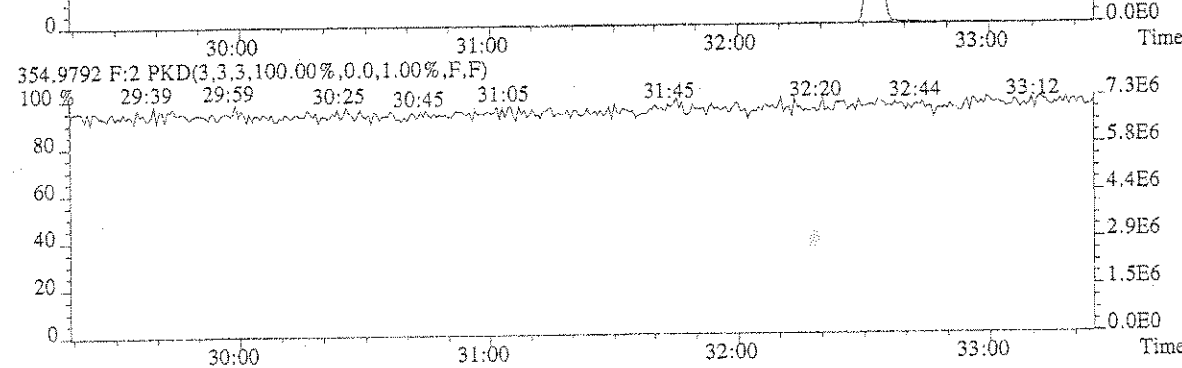
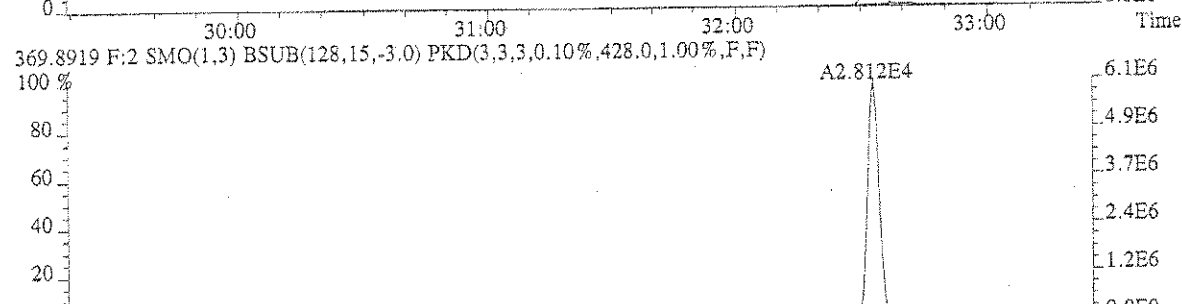
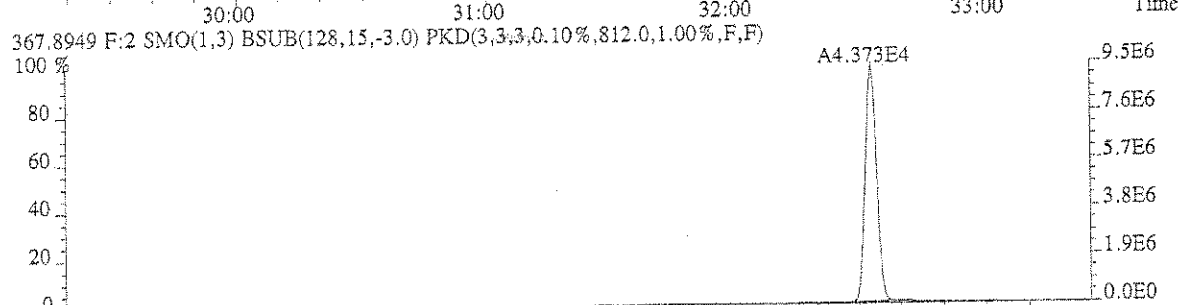
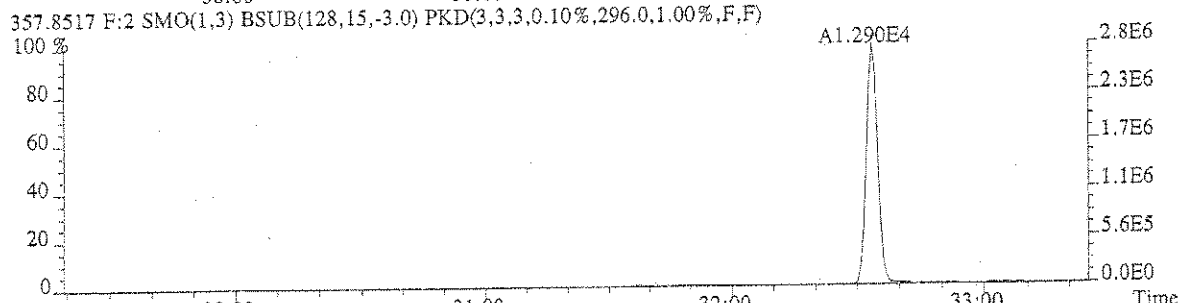
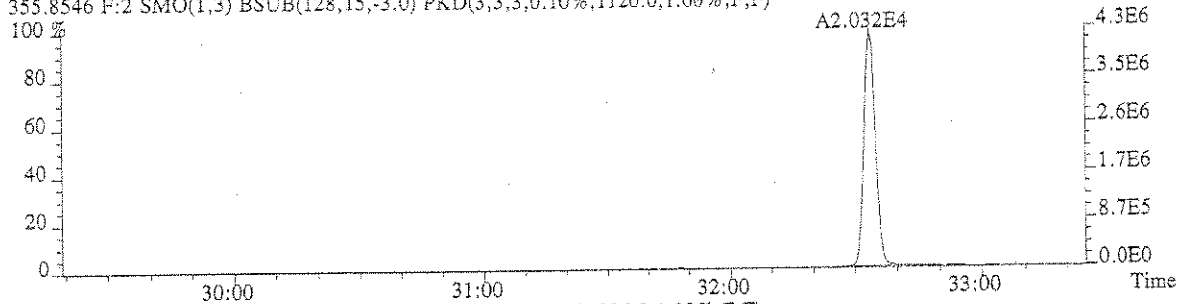
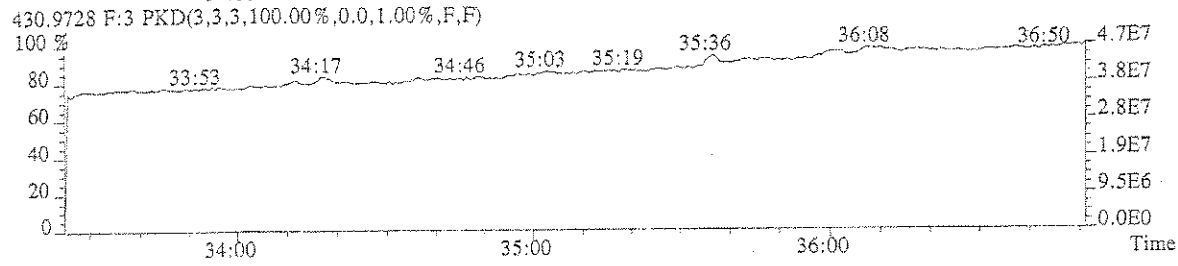
