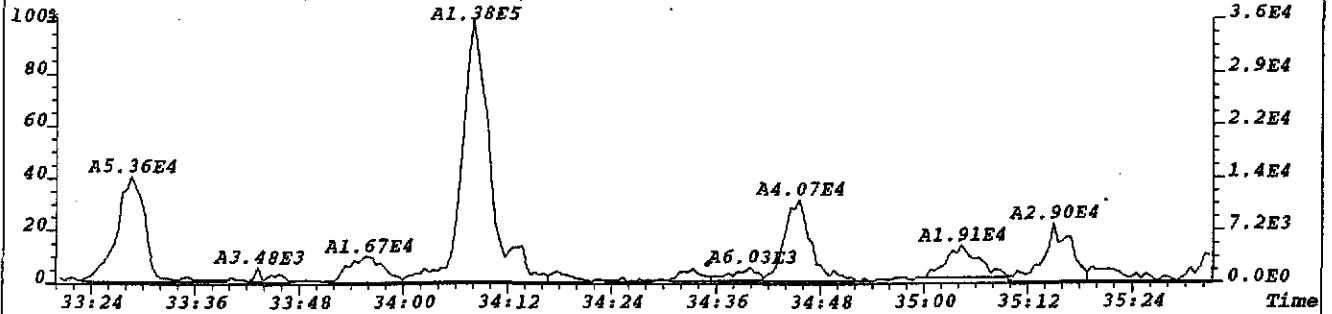
File:T023764 #1-386 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T
 392.9760 F:3 Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



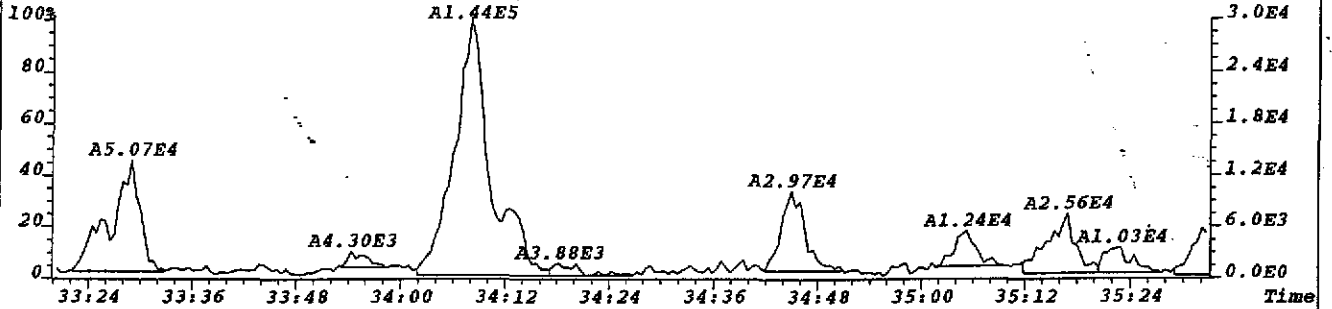
File:T023764 #1-386 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T
 445.7555 F:3 Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



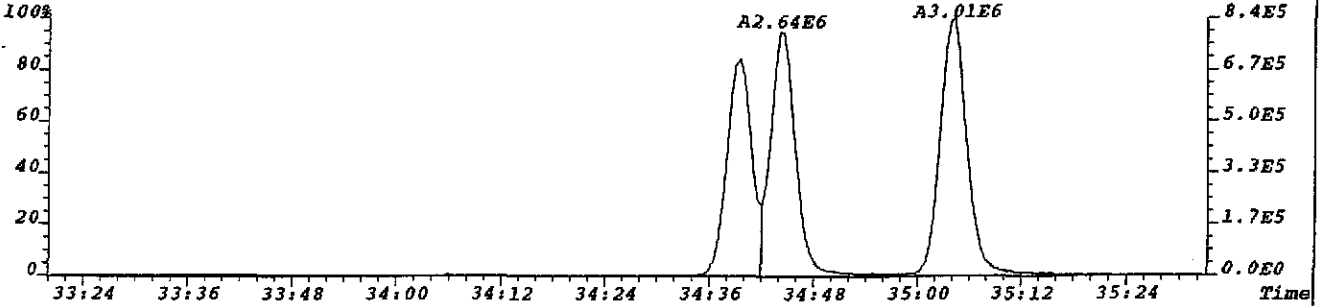
File:T023764 #1-386 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:181
389.8156 F:3 BSub(256,30,-3.0) PKD(7,5,3,0.05%,724.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



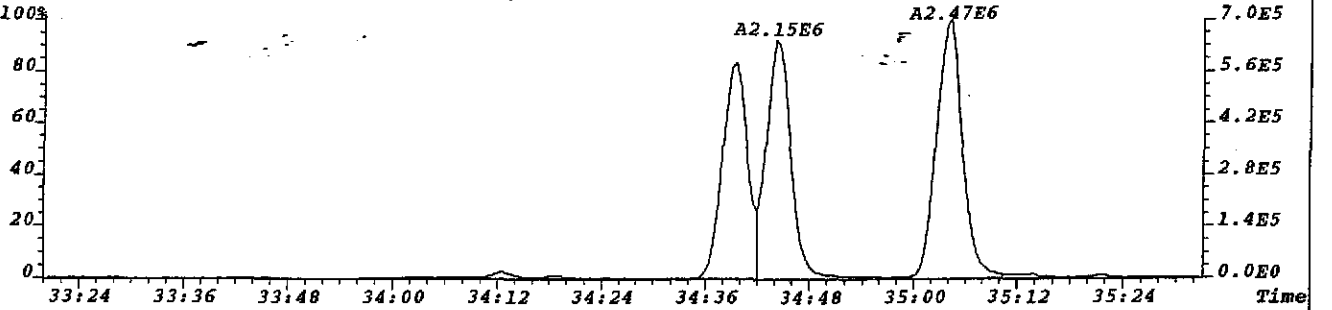
File:T023764 #1-386 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:304
391.8127 F:3 BSub(256,30,-3.0) PKD(7,5,3,0.05%,1216.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



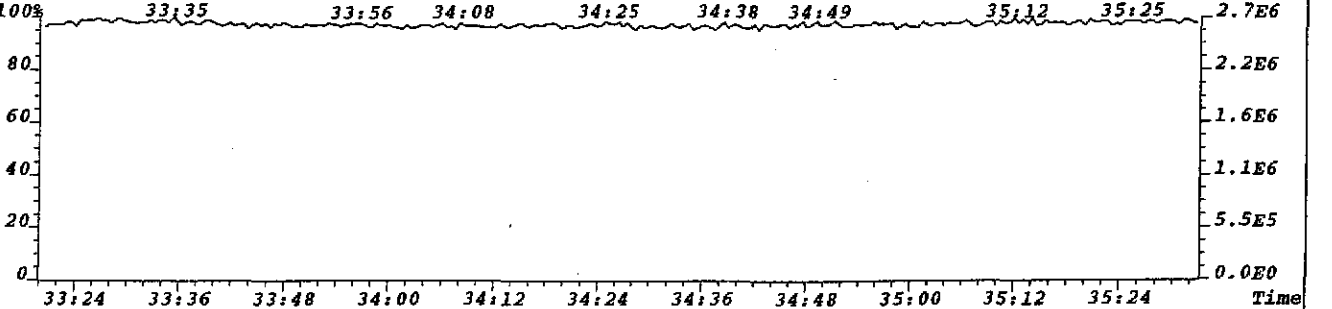
File:T023764 #1-386 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:237
401.8558 F:3 BSub(256,30,-3.0) PKD(7,5,3,0.05%,948.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



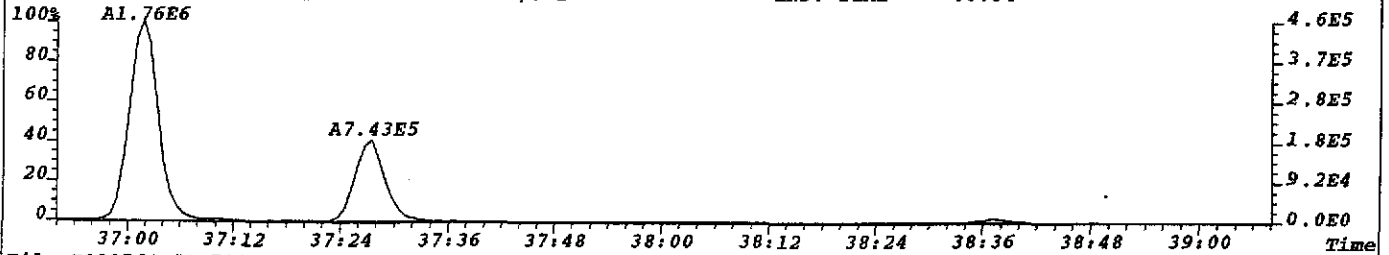
File:T023764 #1-386 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:165
403.8529 F:3 BSub(256,30,-3.0) PKD(7,5,3,0.05%,660.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



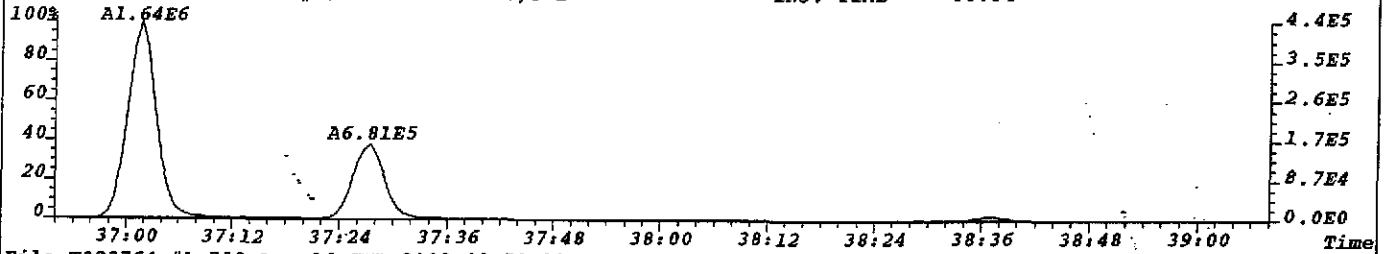
File:T023764 #1-386 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



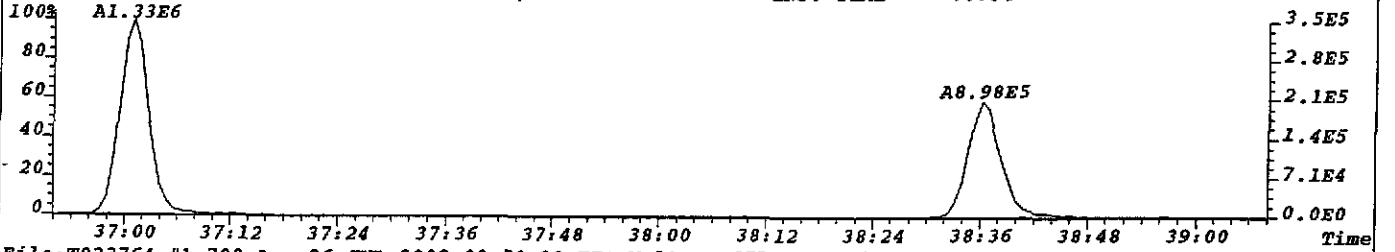
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:97
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



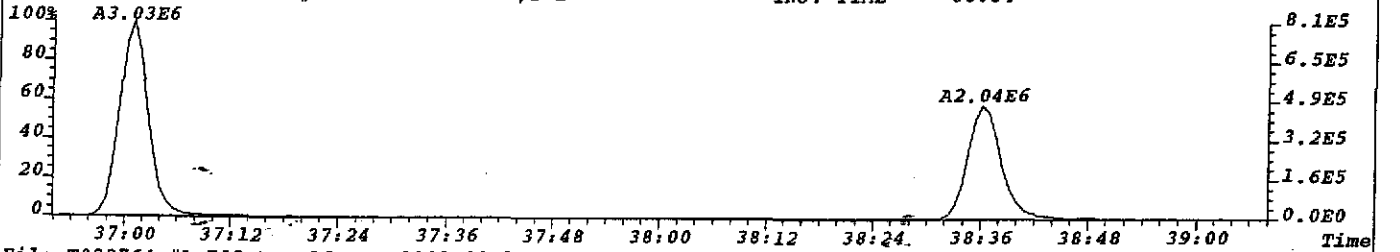
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:113
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,452.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



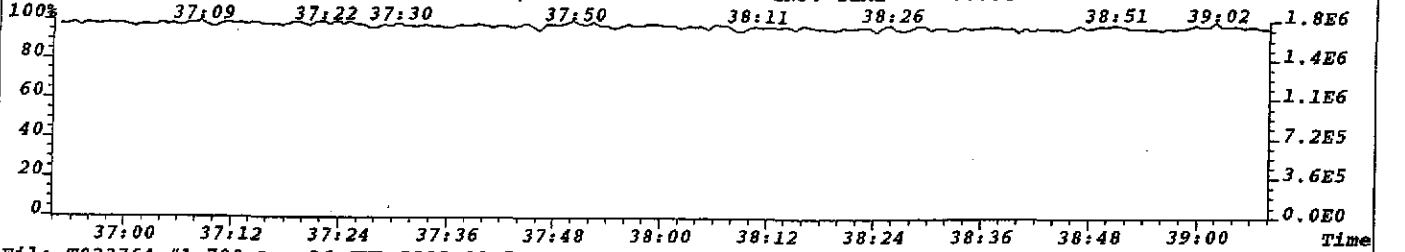
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:87
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,348.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



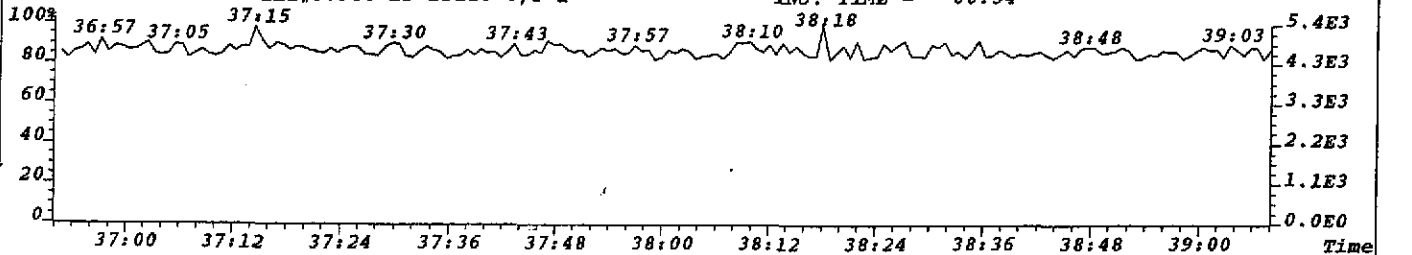
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:111
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,444.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



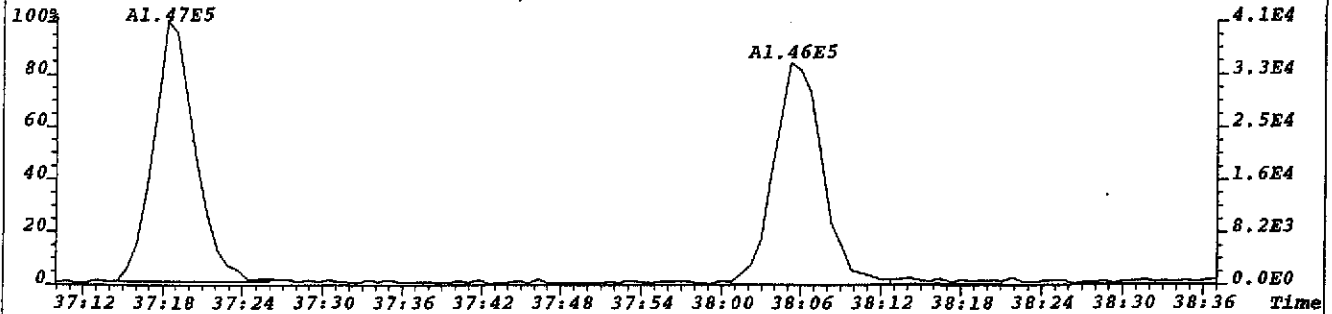
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



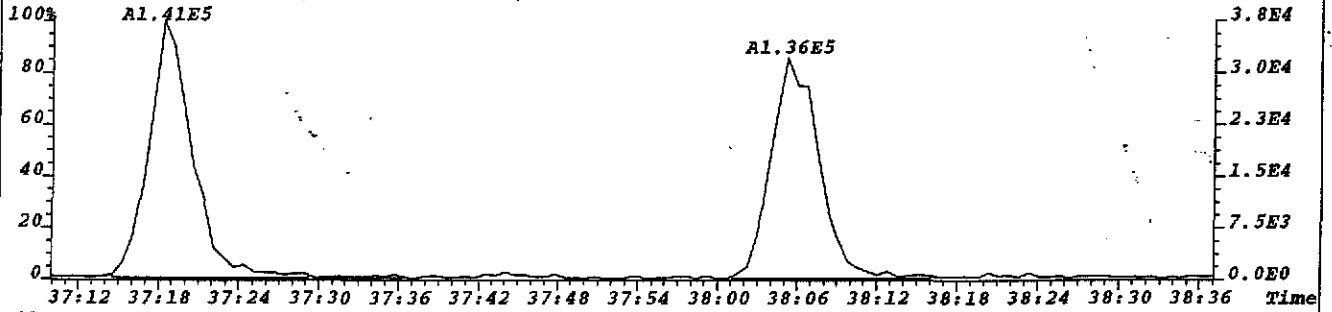
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



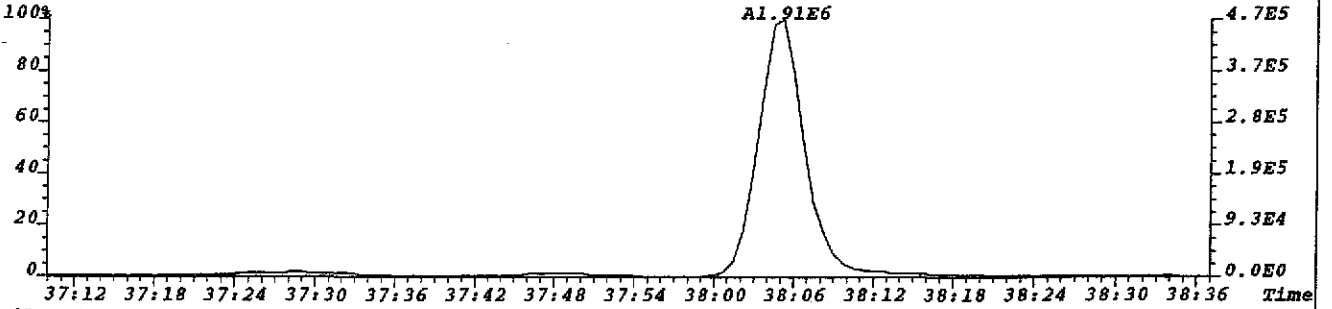
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:134
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,536.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



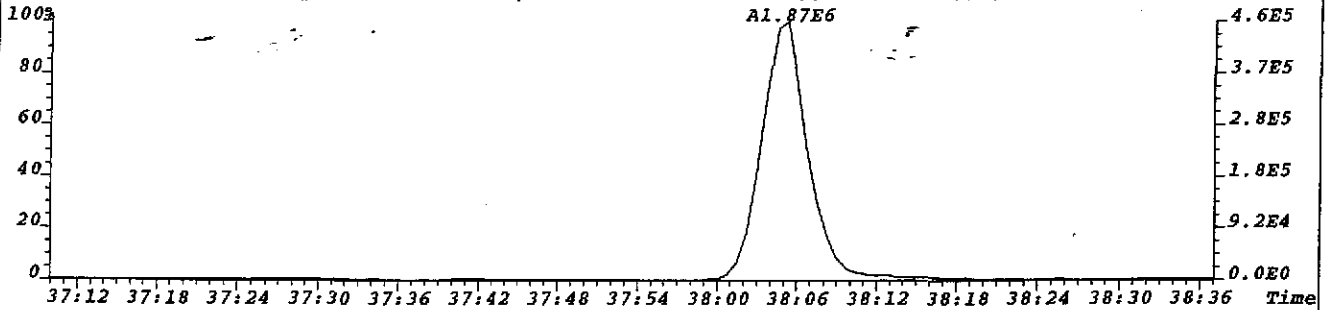
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:125
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,500.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



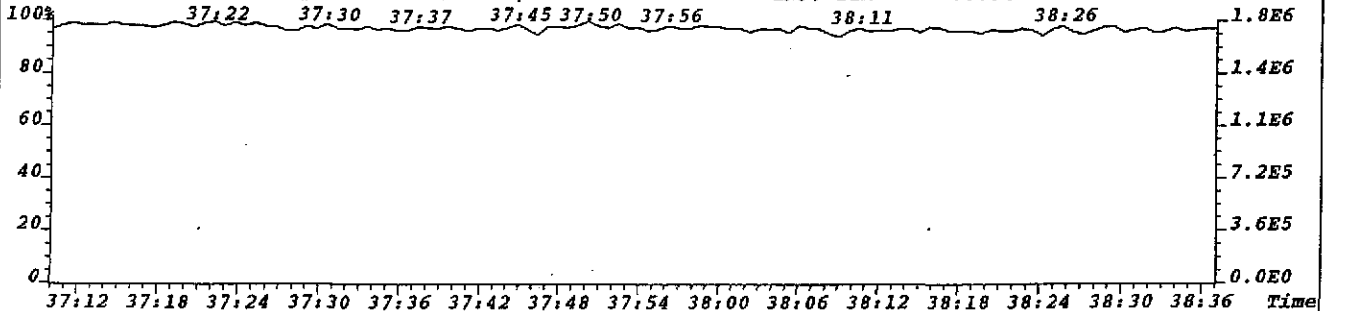
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:504
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2016.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



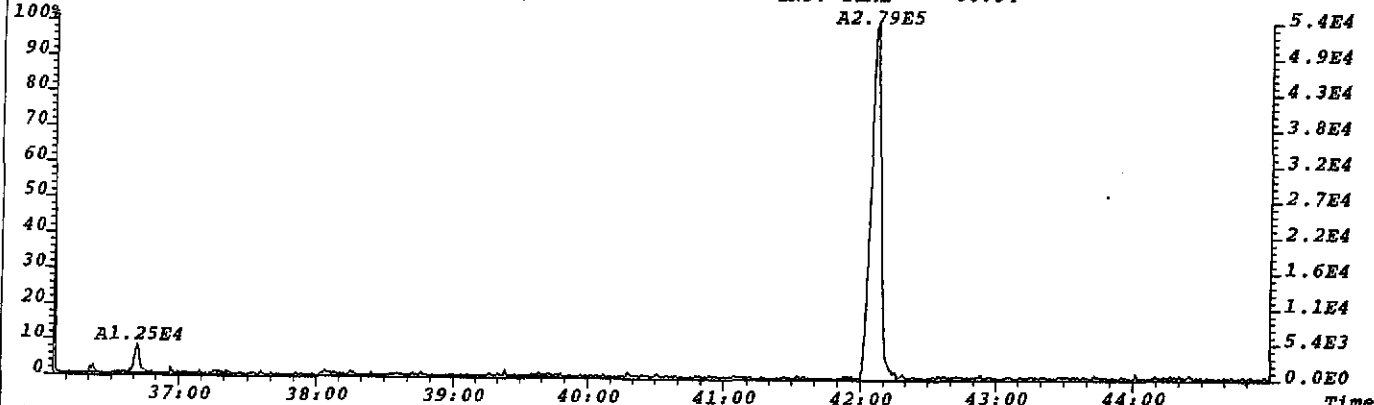
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:257
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1028.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



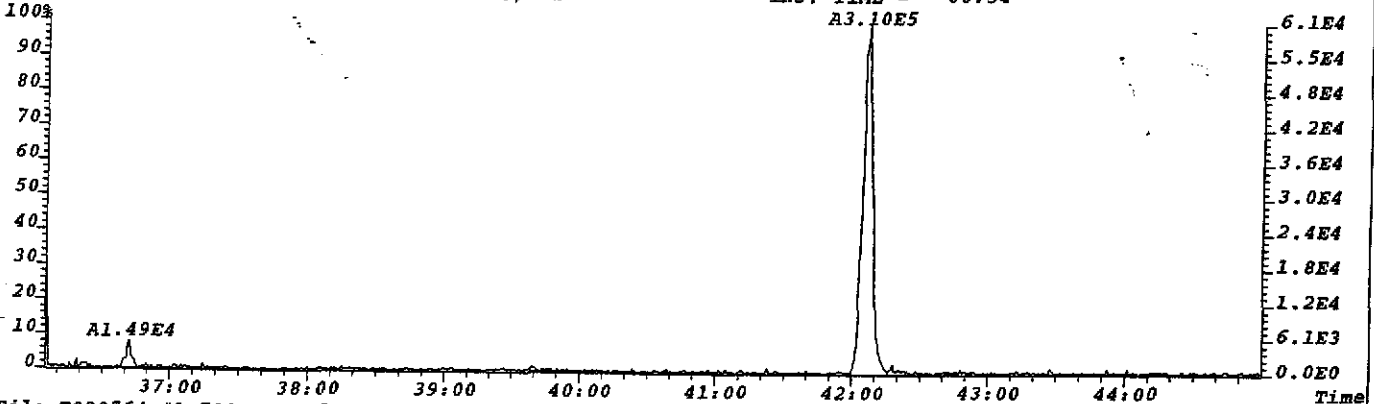
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



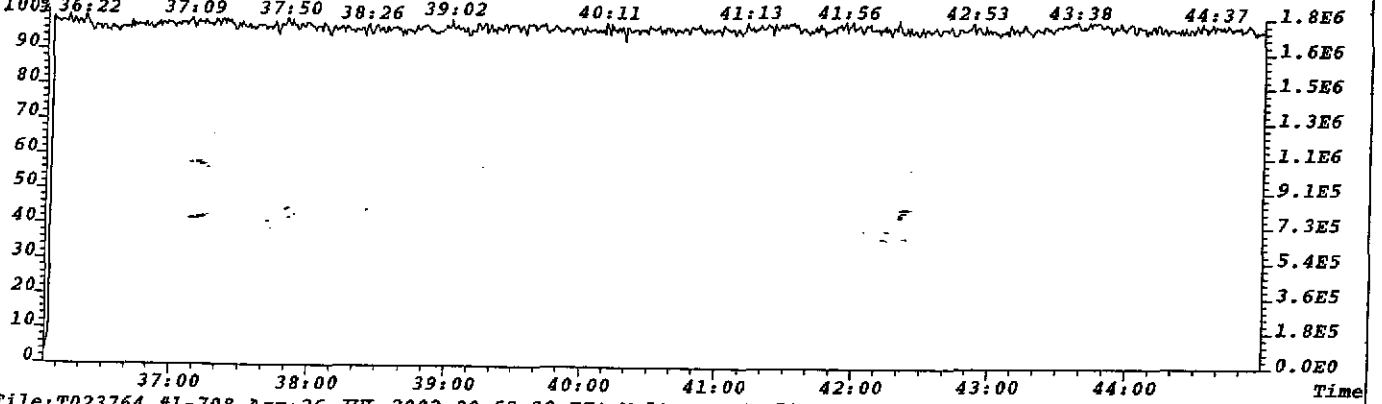
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:97
441.7428 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



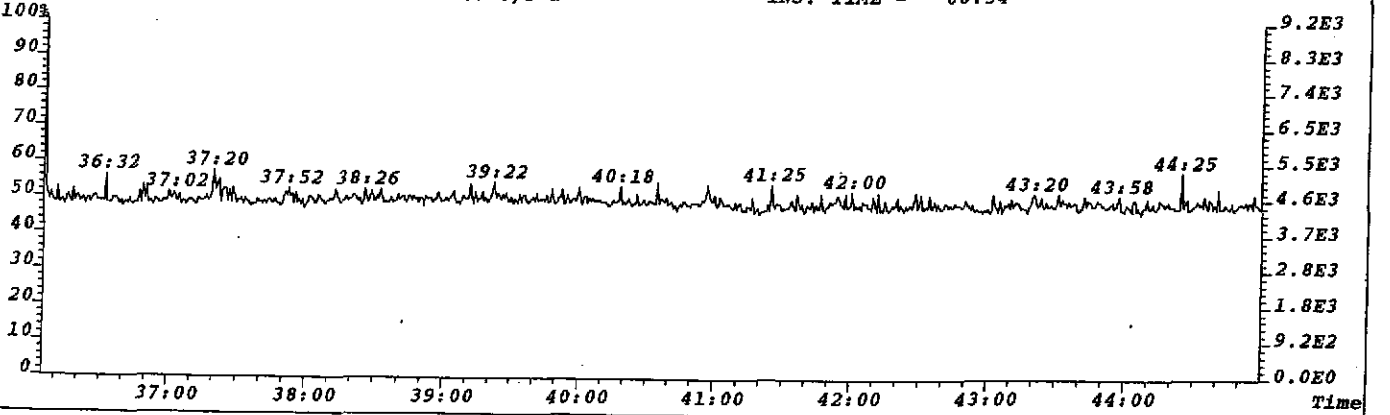
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:94
443.7399 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,376.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



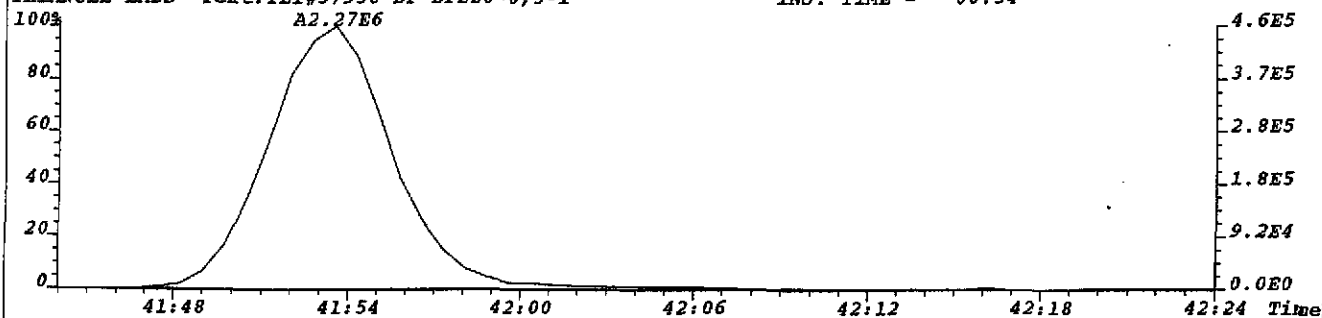
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



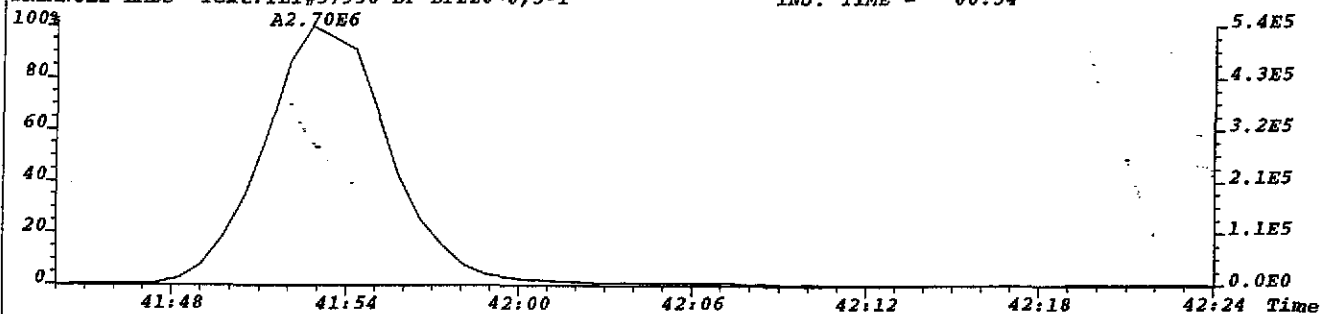
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



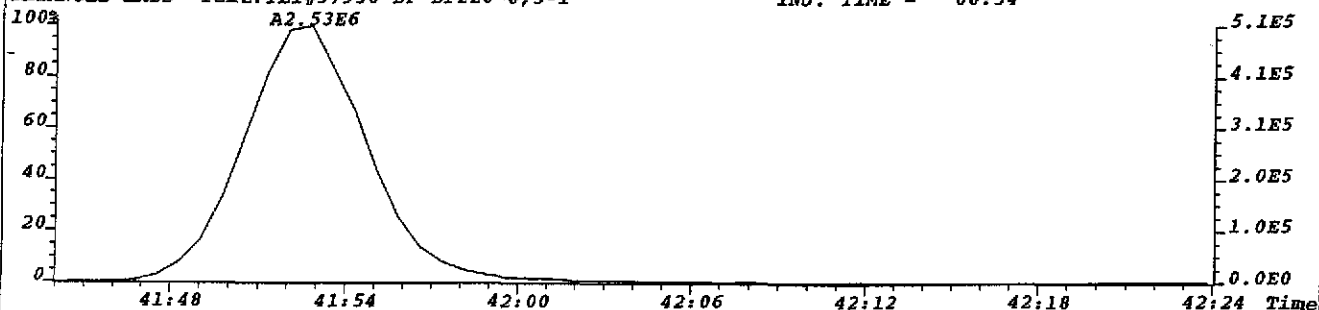
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:72
457.7377 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,288.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



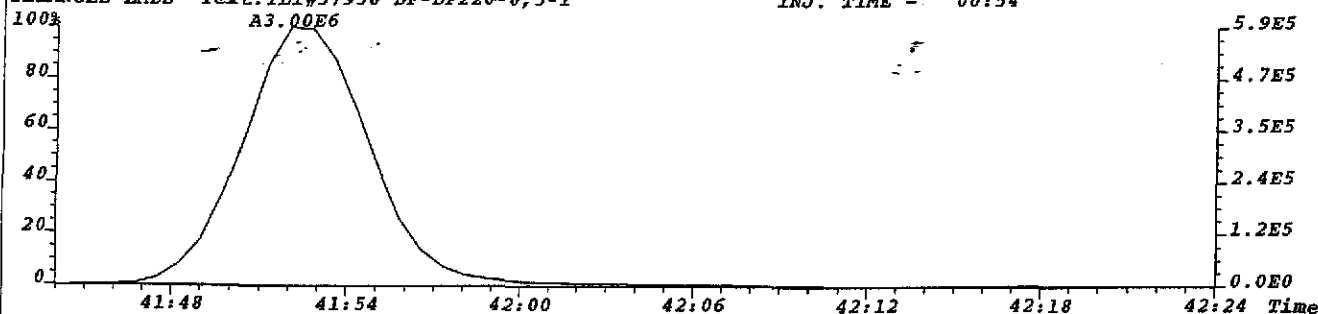
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:79
459.7348 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



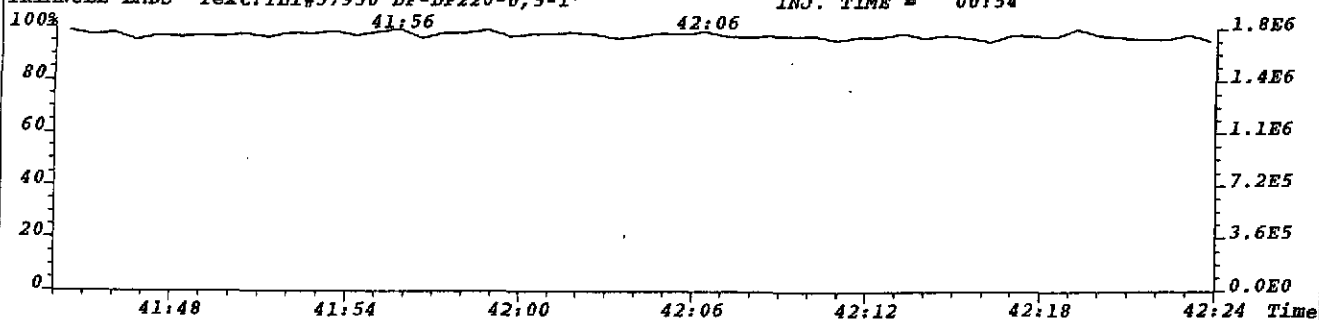
File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:253
469.7779 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,1012.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54

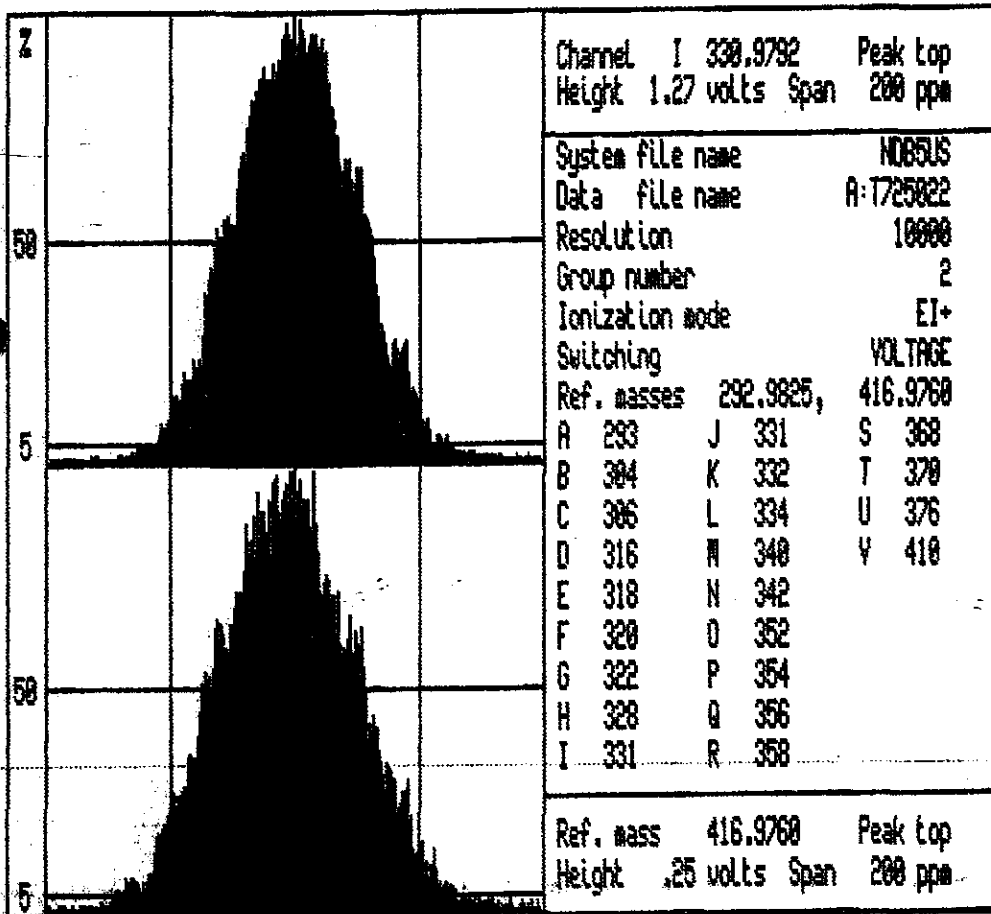


File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T Noise:124
471.7750 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,496.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54

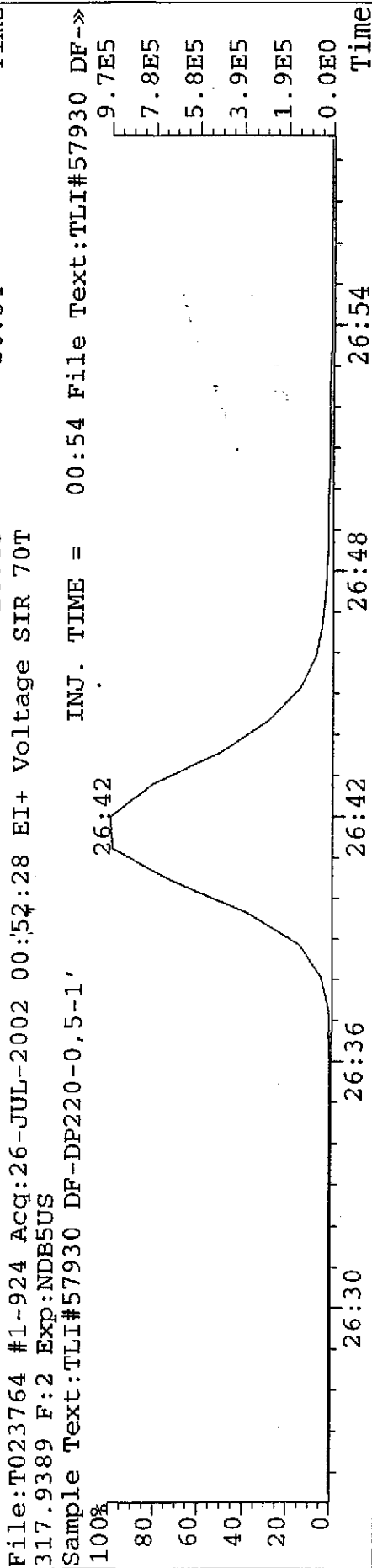
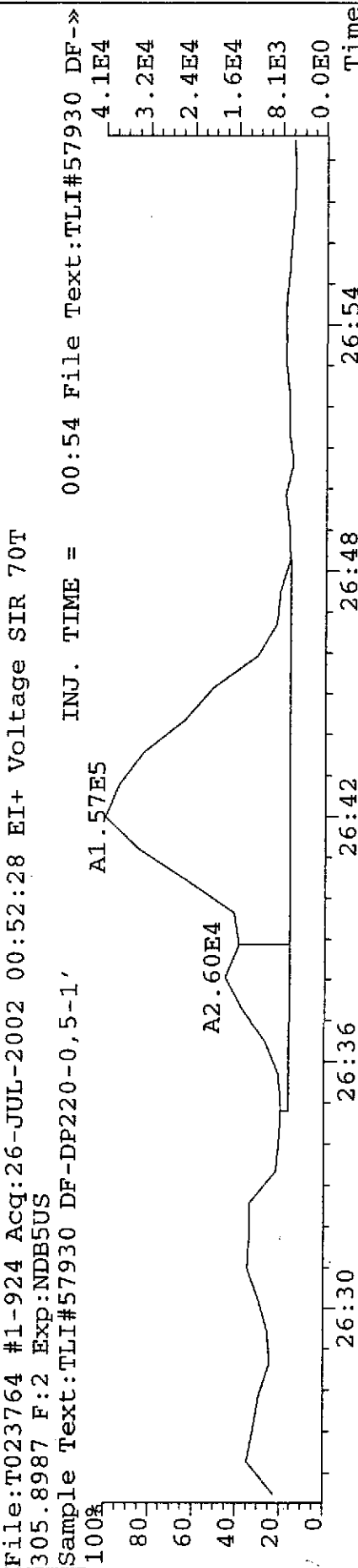
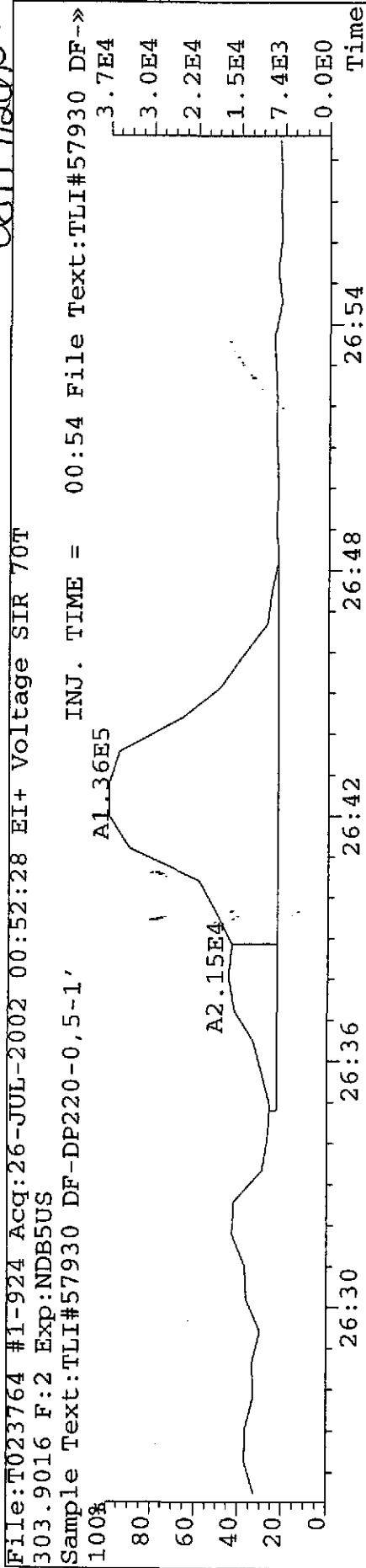


File:T023764 #1-708 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 00:54



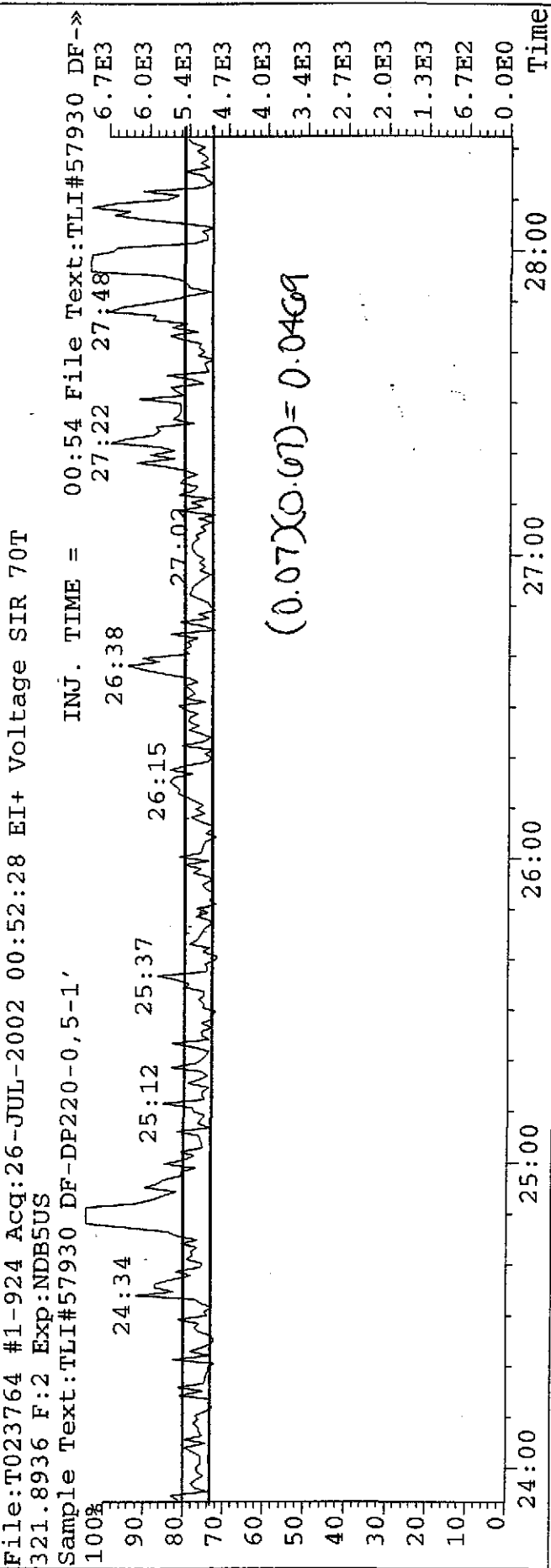
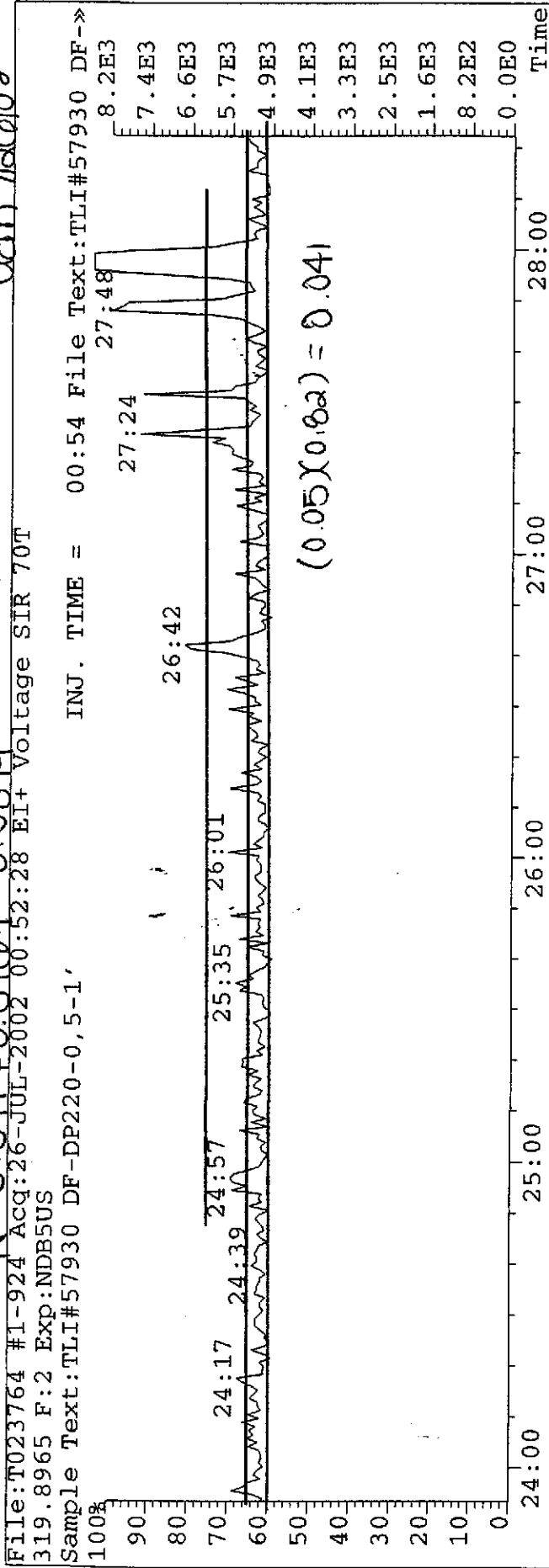


080712002



DEM 7120102

$$N = 0.041 + 0.0469 = 0.0879$$



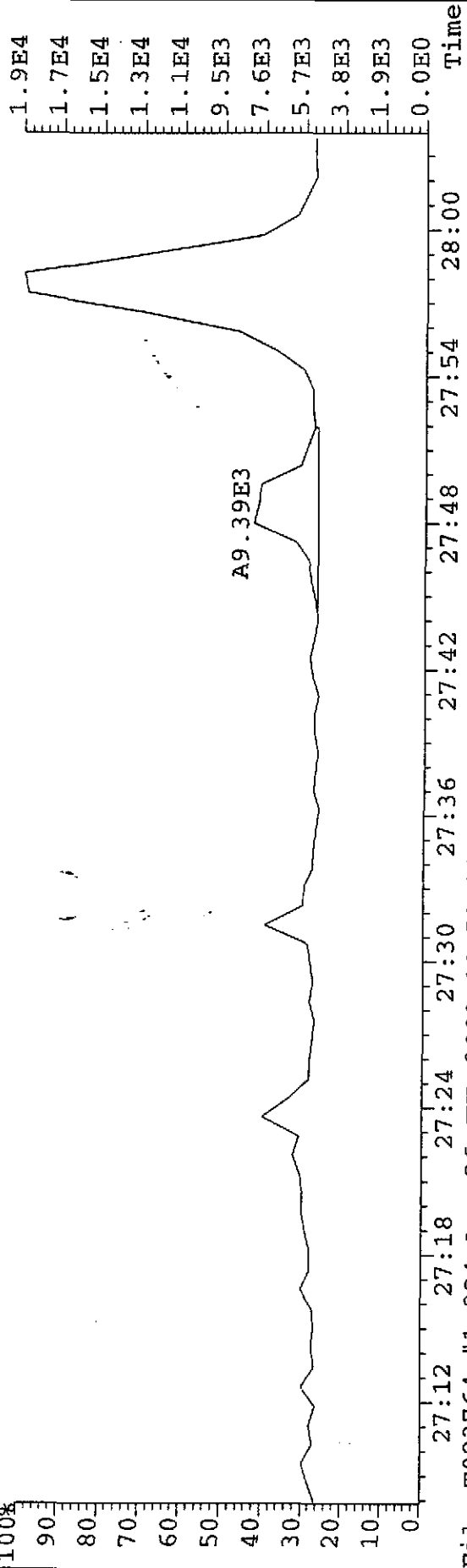
GM 780102

File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T

319.8965 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-0,5-1'

INJ. TIME = 00:54 File Text:TLI#57930 DF->

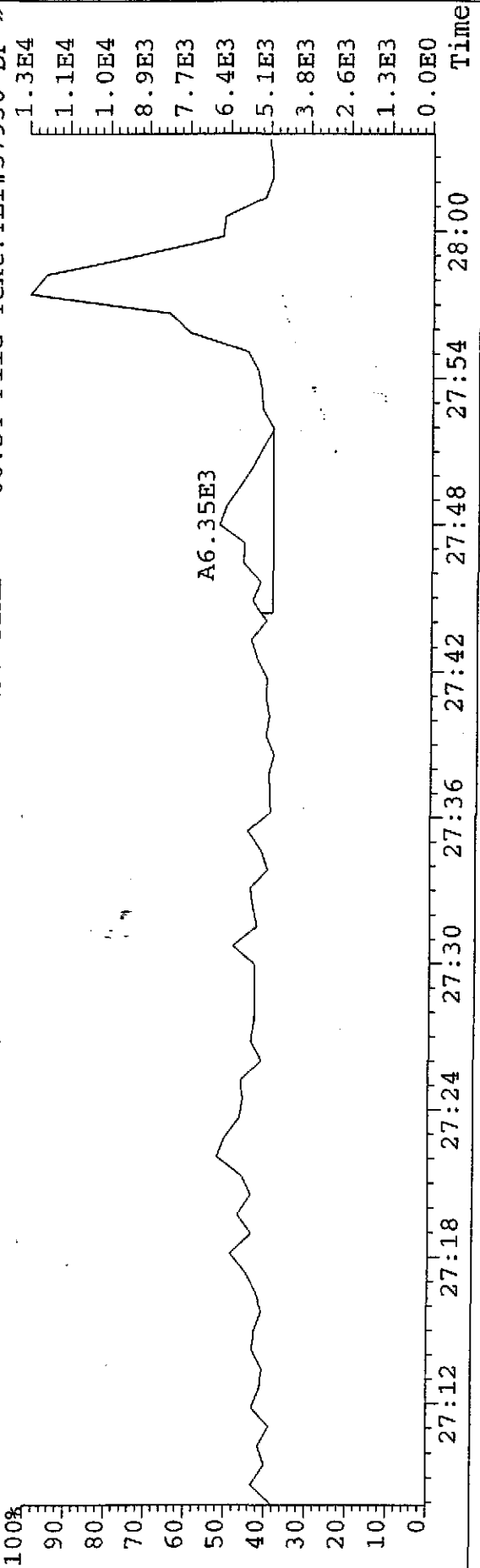


File:T023764 #1-924 Acq:26-JUL-2002 00:52:28 EI+ Voltage SIR 70T

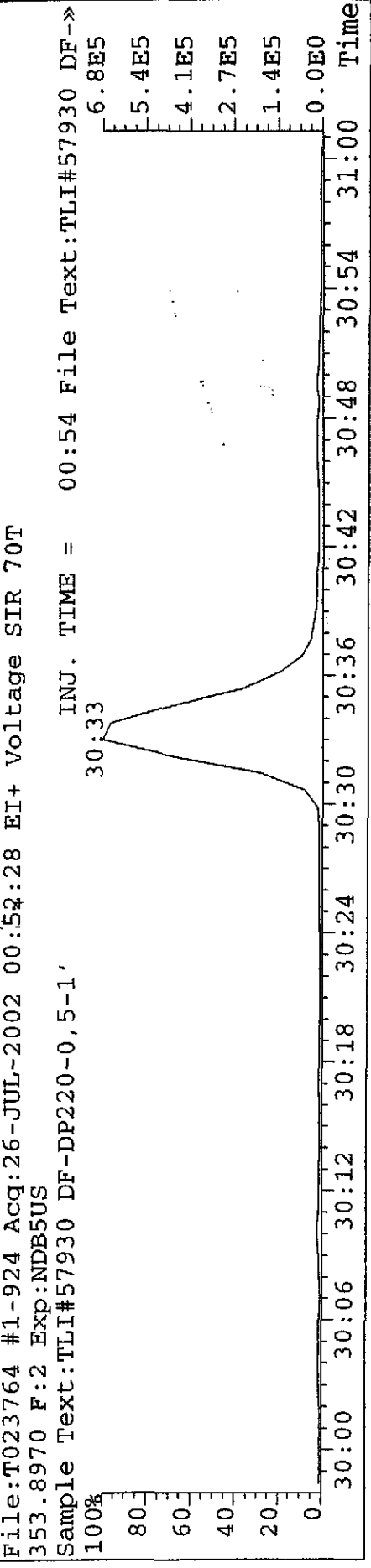
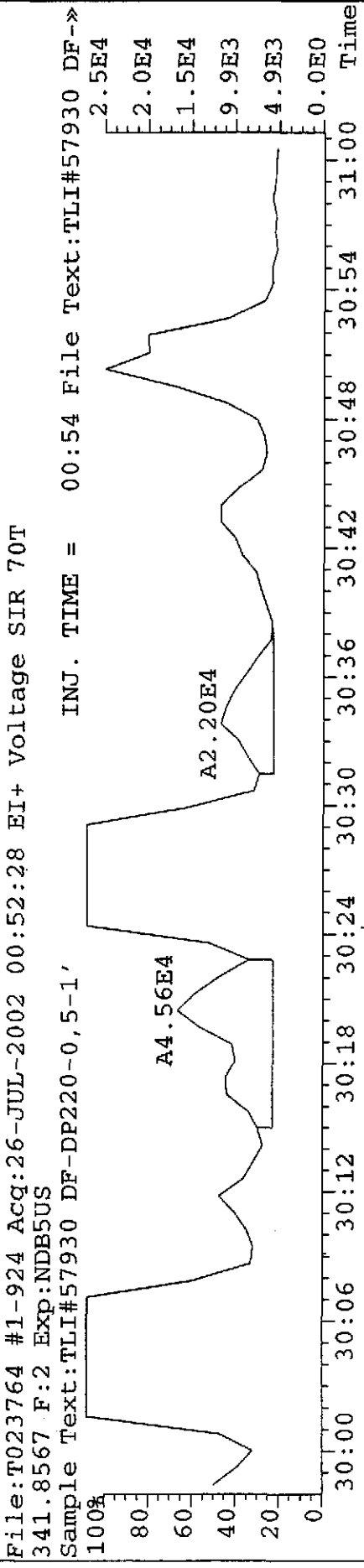
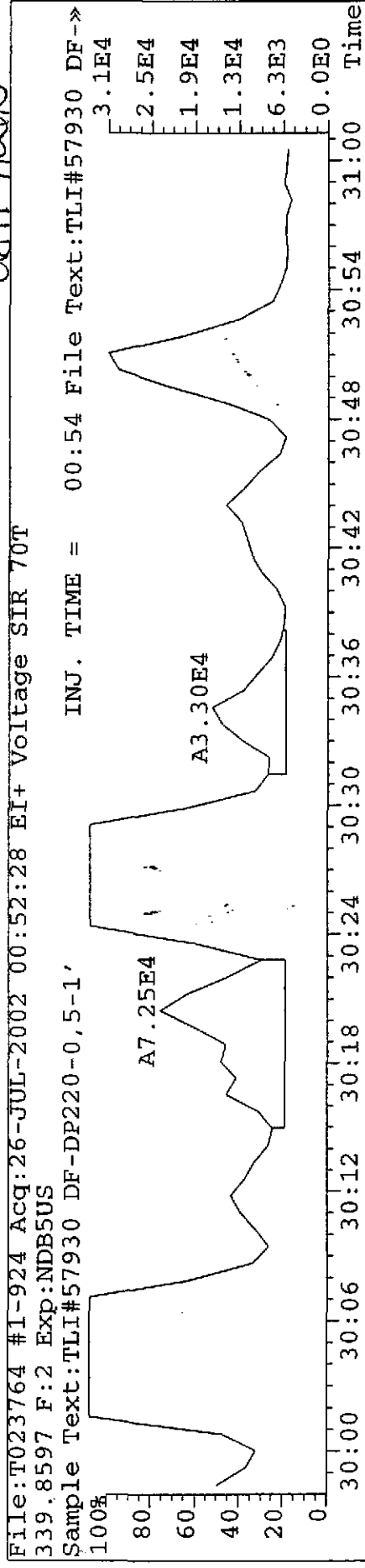
321.8936 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-0,5-1'

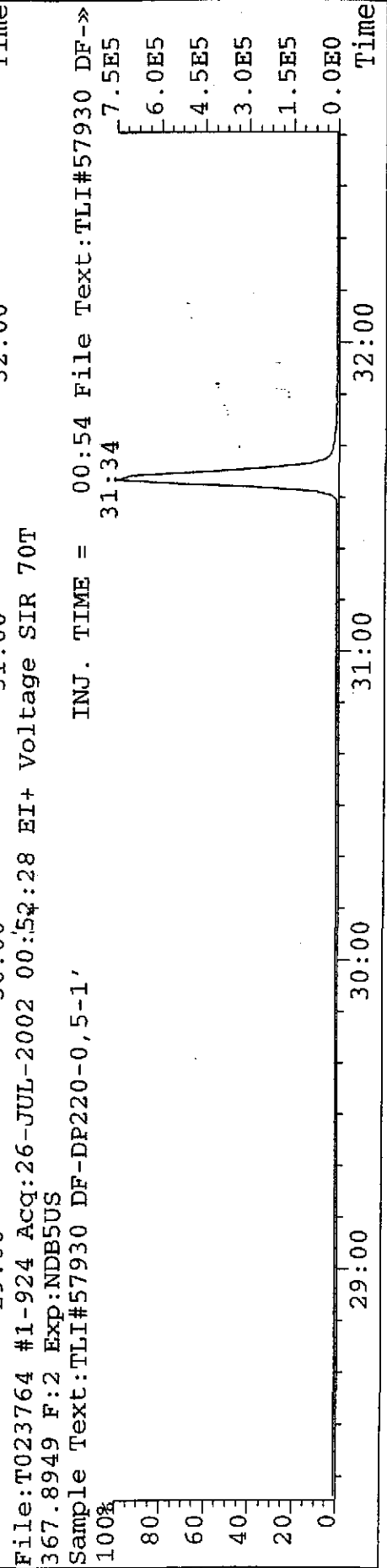
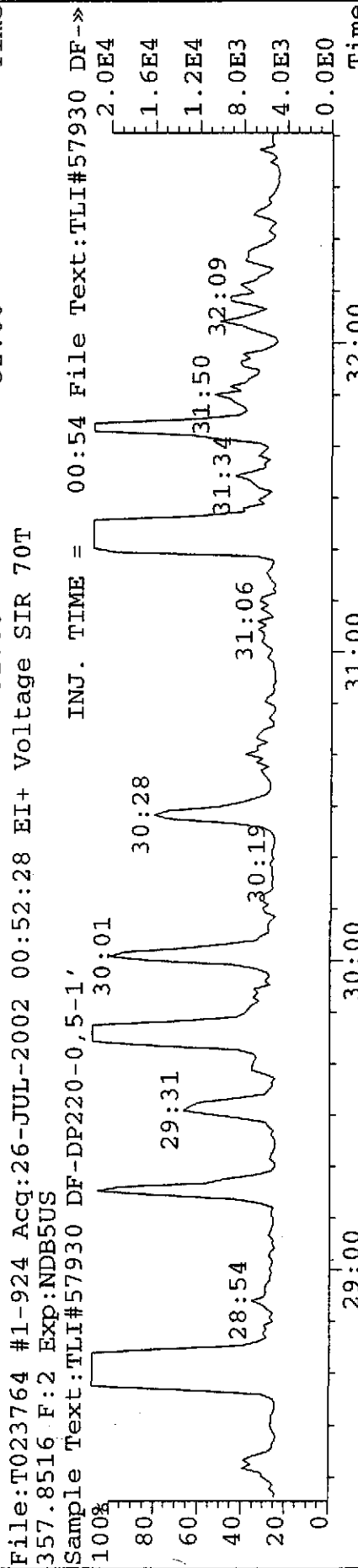
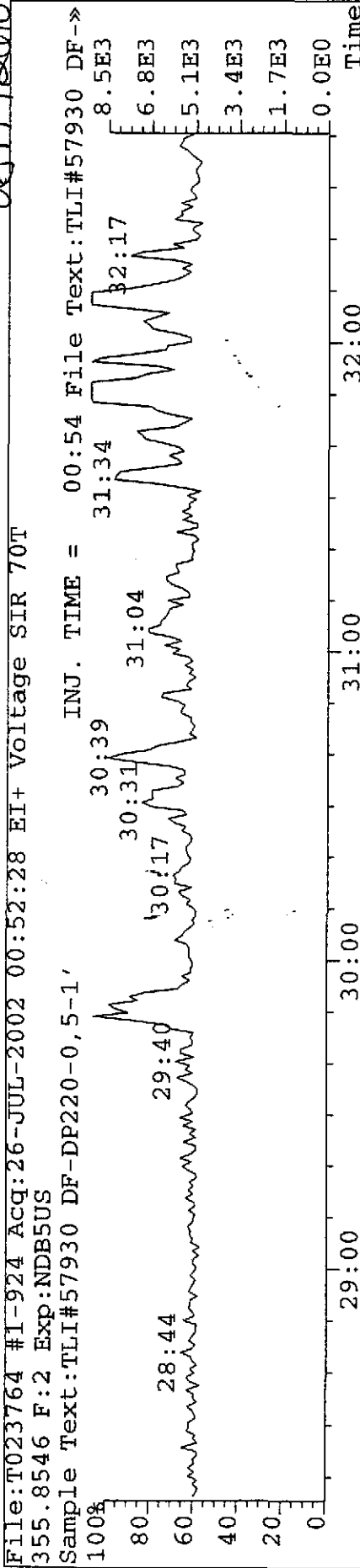
INJ. TIME = 00:54 File Text:TLI#57930 DF->



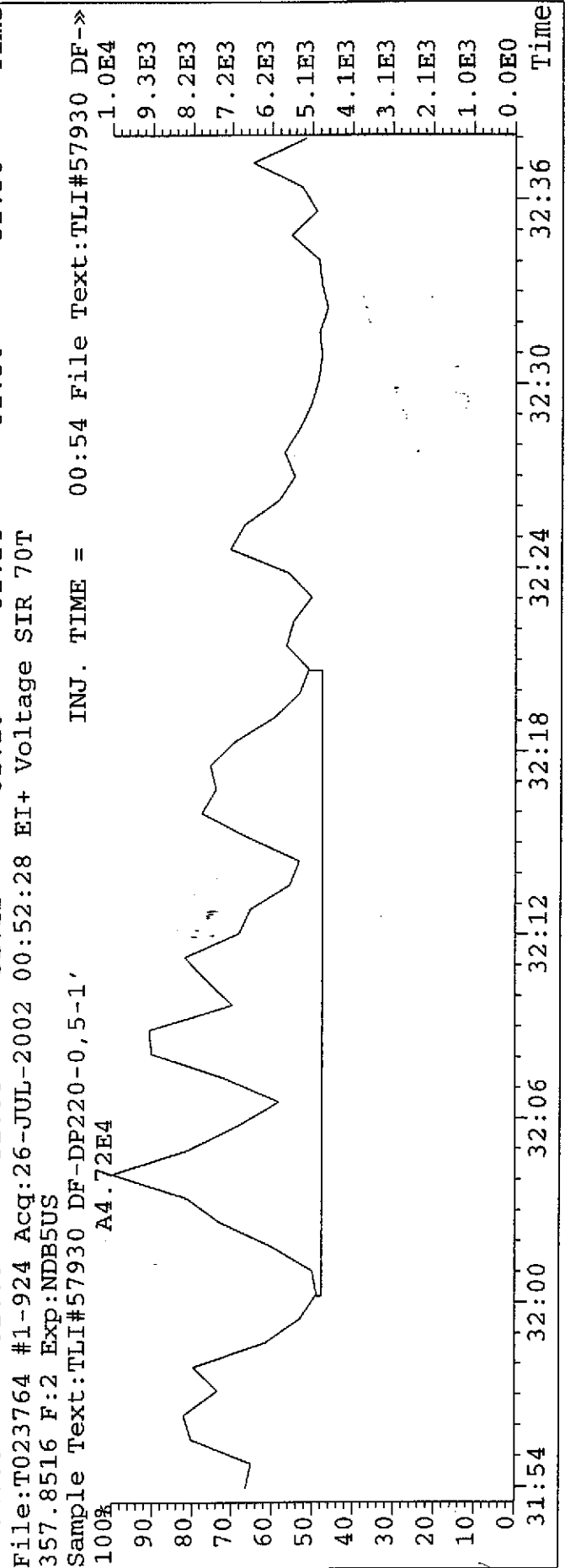
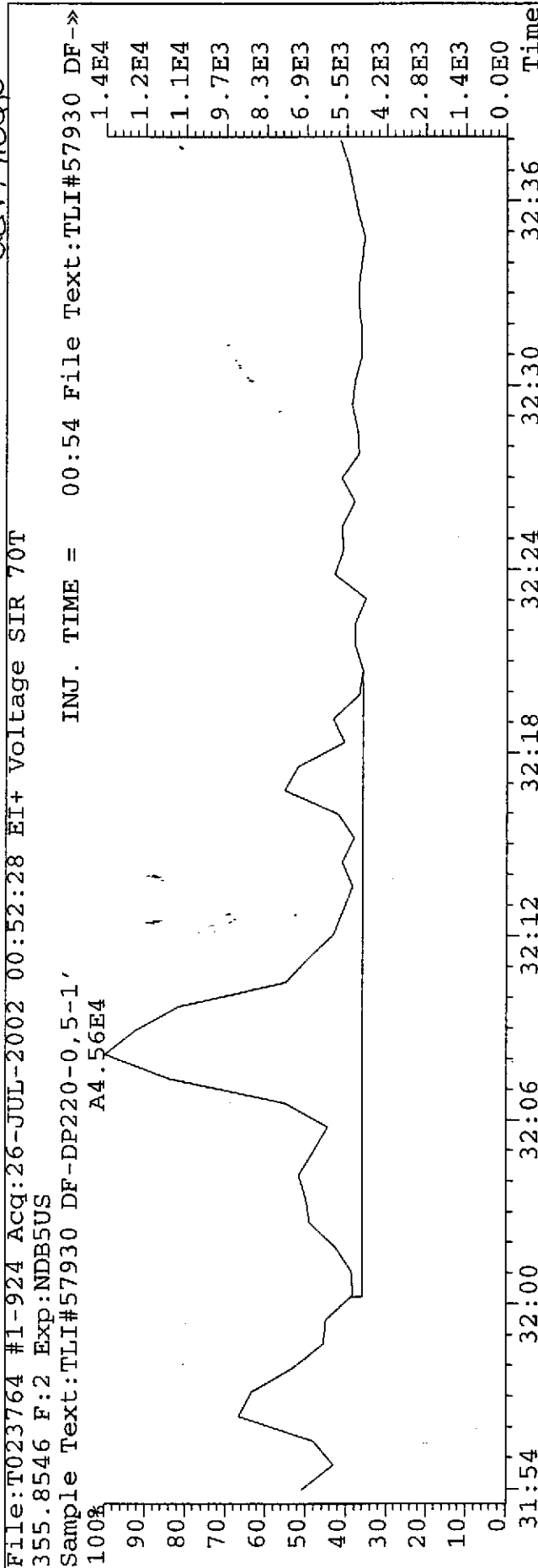
QEM 7120102



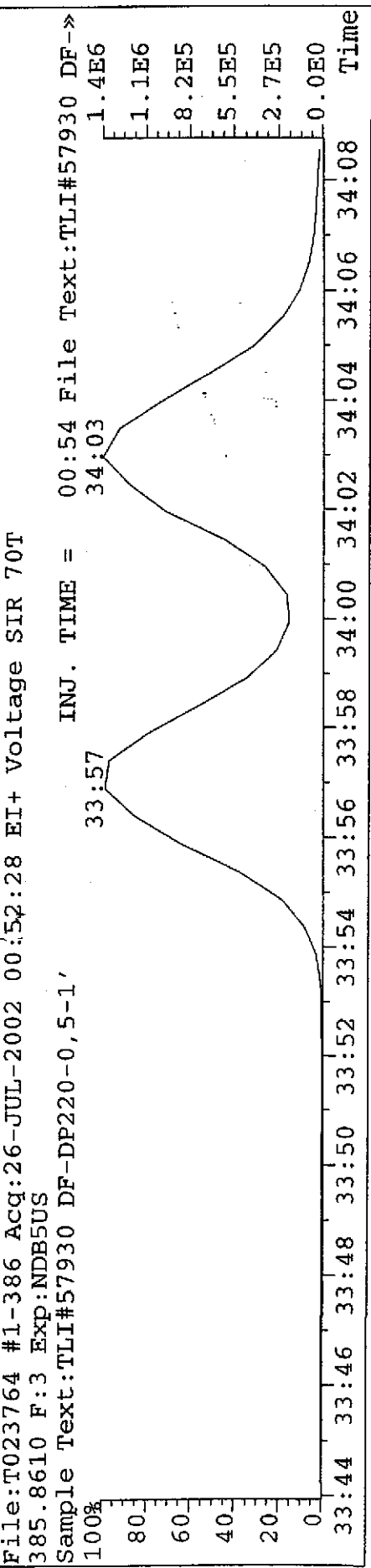
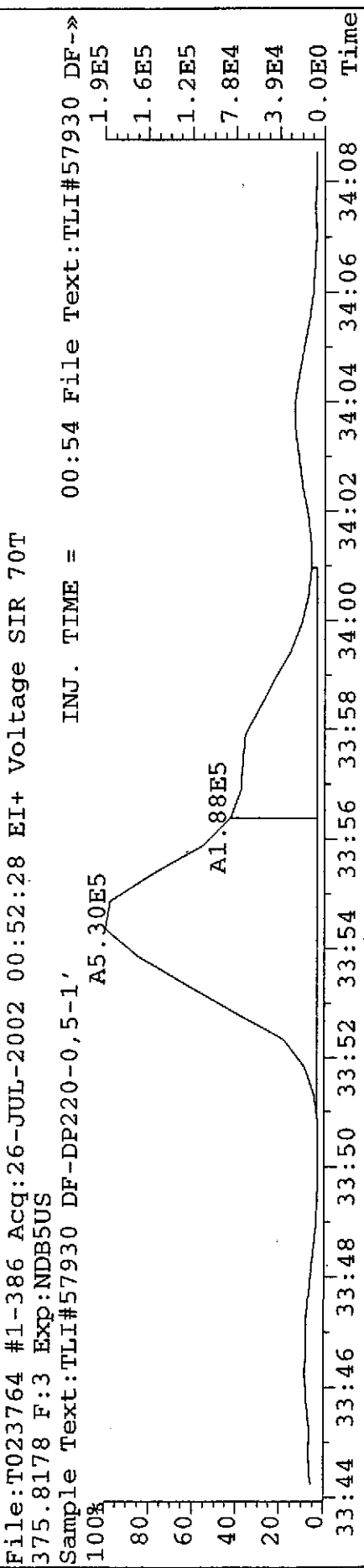
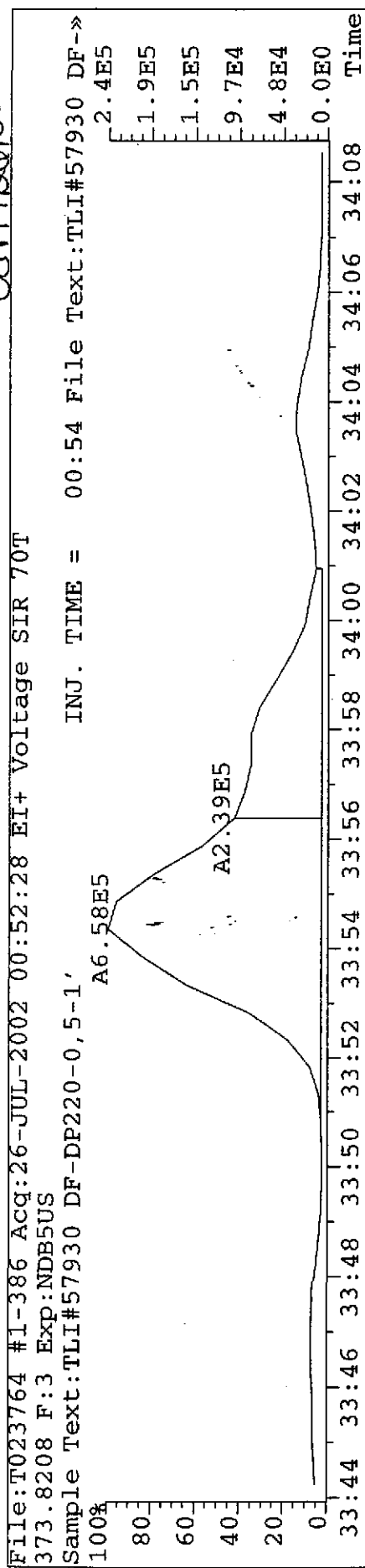
BN 72002



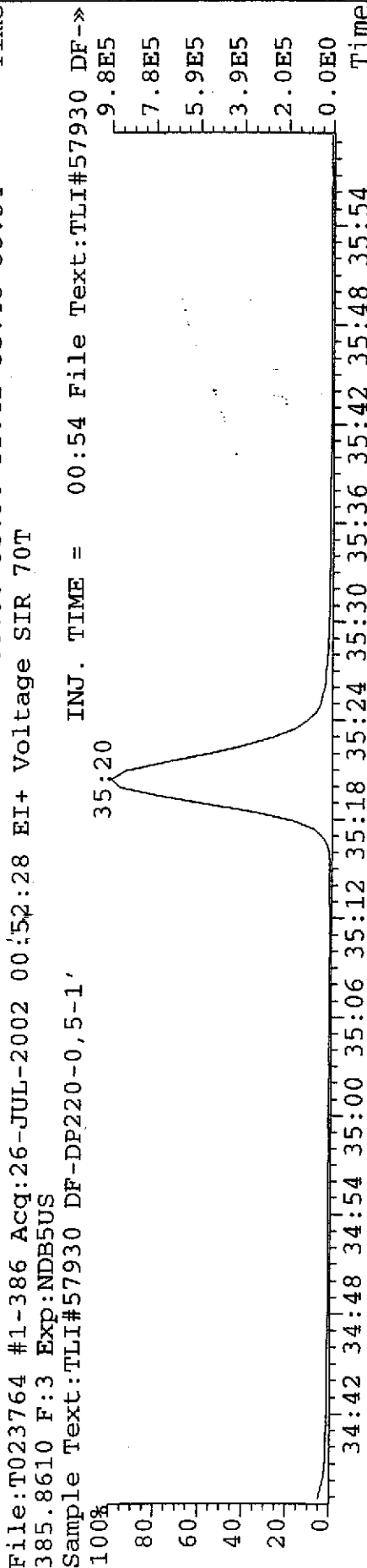
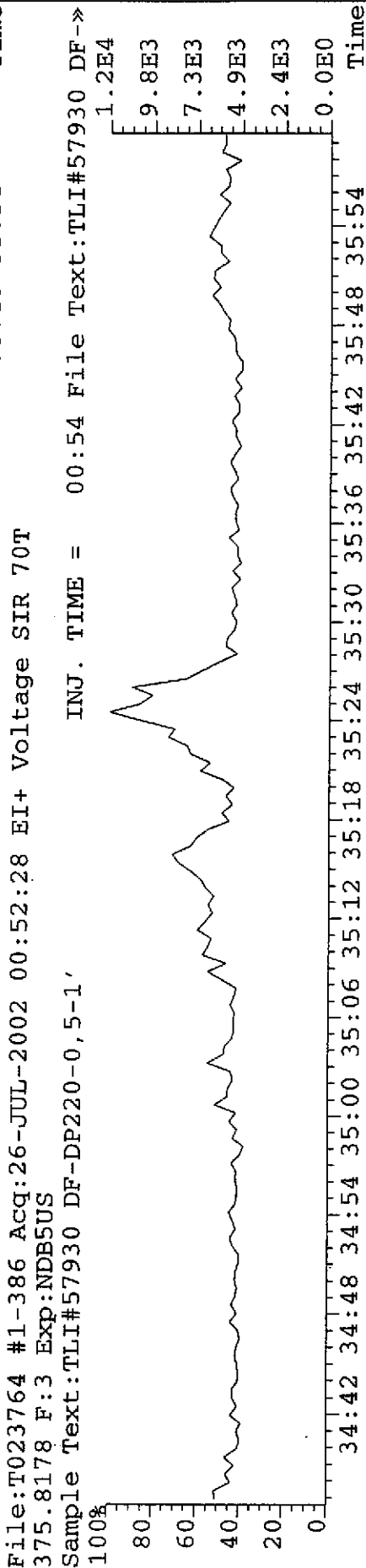
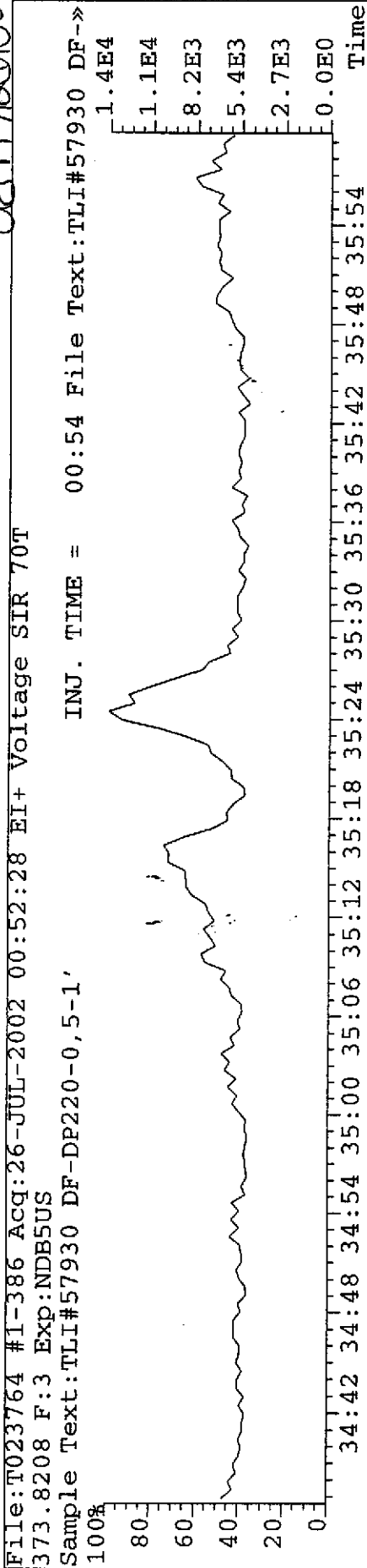
QEM 712000



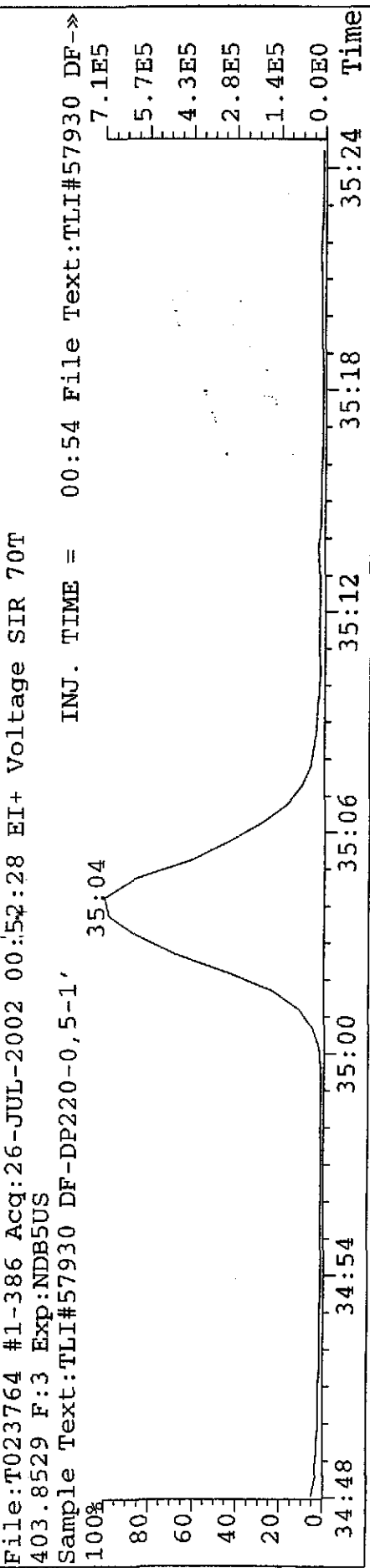
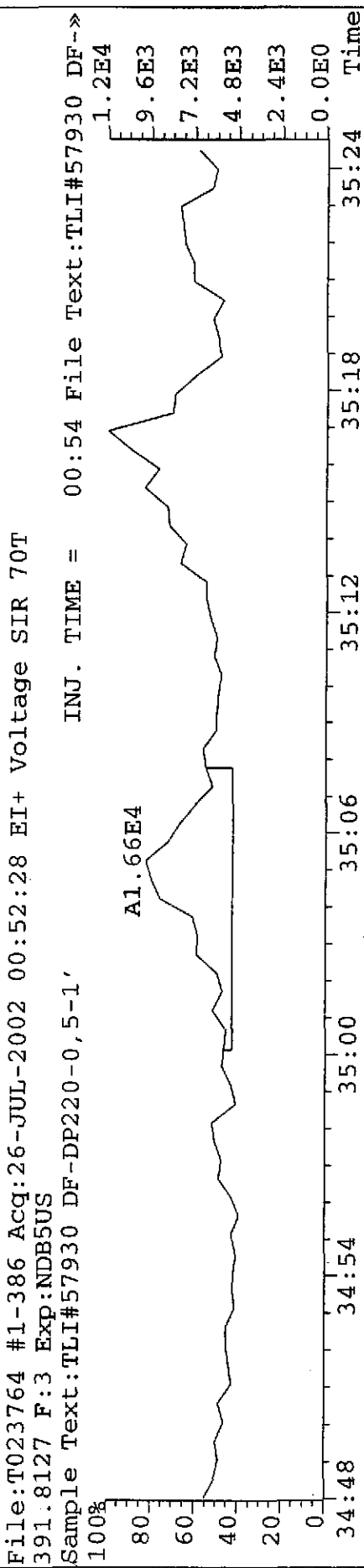
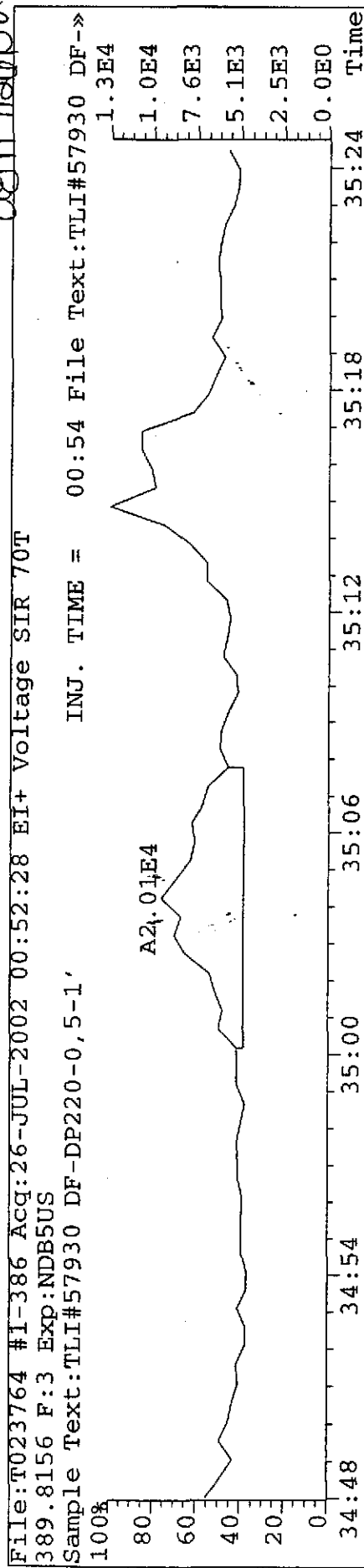
08M720102

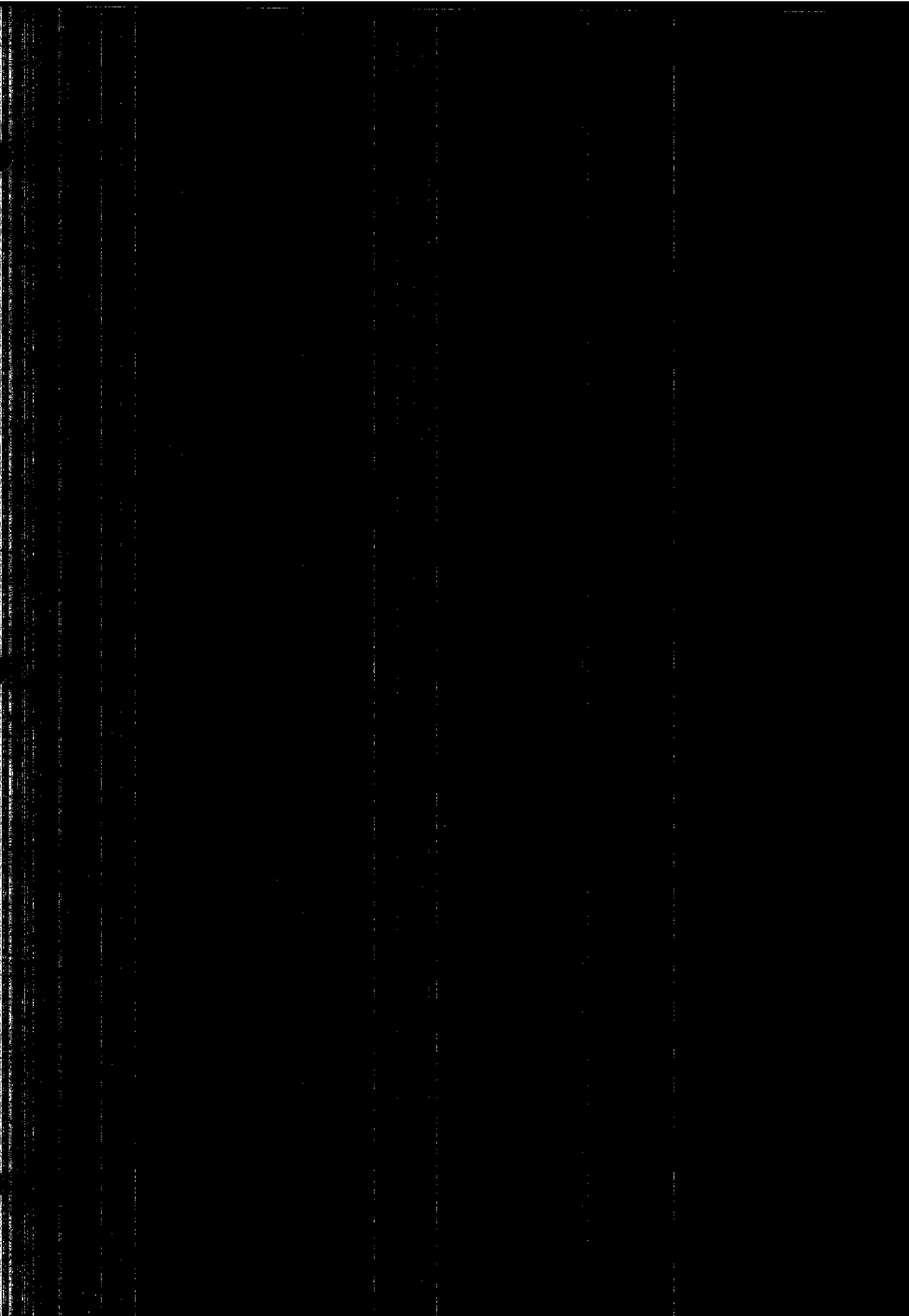


0207120102



02m 71ap02





InitialDate...

K 7/27/02

Data Review By:

Channel specific noise levels computed from 'NL' heights.

Page No. 1
07/27/2002

Listing of P022694B.dbf
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				0.794-1.103			
304-306		DC	NL	Height	0.19	0.08	0.11		
		DC	SN	18:42 RO	0.94	0.35		0.797	
		DC	SN	19:10 RO	4.71	0.40		0.817	
		DC	SN	19:15 RO	2.50	0.35		0.821	
		DC	SN	19:22 RO	0.26	0.39		0.826	
				19:32	0.85	8.07	3.70	4.37	0.833
				19:47 RO	1.13	1.94	1.03	0.91	0.844
				19:55 RO	2.07	1.75	1.18	0.57	0.849
				20:04 RO	3.92	0.59	0.47	0.12	0.856
		DC	SN	20:20 RO	0.29	0.27			0.867
		DC	SN	20:27 RO	0.46	0.38			0.872
		DC	SN	20:34 RO	1.67	0.80			0.877
				20:49 RO	1.54	0.71	0.43	0.28	0.888
				20:58 RO	1.00	1.24	0.62	0.62	0.894
				21:05	0.75	9.63	4.12	5.51	0.899
				21:36 RO	1.20	2.46	1.34	1.12	0.921
				21:48 RO	1.20	5.89	3.21	2.68	0.930
				21:57 RO	1.66	0.77	0.48	0.29	0.936
		DC	SN	22:03 RO	0.45	0.16			0.940
				22:17 RO	1.01	1.73	0.87	0.86	0.950
		DC	SN	22:33 RO	2.29	0.79			0.962
		DC	SN	23:06 RO	1.33	0.14			0.985
				23:18 RO	0.57	0.94	0.34	0.60	0.994
M				23:28	0.75	4.24	1.82	2.42	1.001 2378-TCDF AN
				23:41	0.70	0.34	0.14	0.20	1.010
				23:46	0.75	2.35	1.01	1.34	1.014
				24:03	0.75	35.10	15.07	20.03	1.026
		DC	SN	24:21 RO	2.20	0.16			1.038
				24:48 RO	1.51	9.22	5.55	3.67	1.058
				24:55	0.77	1.10	0.48	0.62	1.063
				25:16 RO	1.64	0.29	0.18	0.11	1.077
				25:23	0.76	3.37	1.45	1.92	1.082
		DC	SN	25:31 RO	0.63	0.26			1.088
		DC	SN	25:40 RO	1.83	0.17			1.095
		DC	SN	25:46 RO	0.35	0.54			1.099
		DC	WH	26:09 RO	0.58	0.30			1.115
		DC	WH	26:11 RO	0.11	0.30			1.117
304-306				20 Peaks		91.73			

13C12-TCDF
316-318

13C12-TCDF		0.65-0.89				0.957-1.043			
316-318		DC	NL	Height	0.27	0.11	0.16		
		DC	WL	20:04 RO	1.10	0.42		0.856	
		DC	WL	20:10 RO	3.00	0.24		0.860	
		DC	WL	20:28 RO	0.22	0.33		0.873	
		DC	WL	20:53 RO	0.20	0.30		0.891	
		DC	WL	21:27 RO	2.14	0.22		0.915	

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		21:58		0.80	1.10			0.937			
				23:27		0.80	151.05	67.06	83.99	1.000	13C12-2378-TCDF	IS0	
						Height	30.43	13.37	17.06				
	DC	SN		24:08		0.76	0.37			1.029			
	DC	SN		24:14	RO	0.50	0.54			1.033			
	DC	WH		24:48	RO	1.26	4.89			1.058			
	DC	WH		25:36	RO	3.09	0.45			1.092			
316-318						1 Peak	151.05						

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

13C12-TCDD						0.65-0.89				0.909-1.091			
332-334	DC	NL				Height	0.33	0.26	0.07				
				22:00		0.84	92.70	42.24	50.46	1.000	13C12-2378-TCDD	IS1	
						Height	15.53	6.96	8.57				
				22:16		0.87	124.80	58.20	66.60	1.012	13C12-1234-TCDD	RS1	
	DC	WH		24:48	RO	0.01	78.84			1.127			
332-334						2 Peaks	217.50						

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 ***

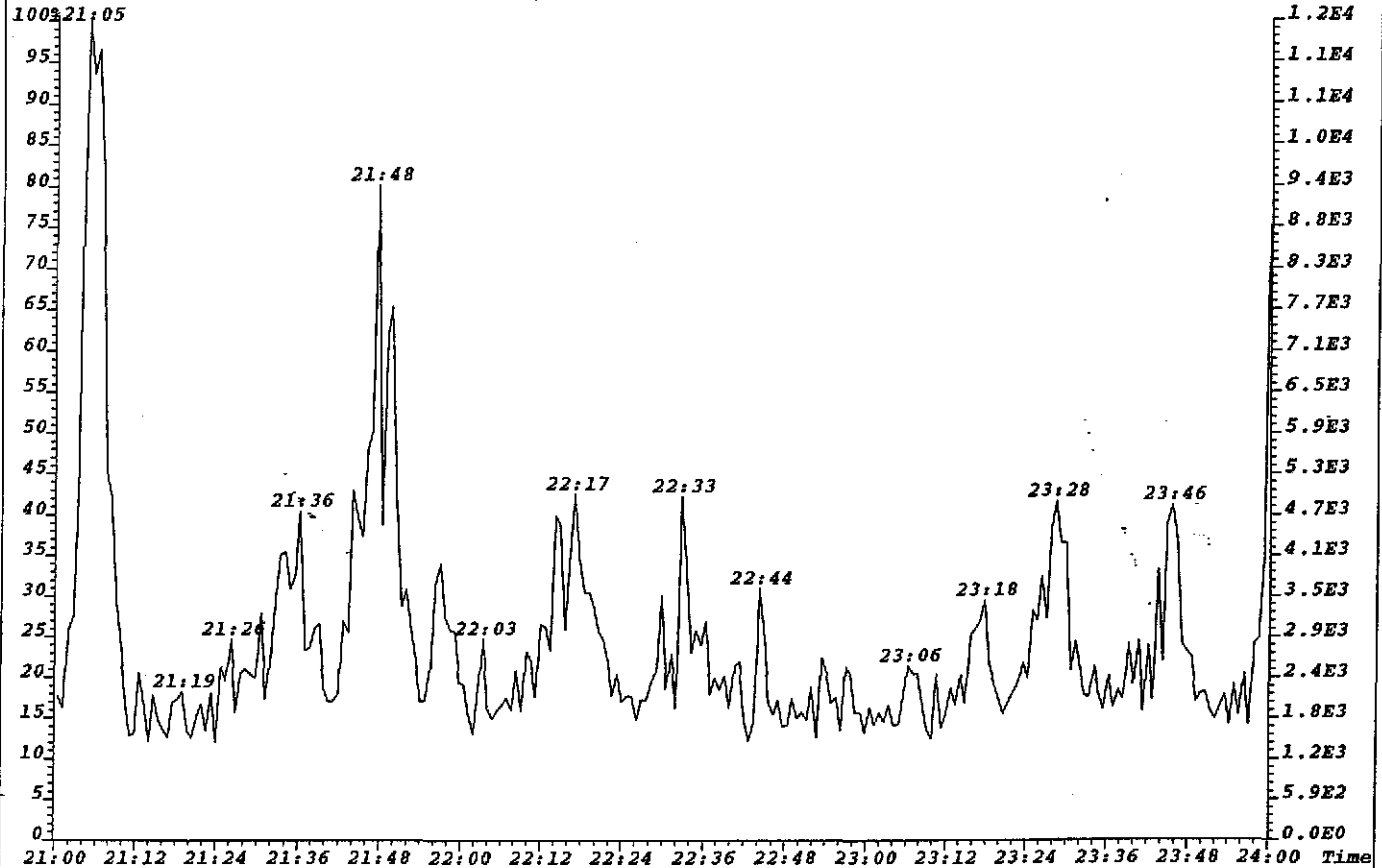
File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P

303.9016 GC:DB225 Exp:none

TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1'

INJ. TIME = 13:03

100% 21:05



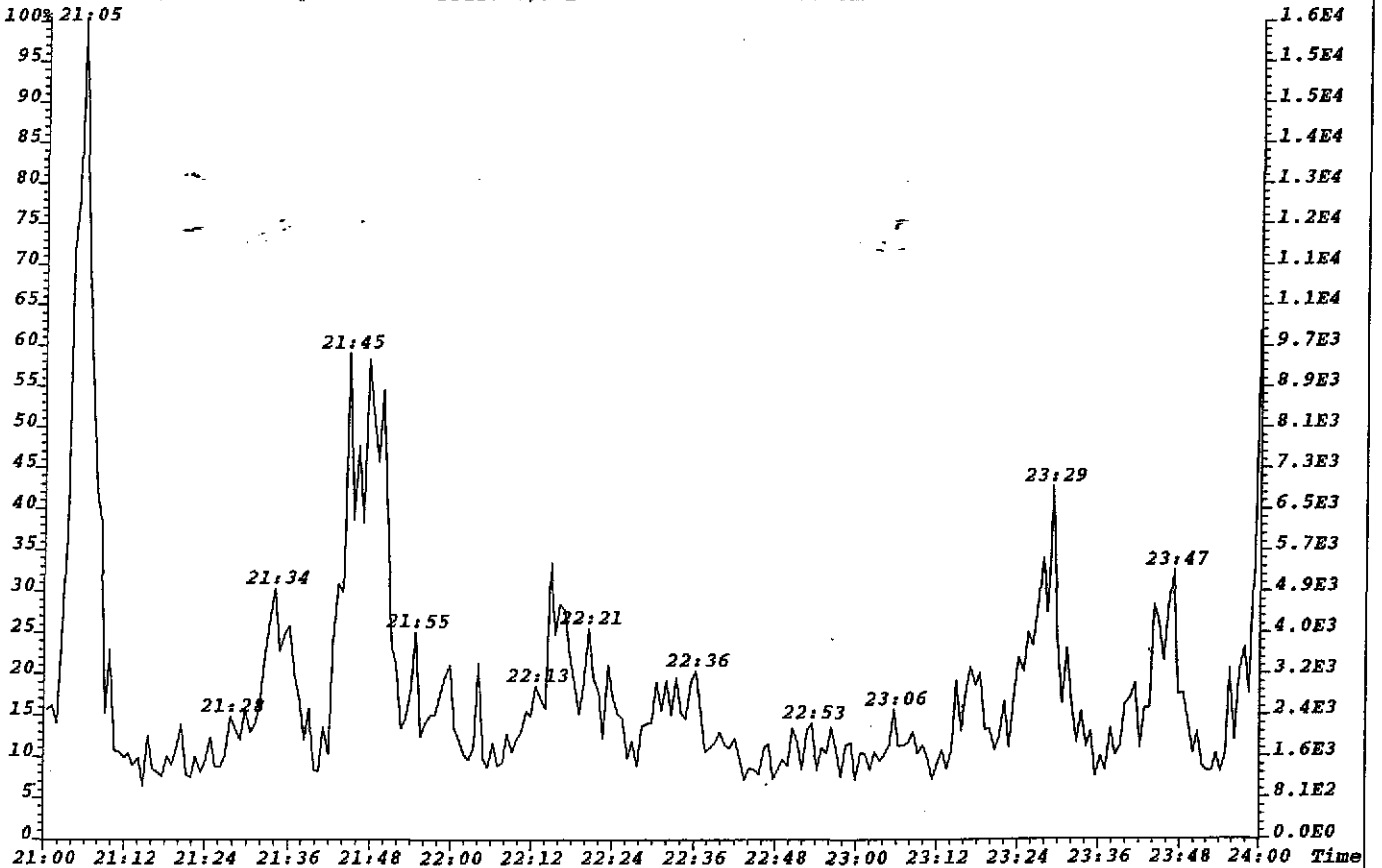
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305.8987 GC:DB225 Exp:none

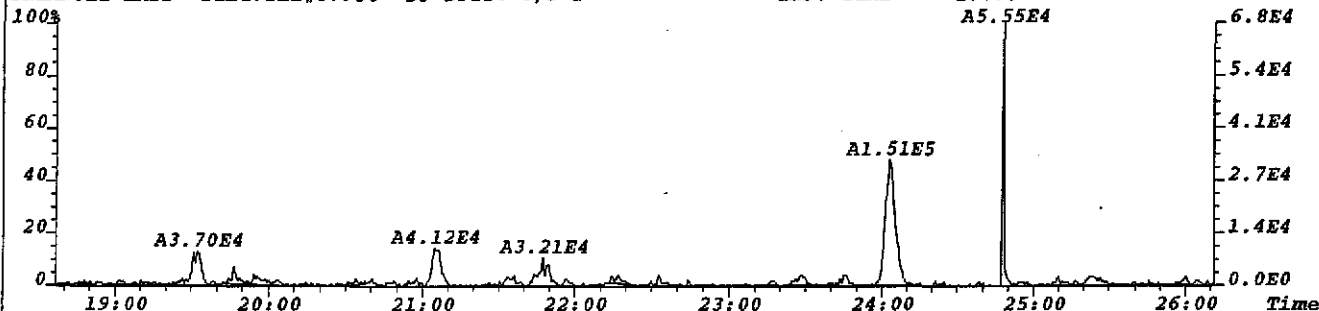
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1'

INJ. TIME = 13:03

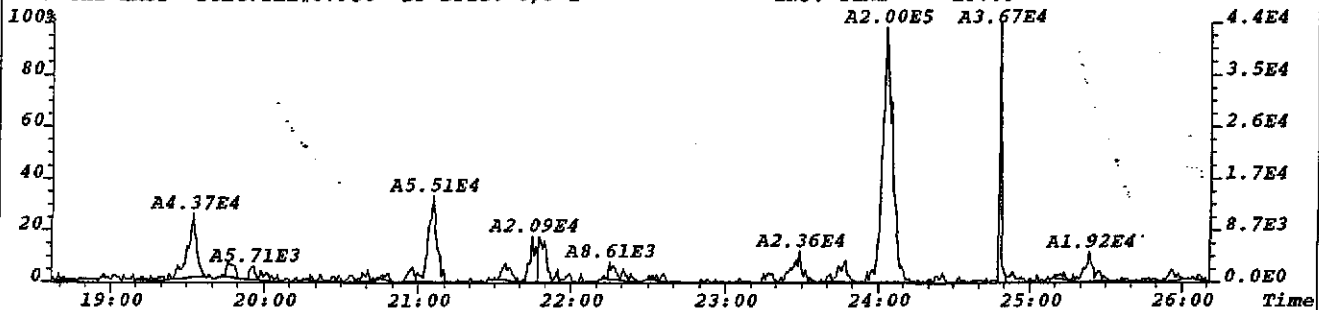
100% 21:05



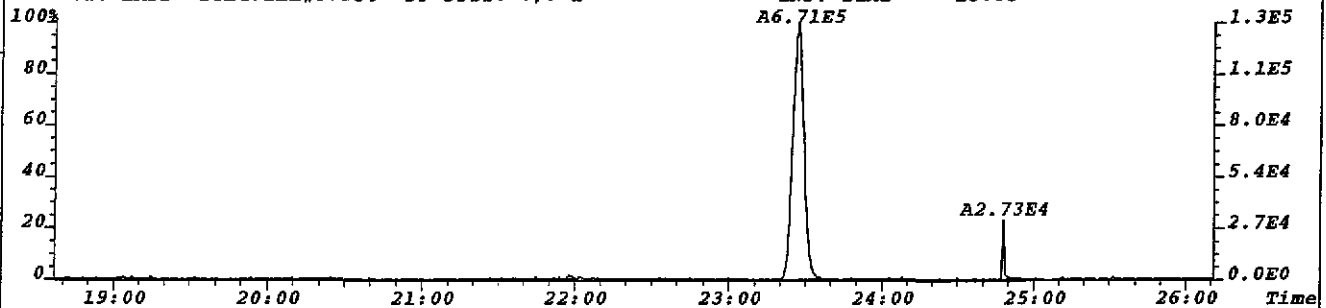
File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P Noise:98
303.9016 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,392.0,0.00%,F,F) Exp:DB225



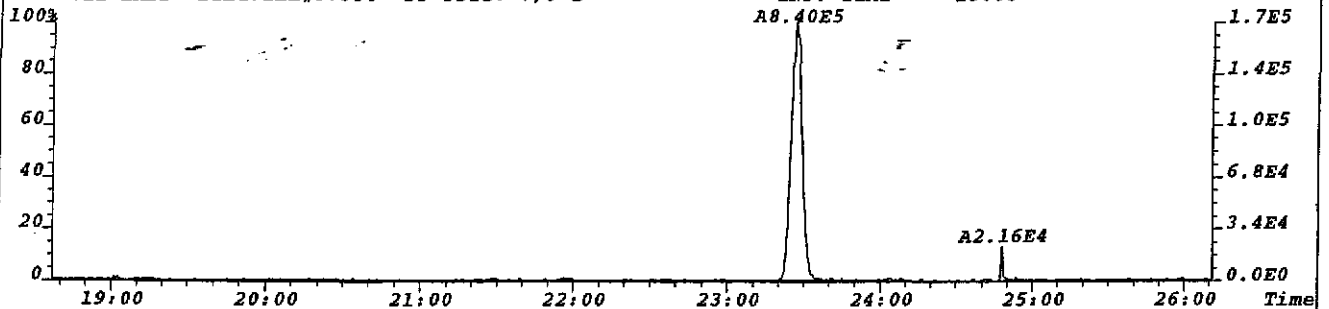
File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P Noise:137
305.8987 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,548.0,0.00%,F,F) Exp:DB225



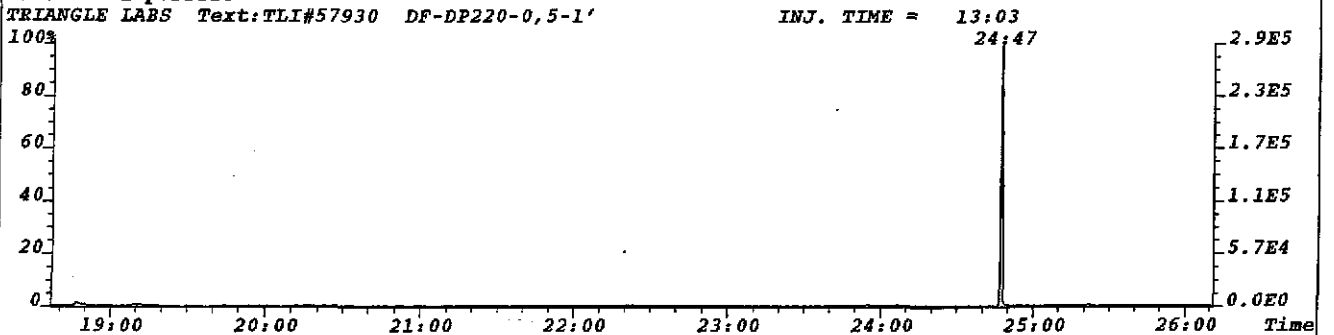
File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P Noise:134
315.9419 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,536.0,0.00%,F,F) Exp:DB225



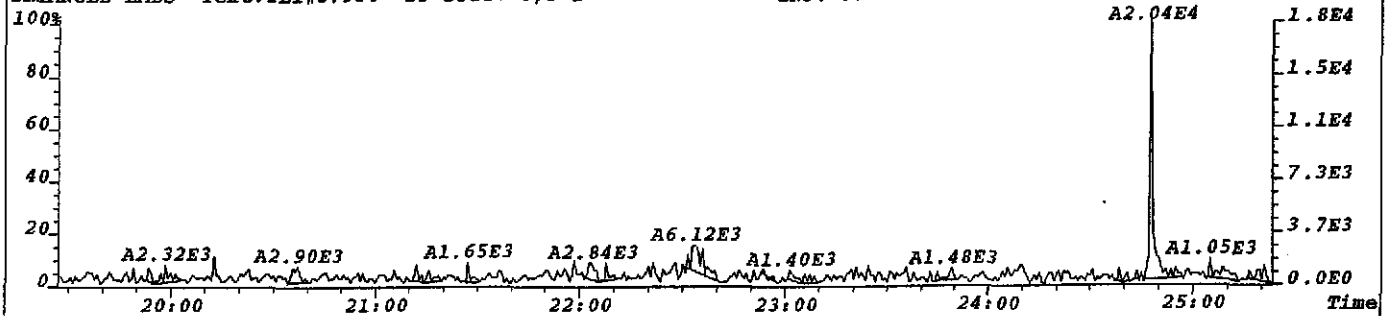
File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P Noise:198
317.9389 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,792.0,0.00%,F,F) Exp:DB225



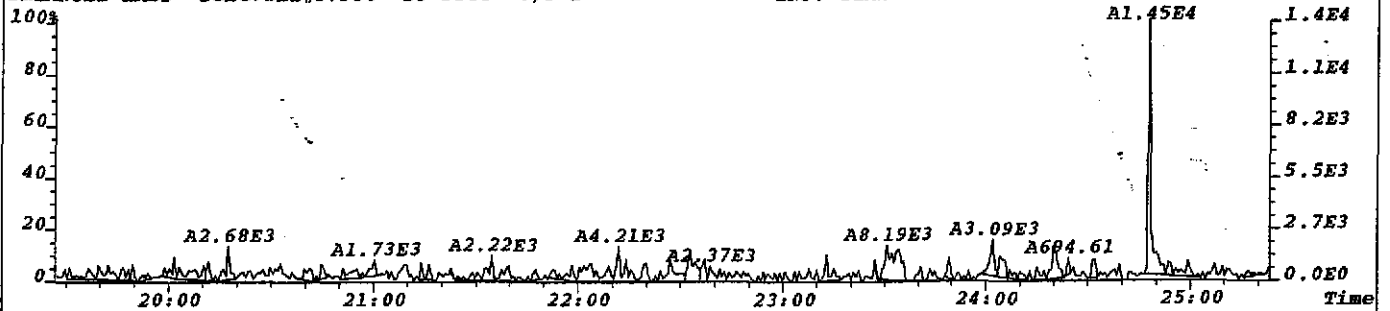
File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P
375.8364 Exp:DB225



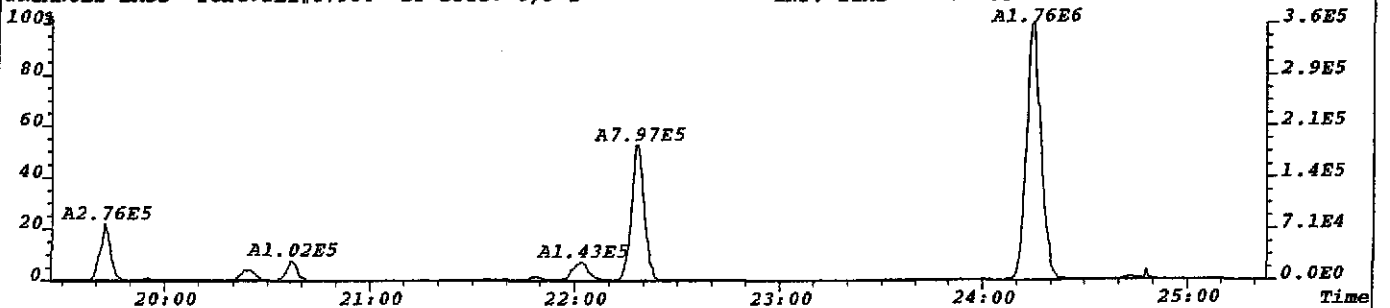
File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P Noise:184
319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,736.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 13:03



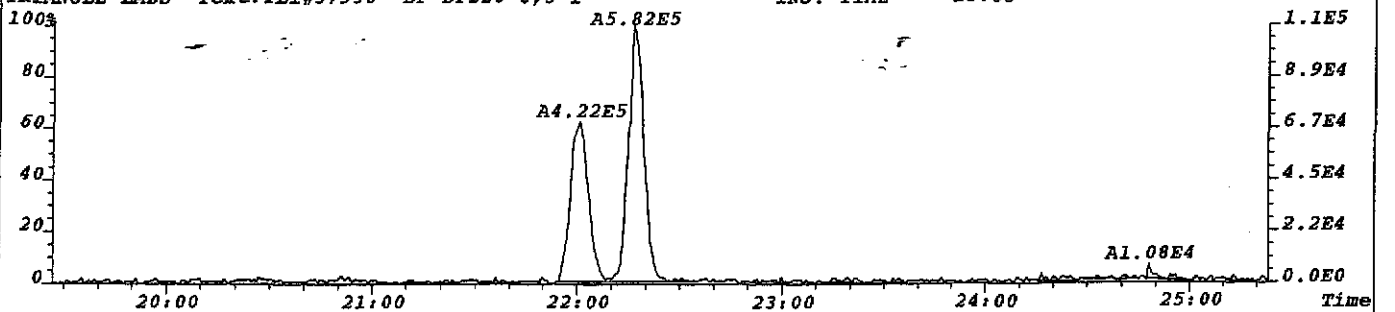
File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P Noise:100
321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,400.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 13:03



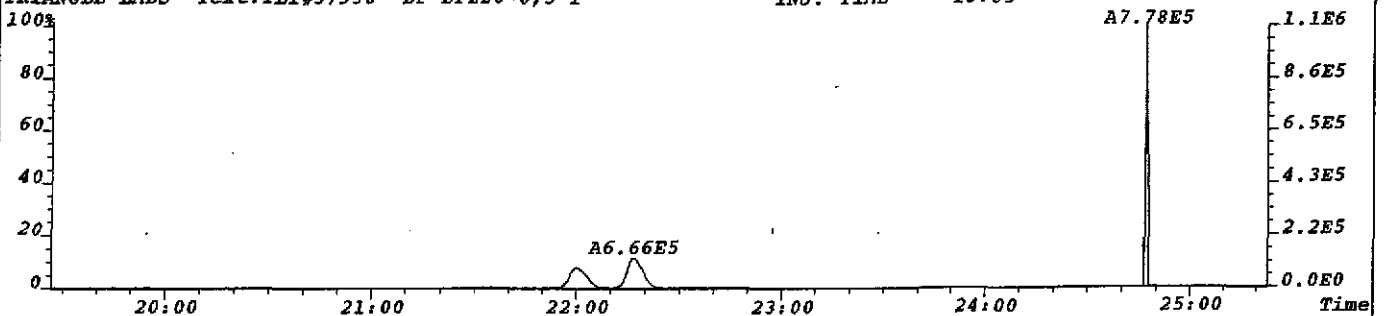
File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P Noise:92
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,368.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 13:03



File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P Noise:322
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1288.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 13:03



File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P Noise:86
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,344.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1' INJ. TIME = 13:03

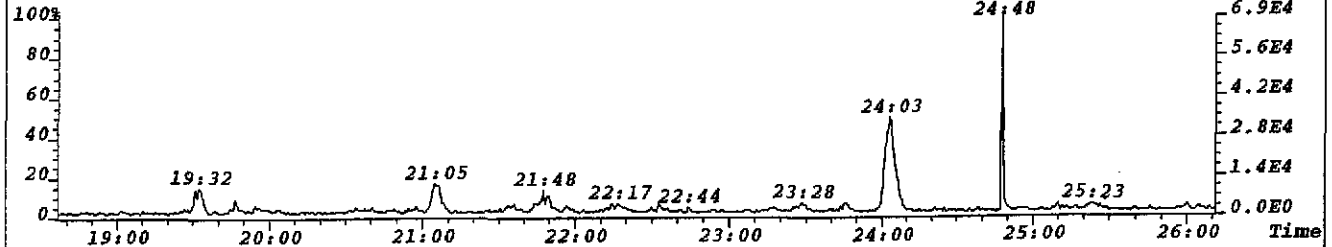


File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P

303.9016 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1'

INJ. TIME = 13:03
24:48

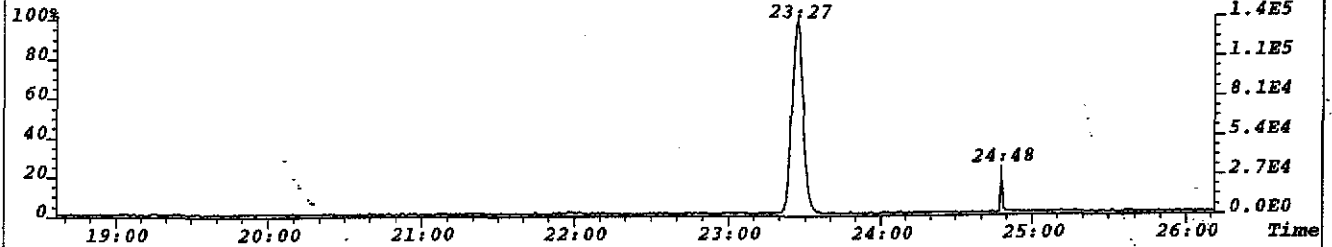


File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P

315.9419 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1'

INJ. TIME = 13:03

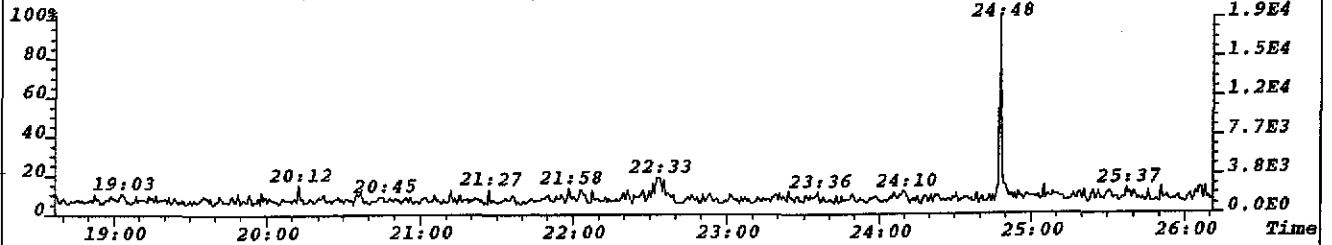


File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P

319.8965 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1'

INJ. TIME = 13:03

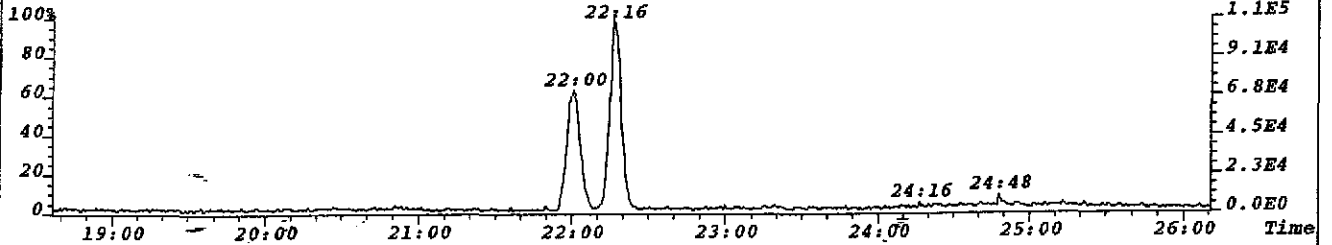


File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P

331.9368 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1'

INJ. TIME = 13:03

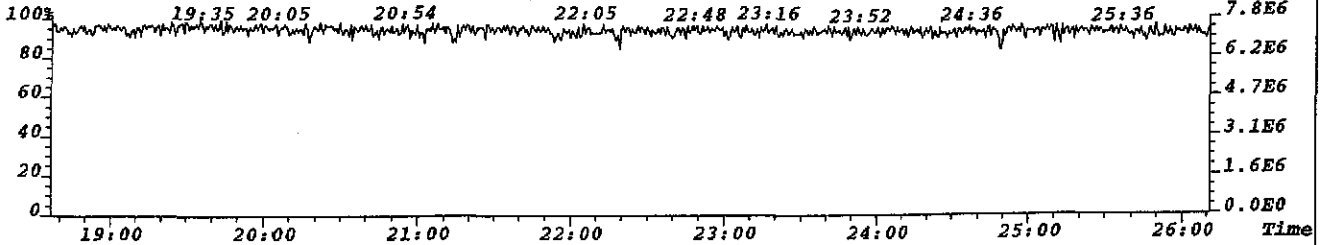


File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P

292.9825 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1'

INJ. TIME = 13:03

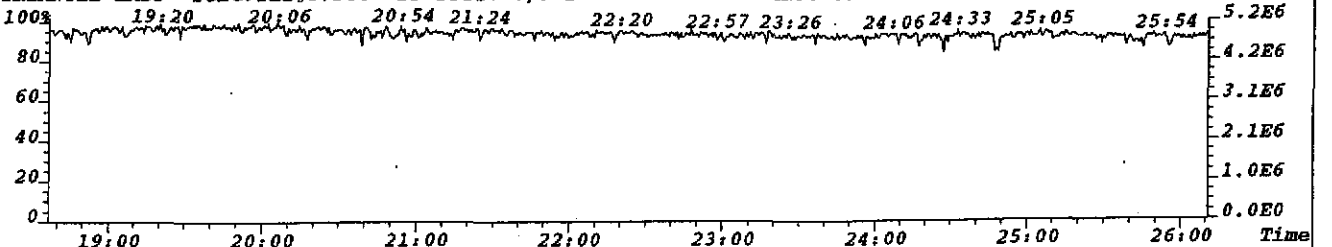


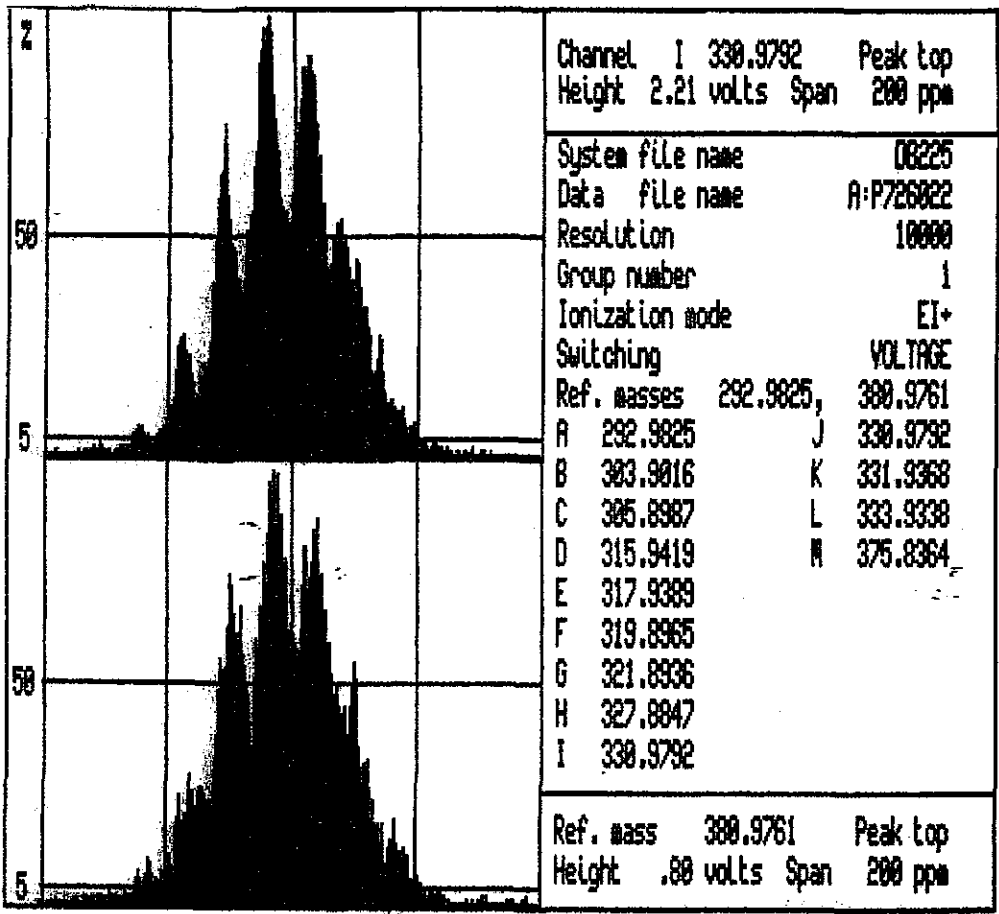
File:P022694 #1-3026 Acq:26-JUL-2002 13:03:39 EI+ Voltage SIR 70P

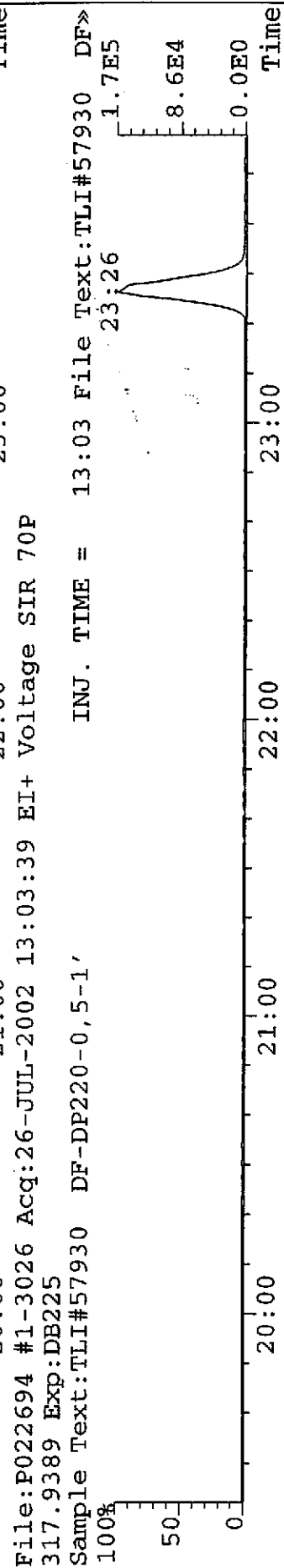
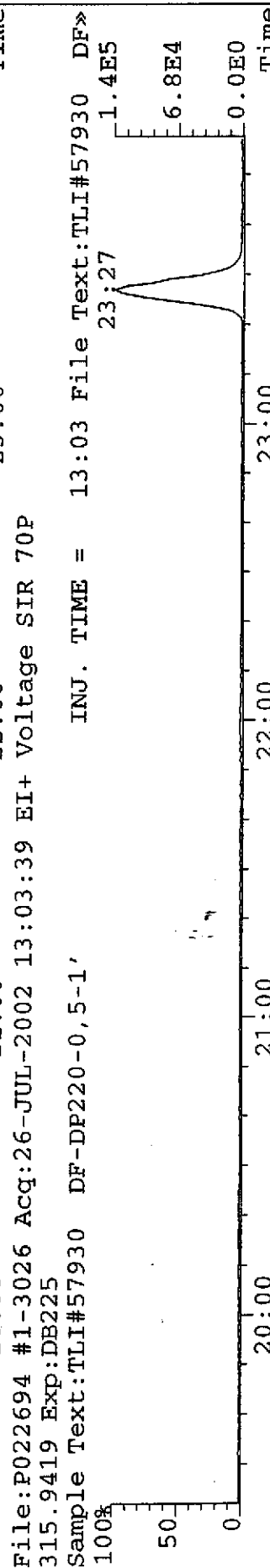
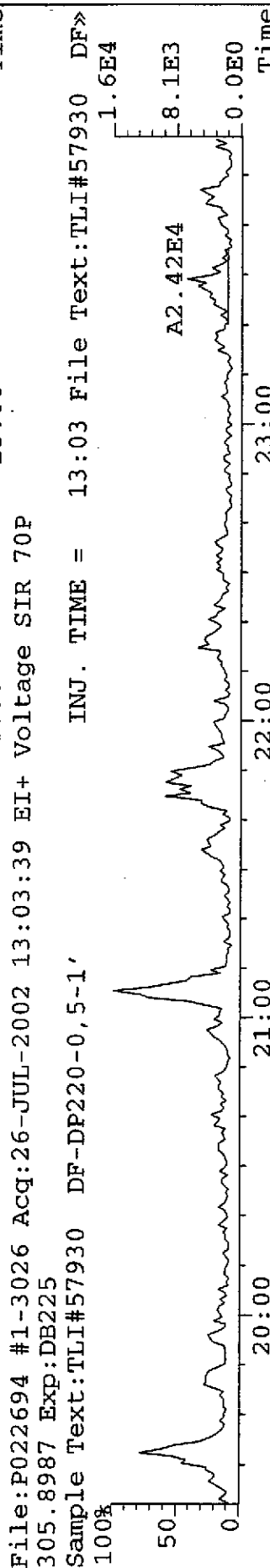
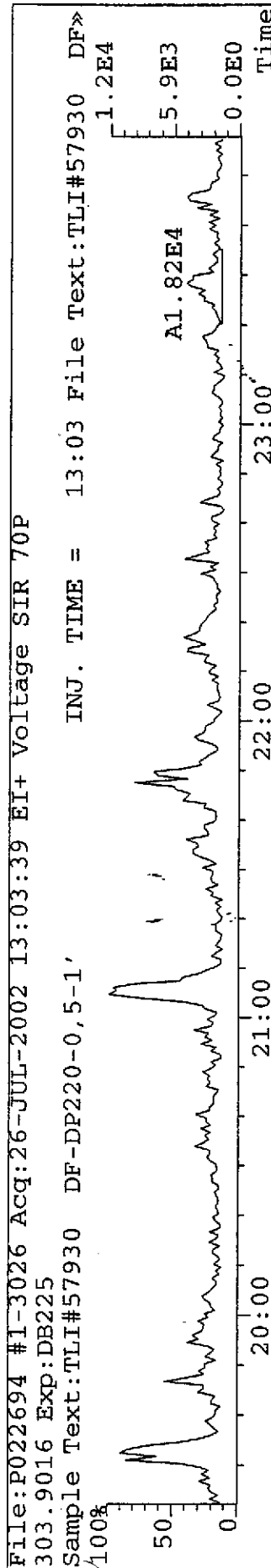
330.9792 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-0,5-1'

INJ. TIME = 13:03









Martin & Slagle

TLI Project: 57930
 Client Sample: DF-DP220-1'-2'

1613, Revision B PCDD/PCDF Analysis (c)
 Analysis File: T023765

Internal Standards	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	RRT	Flags
¹³ C ₁₂ -2,3,7,8-TCDD	148	74.4	25%-164%	0.80	27:24	1.007	---
¹³ C ₁₂ -1,2,3,7,8-PeCDD	160	80.2	25%-181%	1.48	31:34	1.160	---
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	175	87.6	32%-141%	1.21	34:40	0.988	---
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	187	93.8	28%-130%	1.21	34:45	0.990	---
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	166	83.4	23%-140%	1.02	38:06	1.086	---
¹³ C ₁₂ -1,2,3,4,6,7,8,9-OCDD	273	68.4	17%-157%	0.85	41:54	1.194	---
¹³ C ₁₂ -2,3,7,8-TCDF	176	88.2	24%-169%	0.75	26:42	0.981	---
¹³ C ₁₂ -1,2,3,7,8-PeCDF	162	81.2	24%-185%	1.48	30:35	1.124	---
¹³ C ₁₂ -2,3,4,7,8-PeCDF	161	80.8	21%-178%	1.47	31:15	1.148	---
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	195	97.7	26%-152%	0.52	33:58	0.968	---
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	205	103	26%-123%	0.52	34:04	0.971	---
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	207	104	28%-136%	0.51	34:34	0.985	---
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	199	99.9	29%-147%	0.51	35:21	1.008	---
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	189	94.6	28%-143%	0.45	37:02	1.056	---
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	158	79.1	26%-138%	0.44	38:37	1.101	---

Cleanup Standard	Conc. (pg/g)	% Recovery	QC Limits	RT	RRT	Flags
³⁷ Cl ₄ -2,3,7,8-TCDD	15.0	75.4	35%-197%	27:25	1.007	---

Recovery Standards	Ratio	RT	Flags
¹³ C ₁₂ -1,2,3,4-TCDD	0.82	27:13	---
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.19	35:05	---

Data Reviewer: CEM 07/26/2002

TLI Project: 57930
 Client Sample: DF-DP220-1'-2'

Toxicity Equivalents Report
 Analysis File: T023765

Client Project:	Kuhlman Electric	Date Received:	07/20/02	Spike File:	SP161B2S
Sample Matrix:	SOLID	Date Extracted:	07/23/02	ICal:	TF5612B
TLI ID:	331-18-3	Date Analyzed:	07/26/02	ConCal:	TB23758
Sample Size:	12.600 g	Dilution Factor:	1	% Moisture:	20.4
Dry Weight:	10.030 g	Blank File:	T023762	% Lipid:	n/a
GC Column:	DB-5	Analyst:	VSC	% Solids:	79.6

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	0.29	x	1.	=	0.29
1,2,3,7,8-PeCDD	1.1	x	0.5	=	0.55
1,2,3,4,7,8-HxCDD	{0.2}	x	0.1	=	0.02
1,2,3,6,7,8-HxCDD	2.9	x	0.1	=	0.29
1,2,3,7,8,9-HxCDD	{1.7}	x	0.1	=	0.17
1,2,3,4,6,7,8-HpCDD	18.2	x	0.01	=	0.182
1,2,3,4,6,7,8,9-OCDD	306	x	0.001	=	0.306
TOTAL PCDD					1.81
2,3,7,8-TCDF	3.9	x	0.1	=	0.39
1,2,3,7,8-PeCDF	1.8	x	0.05	=	0.090
2,3,4,7,8-PeCDF	4.8	x	0.5	=	2.4
1,2,3,4,7,8-HxCDF	11.9	x	0.1	=	1.19
1,2,3,6,7,8-HxCDF	4.9	x	0.1	=	0.49
2,3,4,6,7,8-HxCDF	4.4	x	0.1	=	0.44
1,2,3,7,8,9-HxCDF	{0.2}	x	0.1	=	0.02
1,2,3,4,6,7,8-HpCDF	123	x	0.01	=	1.23
1,2,3,4,7,8,9-HpCDF	3.7	x	0.01	=	0.037
1,2,3,4,6,7,8,9-OCDF	43.1	x	0.001	=	0.0431
TOTAL PCDF					6.3

Total EPA TEFs, 1989a: 8.1 pg/g

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

InitialDate...

Data Review By: CEM 7/26/02

Calculated Noise Height: 0.08

Page No. 1 Listing of T023765B.dbf
07/26/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/

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

TCDF		0.65-0.89				0.880-1.070			
304-306		DC	NL	Height	0.16	0.09	0.07		
D	D	WL	23:33	0.80	48.48			0.882	
			24:02	RO 0.93	13.24	6.37	6.87	0.900	
			24:11	0.88	5.59	2.62	2.97	0.906	
			24:23	0.87	3.68	1.71	1.97	0.913	J
			24:37	0.80	14.11	6.25	7.86	0.922	
			24:47	0.89	11.82	5.58	6.24	0.928	
			25:05	0.83	6.51	2.96	3.55	0.939	
			25:13	0.84	64.89	29.53	35.36	0.944	
			25:27	RO 0.90	10.75	5.08	5.67	0.953	
			25:47	0.83	31.07	14.13	16.94	0.966	
			26:07	0.86	49.69	22.94	26.75	0.978	
			26:18	0.79	49.27	21.67	27.60	0.985	
A			26:33	0.81	11.07	4.97	6.10	0.994	
M			26:39	0.80	11.69	5.19	6.50	0.998	
			26:43	0.79	35.80	15.80	20.00	1.001	2378-TCDF AN
			27:09	0.89	11.88	5.58	6.30	1.017	
			27:34	0.87	29.76	13.84	15.92	1.032	
			27:54	0.82	343.15	154.71	188.44	1.045	
			28:15	RO 1.07	1.51	0.78	0.73	1.058	
		X	28:34	RO 0.95	5.04	2.45	2.59	1.070	
		DC	WH	28:55	RO 1.33	3.38		1.083	
304-306			19	Peaks	710.52				

13C12-TCDF		0.65-0.89				0.944-1.131			
316-318		DC	NL	Height	0.16	0.07	0.09		
				25:42	RO 0.90	3.96	1.88	2.08	0.963
				25:59	0.72	1.62	0.68	0.94	0.973
				26:19	0.70	6.88	2.84	4.04	0.986
				26:42	0.75	818.16	350.65	467.51	1.000 13C12-2378-TCDF ISO
					Height	202.10	87.40	114.70	
				27:00	RO 1.14	4.32	2.30	2.02	1.011
316-318			5	Peaks	834.94				

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

TCDD		0.65-0.89				0.905-1.042			
320-322		DC	NL	Height	0.14	0.07	0.07		
				25:15	RO 2.50	0.56		0.922	
				25:34	0.83	0.42		0.933	
				25:46	RO 0.16	0.22		0.940	
D	D	SN	26:14	RO 1.38	1.19			0.957	
		DC	SN	27:05	RO 0.95	0.80		0.988	
A			27:21	RO 1.15	1.33	0.71	0.62	0.998	
AN			27:25	0.70	0.92	0.38	0.54	1.001	2378-TCDD AN J
M			27:32	RO 1.19	1.14	0.62	0.52	1.005	

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.
M				27:50	RO	1.32	2.20	1.25	0.95	1.016			
				27:58	RO	1.67	9.02	5.64	3.38	1.021			
	DC	SN		28:08	RO	0.23	1.06			1.027			
D	D	SN		28:23		0.77	0.85			1.036			
	DC	WH		28:34	RO	1.03	3.76			1.043			
	DC	WH		28:53	RO	1.22	1.98			1.054			
320-322				5 Peaks			14.61						
37C1-TCDD										0.927-1.073			
328	DC	NL				Height	0.14	0.14					
	DC	WL		25:19			1.40			0.924			
				25:46			2.25	2.25		0.940			
				26:03			519.27	519.27		0.951			
				26:29			2.27	2.27		0.967			
				27:18			5.60	5.60		0.996			
				27:25			58.90	58.90		1.001	37C1-TCDD	CLS	
				27:46			1,197.30	1,197.30		1.013			
				28:41			18.80	18.80		1.047			
328				7 Peaks			1,804.39						
13C12-TCDD						0.65-0.89				0.920-1.066			
332-334	DC	NL				Height	0.26	0.18	0.08				
				26:16	RO	2.09	2.01	1.36	0.65	0.959			
				27:13		0.82	707.26	317.75	389.51	0.993	13C12-1234-TCDD	RS1	
				27:24		0.80	594.06	263.16	330.90	1.000	13C12-2378-TCDD	IS1	
						Height	158.13	71.44	86.69				
				27:55	RO	1.76	1.49	0.95	0.54	1.019			
	DC	SN		28:01	RO	0.91	1.24			1.023			
332-334				4 Peaks			1,304.82						

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

PeCDF				1.32-1.78				0.911-1.036					
340-342	DC	NL		Height	0.14	0.06	0.08						
				28:31	1.54	43.85	26.61	17.24	0.913				
				28:41	1.51	53.29	32.03	21.26	0.918				
				28:54	1.42	86.73	50.96	35.77	0.925				
				29:18	1.50	28.72	17.21	11.51	0.938				
M				29:44	1.49	102.60	61.40	41.20	0.951				
				29:54	1.48	540.82	323.13	217.69	0.957				
				30:05	1.50	223.41	133.97	89.44	0.963				
				30:28	1.49	321.91	192.81	129.10	0.975				
M				30:35	1.44	6.65	3.92	2.73	1.000	12378-PeCDF	AN	J	
				30:44	RO	1.09	2.74	1.43	0.983				
				30:52	1.40	15.81	9.21	6.60	0.988				J
				31:10	1.37	5.96	3.44	2.52	0.997				J
				31:16	1.50	17.98	10.79	7.19	1.001	23478-PeCDF	AN	J	
				31:27	1.46	39.58	23.49	16.09	1.006				
	X			31:35	RO	1.15	5.17	2.76	2.41	1.011			
				31:52	1.36	13.09	7.55	5.54	1.020				J
	X			31:57	RO	1.11	8.54	4.49	4.05	1.022			
				32:05	1.49	83.21	49.82	33.39	1.027				

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.

			32:21	RO	0.81	1.43	0.64	0.79	1.035		
	DC	WH	32:40	RO	1.01	1.87			1.045		
340-342			19 Peaks			1,601.49					

13C12-PeCDF			1.32-1.78					0.807-1.127			
352-354	DC	NL	Height		0.14	0.06		0.08			
			28:32	RO	0.23	1.36	0.25	1.11	0.913		
			29:54	RO	0.24	6.53	1.25	5.28	0.957		
			30:12	RO	1.15	5.90	3.16	2.74	0.966		
			30:35		1.48	667.29	398.45	268.84	1.000	13C12-PeCDF	123 IS2
			Height		186.76	111.41		75.35			
			31:15		1.47	676.94	403.19	273.75	1.000	13C12-PeCDF	234 IS3
			Height		205.14	123.28		81.86			
			31:34	RO	1.03	3.47	1.76	1.71	1.010		
			31:43	RO	0.84	2.19	1.00	1.19	1.015		
			31:52	RO	0.75	9.43	4.03	5.40	1.020		
			31:59	RO	0.79	2.97	1.31	1.66	1.023		
			32:12	RO	1.03	15.33	7.78	7.55	1.030		
352-354			10 Peaks			1,391.41					

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

PeCDD			1.32-1.78					0.940-1.021			
356-358	DC	NL	Height		0.12	0.07		0.05			
	D	D	SN	30:03	RO	0.05	6.72		0.952		
				30:13	RO	0.99	1.47		0.957		
				30:31	RO	0.35	5.59		0.967		
				30:41	RO	1.02	3.44	1.74	1.70	0.972	
	D	D	SN	31:05	RO	3.73	2.13		0.985		
				31:35		1.33	2.82	1.61	1.21	1.001	12378-PeCDD AN J
				31:52	RO	2.06	8.55	5.76	2.79	1.010	
				31:58	RO	2.19	2.84	1.95	0.89	1.013	
	A			32:10	RO	0.93	9.71	4.69	5.02	1.019	
356-358			5 Peaks			27.36					

13C12-PeCDD			1.32-1.78					0.735-1.052			
368-370	DC	NL	Height		0.13	0.07		0.06			
				30:31		1.33	1.19	0.68	0.51	0.967	
				30:39	RO	1.03	2.70	1.37	1.33	0.971	
				31:34		1.48	471.47	281.34	190.18	1.000	13C12-PeCDD 123 IS4
			Height		139.05	83.34		55.71			
				32:02	RO	0.64	0.82	0.32	0.50	1.015	
368-370			4 Peaks			476.18					

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

HxCDF			1.05-1.43					0.929-1.007			
374-376	DC	NL	Height		0.43	0.23		0.20			
	D	D	WL	32:53		1.34	5.08		0.930		
			X	33:03		1.27	72.17	40.39	31.78	0.935	
				33:09		1.26	116.49	64.92	51.57	0.938	
				33:16		1.26	60.07	33.51	26.56	0.941	

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.
				33:25		1.24	16.62	9.20	7.42	0.945			J
				33:36		1.25	229.17	127.53	101.64	0.950			
				33:46		1.26	10.69	5.97	4.72	0.955			J
NM				33:55		1.26	188.40	105.00	83.40	0.999			
AN				33:59		1.28	46.80	26.30	20.50	1.000	123478-HxCDF	AN	
				34:04		1.26	20.88	11.65	9.23	1.000	123678-HxCDF	AN	J
				34:21	RO	1.55	3.08	1.87	1.21	0.972			
				34:34		1.26	17.71	9.88	7.83	1.000	234678-HxCDF	AN	J
DC	SN			35:04	RO	0.62	0.86			0.992			
	X			35:11	RO	0.95	2.42	1.18	1.24	0.995			
				35:16		1.27	3.36	1.88	1.48	0.998			J
				35:26		1.23	6.78	3.74	3.04	1.002			J
DC	SN			35:32	RO	0.18	0.47			1.005			
DC	WH			35:38	RO	0.82	0.20			1.008			
374-376				14 Peaks			794.64						

13C12-HxCDF				0.43-0.59					0.879-1.105				
384-386	DC	NL		Height		0.41	0.12	0.29					
				33:02		0.52	1.86	0.64	1.22	0.934			
				33:09		0.55	3.20	1.14	2.06	0.938			
				33:58		0.52	696.71	237.03	459.68	1.000	13C12-HxCDF	478	IS5
				Height			215.57	73.89	141.68				
				34:04		0.52	741.77	252.84	488.93	1.000	13C12-HxCDF	678	IS6
				Height			218.09	74.58	143.51				
				34:22	RO	0.66	1.86	0.74	1.12	0.972			
				34:34		0.51	732.62	247.24	485.38	1.000	13C12-HxCDF	234	IS7
				Height			223.70	75.59	148.11				
				34:46	RO	0.30	3.06	0.71	2.35	0.983			
DC	SN			35:06	RO	2.87	0.58			0.993			
				35:21		0.51	591.49	199.86	391.63	1.000	13C12-HxCDF	789	IS8
				Height			160.59	54.60	105.99				
				35:37	RO	1.89	1.85	1.21	0.64	1.008			
DC	SN			35:43		0.49	1.86			1.010			
384-386				9 Peaks			2,774.42						

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

HxCDD				1.05-1.43					0.959-1.013				
390-392	DC	NL		Height		0.53	0.28	0.25					
				33:30	RO	0.99	12.48	6.21	6.27	0.964			
				33:56		1.05	3.13	1.60	1.53	0.976			J
M				34:09	RO	0.90	29.70	14.10	15.60	0.983			
	DC	SN		34:19	RO	0.89	1.25			0.988			
	DC	SN		34:34	RO	2.60	0.36			0.997	123478-HxCDD	AN	
M				34:47		1.16	8.21	4.41	3.80	1.001	123678-HxCDD	AN	J
M				35:05	RO	1.00	4.85	2.43	2.42	1.010	123789-HxCDD	AN	
	DC	WH		35:17	RO	0.97	7.03			1.015			
	DC	WH		35:23	RO	0.53	2.68			1.018			
	DC	WH		35:35	RO	0.73	6.45			1.024			
390-392				5 Peaks			58.37						

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-HxCDD		1.05-1.43			0.983-1.041		
402-404	DC NL	Height	0.32	0.16	0.16		
		34:40	1.21	462.52	253.14	209.38	1.000 13C12-HxCDD 478 IS9
		Height	149.41	81.65	67.76		
		34:45	1.21	541.31	296.76	244.55	1.000 13C12-HxCDD 678 IS10
		Height	155.65	85.00	70.65		
		35:05	1.19	601.97	327.65	274.32	1.012 13C12-HxCDD 789 RS2
		35:20 RO	0.29	8.05	1.83	6.22	1.019
		35:35 RO	3.56	1.23	0.96	0.27	1.026
402-404	5 Peaks		1,615.08				

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

HpCDF		0.88-1.20			0.955-1.005		
408-410	DC NL	Height	0.21	0.11	0.10		
	DC WL	36:50 RO	1.22	2.18		0.954	
		37:02	1.07	393.65	203.64	190.01	1.000 1234678-HpCDF AN
		37:18	0.88	3.04	1.42	1.62	0.966 J
		37:28	1.06	167.78	86.21	81.57	0.970
	DC SN	37:53 RO	2.15	0.63		0.981	
		38:37	0.99	7.94	3.96	3.98	1.000 1234789-HpCDF AN J
408-410	4 Peaks		572.41				

13C12-HpCDF		0.37-0.51			0.856-1.141		
418-420	DC NL	Height	0.26	0.12	0.14		
		37:02	0.45	474.30	147.63	326.67	1.000 13C12-HpCDF 678 IS11
		Height	132.80	40.32	92.48		
	DC SN	37:26 RO	0.13	0.69		0.969	
		38:37	0.44	319.02	97.33	221.69	1.000 13C12-HpCDF 789 IS12
		Height	73.79	22.67	51.12		
		39:06	0.45	0.80	0.25	0.55	1.013
418-420	3 Peaks		794.12				

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

HpCDD		0.88-1.20			0.976-1.005		
424-426	DC NL	Height	0.25	0.13	0.12		
		37:20	1.07	29.31	15.17	14.14	0.980
		38:07	1.04	33.82	17.25	16.57	1.000 1234678-HpCDD AN
424-426	2 Peaks		63.13				

13C12-HpCDD		0.88-1.20			0.868-1.078		
436-438	DC NL	Height	0.50	0.29	0.21		
	DC SN	37:20 RO	1.34	1.64		0.980	
		38:06	1.02	396.04	200.08	195.96	1.000 13C12-HpCDD 678 IS13
		Height	100.08	49.60	50.48		
436-438	1 Peak		396.04				

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

OCDF		0.76-1.02			0.952-1.048		
442-444	DC NL	Height	0.21	0.10	0.11		

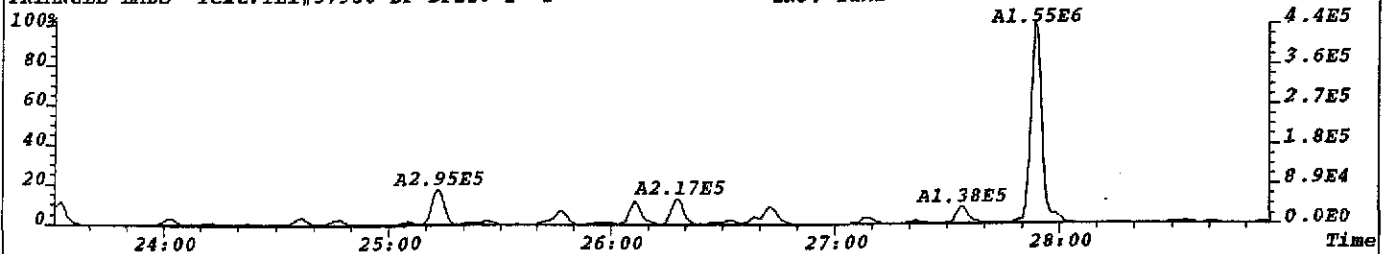
Compound/ M_Z....	QC	Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
	DC	WL			36:42		0.82	2.44			0.876			
					42:07		0.90	80.39	38.13	42.26	1.005	OCDF	AN	
442-444			1	Peak				80.39						
OCDD							0.76-1.02				0.952-1.048			
458-460	DC	NL					Height	0.17	0.08	0.09				
			N		41:54		0.85	475.79	218.80	256.99	1.000	OCDD	AN	
458-460			1	Peak				475.79						
13C12-OCDD							0.76-1.02				0.996-1.004			
470-472	DC	NL					Height	0.28	0.17	0.11				
					41:54		0.85	611.29	280.26	331.03	1.000	13C12-OCDD	IS14	
							Height	126.41	58.12	68.29				
	DC	WH		RO	42:15		2.26	1.14			1.008			
	DC	WH		RO	42:19		1.53	0.91			1.010			
470-472			1	Peak				611.29						

Column Description..... "Why" Code Description..... QC Log Desc.....

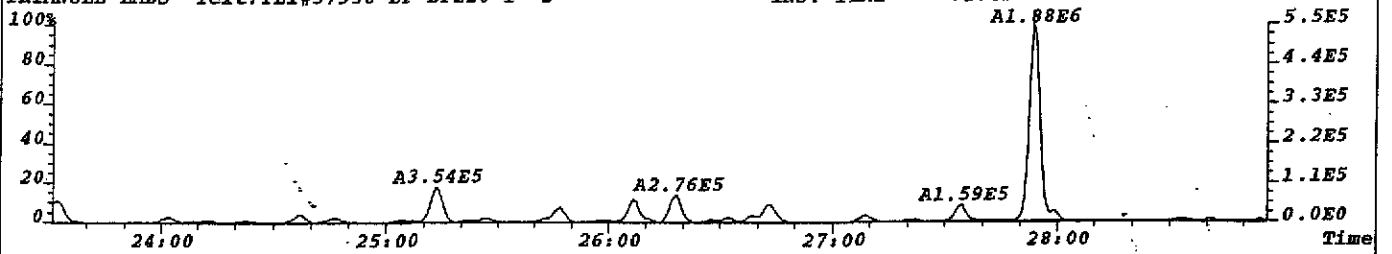
M_Z -Nominal Ion Mass(es) WL-Below Retention Time Window A-Peak Added
 ..RT. -Retention Time (mm:ss) WH-Above Retention Time Window K-Peak Kept
 Ratio -Ratio of M/M+2 Ions SN-Below Signal to Noise Level D-Peak Deleted
 OK -RO=Ratio Outside Limits <M-Below Method Detection Limit T-Time Changed
 Rel.RT-Relative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

*** End of Report ***

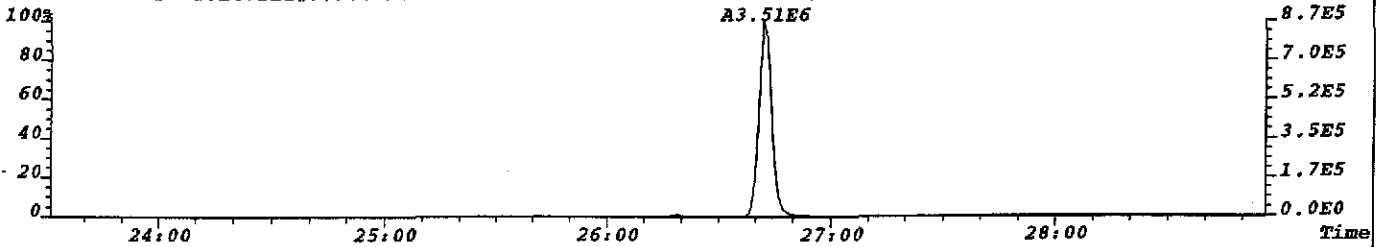
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:115
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,460.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



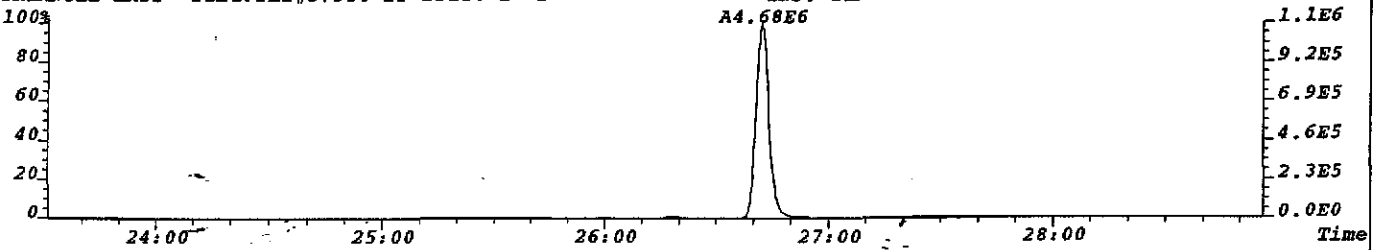
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:91
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



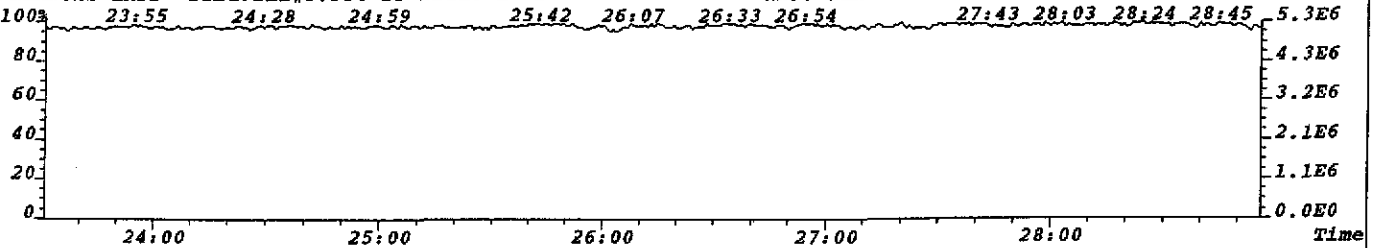
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:83
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,332.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



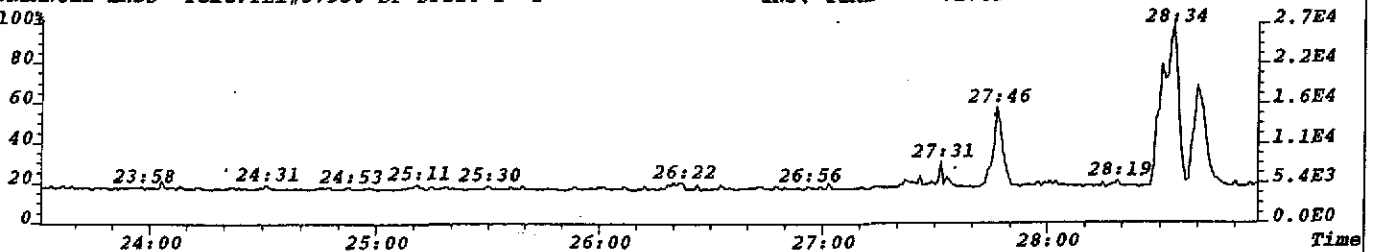
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:113
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,452.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



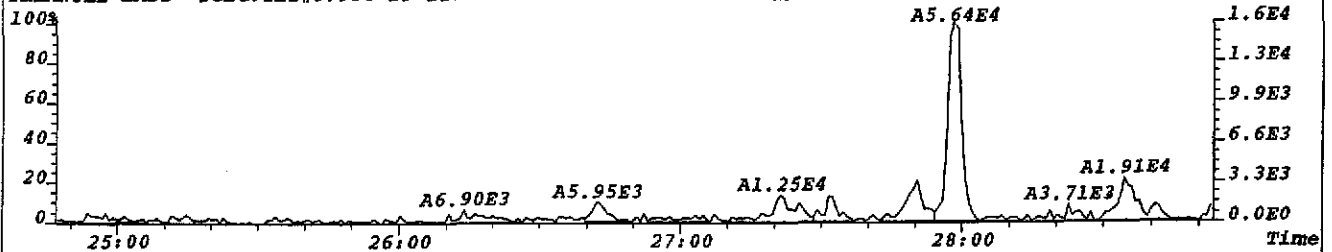
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



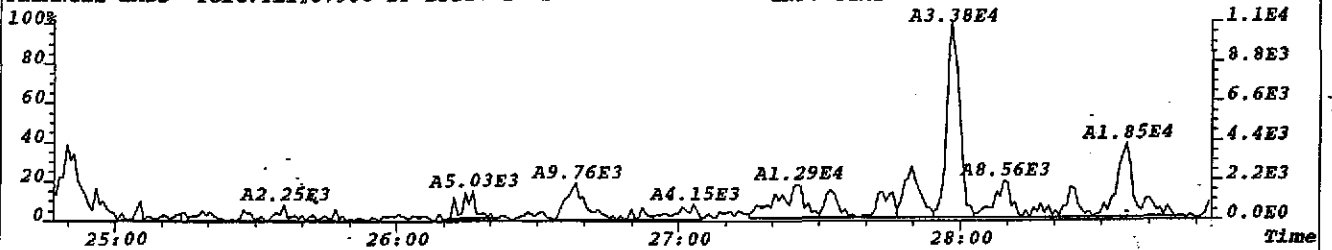
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



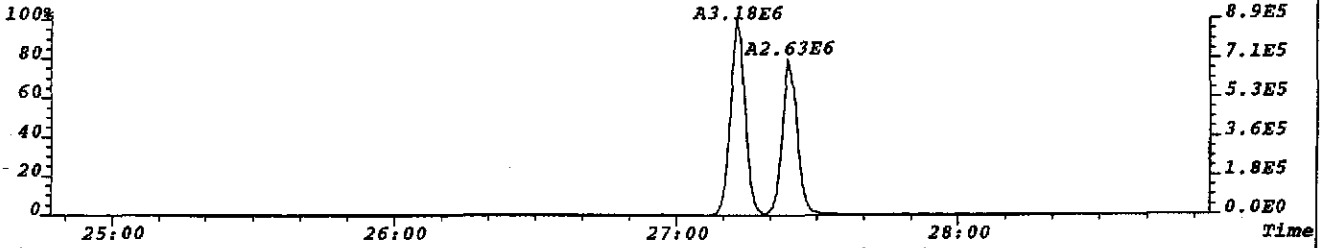
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:86
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,344.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



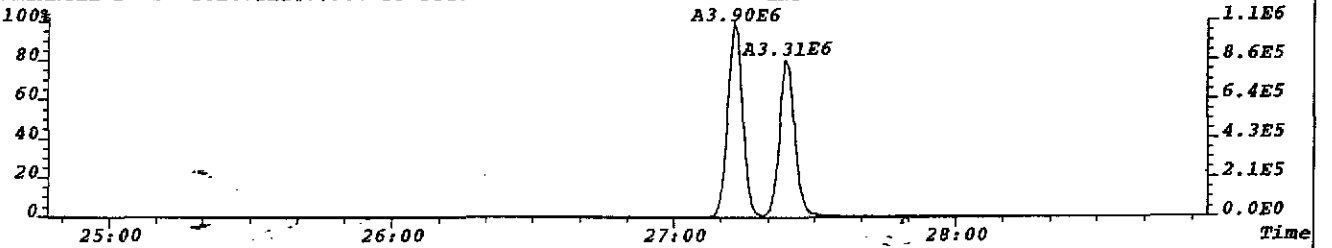
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:82
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



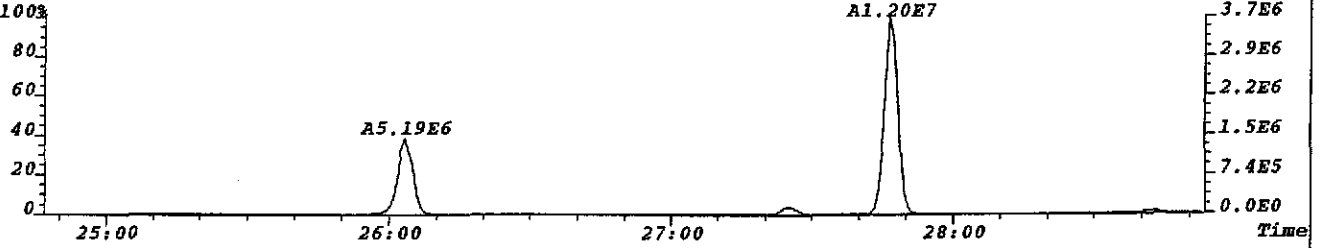
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:231
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,324.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



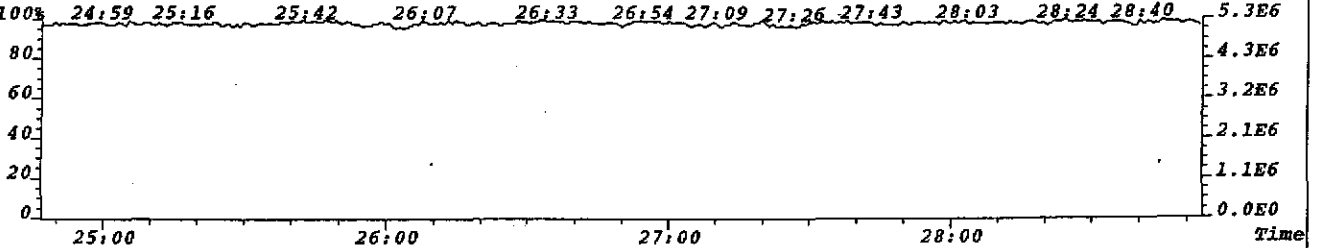
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:97
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



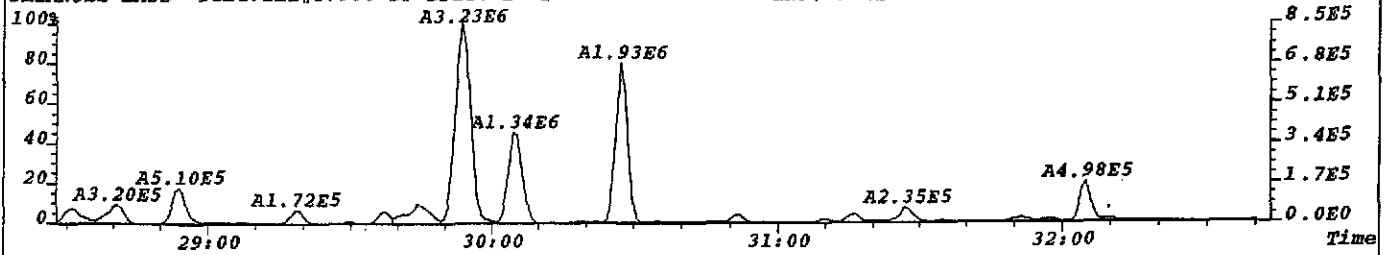
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:172
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,688.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



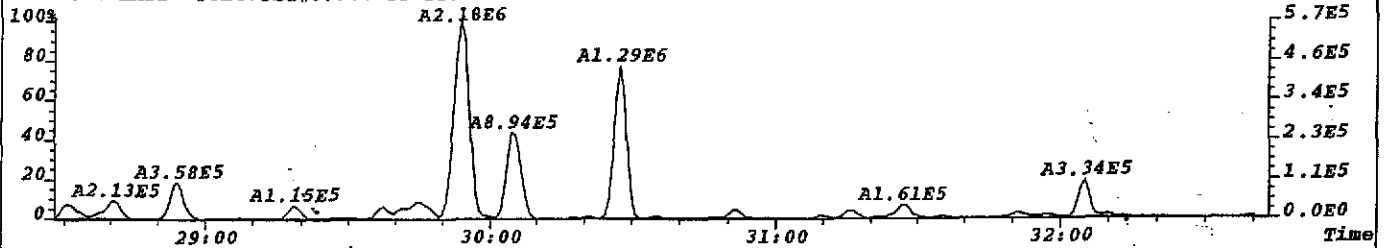
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



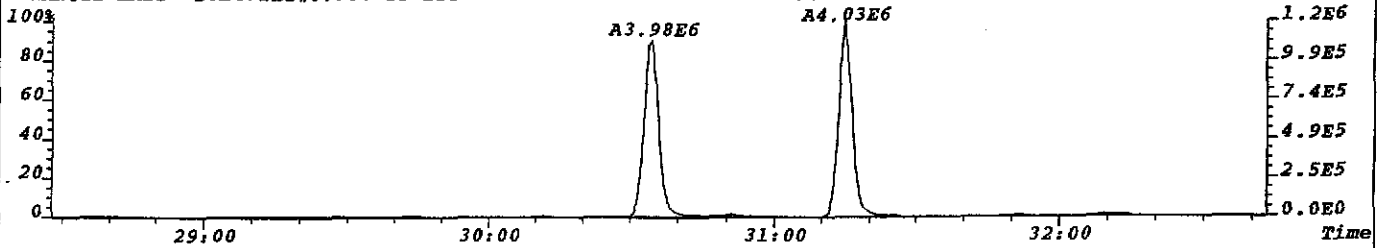
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:77
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



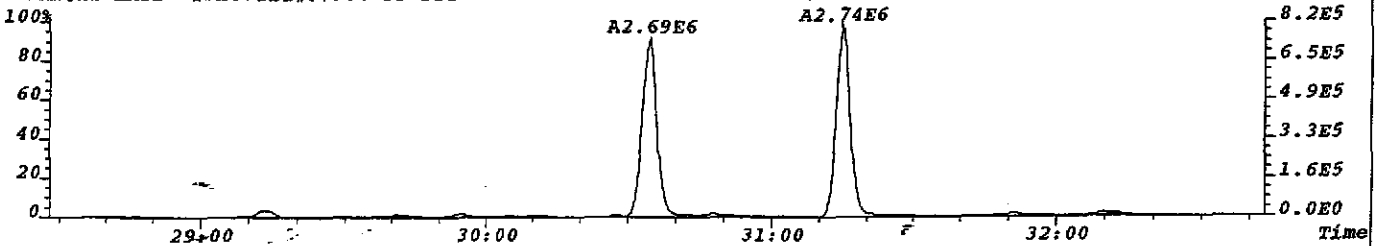
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:106
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,424.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



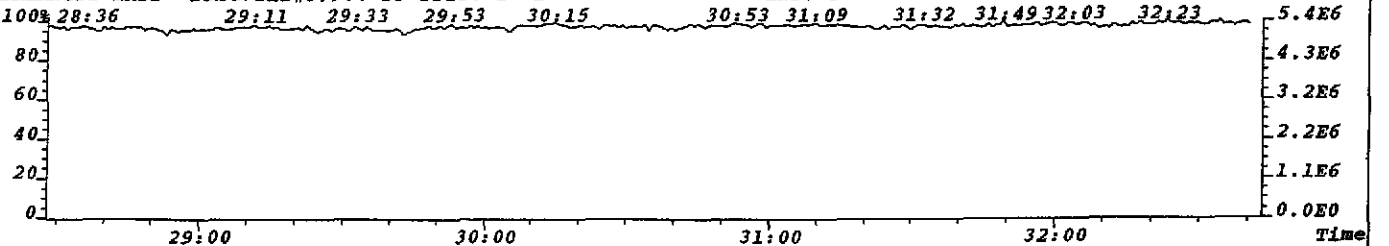
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:70
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,280.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



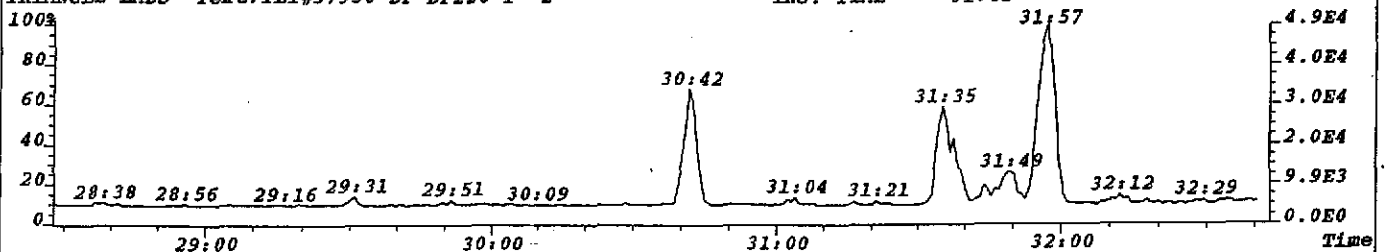
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:97
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



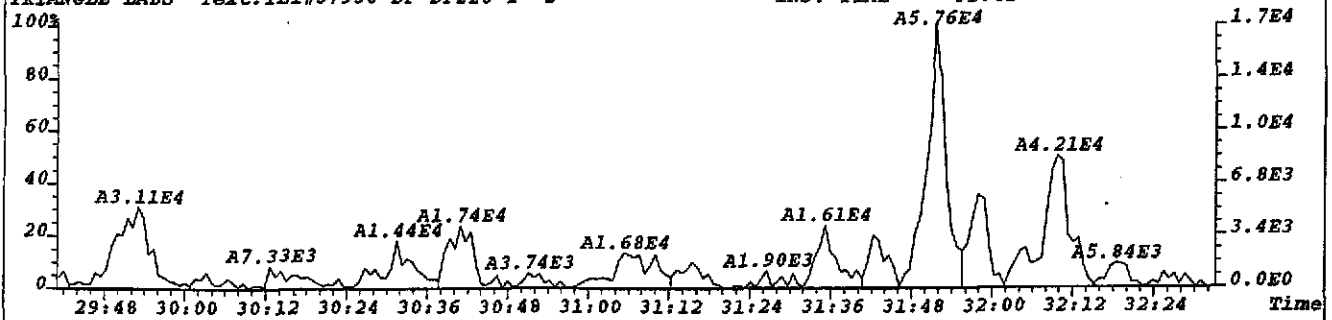
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



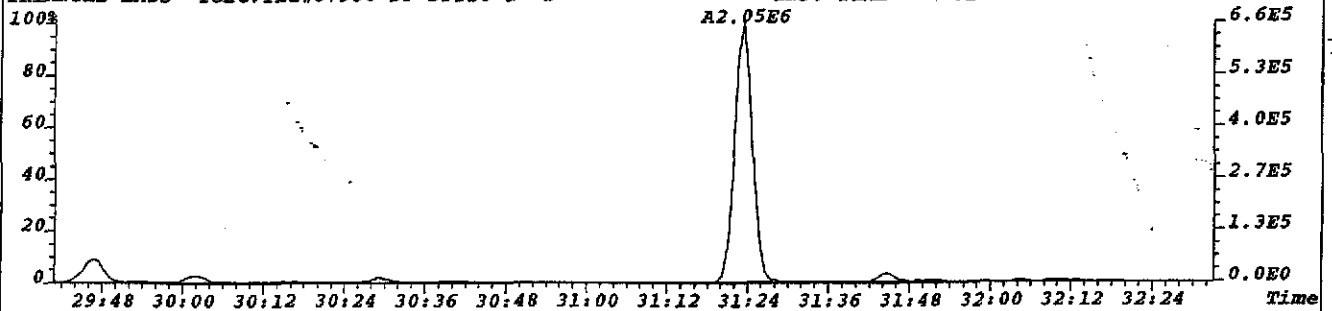
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



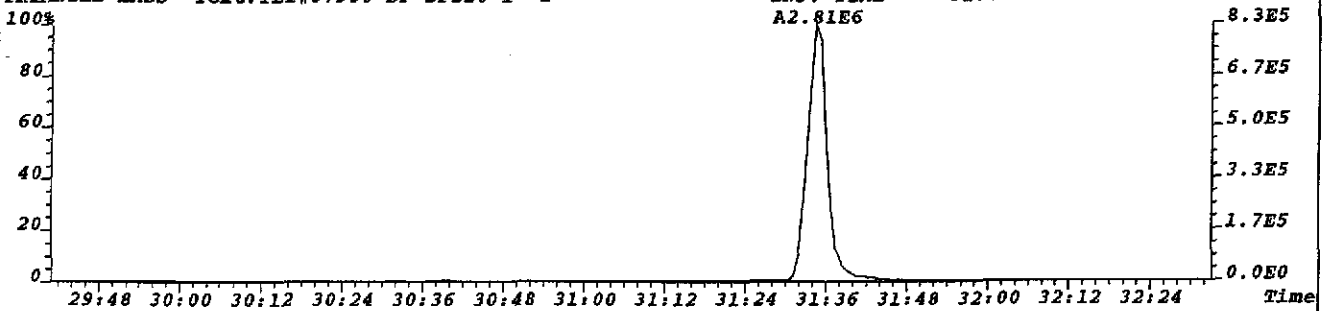
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:88
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,352.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



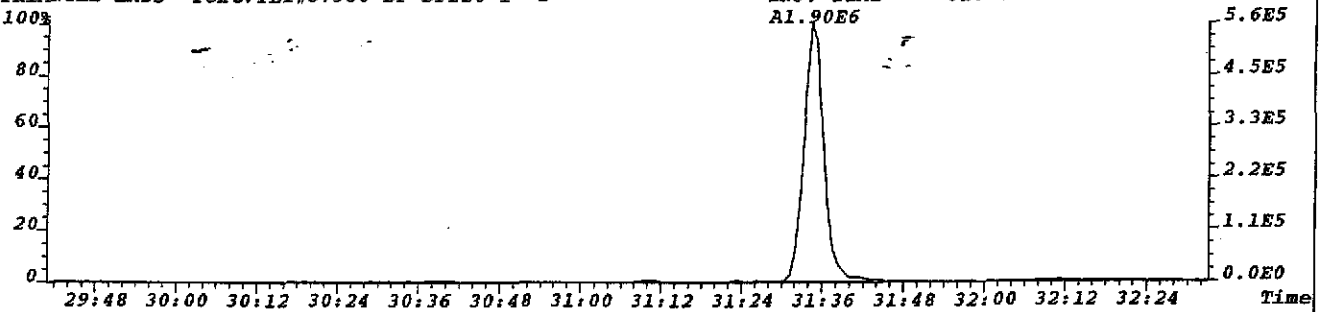
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:68
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,272.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



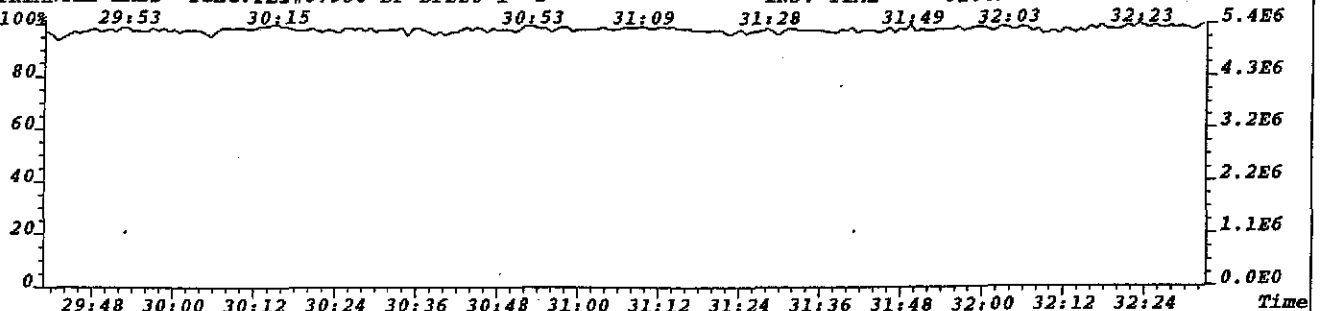
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:93
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,372.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