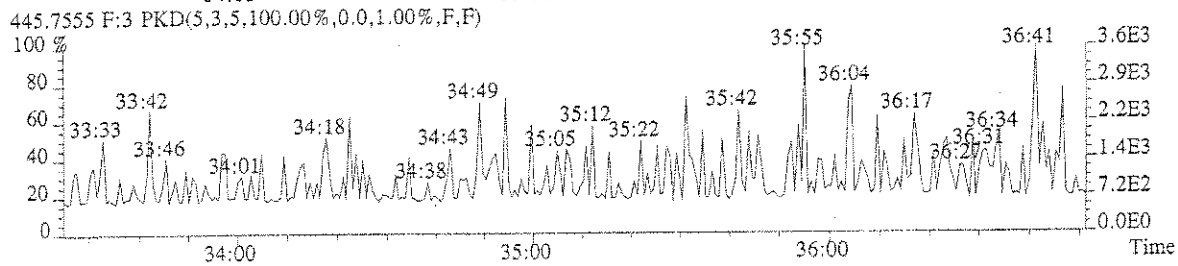
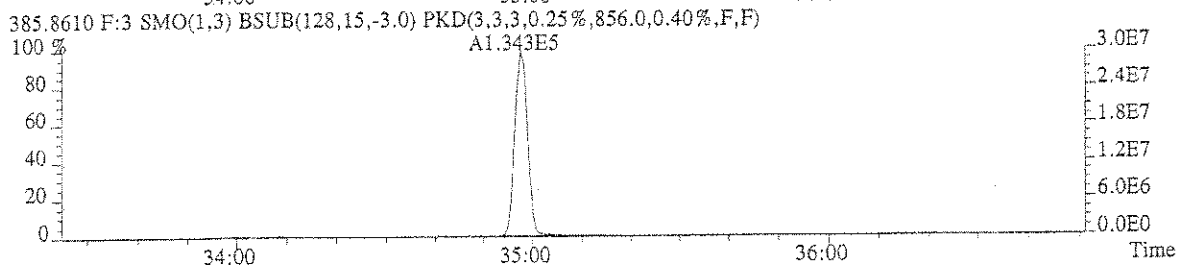
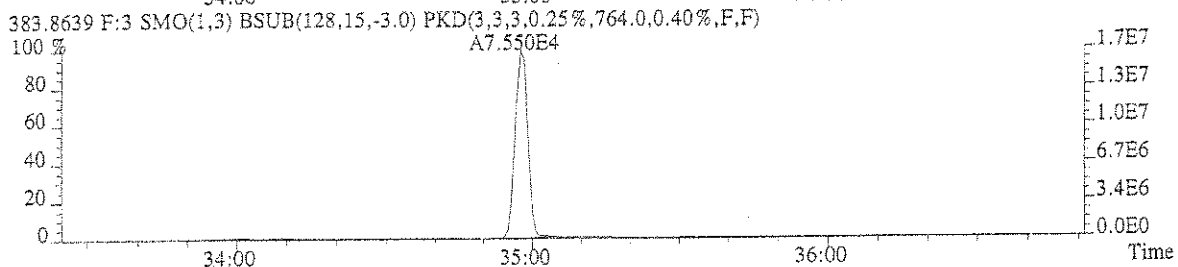
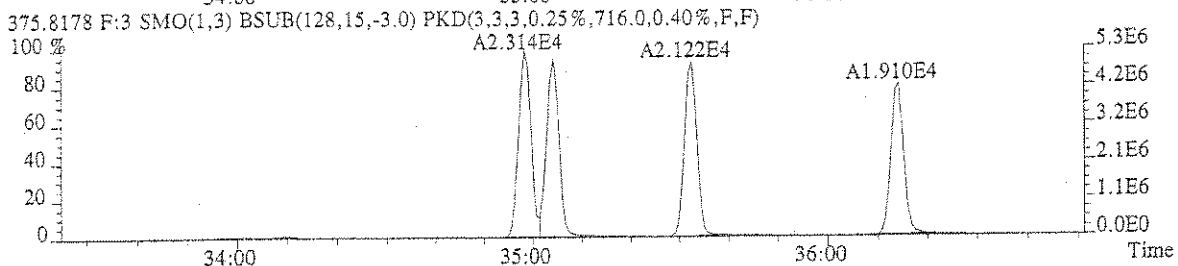
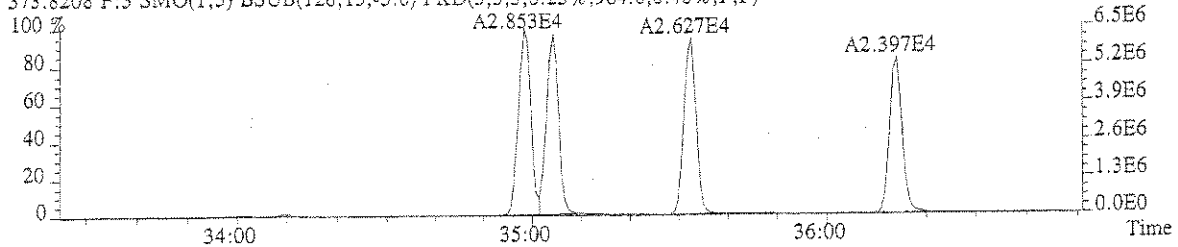


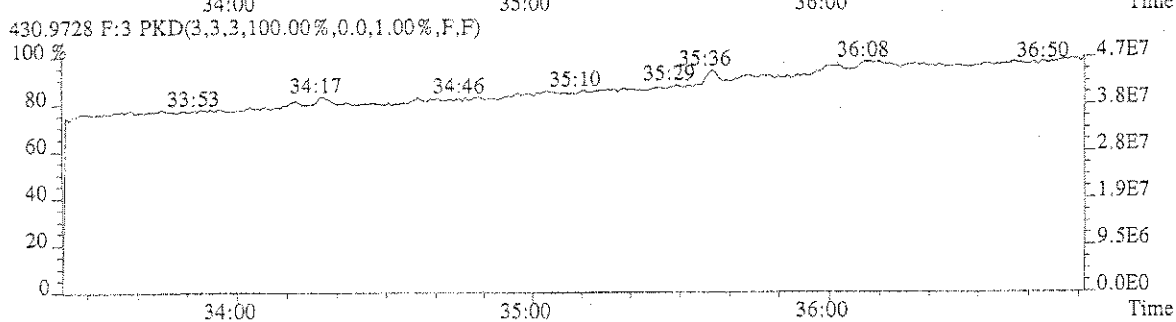
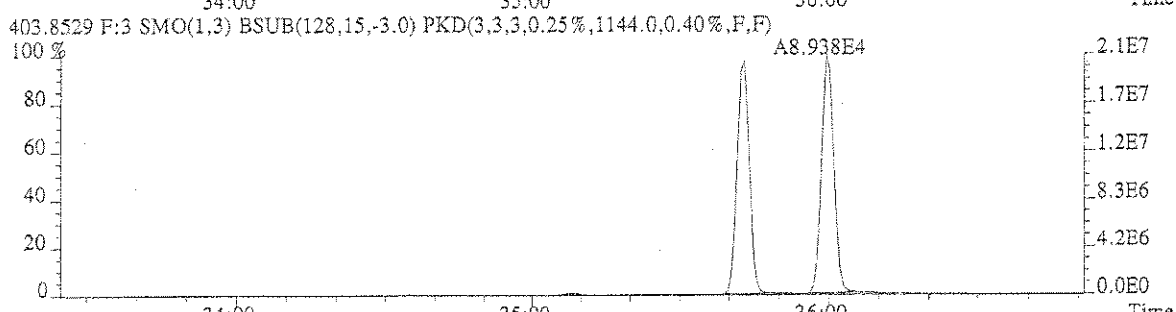