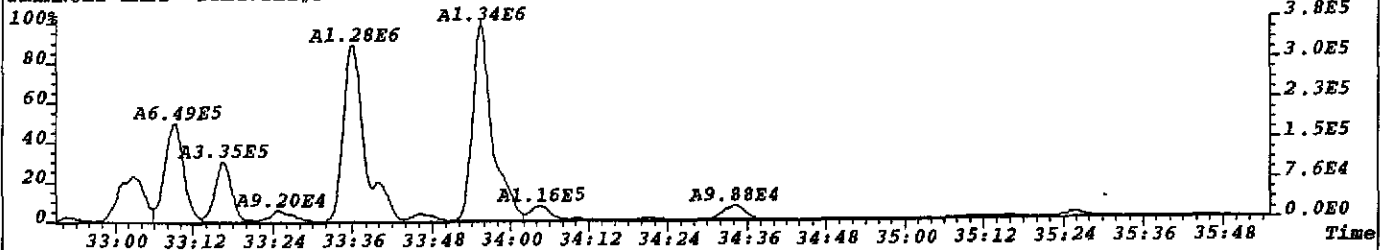
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:75
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,300.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



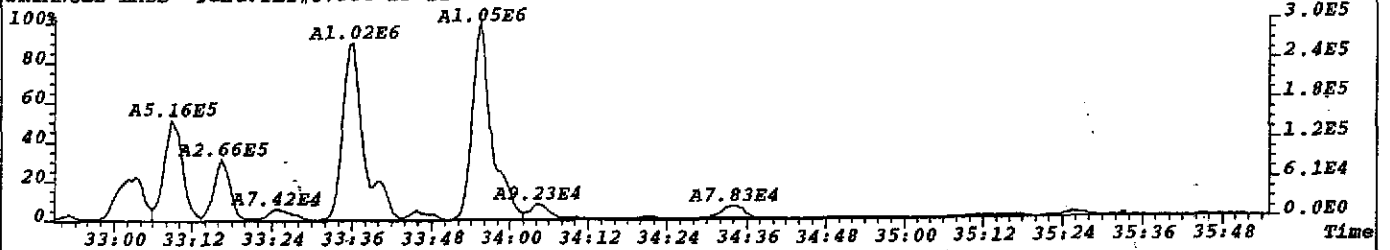
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



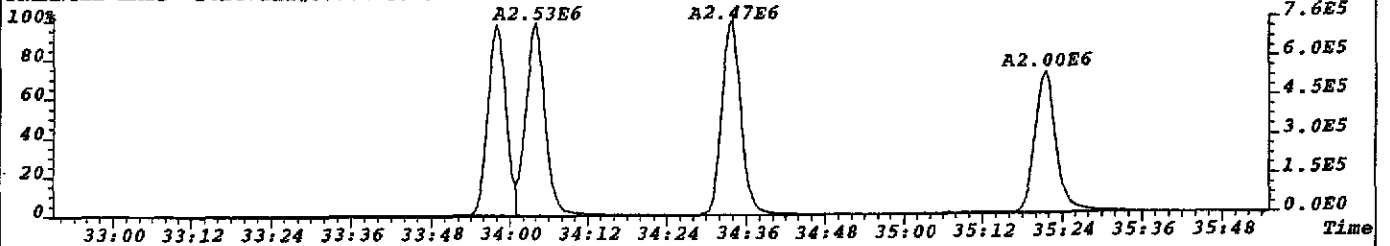
File:T023765 #1-386 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:286
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1144.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



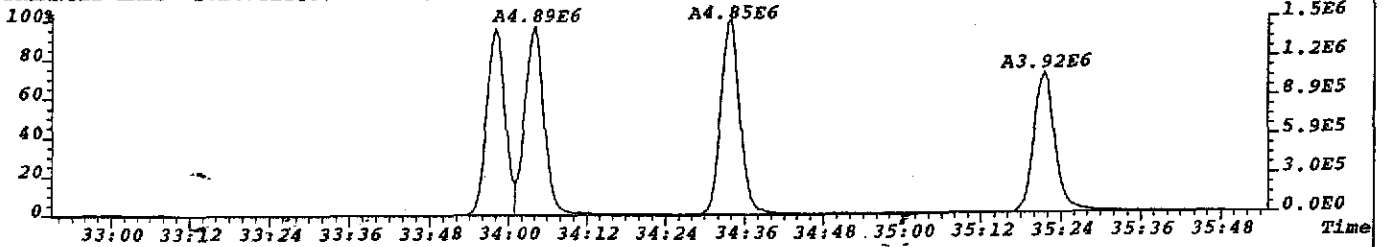
File:T023765 #1-386 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:256
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1024.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



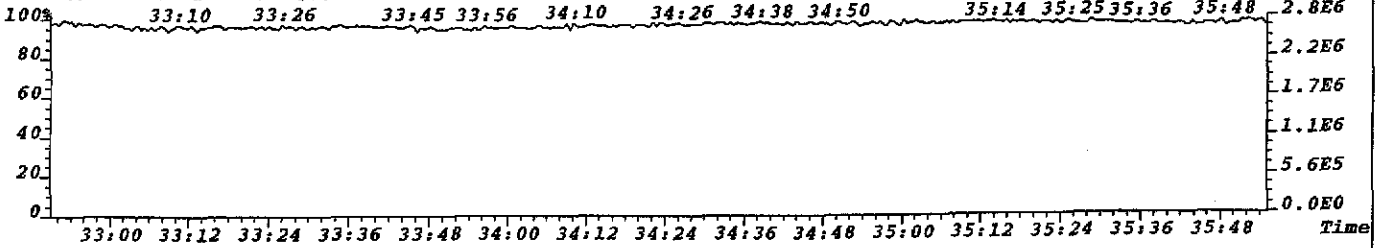
File:T023765 #1-386 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:147
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,588.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



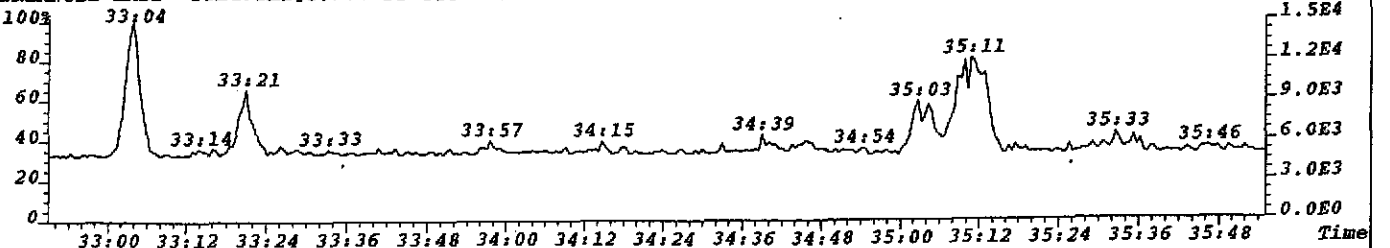
File:T023765 #1-386 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:363
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1452.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



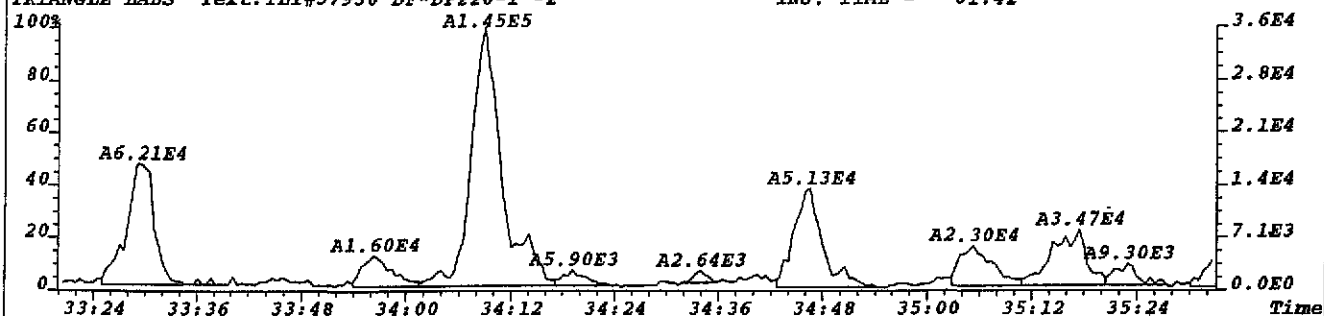
File:T023765 #1-386 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



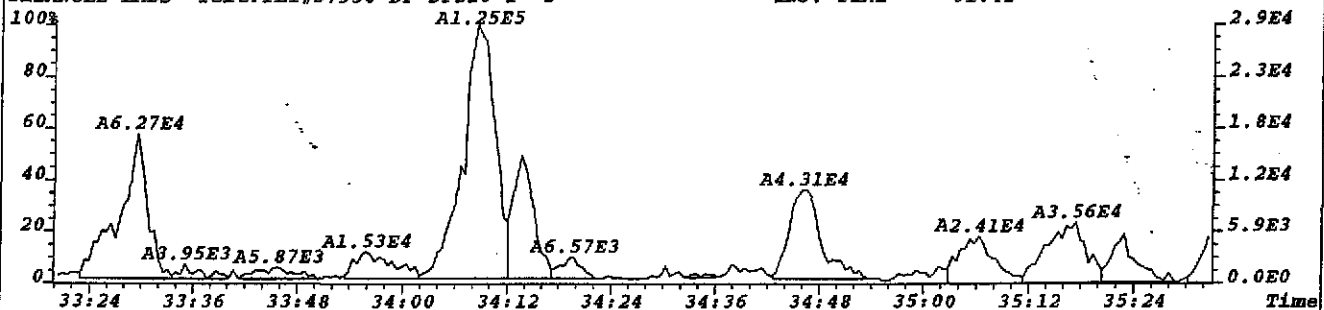
File:T023765 #1-386 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



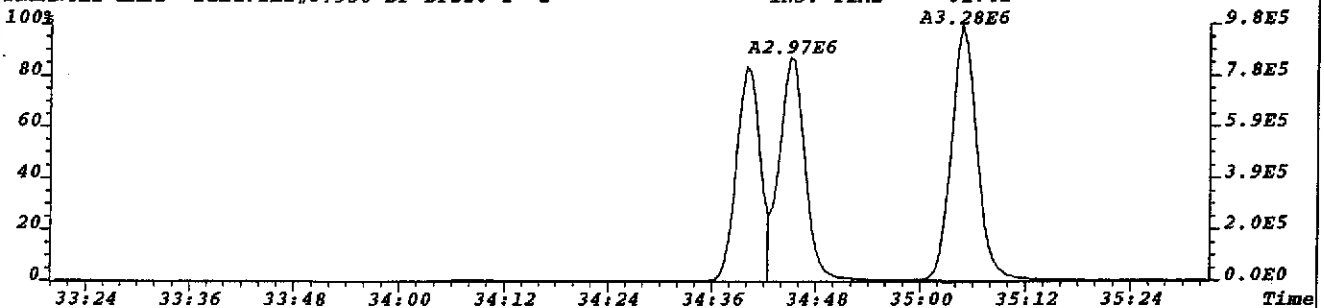
File:T023765 #1-386 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:353
 389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1412.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



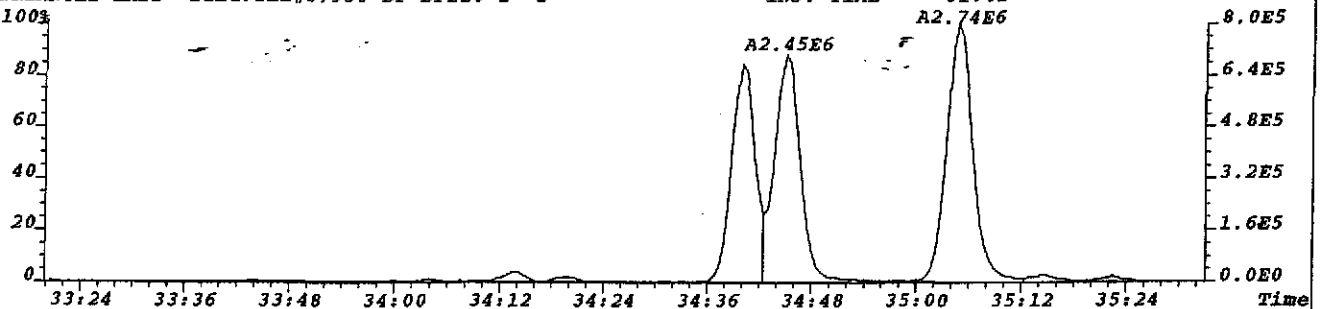
File:T023765 #1-386 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:318
 391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1272.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



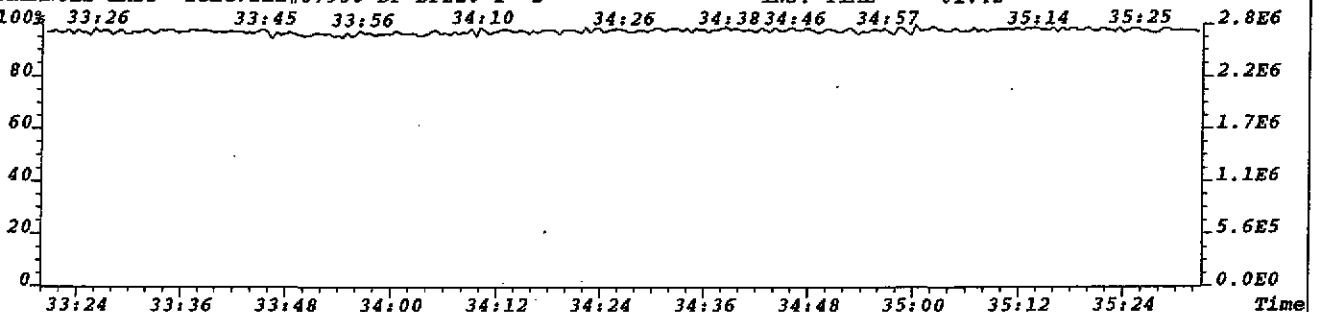
File:T023765 #1-386 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:201
 401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,804.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



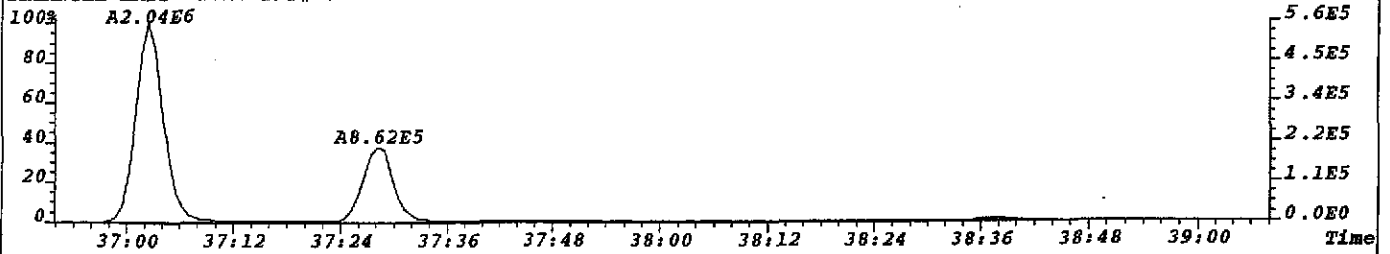
File:T023765 #1-386 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:197
 403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,788.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



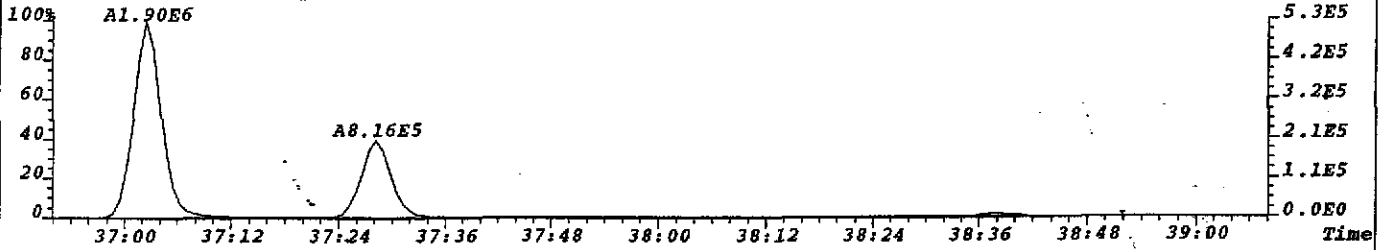
File:T023765 #1-386 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T
 392.9760 F:3 Exp:NDB5US
 TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



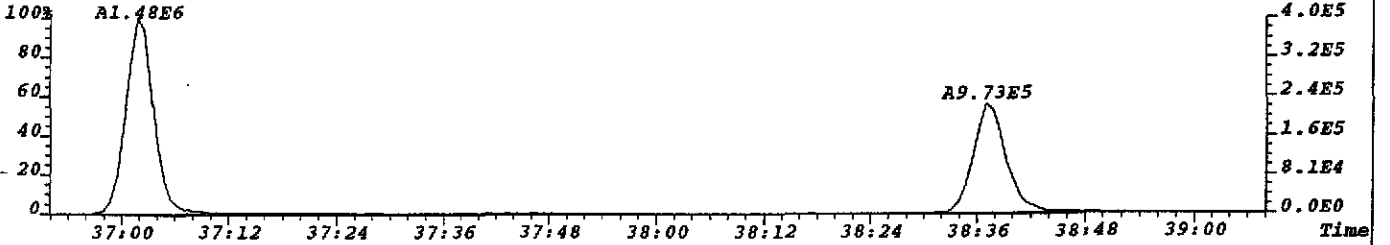
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:143
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,572.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



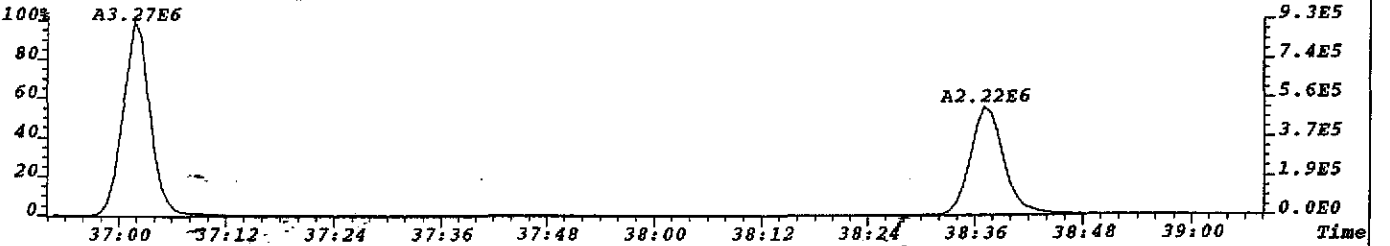
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:119
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,476.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



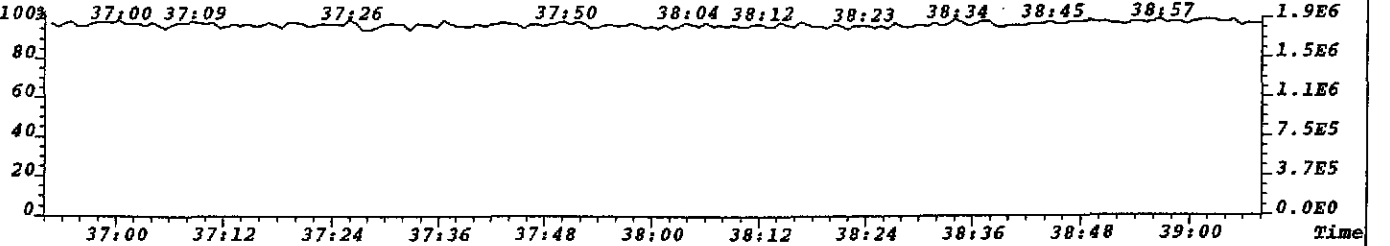
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:155
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,620.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



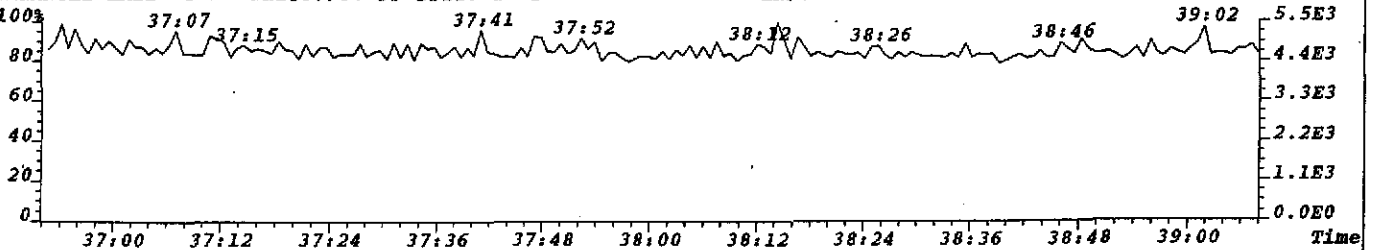
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:171
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,684.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



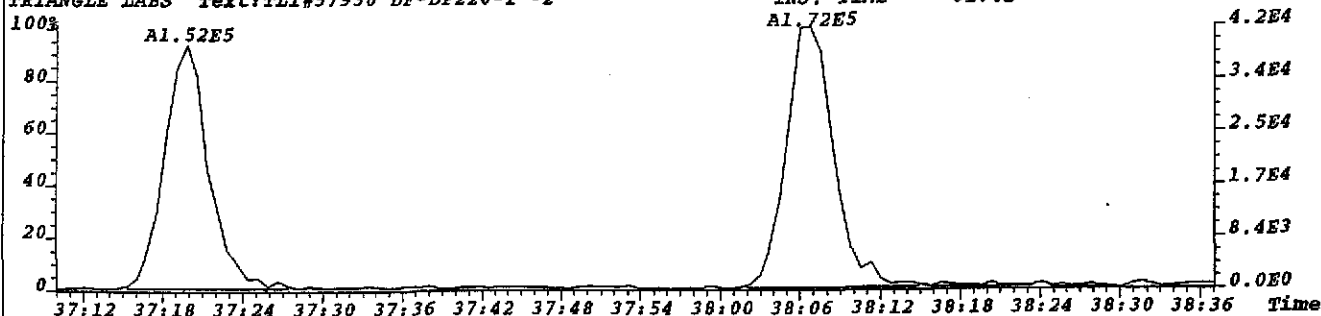
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



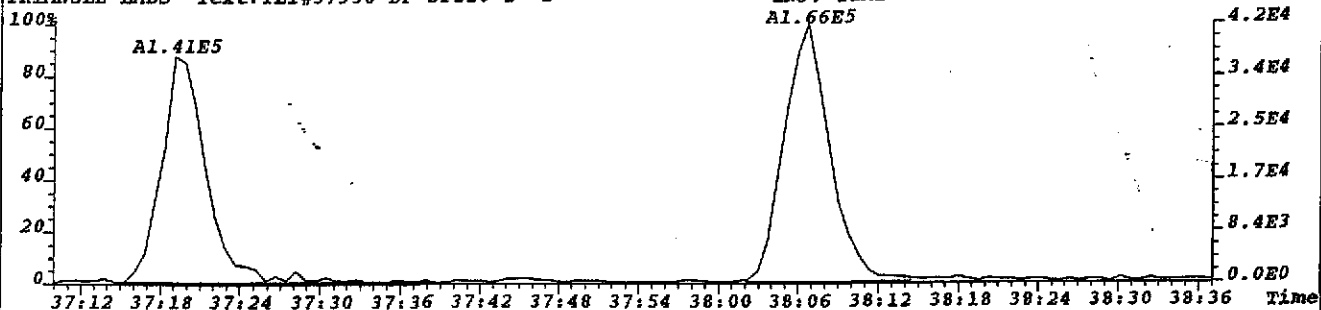
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



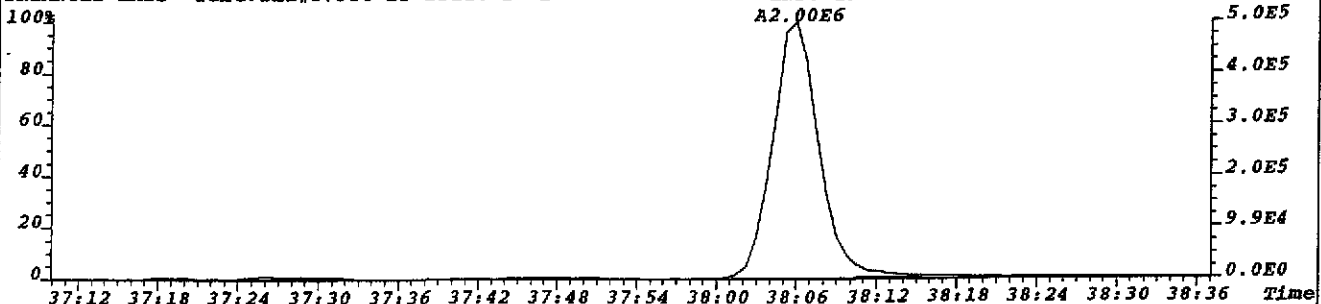
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:164
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,656.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



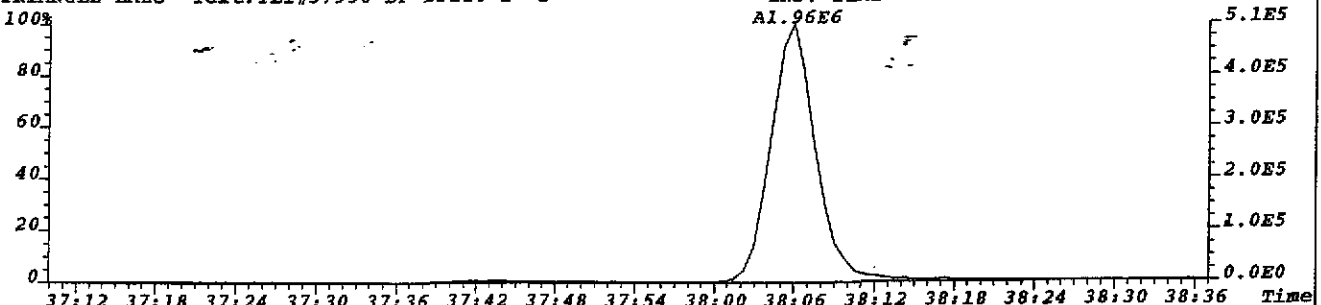
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:154
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,616.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



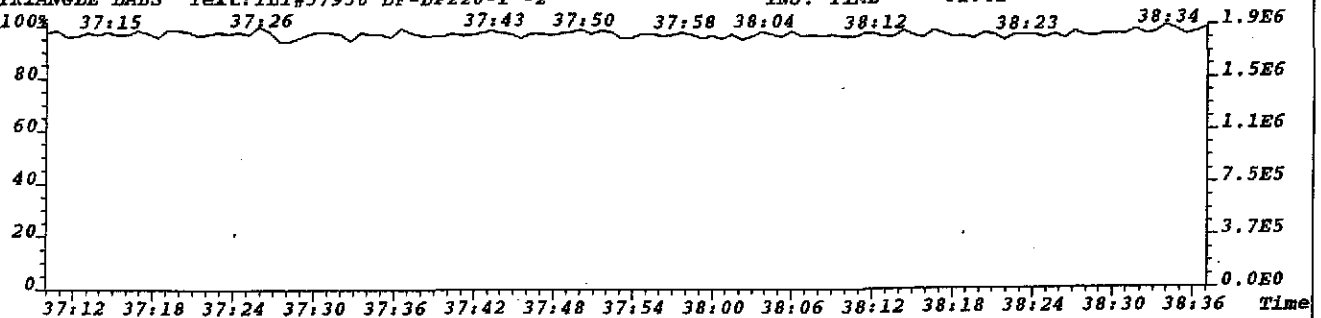
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:362
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1448.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



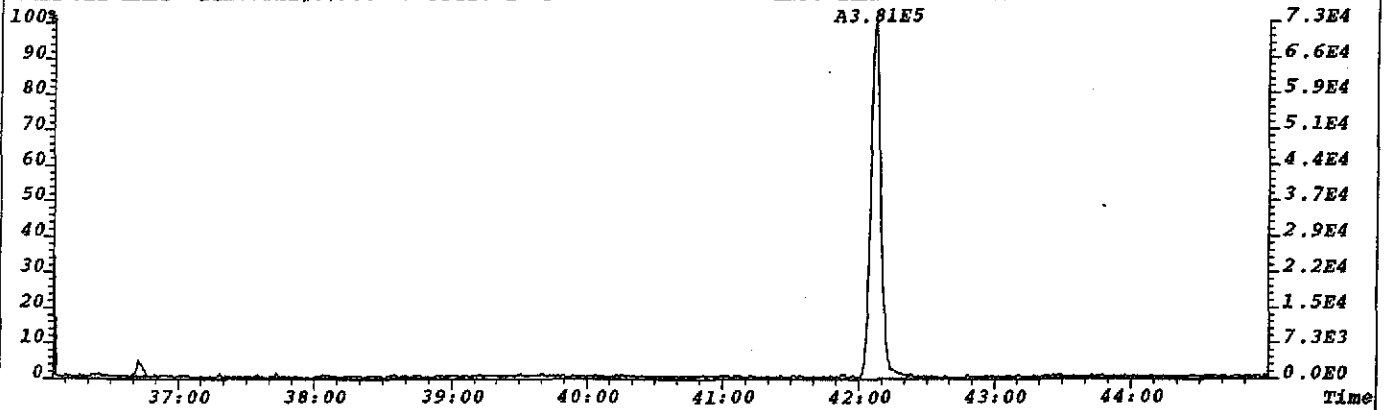
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:260
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1040.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



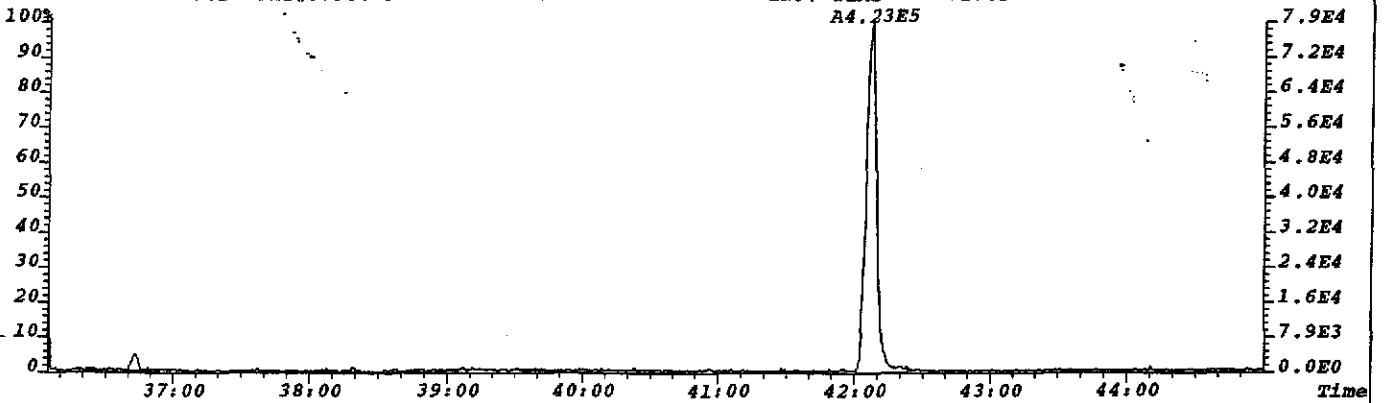
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



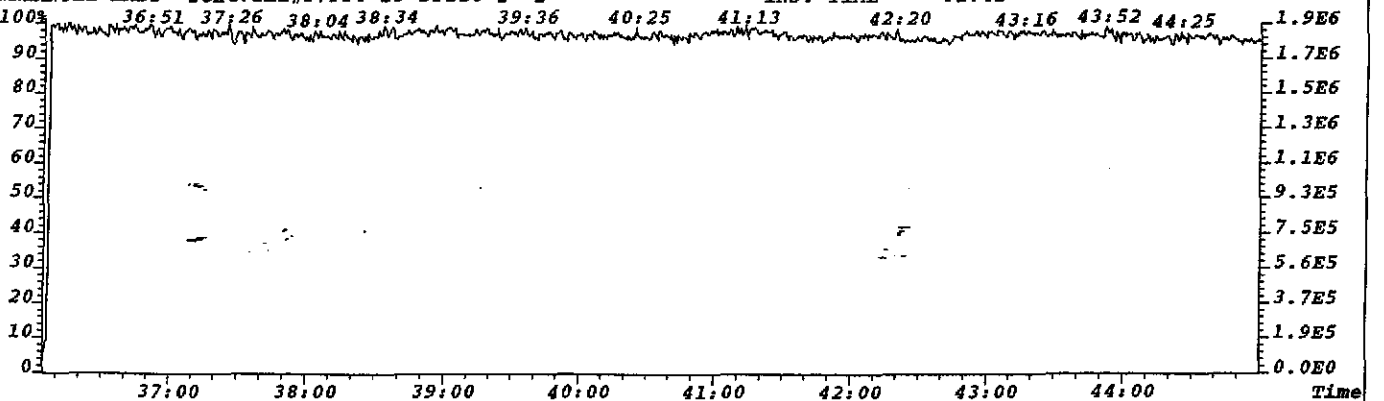
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:129
441.7428 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,516.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



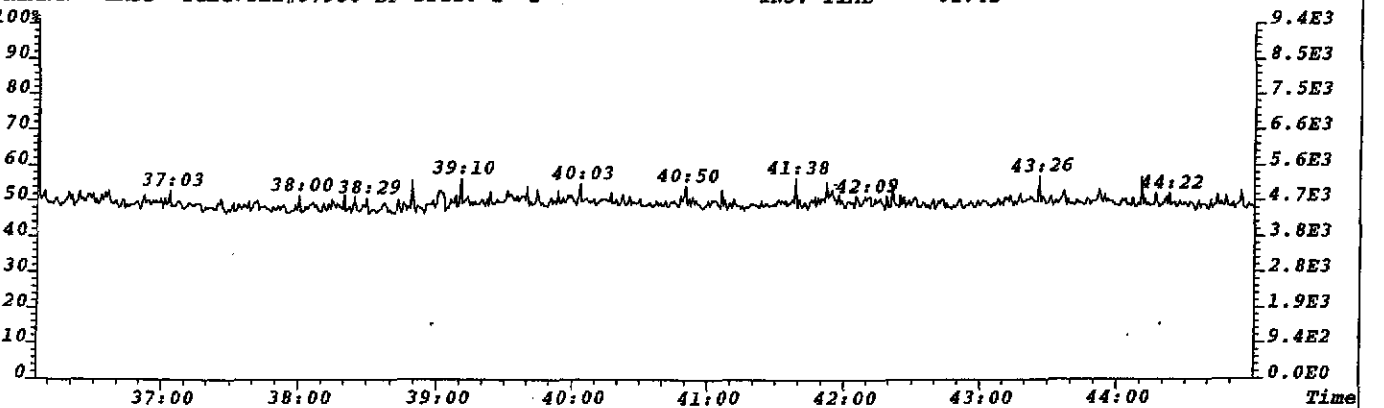
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:132
443.7399 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,528.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



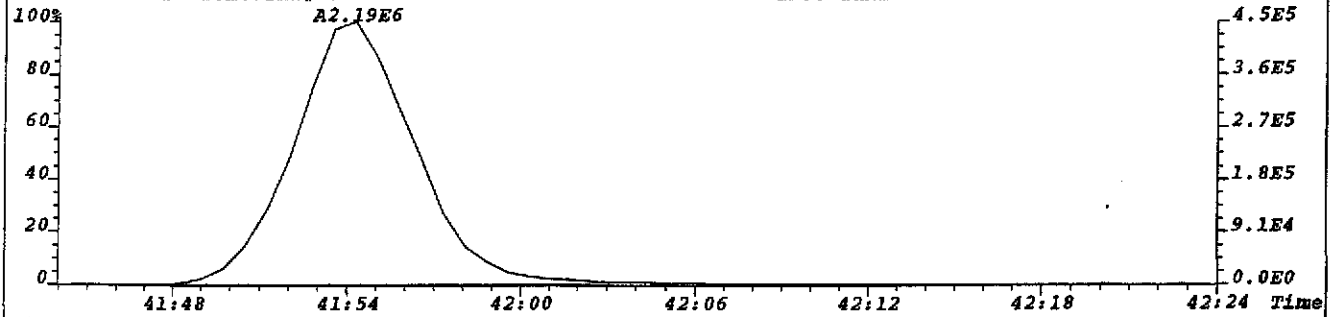
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



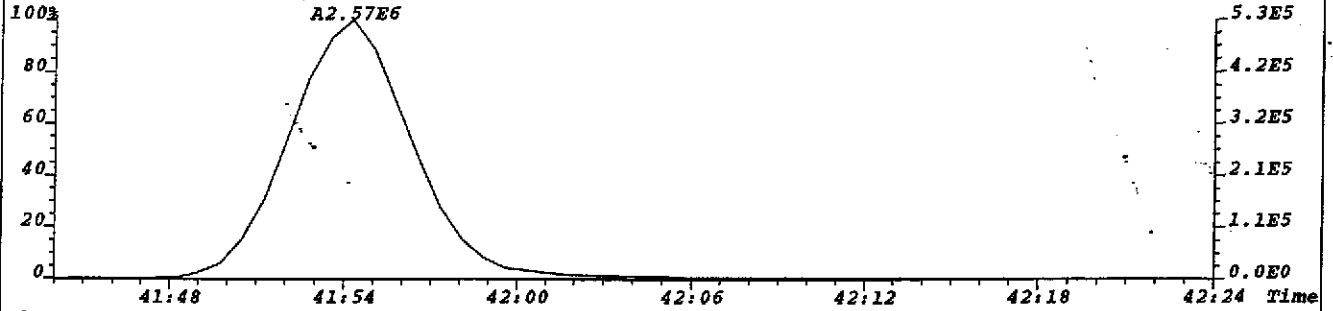
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



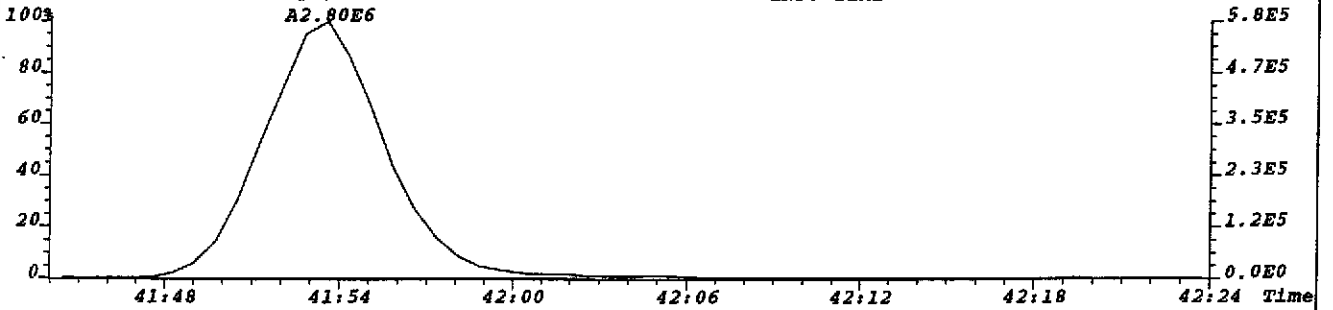
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:95
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,380.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



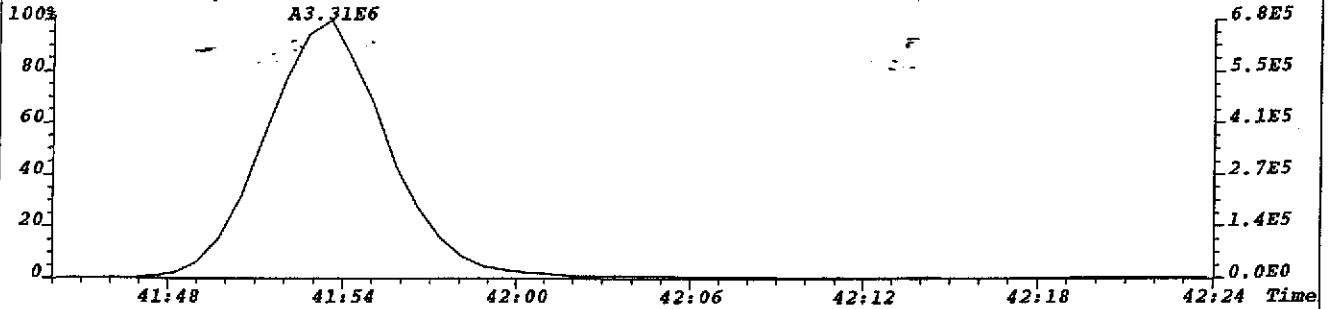
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:113
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,452.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



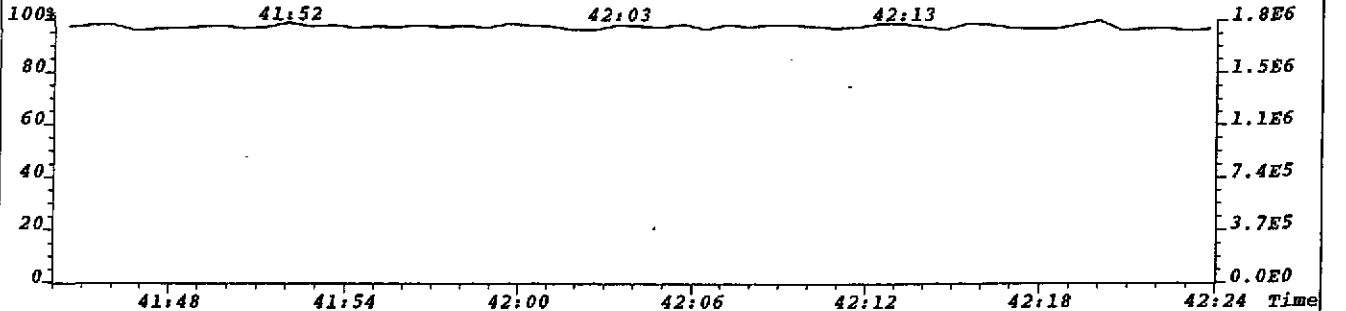
File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:207
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,828.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42

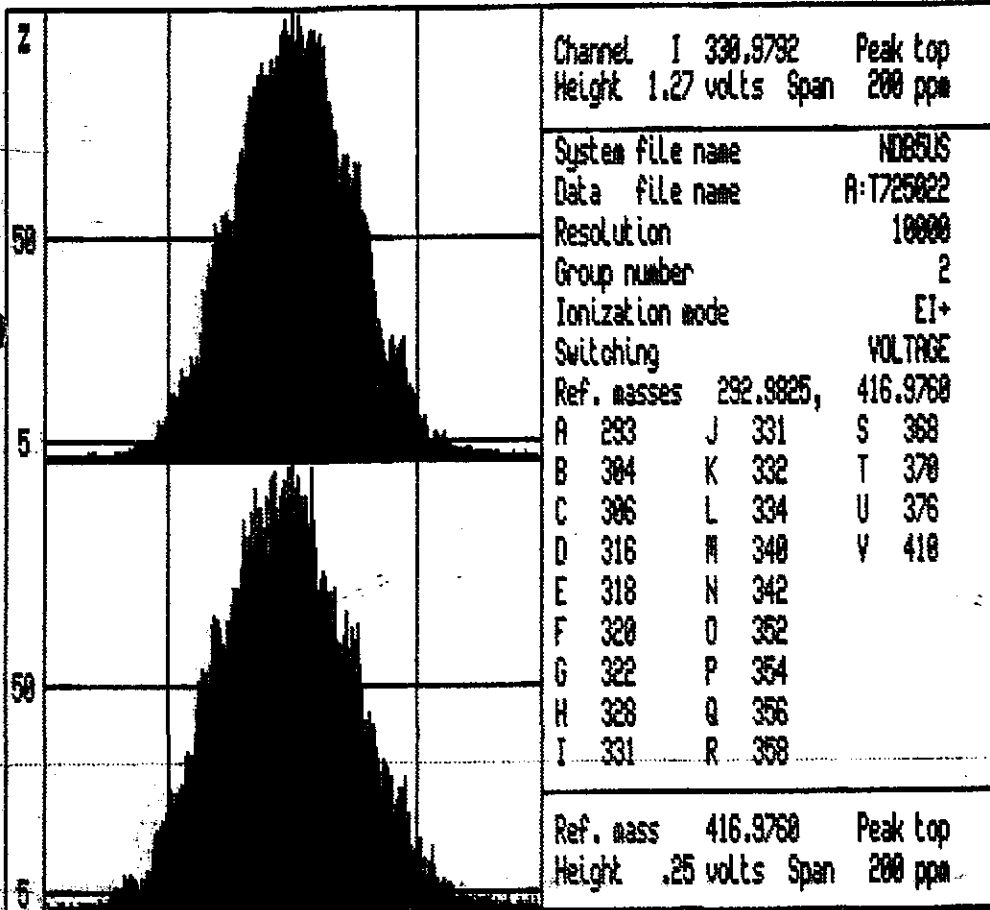


File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T Noise:141
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,564.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42



File:T023765 #1-708 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 01:42





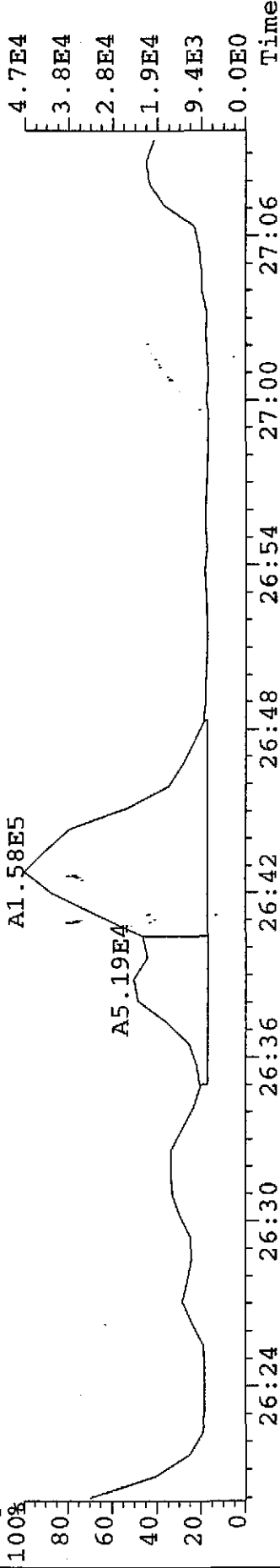
CEM 7126102

File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T

303.9016 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-1'-2'

INJ. TIME = 01:42 File Text:TLI#57930 DF-->

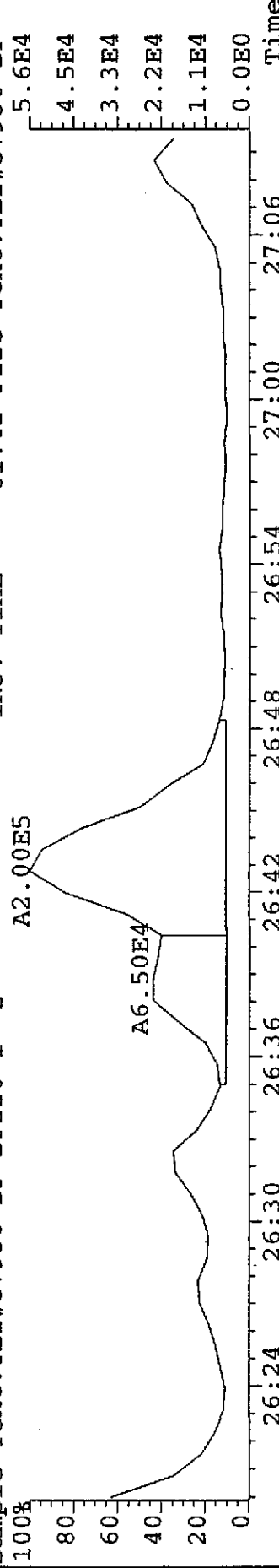


File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T

305.8987 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-1'-2'

INJ. TIME = 01:42 File Text:TLI#57930 DF-->

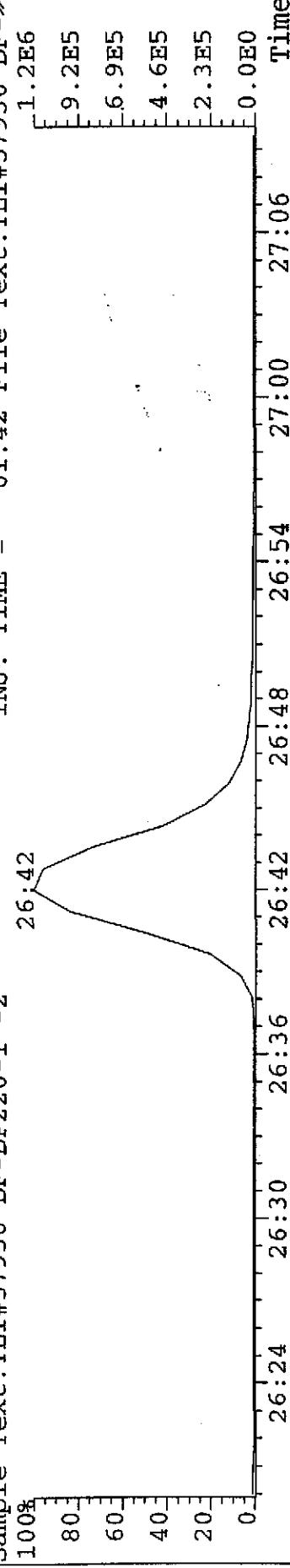


File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T

317.9389 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-1'-2'

INJ. TIME = 01:42 File Text:TLI#57930 DF-->



CEM 7120102

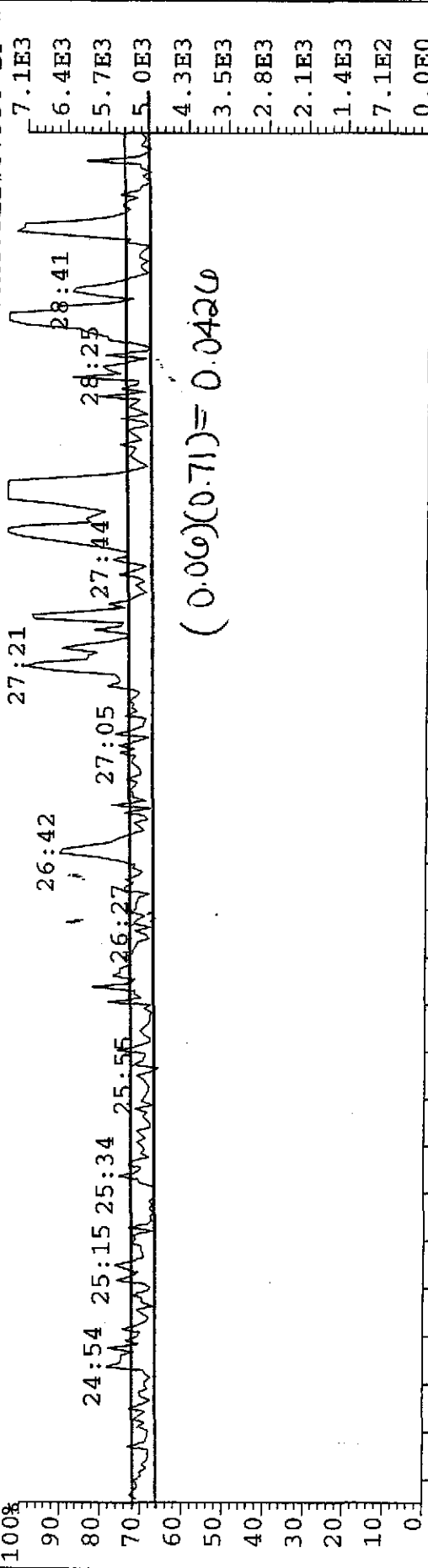
$N = 0.0426 + 0.034 = 0.0766$

File: T023765 #1-924 Acq: 26-JUL-2002 01:40:15 EI+ Voltage SIR 70T

319.8965 F:2 Exp: NDB5US

Sample Text: TLI#57930 DF-DP220-1'-2'

INJ. TIME = 01:42 File Text: TLI#57930 DF->

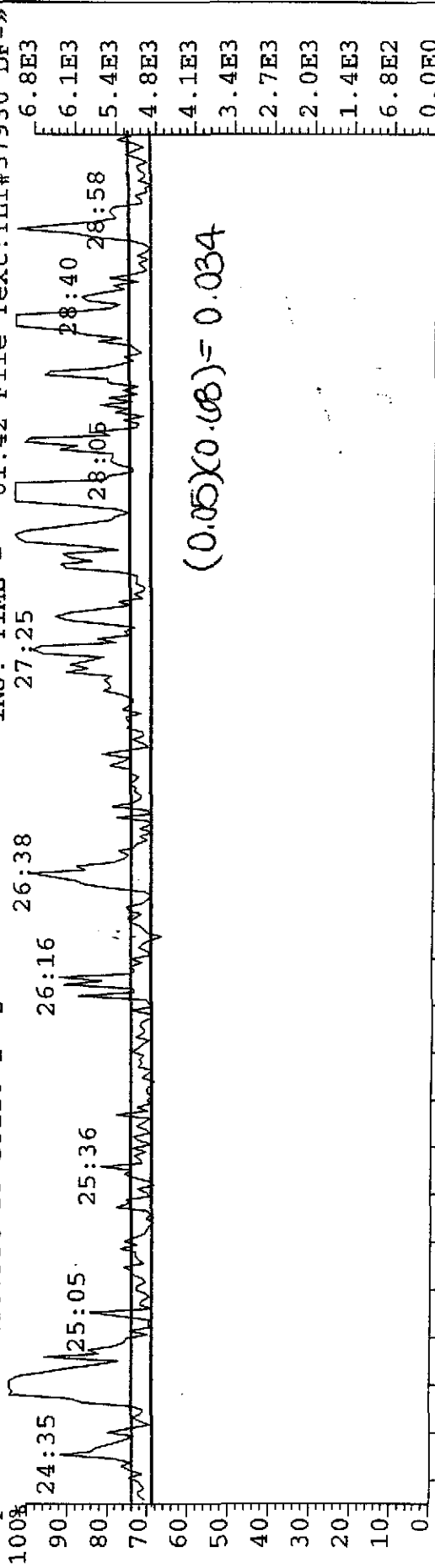


File: T023765 #1-924 Acq: 26-JUL-2002 01:40:15 EI+ Voltage SIR 70T

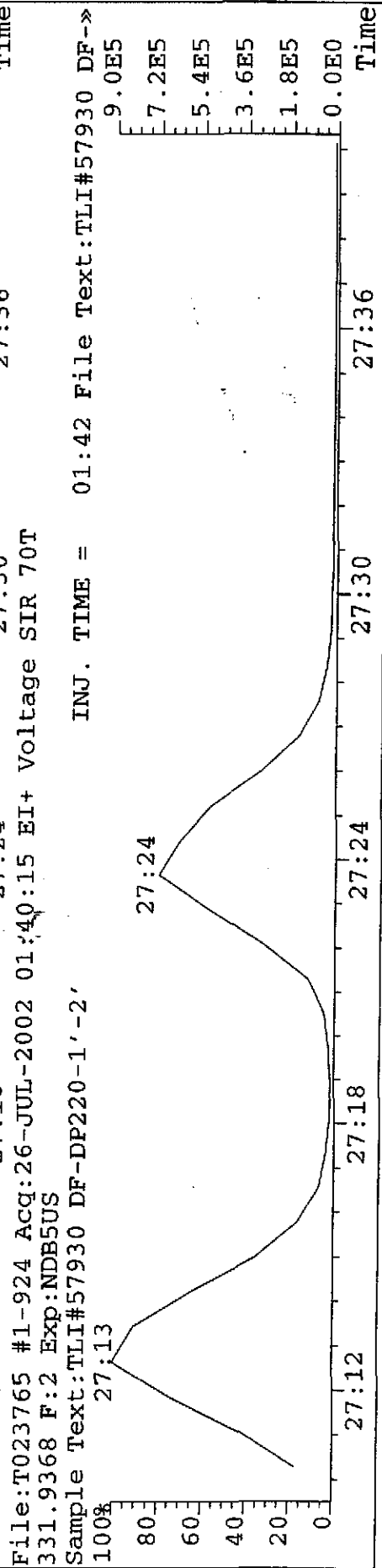
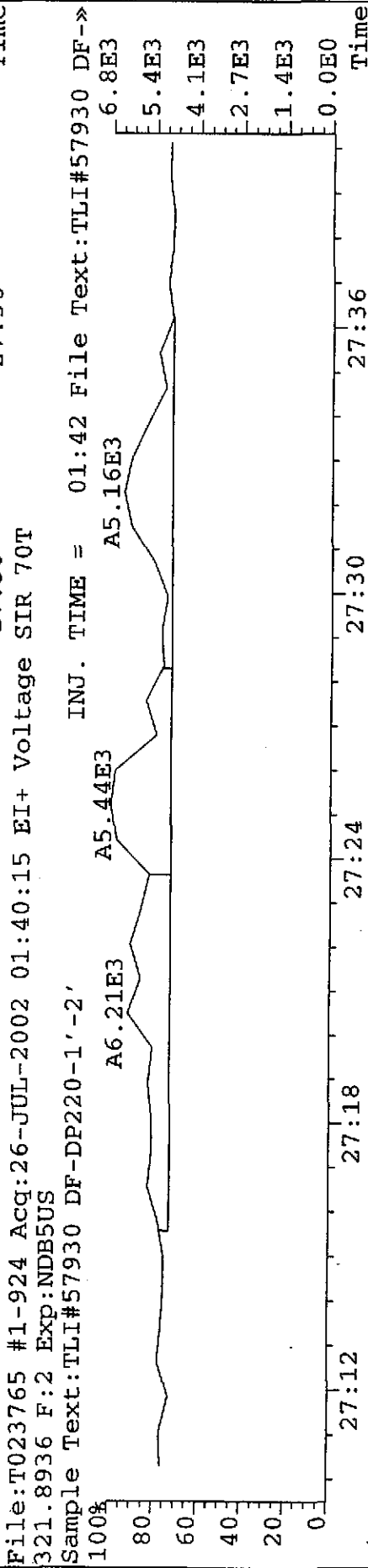
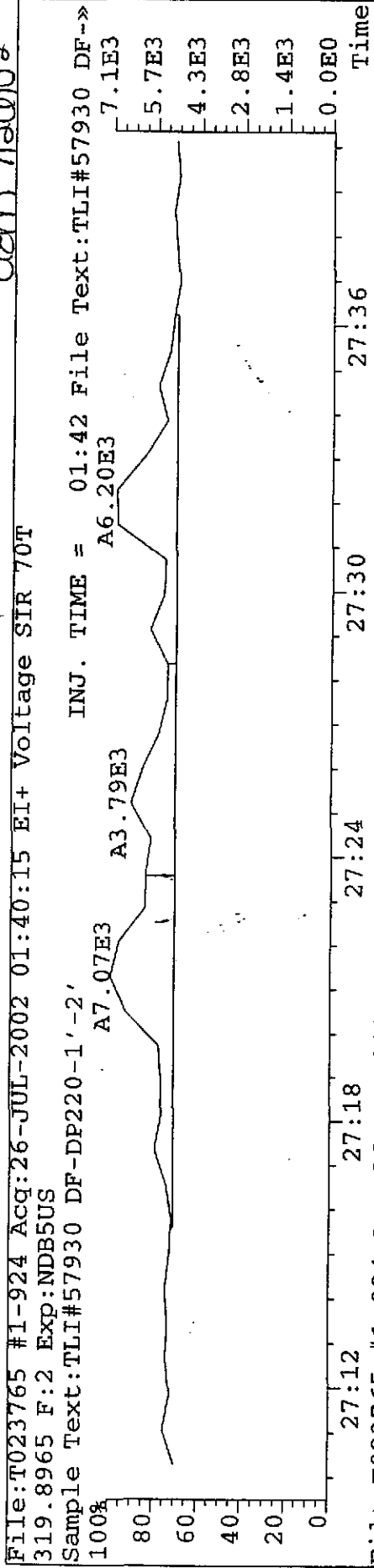
321.8936 F:2 Exp: NDB5US

Sample Text: TLI#57930 DF-DP220-1'-2'

INJ. TIME = 01:42 File Text: TLI#57930 DF->



QEN 7126002



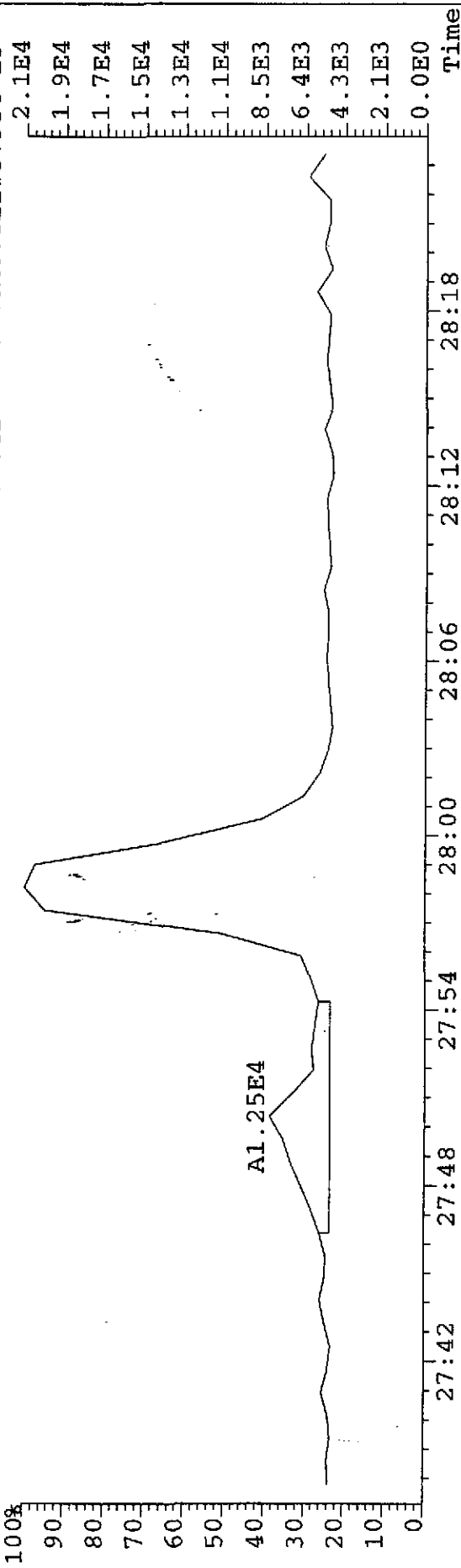
OEM 7120102

File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T

319.8965 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-1'-2'

INJ. TIME = 01:42 File Text:TLI#57930 DF->

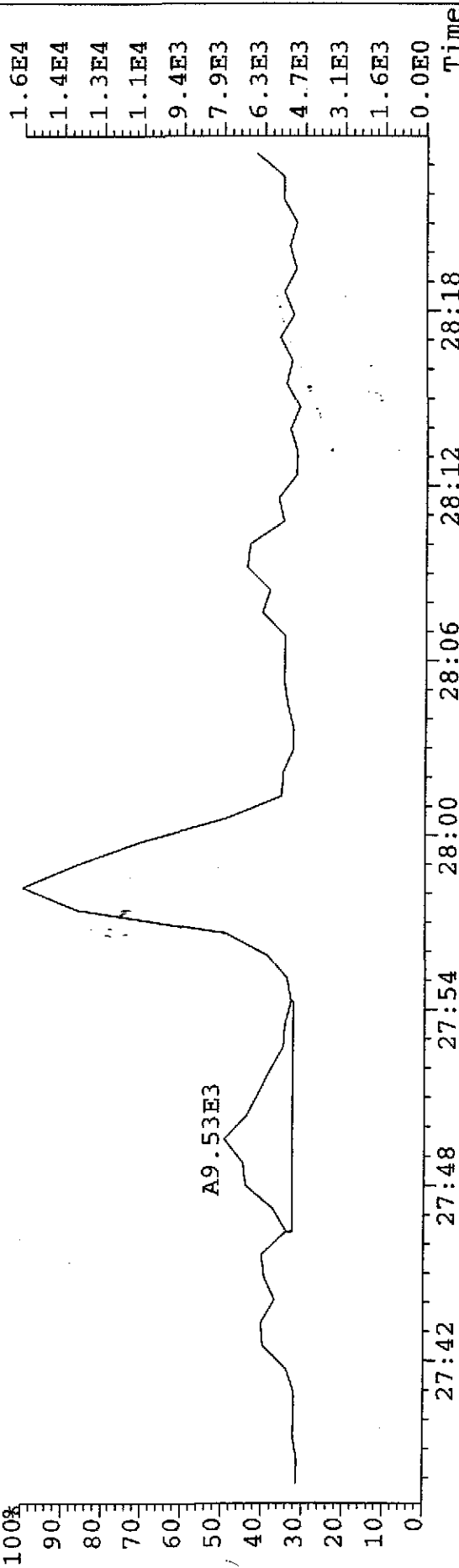


File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T

321.8936 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-1'-2'

INJ. TIME = 01:42 File Text:TLI#57930 DF->



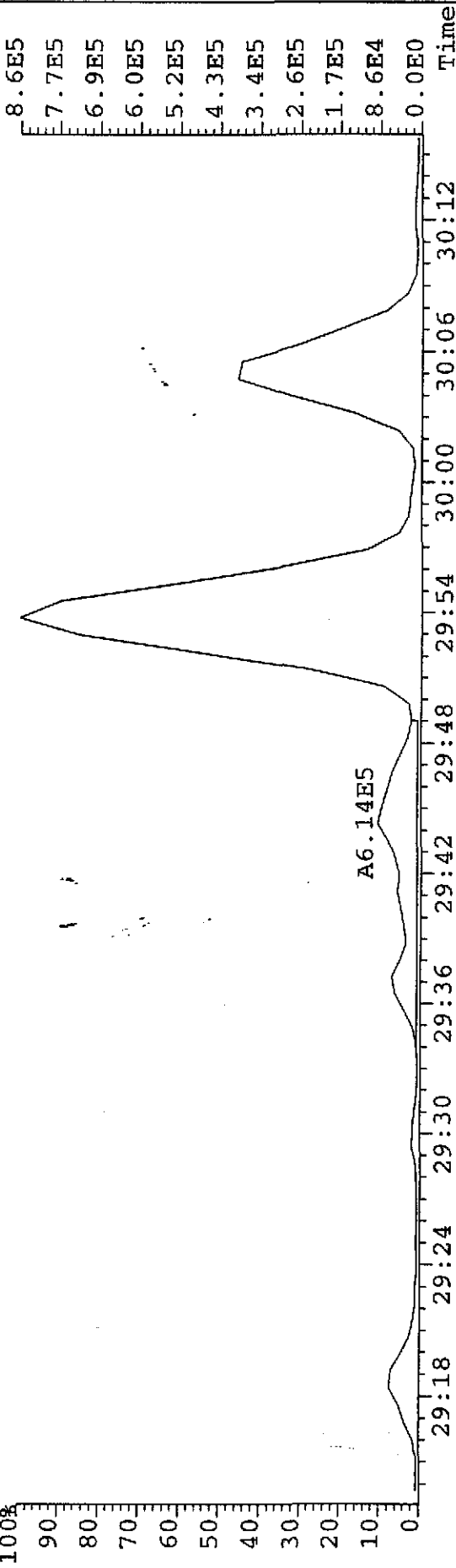
OEM 710102

File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T

339.8597 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-1'-2'

INJ. TIME = 01:42 File Text:TLI#57930 DF-->

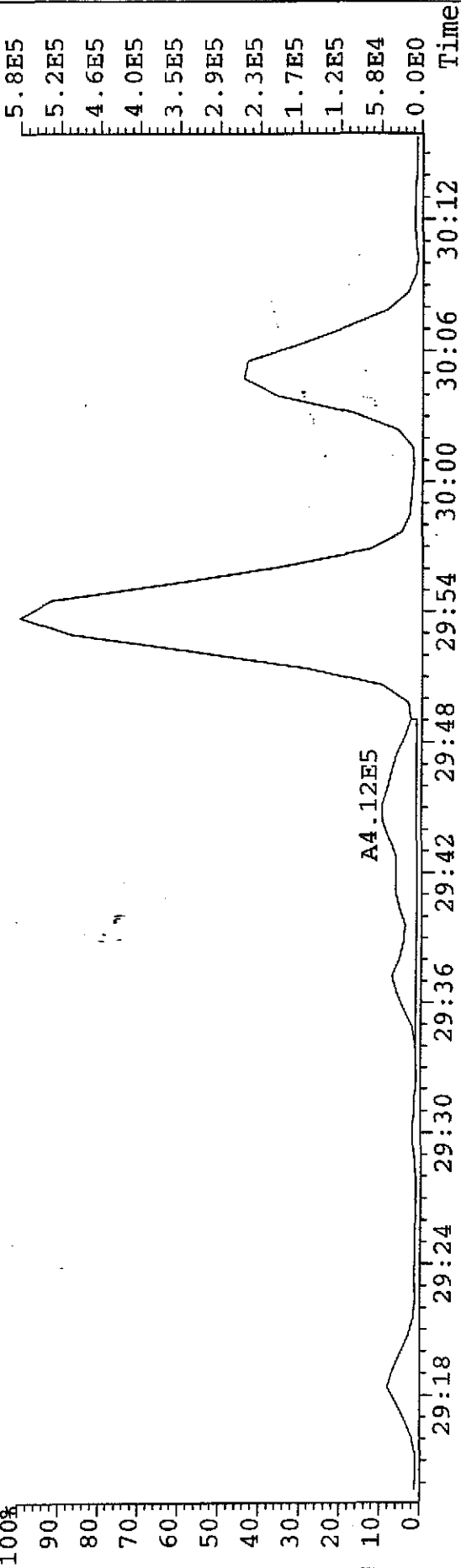


File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T

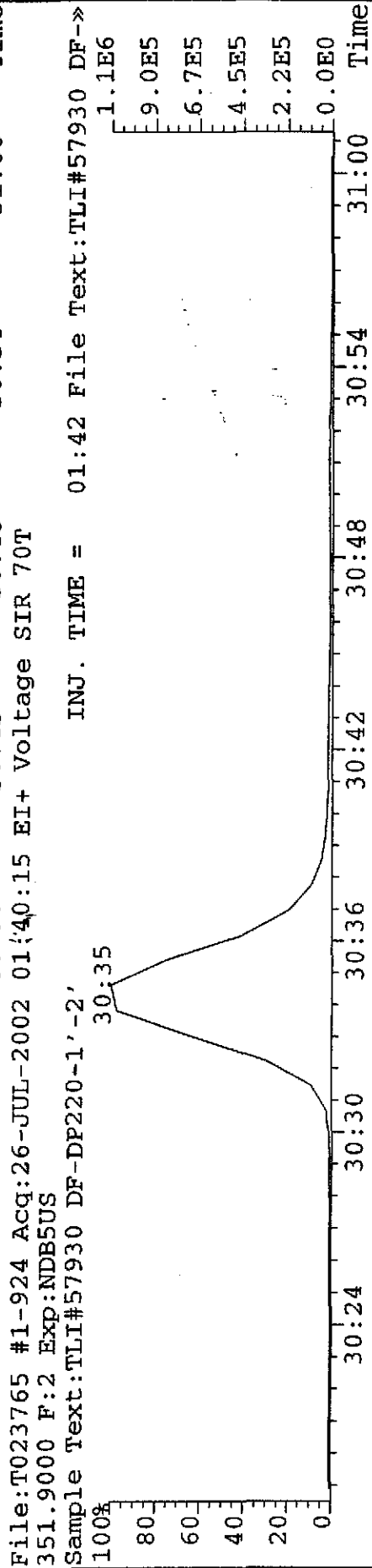
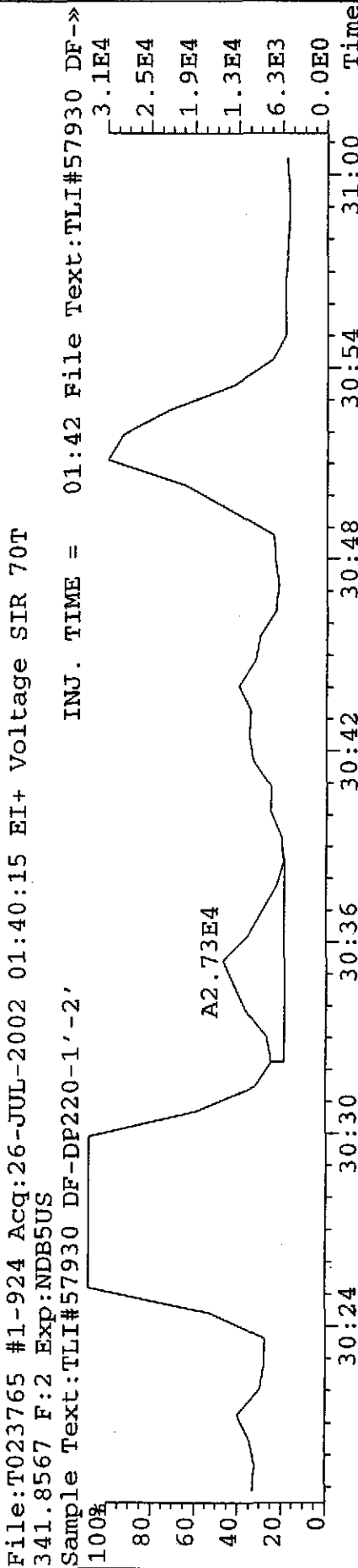
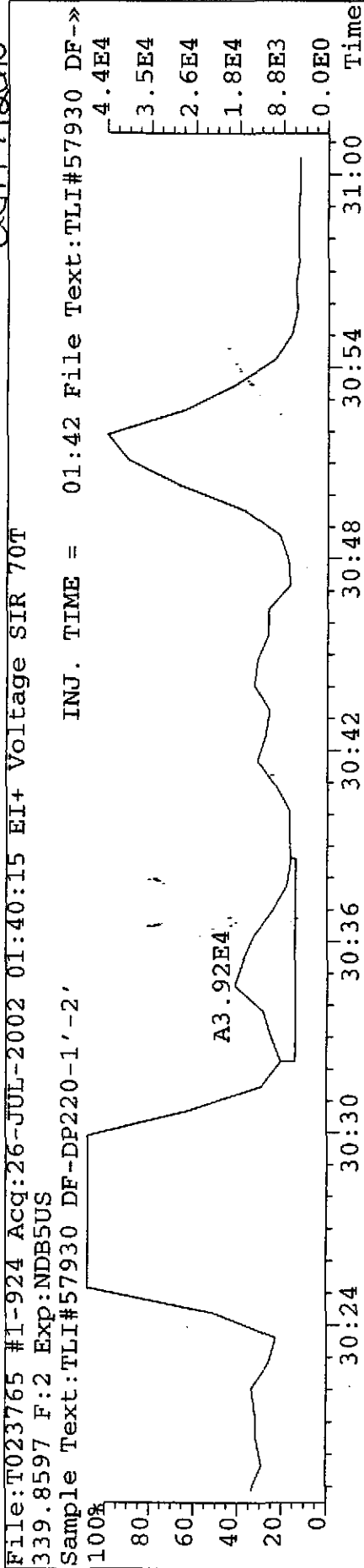
341.8567 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-1'-2'

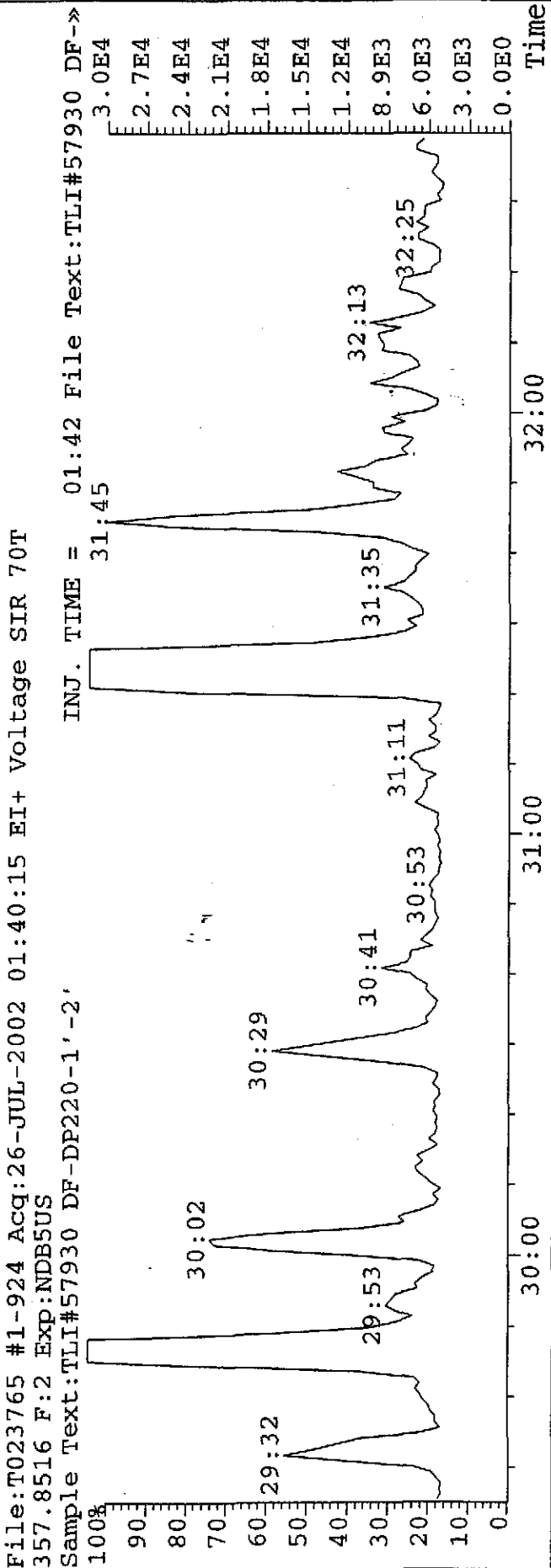
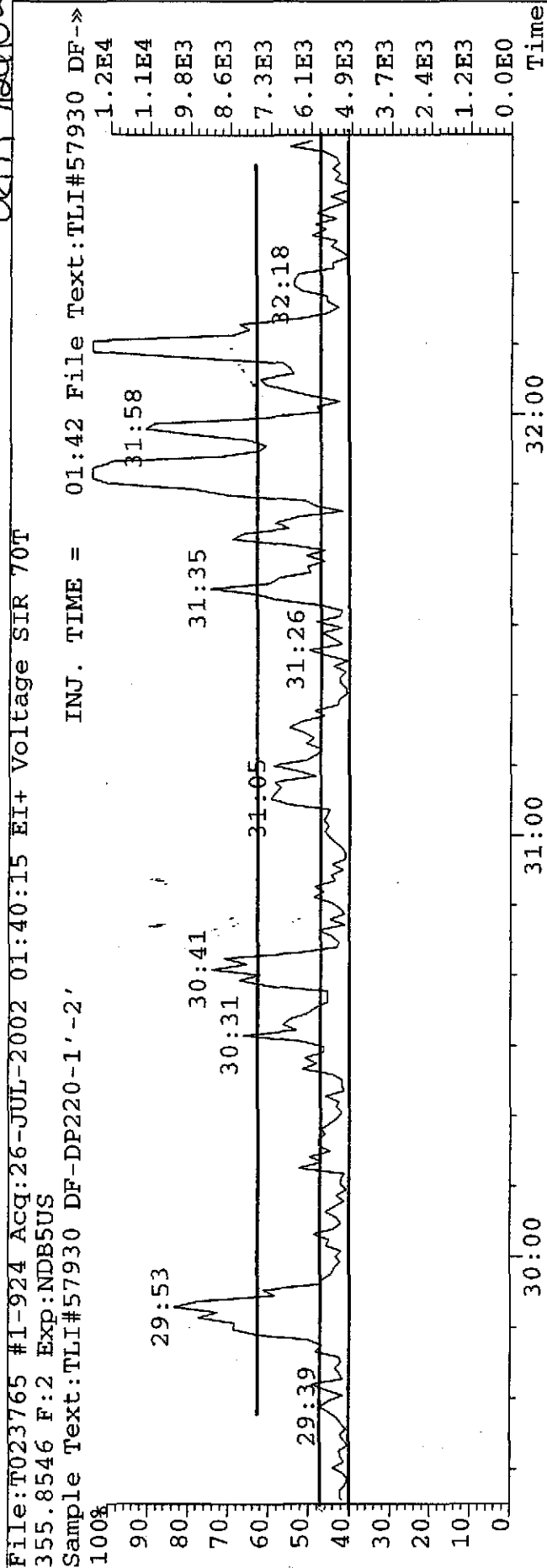
INJ. TIME = 01:42 File Text:TLI#57930 DF-->



08M712U02



020712002



28N 7/22/02

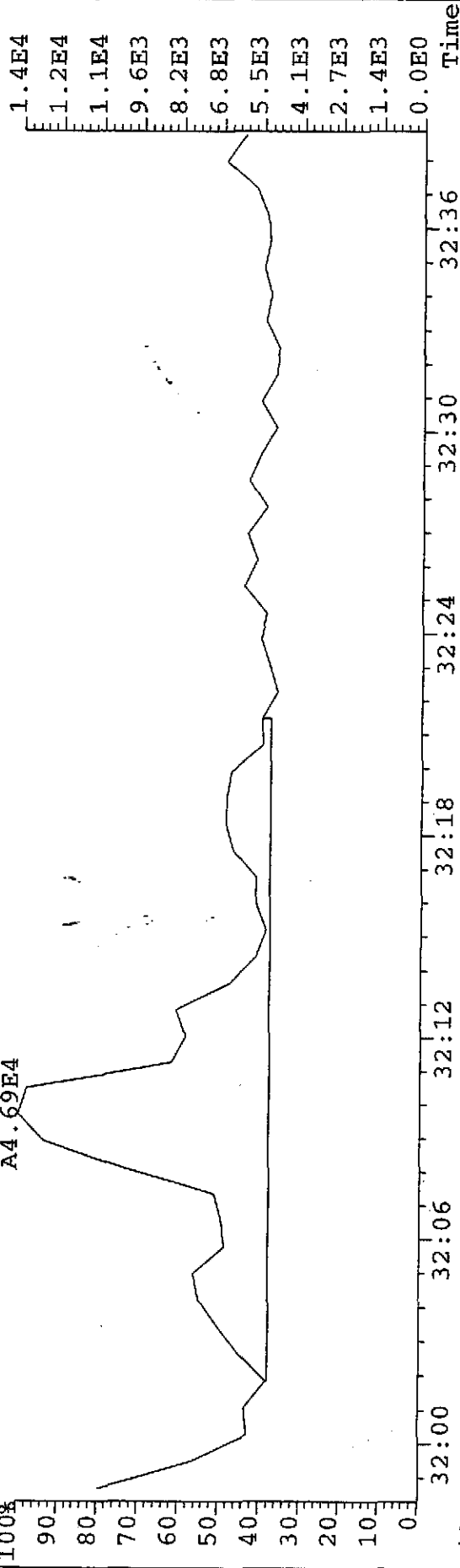
File:T023765 #1-924 Acq:26-JUL-2002 01:40:15 EI+ Voltage SIR 70T

355.8546 F:2 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-1'-2'

100% A4.69E4

INJ. TIME = 01:42 File Text:TLI#57930 DF-->



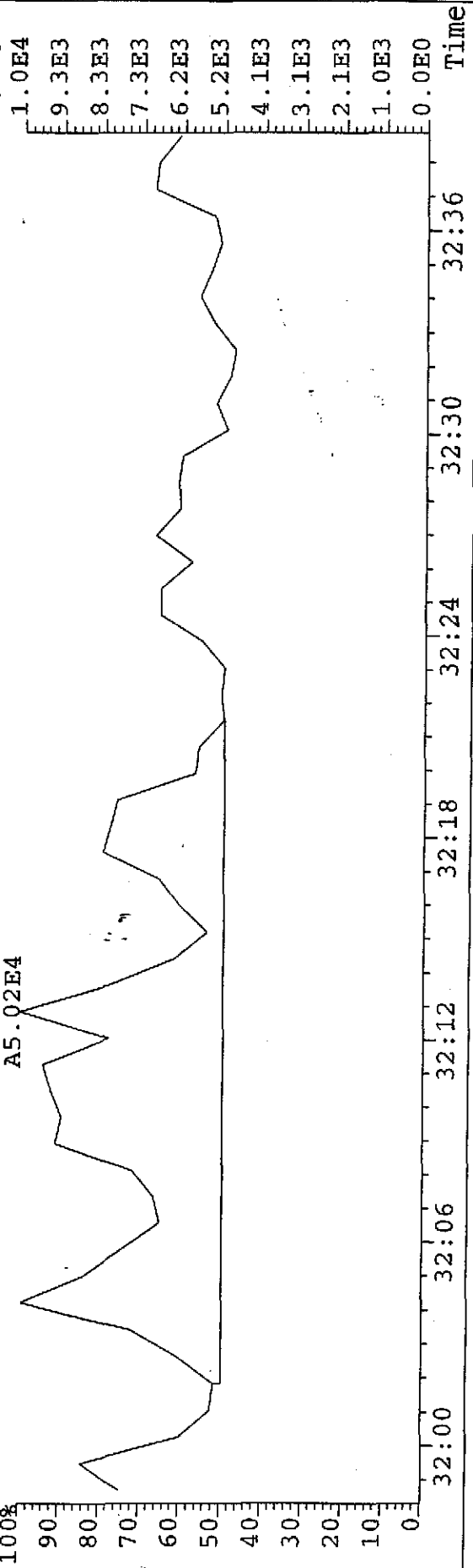
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357.8516 F:2 Exp:NDB5US

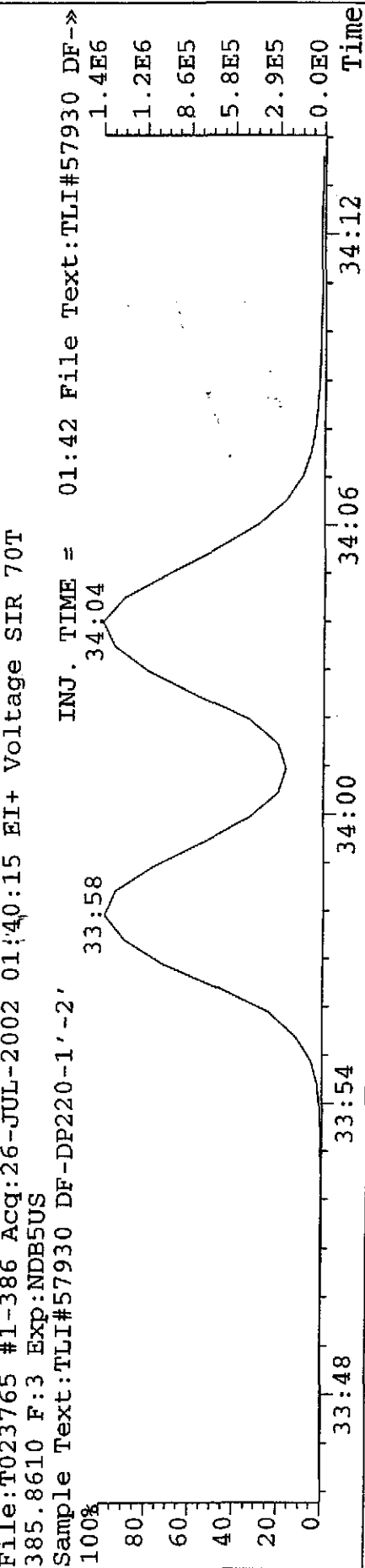
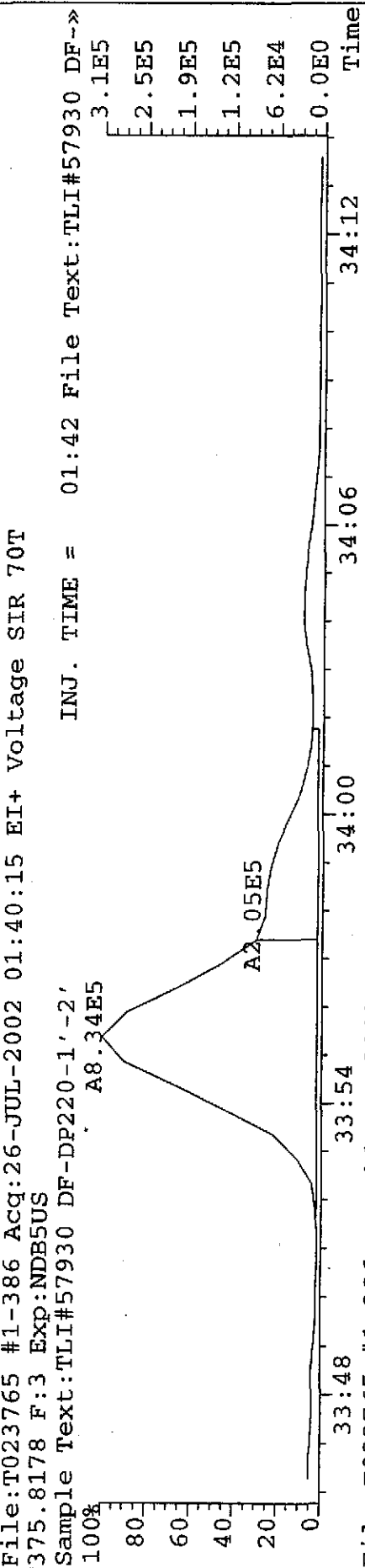
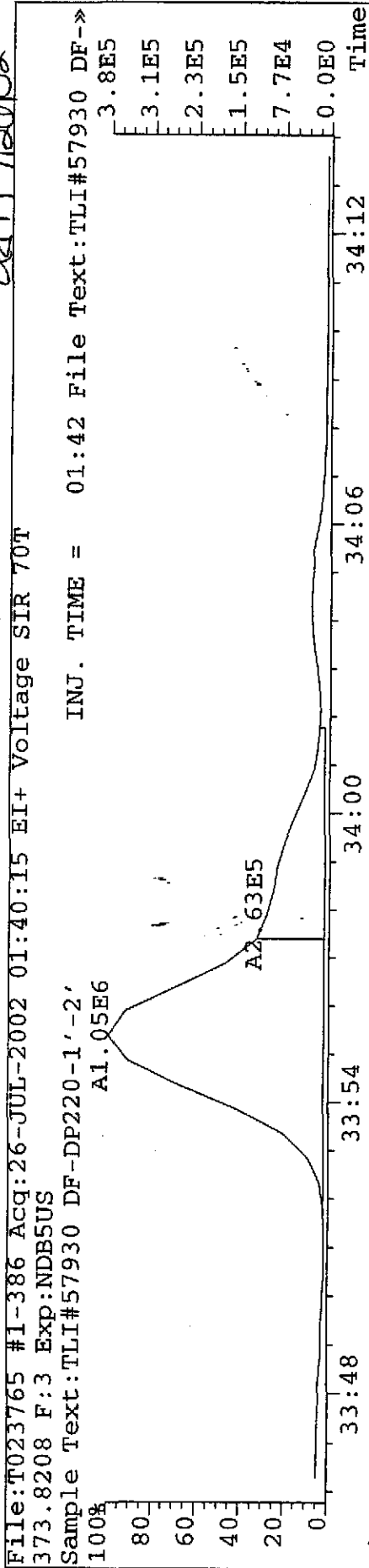
Sample Text:TLI#57930 DF-DP220-1'-2'

100% A5.02E4

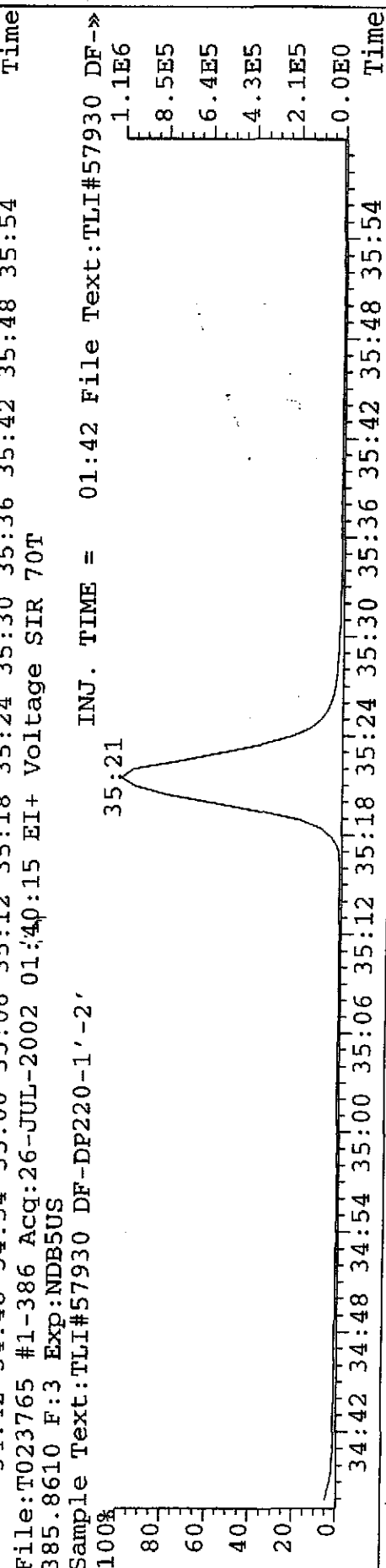
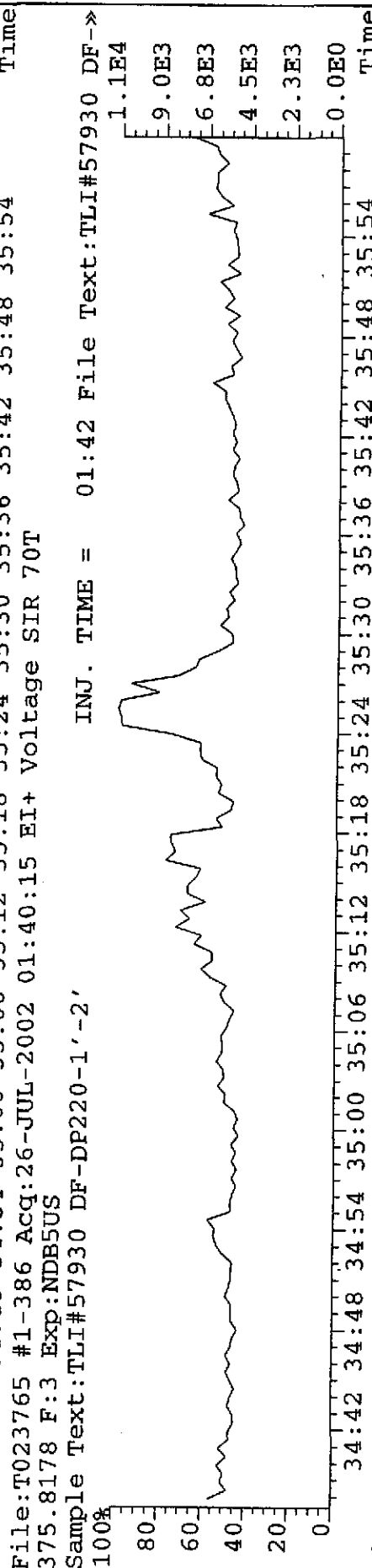
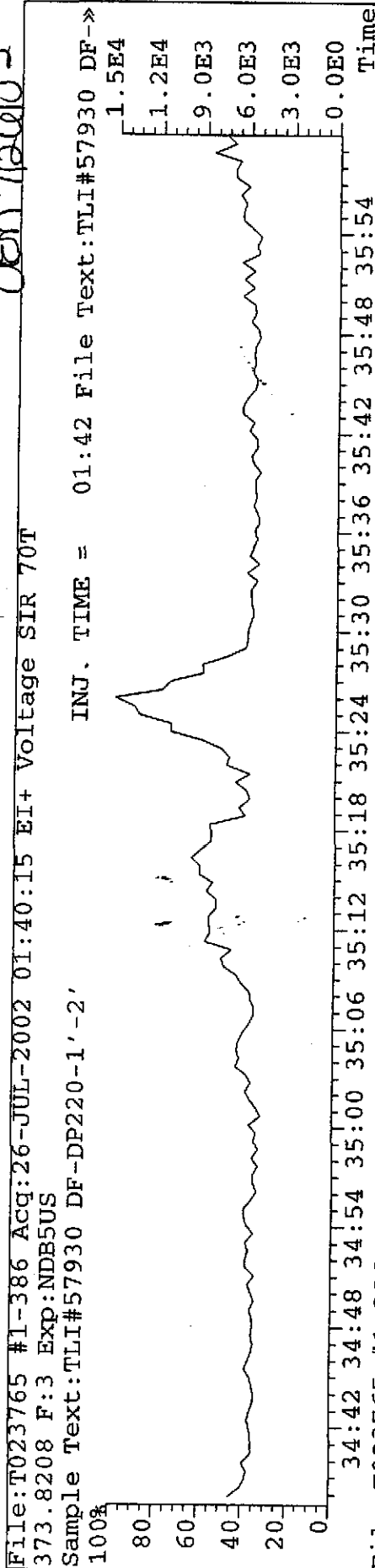
INJ. TIME = 01:42 File Text:TLI#57930 DF-->



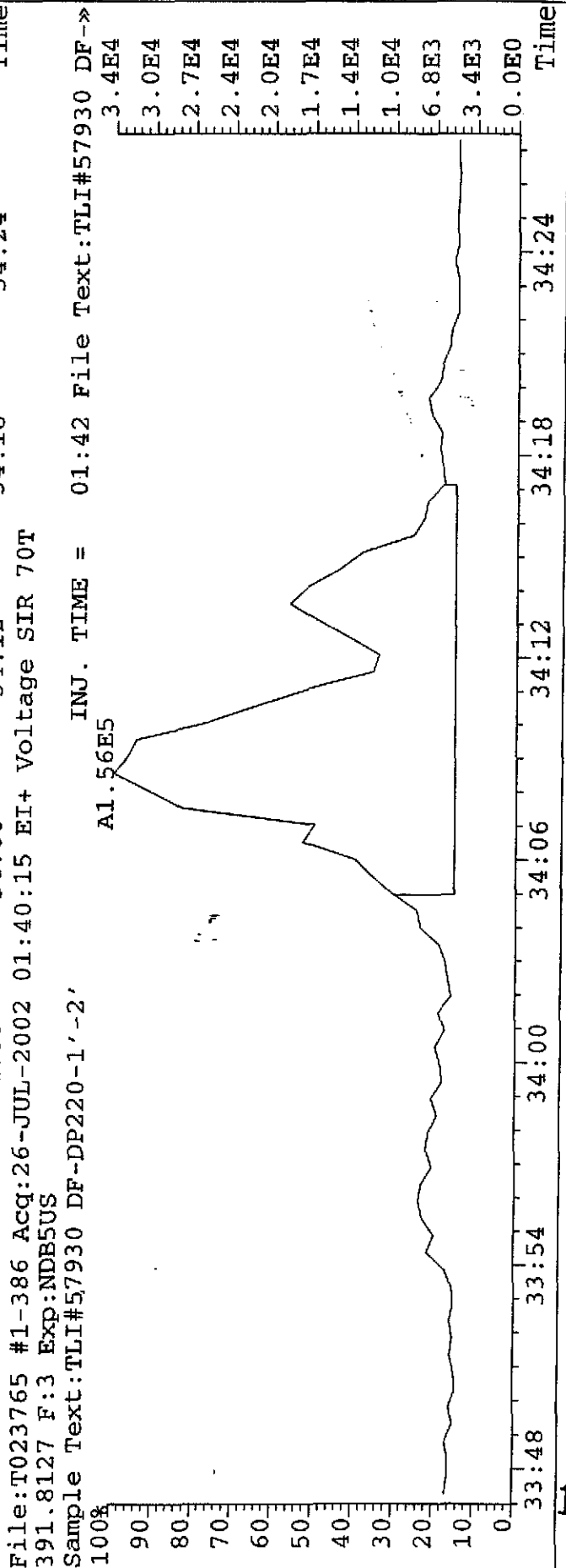
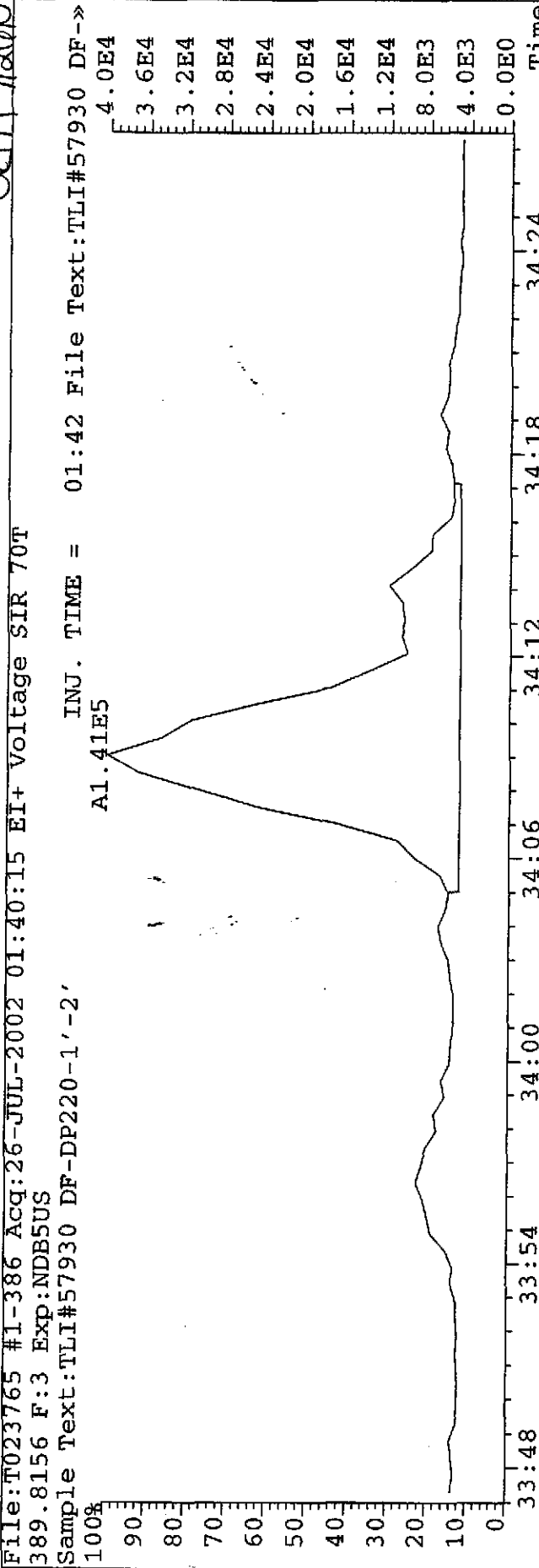
QEM 712002



0207120102



CRM 712602



020 7120102

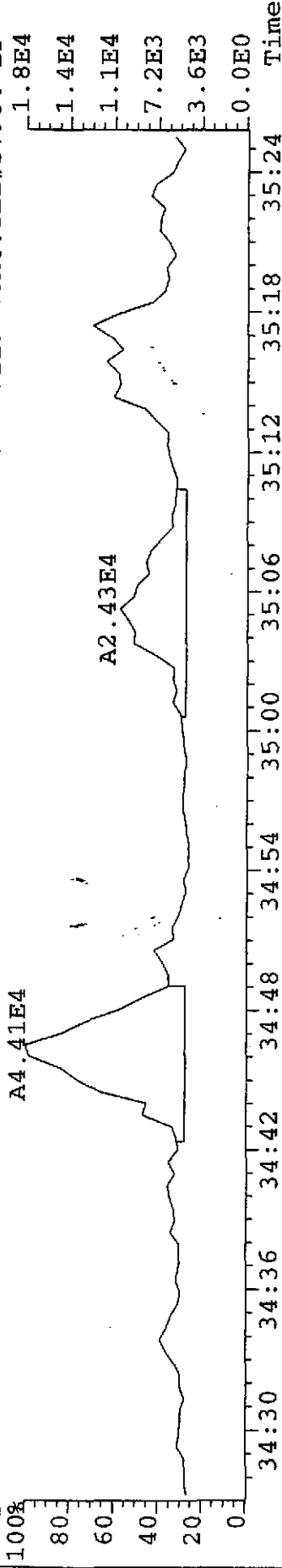
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389.8156 F:3 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-1'-2'

A4.41E4

INJ. TIME = 01:42 File Text:TLI#57930 DF->



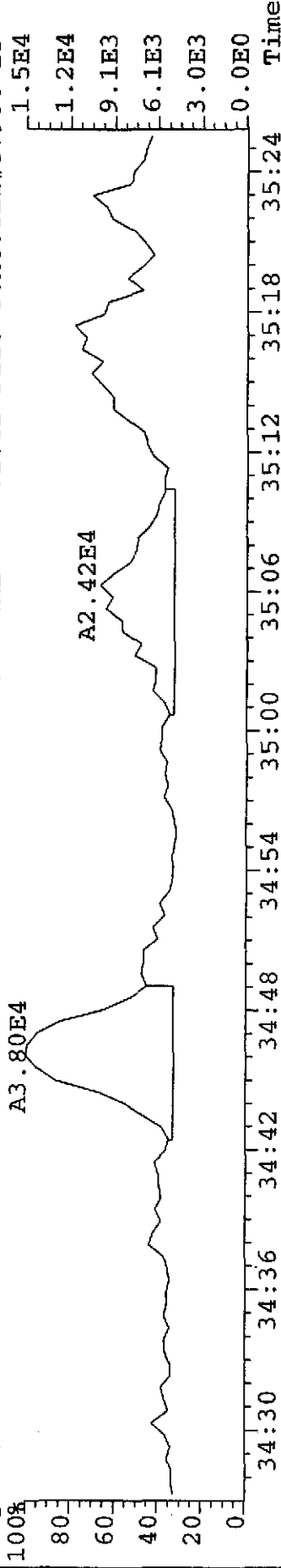
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391.8127 F:3 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-1'-2'

A3.80E4

INJ. TIME = 01:42 File Text:TLI#57930 DF->

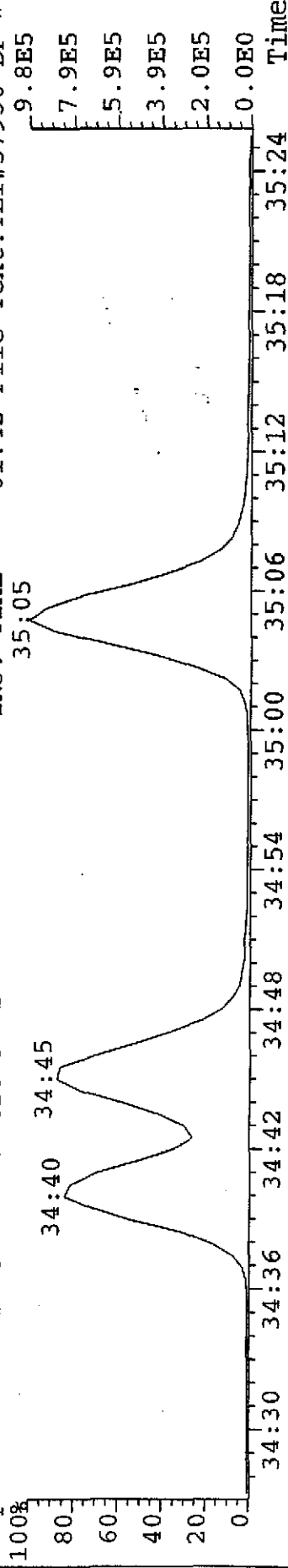


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401.8558 F:3 Exp:NDB5US

Sample Text:TLI#57930 DF-DP220-1'-2'

INJ. TIME = 01:42 File Text:TLI#57930 DF->



Martin & Slagle

TLI Project: 57930 1613, Revision B, Tetra Only PCDD/PCDF Analysis (c)
 Client Sample: DF-DP220-1'-2' Analysis File: P022727

Client Project:	Kuhlman Electric	Date Received:	07/20/2002	Spike File:	SPCONB2S
Sample Matrix:	SOLID	Date Extracted:	07/23/2002	ICal:	PF56152
TLI ID:	331-18-3	Date Analyzed:	07/29/2002	ConCal:	P022724
Sample Size:	12.600 g	Dilution Factor:	n/a	% Moisture:	20.4
Dry Weight:	10.030 g	Blank File:	T023762	% Lipid:	n/a
GC Column:	DB-225	Analyst:	JLD	% Solids:	79.6

Analytes	Conc. (pg/g)	DL	Ratio	RT	RRT	Flags
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2,3,7,8-TCDF	3.9		0.71	23:49	1.001	—
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Internal Standard	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	RRT	Flags
-------------------	--------------	------------	-----------	-------	----	-----	-------

¹³ C ₁₂ -2,3,7,8-TCDF	137	68.7	29%-140%	0.76	23:48	1.052	—
---	-----	------	----------	------	-------	-------	---

Recovery Standard	Ratio	RT	Flags
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¹³ C ₁₂ -1,2,3,4-TCDD	0.81	22:38	—
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Data Reviewer: WSC 07/29/2002

InitialDate...

Data Review By:

JAMME 7/29/02

Channel specific noise levels computed from 'NL' heights.

Page No. 1
07/29/2002

Listing of P022727B.dbf
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	0.47	0.21	0.26			
	DC	SN	19:01 RO 2.83	0.46		0.799			
			19:12 RO 2.41	2.15	1.52	0.63	0.807		J
	DC	SN	19:40 RO 0.21	1.61			0.826		
			19:47 0.78	5.77	2.53	3.24	0.831		
			19:53 0.70	46.30	19.05	27.25	0.835		
			20:02- 0.65	1.35	0.53	0.82	0.842		J
			20:07 RO 0.91	9.74	4.65	5.09	0.845		
			20:15 0.77	13.87	6.05	7.82	0.851		
	DC	SN	20:23 RO 1.58	0.49			0.856		
	DC	SN	20:42 RO 0.22	1.13			0.870		
			20:56 RO 1.08	6.08	3.15	2.93	0.880		
			21:08 0.66	4.42	1.76	2.66	0.888		
			21:15 0.77	6.83	2.97	3.86	0.893		
			21:27 0.78	39.13	17.19	21.94	0.901		
			21:47 0.65	1.78	0.70	1.08	0.915		J
			21:58 RO 0.98	20.51	10.15	10.36	0.923		
			22:12 0.81	54.37	24.26	30.11	0.933		
			22:18 0.89	4.73	2.23	2.50	0.937		
			22:35 RO 0.48	4.52	1.46	3.06	0.949		
			22:41 RO 0.98	8.62	4.26	4.36	0.953		
			22:48 RO 0.47	4.80	1.54	3.26	0.958		
			22:59 RO 0.46	7.04	2.23	4.81	0.966		
	DC	SN	23:16 RO 2.06	1.07			0.978		
			23:34 0.67	1.64	0.66	0.98	0.990		J
			23:43 0.65	2.97	1.17	1.80	0.996		J
			23:49 0.71	16.27	6.77	9.50	1.001	2378-TCDF	AN
			24:05 RO 0.40	3.77	1.08	2.69	1.012		J
			24:11 0.74	15.82	6.75	9.07	1.016		
			24:30 0.74	179.12	76.19	102.93	1.029		
	DC	SN	25:24 RO 1.35	1.93			1.067		
			25:41 RO 1.03	7.52	3.82	3.70	1.079		
			25:55 0.70	16.52	6.81	9.71	1.089		
	DC	SN	26:01 RO 1.94	1.00			1.093		
	DC	SN	26:05 RO 0.98	0.91			1.096		
	DC	SN	26:22 RO 0.40	0.35			1.108		
	DC	WH	26:29 RO 0.63	4.60			1.113		
	DC	WH	26:42 0.80	4.32			1.122		
304-306			26 Peaks	485.64					

13C12-TCDF
316-318

			0.65-0.89			0.958-1.042
	DC	NL	Height	0.84	0.40	0.44
	DC	WL	19:05 RO 0.93	2.36		0.802
	DC	WL	19:37 RO 3.47	2.86		0.824
	DC	WL	20:24 RO 0.96	3.90		0.857
	DC	WL	20:32 0.89	2.00		0.863

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	21:07	RO	1.70		1.19			0.887		
DC	WL	21:14		0.66		1.03			0.892		
DC	WL	21:20	RO	0.93		1.10			0.896		
DC	WL	21:26	RO	0.54		1.51			0.901		
DC	WL	21:32	RO	1.48		2.70			0.905		
DC	WL	21:46		0.78		1.90			0.915		
DC	WL	22:18	RO	0.54		5.91			0.937		
DC	WL	22:34	RO	1.15		4.46			0.948		
DC	SN	22:53	RO	2.31		0.86			0.961		
DC	SN	23:12	RO	0.18		1.24			0.975		
		23:48		0.76		733.59	317.88	415.71	1.000	13C12-2378-TCDF	ISO
				Height		192.10	85.54	106.56			
DC	SN	24:03	RO	2.73		4.40			1.011		
DC	SN	24:09	RO	1.46		3.84			1.015		
DC	WH	25:04	RO	0.91		1.11			1.053		
DC	WH	25:10	RO	1.86		2.26			1.057		
DC	WH	25:14	RO	1.27		2.41			1.060		
DC	WH	25:43	RO	5.56		2.10			1.081		
DC	WH	26:02	RO	1.03		6.97			1.094		
DC	WH	26:24	RO	1.98		1.94			1.109		
DC	WH	26:30	RO	2.00		1.20			1.113		
DC	WH	26:37	RO	3.64		2.60			1.118		
316-318				1 Peak		733.59					

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

13C12-TCDD
332-334

				0.65-0.89			0.910-1.090				
				Height	0.78	0.47	0.31				
DC	SN	20:21	RO	8.15	3.02		0.913				
DC	SN	20:27		0.88	0.90		0.918				
DC	SN	20:50	RO	1.19	1.47		0.935				
DC	SN	20:54	RO	0.48	0.83		0.938				
DC	SN	21:03		0.73	1.28		0.945				
DC	SN	21:37	RO	1.13	0.96		0.970				
DC	SN	21:39	RO	1.68	0.83		0.972				
DC	SN	21:45	RO	1.52	1.21		0.976				
DC	SN	22:08		0.65	0.94		0.993				
		22:17		0.73	473.64	200.14	273.50	1.000	13C12-2378-TCDD	IS1	
				Height	122.95	50.47	72.48				
		22:38		0.81	703.32	314.90	388.42	1.016	13C12-1234-TCDD	RS1	
DC	SN	22:47	RO	1.66	0.85		1.022				
DC	SN	22:53	RO	2.35	1.14		1.027				
DC	SN	23:08	RO	1.81	0.87		1.038				
DC	SN	23:46	RO	1.35	1.15		1.067				
DC	WH	24:35		0.75	1.33		1.103				
DC	WH	25:09	RO	2.30	1.22		1.129				
DC	WH	25:15	RO	0.39	2.40		1.133				
DC	WH	25:24	RO	0.53	1.47		1.140				
DC	WH	25:29	RO	2.00	1.59		1.144				
DC	WH	25:49	RO	0.99	2.15		1.159				
332-334				2 Peaks		1,176.96					

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.

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

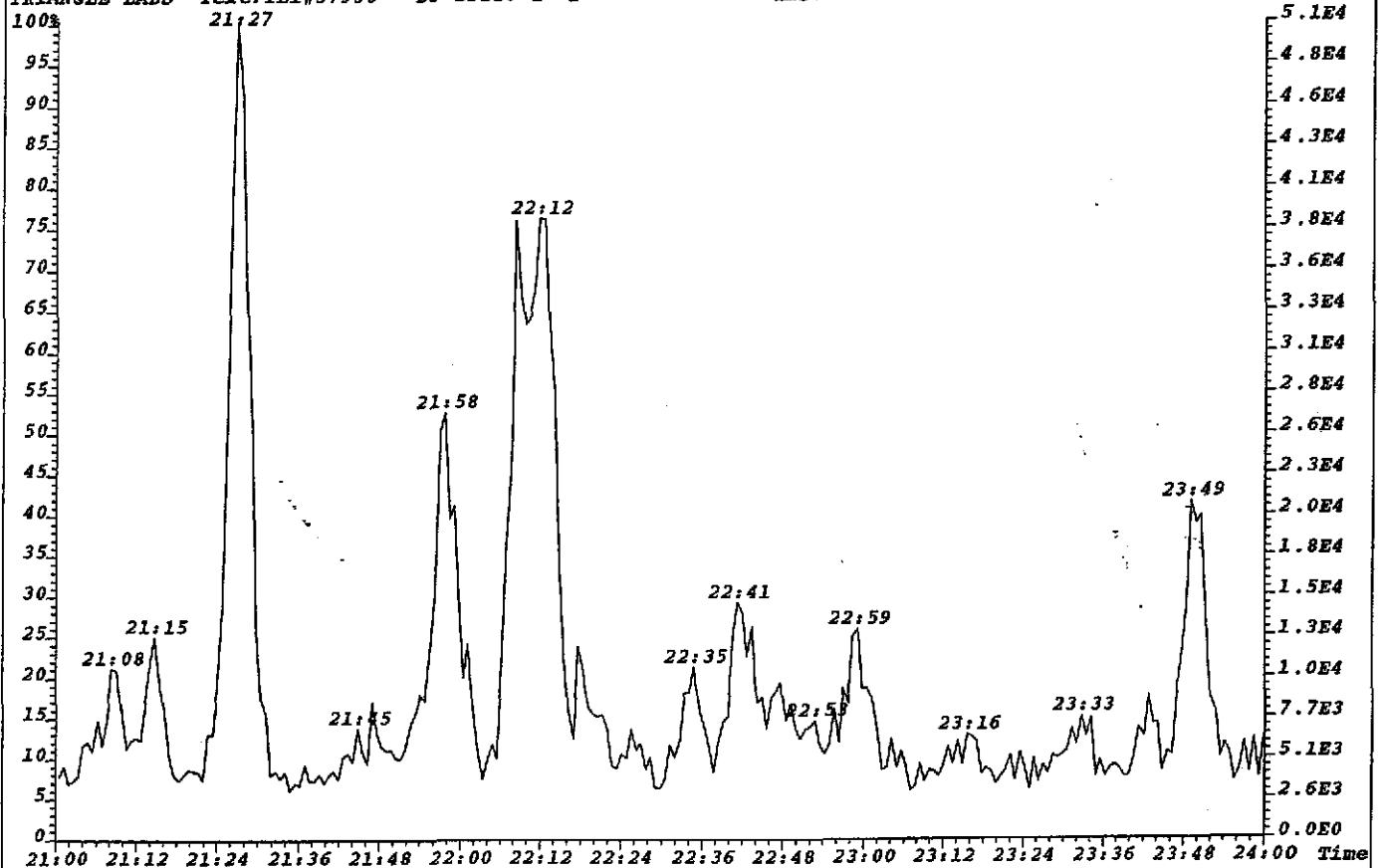
*** End of Report ***

File: P022727 #1-3026 Acq: 29-JUL-2002 16:02:44 EI+ Voltage SIR 70P

303.9016 GC: DB225 Exp: none

TRIANGLE LABS Text: TLI#57930 DF-DP220-1'-2'

INJ. TIME = 16:02

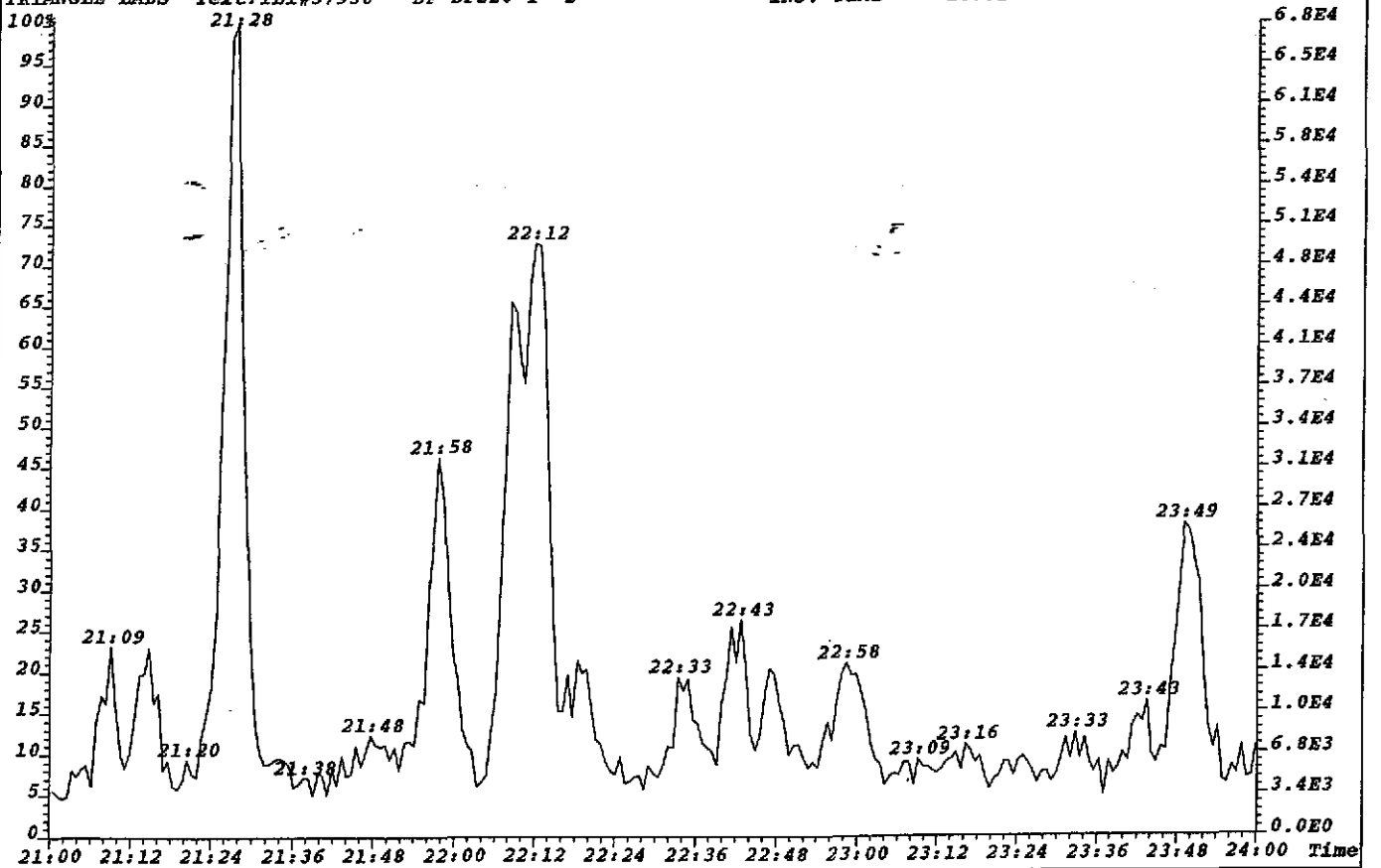


File: P022727 #1-3026 Acq: 29-JUL-2002 16:02:44 EI+ Voltage SIR 70P

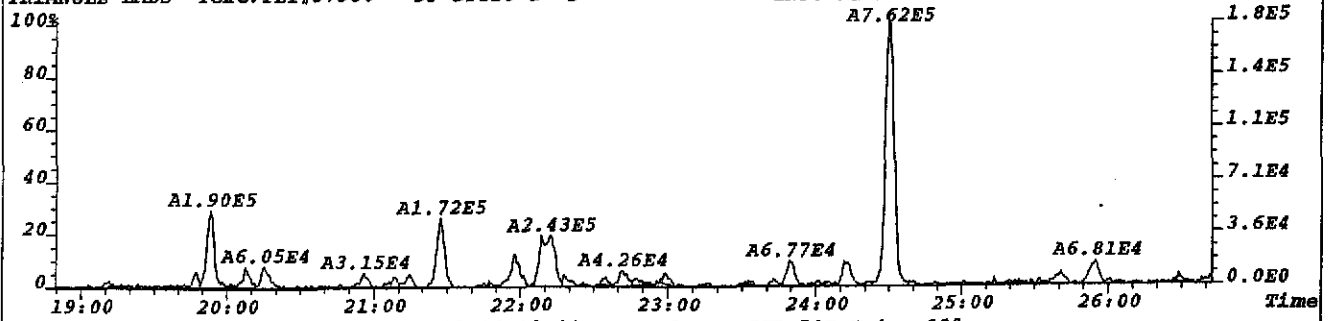
305.8987 GC: DB225 Exp: none

TRIANGLE LABS Text: TLI#57930 DF-DP220-1'-2'

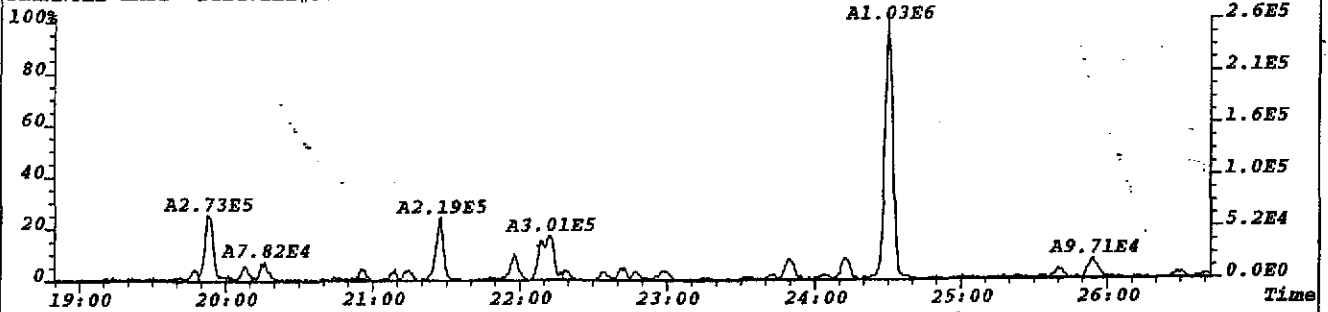
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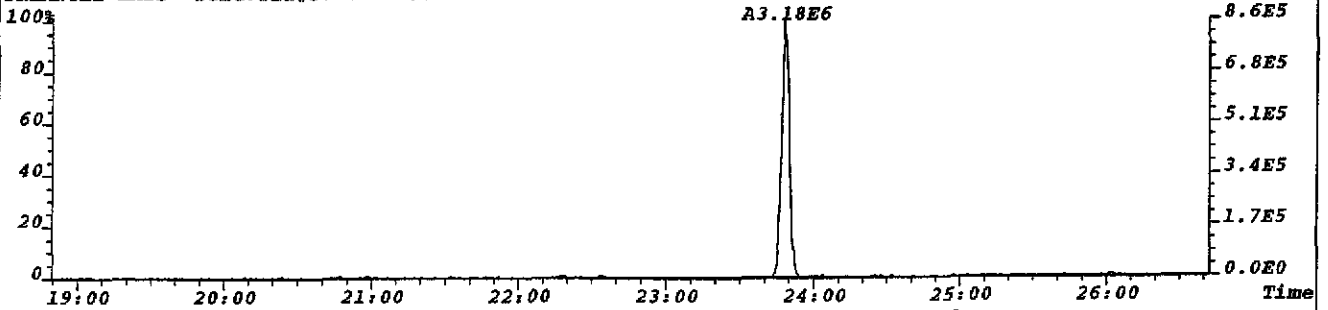
File: P022727 #1-3026 Acq: 29-JUL-2002 16:02:44 EI+ Voltage SIR 70P Noise: 264
303.9016 BSUB(256, 30, -3.0) PKD(5, 3, 1, 0.10%, 1056.0, 0.00%, F, F) Exp: DB225
TRIANGLE LABS Text: TLI#57930 DF-DP220-1'-2' INJ. TIME = 16:02



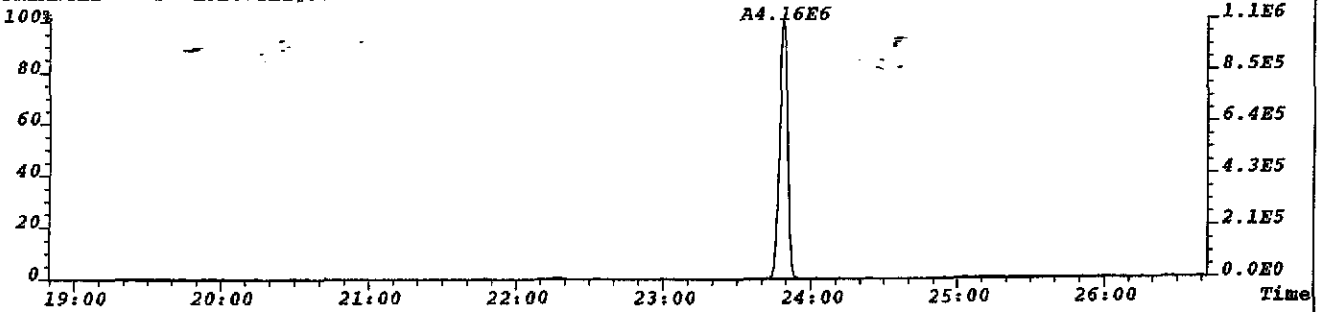
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TRIANGLE LABS Text: TLI#57930 DF-DP220-1'-2' INJ. TIME = 16:02



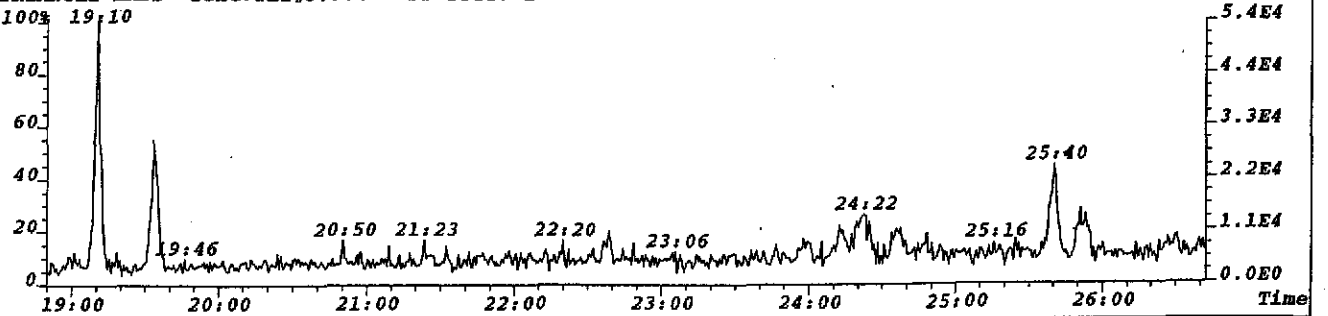
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315.9419 BSUB(256, 30, -3.0) PKD(5, 3, 1, 0.10%, 2016.0, 0.00%, F, F) Exp: DB225
TRIANGLE LABS Text: TLI#57930 DF-DP220-1'-2' INJ. TIME = 16:02



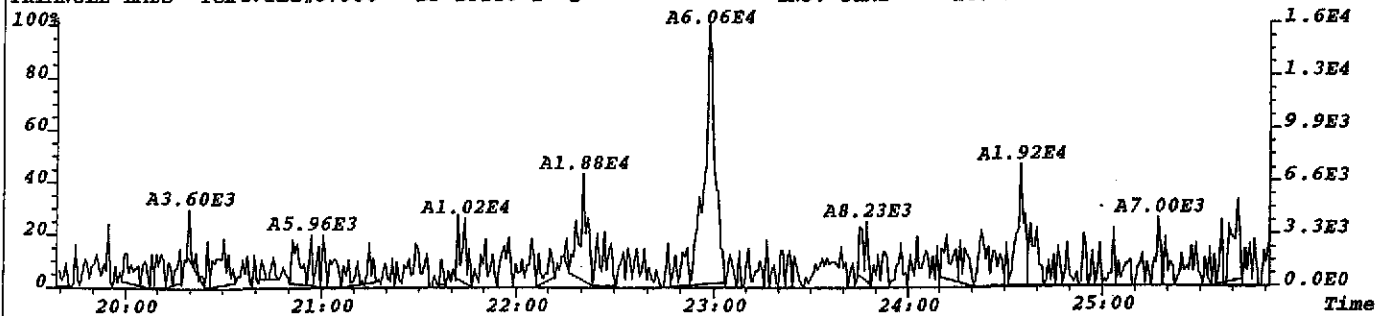
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317.9389 BSUB(256, 30, -3.0) PKD(5, 3, 1, 0.10%, 2200.0, 0.00%, F, F) Exp: DB225
TRIANGLE LABS Text: TLI#57930 DF-DP220-1'-2' INJ. TIME = 16:02



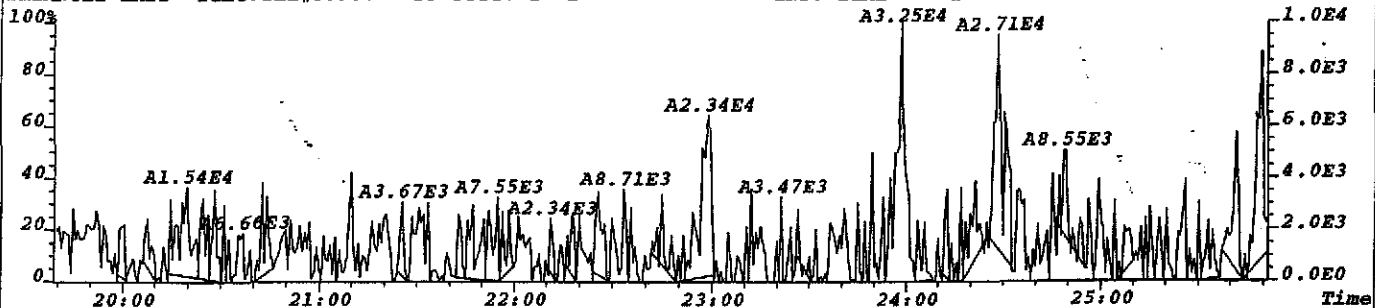
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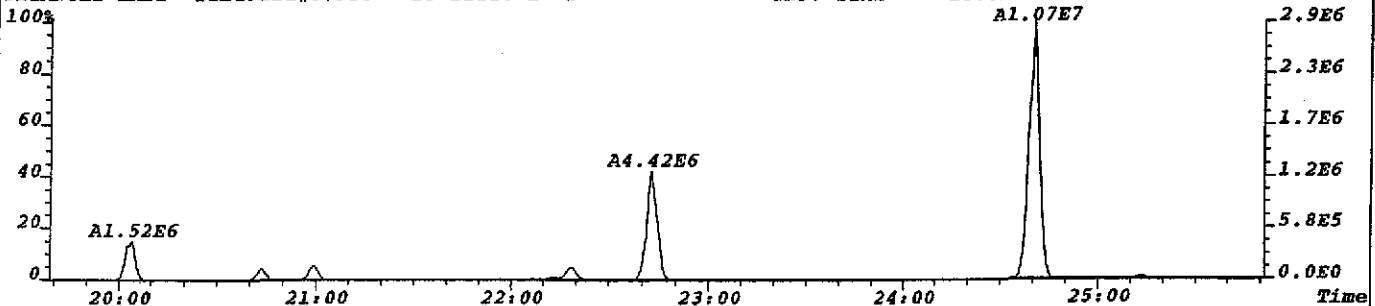
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319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1516.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 16:02



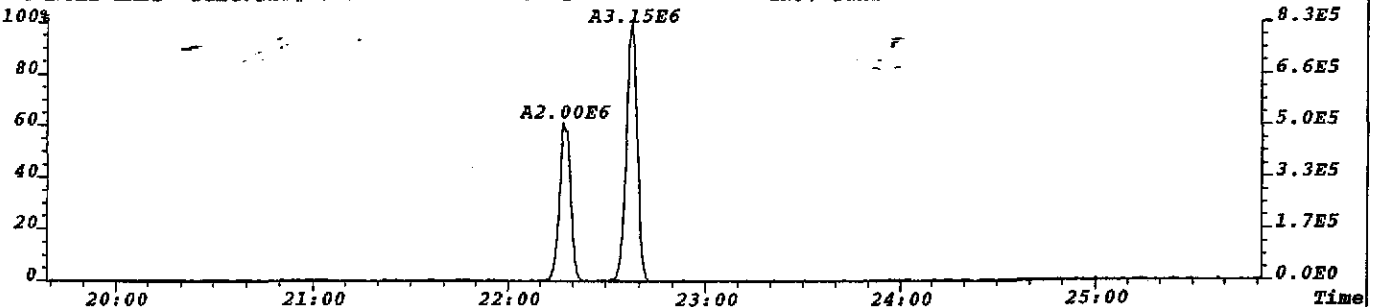
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321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1500.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 16:02



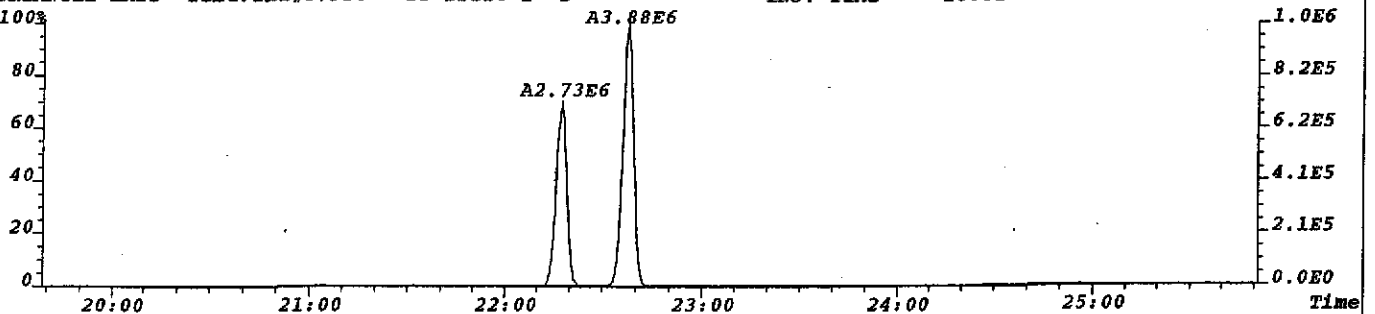
File:P022727 #1-3026 Acq:29-JUL-2002 16:02:44 EI+ Voltage SIR 70P Noise:373
327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1492.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 16:02



File:P022727 #1-3026 Acq:29-JUL-2002 16:02:44 EI+ Voltage SIR 70P Noise:586
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,2344.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 16:02



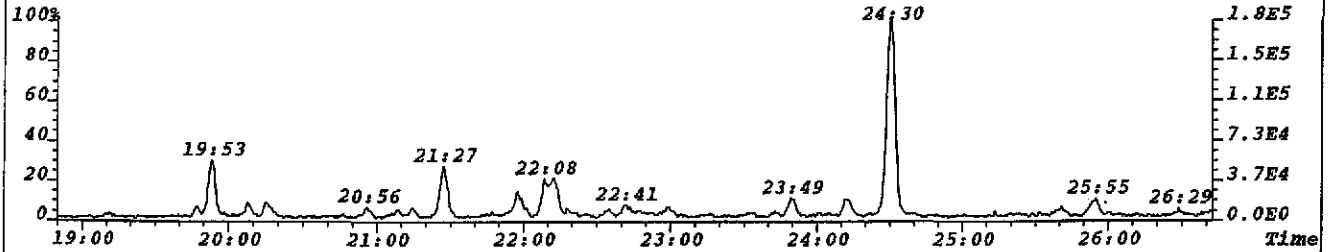
File:P022727 #1-3026 Acq:29-JUL-2002 16:02:44 EI+ Voltage SIR 70P Noise:383
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1532.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2' INJ. TIME = 16:02



File:P022727 #1-3026 Acq:29-JUL-2002 16:02:44 EI+ Voltage SIR 70P
303.9016 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2'

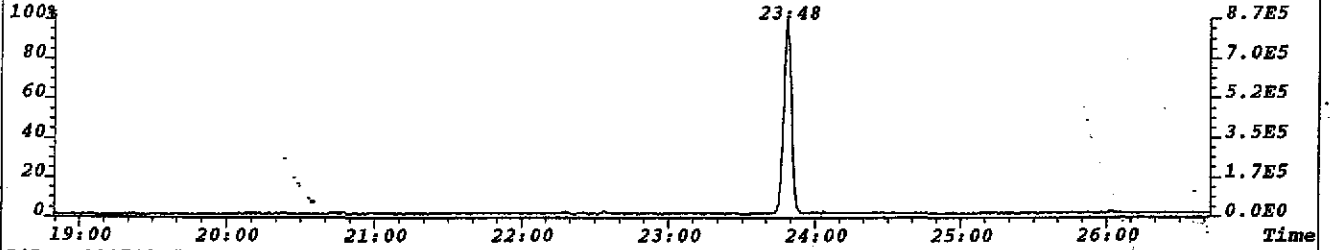
INJ. TIME = 16:02



File:P022727 #1-3026 Acq:29-JUL-2002 16:02:44 EI+ Voltage SIR 70P
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TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2'

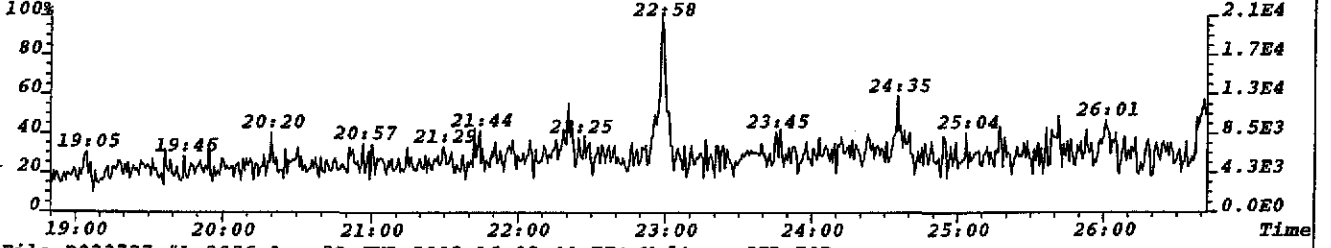
INJ. TIME = 16:02



File:P022727 #1-3026 Acq:29-JUL-2002 16:02:44 EI+ Voltage SIR 70P
319.8965 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2'

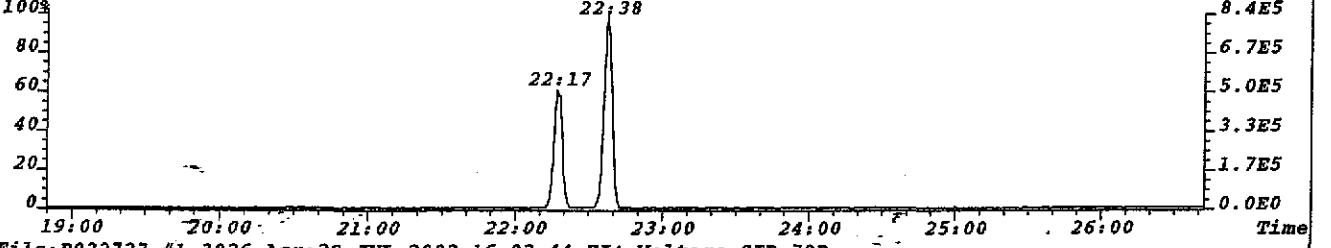
INJ. TIME = 16:02



File:P022727 #1-3026 Acq:29-JUL-2002 16:02:44 EI+ Voltage SIR 70P
331.9368 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2'

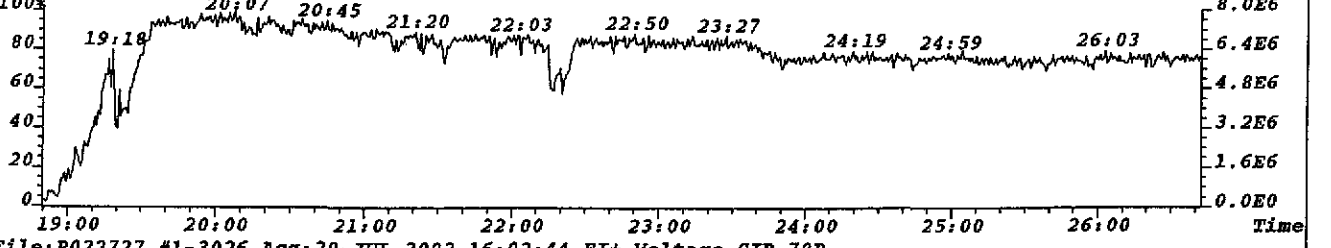
INJ. TIME = 16:02



File:P022727 #1-3026 Acq:29-JUL-2002 16:02:44 EI+ Voltage SIR 70P
292.9825 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2'

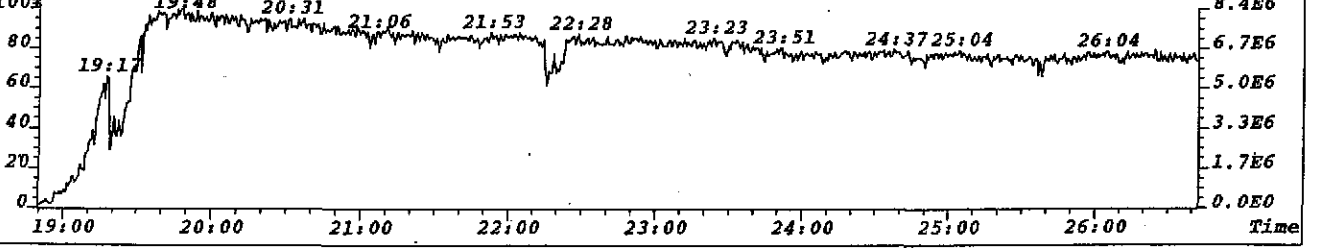
INJ. TIME = 16:02

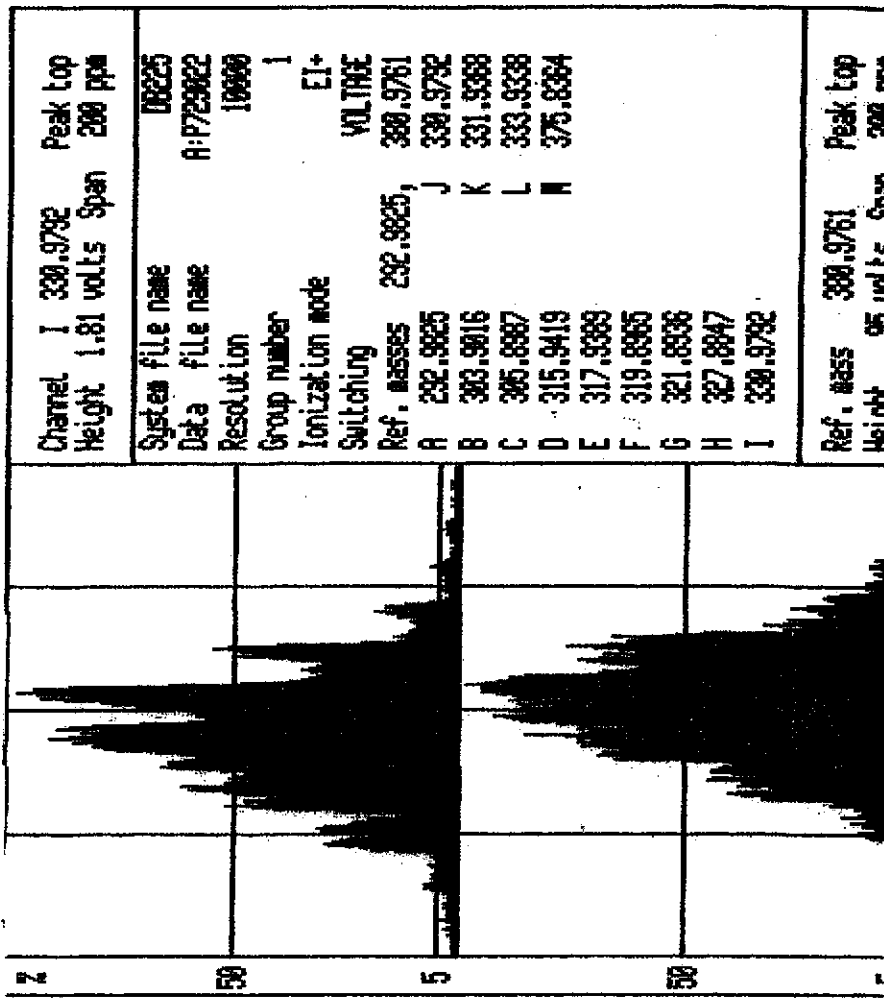


File:P022727 #1-3026 Acq:29-JUL-2002 16:02:44 EI+ Voltage SIR 70P
330.9792 Exp:DB225

TRIANGLE LABS Text:TLI#57930 DF-DP220-1'-2'

INJ. TIME = 16:02





Channel I 330.9732 Peak top
 Height 1.81 volts Span 200 ppm

System file name D0225
 Data file name A:P729022
 Resolution 10000
 Group number 1
 Ionization mode EI+
 Switching VOLTAGE
 Ref. masses 292.9825, 380.9761
 A 292.9825 J
 B 303.9816 K
 C 305.8887 L
 D 315.9419 M
 E 317.9388
 F 319.8865
 G 321.8836
 H 327.8847
 I 330.9732

Ref. mass 380.9761 Peak top
 Height 05 volts Chan 200 ppm

Martin & Slagle

TLI Project: 57930 1613, Revision B PCDD/PCDF Analysis (c)
 Client Sample: DF-DP164-0-0,5' Analysis File: T023766

Client Project: Kuhlman Electric	Date Received: 07/20/2002	Spike File: SP161B2S
Sample Matrix: SOLID	Date Extracted: 07/23/2002	ICal: TF5612B
TLI ID: 331-18-4	Date Analyzed: 07/26/2002	ConCal: TB23758
Sample Size: 12.600 g	Dilution Factor: n/a	% Moisture: 20.1
Dry Weight: 10.067 g	Blank File: T023762	% Lipid: n/a
GC Column: DB-5	Analyst: VSC	% Solids: 79.9

Analytes	Conc. (pg/g)	DL	Ratio	RT	RRT	Flags
2,3,7,8-TCDD	ND	0.1				---
1,2,3,7,8-PeCDD	ND	1.2				---
1,2,3,4,7,8-HxCDD	ND	0.4				---
1,2,3,6,7,8-HxCDD	3.0		1.18	34:47	1.000	J_
1,2,3,7,8,9-HxCDD	2.1		1.15	35:05	1.009	J_
1,2,3,4,6,7,8-HpCDD	23.2		1.04	38:07	1.000	---
1,2,3,4,6,7,8,9-OCDD	281		0.86	41:55	1.000	---
2,3,7,8-TCDF	5.3		0.87	26:43	1.001	---
1,2,3,7,8-PeCDF	0.96		1.62	30:35	1.000	J_
2,3,4,7,8-PeCDF	3.3		1.64	31:15	1.000	J_
1,2,3,4,7,8-HxCDF	0.69		1.22	33:59	1.000	J_
1,2,3,6,7,8-HxCDF	3.3		1.28	34:04	1.000	J_
2,3,4,6,7,8-HxCDF	3.4		1.28	34:35	1.000	J_
1,2,3,7,8,9-HxCDF	ND	0.2				---
1,2,3,4,6,7,8-HpCDF	111		1.08	37:03	1.000	---
1,2,3,4,7,8,9-HpCDF	2.9		1.07	38:38	1.000	J_
1,2,3,4,6,7,8,9-OCDF	38.4		0.87	42:08	1.006	---

Totals	Conc. (pg/g)	Number	DL	Flags
Total TCDD	0.44	1		---
Total PeCDD	1.7	1		---
Total HxCDD	24.0	6		---
Total HpCDD	47.6	2		---
Total TCDF	101	20		---
Total PeCDF	374	19		---
Total HxCDF	169	14		---
Total HpCDF	176	4		---

TLI Project: 57930
 Client Sample: DF-DP164-0-0,5'

Toxicity Equivalents Report
 Analysis File: T023766

Client Project:	Kuhlman Electric	Date Received:	07/20/02	Spike File:	SP161B2S
Sample Matrix:	SOLID	Date Extracted:	07/23/02	ICal:	TF5612B
TLI ID:	331-18-4	Date Analyzed:	07/26/02	ConCal:	TB23758
Sample Size:	12.600 g	Dilution Factor:	1	% Moisture:	20.1
Dry Weight:	10.067 g	Blank File:	T023762	% Lipid:	n/a
GC Column:	DB-5	Analyst:	VSC	% Solids:	79.9

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	{0.1}	x	1.	=	0.1
1,2,3,7,8-PeCDD	{1.2}	x	0.5	=	0.60
1,2,3,4,7,8-HxCDD	{0.4}	x	0.1	=	0.04
1,2,3,6,7,8-HxCDD	3.0	x	0.1	=	0.30
1,2,3,7,8,9-HxCDD	2.1	x	0.1	=	0.21
1,2,3,4,6,7,8-HpCDD	23.2	x	0.01	=	0.232
1,2,3,4,6,7,8,9-OCDD	281	x	0.001	=	0.281
TOTAL PCDD					1.8
2,3,7,8-TCDF	2.5	x	0.1	=	0.25
1,2,3,7,8-PeCDF	0.96	x	0.05	=	0.048
2,3,4,7,8-PeCDF	3.3	x	0.5	=	1.7
1,2,3,4,7,8-HxCDF	0.69	x	0.1	=	0.069
1,2,3,6,7,8-HxCDF	3.3	x	0.1	=	0.33
2,3,4,6,7,8-HxCDF	3.4	x	0.1	=	0.34
1,2,3,7,8,9-HxCDF	{0.2}	x	0.1	=	0.02
1,2,3,4,6,7,8-HpCDF	111	x	0.01	=	1.11
1,2,3,4,7,8,9-HpCDF	2.9	x	0.01	=	0.029
1,2,3,4,6,7,8,9-OCDF	38.4	x	0.001	=	0.0384
TOTAL PCDF					3.9

Total EPA TEFs, 1989a: 5.7 pg/g

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

InitialDate...

Data Review By:

QEM 7/26/02

Calculated Noise Height: 0.07

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07/26/2002

Listing of T023766B.dbf
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	0.20	0.11	0.09				
D	D WL	23:32	0.86	29.44				0.881	
		24:02	0.76	6.87	2.96	3.91	0.900		
		24:13	0.67	5.60	2.25	3.35	0.907	J	
		24:23	0.77	7.35	3.19	4.16	0.913		
		24:38	0.88	11.59	5.41	6.18	0.923		
		24:46	0.83	7.56	3.44	4.12	0.928		
		25:05	0.77	6.05	2.63	3.42	0.939	J	
		25:13	0.85	13.37	6.16	7.21	0.944		
		25:26	0.74	11.74	4.99	6.75	0.953		
		25:47	0.78	30.60	13.43	17.17	0.966		
		26:07	0.85	55.56	25.52	30.04	0.978		
		26:18	0.79	47.77	21.15	26.62	0.985		
		26:27	0.80	44.22	19.60	24.62	0.991		
A		26:39	0.84	12.69	5.80	6.89	0.998		
M		26:43	0.87	33.90	15.80	18.10	1.001	2378-TCDF AN	
		26:54	0.73	3.64	1.53	2.11	1.007	J	
		27:09	0.88	12.89	6.05	6.84	1.017		
		27:21	0.77	8.22	3.57	4.65	1.024		
		27:34	0.83	37.09	16.79	20.30	1.032		
		27:54	0.81	287.37	128.20	159.17	1.045		
		28:14 RO	1.54	2.01	1.22	0.79	1.057		
		28:34	0.69	2.67	1.09	1.58	1.070	J	
	DC WH	28:54	0.85	3.25		1.082			
304-306		21 Peaks		648.76					

13C12-TCDF		0.65-0.89				0.944-1.131			
316-318	DC NL	Height	0.21	0.10	0.11				
		25:41	0.88	2.89	1.35	1.54	0.962		
		26:00	0.69	2.70	1.10	1.60	0.974		
		26:18	0.70	9.02	3.70	5.32	0.985		
		26:42	0.75	1,202.18	514.37	687.81	1.000	13C12-2378-TCDF ISO	
			Height	309.95	132.40	177.58			
		27:02 RO	1.03	4.18	2.12	2.06	1.012		
		27:24 RO	1.04	2.76	1.41	1.35	1.026		
		28:01 RO	0.19	2.61	0.42	2.19	1.049		
316-318		7 Peaks		1,226.34					

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

TCDD		0.65-0.89				0.905-1.042			
320-322	DC NL	Height	0.16	0.08	0.08				
A		24:57 RO	0.58	1.09	0.40	0.69	0.911		
	DC SN	25:11	0.76	0.30			0.919		
	DC SN	25:19 RO	1.58	0.93		0.924	1379-TCDD	AN	
D	D SN	25:36 RO	1.00	0.62		0.934			

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.

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
D	DC	SN			25:41	RO	1.86	0.20			0.937			
					26:14		0.79	1.97	0.87	1.10	0.957	J		
AD	DC	SN			26:43	RO	1.17	1.80			0.975			
					27:10	RO	1.52	0.58			0.991			
D	DC	SN			27:22	RO	1.13	2.81			0.999			
					27:33	RO	1.24	1.03	0.57	0.46	1.005			
					27:50	RO	1.39	5.30	3.08	2.22	1.016			
					27:58	RO	1.57	5.85	3.57	2.28	1.021			
					28:10	RO	0.60	0.77			1.028			
D	DC	SN			28:24		0.68	1.06			1.036			
					28:34	WH	0.81	1.88			1.043			
					28:54	RO	1.35	1.97			1.055			
					5 Peaks		15.24							

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
328	DC	WL					Height	0.09	0.09		0.927-1.073			
					25:19		1.56			0.924				
					25:47		1.65	1.65		0.941				
					26:03		191.99	191.99		0.951				
					26:29		1.70	1.70		0.967				
					27:25		82.53	82.53		1.001	37Cl-TCDD	CLS		
					27:37		0.76	0.76		1.008				
					27:47		731.78	731.78		1.014				
					28:00		1.32	1.32		1.022				
					28:10		1.08	1.08		1.028				
328	DC	SN			28:41		12.17	12.17			1.047			
					28:57		0.72	0.72			1.057			
		10 Peaks				1,025.70								

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
332-334	DC	NL					Height	0.29	0.20		0.920-1.066			
					26:15	RO	1.29	1.49	0.84	0.65	0.958			
					27:13		0.80	908.27	404.22	504.05	0.993	13C12-1234-TCDD	RS1	
					27:24		0.80	841.69	373.11	468.58	1.000	13C12-2378-TCDD	IS1	
							Height	233.04	102.31	130.73				
					27:46	RO	4.10	4.79	3.85	0.94	1.013			
					28:38	RO	0.61	1.87			1.045			
		4 Peaks				1,756.24								

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

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
340-342	DC	NL					Height	0.17	0.08		0.911-1.036			
					28:30		1.50	29.11	17.47	11.64	0.912			
					28:41		1.40	61.72	36.00	25.72	0.918			
					28:54		1.53	72.11	43.57	28.54	0.925			
					29:07		1.60	28.51	17.55	10.96	0.932			
					29:18		1.32	50.35	28.61	21.74	0.938			
					29:41		1.55	112.85	68.67	44.18	0.950			
					29:53		1.52	508.25	306.72	201.53	0.956			
					30:05		1.53	213.62	129.17	84.45	0.963			
					N	DC	SN			30:28		1.52	384.08	231.65

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.

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
AN					30:35		1.62	4.50	2.78	1.72	1.000	12378-PeCDF	AN	J
					30:45		1.68	15.25	9.56	5.69	0.984			J
					30:51		1.60	15.27	9.40	5.87	0.987			J
					31:10		1.51	12.85	7.73	5.12	0.997			J
					31:15		1.64	14.54	9.03	5.51	1.000	23478-PeCDF	AN	J
					31:27		1.58	34.84	21.35	13.49	1.006			
	X				31:35		1.55	20.35	12.37	7.98	1.011			J
	X				31:44		1.75	1.90	1.21	0.69	1.015			J
					31:51		1.45	33.27	19.69	13.58	1.019			
					32:05		1.49	91.21	54.61	36.60	1.027			
	DC	WH			32:40	RO	0.73	0.64			1.045			
	340-342				19 Peaks			1,704.58						

Compound	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					0.807-1.127				
352-354	DC	NL			Height			0.16	0.07	0.09				
					29:53	RO	0.12	11.61	1.28	10.33	0.956			
					30:12	RO	0.08	19.28	1.47	17.81	0.966			
					30:17	RO	0.51	3.37	1.14	2.23	0.969			
					30:35		1.49	818.55	490.15	328.40	1.000	13C12-PeCDF	123	IS2
					Height			246.55	148.75	97.80				
					31:15		1.48	801.30	478.09	323.21	1.000	13C12-PeCDF	234	IS3
					Height			243.36	145.61	97.75				
					31:34		1.34	3.63	2.08	1.55	1.010			
					31:43	RO	0.50	3.14	1.05	2.09	1.015			
					31:52	RO	0.56	10.57	3.81	6.76	1.020			
					31:58	RO	0.85	2.81	1.29	1.52	1.023			
					32:12	RO	0.88	16.54	7.72	8.82	1.030			
352-354				10 Peaks			1,690.80							

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

Compound	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					0.940-1.021				
356-358	DC	NL			Height			0.15	0.08	0.07				
					30:18	RO	1.20	2.71	1.48	1.23	0.960			
					30:51	RO	2.53	1.41	1.01	0.40	0.977			
					31:07		1.36	4.83	2.78	2.05	0.986			J
					31:35	RO	0.96	3.57	1.75	1.82	1.001	12378-PeCDD	AN	
					31:44	RO	0.25	7.68	1.56	6.12	1.005			
A					31:52	RO	0.90	10.52	4.99	5.53	1.010			
A					32:10	RO	0.85	8.34	3.84	4.50	1.019			
DC	WH				32:38	RO	0.50	0.36		1.034				
356-358				7 Peaks			39.06							

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
13C12-PeCDD					1.32-1.78					0.735-1.052				
368-370	DC	NL			Height			0.15	0.09	0.06				
					30:31		1.37	1.54	0.89	0.65	0.967			
					30:39		1.48	3.00	1.79	1.21	0.971			
					31:34		1.46	550.12	326.36	223.76	1.000	13C12-PeCDD	123	IS4
					Height			168.52	100.57	67.95				
					31:52		1.43	1.80	1.06	0.74	1.010			
					31:57	RO	1.04	0.98	0.50	0.48	1.012			
					32:13	RO	0.48	1.80	0.58	1.22	1.021			

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.

368-370 6 Peaks 559.24

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

HxCDF	DC	NL	Height	0.43	0.22	0.21	0.929-1.007			
374-376			32:53	1.23	4.86	2.68	2.18	0.930		J
		X	33:03	1.30	57.38	32.45	24.93	0.934		
			33:09	1.28	105.26	59.17	46.09	0.937		
			33:17	1.27	56.56	31.60	24.96	0.941		
			33:25	1.25	26.68	14.84	11.84	0.945		
			33:36	1.24	208.93	115.50	93.43	0.950		
			33:48	1.26	37.33	20.84	16.49	0.956		
NM			33:55	1.24	164.00	90.90	73.10	0.999		
AN			33:59	1.22	3.09	1.70	1.39	1.000	123478-HxCDF	AN J
			34:04	1.28	15.33	8.60	6.73	1.000	123678-HxCDF	AN J
			34:10	1.32	4.81	2.74	2.07	0.966		J
			34:22	1.40	2.16	1.26	0.90	0.972		J
			34:35	1.28	14.23	7.99	6.24	1.000	234678-HxCDF	AN J
			35:17	RO 0.61	3.21	1.21	2.00	0.998		
			35:25	1.35	10.20	5.86	4.34	1.001		J
	DC	SN	35:32	RO 0.72	0.62			1.005		
	DC	WH	35:37	RO 2.70	0.37			1.007		
374-376			15 Peaks		714.03					

13C12-HxCDF	DC	NL	Height	0.43	0.17	0.26	0.879-1.105			
384-386			33:01	0.53	1.47	0.51	0.96	0.934		
			33:08	RO 0.66	2.12	0.84	1.28	0.937		
			33:58	0.51	790.29	266.15	524.14	1.000	13C12-HxCDF 478	ISS
				Height	249.90	84.96	164.94			
			34:04	0.51	798.52	270.04	528.48	1.000	13C12-HxCDF 678	IS6
				Height	249.17	83.52	165.65			
			34:24	RO 1.07	1.72	0.89	0.83	0.973		
			34:34	0.51	757.43	257.07	500.36	1.000	13C12-HxCDF 234	IS7
				Height	230.62	78.41	152.21			
			35:22	0.51	617.87	209.86	408.01	1.000	13C12-HxCDF 789	IS8
				Height	170.08	58.12	111.96			
	DC	SN	35:40	0.57	2.11			1.008		
	DC	SN	35:45	RO 0.88	0.60			1.011		
384-386			7 Peaks		2,969.42					

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

HxCDD	DC	NL	Height	0.31	0.13	0.18	0.959-1.013			
390-392			33:22	RO 1.85	0.37		0.960			
			33:30	1.11	13.73	7.22	6.51	0.964		J
	DC	SN	33:45	RO 0.54	1.08			0.971		
			33:56	1.24	4.63	2.56	2.07	0.976		J
			34:09	1.09	32.48	16.91	15.57	0.982		
			34:19	1.14	1.84	0.98	0.86	0.987		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.

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags	
M					34:41	RO	0.97	1.16	0.57	0.59	1.000	123478-HxCDD	AN		
M					34:47		1.18	8.57	4.64	3.93	1.000	123678-HxCDD	AN	J	
					35:05		1.15	6.15	3.29	2.86	1.009	123789-HxCDD	AN	J	
	DC	WH			35:17	RO	0.91	6.92			1.015				
	DC	WH			35:33	RO	0.88	3.50			1.023				
390-392					7 Peaks			68.56							

Compound	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						0.983-1.041			
402-404	DC	NL			Height			0.37	0.23	0.14				
					34:09		1.27	1.66	0.93	0.73	0.985			
					34:40		1.22	485.20	266.78	218.42	1.000	13C12-HxCDD	478	IS9
					Height			153.03	84.72	68.31				
					34:46		1.23	542.60	299.21	243.39	1.000	13C12-HxCDD	678	IS10
					Height			166.93	91.40	75.53				
					35:05		1.19	578.61	314.70	263.91	1.012	13C12-HxCDD	789	RS2
402-404					4 Peaks			1,608.07						

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

Compound	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						0.955-1.005			
408-410	DC	NL			Height			0.23	0.12	0.11				
	D	WL			36:53	RO	2.03	4.97			0.955			
					37:03		1.08	366.35	190.41	175.94	1.000	1234678-HpCDF	AN	
					37:19		1.16	2.96	1.59	1.37	0.966			J
					37:28		1.07	171.09	88.43	82.66	0.970			
					38:38		1.07	6.80	3.51	3.29	1.000	1234789-HpCDF	AN	J
408-410					4 Peaks			547.20						

Compound	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						0.856-1.141			
418-420	DC	NL			Height			0.21	0.11	0.10				
					37:02		0.44	486.71	149.12	337.59	1.000	13C12-HpCDF	678	IS11
					Height			131.79	41.01	90.78				
					37:27	RO	0.61	1.24	0.47	0.77	0.969			
					38:38		0.44	351.65	106.95	244.70	1.000	13C12-HpCDF	789	IS12
					Height			79.42	24.78	54.64				
	DC	SN			39:00	RO	0.30	1.00			1.009			
418-420					3 Peaks			839.60						

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

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
HpCDD					0.88-1.20						0.976-1.005			
424-426	DC	NL			Height			0.19	0.09	0.10				
					37:20		1.01	46.29	23.26	23.03	0.979			
					38:07		1.04	44.20	22.50	21.70	1.000	1234678-HpCDD	AN	
424-426					2 Peaks			90.49						

Compound	QC	Log	Omit	Why	RT	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name	ID	Flags
13C12-HpCDD					0.88-1.20						0.868-1.078			
436-438	DC	NL			Height			0.73	0.51	0.22				
					37:28	RO	9.08	15.73	14.17	1.56	0.983			
					37:50	RO	3.21	8.05	6.14	1.91	0.993			
					38:07		1.05	404.58	207.16	197.42	1.000	13C12-HpCDD	678	IS13
					Height			98.14	49.91	48.23				

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.

436-438 3 Peaks 428.36

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

OCDF		0.76-1.02				0.952-1.048		
442-444	DC NL	Height	0.16	0.08	0.08			
	DC WL 36:42	0.99	1.61			0.876		
	DC WL 36:53	1.00	0.36			0.880		
	DC WL 36:59 RO	0.70	0.34			0.883		
	DC WL 37:04 RO	1.60	0.26			0.885		
	DC WL 37:46 RO	1.35	0.40			0.901		
		42:08	0.87	55.77	25.99	29.78	1.006	OCDF AN
	DC SN 42:23 RO	1.70	0.27			1.012		
	DC SN 42:27 RO	0.31	0.34			1.013		
	DC SN 42:47 RO	4.80	0.29			1.021		
	DC WH 44:31 RO	1.59	0.44			1.062		
	DC WH 44:40 RO	0.36	0.15			1.066		
442-444	1 Peak		55.77					

OCDD		0.76-1.02				0.952-1.048		
458-460	DC NL	Height	0.12	0.07	0.05			
		41:55	0.86	340.35	157.17	183.18	1.000	OCDD AN
		42:18 RO	0.59	0.62	0.23	0.39	1.010	
458-460	2 Peaks		340.97					

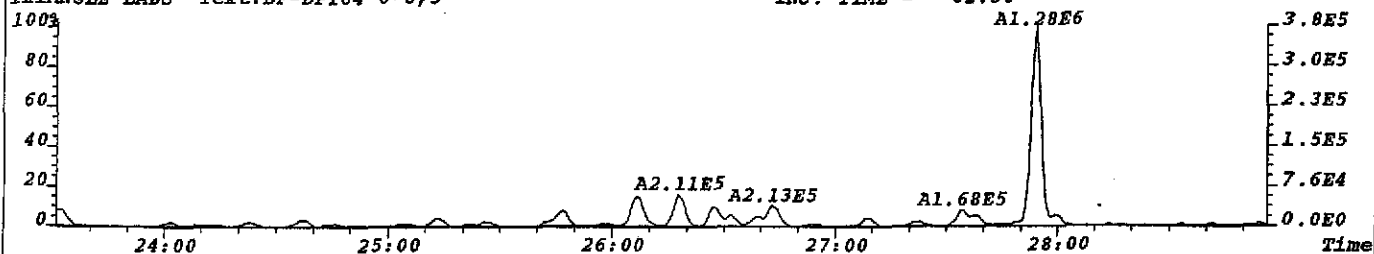
13C12-OCDD		0.76-1.02				0.996-1.004		
470-472	DC NL	Height	0.38	0.26	0.12			
		41:54	0.85	474.22	218.15	256.07	1.000	13C12-OCDD IS14
			Height	95.60	42.97	52.63		
	DC WH 42:18 RO	1.18	1.22			1.010		
470-472	1 Peak		474.22					

Column Description..... "Why" Code Description..... QC Log Desc.....