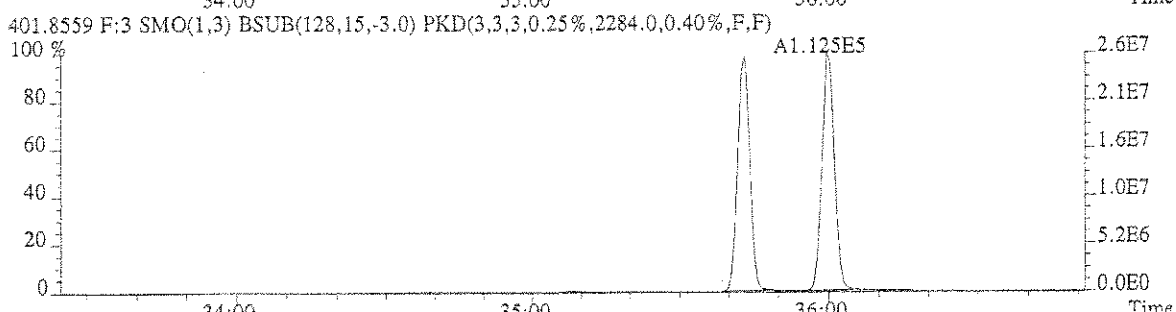
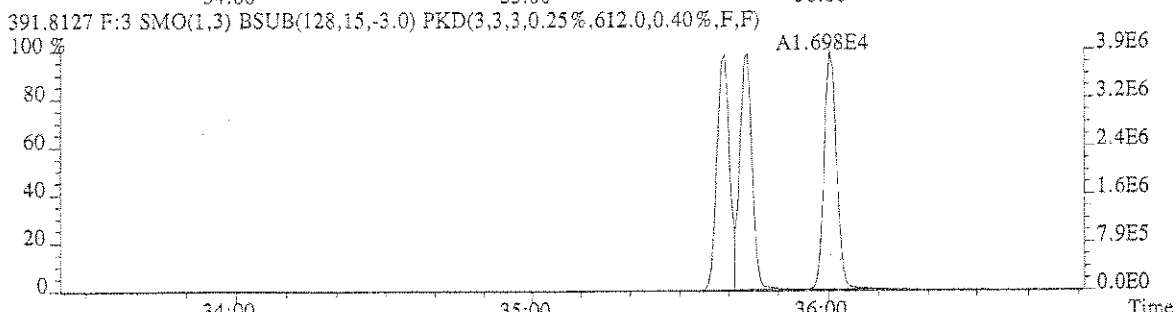
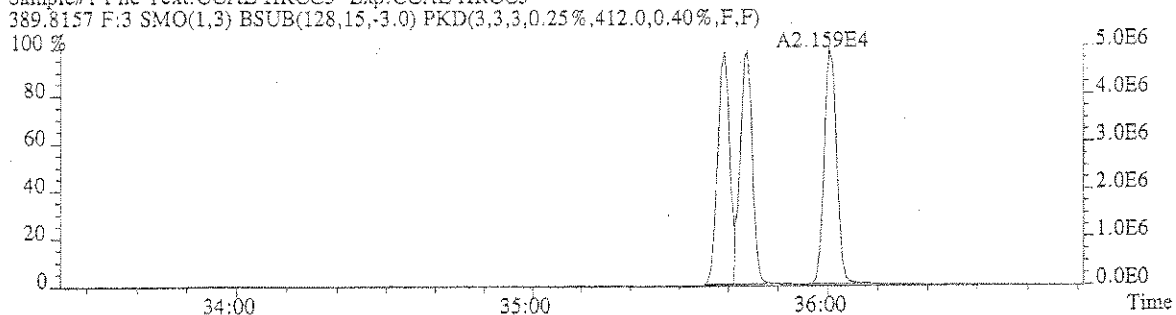
File:U122466 #1-372 Acq:21-AUG-2007 05:45:09 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3