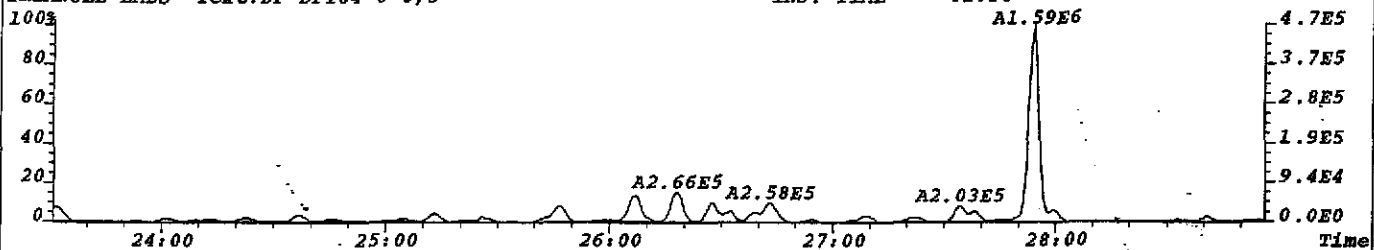
M_Z	-Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT.	-Retention Time. (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1	-Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK	-RO=Ratio Outside Limits	<M-Below Method Detection Limit	T-Time Changed
Rel.RT	-Relative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

*** End of Report ***

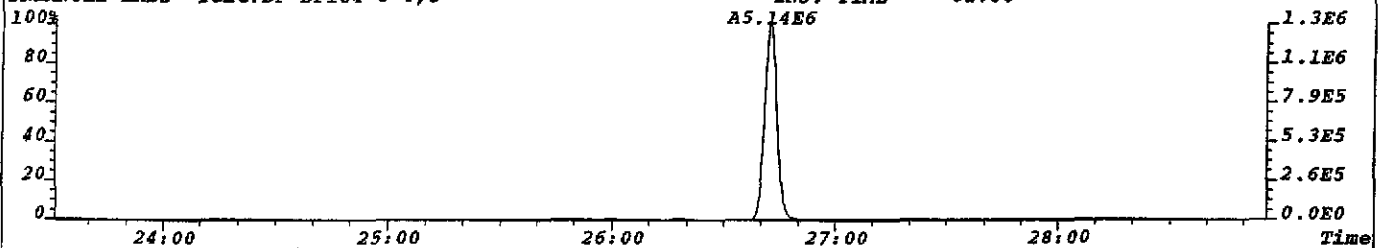
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:134
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,536.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



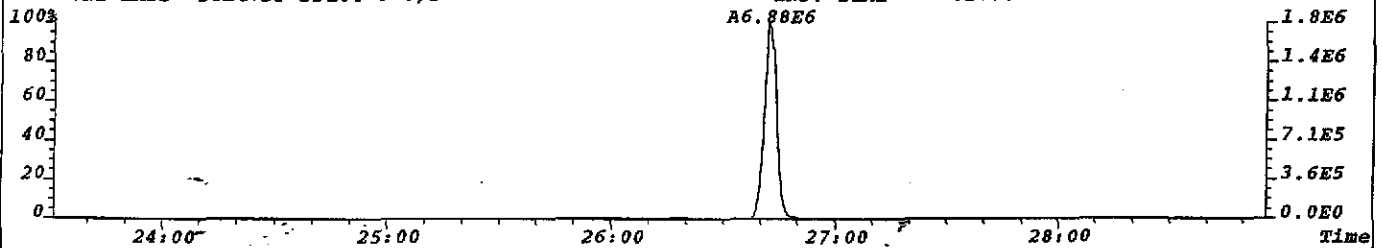
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:114
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,456.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



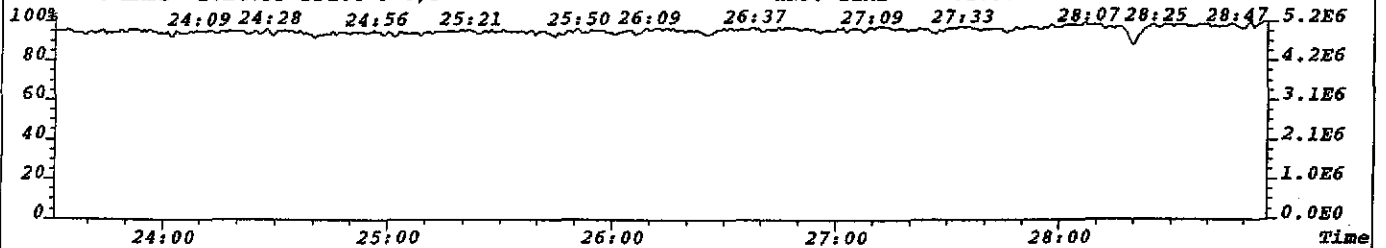
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315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,488.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



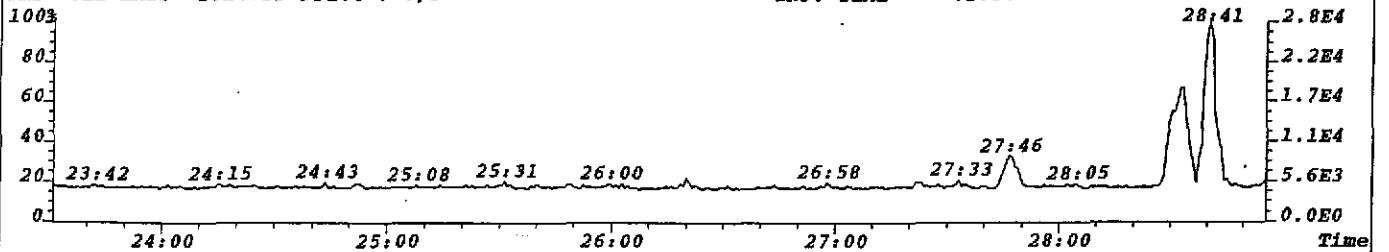
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:143
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,572.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



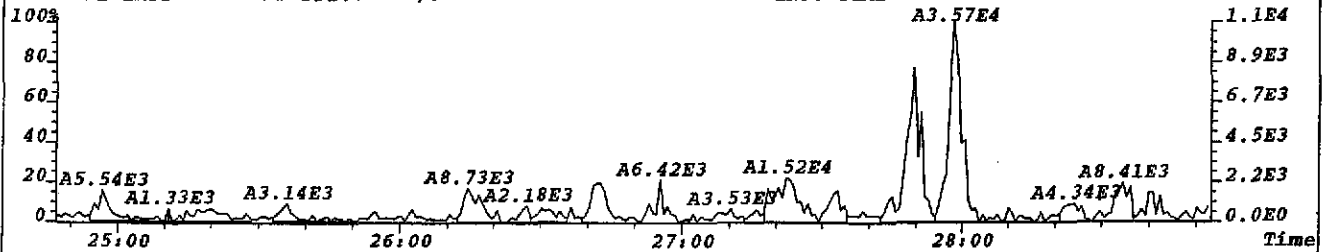
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



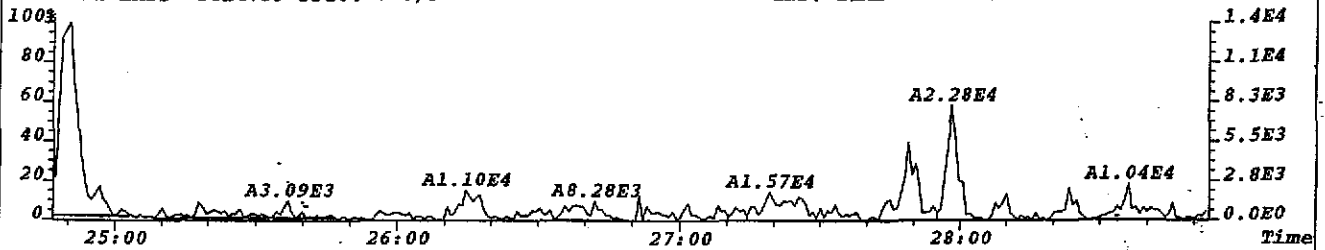
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



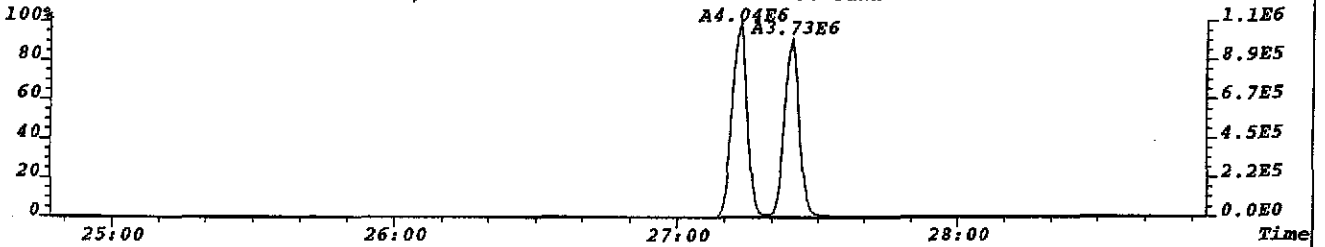
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:96
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,384.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



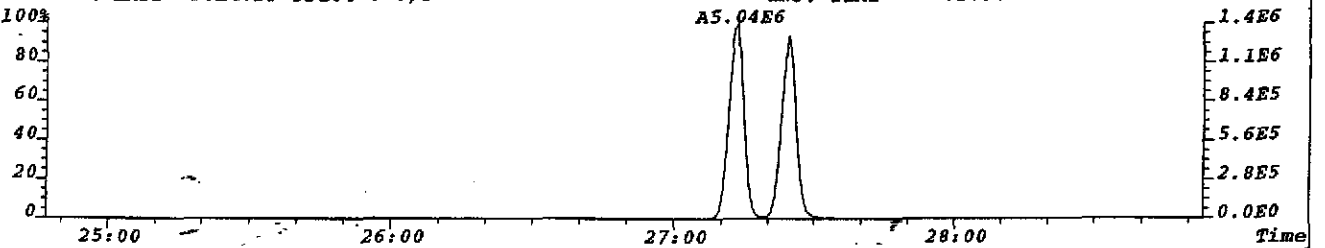
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321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,404.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



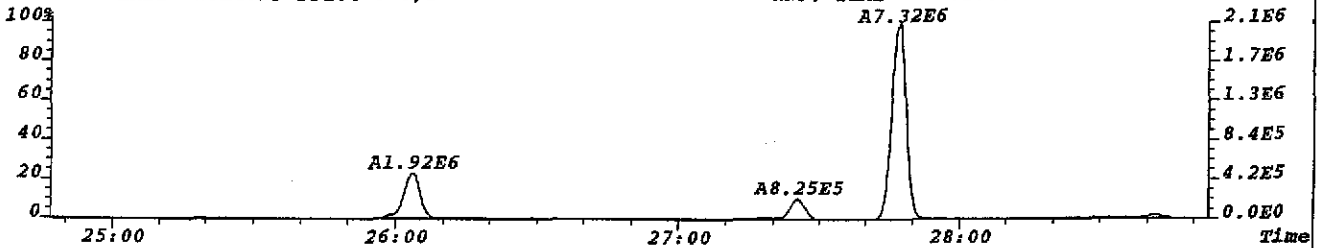
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:248
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,992.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



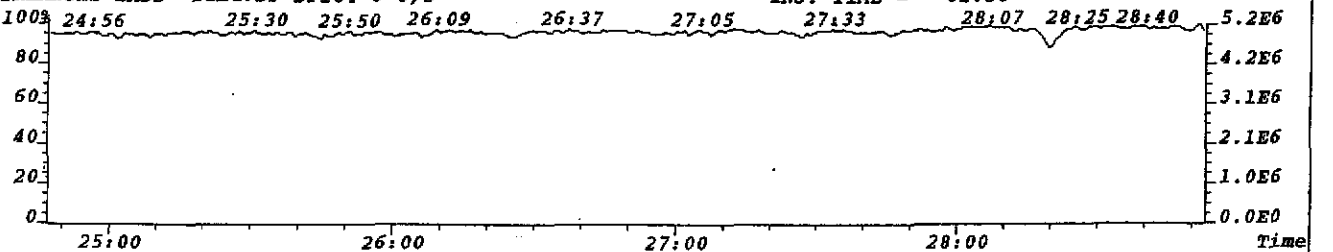
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:108
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,432.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



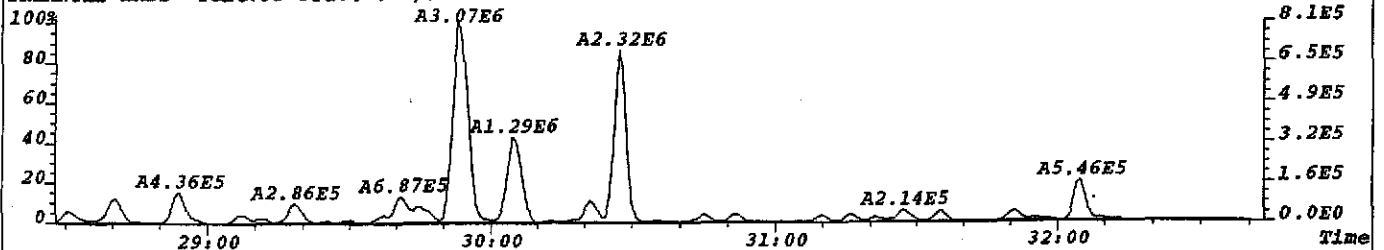
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:112
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,448.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



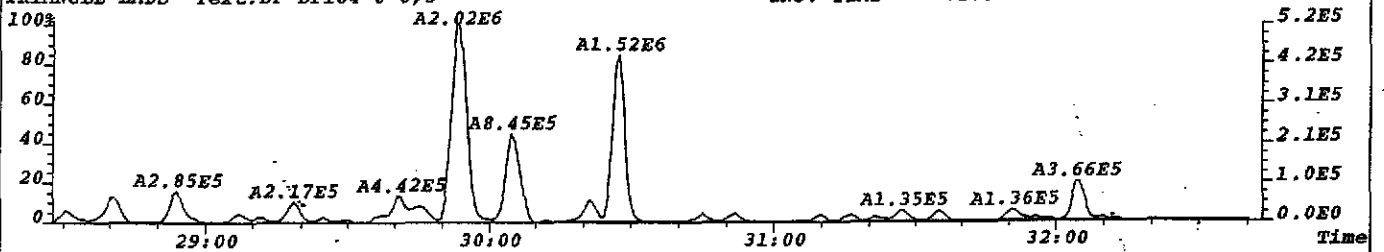
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



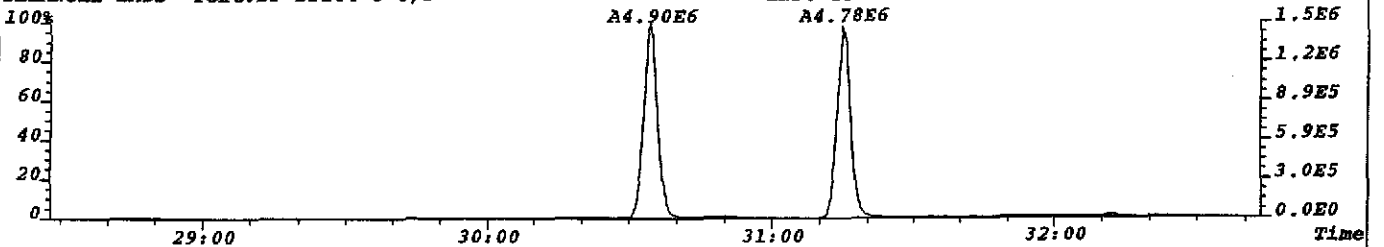
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:105
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,420.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



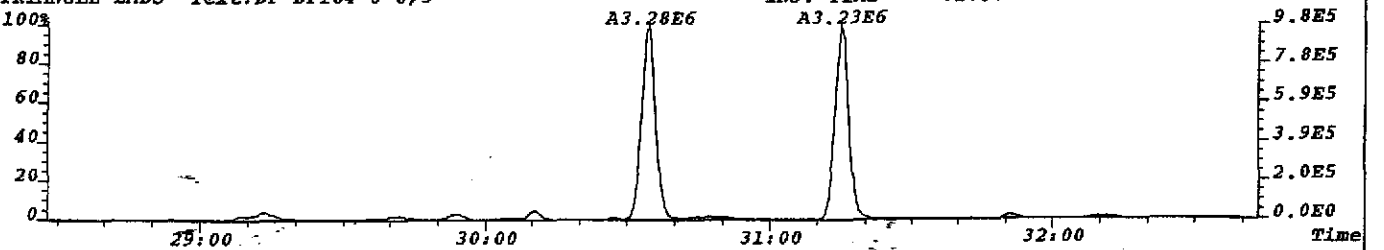
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341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,460.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



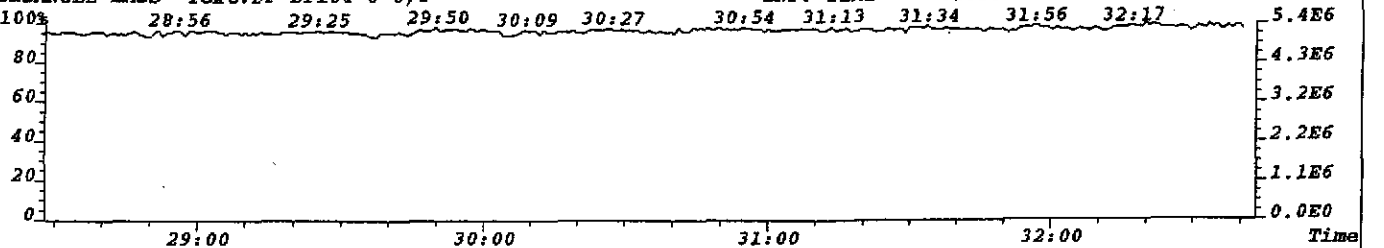
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:91
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,364.0,1.00%,F,T) Exp:NDB5US
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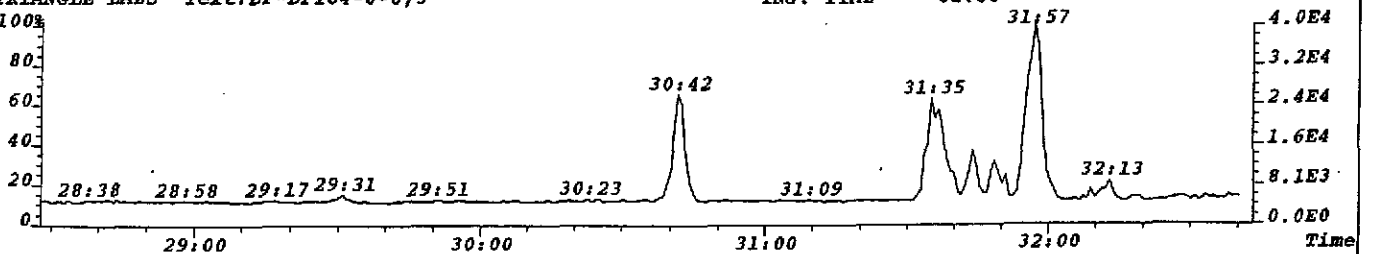
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:112
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,448.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30

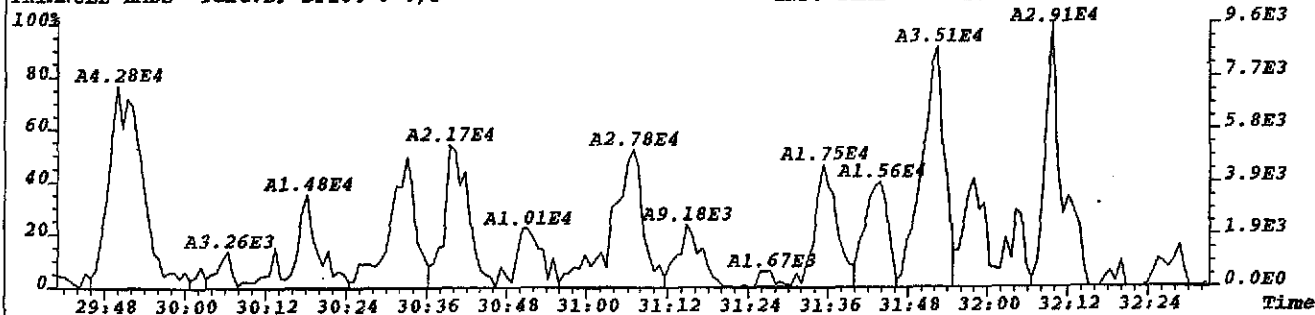


File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



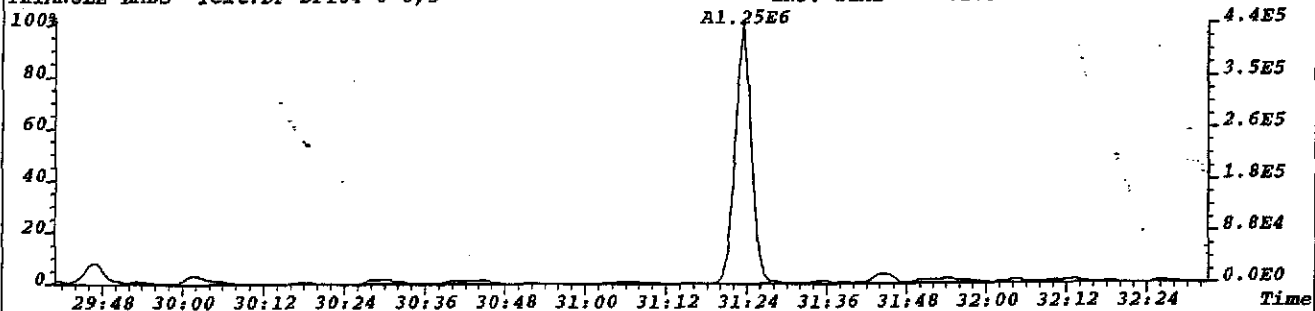
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SLE 70T Noise:103
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,412.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5'

INJ. TIME = 02:30



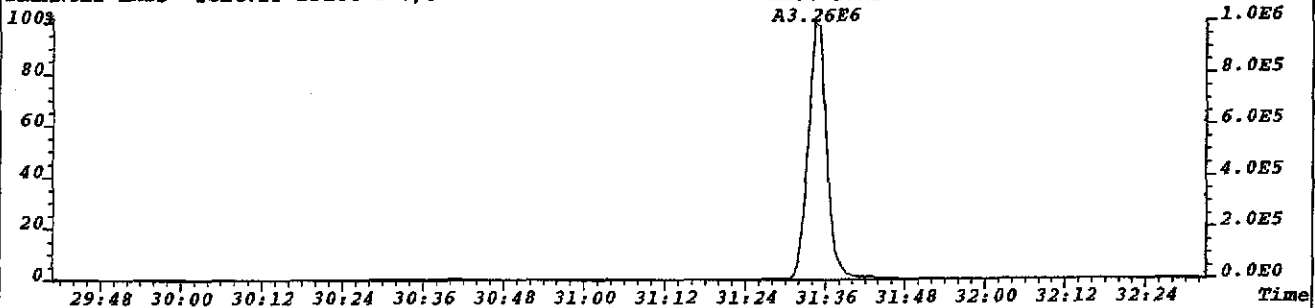
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357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,360.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5'

INJ. TIME = 02:30



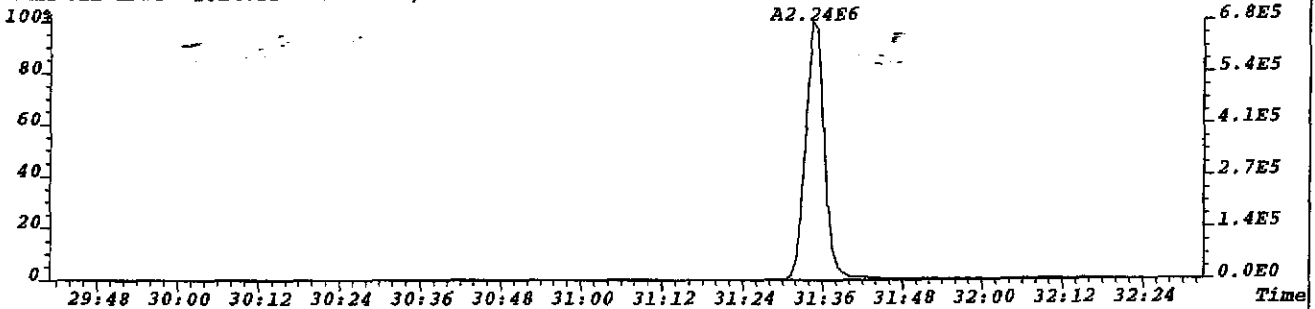
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:110
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,440.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5'

INJ. TIME = 02:30



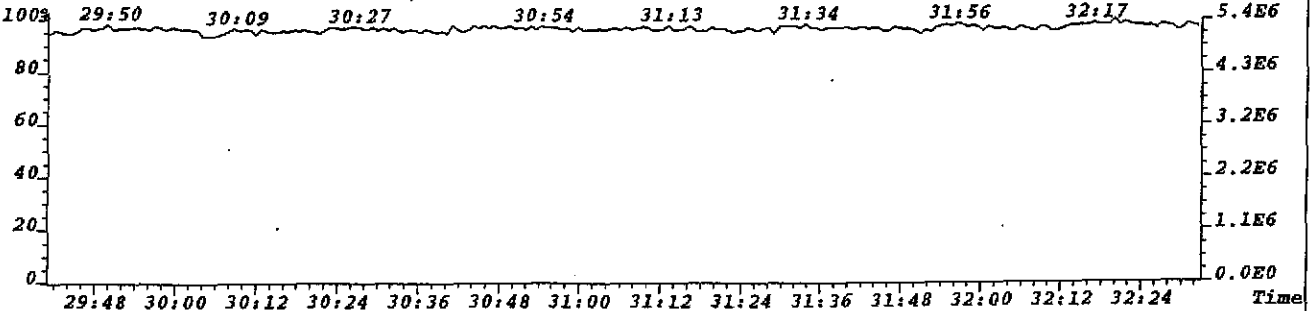
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369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,312.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5'

INJ. TIME = 02:30

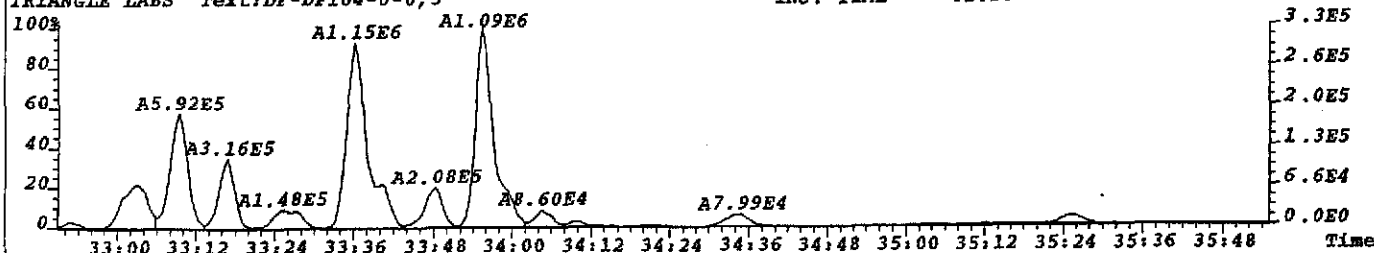


File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5'

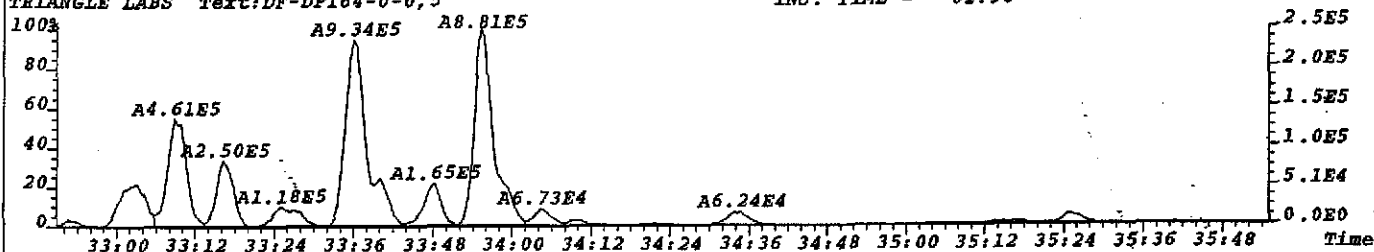
INJ. TIME = 02:30



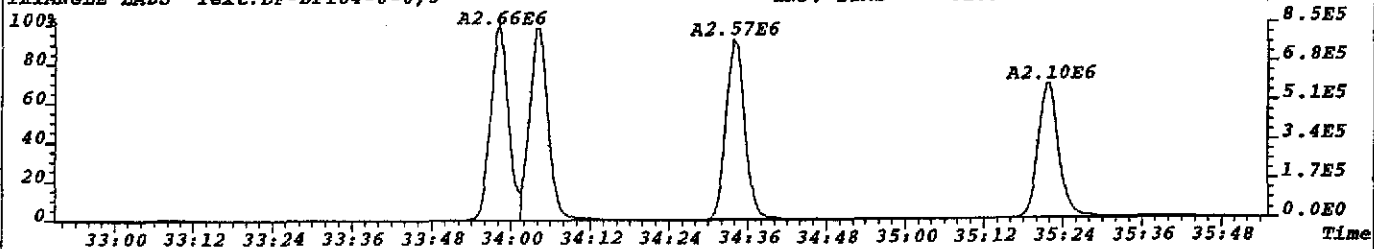
File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:273
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1092.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



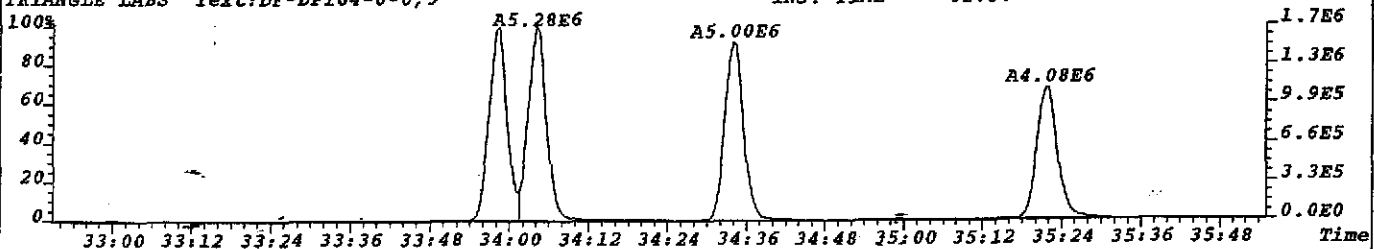
File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:259
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1036.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



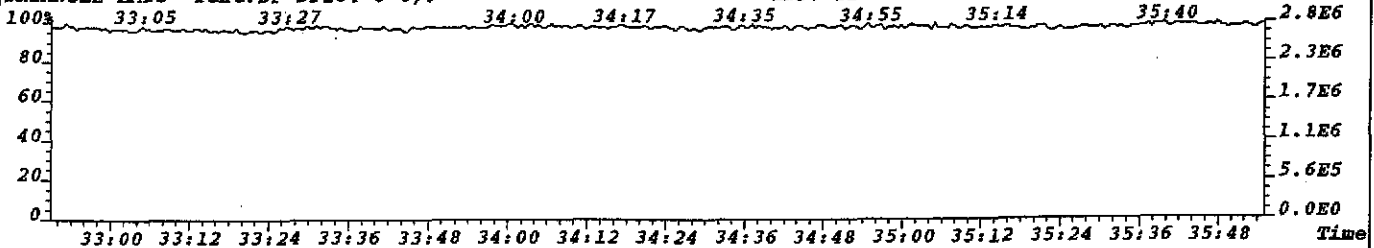
File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:207
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,828.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



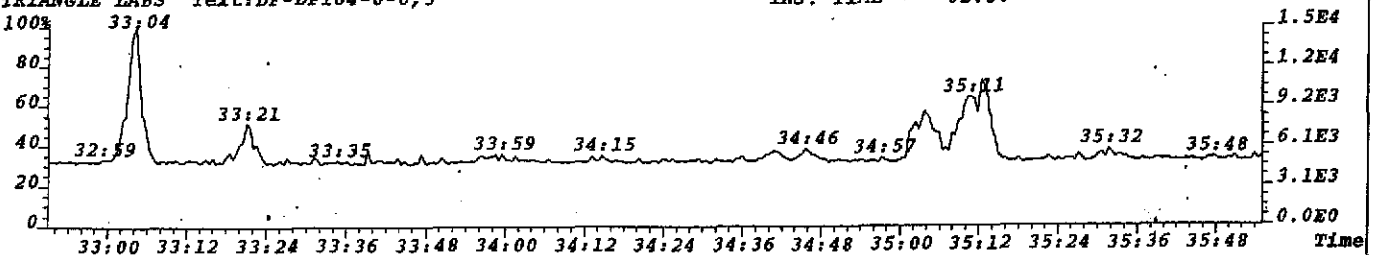
File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:329
385.8610 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



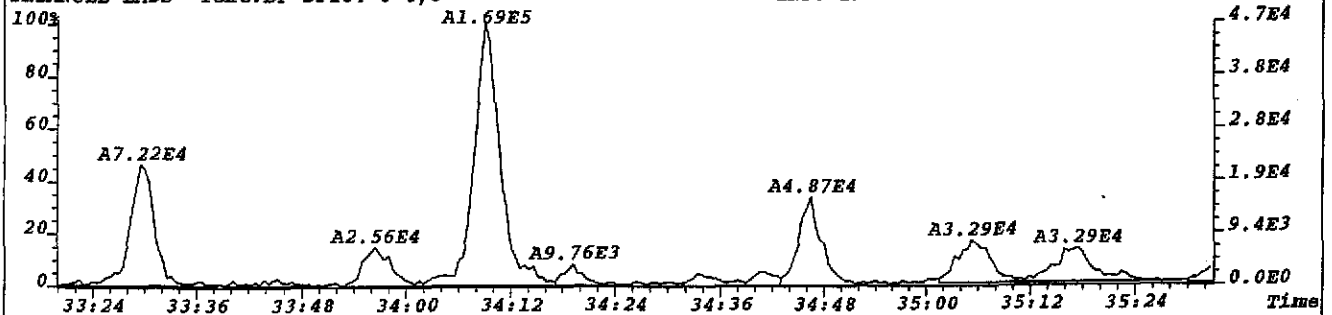
File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



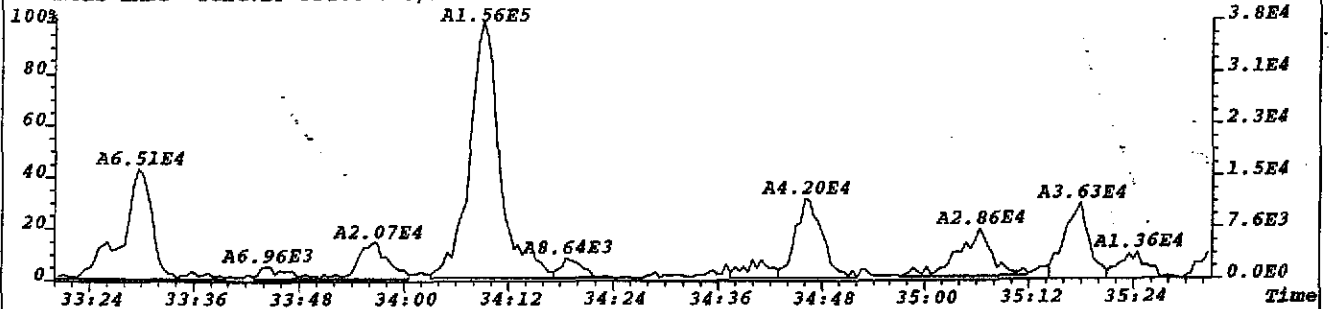
File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



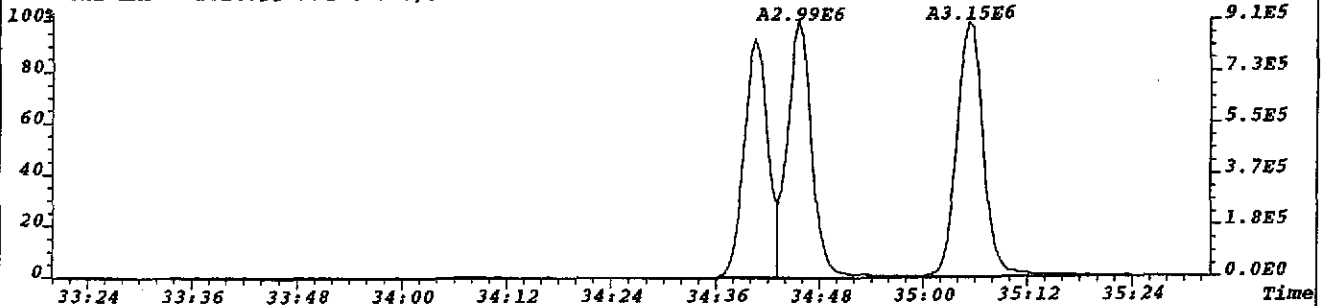
File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:164
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,656.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



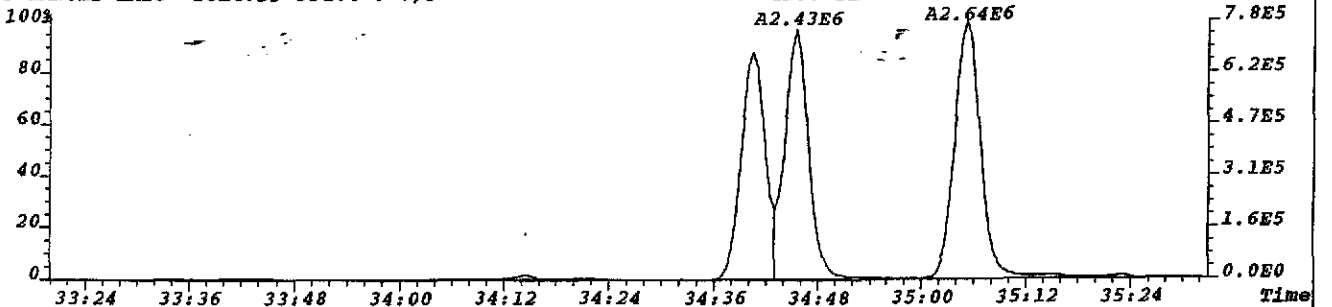
File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:228
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,912.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



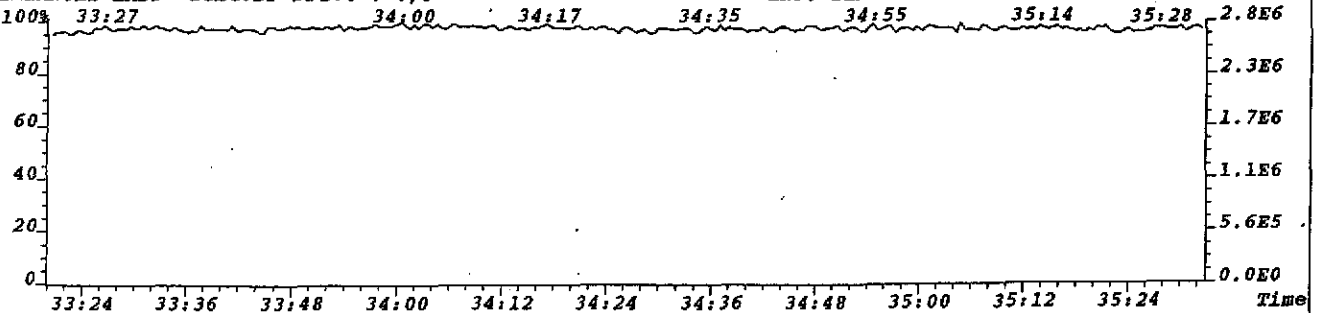
File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:283
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1132.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



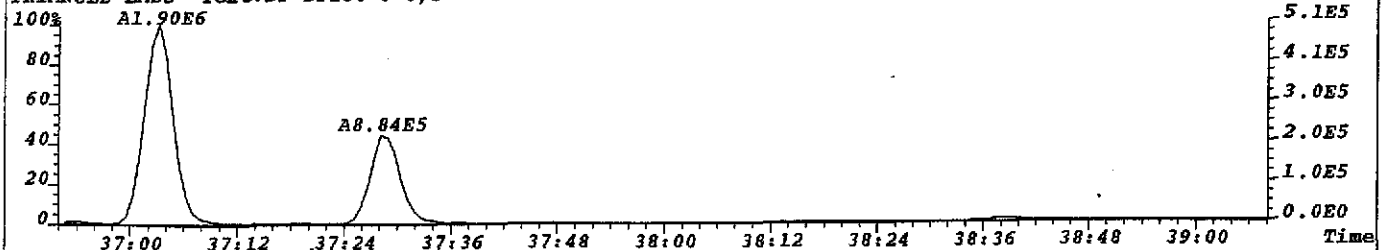
File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:173
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,692.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



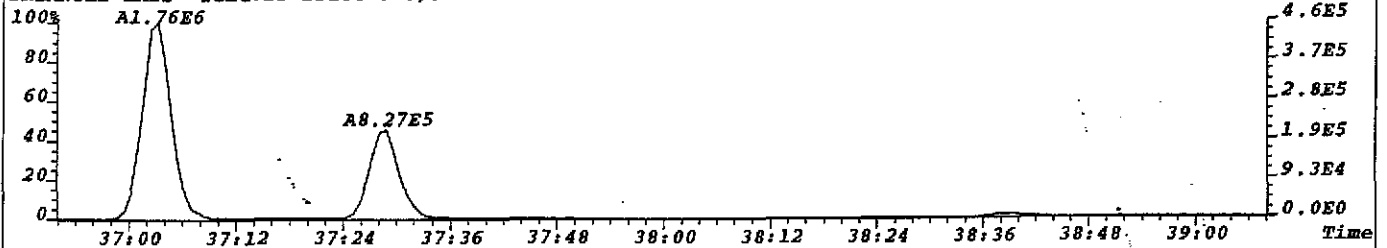
File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



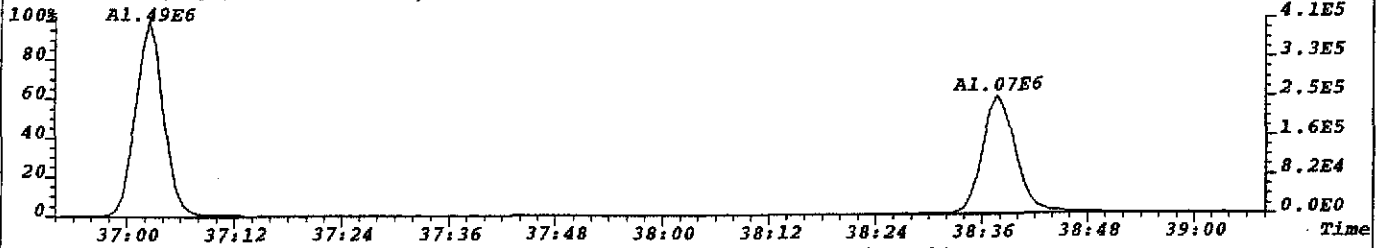
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:147
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,588.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



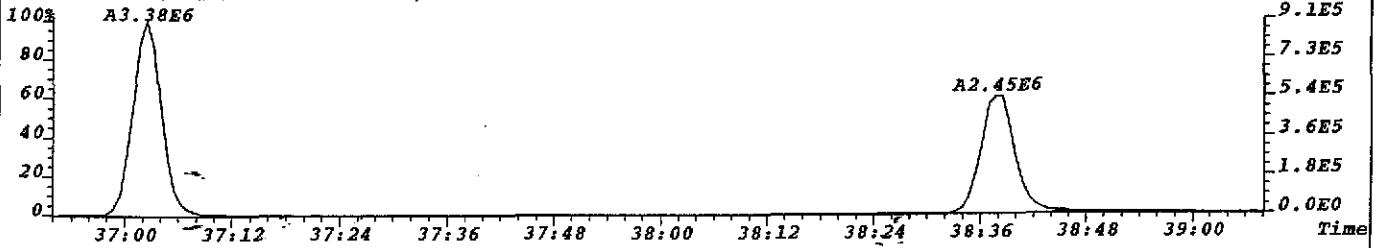
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:134
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,536.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



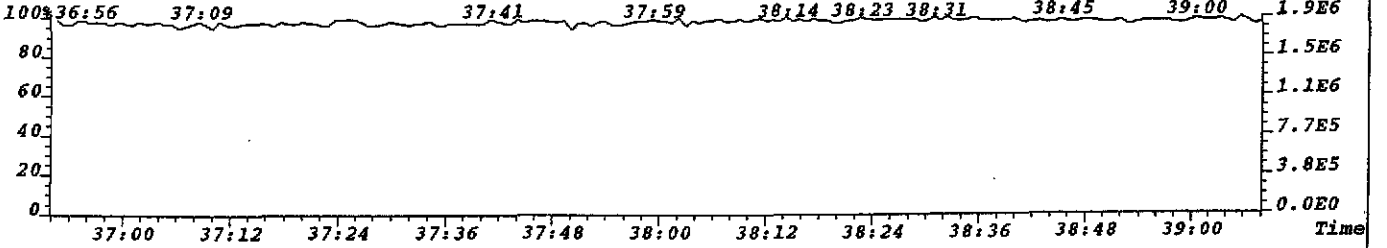
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:139
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,556.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



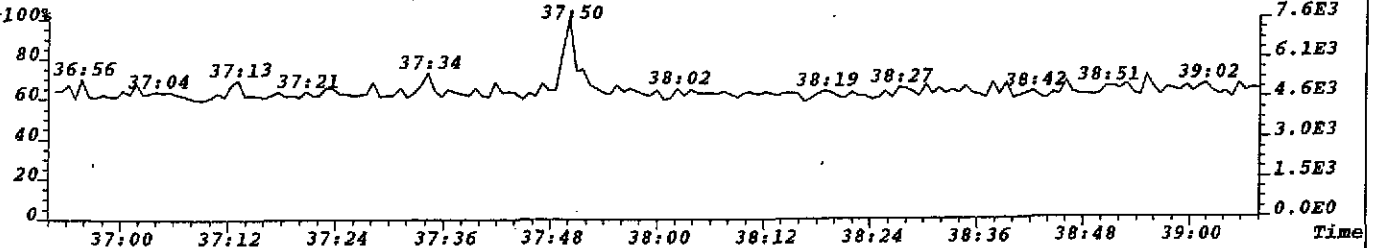
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:124
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,496.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



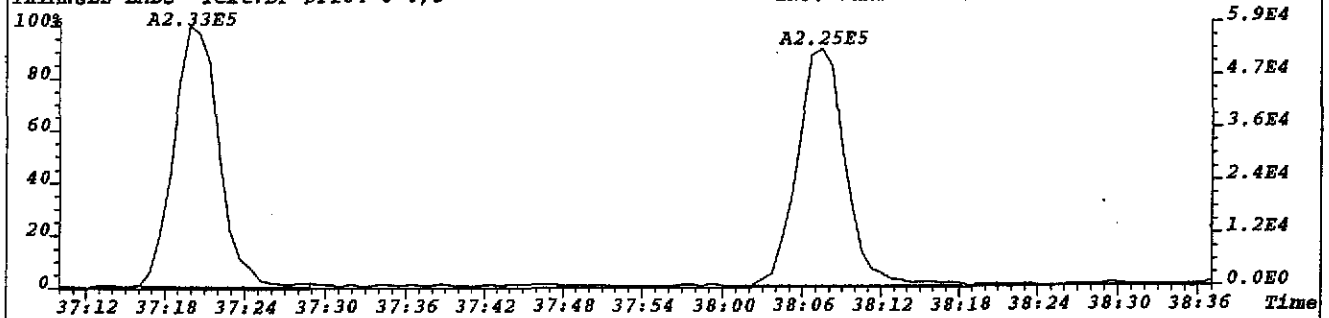
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



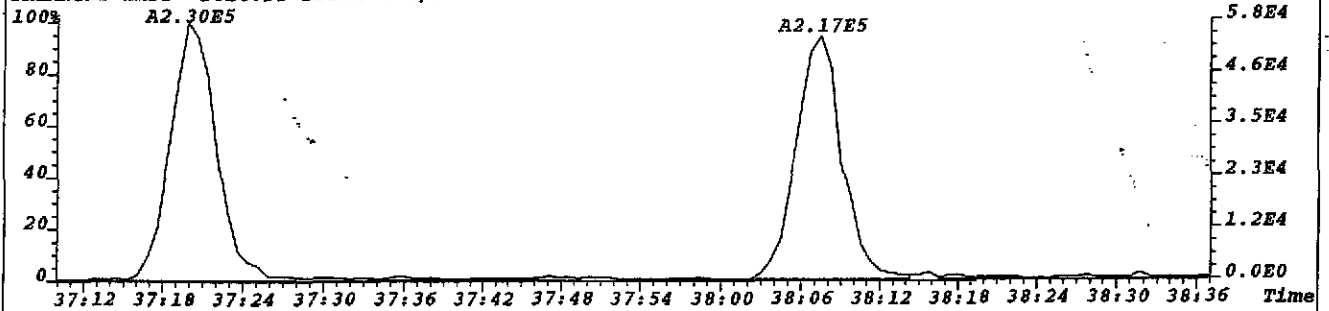
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



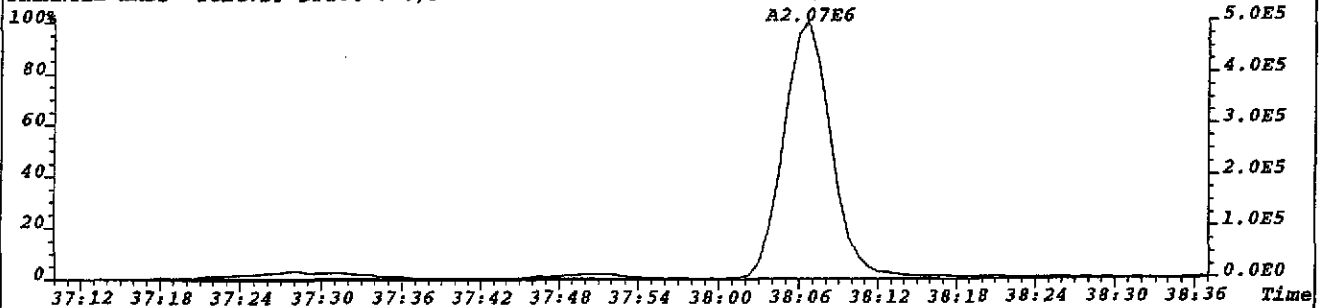
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:115
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,460.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



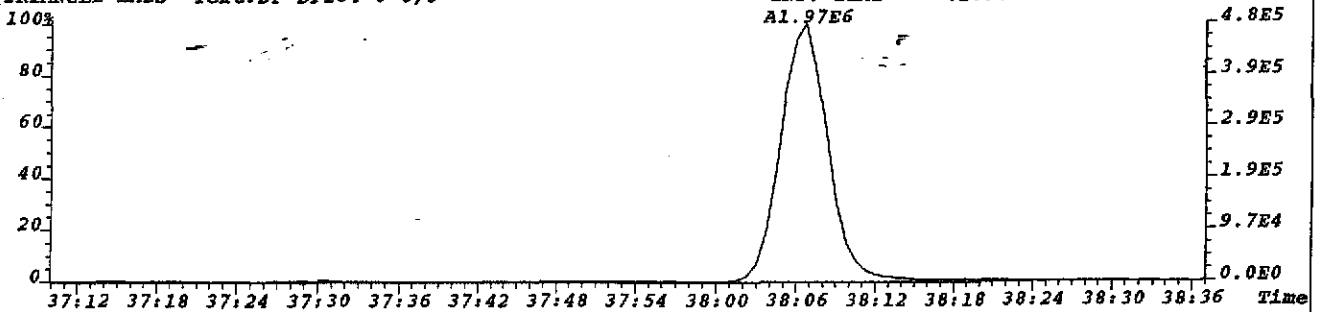
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:129
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,516.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



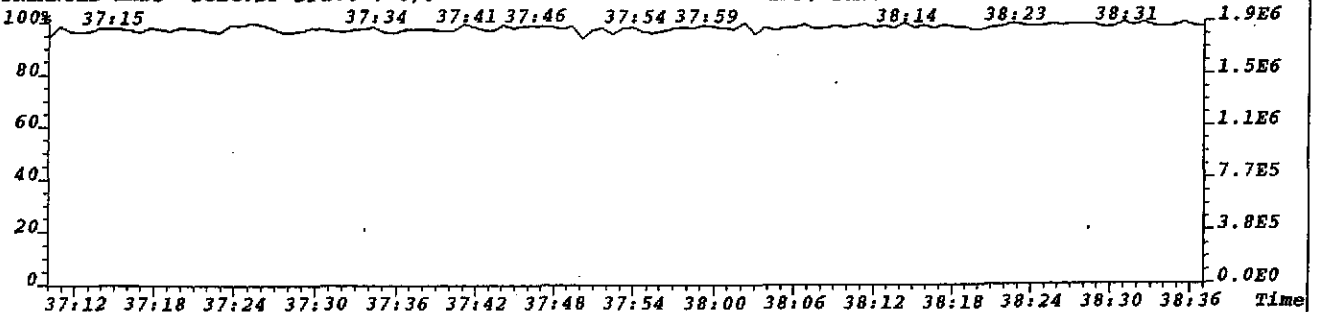
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:643
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,2572.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



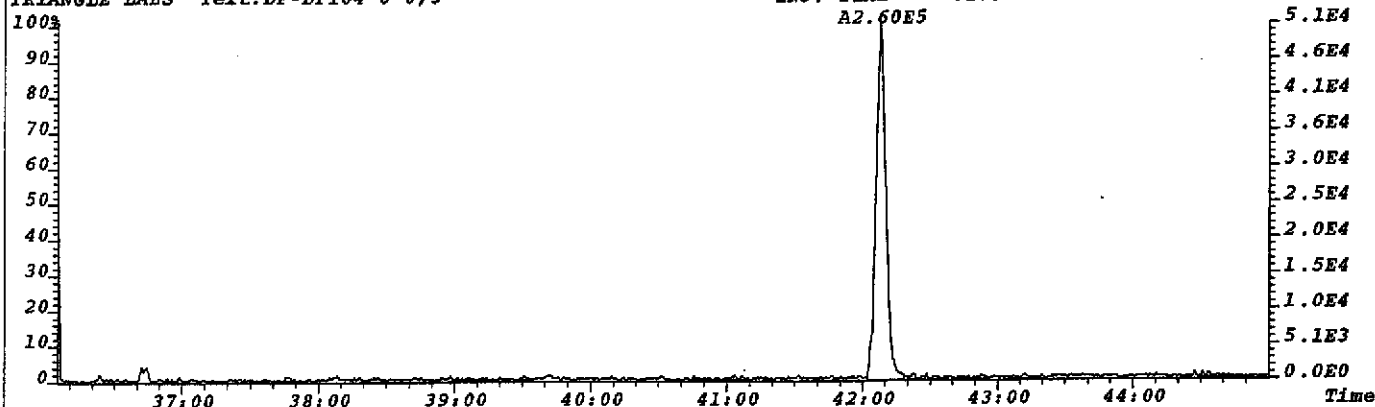
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:278
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1112.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



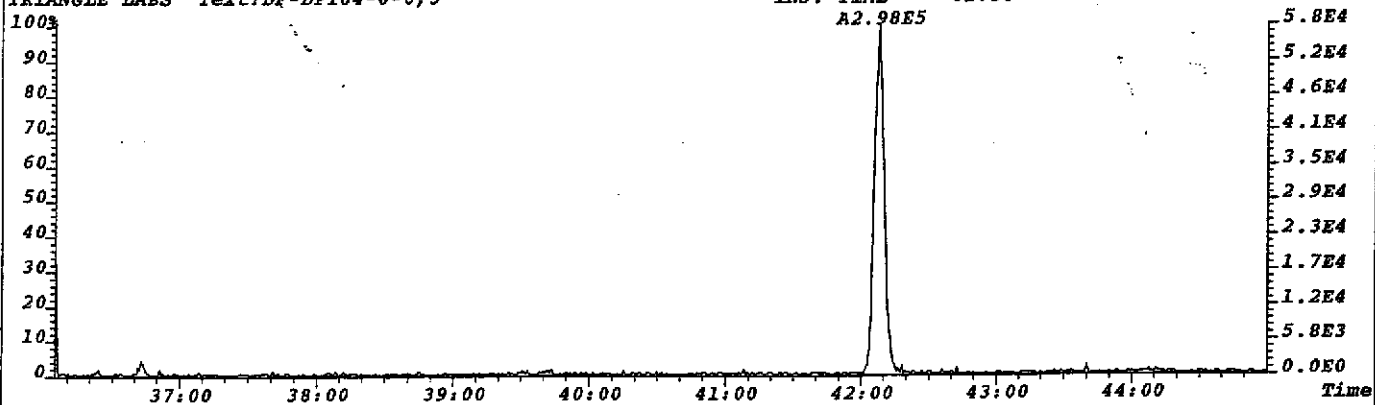
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



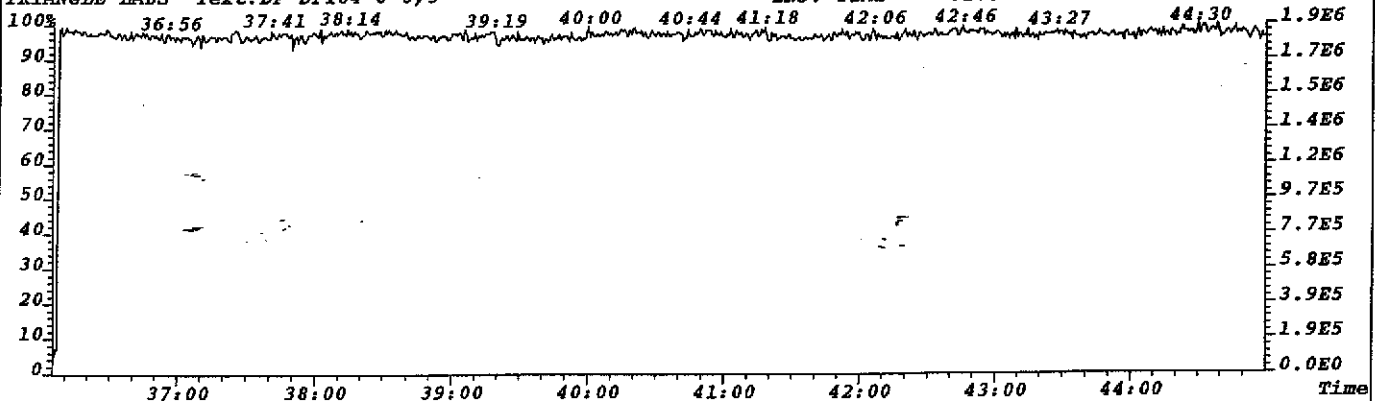
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:106
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,424.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



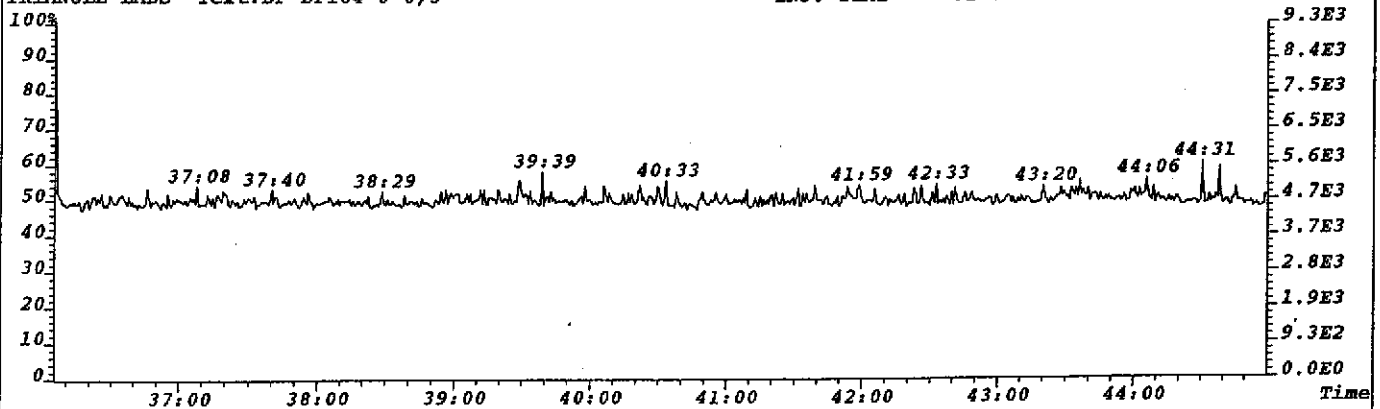
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:97
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



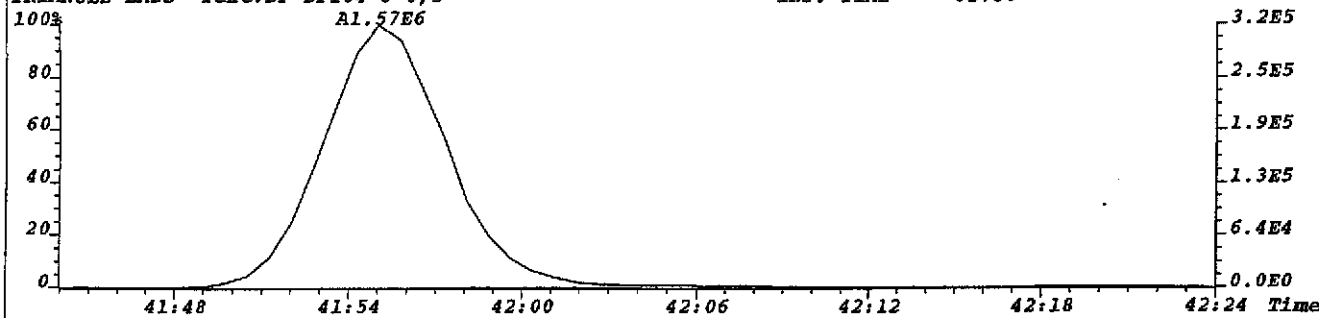
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



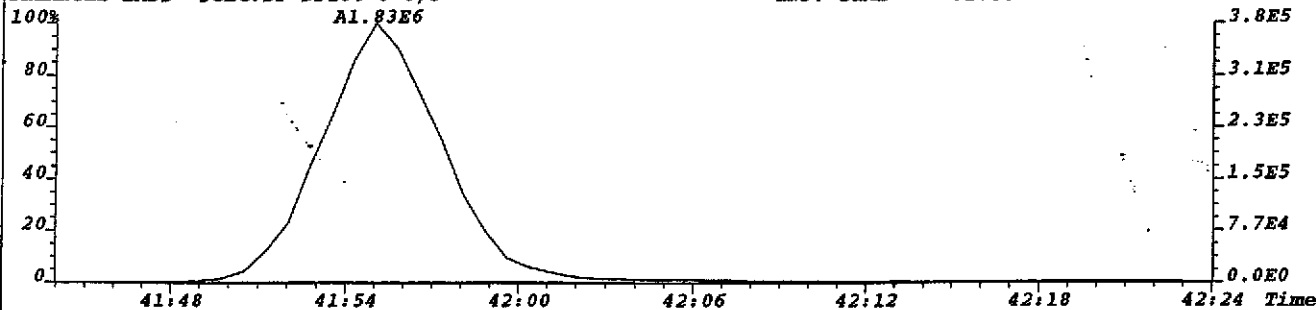
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



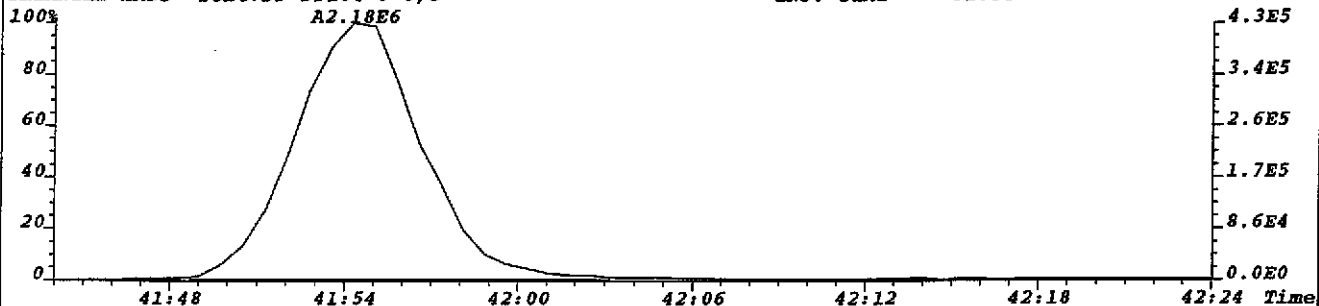
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:82
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



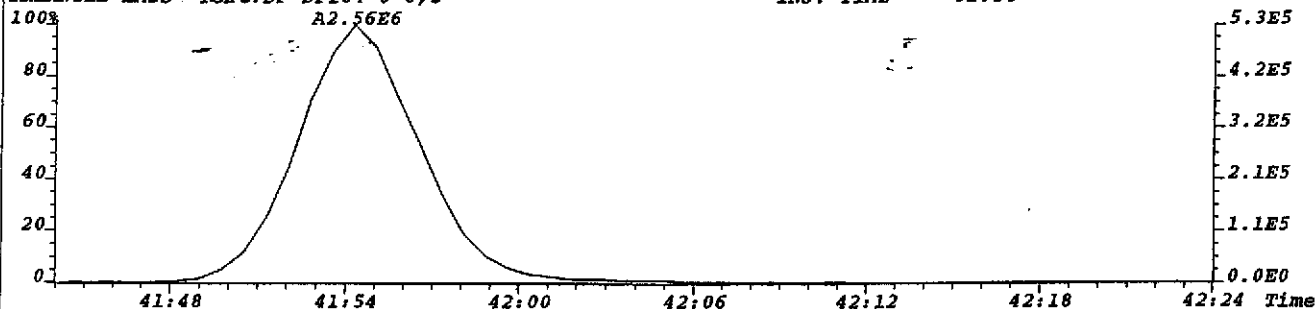
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:67
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



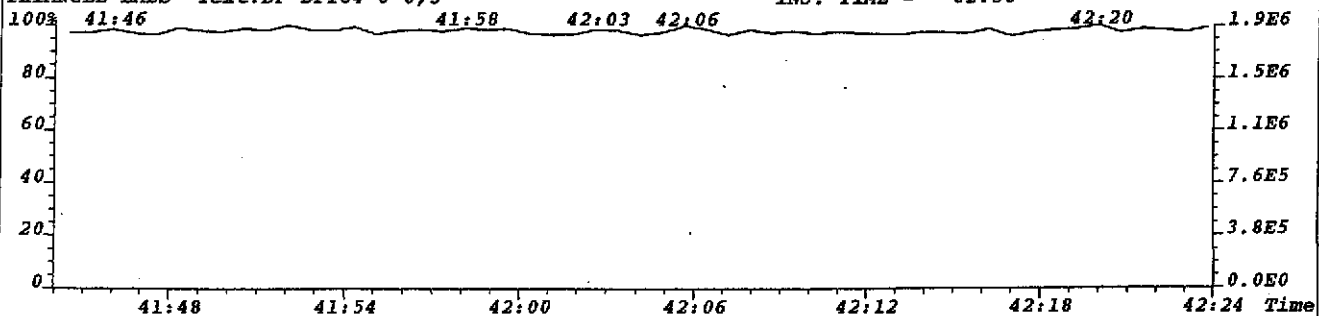
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:327
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30

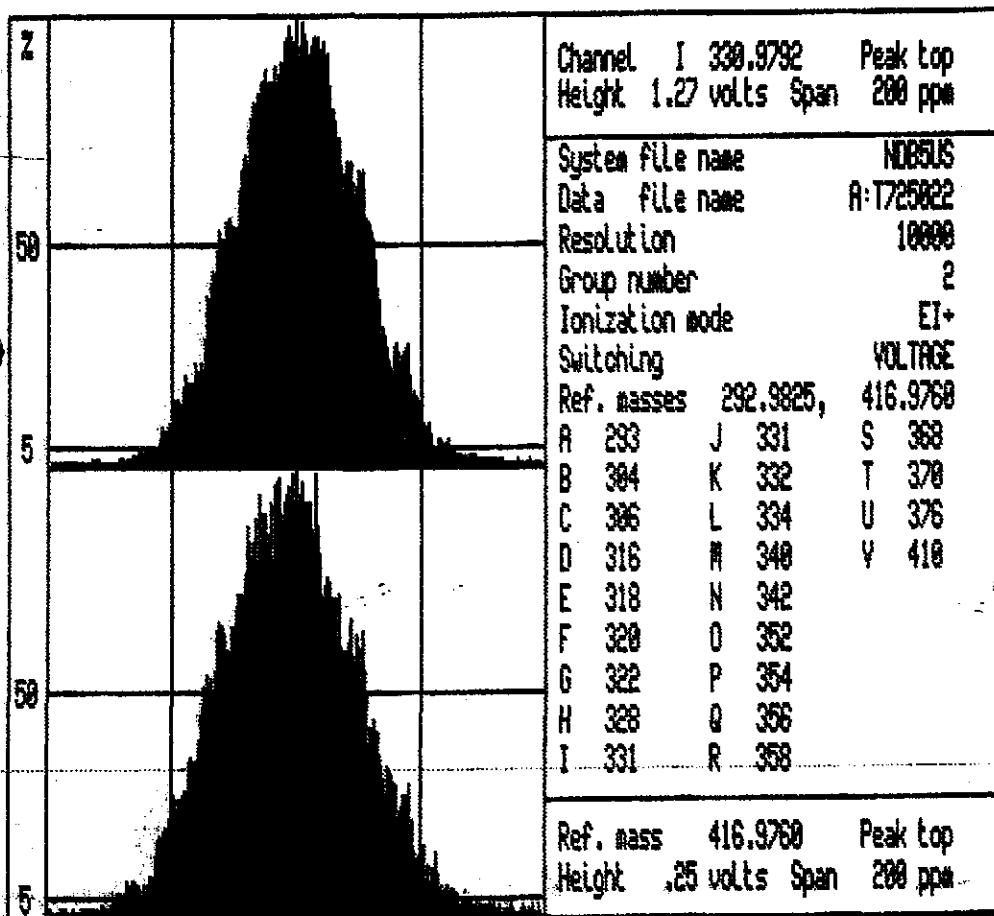


File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T Noise:149
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,596.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



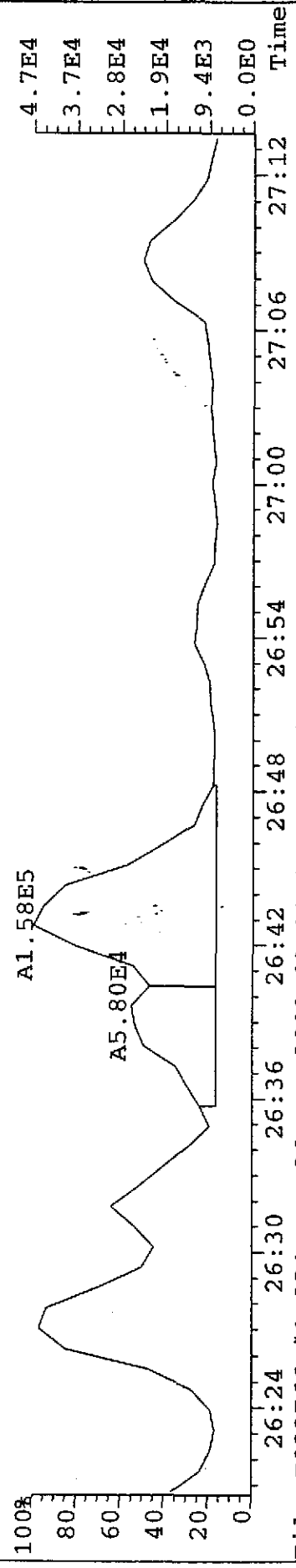
File:T023766 #1-708 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0-0,5' INJ. TIME = 02:30



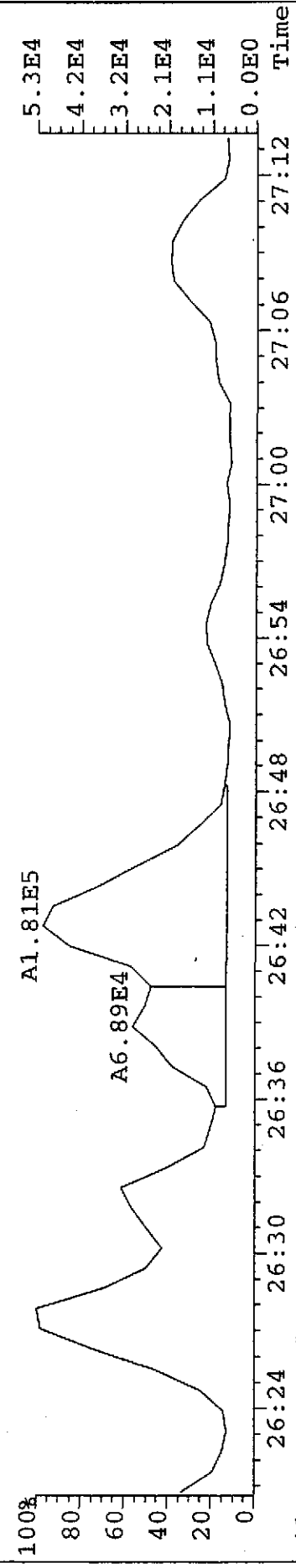


DEM 7100102

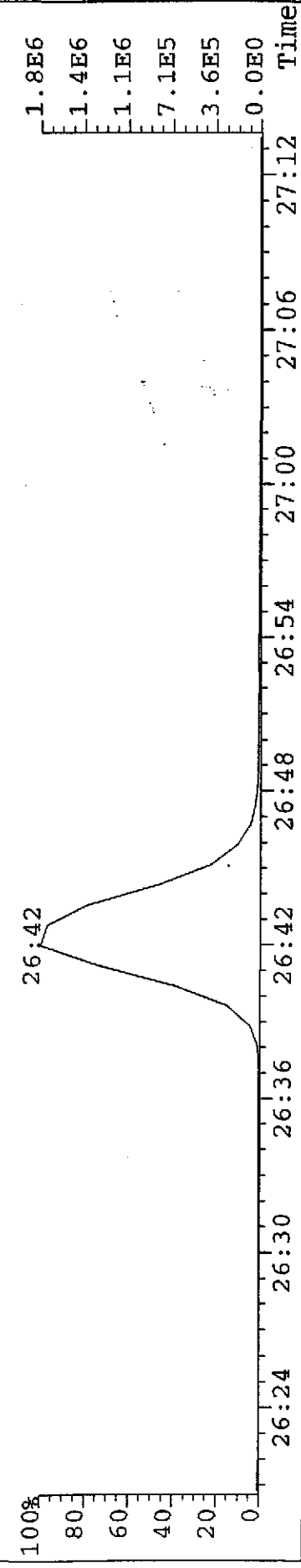
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
303.9016 F:2 Exp:NDB5US



File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
305.8987 F:2 Exp:NDB5US

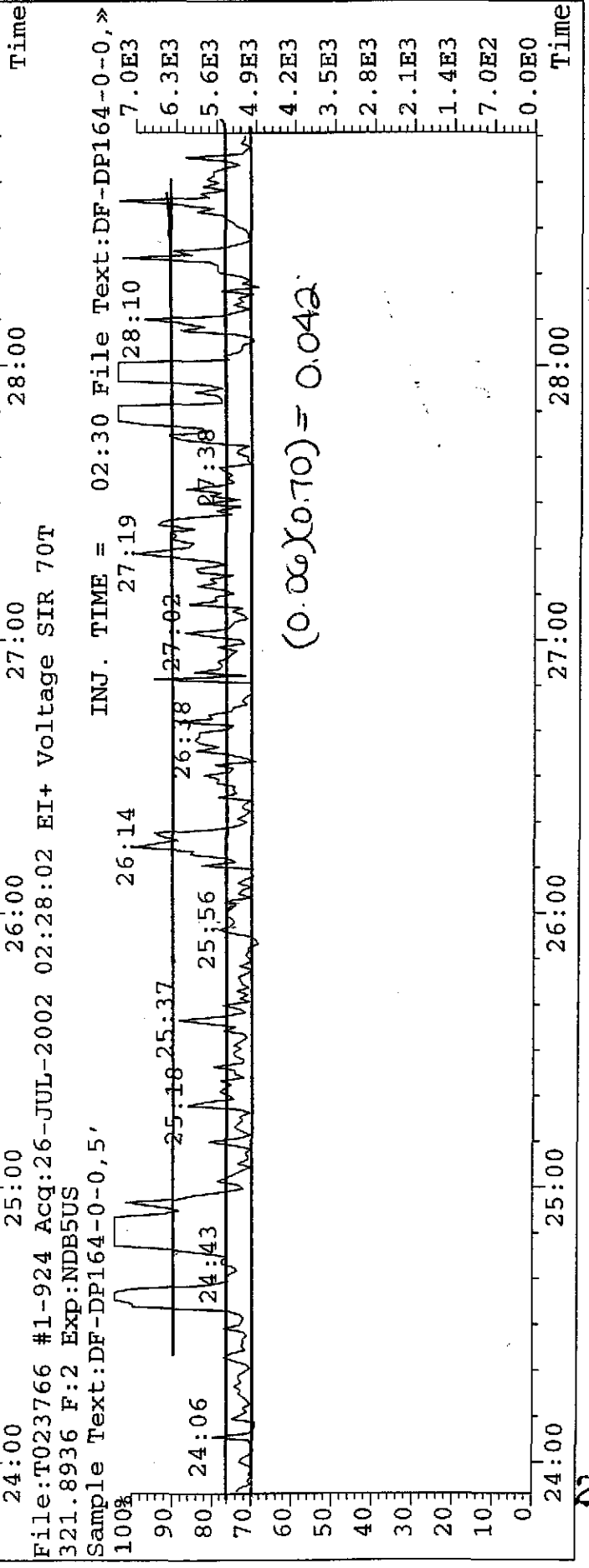
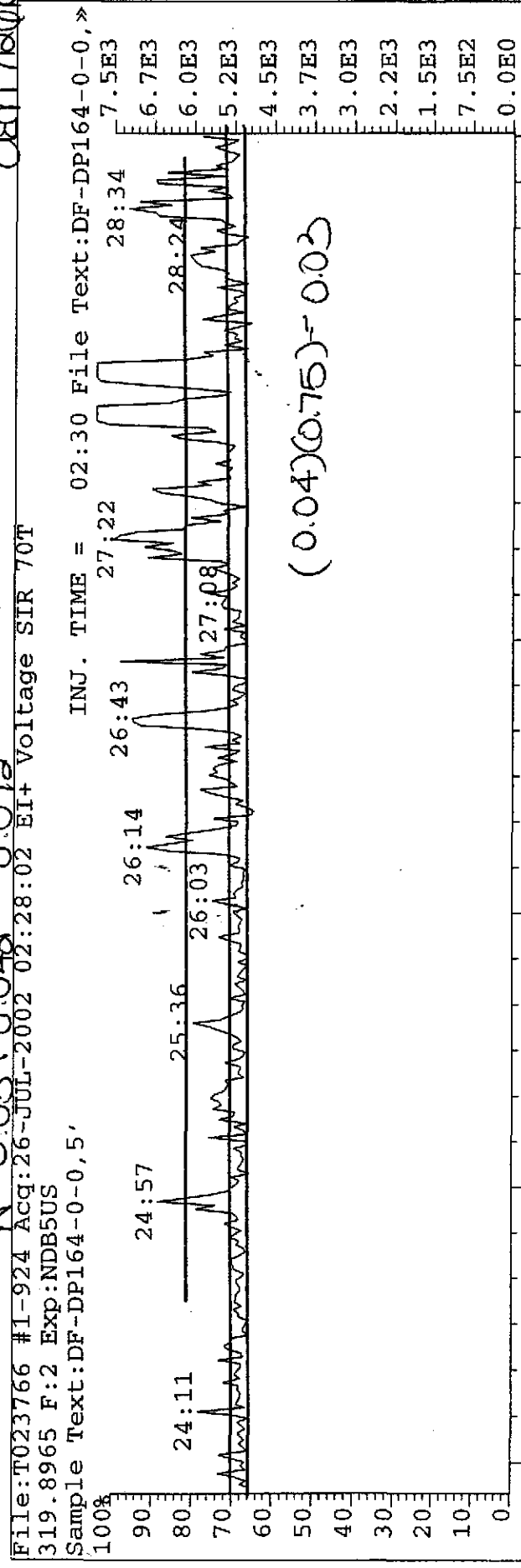


File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
317.9389 F:2 Exp:NDB5US



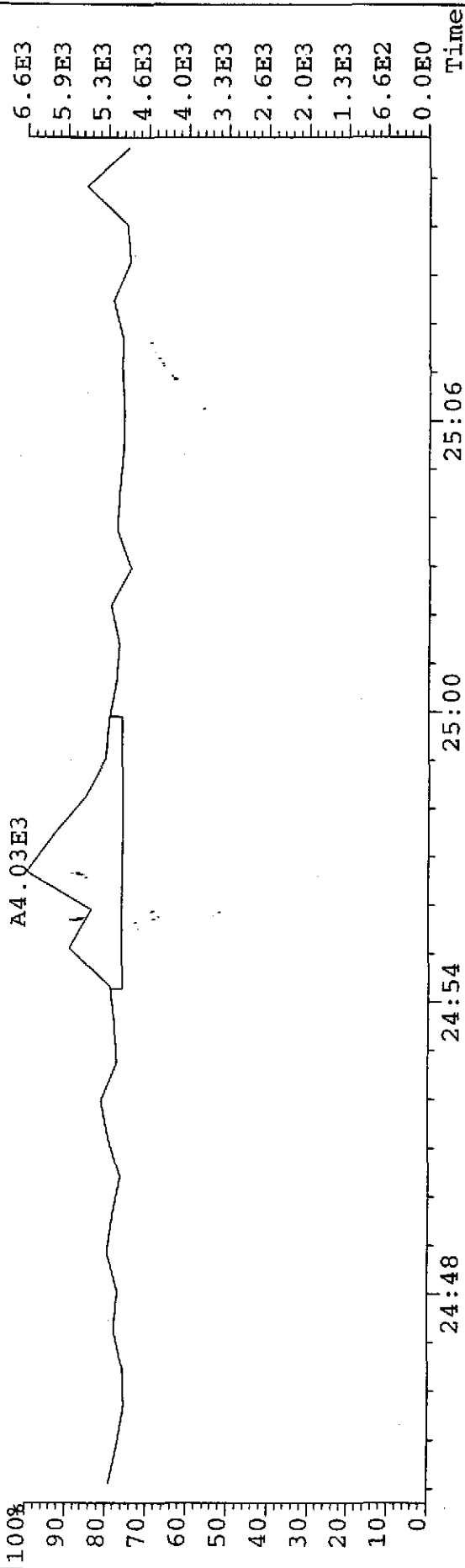
QEM 716100

$N = 0.03 + 0.042 = 0.072$

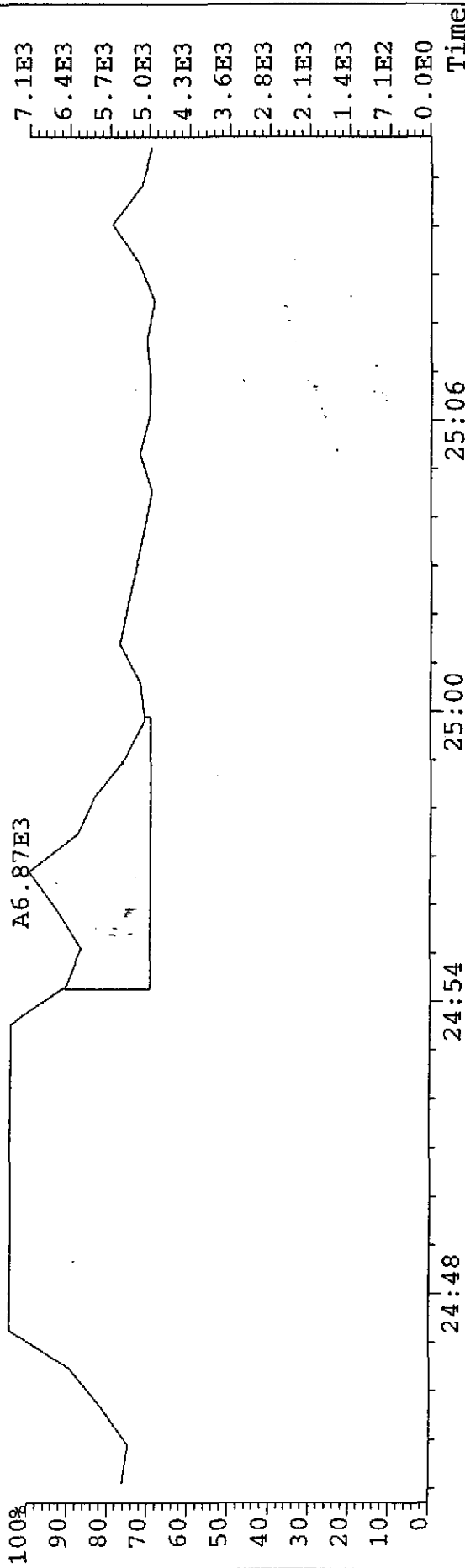


CEN 7126102

File: T023766 #1-924 Acq: 26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
319.8965 F:2 Exp: NDB5US

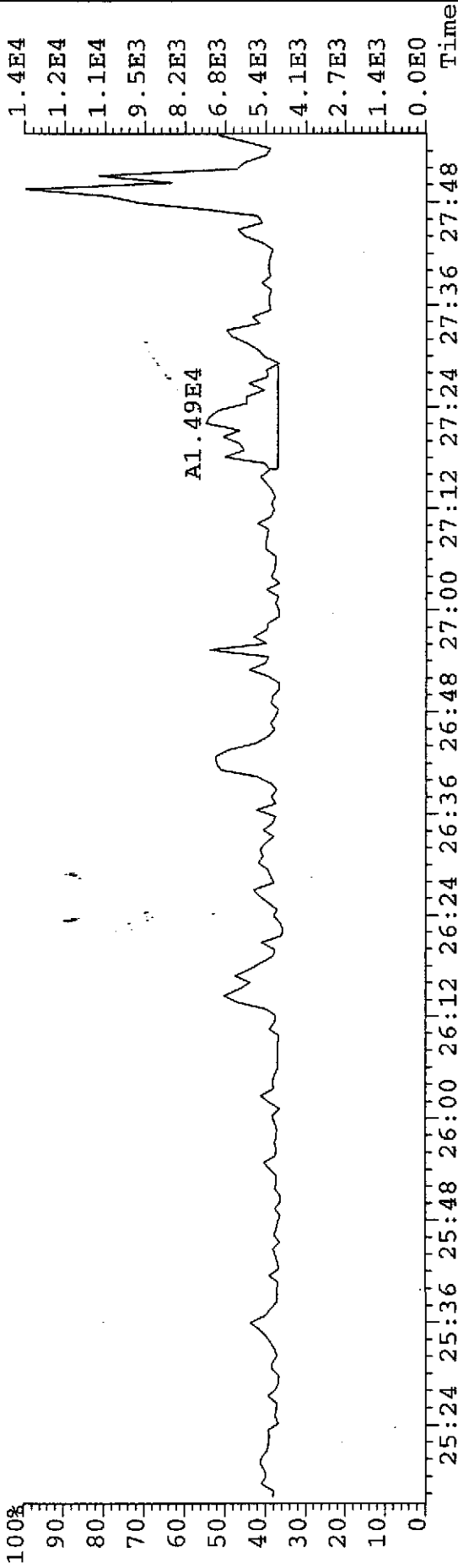


File: T023766 #1-924 Acq: 26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
321.8936 F:2 Exp: NDB5US

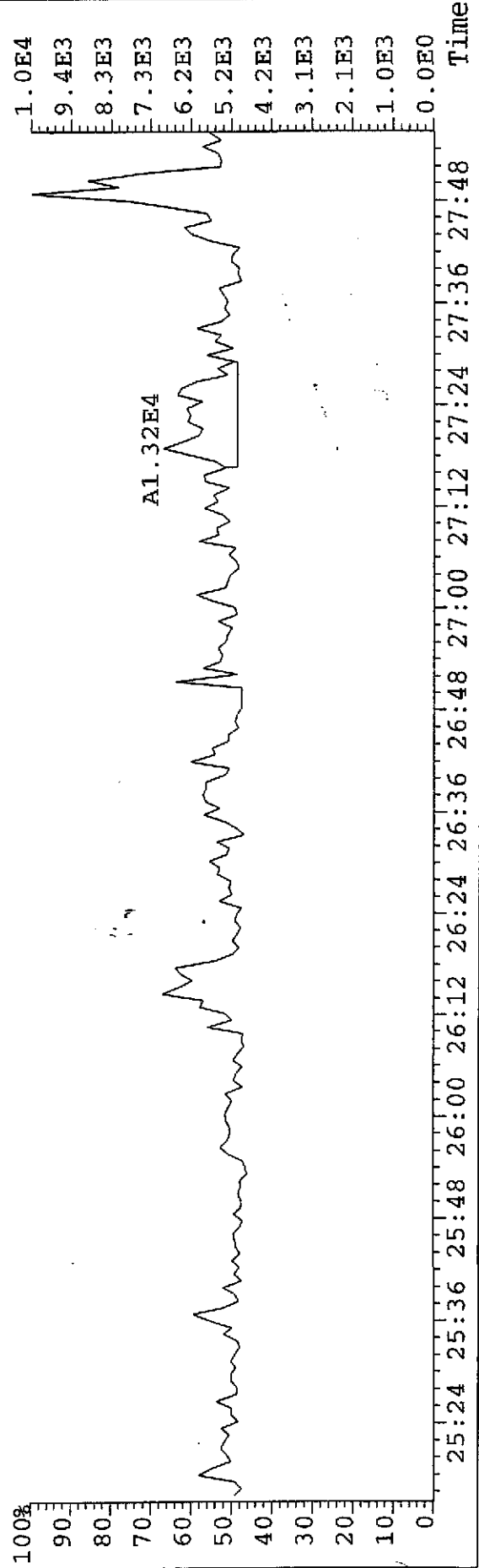


02M72A102

File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
319.8965 F:2 Exp:NDB5US

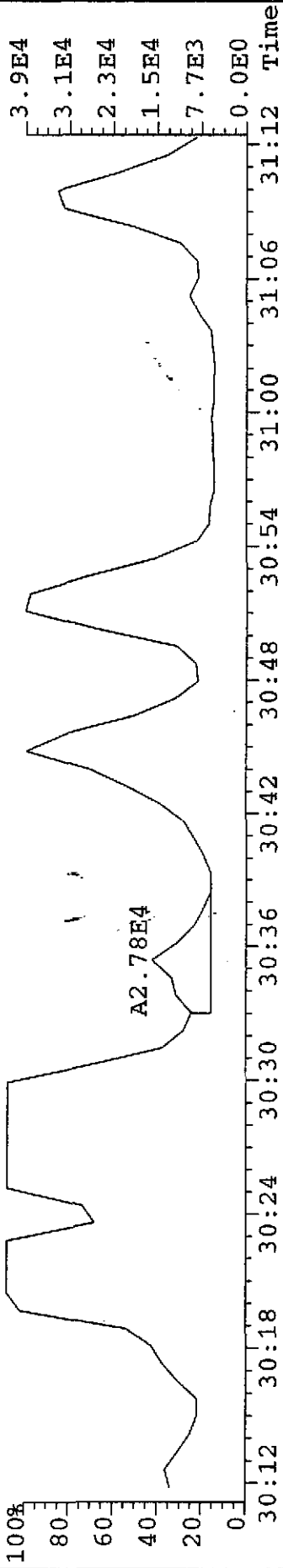


File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
321.8936 F:2 Exp:NDB5US

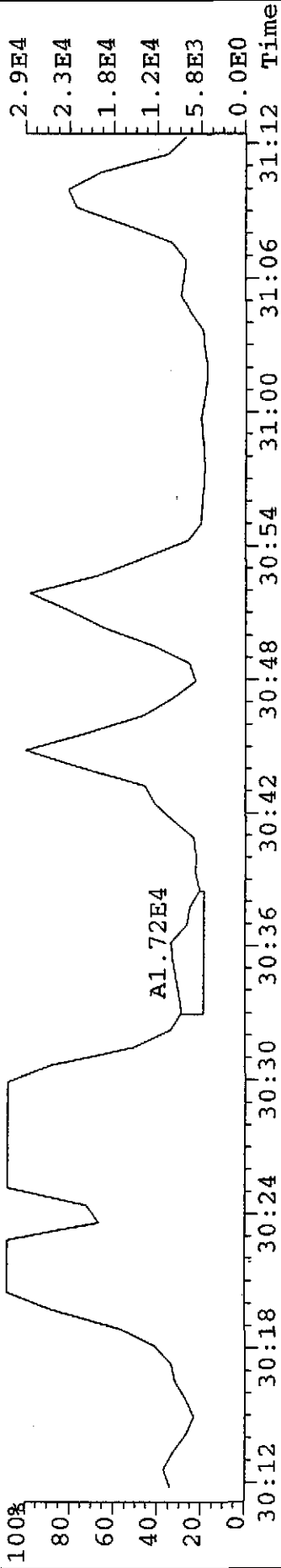


DEM 71A0102

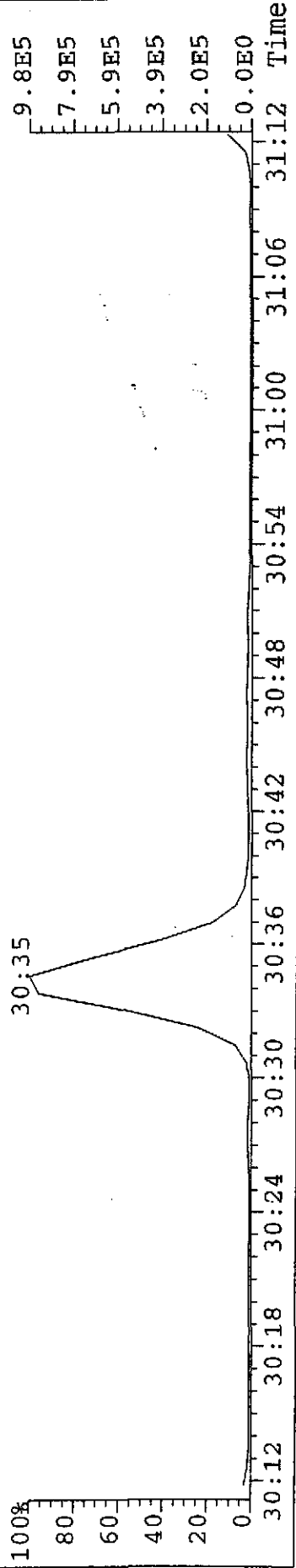
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
339.8597 F:2 Exp:NDB5US



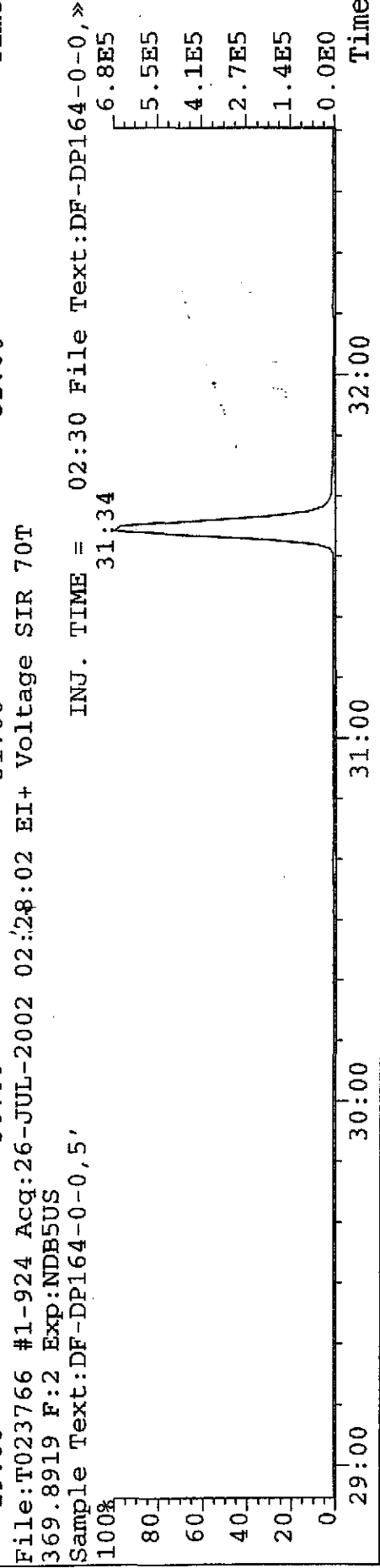
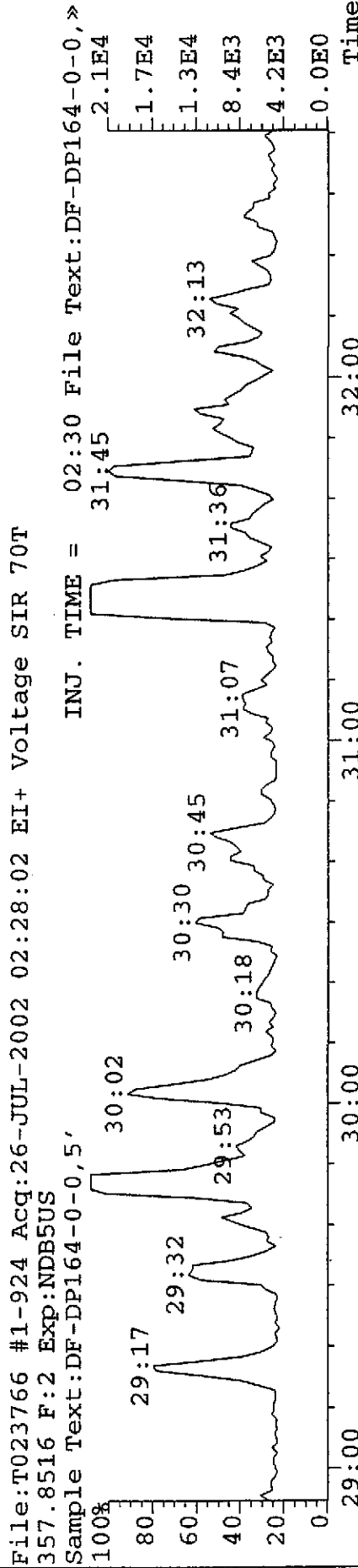
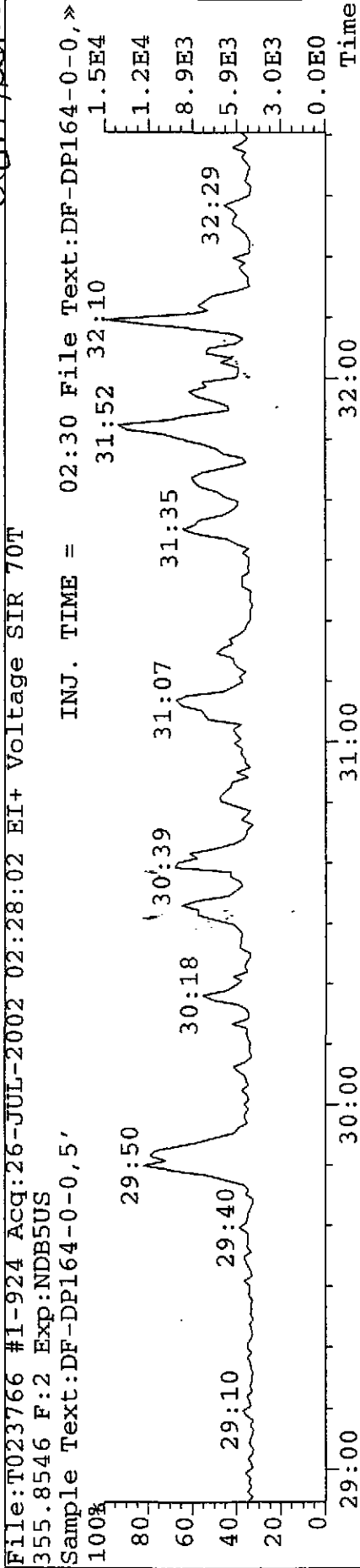
File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
341.8567 F:2 Exp:NDB5US



File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
353.8970 F:2 Exp:NDB5US

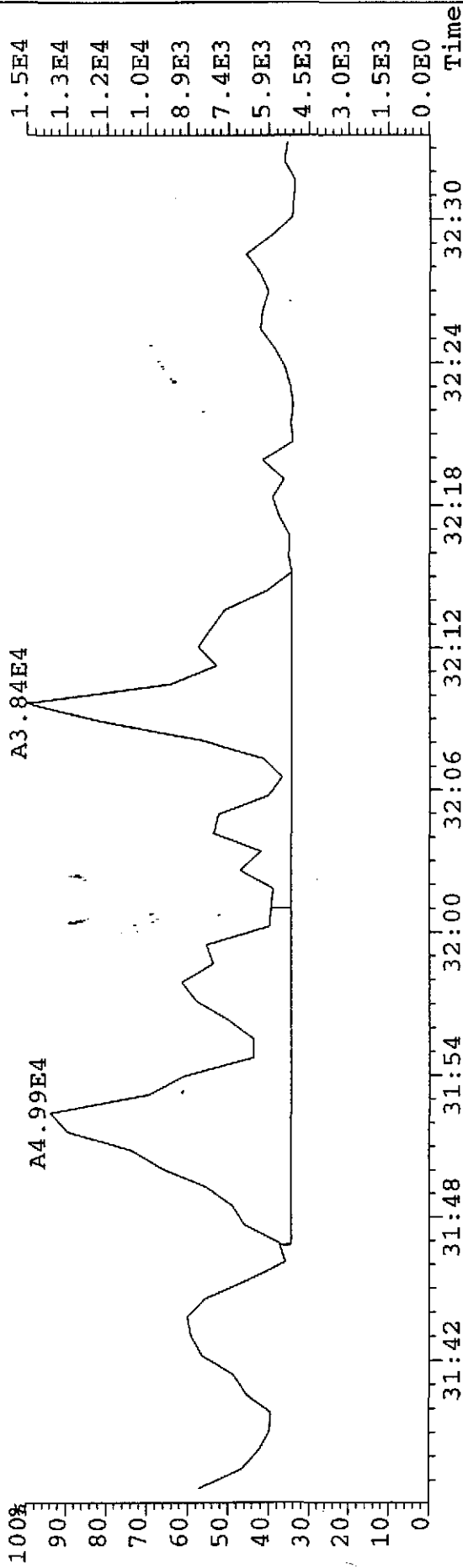


QCM 715002

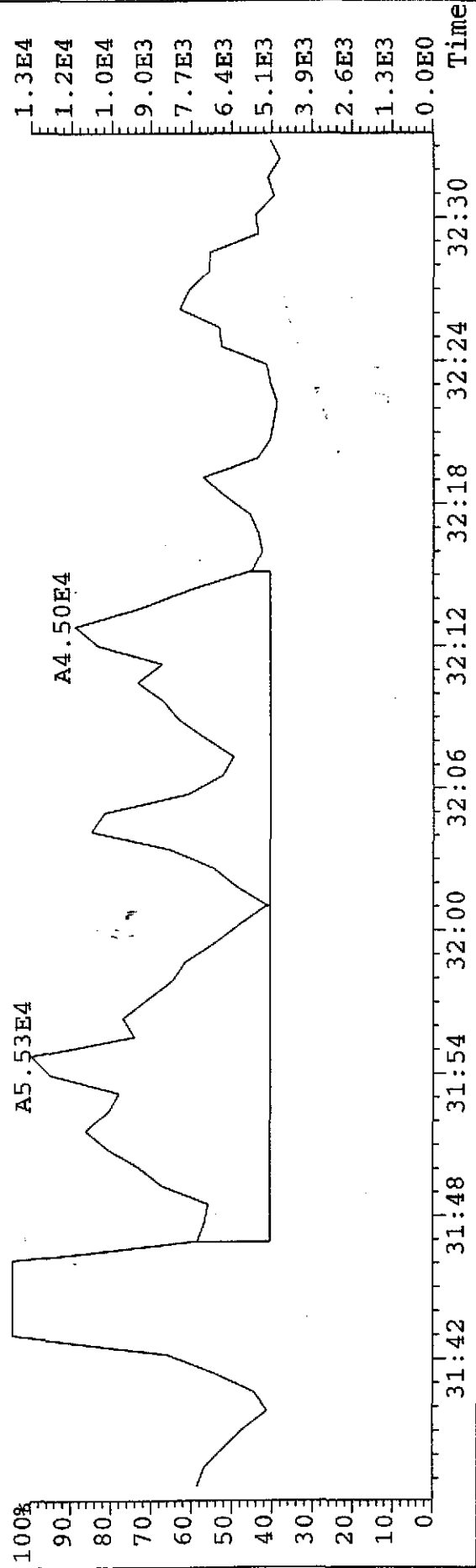


0207120102

File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
355.8546 F:2 Exp:NDB5US

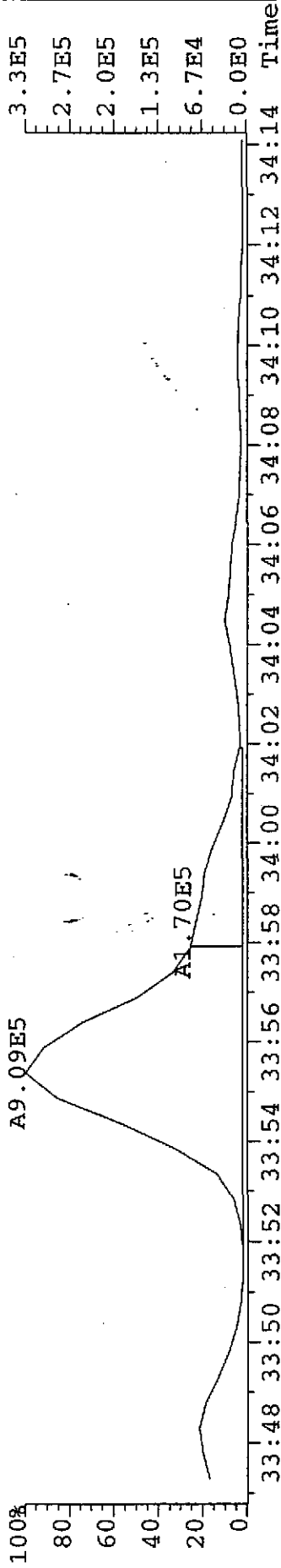


File:T023766 #1-924 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
357.8516 F:2 Exp:NDB5US

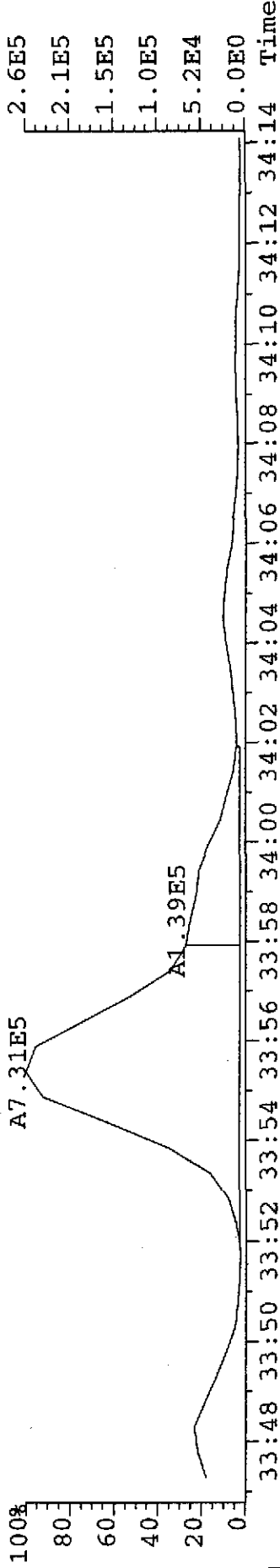


02072002

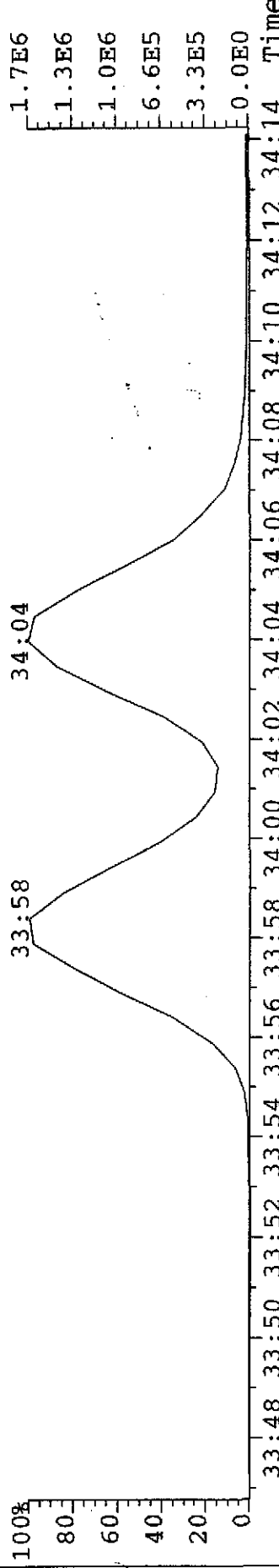
File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
373.8208 F:3 Exp:NDB5US



File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
375.8178 F:3 Exp:NDB5US

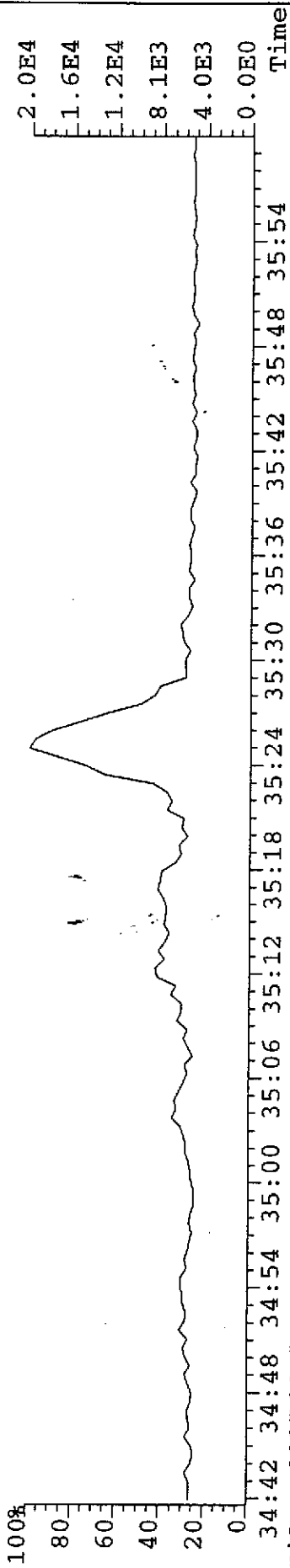


File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
385.8610 F:3 Exp:NDB5US

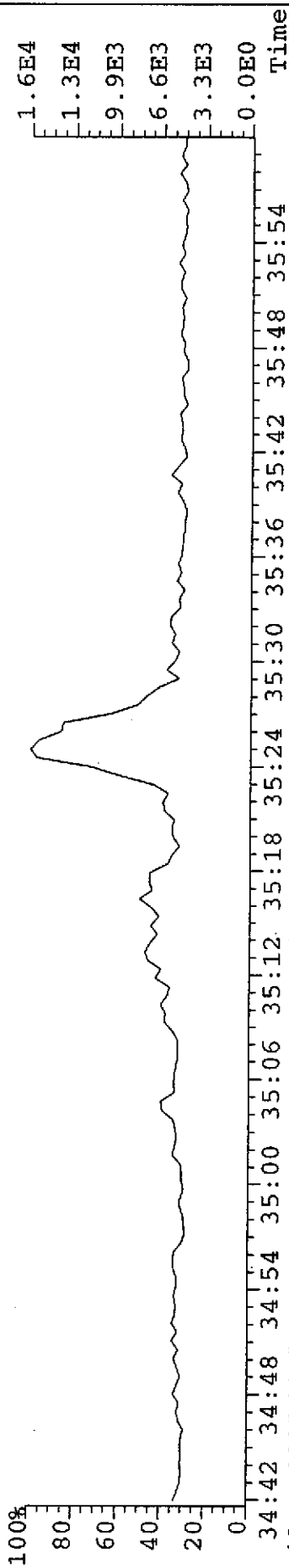


ARM 712002

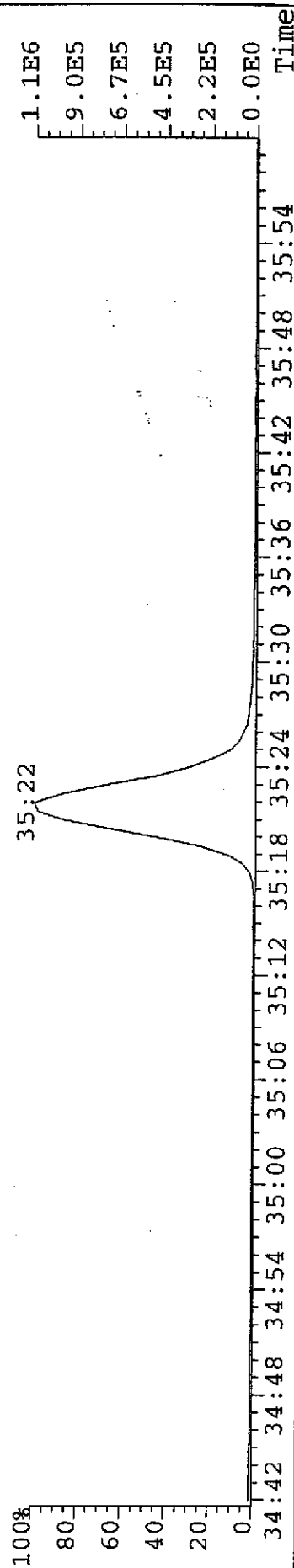
File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
373.8208 F:3 Exp:NDB5US



File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
375.8178 F:3 Exp:NDB5US

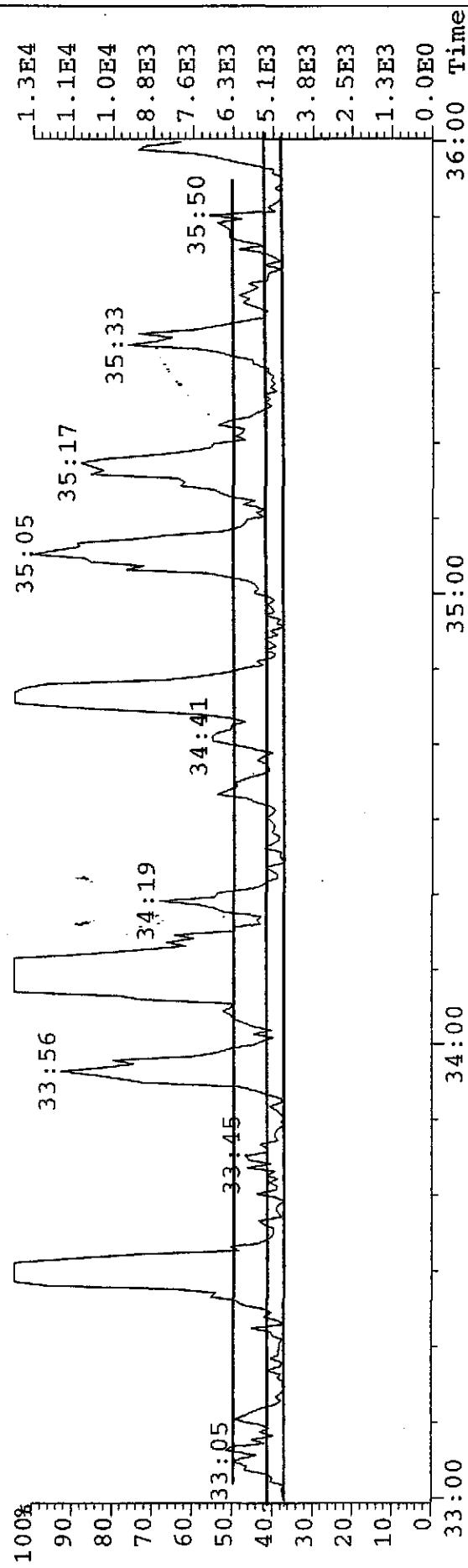


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385.8610 F:3 Exp:NDB5US

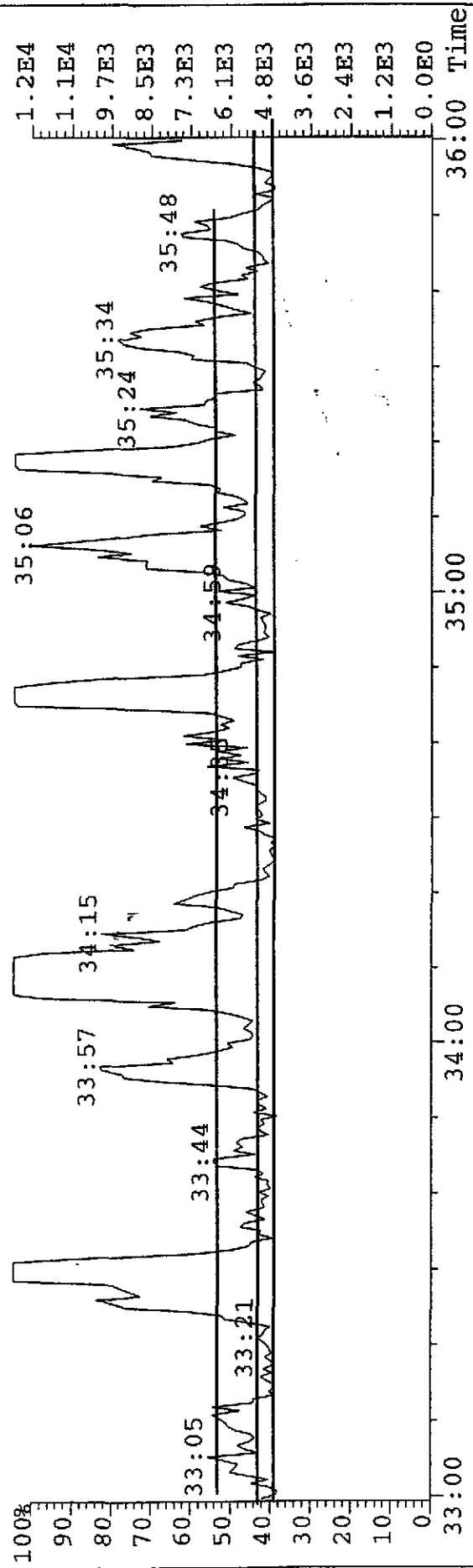


0207120102

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389.8156 F:3 Exp:NDB5US

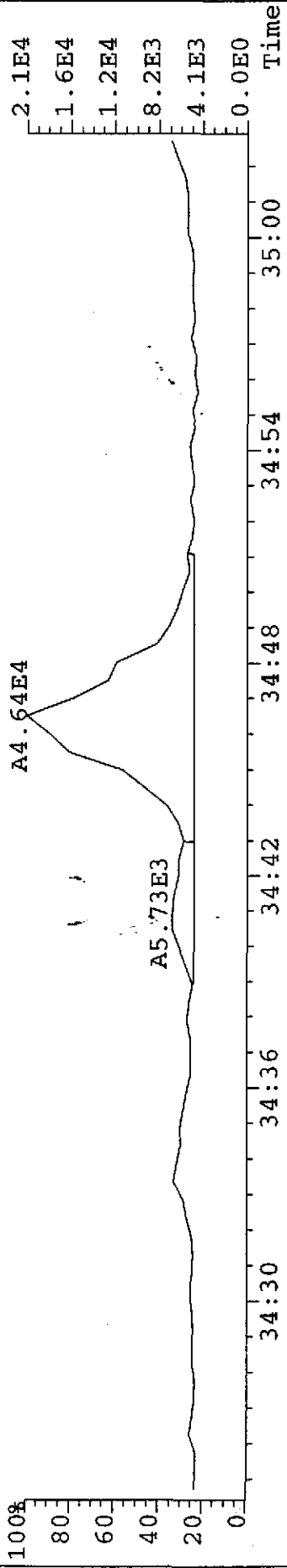


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391.8127 F:3 Exp:NDB5US

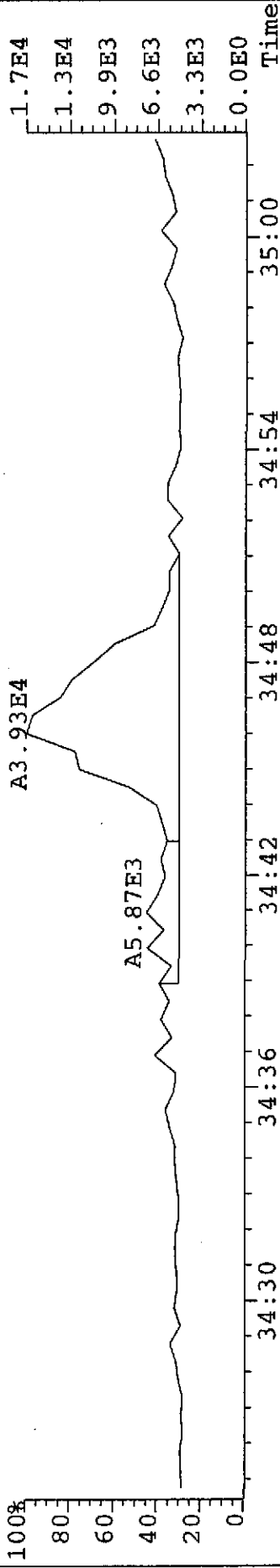


DEM 7120102

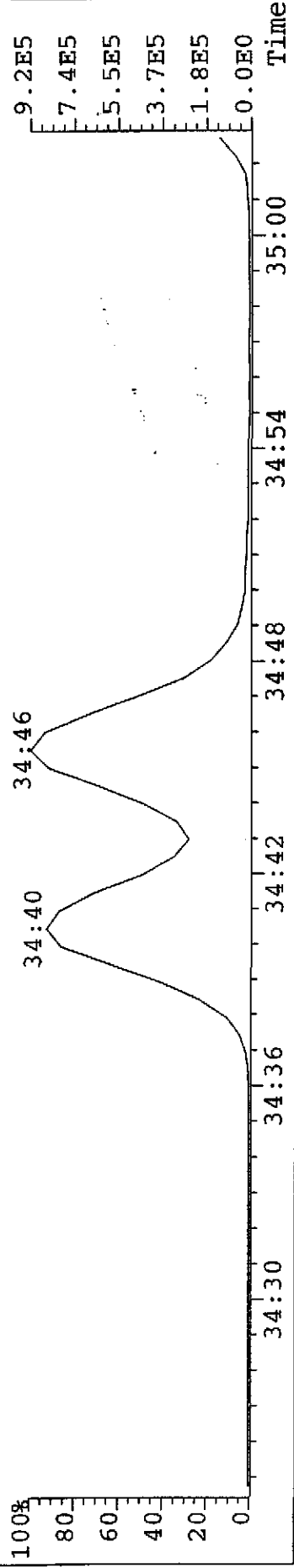
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389.8156 F:3 Exp:NDB5US



File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
391.8127 F:3 Exp:NDB5US



File:T023766 #1-386 Acq:26-JUL-2002 02:28:02 EI+ Voltage SIR 70T
401.8558 F:3 Exp:NDB5US



InitialDate...

Data Review By:

VSC 7/29/02

Channel specific noise levels computed from 'NL' heights.

Page No. 1
07/29/2002

Listing of P022728B.dbf
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	0.57	0.28	0.29				
	DC SN	18:51 RO	1.79	1.09	0.791				
	DC SN	19:11 RO	1.65	1.51	0.805				
	DC SN	19:31 RO	1.15	1.40	0.819				
		19:48 RO	0.45	5.42	1.69	3.73	0.831		
		19:53	0.68	34.38	13.94	20.44	0.835		
		20:07 RO	0.47	2.99	0.95	2.04	0.845	J	
		20:16 RO	1.51	7.01	4.22	2.79	0.851		
	DC SN	20:35 RO	0.59	0.65			0.864		
		20:56 RO	1.04	3.21	1.64	1.57	0.879	J	
	DC SN	21:06	0.75	1.38			0.886		
	DC SN	21:10 RO	0.18	0.90			0.889		
		21:15 RO	0.42	4.97	1.48	3.49	0.892		
		21:27	0.74	10.33	4.41	5.92	0.901		
	DC SN	21:35 RO	0.53	0.61			0.906		
		21:58	0.78	14.69	6.43	8.26	0.922		
		22:12 RO	1.34	34.13	19.56	14.57	0.932		
		22:21	0.78	5.76	2.53	3.23	0.938		
		22:36 RO	1.06	3.35	1.72	1.63	0.949	J	
		22:42	0.66	6.67	2.65	4.02	0.953		
		22:47	0.65	4.58	1.80	2.78	0.957	J	
		22:59	0.89	6.11	2.87	3.24	0.965		
	DC SN	23:32 RO	0.25	2.18			0.988		
		23:43	0.67	12.64	5.06	7.58	0.996		
		23:51	0.76	11.98	5.18	6.80	1.001	2378-TCDF	AN
		24:12	0.76	13.40	5.77	7.63	1.016		
		24:31	0.82	138.57	62.28	76.29	1.029		
		24:56	0.70	4.22	1.74	2.48	1.047	J	
	DC SN	25:24 RO	0.42	1.05			1.066		
	DC SN	25:29	0.75	1.05			1.070		
		25:40	0.79	4.57	2.01	2.56	1.078	J	
		25:55	0.78	15.34	6.72	8.62	1.088		
	DC SN	26:02 RO	2.19	1.02			1.093		
	DC SN	26:20 RO	0.26	1.03			1.106		
	DC WH	26:31	0.71	1.80			1.113		
	DC WH	26:41 RO	0.30	1.86			1.120		
304-306		21 Peaks		344.32					

13C12-TCDF		0.65-0.89				0.958-1.042			
316-318	DC NL	Height	0.73	0.35	0.38				
	DC WL	19:12 RO	2.84	0.73	0.806				
	DC WL	19:20 RO	0.37	1.12	0.812				
	DC WL	19:28 RO	0.28	1.55	0.817				
	DC WL	19:59	0.70	1.72	0.839				
	DC WL	20:05 RO	0.28	3.46	0.843				
	DC WL	20:16 RO	5.94	1.11	0.851				

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	20:25	RO	3.20	1.26			0.857		
DC	WL	21:00	RO	1.24	2.93			0.882		
DC	WL	21:08	RO	1.23	1.45			0.887		
DC	WL	21:20	RO	0.38	1.08			0.896		
DC	WL	21:29	RO	2.51	1.86			0.902		
DC	WL	21:47	RO	2.73	1.79			0.915		
DC	WL	21:49	RO	0.42	0.74			0.916		
DC	WL	22:17	RO	0.62	6.98			0.936		
DC	WL	22:28	RO	3.00	1.16			0.943		
DC	WL	22:33		0.85	1.98			0.947		
DC	WL	22:39	RO	1.34	1.45			0.951		
DC	WL	22:43	RO	0.42	0.88			0.954		
		22:56	RO	0.20	3.95	0.65	3.30	0.963		
		23:49		0.78	866.19	378.39	487.80	1.000	13C12-2378-TCDF	ISO
				Height	225.99	101.00	124.99			
		24:01	RO	1.37	2.35	1.36	0.99	1.008		
DC	SN	24:09	RO	3.09	1.84			1.014		
DC	SN	24:21	RO	1.48	1.98			1.022		
DC	SN	24:49		0.68	1.29			1.042		
DC	WH	24:57	RO	2.50	1.12			1.048		
DC	WH	25:02		0.77	0.99			1.051		
DC	WH	25:30	RO	1.07	1.22			1.071		
DC	WH	25:36	RO	1.63	2.84			1.075		
DC	WH	26:02	RO	1.43	7.93			1.093		
DC	WH	26:09	RO	0.56	1.54			1.098		
DC	WH	26:20		0.70	1.14			1.106		
316-318				3 Peaks	872.49					

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

13C12-TCDD
332-334

				0.65-0.89		0.910-1.090				
				Height	0.83	0.52	0.31			
DC	SN	20:27	RO	5.00	0.72			0.917		
DC	SN	20:38	RO	0.59	1.00			0.925		
DC	SN	21:05	RO	1.96	2.63			0.945		
DC	SN	21:08	RO	1.11	0.74			0.948		
		22:18		0.81	702.94	315.20	387.74	1.000	13C12-2378-TCDD	IS1
				Height	179.31	80.60	98.71			
		22:38		0.82	745.22	335.77	409.45	1.015	13C12-1234-TCDD	RS1
DC	SN	22:46	RO	1.80	1.12			1.021		
DC	SN	23:13	RO	1.47	1.21			1.041		
DC	SN	23:23	RO	2.68	1.36			1.049		
DC	SN	23:50	RO	0.60	1.58			1.069		
DC	SN	23:55	RO	0.15	2.85			1.072		
DC	WH	24:51		0.79	0.75			1.114		
DC	WH	24:59		0.88	0.47			1.120		
DC	WH	25:08	RO	2.01	2.77			1.127		
DC	WH	25:15	RO	3.04	0.93			1.132		
DC	WH	25:19	RO	0.20	0.67			1.135		
DC	WH	25:22	RO	3.31	1.12			1.138		
DC	WH	25:44	RO	0.33	1.06			1.154		
DC	WH	25:49	RO	4.36	1.18			1.158		

Compound/

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

332-334 2 Peaks 1,448.16

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

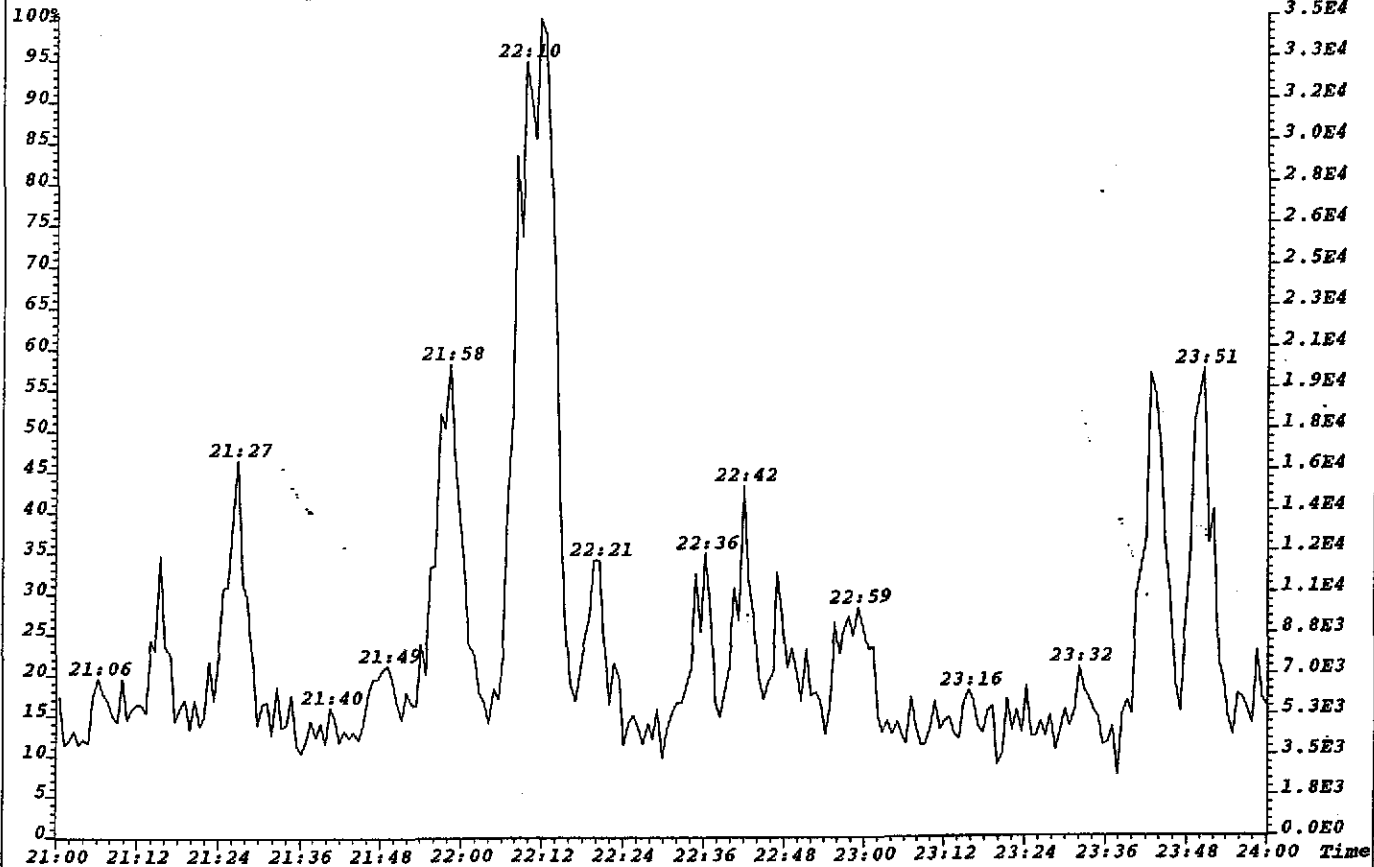
*** End of Report ***

File: P022728 #1-3025 Acq: 29-JUL-2002 16:47:58 EI+ Voltage SIR 70P

303.9016 GC: DB225 Exp: none

TRIANGLE LABS Text: TLI#57930 DF-DP164-0-0.5'

INJ. TIME = 16:48

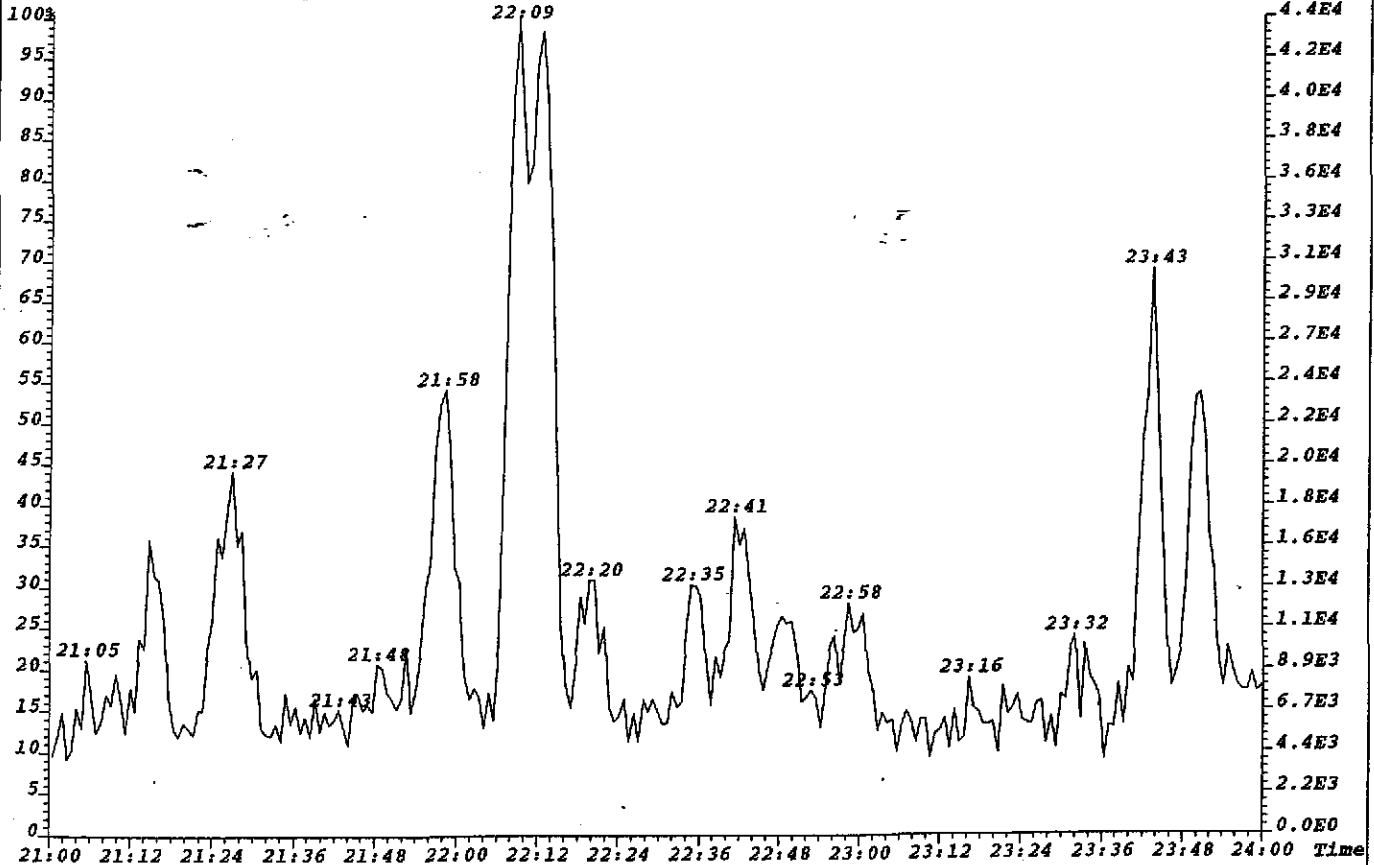


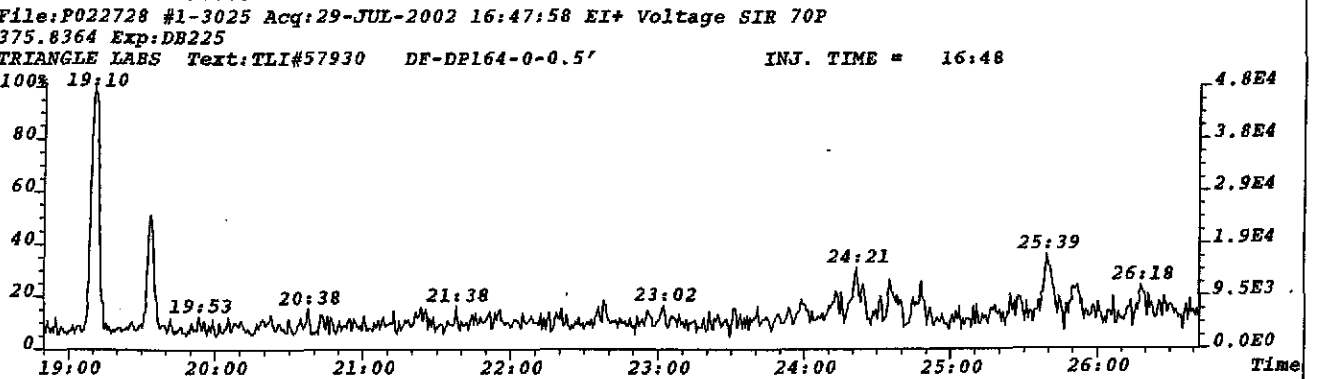
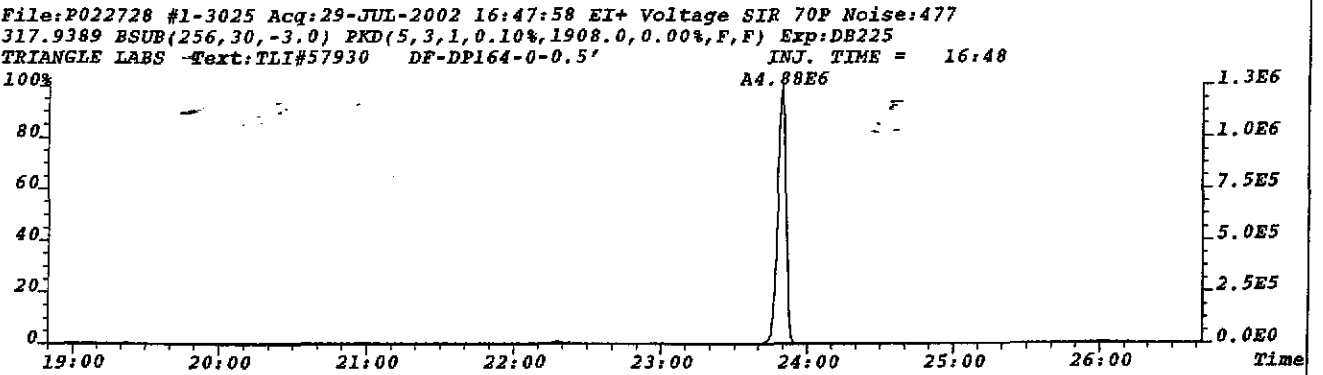
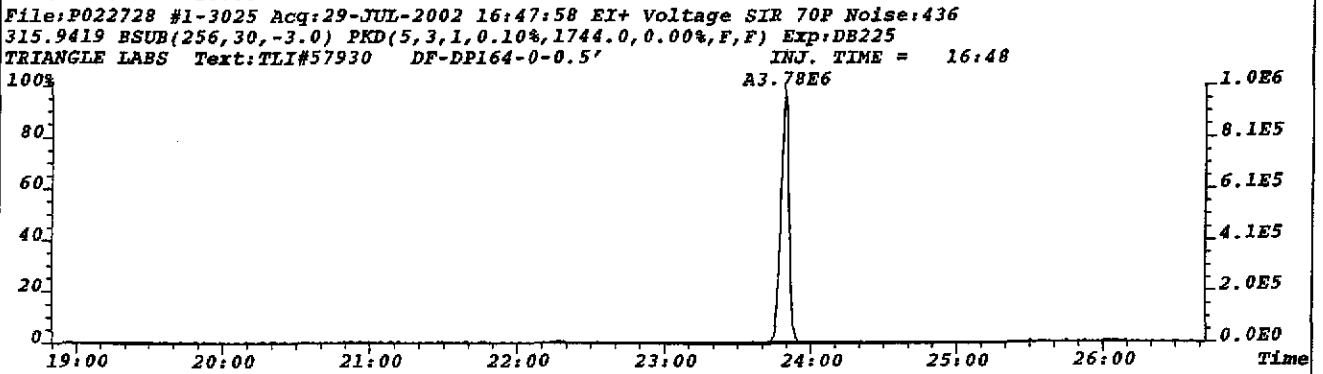
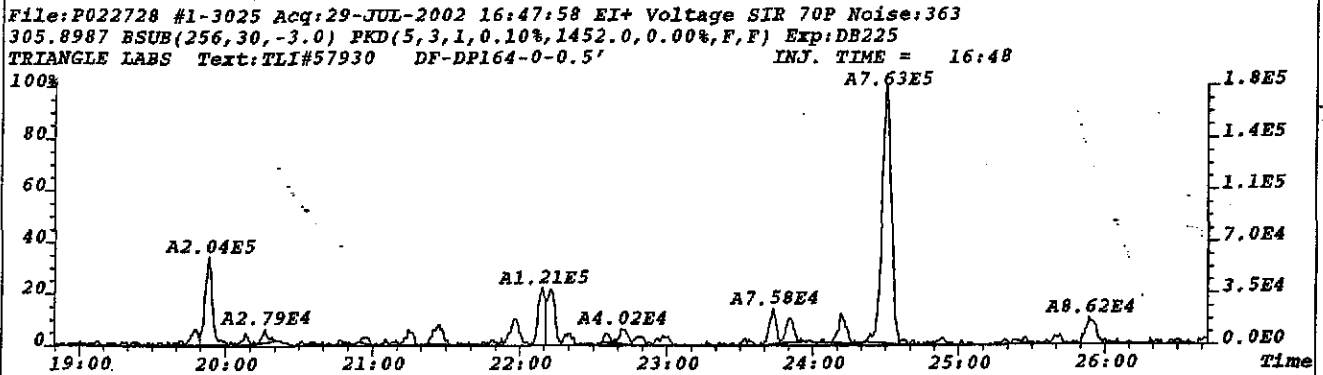
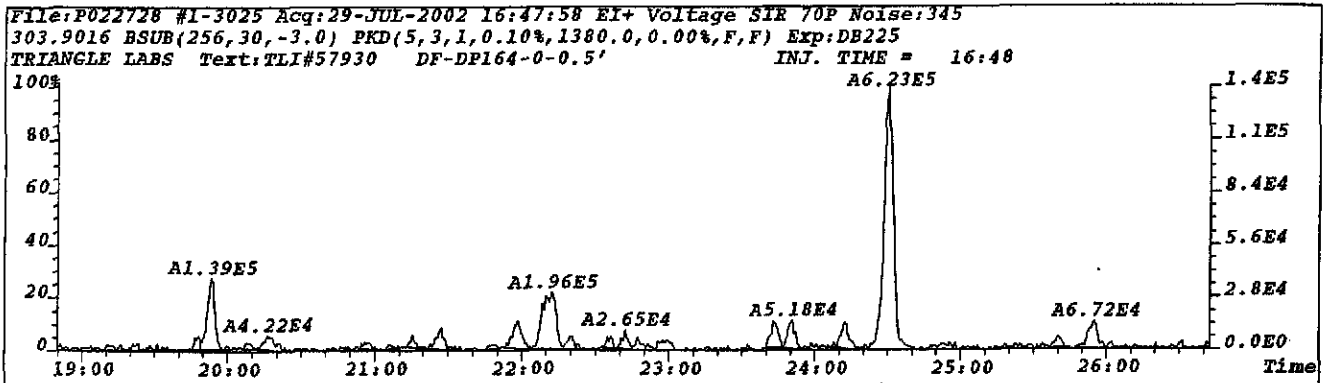
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305.8987 GC: DB225 Exp: none

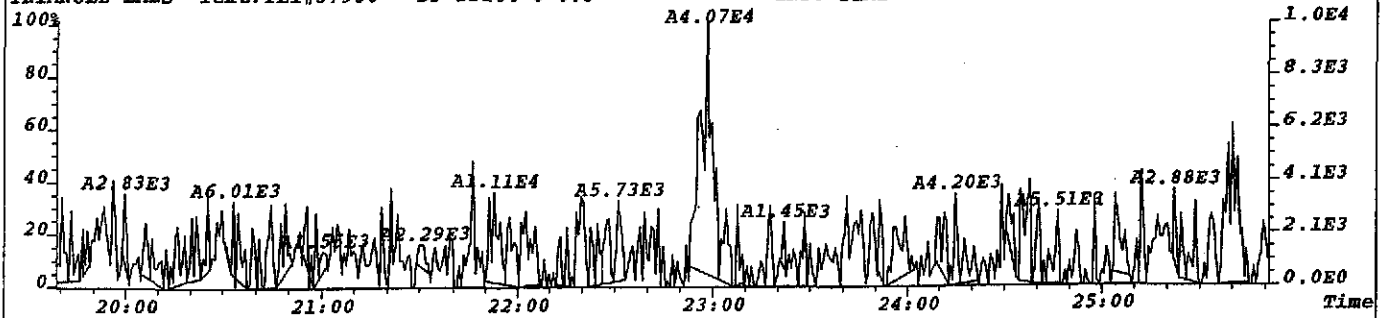
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INJ. TIME = 16:48

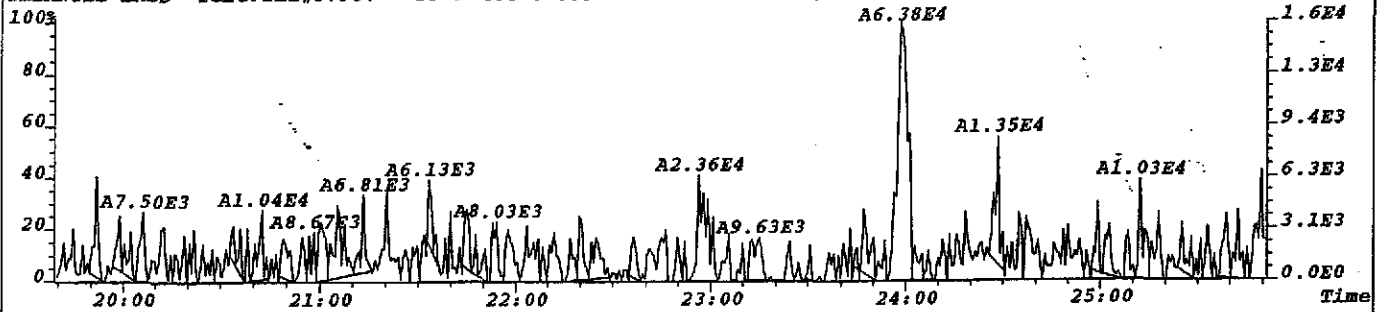




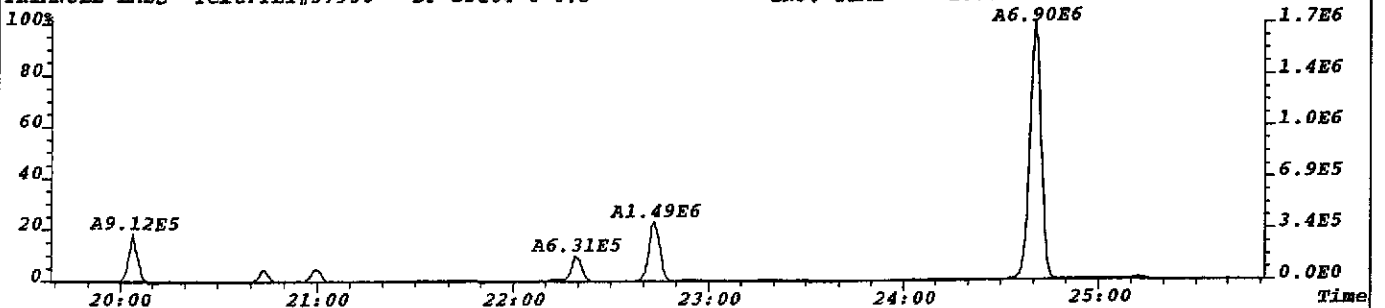
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319.8965 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1460.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP164-0-0.5' INJ. TIME = 16:48



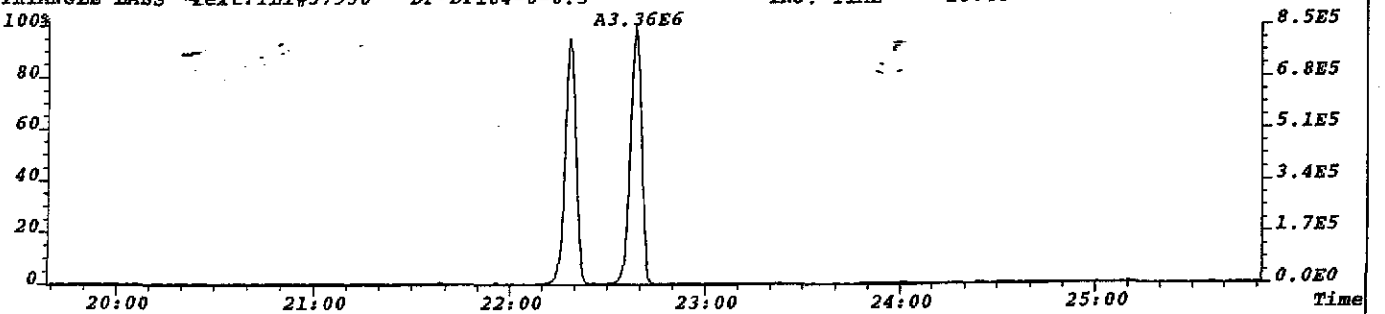
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321.8936 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1564.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP164-0-0.5' INJ. TIME = 16:48



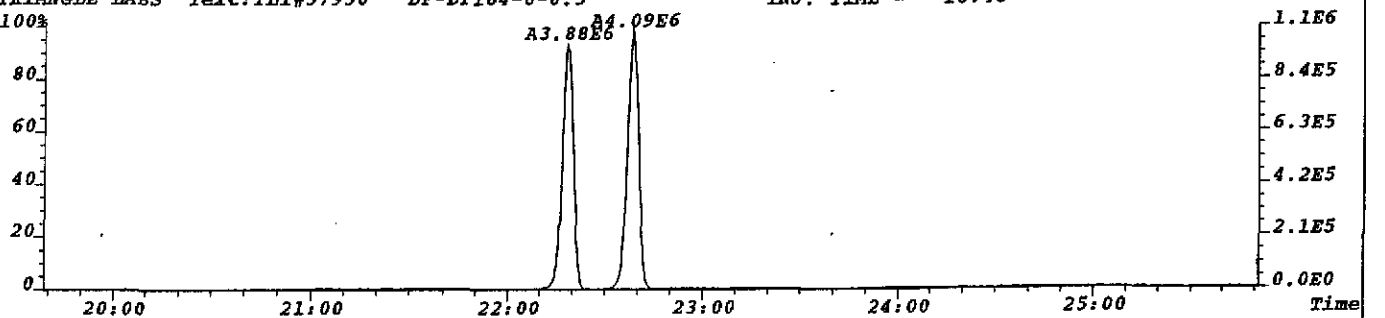
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327.8847 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1412.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP164-0-0.5' INJ. TIME = 16:48



File:P022728 #1-3025 Acq:29-JUL-2002 16:47:58 EI+ Voltage SIR 70P Noise:644
331.9368 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,2576.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP164-0-0.5' INJ. TIME = 16:48



File:P022728 #1-3025 Acq:29-JUL-2002 16:47:58 EI+ Voltage SIR 70P Noise:383
333.9338 BSUB(256,30,-3.0) PKD(5,3,1,0.10%,1532.0,0.00%,F,F) Exp:DB225
TRIANGLE LABS Text:TLI#57930 DF-DP164-0-0.5' INJ. TIME = 16:48

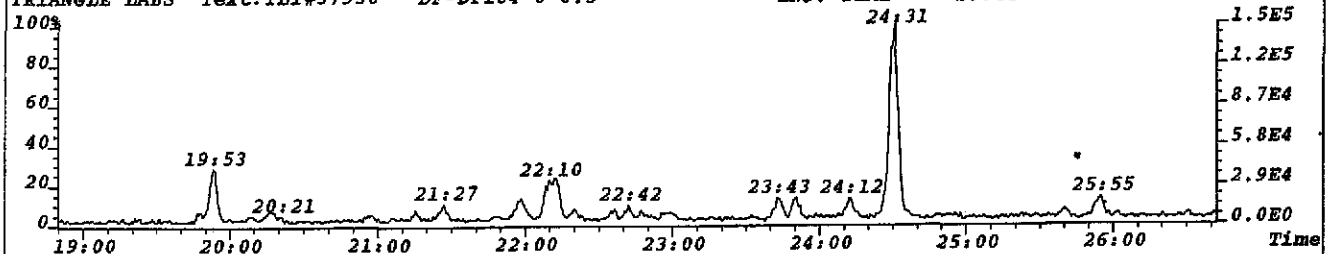


File: P022728 #1-3025 Acq: 29-JUL-2002 16:47:58 EI+ Voltage SIR 70P

303.9016 Exp: DB225

TRIANGLE LABS Text: TLI#57930 DF-DP164-0-0.5'

INJ. TIME = 16:48

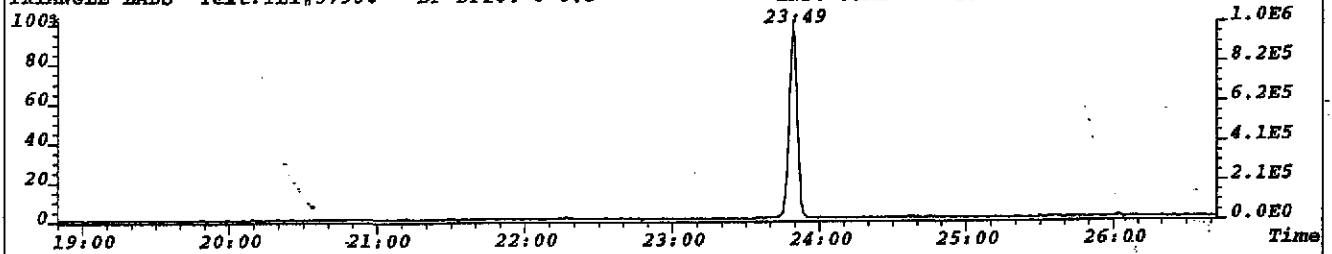


File: P022728 #1-3025 Acq: 29-JUL-2002 16:47:58 EI+ Voltage SIR 70P

315.9419 Exp: DB225

TRIANGLE LABS Text: TLI#57930 DF-DP164-0-0.5'

INJ. TIME = 16:48

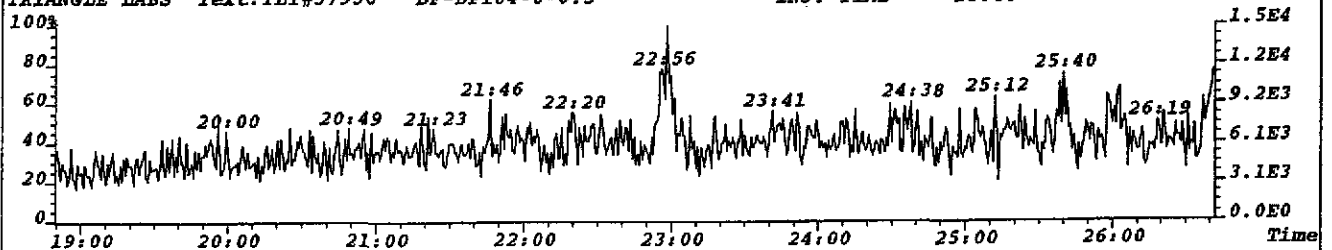


File: P022728 #1-3025 Acq: 29-JUL-2002 16:47:58 EI+ Voltage SIR 70P

319.8965 Exp: DB225

TRIANGLE LABS Text: TLI#57930 DF-DP164-0-0.5'

INJ. TIME = 16:48

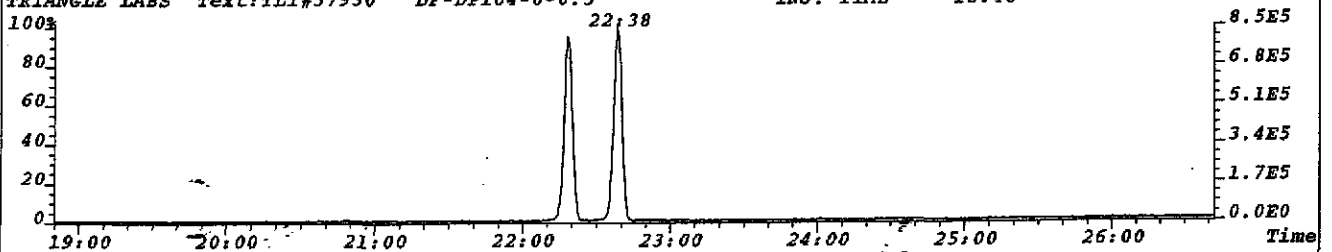


File: P022728 #1-3025 Acq: 29-JUL-2002 16:47:58 EI+ Voltage SIR 70P

331.9368 Exp: DB225

TRIANGLE LABS Text: TLI#57930 DF-DP164-0-0.5'

INJ. TIME = 16:48

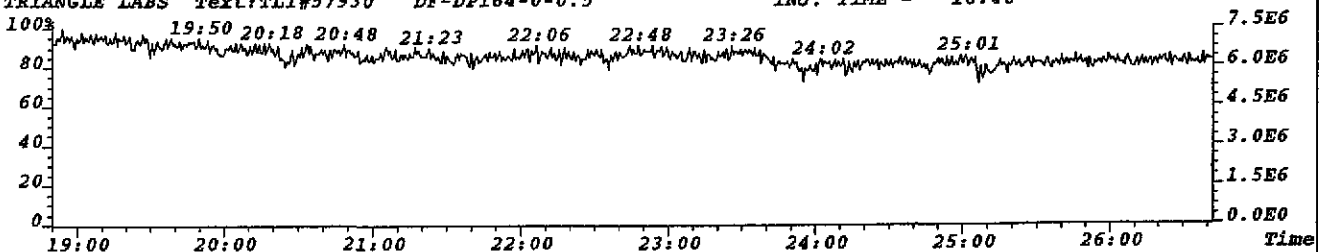


File: P022728 #1-3025 Acq: 29-JUL-2002 16:47:58 EI+ Voltage SIR 70P

292.9825 Exp: DB225

TRIANGLE LABS Text: TLI#57930 DF-DP164-0-0.5'

INJ. TIME = 16:48

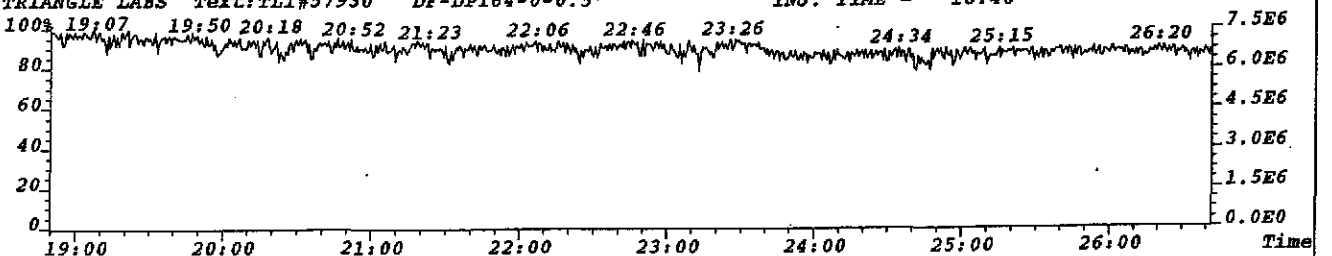


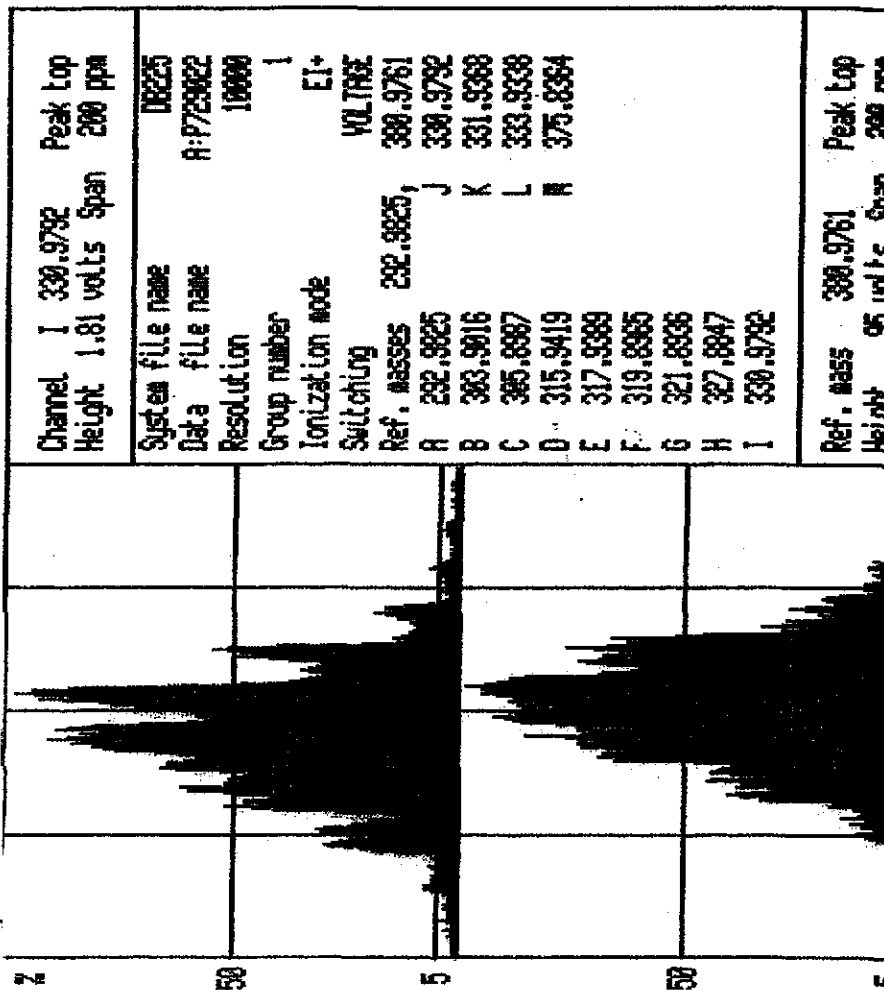
File: P022728 #1-3025 Acq: 29-JUL-2002 16:47:58 EI+ Voltage SIR 70P

330.9792 Exp: DB225

TRIANGLE LABS Text: TLI#57930 DF-DP164-0-0.5'

INJ. TIME = 16:48





Channel 1 330.9792 Peak Top
 Height 1.81 volts Span 200 ppm

System file name D0225
 Data file name A:P723022
 Resolution 10000
 Group number 1
 Ionization mode EI+
 Switching VOLTAGE
 Ref. masses 292.9825, 300.9761
 A 292.9825 J
 B 303.9816 K
 C 305.8887 L
 D 315.9419 M
 E 317.9389
 F 319.8965
 G 321.8836
 H 327.8847
 I 330.9792

Ref. mass 300.9761 Peak Top
 Height 05 units Chan 200 ppm

Martin & Slagle

TLI Project: 57930 1613, Revision B PCDD/PCDF Analysis (c)
 Client Sample: DF-DP164-0,5'-1' Analysis File: T023767

Client Project:	Kuhlman Electric	Date Received:	07/20/2002	Spike File:	SP161B2S
Sample Matrix:	SOLID	Date Extracted:	07/23/2002	ICal:	TF5612B
TLI ID:	331-18-5	Date Analyzed:	07/26/2002	ConCal:	TB23758
Sample Size:	12.400 g	Dilution Factor:	n/a	% Moisture:	19.1
Dry Weight:	10.044 g	Blank File:	T023762	% Lipid:	n/a
GC Column:	DB-5	Analyst:	VSC	% Solids:	81.0

Analytes	Conc. (pg/g)	DL	Ratio	RT	RRT	Flags
2,3,7,8-TCDD	ND	0.2				---
1,2,3,7,8-PeCDD	ND	0.2				---
1,2,3,4,7,8-HxCDD	ND	0.2				---
1,2,3,6,7,8-HxCDD	ND	0.2				---
1,2,3,7,8,9-HxCDD	0.60		1.40	35:05	1.010	J_
1,2,3,4,6,7,8-HpCDD	6.9		1.00	38:07	1.000	---
1,2,3,4,6,7,8,9-OCDD	134		0.86	41:54	1.000	---
2,3,7,8-TCDF	ND	0.1				---
1,2,3,7,8-PeCDF	ND	0.2				---
2,3,4,7,8-PeCDF	ND	0.2				---
1,2,3,4,7,8-HxCDF	0.19		1.39	33:58	1.000	J_
1,2,3,6,7,8-HxCDF	ND	0.1				---
2,3,4,6,7,8-HxCDF	ND	0.1				---
1,2,3,7,8,9-HxCDF	ND	0.2				---
1,2,3,4,6,7,8-HpCDF	1.9		1.10	37:02	1.000	J_
1,2,3,4,7,8,9-HpCDF	ND	0.4				---
1,2,3,4,6,7,8,9-OCDF	ND	0.6				---

Totals	Conc. (pg/g)	Number	DL	Flags
Total TCDD	ND		0.2	---
Total PeCDD	ND		0.2	---
Total HxCDD	2.5	3		---
Total HpCDD	20.2	2		---
Total TCDF	1.6	1		---
Total PeCDF	1.5	1		---
Total HxCDF	1.8	4		---
Total HpCDF	2.9	2		---

Martin & Slagle

TLI Project: 57930 1613, Revision B PCDD/PCDF Analysis (c)
 Client Sample: DF-DP164-0,5'-1' Analysis File: T023767

Internal Standards	Conc. (pg/g)	% Recovery	QC Limits	Ratio	RT	RRT	Flags
¹³ C ₁₂ -2,3,7,8-TCDD	146	73.5	25%-164%	0.79	27:23	1.007	—
¹³ C ₁₂ -1,2,3,7,8-PeCDD	149	74.7	25%-181%	1.50	31:34	1.161	—
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	184	92.2	32%-141%	1.29	34:39	0.988	—
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	188	94.3	28%-130%	1.17	34:44	0.990	—
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	181	90.8	23%-140%	1.04	38:06	1.087	—
¹³ C ₁₂ -1,2,3,4,6,7,8,9-OCDD	247	61.9	17%-157%	0.85	41:54	1.195	—
¹³ C ₁₂ -2,3,7,8-TCDF	170	85.5	24%-169%	0.75	26:41	0.981	—
¹³ C ₁₂ -1,2,3,7,8-PeCDF	152	76.3	24%-185%	1.48	30:34	1.124	—
¹³ C ₁₂ -2,3,4,7,8-PeCDF	151	75.7	21%-178%	1.50	31:14	1.148	—
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	205	103	26%-152%	0.51	33:57	0.968	—
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	223	112	26%-123%	0.51	34:03	0.971	—
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	218	109	28%-136%	0.51	34:33	0.985	—
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	204	103	29%-147%	0.52	35:21	1.008	—
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	197	98.9	28%-143%	0.44	37:02	1.056	—
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	182	91.2	26%-138%	0.43	38:37	1.101	—

Cleanup Standard	Conc. (pg/g)	% Recovery	QC Limits	RT	RRT	Flags
³⁷ Cl ₄ -2,3,7,8-TCDD	13.1	65.6	35%-197%	27:24	1.007	—

Recovery Standards	Ratio	RT	Flags
¹³ C ₁₂ -1,2,3,4-TCDD	0.80	27:12	—
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.20	35:04	—

Data Reviewer: CEM 07/26/2002

TLI Project: 57930
 Client Sample: DF-DP164-0,5'-1'

Toxicity Equivalents Report
 Analysis File: T023767

Client Project:	Kuhlman Electric	Date Received:	07/20/02	Spike File:	SP161B2S
Sample Matrix:	SOLID	Date Extracted:	07/23/02	ICal:	TF5612B
TLI ID:	331-18-5	Date Analyzed:	07/26/02	ConCal:	TB23758
Sample Size:	12.400 g	Dilution Factor:	1	% Moisture:	19.0
Dry Weight:	10.044 g	Blank File:	T023762	% Lipid:	n/a
GC Column:	DB-5	Analyst:	VSC	% Solids:	81.0

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	{0.2}	x	1.	=	0.2
1,2,3,7,8-PeCDD	{0.2}	x	0.5	=	0.1
1,2,3,4,7,8-HxCDD	{0.2}	x	0.1	=	0.02
1,2,3,6,7,8-HxCDD	{0.2}	x	0.1	=	0.02
1,2,3,7,8,9-HxCDD	0.60	x	0.1	=	0.060
1,2,3,4,6,7,8-HpCDD	6.9	x	0.01	=	0.069
1,2,3,4,6,7,8,9-OCDD	134	x	0.001	=	0.134
TOTAL PCDD					0.6
2,3,7,8-TCDF	{0.1}	x	0.1	=	0.01
1,2,3,7,8-PeCDF	{0.2}	x	0.05	=	0.01
2,3,4,7,8-PeCDF	{0.2}	x	0.5	=	0.1
1,2,3,4,7,8-HxCDF	0.19	x	0.1	=	0.019
1,2,3,6,7,8-HxCDF	{0.1}	x	0.1	=	0.01
2,3,4,6,7,8-HxCDF	{0.1}	x	0.1	=	0.01
1,2,3,7,8,9-HxCDF	{0.2}	x	0.1	=	0.02
1,2,3,4,6,7,8-HpCDF	1.9	x	0.01	=	0.019
1,2,3,4,7,8,9-HpCDF	{0.4}	x	0.01	=	0.004
1,2,3,4,6,7,8,9-OCDF	{0.6}	x	0.001	=	0.0006
TOTAL PCDF					0.2

Total EPA TEFs, 1989a: 0.8 pg/g

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

InitialDate...

Data Review By:

Dem 7/26/02

Calculated Noise Height: 0.07

Page No. 1
07/26/2002

Listing of T023767E.dbf
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	0.20	0.11	0.09		
	DC SN	24:22 RO 0.97	1.18		0.913		
	DC SN	24:35 0.81	0.58		0.921		
	DC SN	26:41 RO 0.55	1.04		1.000 2378-TCDF	AN	
		27:52 0.77	7.55	3.28	4.27 1.044		
304-306	1 Peak		7.55				

13C12-TCDF		0.65-0.89			0.944-1.131		
316-318	DC NL	Height	0.19	0.08	0.11		
		25:41 0.70	6.17	2.53	3.64 0.963		
		25:59 RO 0.64	2.39	0.93	1.46 0.974		
		26:18 RO 0.63	7.27	2.81	4.46 0.986		
		26:41 0.75	879.78	376.89	502.89 1.000 13C12-2378-TCDF	ISO	
		Height	220.88	94.12	126.76		
316-318	4 Peaks		895.61				

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

TCDD		0.65-0.89			0.905-1.042		
320-322	DC NL	Height	0.15	0.07	0.08		
	DC SN	24:48 RO 0.02	4.02		0.906		
	DC SN	25:49 RO 1.75	0.22		0.943		
320-322	0 Peaks		0.00				

37C1-TCDD		0.65-0.89			0.927-1.073		
328	DC NL	Height	0.08	0.08			
	DC WL	24:48	0.22		0.906		
		26:03	1.31	1.31	0.951		
		27:24	56.90	56.90	1.001 37C1-TCDD	CLS	
		27:46	8.50	8.50	1.014		
	DC SN	28:16	0.43		1.032		
	DC SN	28:26	0.27		1.038		
	DC SN	28:41	0.34		1.047		
	DC SN	28:48	0.28		1.052		
	DC SN	28:55	0.15		1.056		
328	3 Peaks		66.71				

13C12-TCDD		0.65-0.89			0.920-1.066		
332-334	DC NL	Height	0.30	0.20	0.10		
		26:14 RO 1.70	1.81	1.14	0.67 0.958		
		27:12 0.80	784.55	348.34	436.21 0.993 13C12-1234-TCDD	RS1	
		27:23 0.79	650.95	286.61	364.34 1.000 13C12-2378-TCDD	IS1	
		Height	158.97	69.51	89.46		
		28:02 0.71	2.24	0.93	1.31 1.024		
332-334	4 Peaks		1,439.55				

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			0.911-1.036		
340-342	DC NL	Height	0.19	0.09	0.10		
D	D SN	28:39 RO	0.55	1.91		0.917	
	DC SN	28:53 RO	1.25	0.63		0.925	
		29:25 RO	0.70	2.31	0.95	1.36	0.942
		29:52	1.35	5.75	3.30	2.45	0.956
		30:06 RO	1.12	3.78	2.00	1.78	0.964
N		30:27 RO	1.16	5.92	3.18	2.74	0.996
		32:04 RO	1.04	1.73	0.88	0.85	1.027
340-342	5 Peaks		19.49				

13C12-PeCDF		1.32-1.78			0.807-1.127		
352-354	DC NL	Height	0.14	0.06	0.08		
		29:43	1.46	10.40	6.17	4.23	0.951
		30:11 RO	1.26	7.49	4.17	3.32	0.966
		30:34	1.48	695.30	414.83	280.47	1.000 13C12-PeCDF 123 IS2
		Height	194.93	117.17	77.76		
		30:50	1.36	13.36	7.71	5.65	0.987
		31:14	1.50	704.03	422.06	281.97	1.000 13C12-PeCDF 234 IS3
		Height	201.64	120.47	81.17		
		31:33	1.76	3.29	2.10	1.19	1.010
		32:11 RO	1.18	7.01	3.80	3.21	1.030
352-354	7 Peaks		1,440.88				

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

PeCDD		1.32-1.78			0.940-1.021		
356-358	DC NL	Height	0.14	0.07	0.07		
	DC SN	30:34 RO	1.89	0.55		0.968	
	DC SN	30:43	1.57	0.36		0.973	
	DC SN	31:14 RO	1.07	0.95		0.989	
	DC SN	31:56 RO	2.75	0.15		1.012	
356-358	0 Peaks		0.00				

13C12-PeCDD		1.32-1.78			0.735-1.052		
368-370	DC NL	Height	0.18	0.10	0.08		
	DC SN	30:31	1.34	1.17		0.967	
		30:39 RO	1.18	2.29	1.24	1.05	0.971
		31:34	1.50	486.93	292.54	194.39	1.000 13C12-PeCDD 123 IS4
		Height	137.16	82.10	55.06		
		31:54 RO	0.80	2.29	1.02	1.27	1.011
	DC SN	32:00 RO	1.86	1.20		1.014	
368-370	3 Peaks		491.51				

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

HxCDF		1.05-1.43			0.929-1.007		
374-376	DC NL	Height	0.15	0.09	0.06		
	DC SN	33:02	1.38	0.69		0.934	
		33:08	1.23	1.25	0.69	0.56	0.937

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	33:15	RO	0.96	0.45		0.941				
			33:36		1.21	2.87	1.57	1.30	0.950			J
NM			33:54		1.25	1.98	1.10	0.88	0.999			J
AN			33:58		1.39	0.74	0.43	0.31	1.000	123478-HxCDF	AN	J
	DC	SN	34:04		1.35	0.61			1.000	123678-HxCDF	AN	
	DC	SN	35:23	RO	1.55	0.28			1.001	123789-HxCDF	AN	
374-376			4 Peaks			6.84						

13C12-HxCDF			0.43-0.59					0.879-1.105				
384-386	DC	NL	Height			0.41	0.15	0.26				
			33:00		0.55	2.17	0.77	1.40			0.934	
			33:08		0.49	4.15	1.36	2.79			0.937	
			33:57		0.51	675.46	228.91	446.55	1.000	13C12-HxCDF	478	IS5
			Height			216.26	72.45	143.81				
			34:03		0.51	746.14	253.63	492.51	1.000	13C12-HxCDF	678	IS6
			Height			214.51	72.50	142.01				
			34:33		0.51	711.00	240.08	470.92	1.000	13C12-HxCDF	234	IS7
			Height			213.54	73.04	140.50				
			34:53	RO	0.89	1.02	0.48	0.54			0.987	
			35:21		0.52	559.48	192.01	367.47	1.000	13C12-HxCDF	789	IS8
			Height			143.56	49.03	94.53				
			35:37	RO	0.82	2.09	0.94	1.15			1.008	
384-386			8 Peaks			2,701.51						

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

HxCDD			1.05-1.43					0.959-1.013					
390-392	DC	NL	Height			0.13	0.06	0.07					
			33:29		1.22	3.22	1.77	1.45			0.964	J	
	DC	SN	33:57	RO	1.75	1.10					0.977		
	DC	SN	34:04	RO	4.00	0.80					0.981		
			34:08		1.22	1.73	0.95	0.78			0.983	J	
	DC	SN	34:33	RO	3.83	0.58					0.995		
	DC	SN	34:40	RO	0.65	0.33		1.000			123478-HxCDD	AN	
	DC	SN	34:45		1.29	0.48		1.000			123678-HxCDD	AN	
			35:05		1.40	1.61	0.94	0.67			1.010	123789-HxCDD	AN
	DC	WH	35:20	RO	1.75	0.55					1.017		
390-392			3 Peaks			6.56							

13C12-HxCDD			1.05-1.43					0.983-1.041				
402-404	DC	NL	Height			0.25	0.17	0.08				
	DC	WL	33:42	RO	1.76	0.69		0.973				
			34:08		1.18	2.16	1.17	0.99			0.985	
			34:39		1.29	447.79	252.62	195.17	1.000	13C12-HxCDD	478	IS9
			Height			137.87	76.81	61.06				
			34:44		1.17	501.12	269.78	231.34	1.000	13C12-HxCDD	678	IS10
			Height			145.48	79.73	65.75				
			35:04		1.20	554.06	302.34	251.72	1.012	13C12-HxCDD	789	RS2
			35:22		1.24	2.67	1.48	1.19			1.021	
			35:30		1.07	1.53	0.79	0.74			1.025	
402-404			6 Peaks			1,509.33						

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			0.955-1.005		
408-410	DC NL	Height	0.12	0.06	0.06		
		37:02	1.10	5.72	3.00	2.72	1.000 1234678-HpCDF AN J
	DC SN	37:14 RO	0.58	0.38		0.964	
		37:27	1.13	2.69	1.43	1.26	0.970 J
	DC SN	37:40 RO	1.38	0.31		0.975	
408-410		2 Peaks		8.41			

13C12-HpCDF		0.37-0.51			0.856-1.141		
418-420	DC NL	Height	0.22	0.09	0.13		
		37:02	0.44	456.43	140.27	316.16	1.000 13C12-HpCDF 678 IS11
			Height	117.53	35.82	81.71	
		38:37	0.43	338.67	102.30	236.37	1.000 13C12-HpCDF 789 IS12
			Height	73.95	22.29	51.66	
418-420		2 Peaks		795.10			

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

HpCDD		0.88-1.20			0.976-1.005		
424-426	DC NL	Height	0.15	0.08	0.07		
		37:19	1.07	24.77	12.83	11.94	0.979
	DC SN	37:43	0.88	0.32		0.990	
	DC SN	37:54 RO	1.75	0.22		0.995	
		38:07	1.00	12.84	6.42	6.42	1.000 1234678-HpCDD AN
	DC WH	38:20	1.00	0.28		1.006	
424-426		2 Peaks		37.61			

13C12-HpCDD		0.88-1.20			0.868-1.078		
436-438	DC NL	Height	0.39	0.27	0.12		
		37:19	1.18	2.53	1.37	1.16	0.979
		37:27 RO	4.20	2.86	2.31	0.55	0.983
		38:06	1.04	396.75	202.03	194.72	1.000 13C12-HpCDD 678 IS13
			Height	94.57	48.52	46.05	
		38:28 RO	1.53	1.09	0.66	0.43	1.010
	DC SN	38:35 RO	0.84	1.36		1.013	
436-438		4 Peaks		403.23			

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

OCDF		0.76-1.02			0.952-1.048		
442-444	DC NL	Height	0.15	0.07	0.08		
	DC WL	37:50	0.88	0.15		0.903	
	DC WL	37:58 RO	1.06	0.33		0.906	
	DC WL	38:11 RO	0.50	0.36		0.911	
	DC SN	42:06 RO	1.53	0.91		1.005	OCDF AN
	DC SN	43:21 RO	1.50	0.25		1.035	
	DC WH	44:57 RO	0.19	0.19		1.073	
442-444		0 Peaks		0.00			

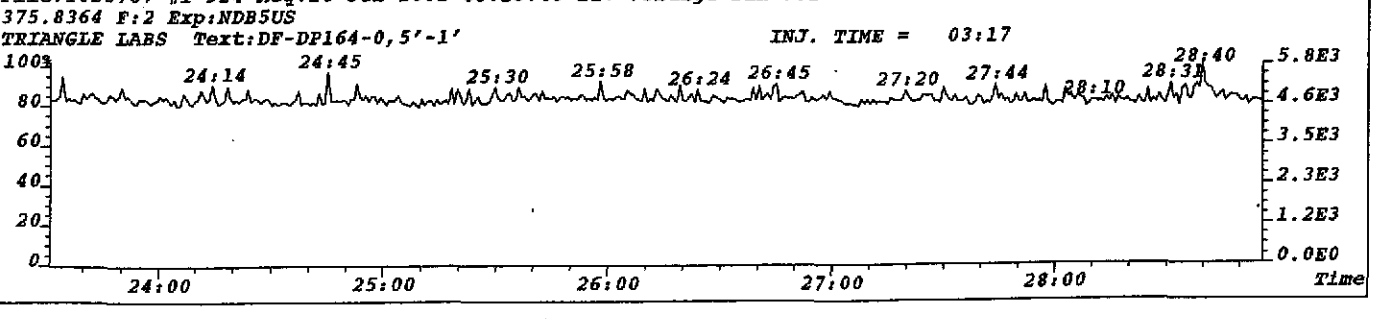
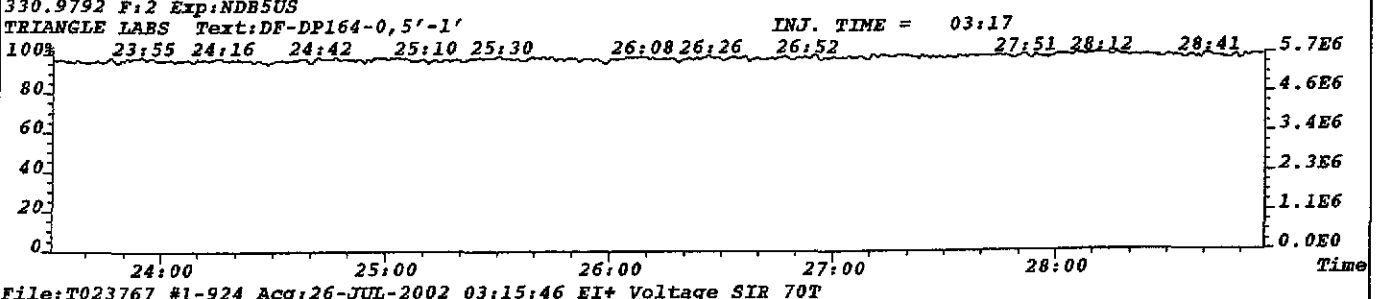
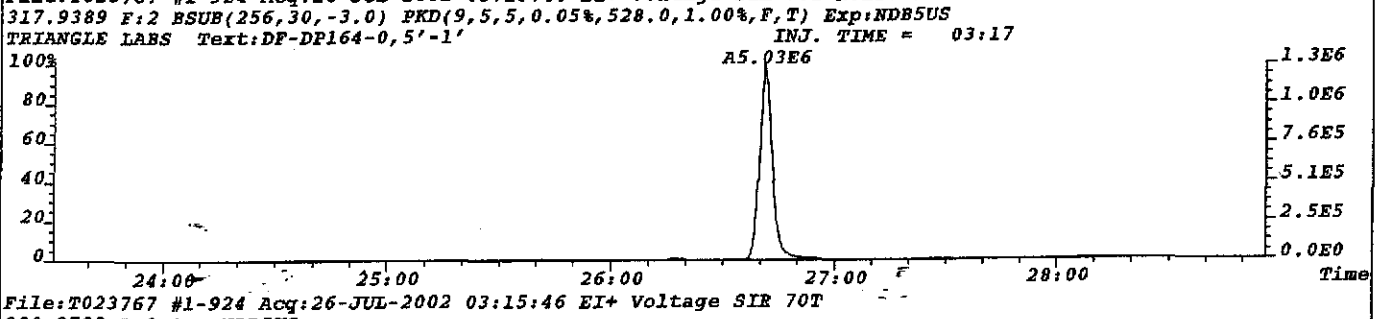
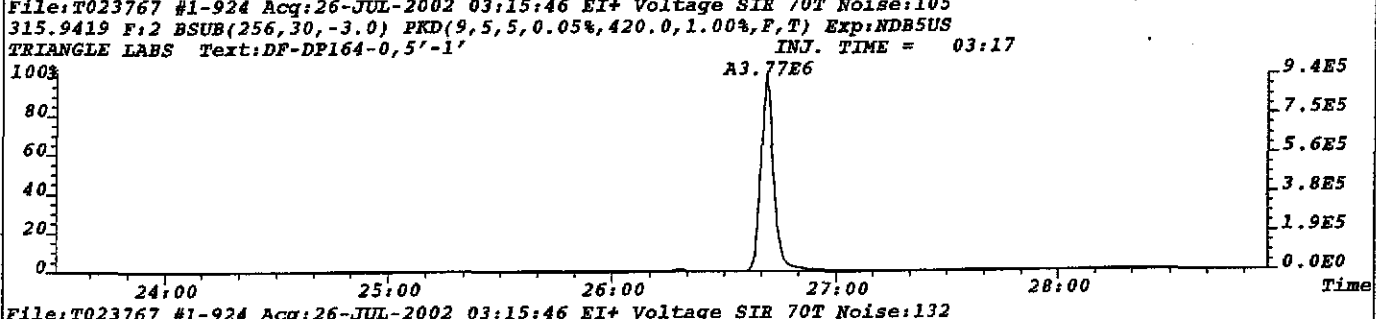
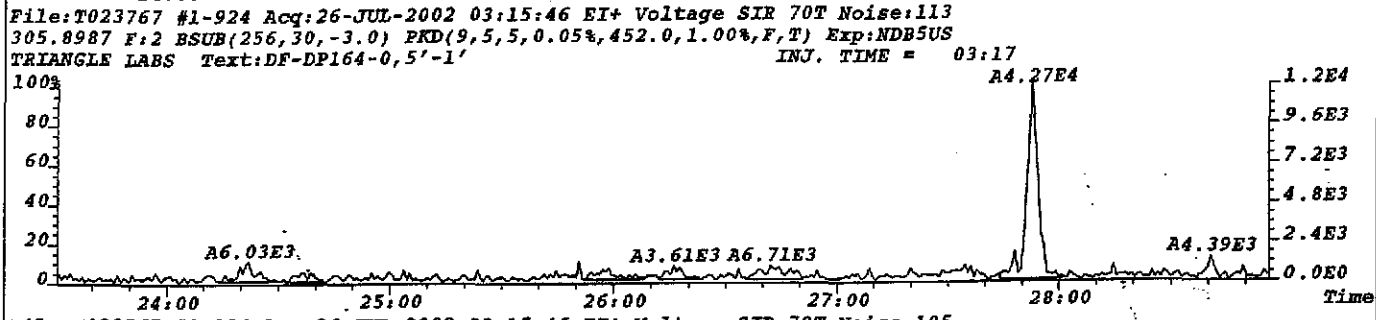
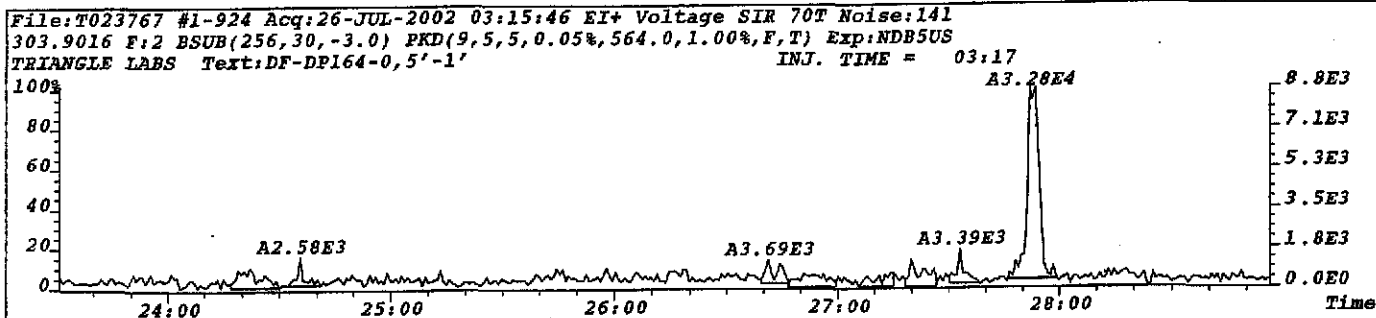
Compound/

M_Z	QC	Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel..RT	Compound.Name..	ID..	Flags.
OCDD					0.76-1.02						0.952-1.048			
458-460	DC		NL		Height			0.11	0.06	0.05				
N					41:54		0.86	174.03	80.39	93.64	1.000	OCDD	AN	
458-460					1 Peak			174.03						
13C12-OCDD					0.76-1.02						0.996-1.004			
470-472	DC		NL		Height			0.18	0.10	0.08				
					41:54		0.85	509.36	233.92	275.44	1.000	13C12-OCDD	IS14	
					Height			97.71	44.79	52.92				
	DC	WH			42:22		0.82	0.91			1.011			
470-472					1 Peak			509.36						

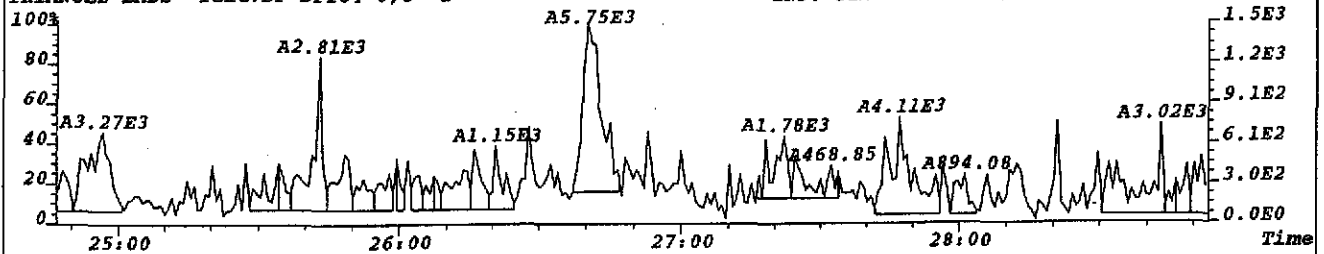
Column Description..... "Why" Code Description..... QC Log Desc.....