355.8546 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1120.0,1.00%,F,F)



File:U122466 #1-313 Acq:21-AUG-2007 05:45:09 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3
373.8208 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,964.0,0.40%,F,F)



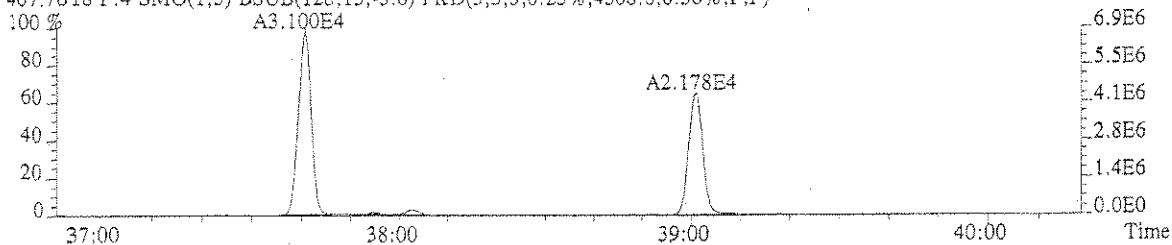
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 Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3



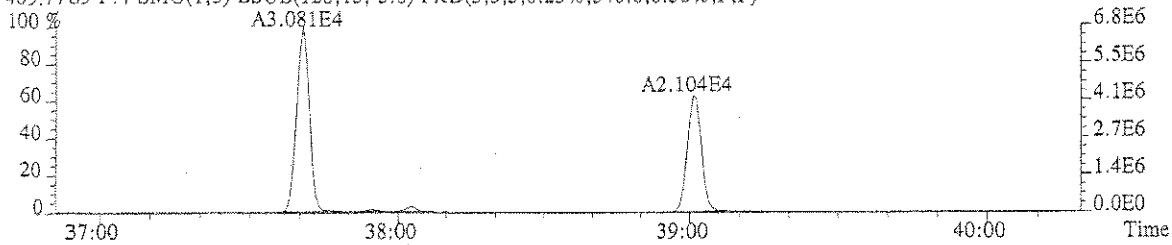
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Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3

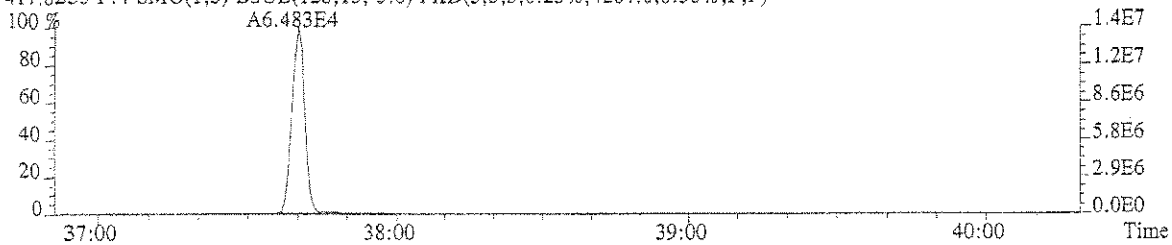
407.7818 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,4508.0,0.50%,F,F)



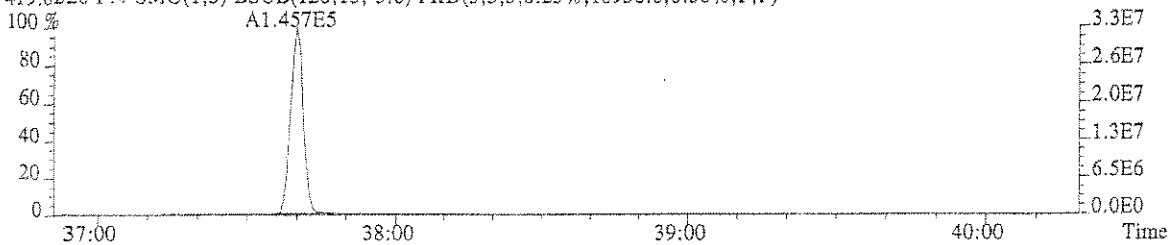
409.7789 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,340.0,0.50%,F,F)