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

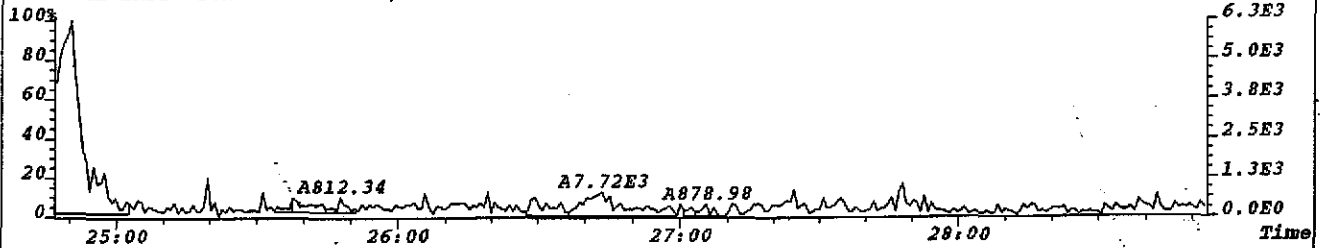
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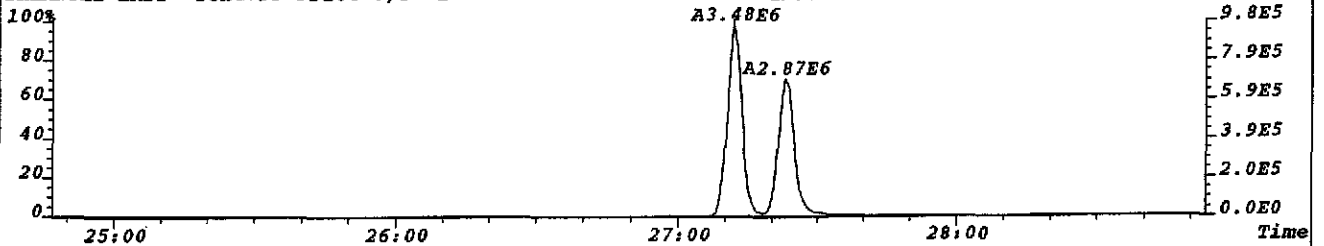
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319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,356.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



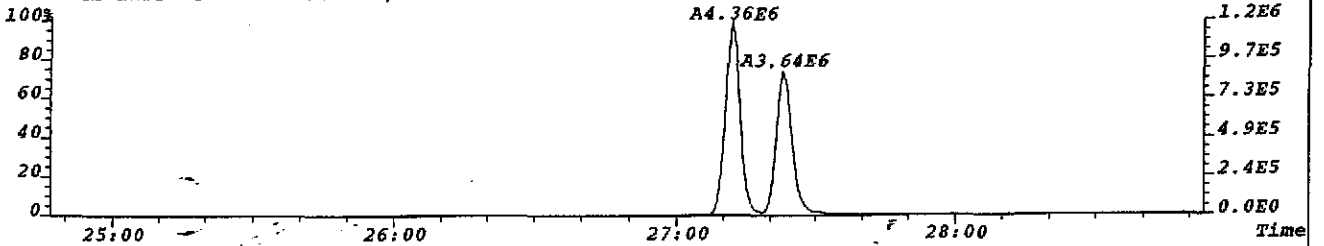
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321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,384.0,1.00%,F,T) Exp:NDB5US
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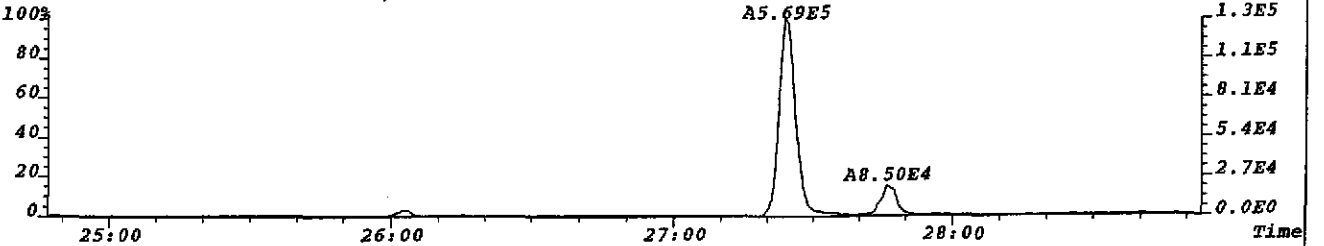
File:T023767 #1-924 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:244
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,976.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



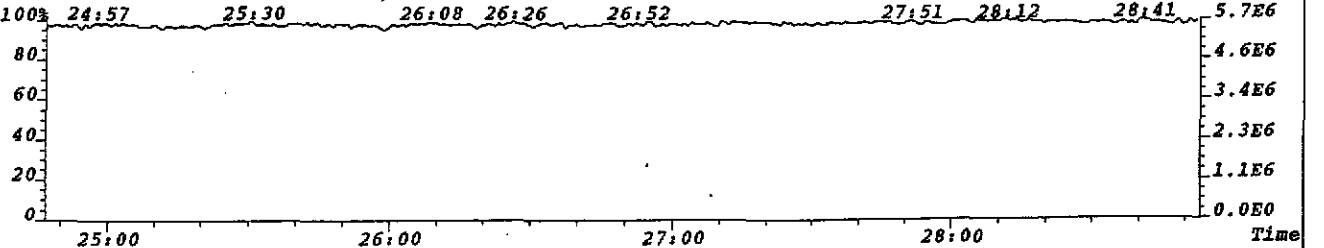
File:T023767 #1-924 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:119
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,476.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



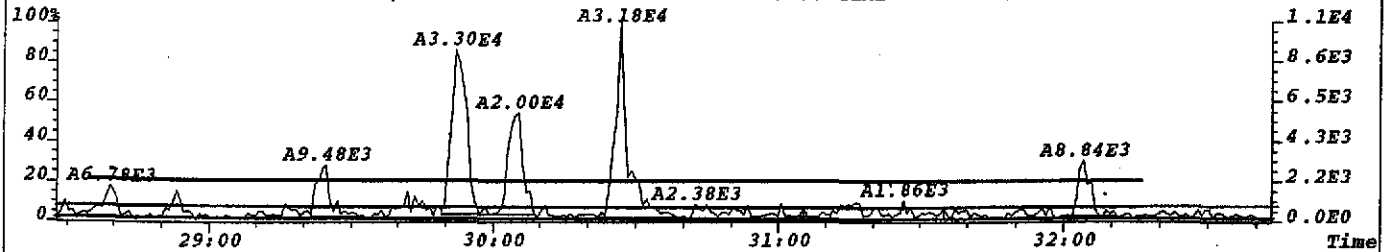
File:T023767 #1-924 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:104
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,416.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



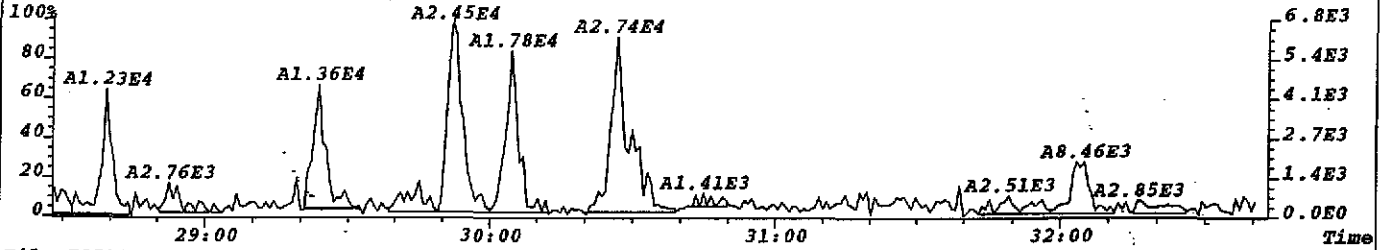
File:T023767 #1-924 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



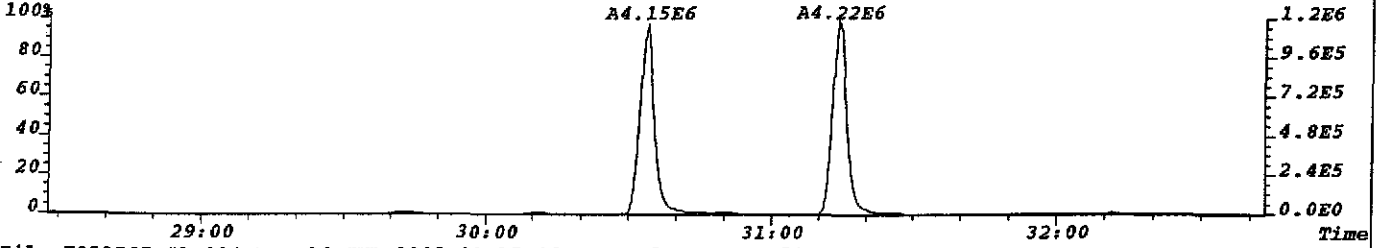
File:T023767 #1-924 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:109
 339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,436.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



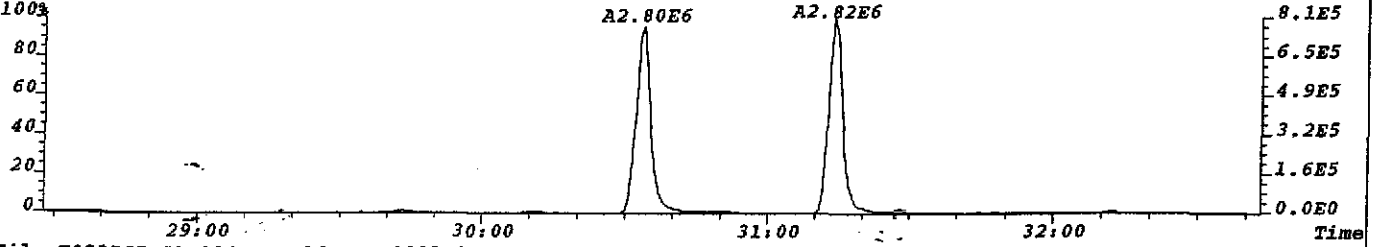
File:T023767 #1-924 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:123
 341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,492.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



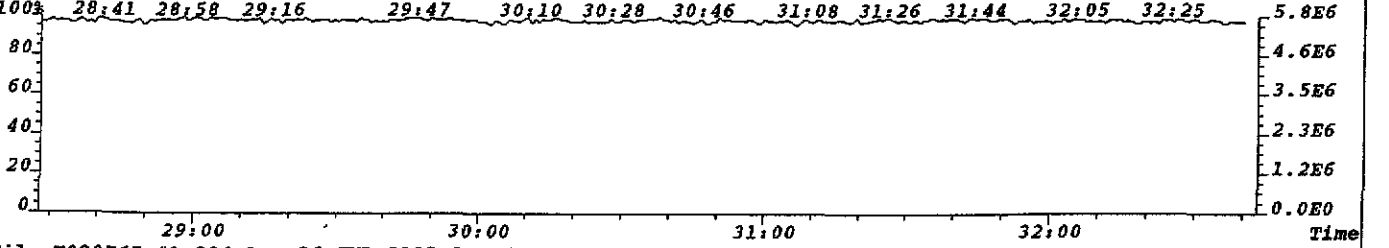
File:T023767 #1-924 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:77
 351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



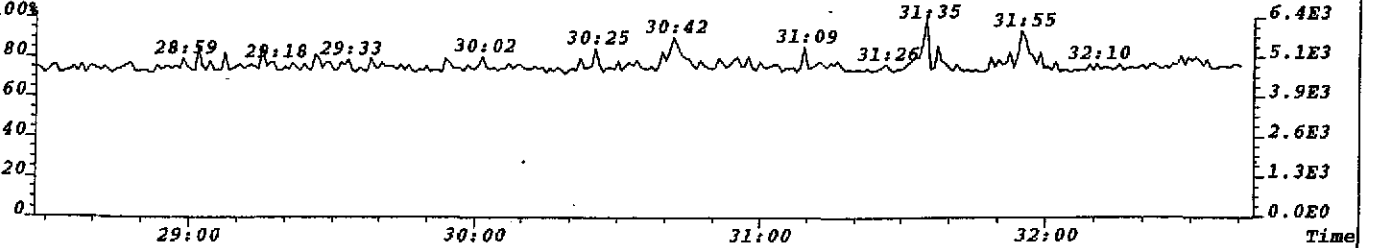
File:T023767 #1-924 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:102
 353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,408.0,1.00%,F,T) Exp:NDB5US
 TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



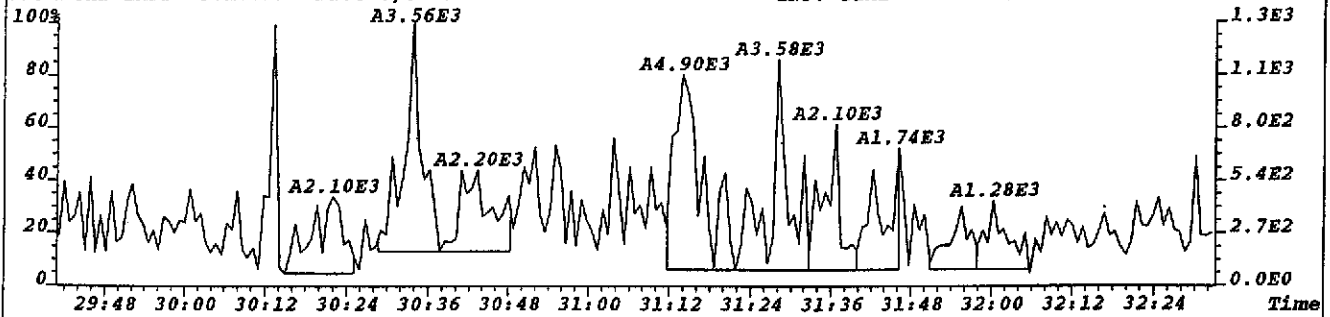
File:T023767 #1-924 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T
 330.9792 F:2 Exp:NDB5US
 TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



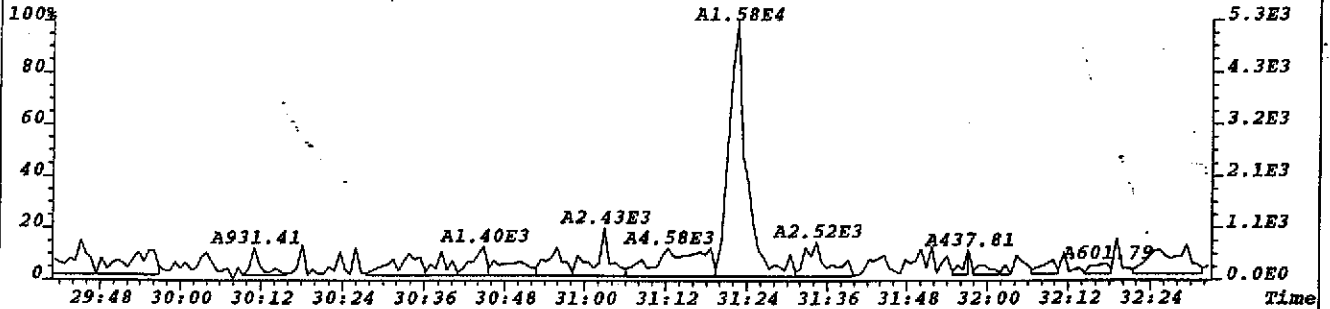
File:T023767 #1-924 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T
 409.7974 F:2 Exp:NDB5US
 TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



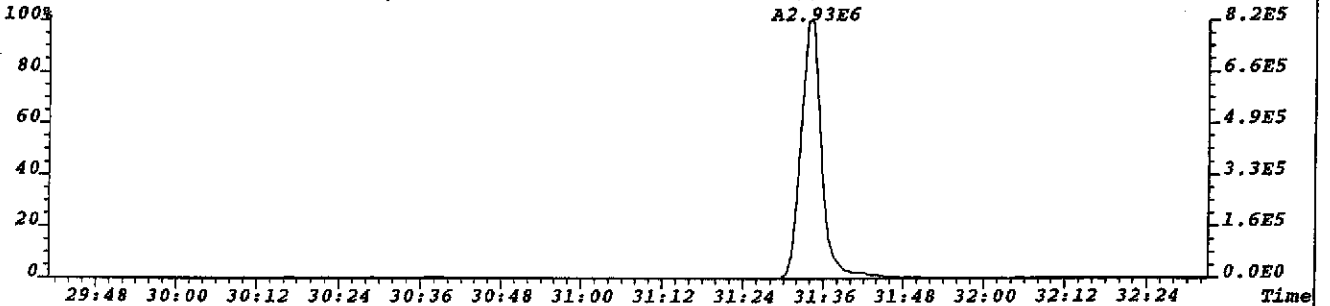
File:T023767 #1-924 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:92
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,368.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



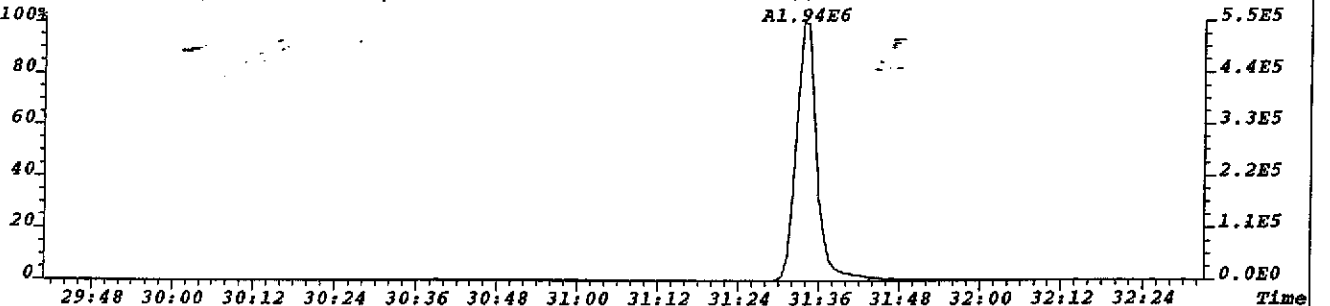
File:T023767 #1-924 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:87
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,348.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



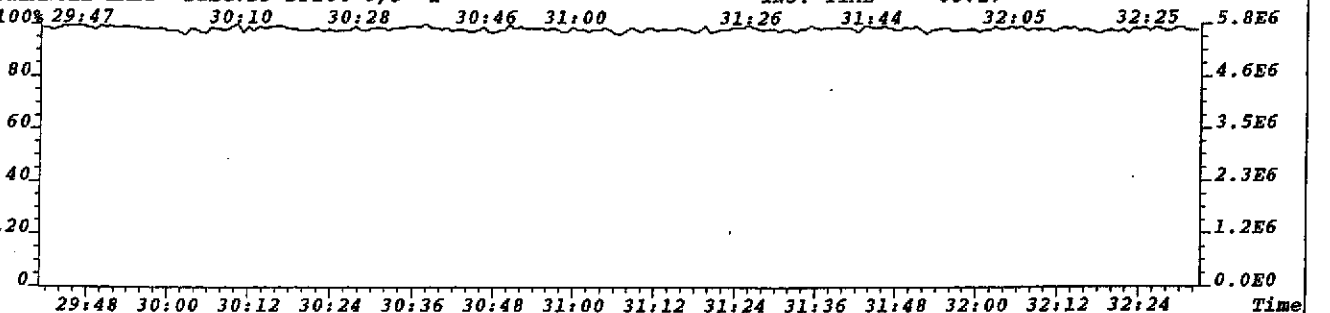
File:T023767 #1-924 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:119
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,476.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



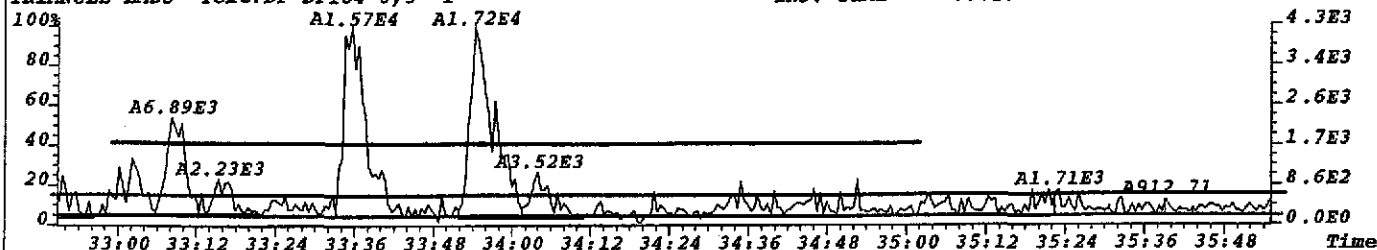
File:T023767 #1-924 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:95
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,380.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



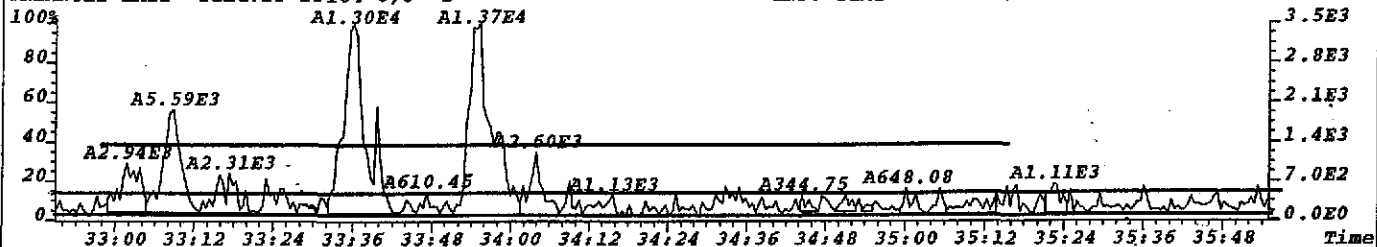
File:T023767 #1-924 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



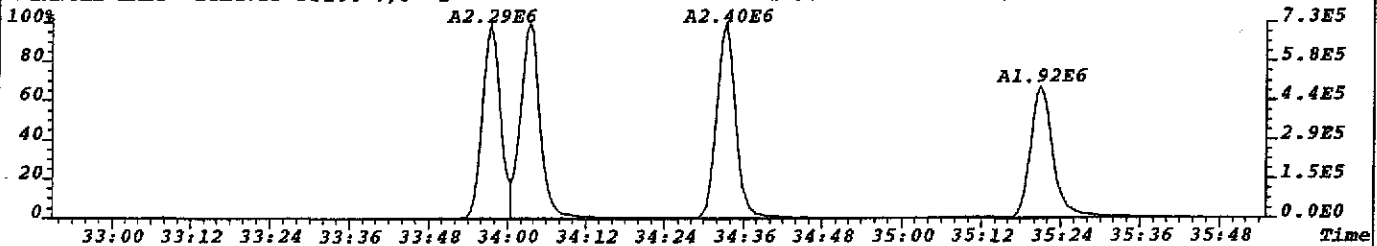
File:T023767 #1-386 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:107
373.8208 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,428.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



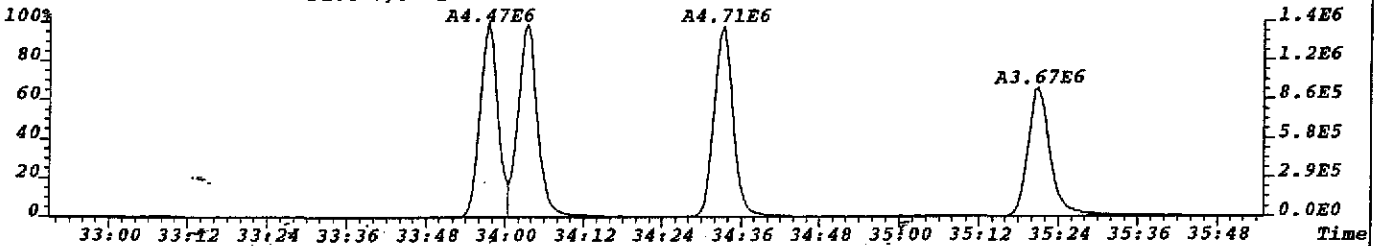
File:T023767 #1-386 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:81
375.8178 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,324.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



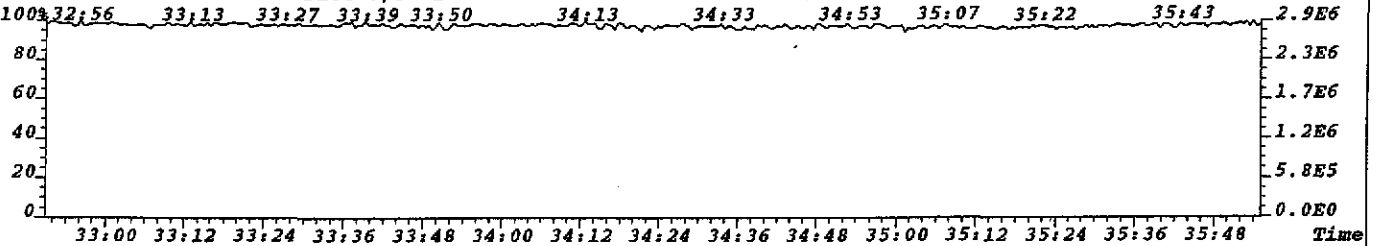
File:T023767 #1-386 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:187
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,748.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



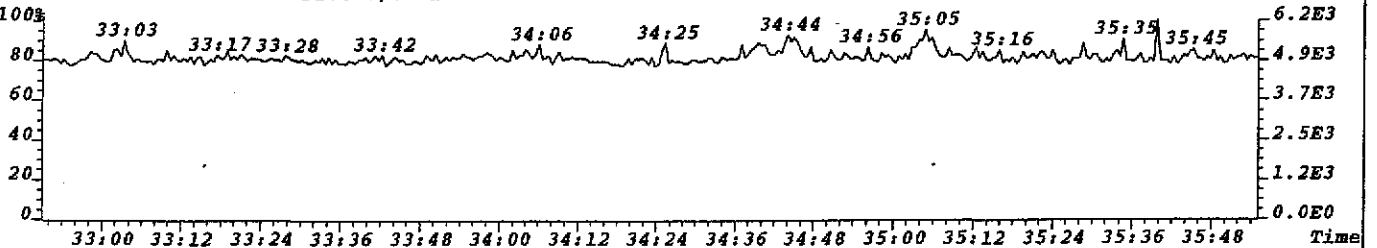
File:T023767 #1-386 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:330
383.8639 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,1320.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



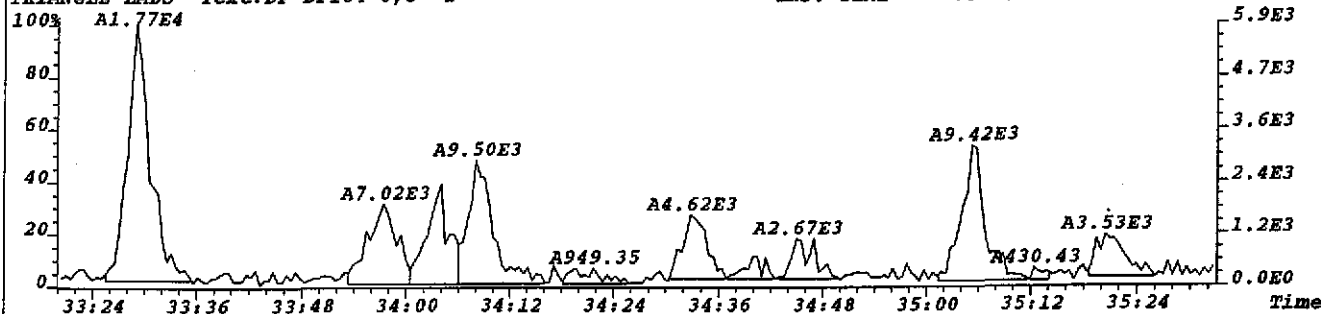
File:T023767 #1-386 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



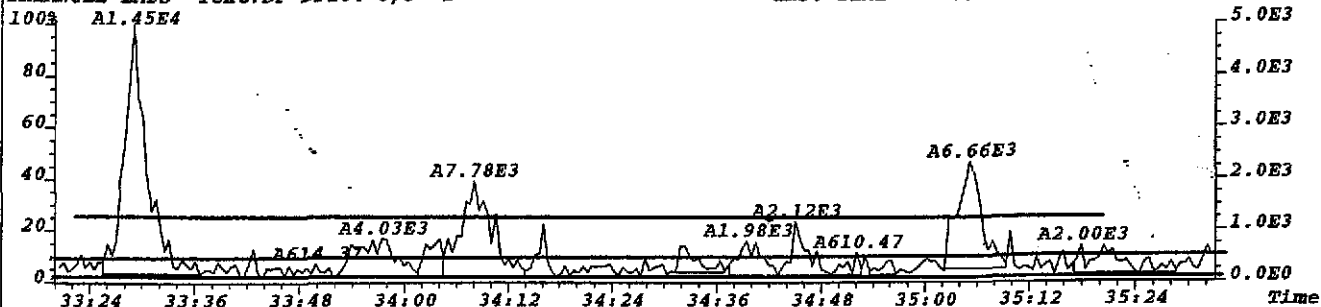
File:T023767 #1-386 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



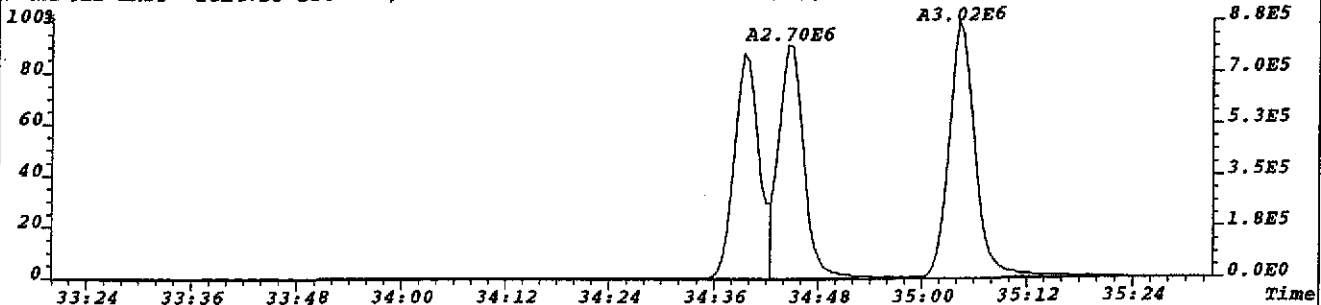
File:T023767 #1-386 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:78
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,312.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



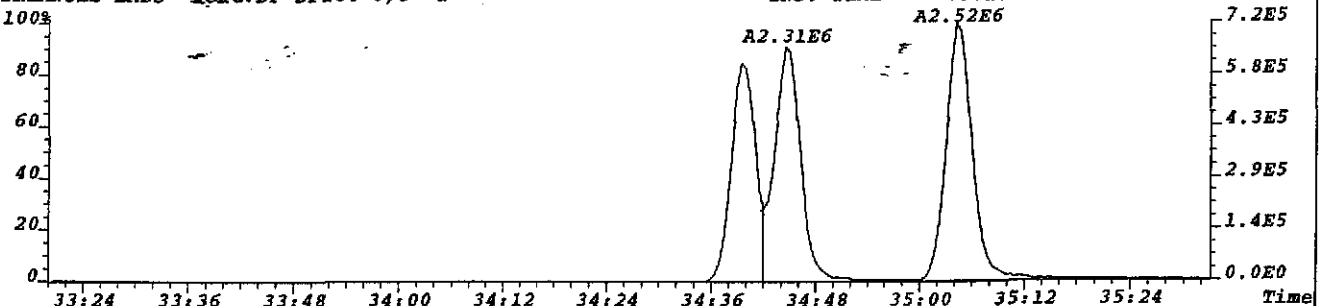
File:T023767 #1-386 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:91
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



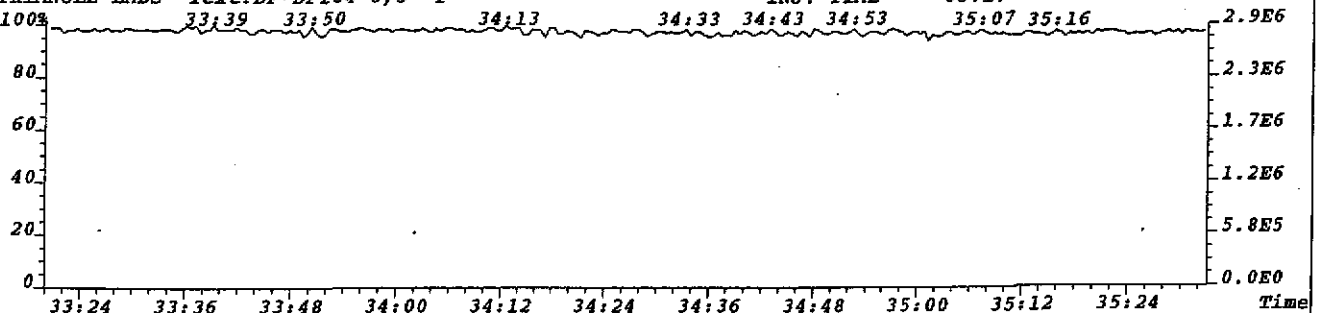
File:T023767 #1-386 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:214
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,856.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



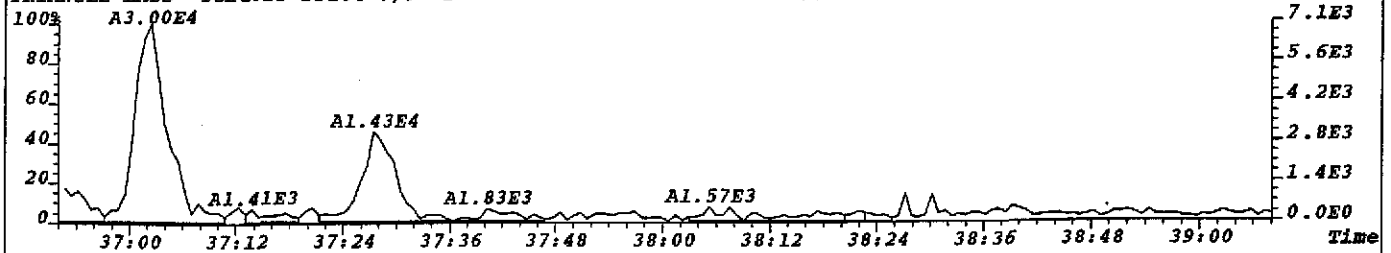
File:T023767 #1-386 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:102
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,408.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



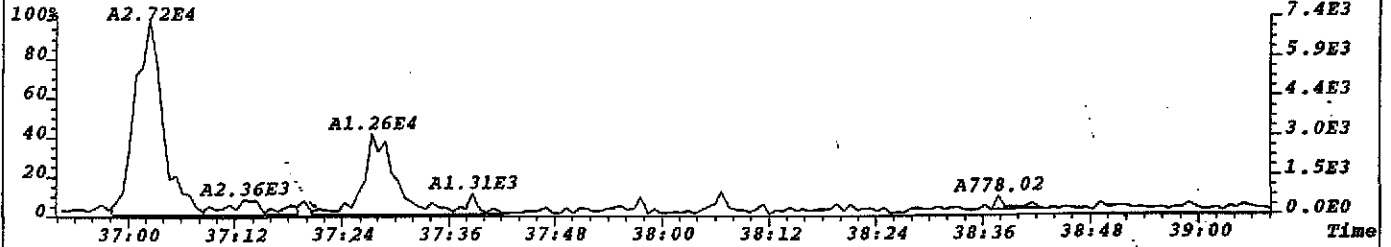
File:T023767 #1-386 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



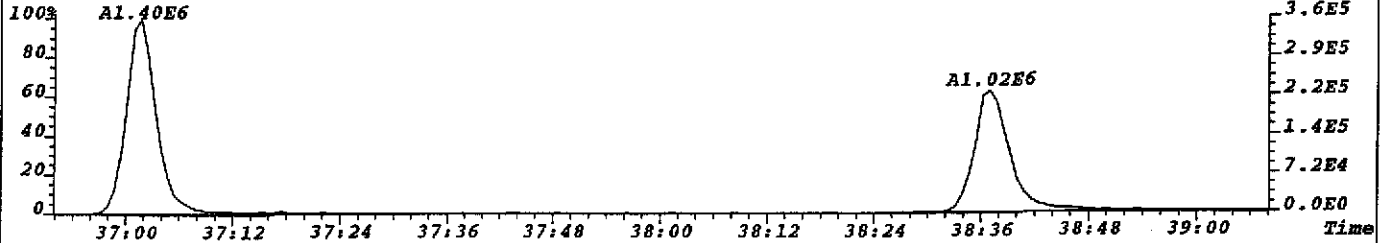
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:81
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,324.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



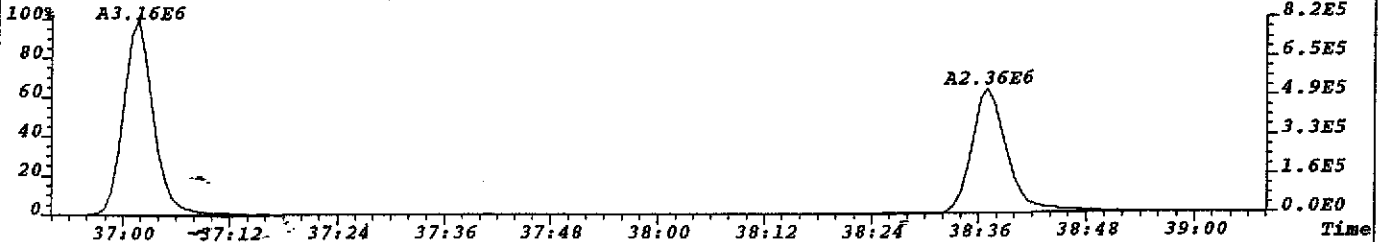
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:77
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,308.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



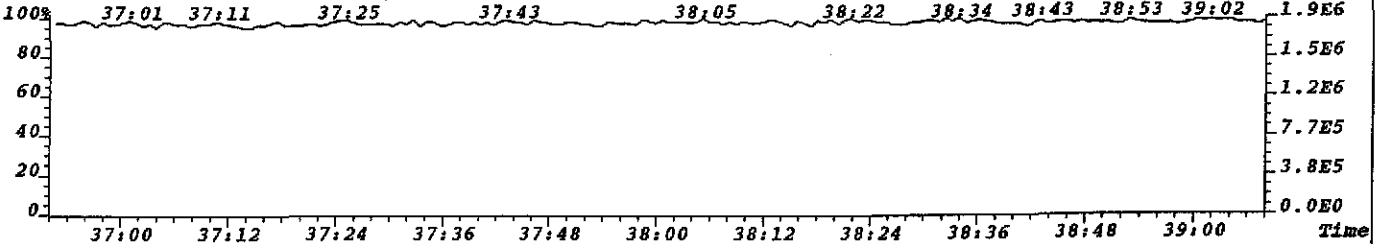
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:116
417.8223 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,464.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



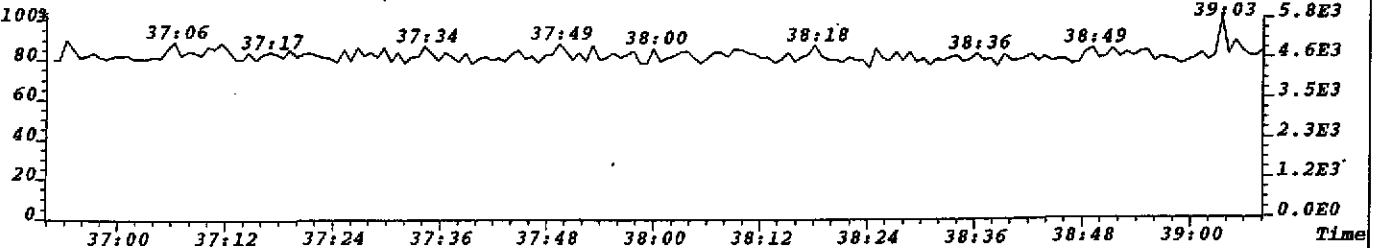
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:158
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,632.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



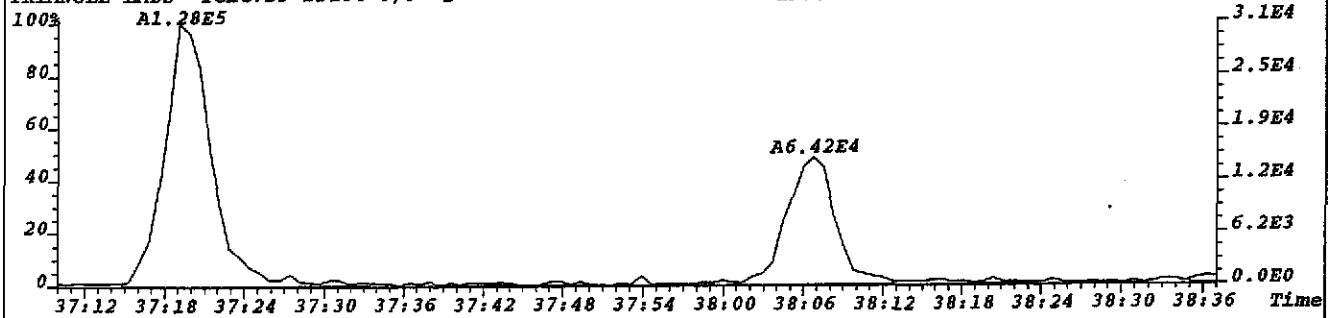
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



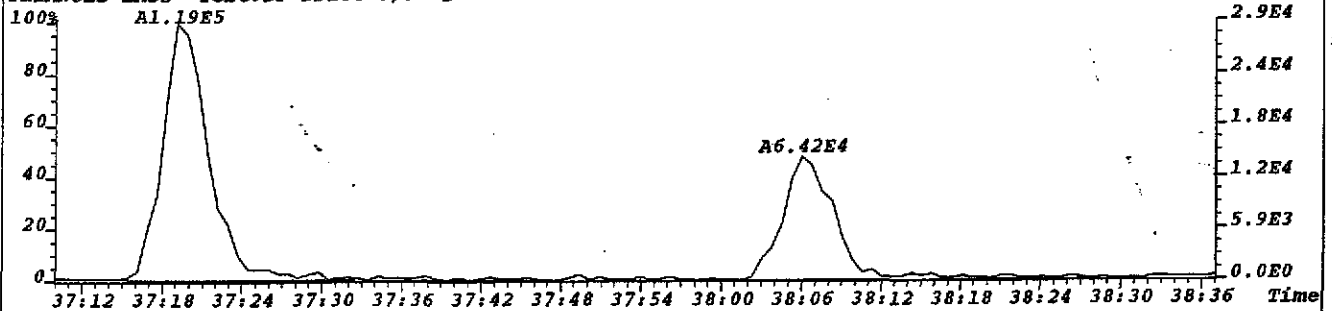
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



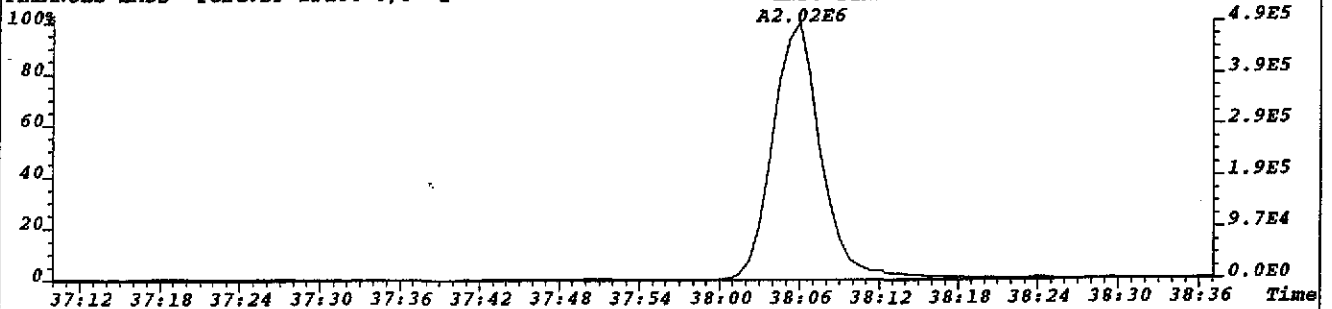
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:97
423.7766 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,388.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



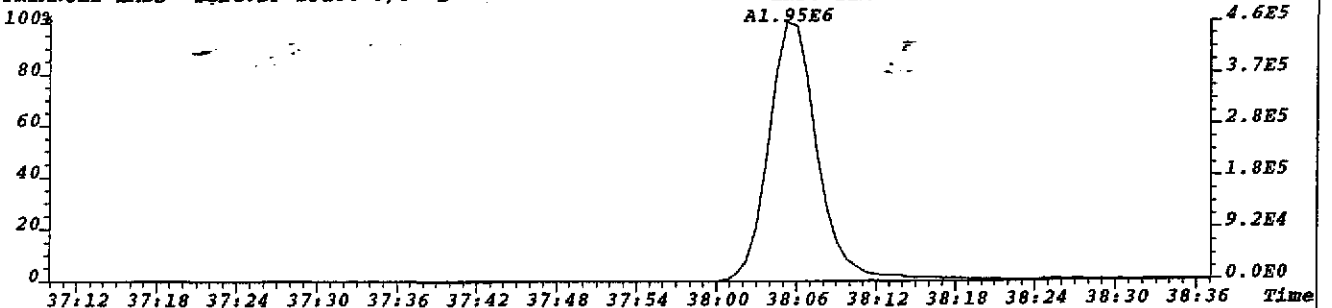
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:88
425.7737 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,352.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



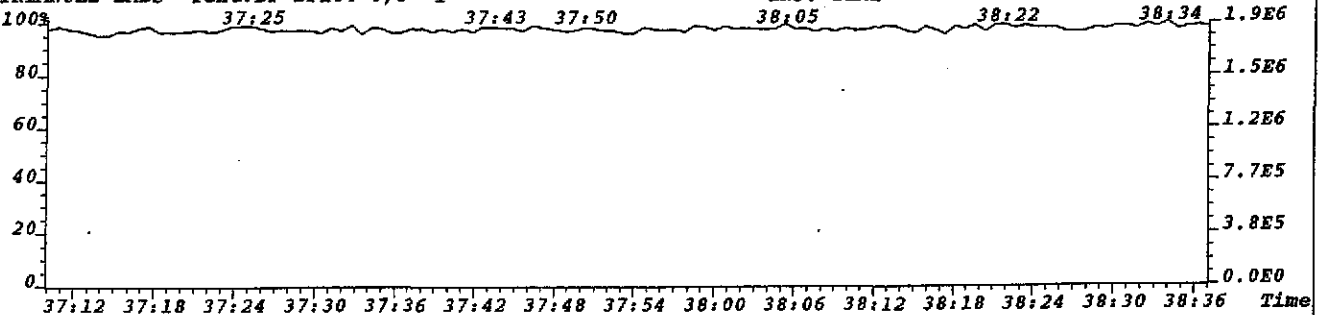
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:333
435.8169 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,1332.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



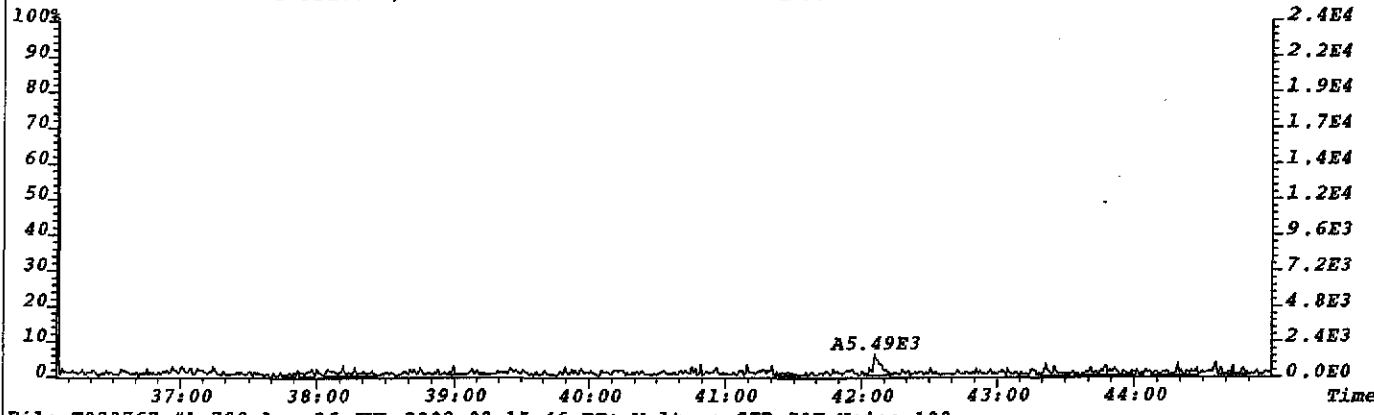
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:148
437.8140 F:4 BSub(256,30,-3.0) PKD(7,5,3,0.05%,592.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



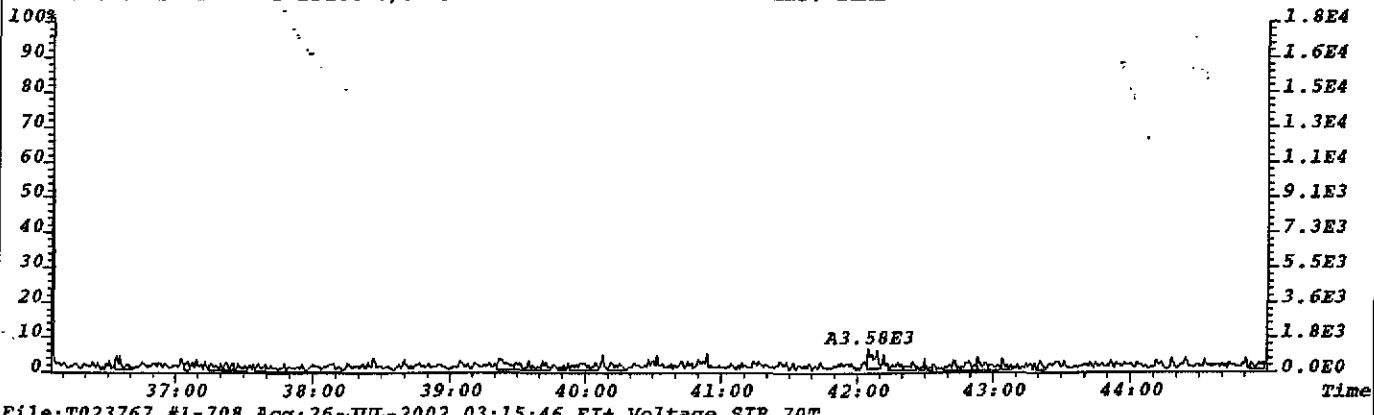
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



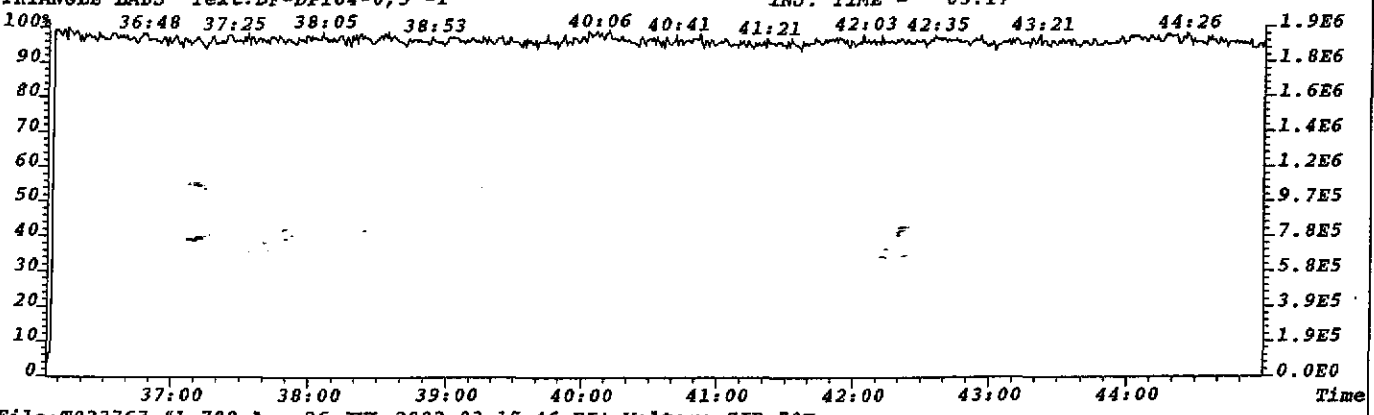
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:87
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,348.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



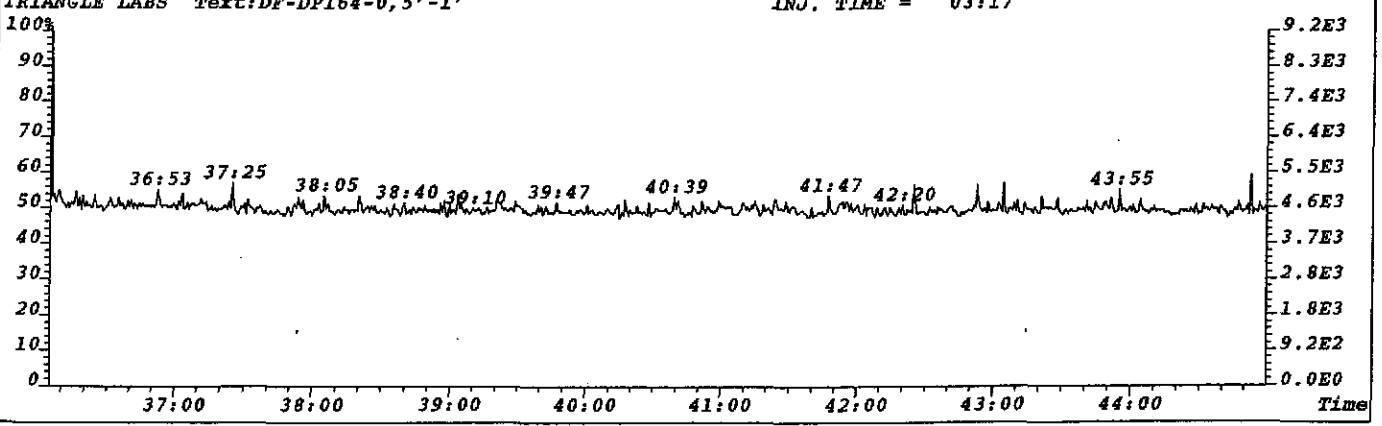
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:103
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,412.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



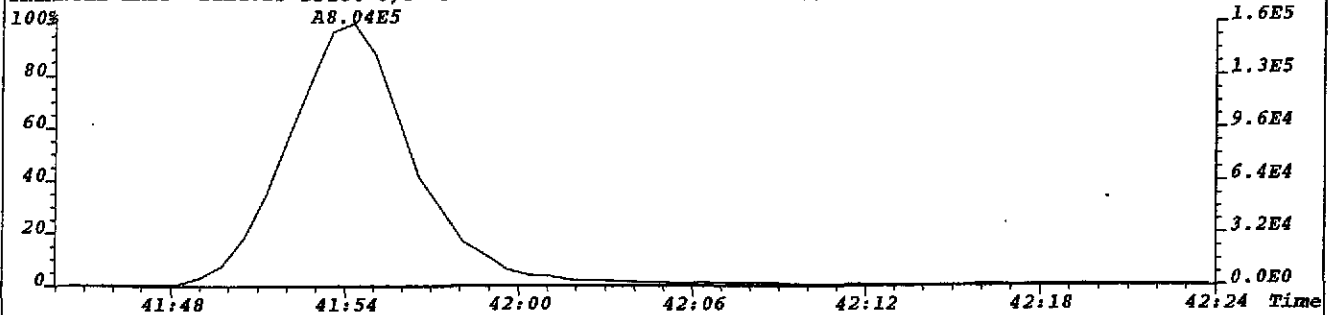
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



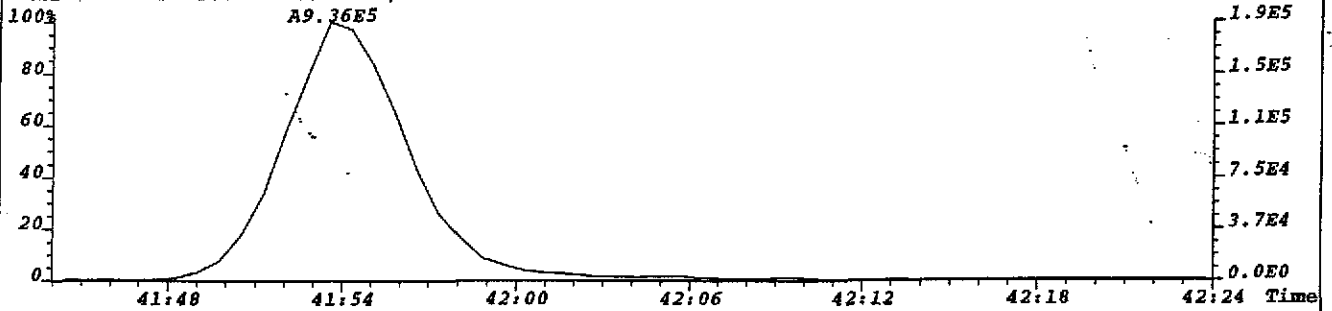
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



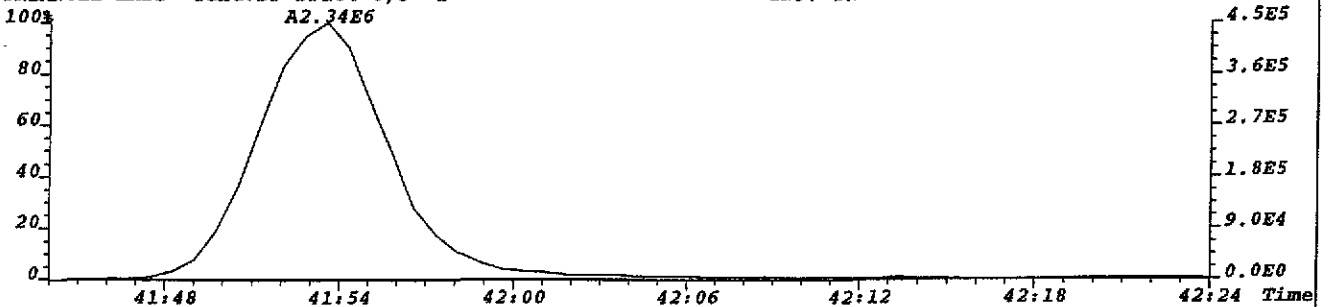
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:71
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,284.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



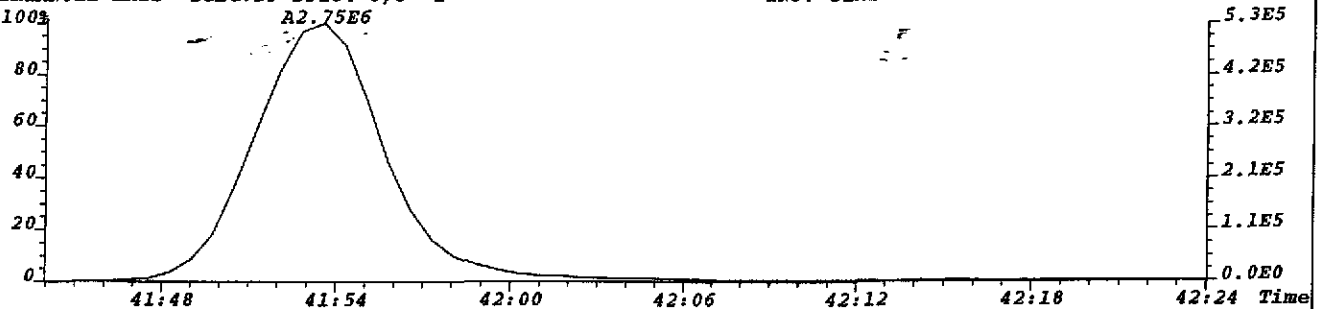
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:66
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,264.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



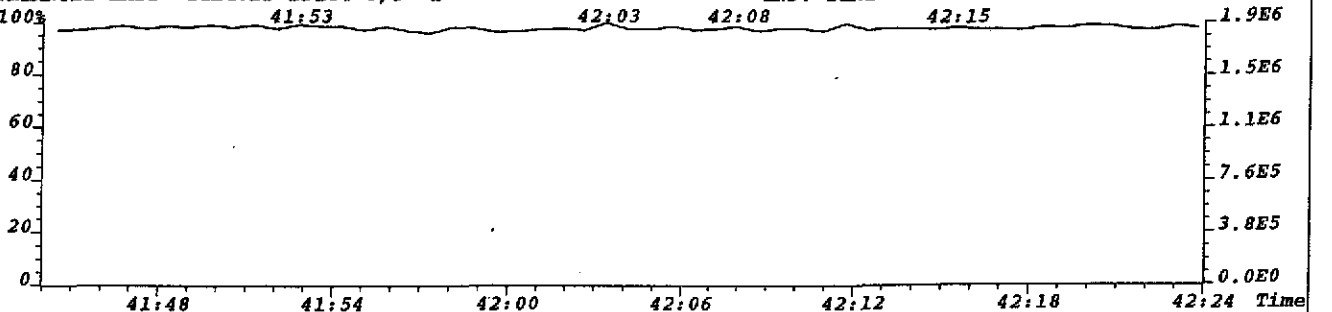
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:128
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,512.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17

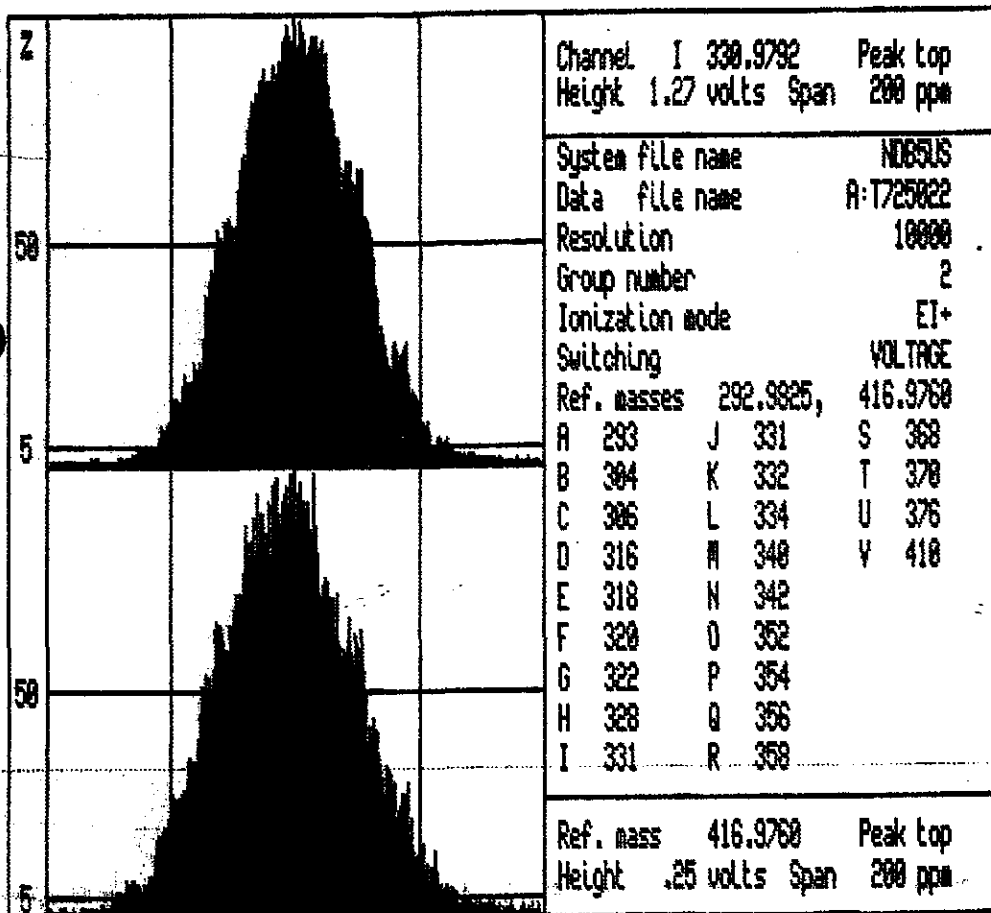


File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T Noise:100
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,400.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17



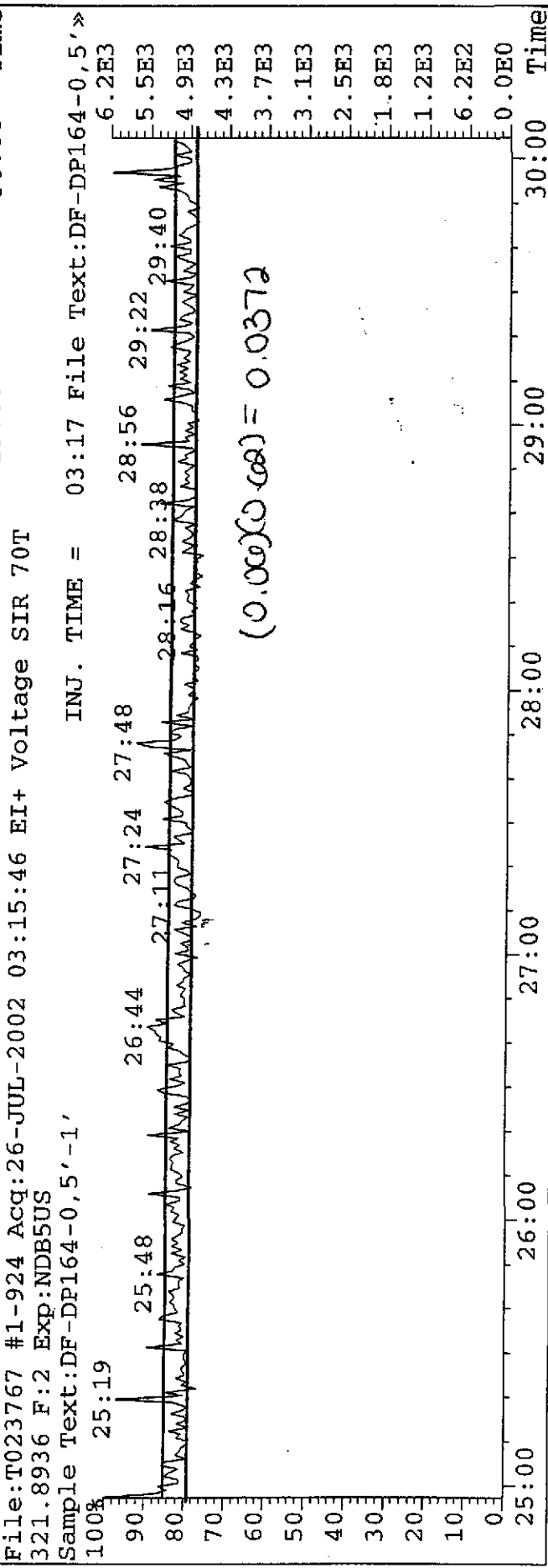
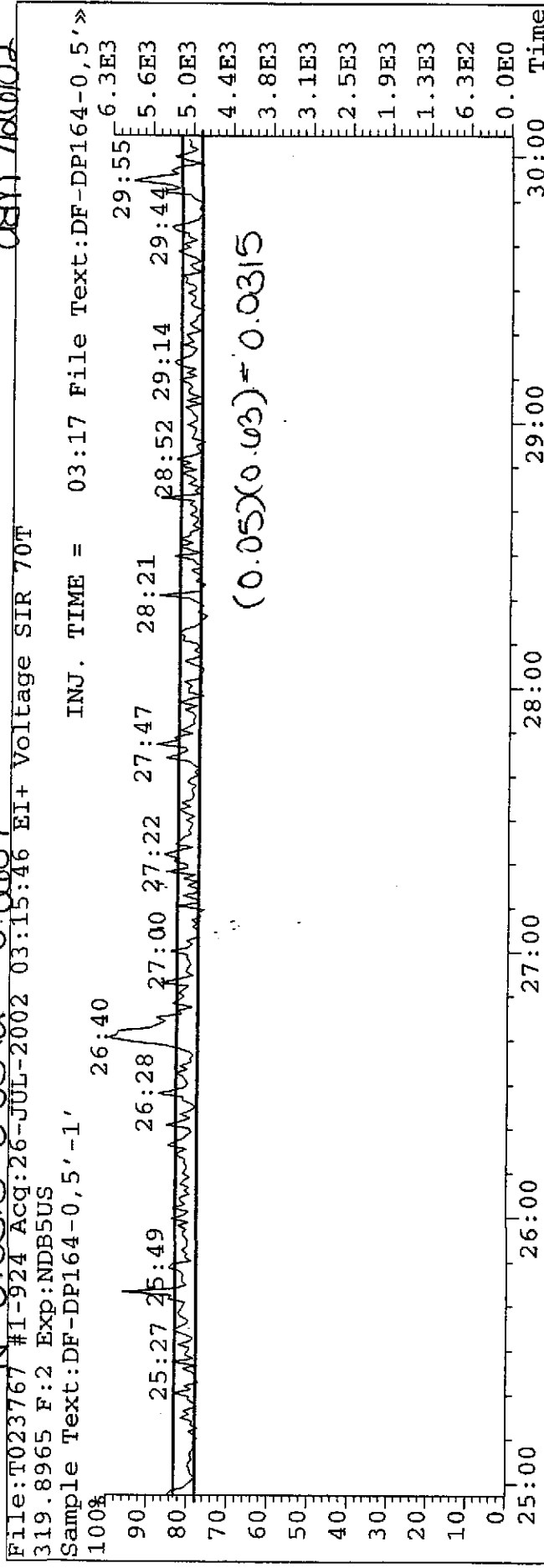
File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-0,5'-1' INJ. TIME = 03:17





CEN 786602

$N = 0.0315 + 0.0372 = 0.0687$



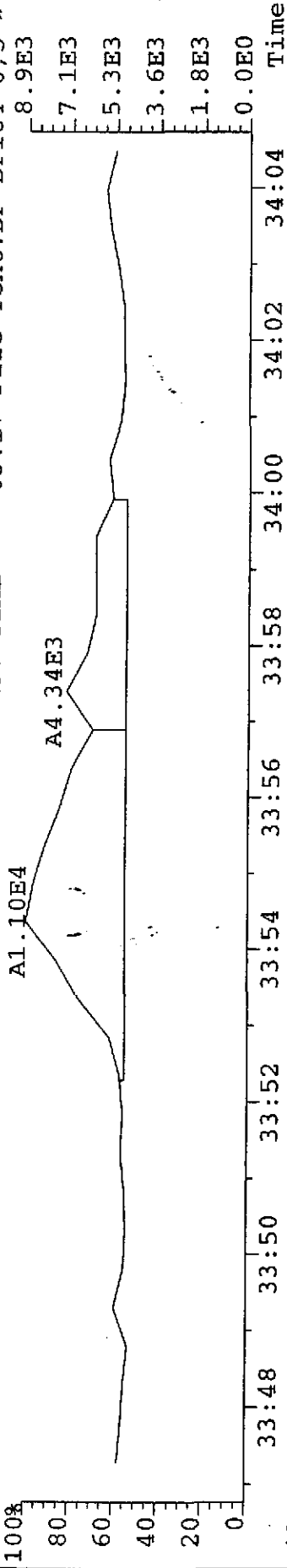
Gen 71aw102

File:T023767 #1-386 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T

373.8208 F:3 Exp:NDB5US

Sample Text:DF-DP164-0,5'-1'

INJ. TIME = 03:17 File Text:DF-DP164-0,5'»

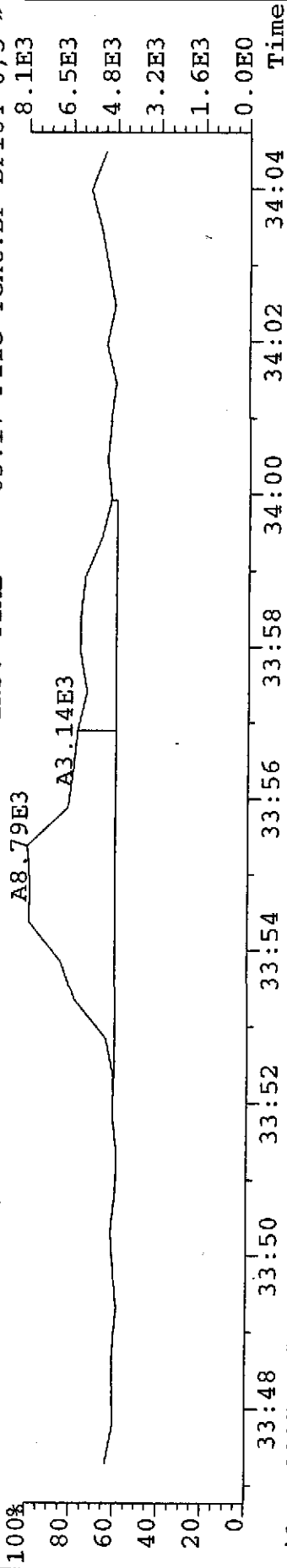


File:T023767 #1-386 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T

375.8178 F:3 Exp:NDB5US

Sample Text:DF-DP164-0,5'-1'

INJ. TIME = 03:17 File Text:DF-DP164-0,5'»

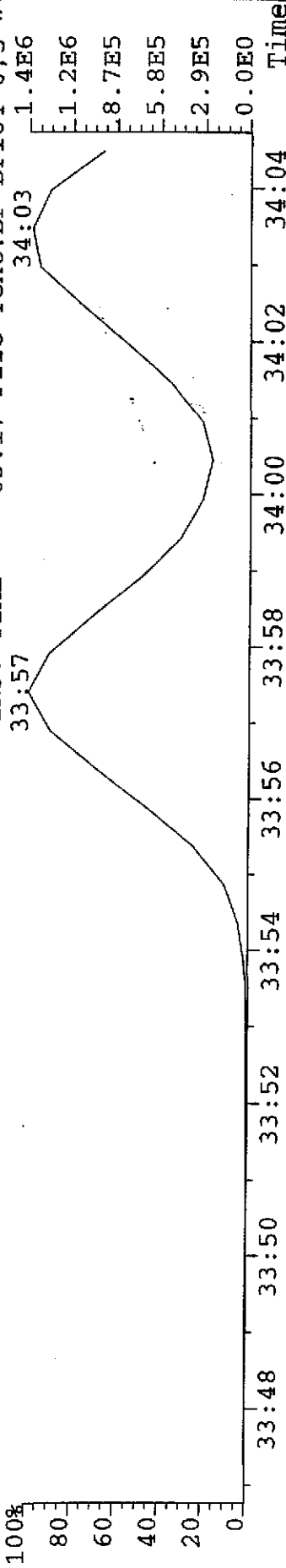


File:T023767 #1-386 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T

385.8610 F:3 Exp:NDB5US

Sample Text:DF-DP164-0,5'-1'

INJ. TIME = 03:17 File Text:DF-DP164-0,5'»



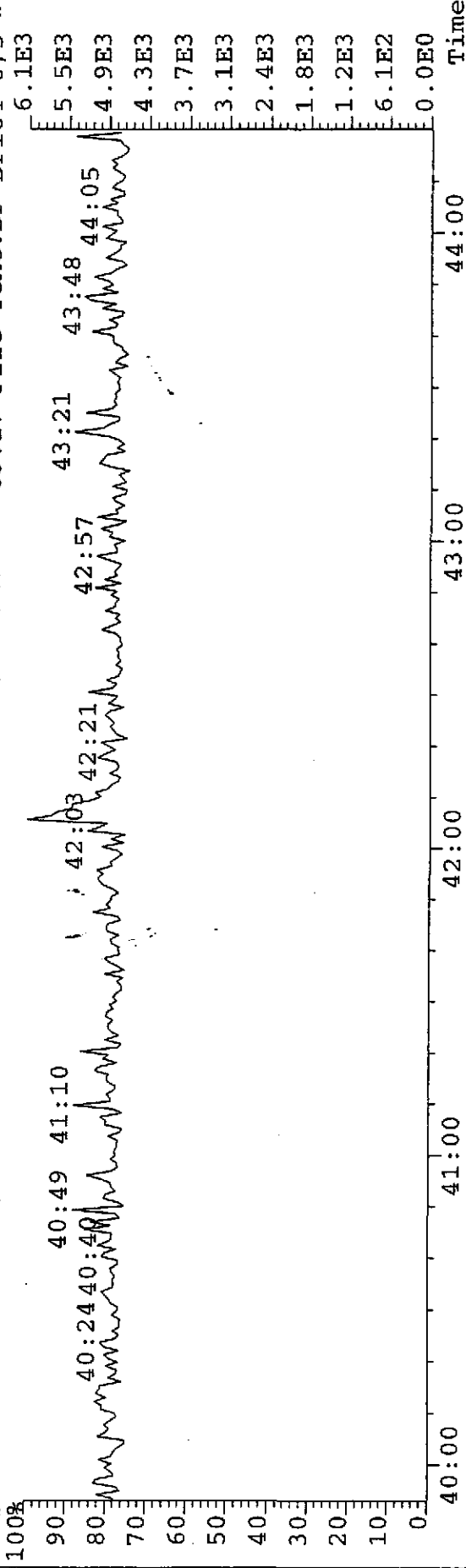
SEM 712002

File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T

441.7428 F:4 Exp:NDB5US

Sample Text:DF-DP164-0,5'-1'

INJ. TIME = 03:17 File Text:DF-DP164-0,5'»

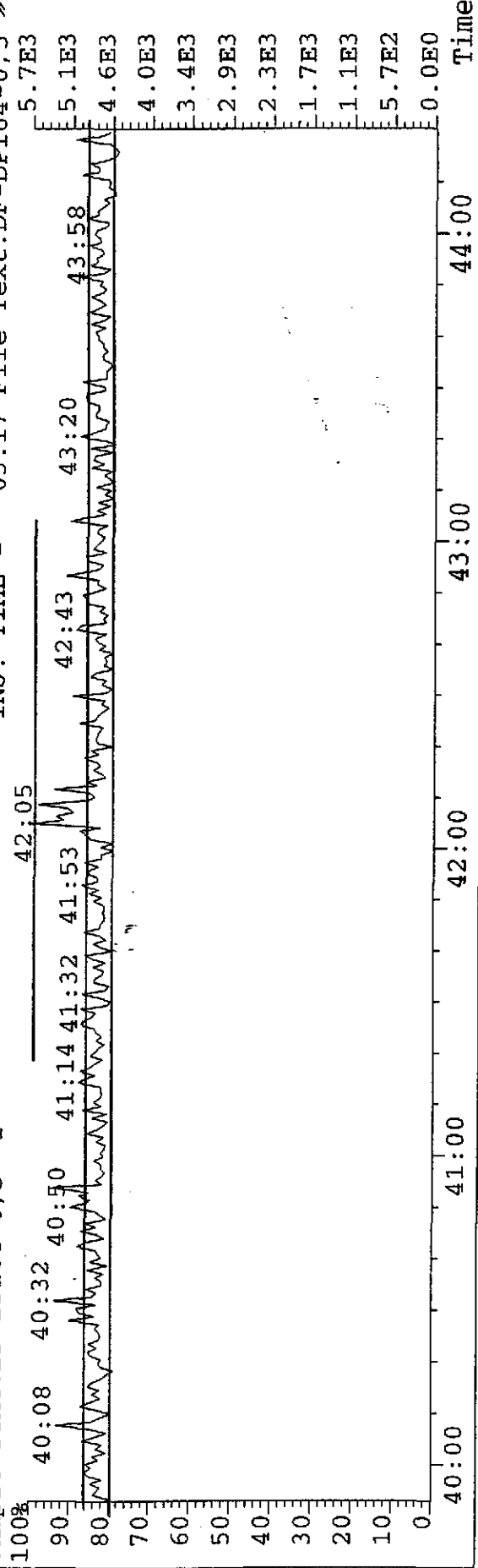


File:T023767 #1-708 Acq:26-JUL-2002 03:15:46 EI+ Voltage SIR 70T

443.7399 F:4 Exp:NDB5US

Sample Text:DF-DP164-0,5'-1'

INJ. TIME = 03:17 File Text:DF-DP164-0,5'»



TLI Project: 57930 1613, Revision B PCDD/PCDF Analysis (c)
 Client Sample: DF-DP164-1'-2' Analysis File: T023768

Client Project:	Kuhlman Electric		
Sample Matrix:	SOLID	Date Received:	07/20/2002
TLI ID:	331-18-6	Date Extracted:	07/23/2002
		Date Analyzed:	07/26/2002
		Spike File:	SP161B2S
		ICal:	TF5612B
		ConCal:	TB23758
Sample Size:	12.000 g	Dilution Factor:	n/a
Dry Weight:	10.056 g	Blank File:	T023762
GC Column:	DB-5	Analyst:	VSC
		% Moisture:	16.2
		% Lipid:	n/a
		% Solids:	83.8

Analytes	Conc. (pg/g)	DL	Ratio	RT	RFT	Flags
2,3,7,8-TCDD	ND	0.2				---
1,2,3,7,8-PeCDD	ND	0.2				---
1,2,3,4,7,8-HxCDD	ND	0.2				---
1,2,3,6,7,8-HxCDD	ND	0.2				---
1,2,3,7,8,9-HxCDD	0.45		1.28	35:05	1.010	J_
1,2,3,4,6,7,8-HpCDD	3.2		0.94	38:07	1.000	J_
1,2,3,4,6,7,8,9-OCDD	54.2		0.85	41:54	1.000	---
2,3,7,8-TCDF	ND	0.1				---
1,2,3,7,8-PeCDF	ND	0.1				---
2,3,4,7,8-PeCDF	ND	0.1				---
1,2,3,4,7,8-HxCDF	ND	0.1				---
1,2,3,6,7,8-HxCDF	ND	0.1				---
2,3,4,6,7,8-HxCDF	ND	0.1				---
1,2,3,7,8,9-HxCDF	ND	0.2				---
1,2,3,4,6,7,8-HpCDF	0.42		1.11	37:02	1.000	J_
1,2,3,4,7,8,9-HpCDF	ND	0.3				---
1,2,3,4,6,7,8,9-OCDF	ND	0.5				---

Totals	Conc. (pg/g)	Number	DL	Flags
Total TCDD	ND		0.2	---
Total PeCDD	ND		0.2	---
Total HxCDD	2.1	2		---
Total HpCDD	9.6	2		---
Total TCDF	ND		0.1	---
Total PeCDF	0.20	1		---
Total HxCDF	ND		0.1	---
Total HpCDF	0.42	1		---

TLI Project: 57930
 Client Sample: DF-DP164-1'-2'

Toxicity Equivalents Report
 Analysis File: T023768

Client Project:	Kuhlman Electric	Date Received:	07/20/02	Spike File:	SP161B2S
Sample Matrix:	SOLID	Date Extracted:	07/23/02	ICal:	TF5612B
TLI ID:	331-18-6	Date Analyzed:	07/26/02	ConCal:	TB23758
Sample Size:	12.000 g	Dilution Factor:	1	% Moisture:	16.2
Dry Weight:	10.056 g	Blank File:	T023762	% Lipid:	n/a
GC Column:	DB-5	Analyst:	VSC	% Solids:	83.8

Analytes	Conc. (pg/g)		TEF		Equivalent
2,3,7,8-TCDD	{0.2}	x	1.	=	0.2
1,2,3,7,8-PeCDD	{0.2}	x	0.5	=	0.1
1,2,3,4,7,8-HxCDD	{0.2}	x	0.1	=	0.02
1,2,3,6,7,8-HxCDD	{0.2}	x	0.1	=	0.02
1,2,3,7,8,9-HxCDD	0.45	x	0.1	=	0.045
1,2,3,4,6,7,8-HpCDD	3.2	x	0.01	=	0.032
1,2,3,4,6,7,8,9-OCDD	54.2	x	0.001	=	0.0542
TOTAL PCDD					0.5
2,3,7,8-TCDF	{0.1}	x	0.1	=	0.01
1,2,3,7,8-PeCDF	{0.1}	x	0.05	=	0.005
2,3,4,7,8-PeCDF	{0.1}	x	0.5	=	0.05
1,2,3,4,7,8-HxCDF	{0.1}	x	0.1	=	0.01
1,2,3,6,7,8-HxCDF	{0.1}	x	0.1	=	0.01
2,3,4,6,7,8-HxCDF	{0.1}	x	0.1	=	0.01
1,2,3,7,8,9-HxCDF	{0.2}	x	0.1	=	0.02
1,2,3,4,6,7,8-HpCDF	0.42	x	0.01	=	0.0042
1,2,3,4,7,8,9-HpCDF	{0.3}	x	0.01	=	0.003
1,2,3,4,6,7,8,9-OCDF	{0.5}	x	0.001	=	0.0005
TOTAL PCDF					0.12

Total EPA TEFs, 1989a: 0.6 pg/g

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

InitialDate...

Data Review By:

CEM 7/26/02

Calculated Noise Height: 0.06

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07/26/2002

Listing of T023768B.dbf
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	0.16	0.09	0.07
	DC SN 24:21	0.68	1.01		0.912
	DC SN 26:00	0.67	0.85		0.974
	DC SN 27:28 RO	1.29	0.48		1.029
	DC SN 27:54 RO	0.30	1.14		1.045
	DC WH 28:49 RO	7.75	0.35		1.079
304-306		0 Peaks	0.00		

13C12-TCDF		0.65-0.89			0.944-1.131
316-318	DC NL	Height	0.15	0.06	0.09
	25:41	0.76	8.40	3.63	4.77 0.962
	26:00	0.77	2.35	1.02	1.33 0.974
	26:18	0.82	8.20	3.69	4.51 0.985
	26:42	0.75	964.02	413.25	550.77 1.000 13C12-2378-TCDF ISO
		Height	232.08	99.14	132.94
	27:11	0.76	4.30	1.86	2.44 1.018
316-318		5 Peaks	987.27		

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

TCDD		0.65-0.89			0.905-1.042
320-322	DC NL	Height	0.11	0.06	0.05
	DC SN 24:50 RO	0.01	4.80		0.906
	DC SN 25:54 RO	2.36	0.37		0.945
	DC SN 26:42 RO	1.63	1.00		0.974
	DC SN 27:12 RO	0.06	0.17		0.993
	DC SN 27:22 RO	0.56	0.53		0.999 2378-TCDD AN
	DC SN 28:19 RO	2.00	0.27		1.033
	DC SN 28:31	0.77	0.23		1.041
320-322		0 Peaks	0.00		

37C1-TCDD					0.927-1.073
328	DC NL	Height	0.07	0.07	
	DC SN 25:28		0.08		0.929
	DC SN 25:36		0.04		0.934
	DC SN 25:42		0.06		0.938
	26:03		0.88	0.88	0.951
	DC SN 26:12		0.08		0.956
	DC SN 26:15		0.05		0.958
	DC SN 26:18		0.13		0.960
	DC SN 26:29		0.09		0.967
	DC SN 26:35		0.12		0.970
	DC SN 26:43		0.44		0.975
	DC SN 26:51		0.10		0.980
	DC SN 26:56		0.07		0.983
	DC SN 27:07		0.09		0.990

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	27:11		0.09			0.992		
			27:24		66.89	66.89		1.000	37C1-TCDD	CLS
			27:46		2.10	2.10		1.013		
	DC	SN	28:01		0.14			1.023		
	DC	SN	28:11		0.33			1.029		
	DC	SN	28:26		0.45			1.038		
	DC	SN	28:35		0.09			1.043		
	DC	SN	28:41		0.26			1.047		
	DC	SN	28:52		0.35			1.054		
328			3 Peaks		69.87					

				0.65-0.89				0.920-1.066		
13C12-TCDD				Height	0.28	0.19		0.09		
332-334	DC	NL		27:12	0.80	870.80	386.20	484.60	0.993	13C12-1234-TCDD RS1
				27:24	0.79	689.55	303.67	385.88	1.000	13C12-2378-TCDD IS1
				Height	176.14	77.34		98.80		
				27:53	1.08	0.83	0.43	0.40	1.018	
332-334			3 Peaks		1,561.18					

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

				1.32-1.78				0.911-1.036		
PeCDF				Height	0.12	0.05		0.07		
340-342	DC	NL		28:30	1.32	0.44		0.912		
	D	SN		29:53	1.46	2.14		0.956		
	M			30:04	1.65	0.82	0.51	0.31	0.962	J
	D	SN		30:28	RO 0.92	1.21		0.997	12378-PeCDF	AN
	DC	SN		30:50	RO 0.94	0.31		0.987		
	DC	SN		31:35	RO 1.04	0.51		1.011		
	DC	SN		31:53	RO 1.27	0.34		1.020		
	DC	SN		32:03	1.32	0.65		1.026		
	DC	SN		32:12	RO 0.93	0.27		1.030		
340-342			1 Peak		0.82					

				1.32-1.78				0.807-1.127		
13C12-PeCDF				Height	0.12	0.05		0.07		
352-354	DC	NL		29:44	1.39	11.77	6.84	4.93	0.951	
				30:11	RO 1.84	7.69	4.98	2.71	0.966	
				30:34	1.47	729.22	433.87	295.35	1.000	13C12-PeCDF 123 IS2
				Height	207.33	123.56		83.74		
				30:50	RO 1.81	11.79	7.60	4.19	0.987	
				31:15	1.47	735.79	438.41	297.38	1.000	13C12-PeCDF 234 IS3
				Height	214.43	128.42		86.01		
				31:34	RO 4.90	1.71	1.42	0.29	1.010	
				32:12	RO 1.17	8.60	4.63	3.97	1.030	
352-354			7 Peaks		1,506.57					

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

				1.32-1.78				0.940-1.021		
PeCDD				Height	0.13	0.07		0.06		
356-358	DC	NL		30:34	1.56	0.69		0.968		

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	31:15	RO	1.05	0.76			0.990		
DC	SN	31:26	RO	0.24	0.62			0.996		
DC	SN	31:28	RO	0.17	0.14			0.997		
DC	SN	31:32		1.67	0.16			0.999		
DC	SN	31:34	RO	2.00	0.21			1.000	12378-PeCDD	AN
356-358		0 Peaks			0.00					

13C12-PeCDD		1.32-1.78						0.735-1.052		
368-370	DC	NL		Height	0.13	0.07		0.06		
	DC	SN	30:30	RO	2.24	1.75		0.966		
			30:39		1.50	2.60	1.56	1.04	0.971	
	DC	SN	30:50		1.59	1.01		0.977		
	DC	SN	31:17		1.50	0.45		0.991		
			31:34		1.46	517.09	306.83	210.26	1.000	13C12-PeCDD 123 IS4
				Height	146.66	86.43		60.23		
	DC	SN	32:00	RO	1.94	1.47		1.014		
	DC	SN	32:24	RO	1.95	0.59		1.026		
368-370		2 Peaks			519.69					

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

HxCDF		1.05-1.43						0.929-1.007		
374-376	DC	NL		Height	0.16	0.09		0.07		
	DC	SN	33:36		1.12	0.91		0.950		
	MN		33:55	RO	1.00	0.46	0.23	0.23	0.999	
	DC	SN	34:06	RO	1.56	0.41		1.001	123678-HxCDF	AN
	DC	SN	34:12	RO	2.67	0.11		0.967		
	DC	SN	34:26	RO	0.90	0.19		0.974		
374-376		1 Peak			0.46					

13C12-HxCDF		0.43-0.59						0.879-1.105		
384-386	DC	NL		Height	0.39	0.19		0.20		
			33:00		0.53	2.44	0.84	1.60	0.934	
			33:07		0.50	5.31	1.78	3.53	0.937	
			33:58		0.53	703.90	242.49	461.41	1.000	13C12-HxCDF 478 IS5
				Height	221.88	75.85		146.03		
			34:03		0.50	758.87	252.80	506.07	1.000	13C12-HxCDF 678 IS6
				Height	221.42	75.13		146.29		
			34:21	RO	0.35	3.35	0.86	2.49	0.972	
			34:33		0.51	723.40	244.90	478.50	1.000	13C12-HxCDF 234 IS7
				Height	217.21	73.45		143.76		
	DC	SN	34:56	RO	0.67	0.45		0.988		
	DC	SN	35:02		0.52	0.64		0.991		
	DC	SN	35:06	RO	0.16	1.02		0.993		
			35:21		0.52	576.13	197.28	378.85	1.000	13C12-HxCDF 789 IS8
				Height	158.61	55.42		103.19		
			35:39	RO	0.86	2.06	0.95	1.11	1.008	
384-386		8 Peaks			2,775.46					

----- Above: HxCDF / HxCDD 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.