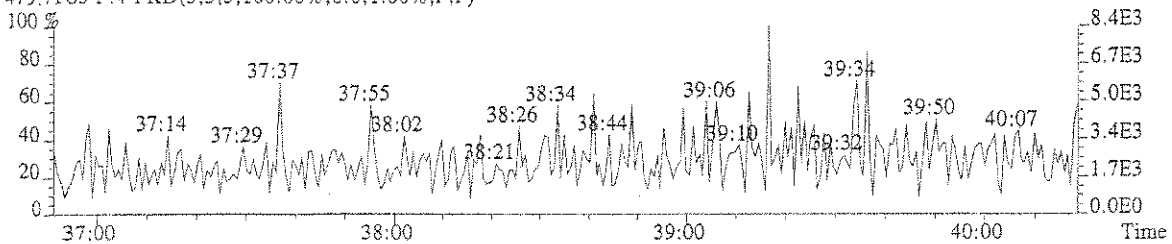
417.8253 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,4264.0,0.50%,F,F)



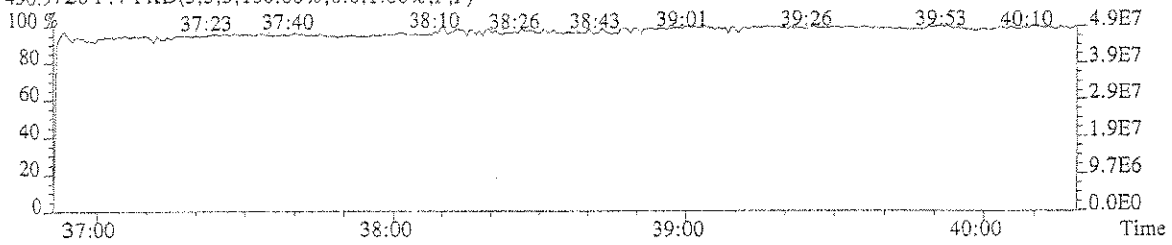
419.8220 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,10936.0,0.50%,F,F)