HxCDD		1.05-1.43			0.959-1.013		
390-392	DC NL	Height	0.17	0.07	0.10		
		33:30	1.13	4.37	2.32	2.05	0.964 J
	DC SN	33:57 RO	0.67	0.58			0.977
	DC SN	34:04 RO	2.72	0.67			0.980
		34:08 RO	1.01	1.35	0.68	0.67	0.982
	DC SN	34:44 RO	1.56	0.69		1.002	123478-HxCDD AN
		35:05	1.28	1.23	0.69	0.54	1.010 123789-HxCDD AN J
	DC WH	35:21 RO	4.22	0.47			1.017
390-392		3 Peaks		6.95			

13C12-HxCDD		1.05-1.43			0.983-1.041		
402-404	DC NL	Height	0.17	0.09	0.08		
		34:09	1.24	2.04	1.13	0.91	0.985
		34:40	1.21	456.76	249.94	206.82	1.000 13C12-HxCDD 478 IS9
			Height	139.71	76.10	63.61	
		34:45	1.22	512.02	280.87	231.15	1.000 13C12-HxCDD 678 IS10
			Height	153.70	84.48	69.22	
		35:05	1.20	609.80	332.61	277.19	1.012 13C12-HxCDD 789 RS2
		35:25 RO	0.75	1.28	0.55	0.73	1.022
		35:29 RO	0.63	0.49	0.19	0.30	1.024
402-404		6 Peaks		1,582.39			

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

HpCDF		0.88-1.20			0.955-1.005		
408-410	DC NL	Height	0.11	0.06	0.05		
		37:02	1.11	1.31	0.69	0.62	1.000 1234678-HpCDF AN J
	DC SN	37:28 RO	1.70	0.73			0.970
	DC SN	38:35	1.04	0.53		0.999	1234789-HpCDF AN
408-410		1 Peak		1.31			

13C12-HpCDF		0.37-0.51			0.856-1.141		
418-420	DC NL	Height	0.18	0.09	0.09		
		37:02	0.45	459.39	141.92	317.47	1.000 13C12-HpCDF 678 IS11
			Height	116.71	35.65	81.06	
		38:37	0.44	329.06	101.01	228.05	1.000 13C12-HpCDF 789 IS12
			Height	71.46	21.78	49.68	
	DC SN	39:00 RO	0.21	1.45			1.010
418-420		--2 Peaks		788.45			

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

HpCDD		0.88-1.20			0.976-1.005		
424-426	DC NL	Height	0.13	0.06	0.07		
		37:20	0.92	11.62	5.58	6.04	0.980
	DC SN	37:33	1.00	0.16			0.986
		38:07	0.94	5.98	2.89	3.09	1.000 1234678-HpCDD AN J
	DC WH	38:26 RO	0.40	0.21			1.009
	DC WH	38:36 RO	5.91	0.76			1.013
424-426		2 Peaks		17.60			

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.

Compound	QC	Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
13C12-HpCDD					0.88-1.20						0.868-1.078			
436-438	DC	NL			Height			0.22	0.13	0.09				
					37:20 RO	0.87		2.28	1.06	1.22	0.980			
					38:06	1.03		391.89	199.04	192.85	1.000	13C12-HpCDD	678	IS13
					Height			94.45	48.10	46.35				
436-438					2 Peaks			394.17						

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

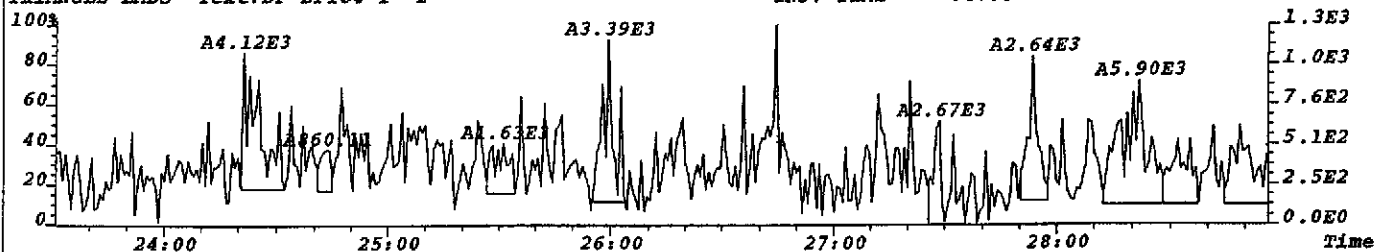
Compound	QC	Log	Omit	Why	..RT.	OK	Ratio	Total.Area/Ht	Area/Ht.Peak1	Area/Ht.Peak2	Rel.RT	Compound.Name..	ID..	Flags.
OCDF					0.76-1.02						0.952-1.048			
442-444	DC	NL			Height			0.14	0.07	0.07				
	DC	SN			42:56 RO	0.40		0.07			1.025			
	DC	SN			43:08	0.94		0.33			1.029			
	DC	SN			43:19 RO	0.50		0.21			1.034			
442-444					0 Peaks			0.00						
OCDD					0.76-1.02						0.952-1.048			
458-460	DC	NL			Height			0.10	0.05	0.05				
					41:54	0.85		66.37	30.58	35.79	1.000	OCDD		AN
	DC	SN			42:14 RO	0.22		0.22			1.008			
458-460					1 Peak			66.37						
13C12-OCDD					0.76-1.02						0.996-1.004			
470-472	DC	NL			Height			0.11	0.05	0.06				
					41:54	0.86		480.59	222.60	257.99	1.000	13C12-OCDD		IS14
					Height			96.33	45.08	51.25				
	DC	WH			42:25 RO	0.57		1.37			1.012			
470-472					1 Peak			480.59						

Column Description..... "Why" Code Description..... QC Log Desc.....

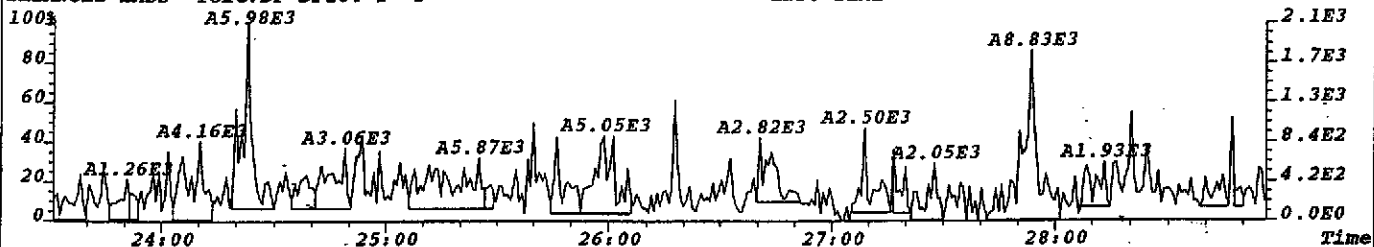
M_Z -Nominal Ion Mass(es) WL-Below Retention Time Window A-Peak Added
 ..RT. -Retention Time (mm:ss) WH-Above Retention Time Window K-Peak Kept
 Rat.I -Ratio of M/M+2 Ions SN-Below Signal to Noise Level D-Peak Deleted
 OK -RO=Ratio Outside Limits <M-Below Method Detection Limit T-Time Changed
 Rel.RT-Relative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

*** End of Report ***

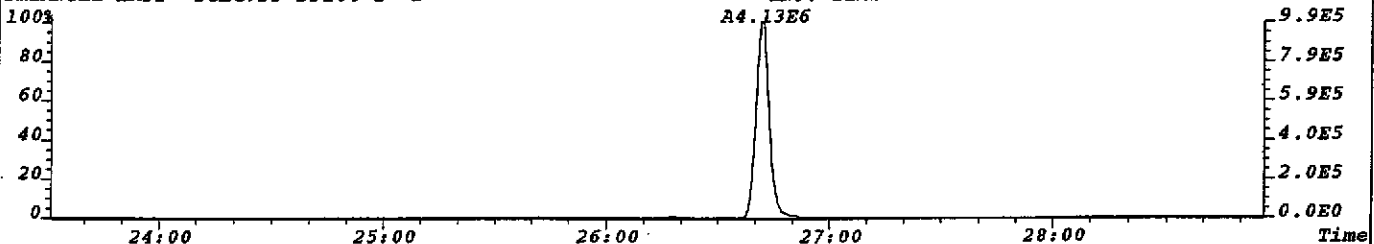
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:107
303.9016 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,428.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



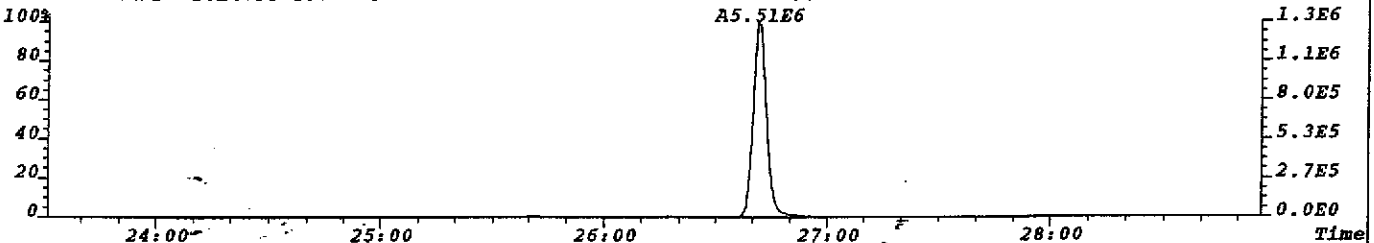
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:85
305.8987 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,340.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



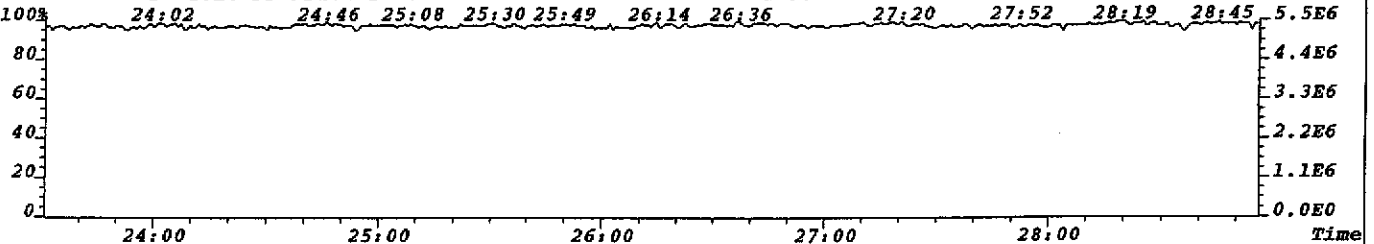
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:74
315.9419 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,296.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



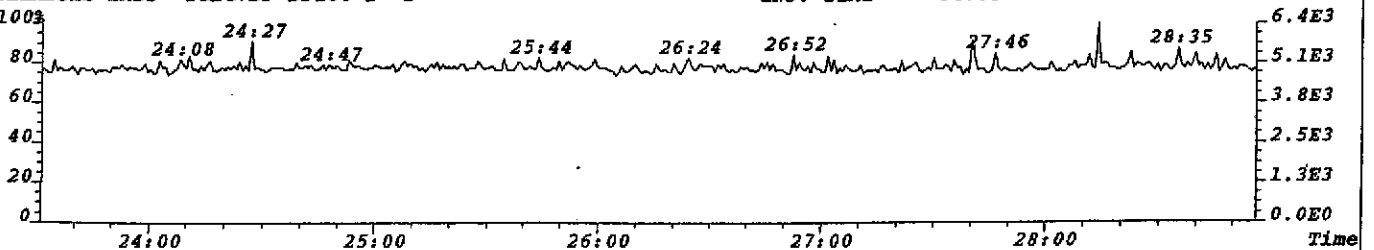
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:114
317.9389 F:2 BSUB(256,30,-3.0) PKD(9,5,5,0.05%,456.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



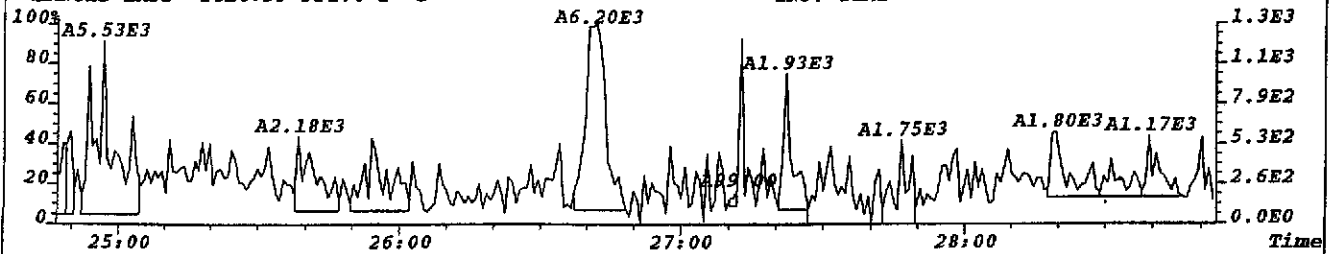
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



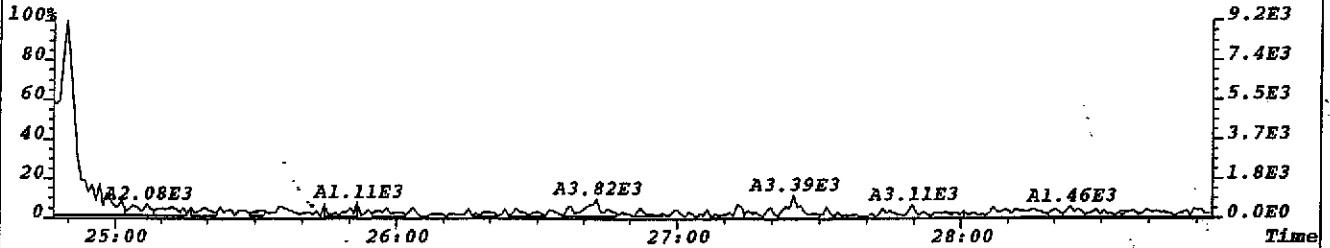
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T
375.8364 F:2 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



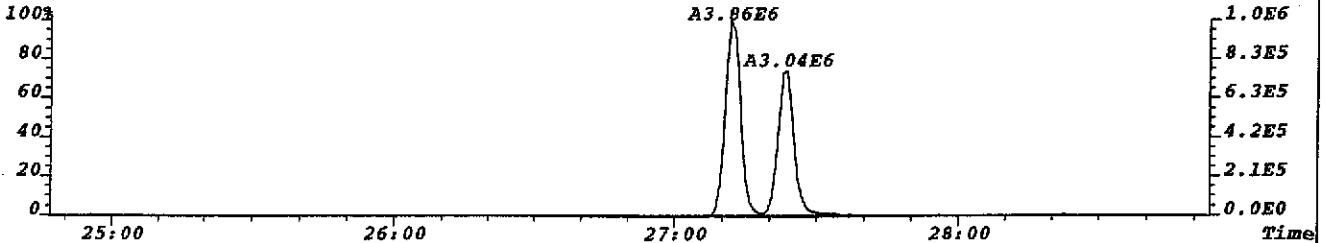
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:78
319.8965 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,312.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



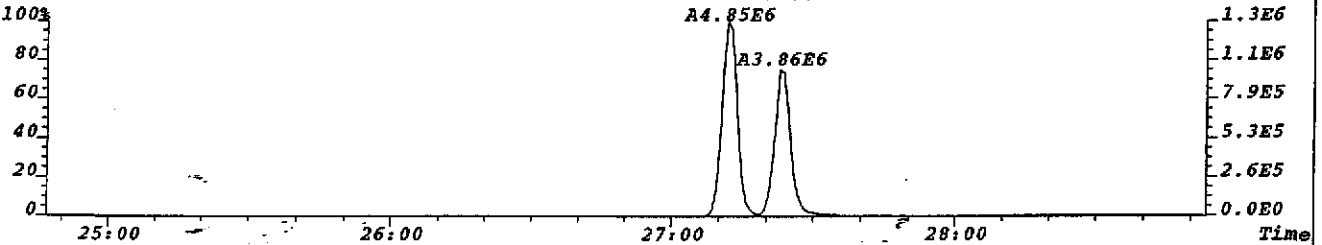
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:67
321.8936 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,268.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



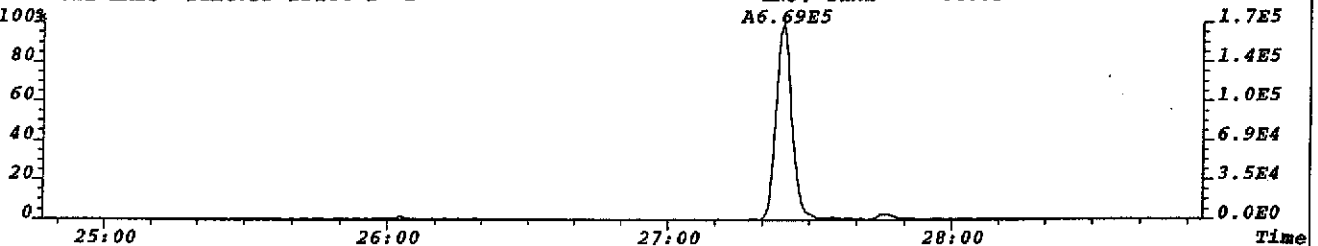
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:239
331.9368 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,956.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



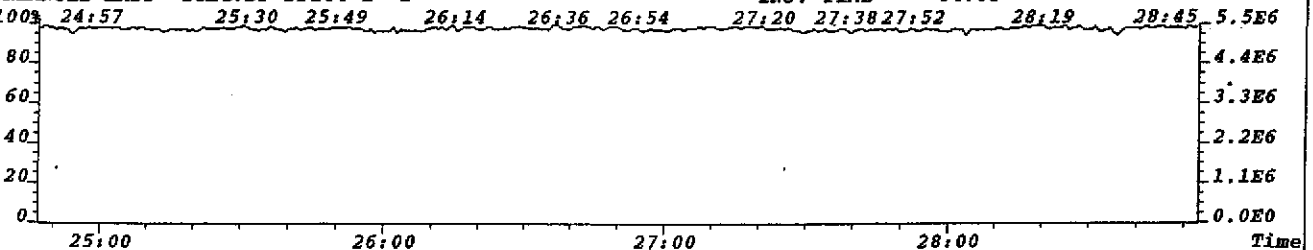
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:113
333.9338 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,452.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



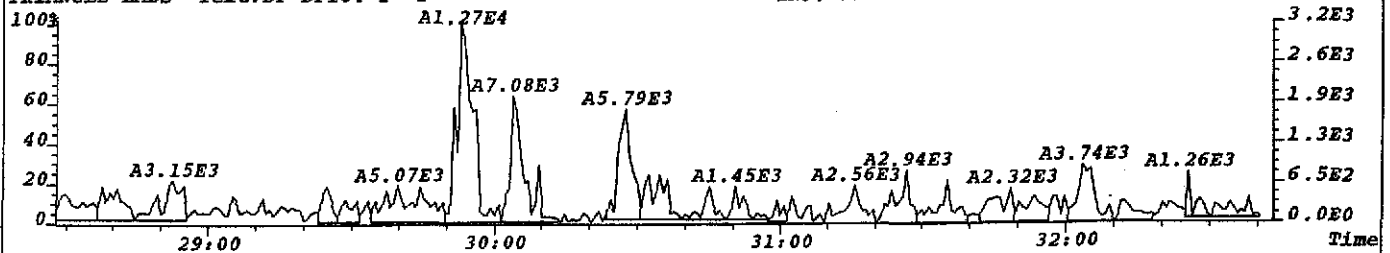
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:84
327.8847 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,336.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



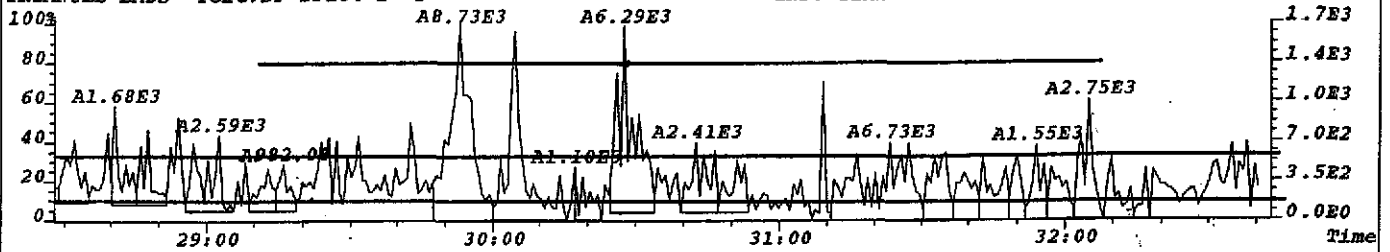
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



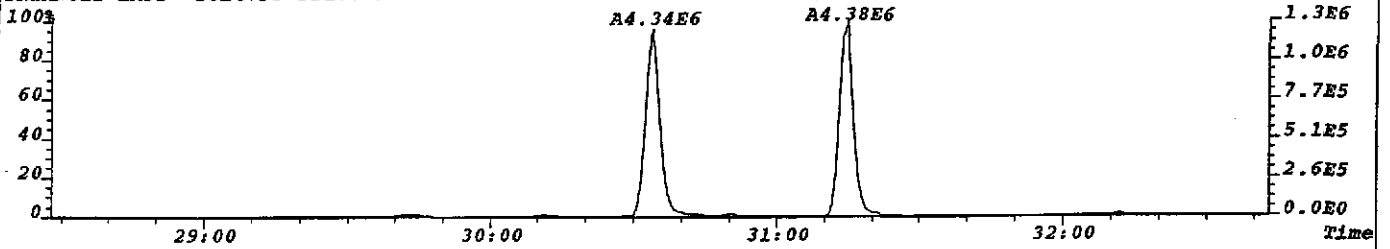
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:68
339.8597 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,272.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



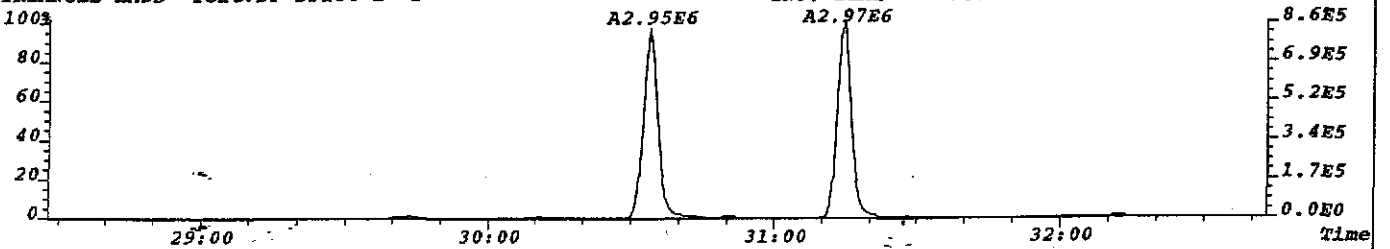
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:91
341.8567 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,364.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



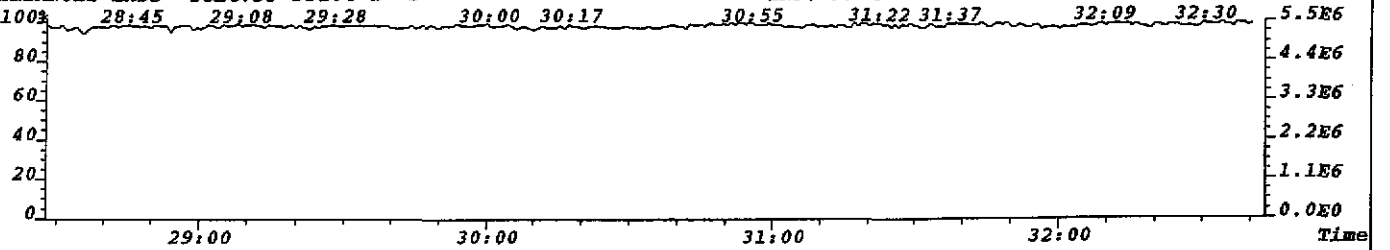
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:60
351.9000 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,240.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



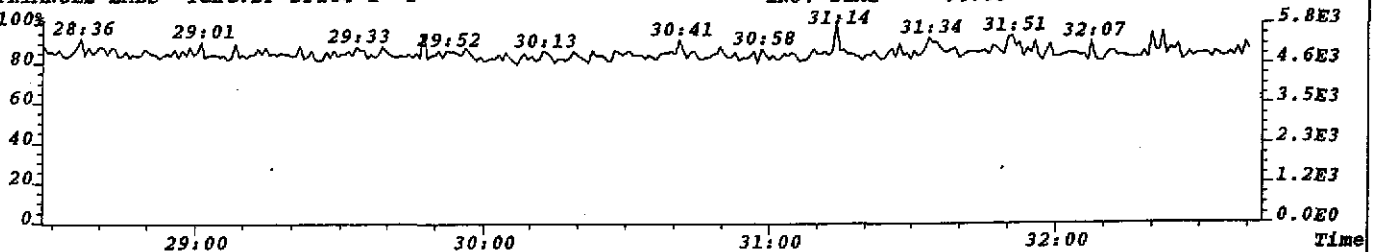
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:86
353.8970 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,344.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



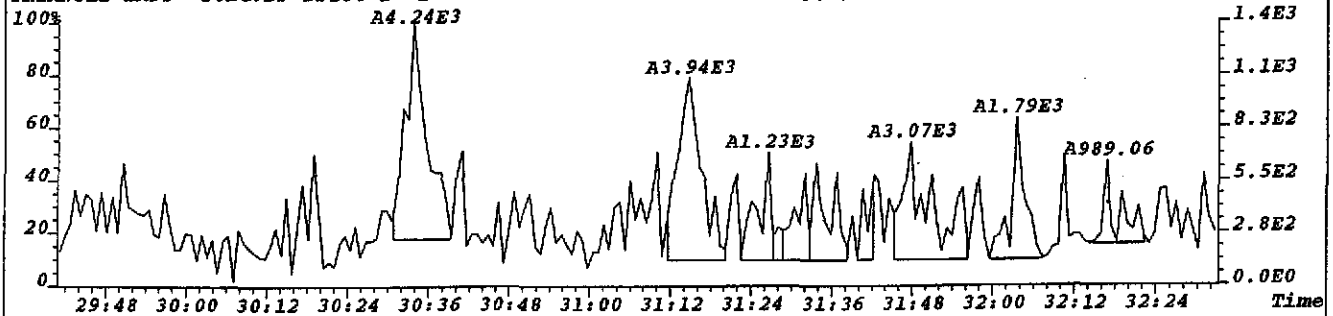
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



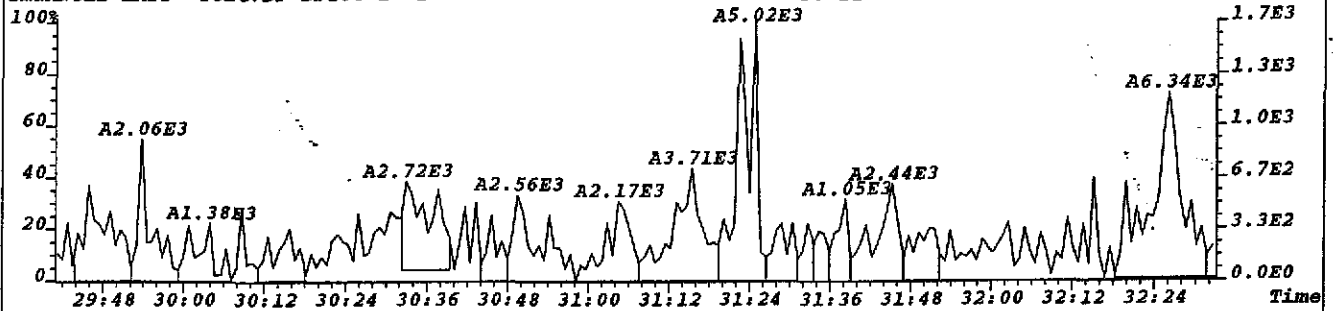
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T
409.7974 F:2 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



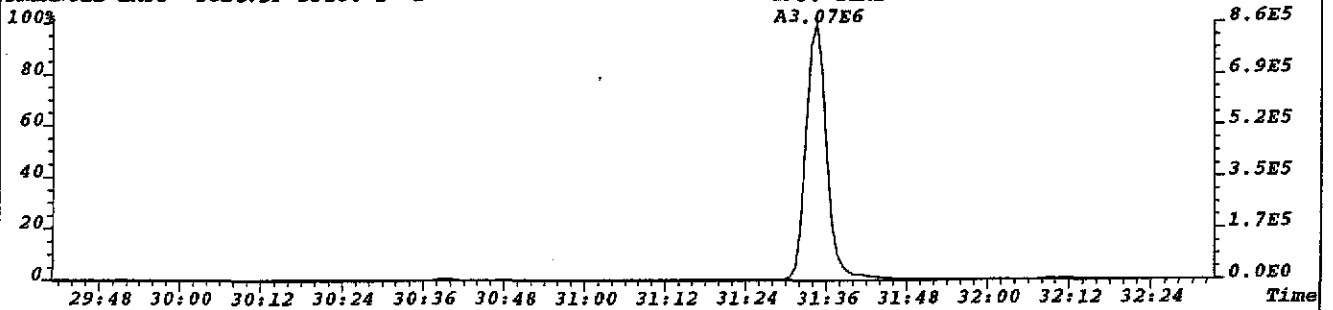
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:92
355.8546 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,368.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



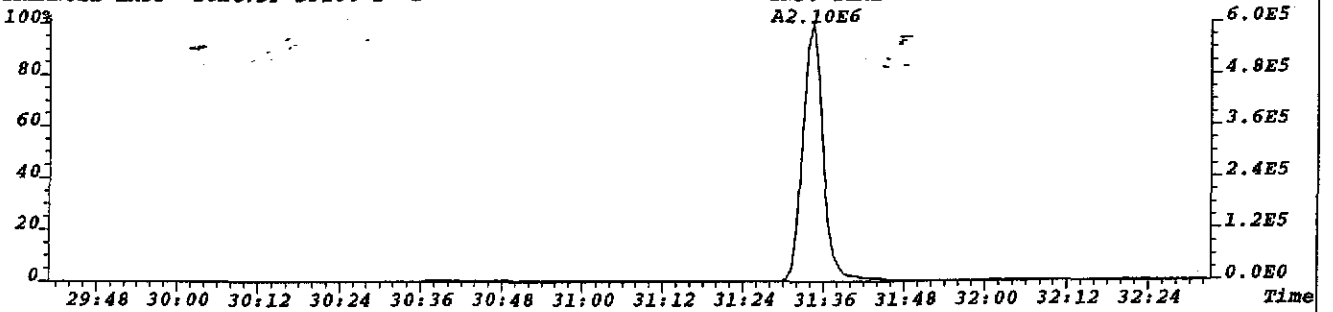
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:76
357.8516 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,304.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



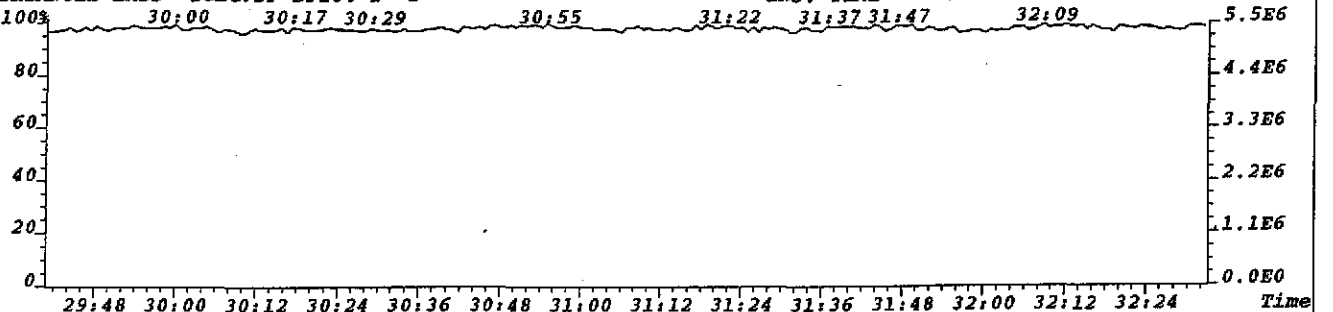
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:93
367.8949 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,372.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



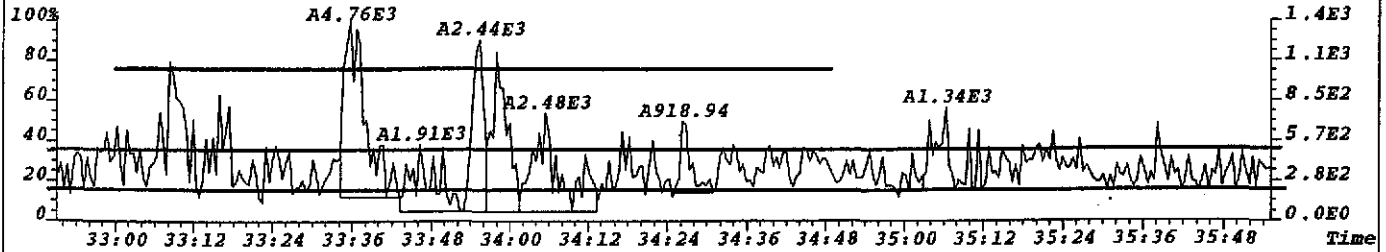
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:79
369.8919 F:2 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



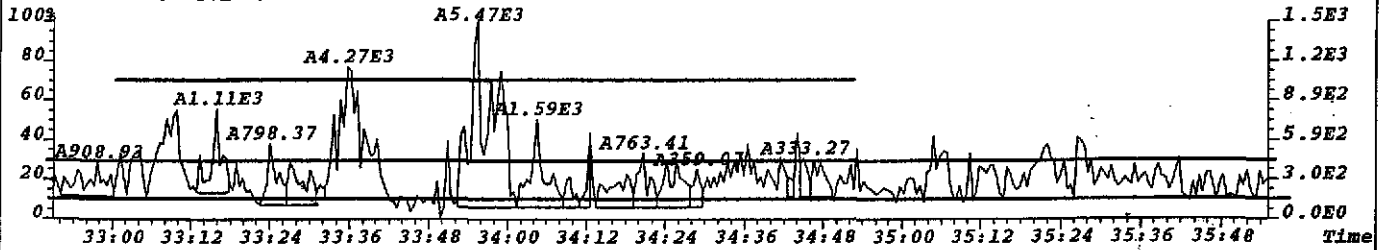
File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T
330.9792 F:2 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



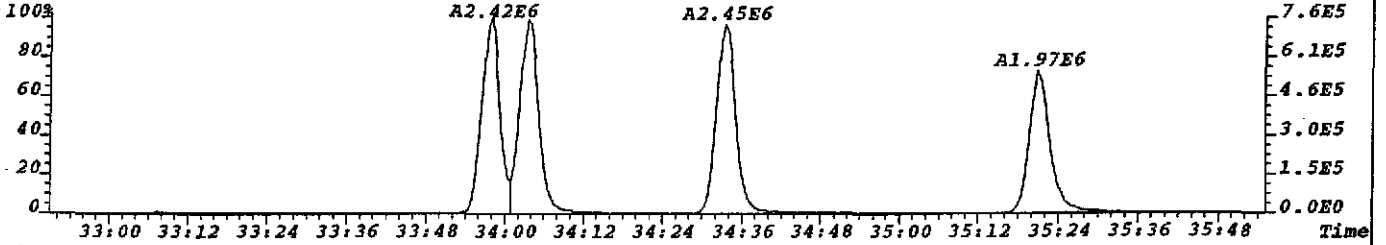
File:T023768 #1-386 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:113
373.8208 F:3 BSub(256,30,-3.0) PKD(7,5,3,0.05%,452.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



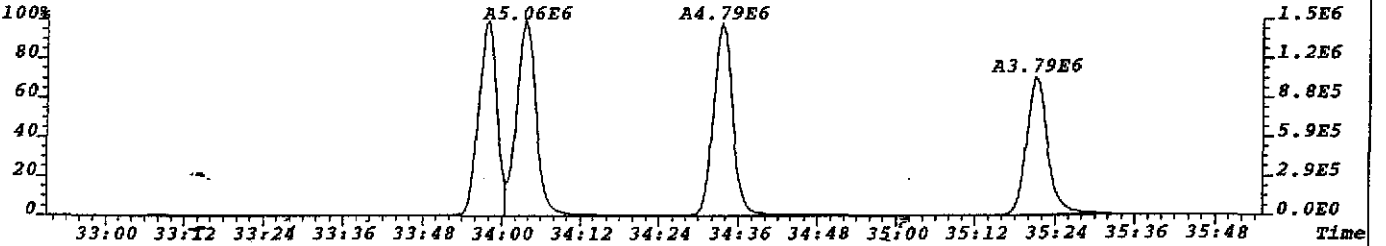
File:T023768 #1-386 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:87
375.8178 F:3 BSub(256,30,-3.0) PKD(7,5,3,0.05%,348.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



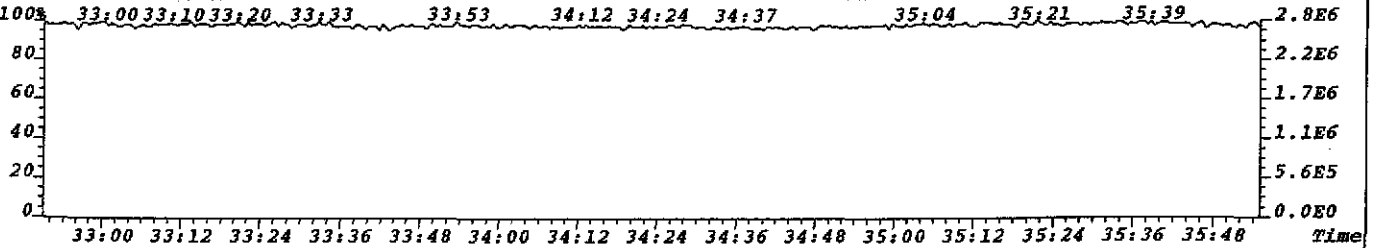
File:T023768 #1-386 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:242
383.8639 F:3 BSub(256,30,-3.0) PKD(7,5,3,0.05%,968.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



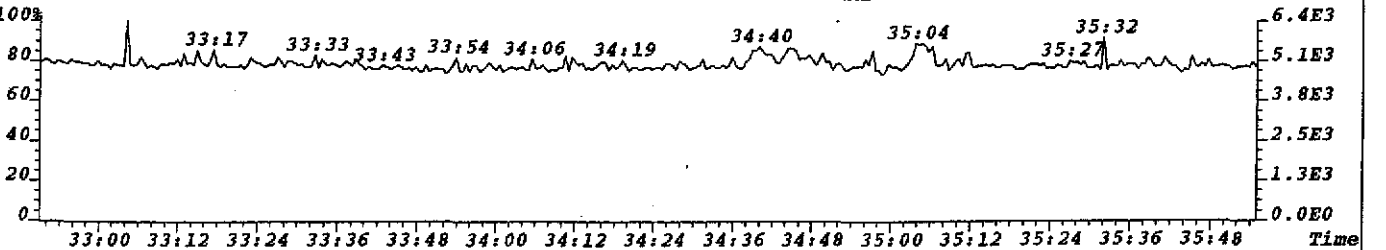
File:T023768 #1-386 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:247
385.8610 F:3 BSub(256,30,-3.0) PKD(7,5,3,0.05%,988.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



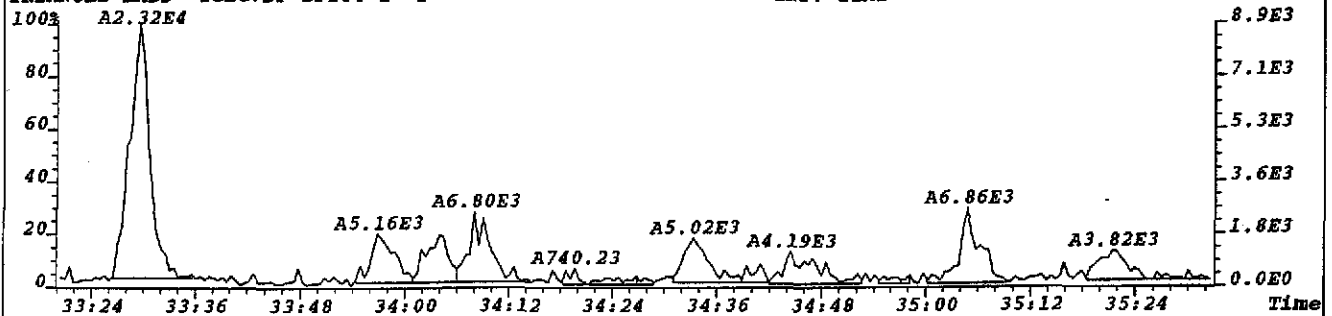
File:T023768 #1-386 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



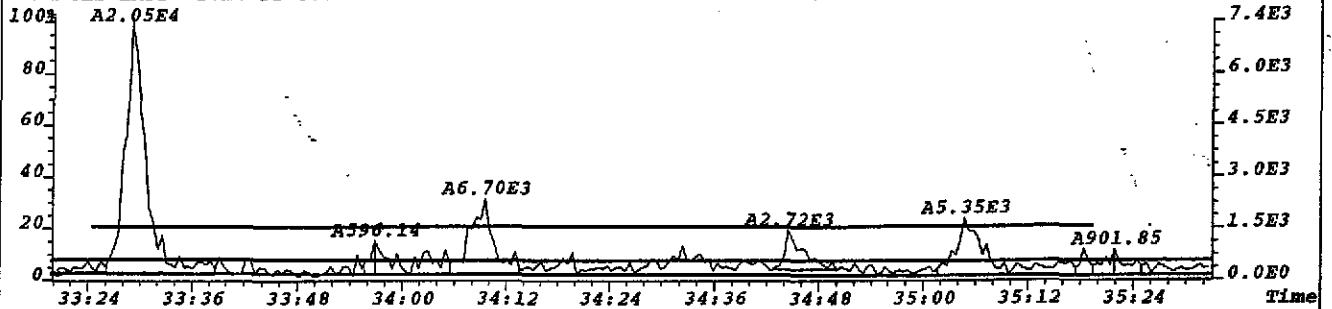
File:T023768 #1-386 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T
445.7555 F:3 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



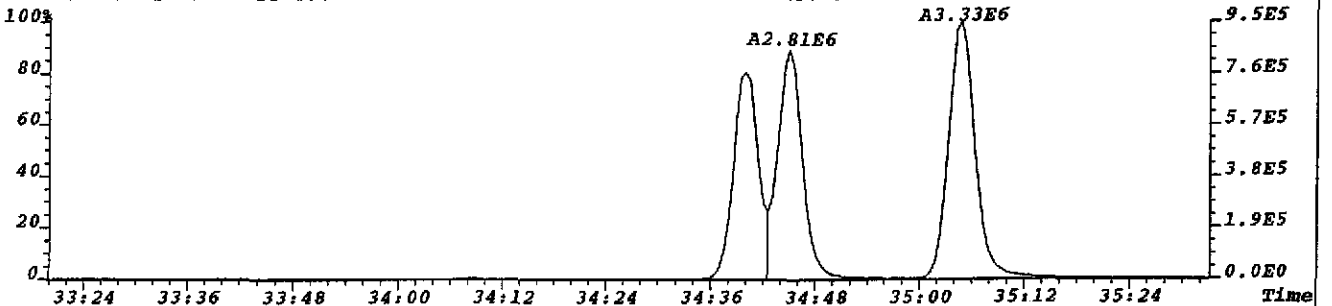
File:T023768 #1-386 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:92
389.8156 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,368.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



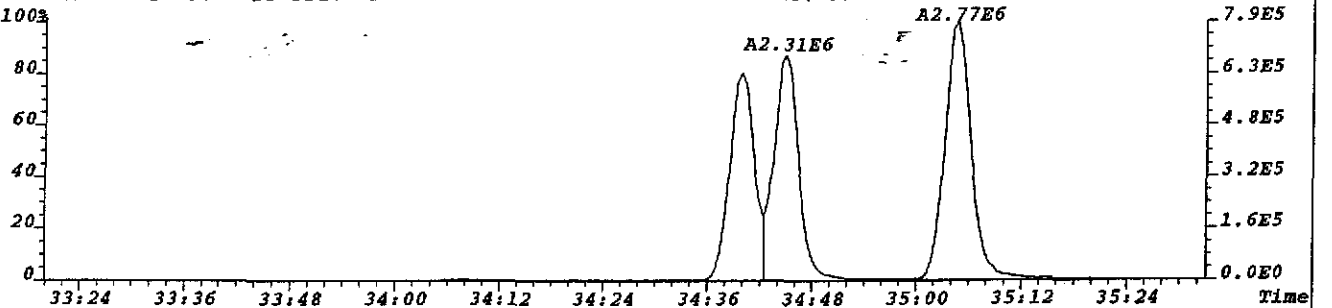
File:T023768 #1-386 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:124
391.8127 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,496.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



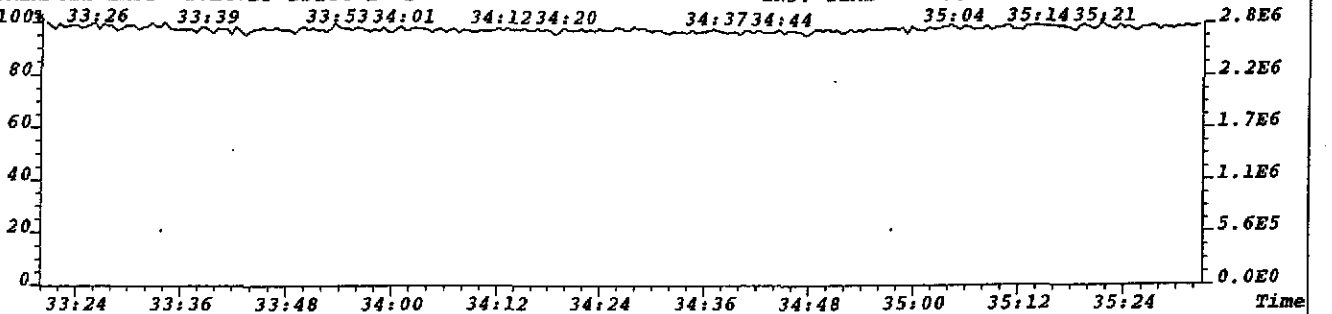
File:T023768 #1-386 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:111
401.8558 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,444.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



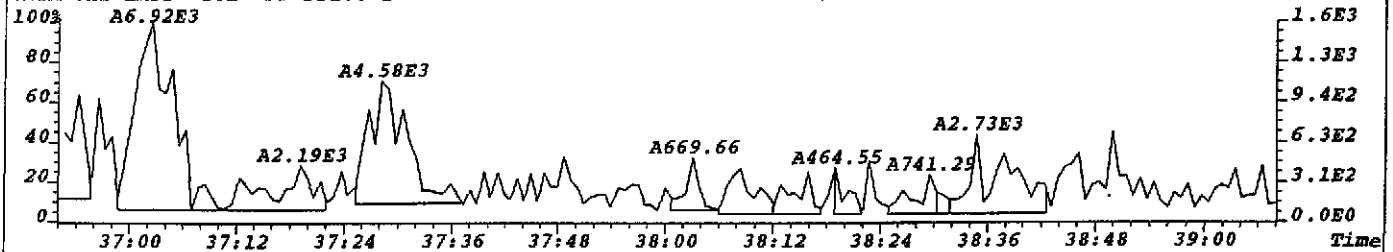
File:T023768 #1-386 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:99
403.8529 F:3 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,396.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



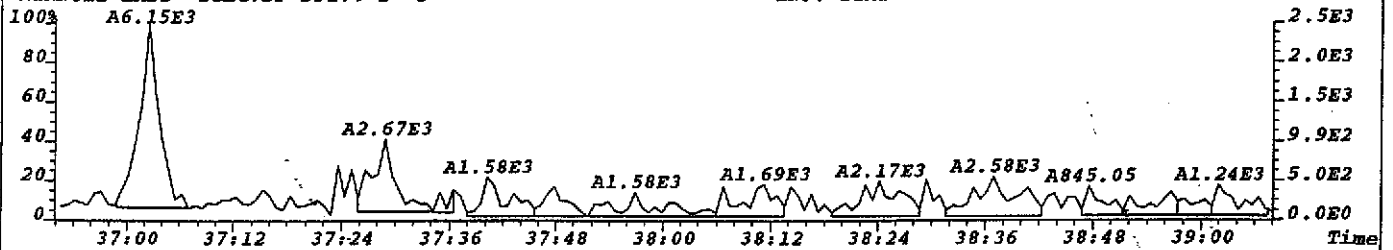
File:T023768 #1-386 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T
392.9760 F:3 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



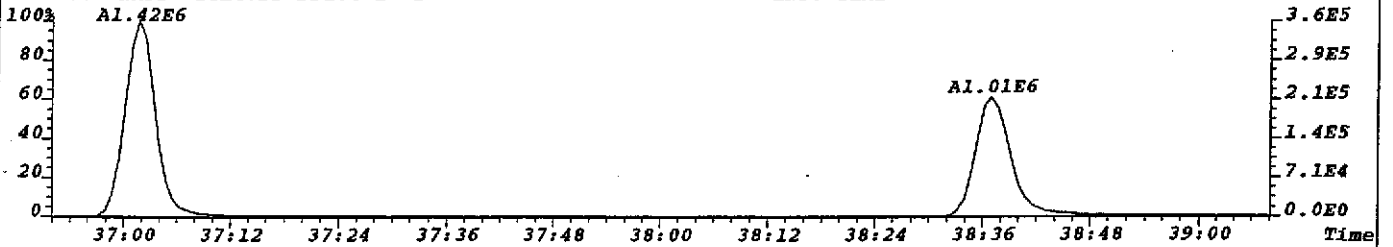
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:74
407.7818 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,296.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



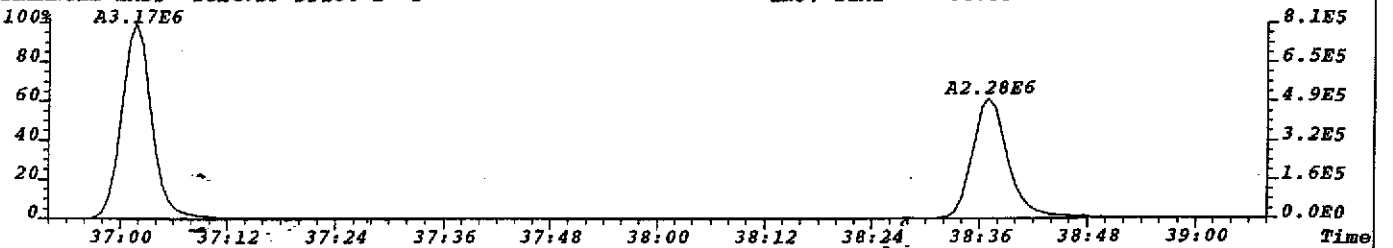
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:65
409.7789 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,260.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



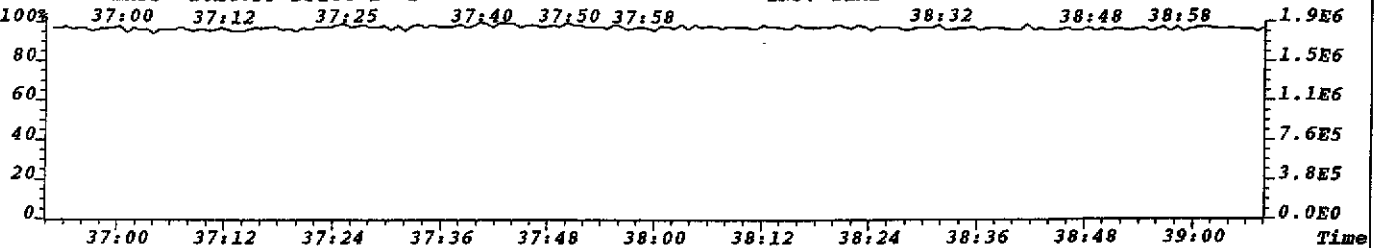
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:110
417.8253 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,440.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



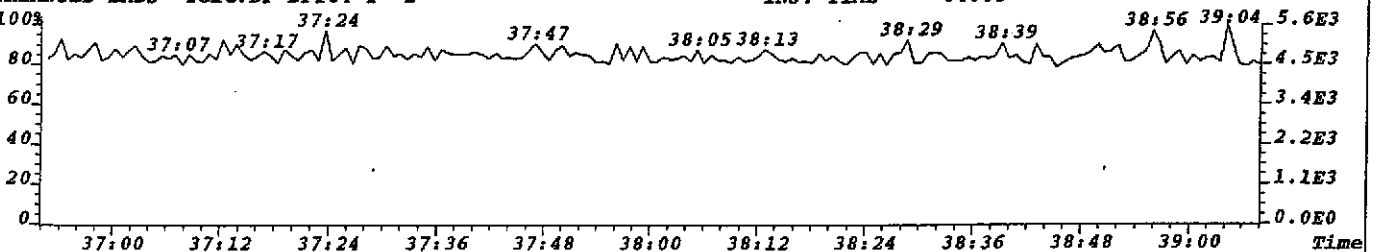
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:113
419.8220 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,452.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



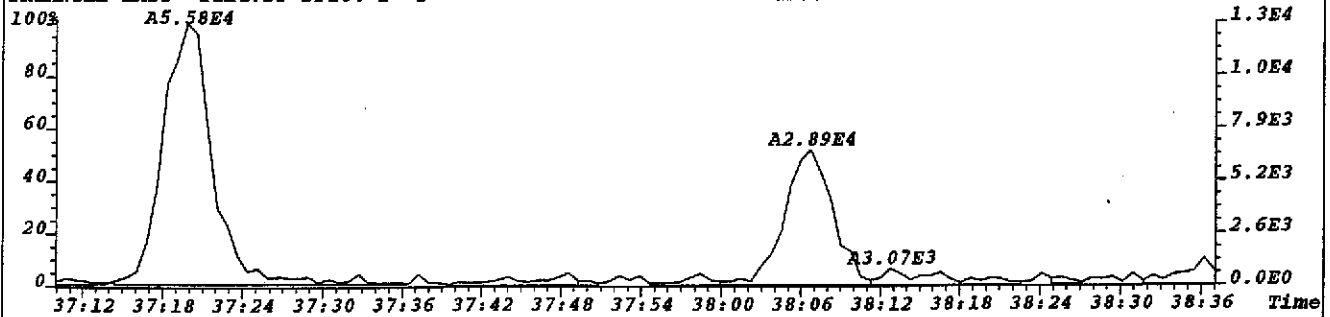
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



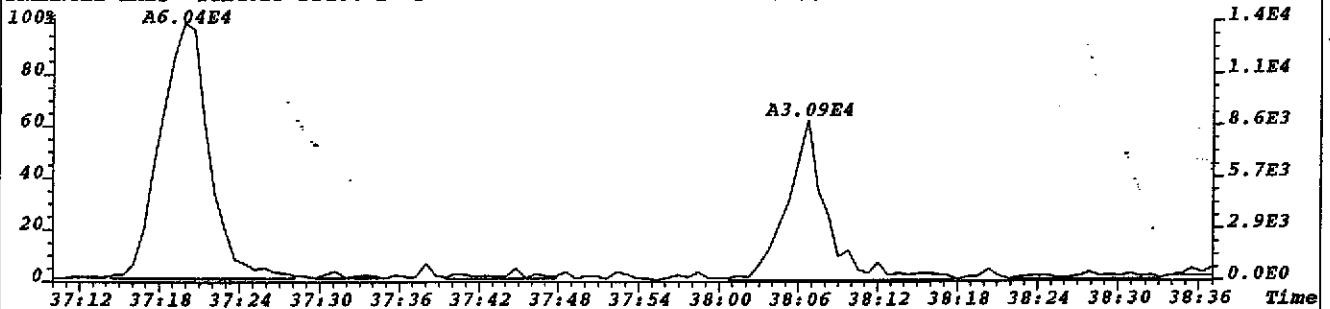
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T
479.7165 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



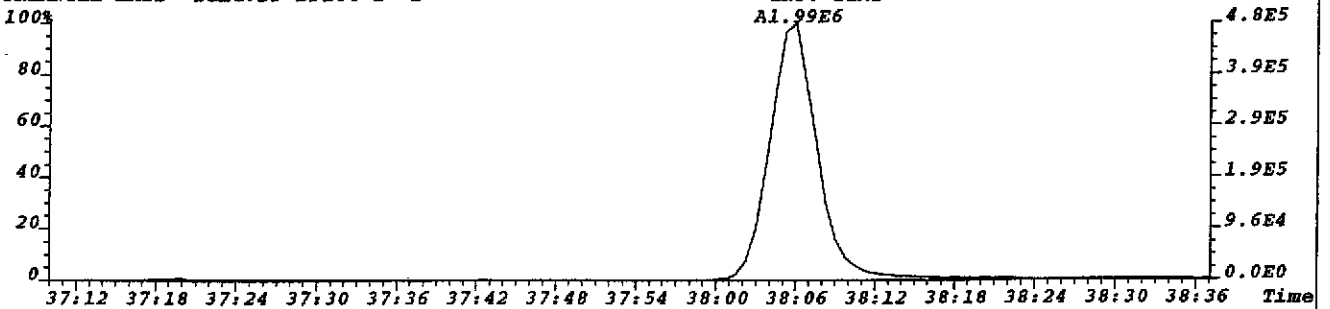
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:79
423.7766 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,316.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



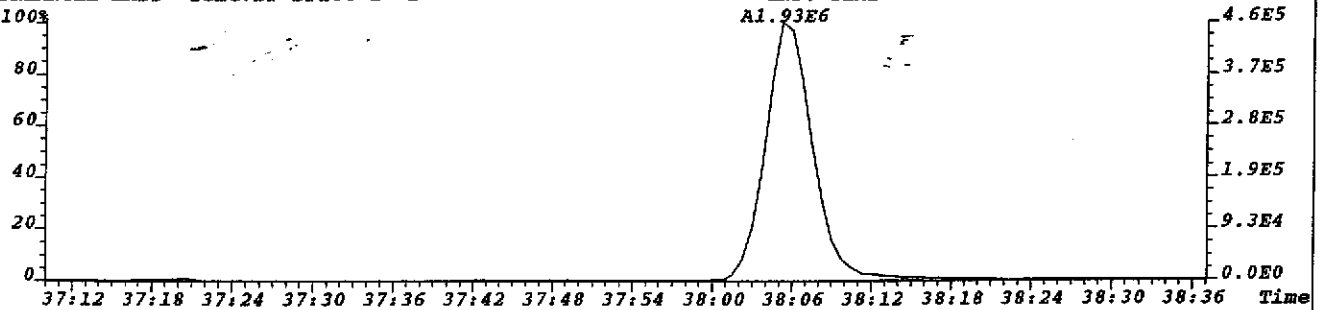
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:84
425.7737 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,336.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



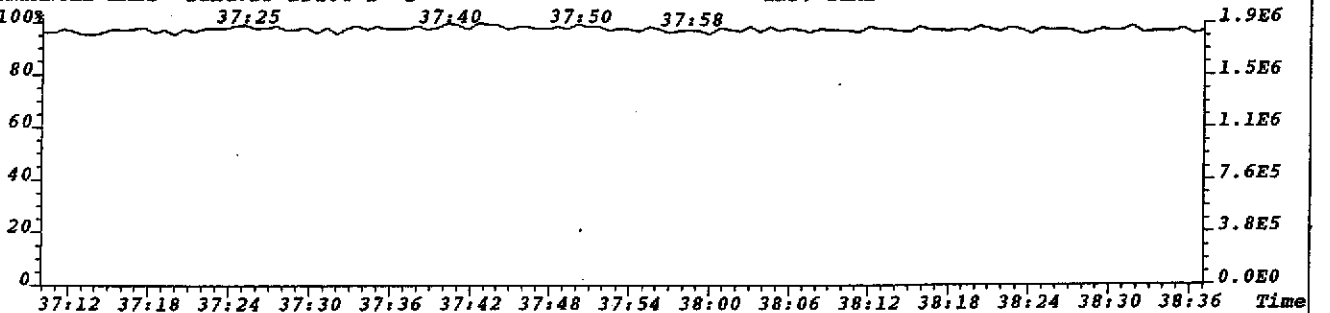
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:159
435.8169 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,636.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



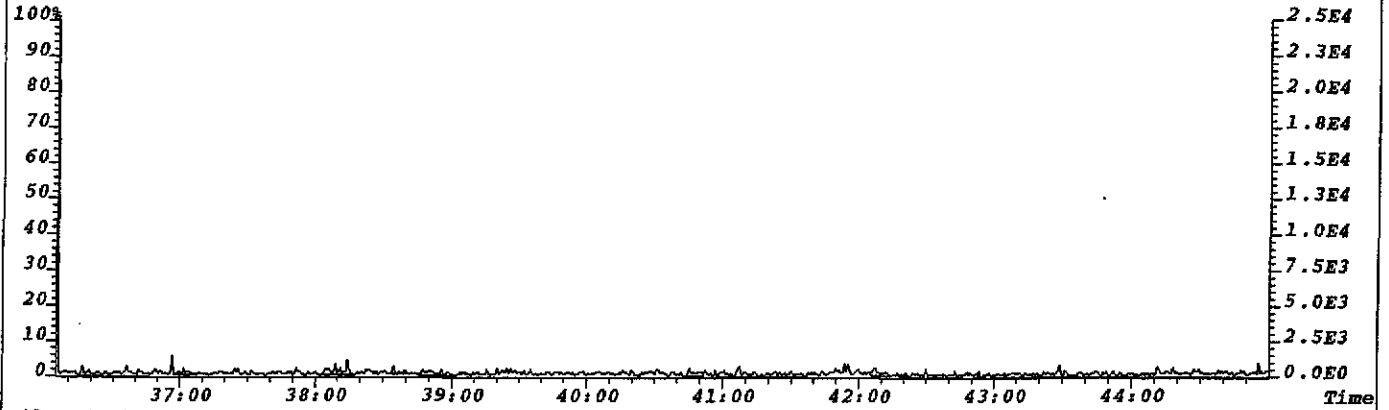
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:110
437.8140 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,440.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



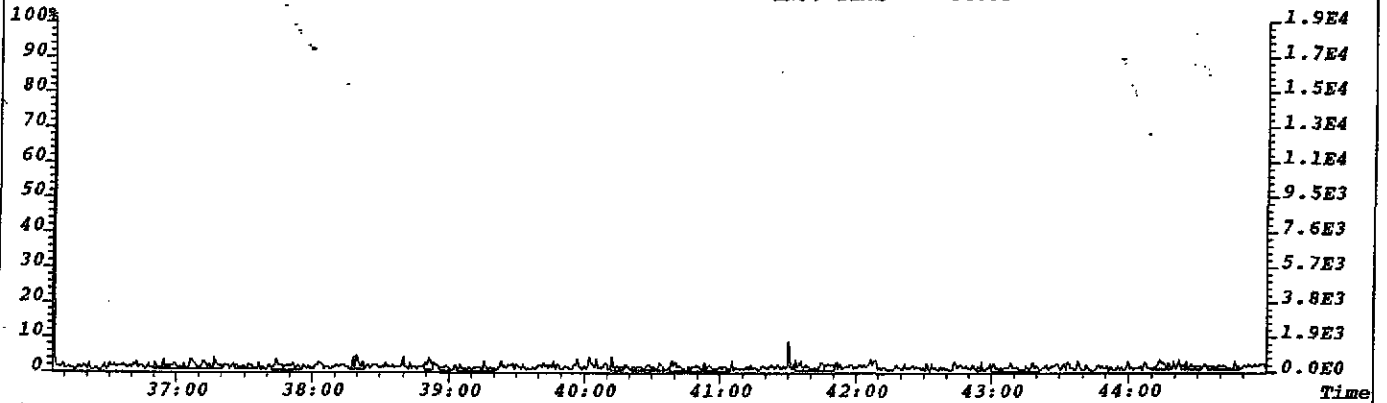
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



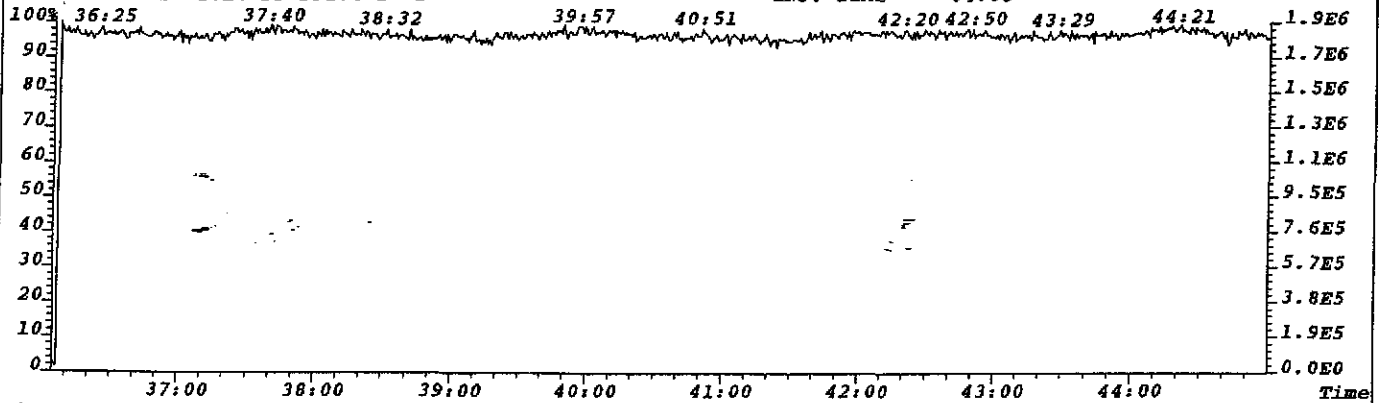
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:82
441.7428 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,328.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



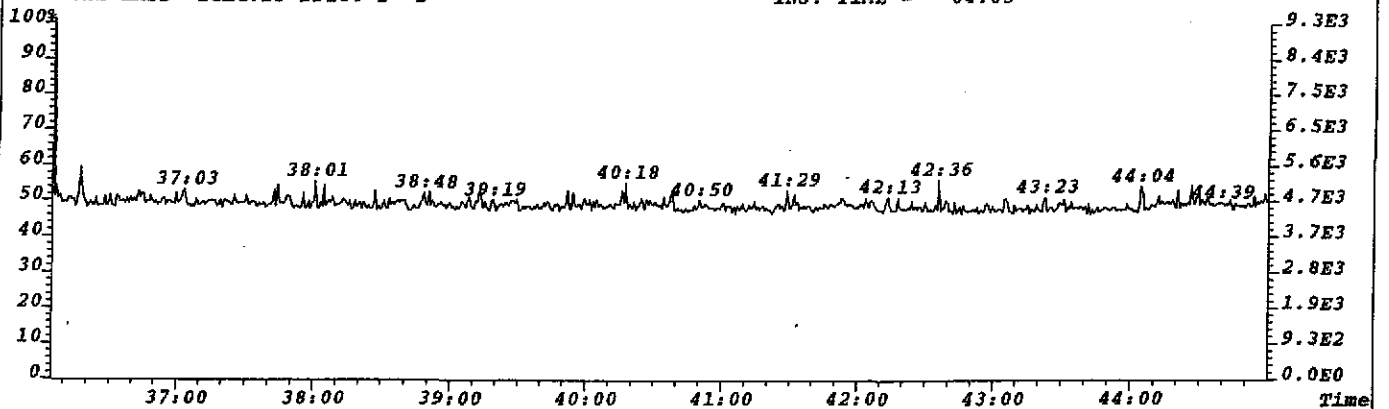
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:90
443.7399 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,360.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



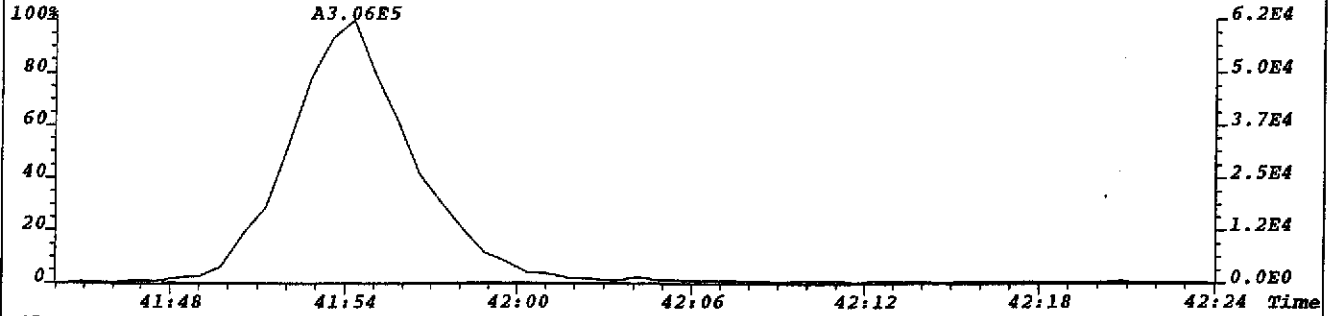
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



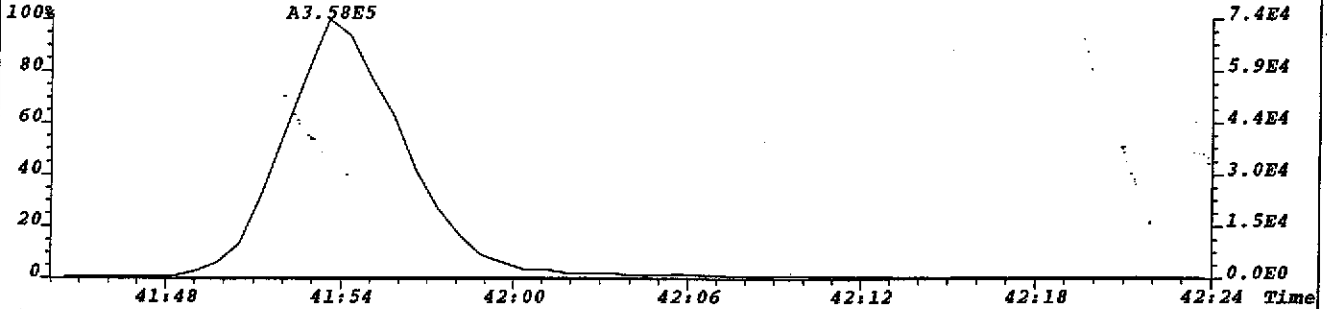
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T
513.6775 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



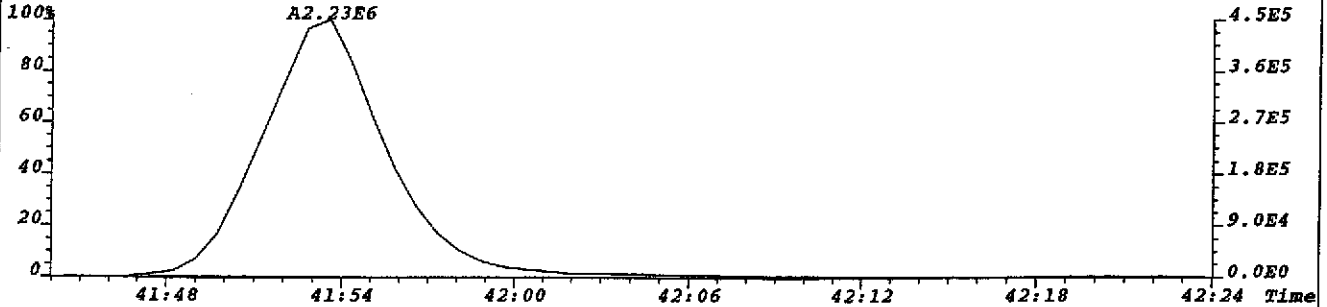
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:68
457.7377 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,272.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



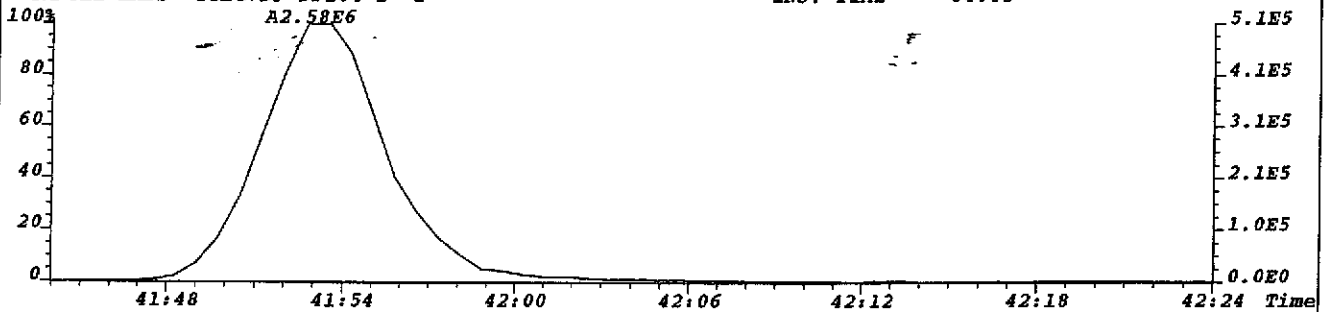
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:64
459.7348 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,256.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



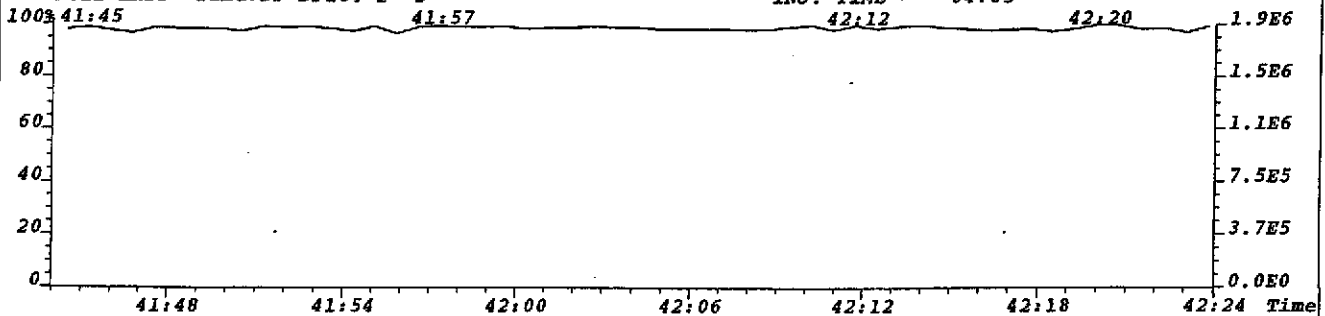
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:62
469.7779 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,248.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05

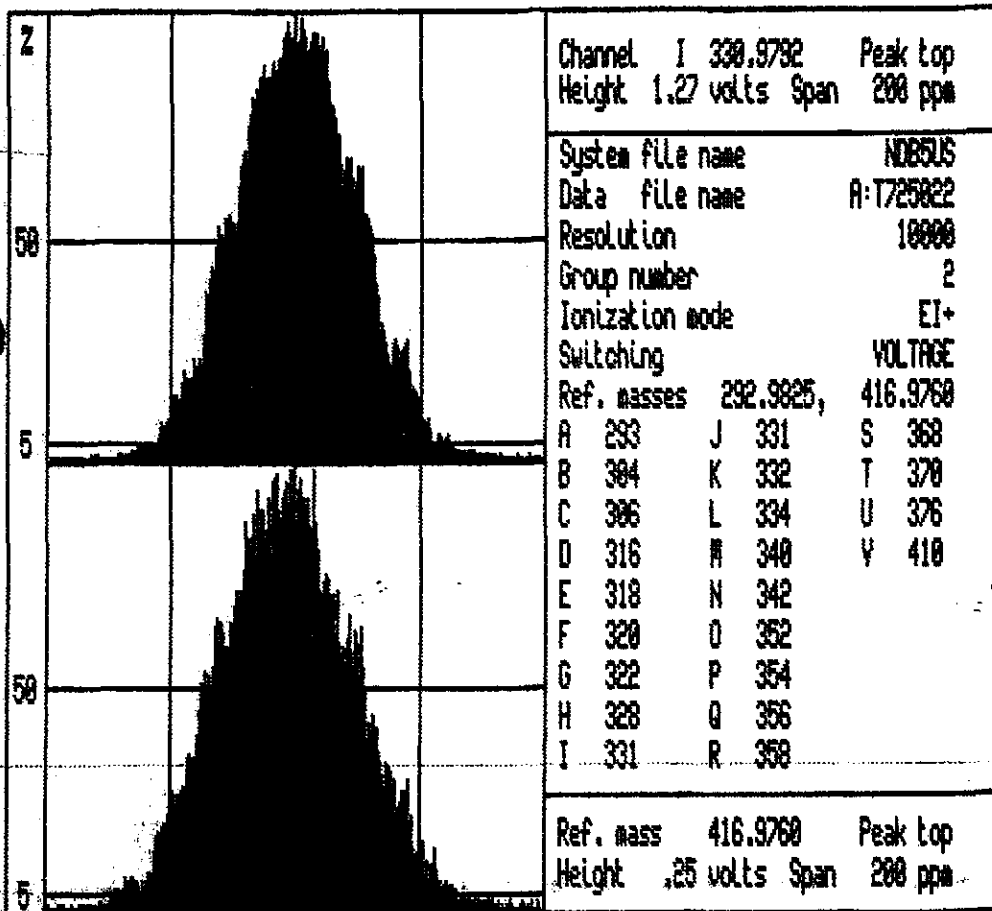


File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T Noise:70
471.7750 F:4 BSUB(256,30,-3.0) PKD(7,5,3,0.05%,280.0,1.00%,F,T) Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05



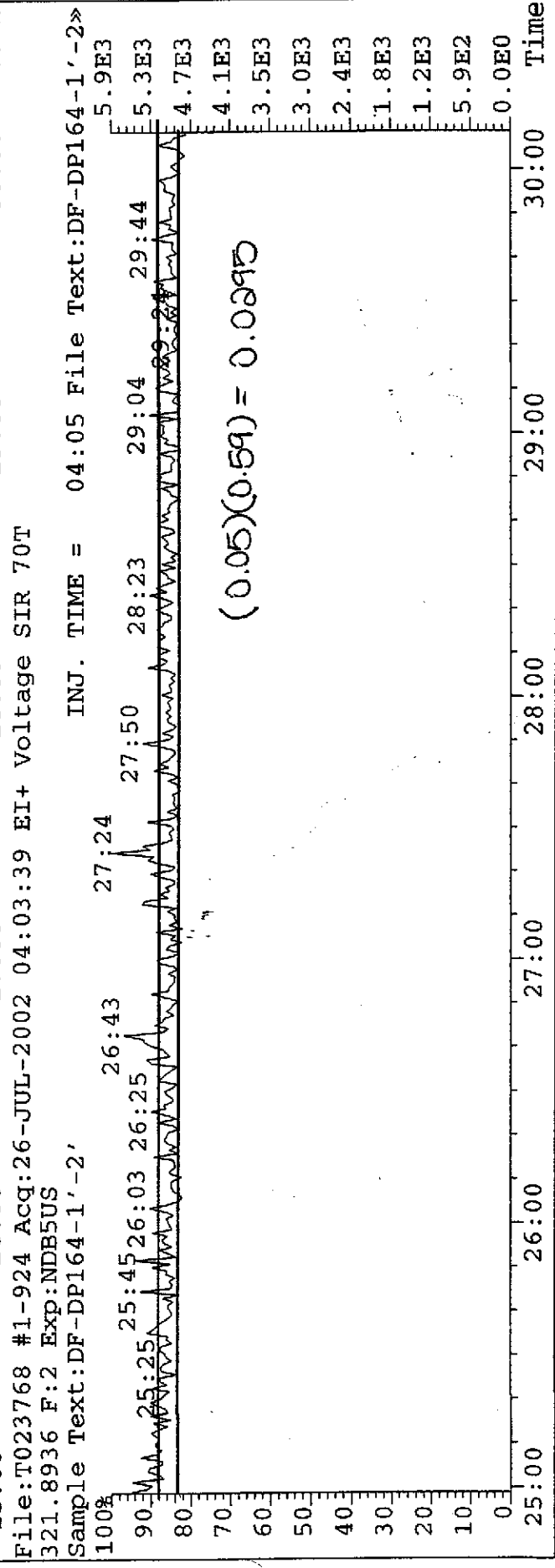
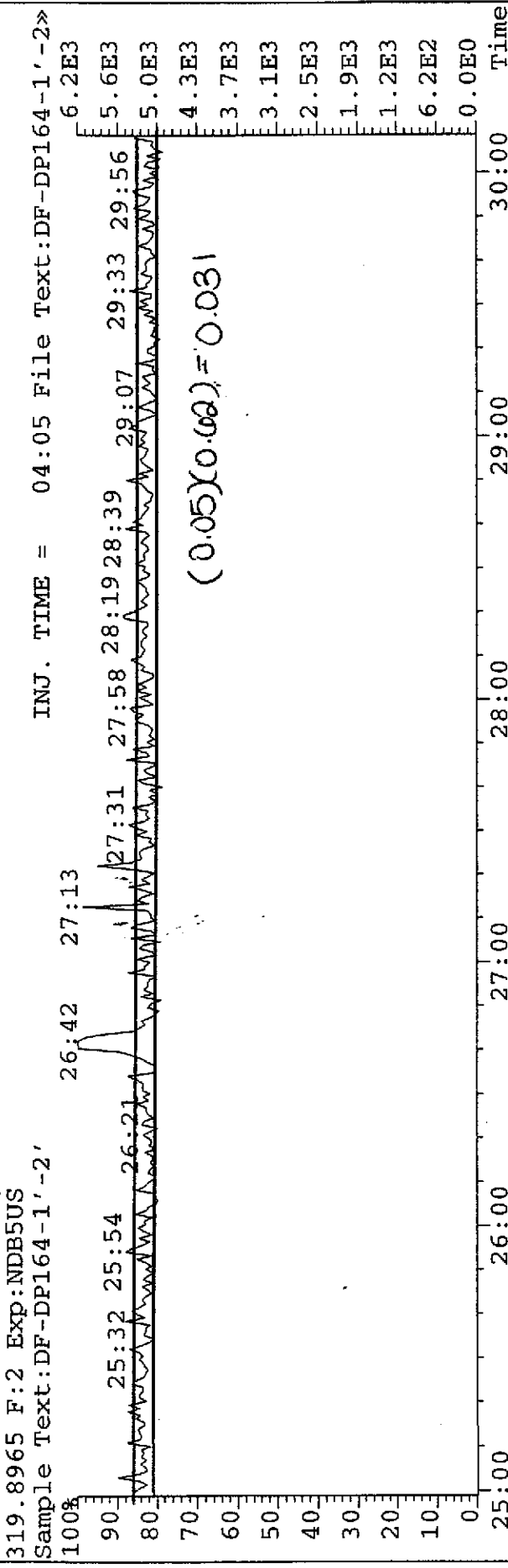
File:T023768 #1-708 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T
430.9729 F:4 Exp:NDB5US
TRIANGLE LABS Text:DF-DP164-1'-2' INJ. TIME = 04:05





GEN 7126102

N = 0.031 + 0.0295 = 0.0605
File: T023768 #1-924 Acq: 26-JUL-2002 04:03:39 EI+ Voltage SIR 70T



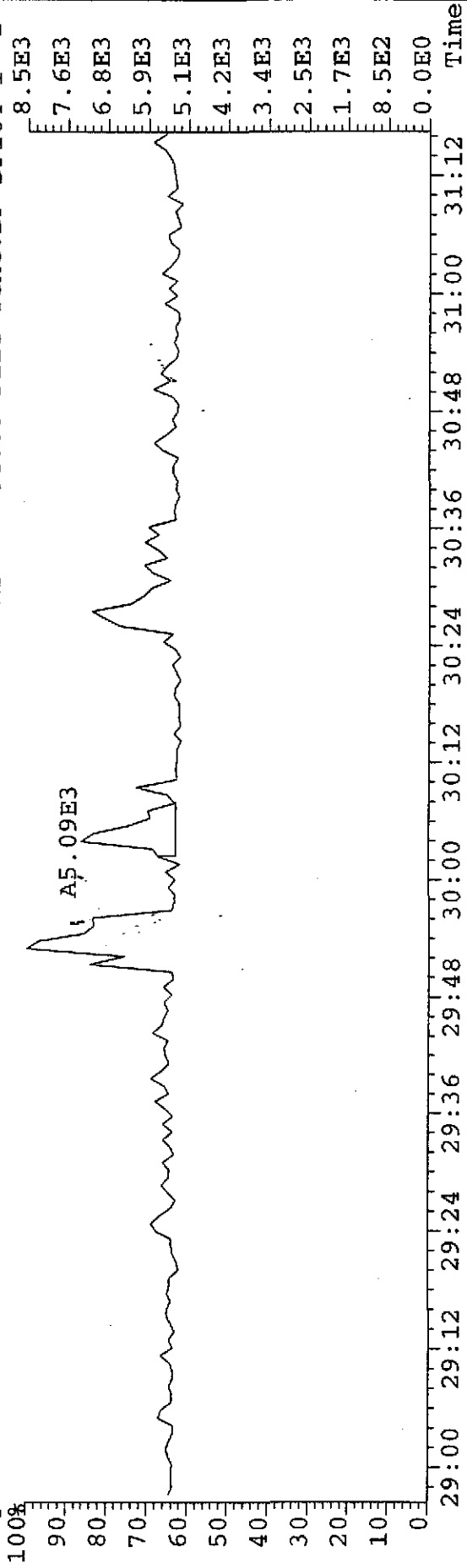
02M720002

File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T

339.8597 F:2 Exp:NDB5US

Sample Text:DF-DP164-1'-2'

INJ. TIME = 04:05 File Text:DF-DP164-1'-2>

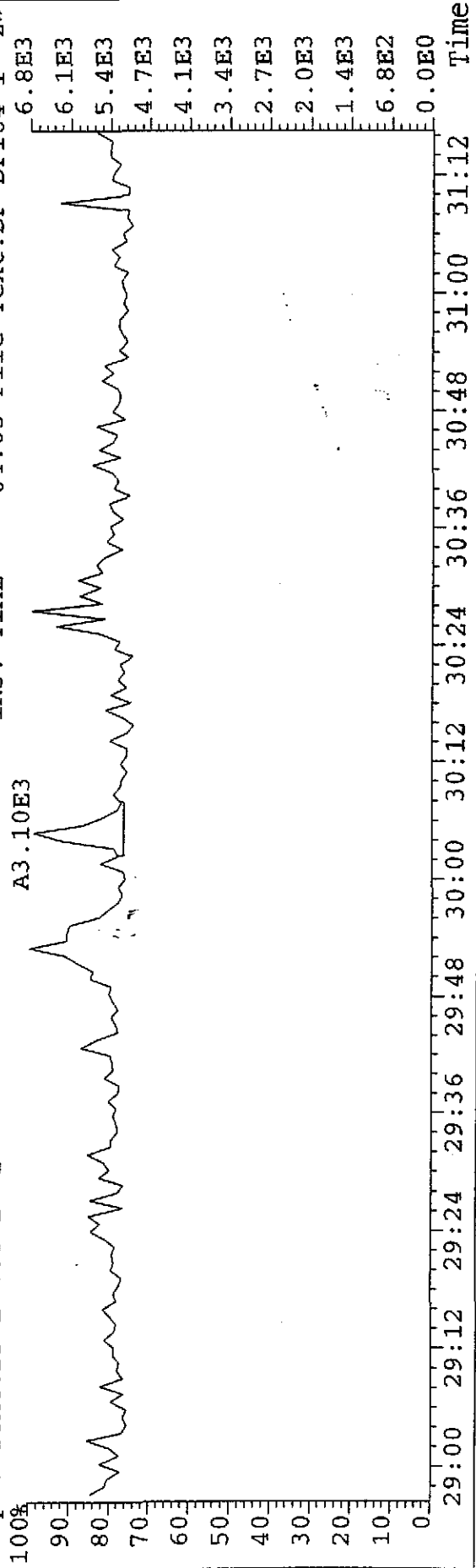


File:T023768 #1-924 Acq:26-JUL-2002 04:03:39 EI+ Voltage SIR 70T

341.8567 F:2 Exp:NDB5US

Sample Text:DF-DP164-1'-2'

INJ. TIME = 04:05 File Text:DF-DP164-1'-2>



OEM 712002