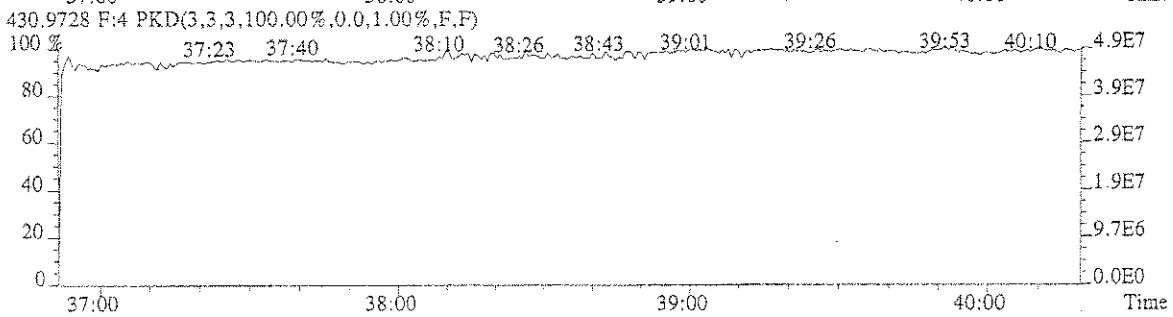
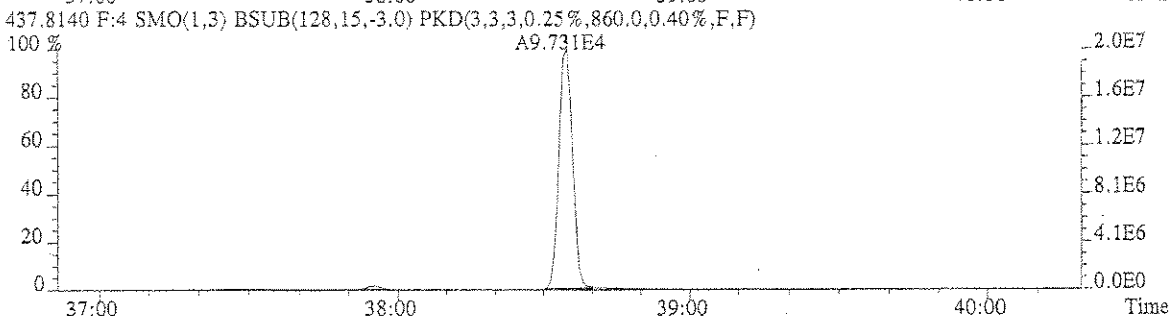
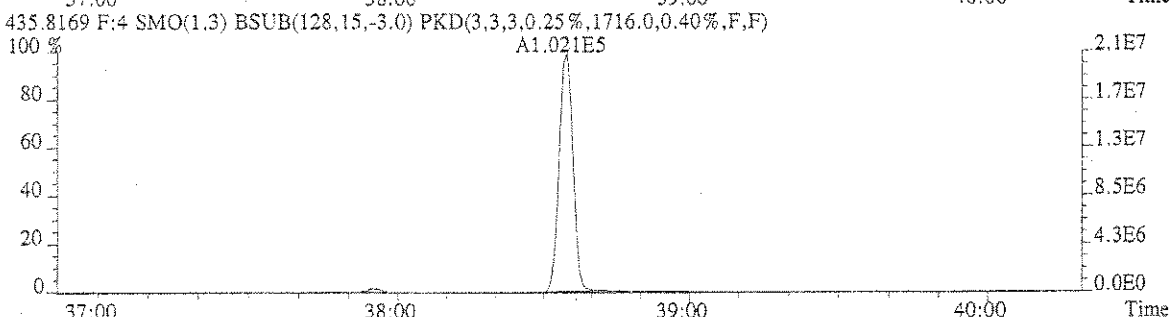
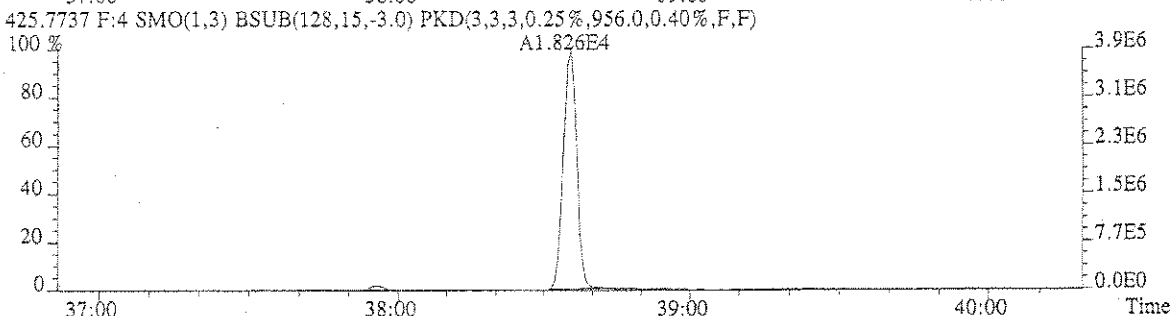
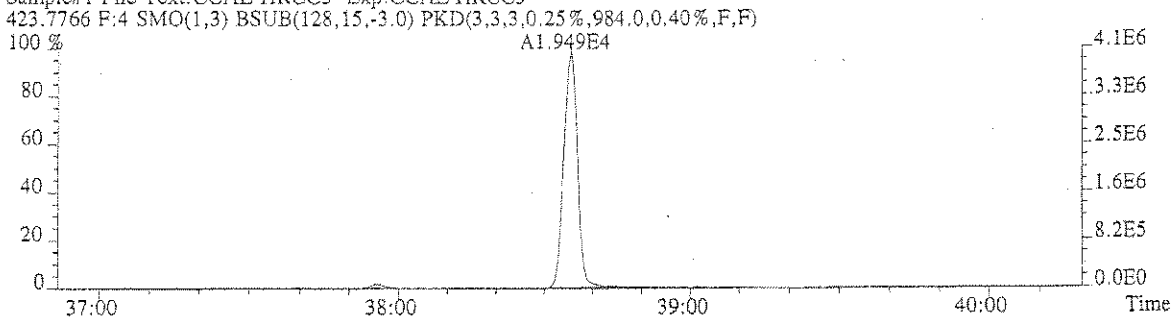
479.7165 F:4 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



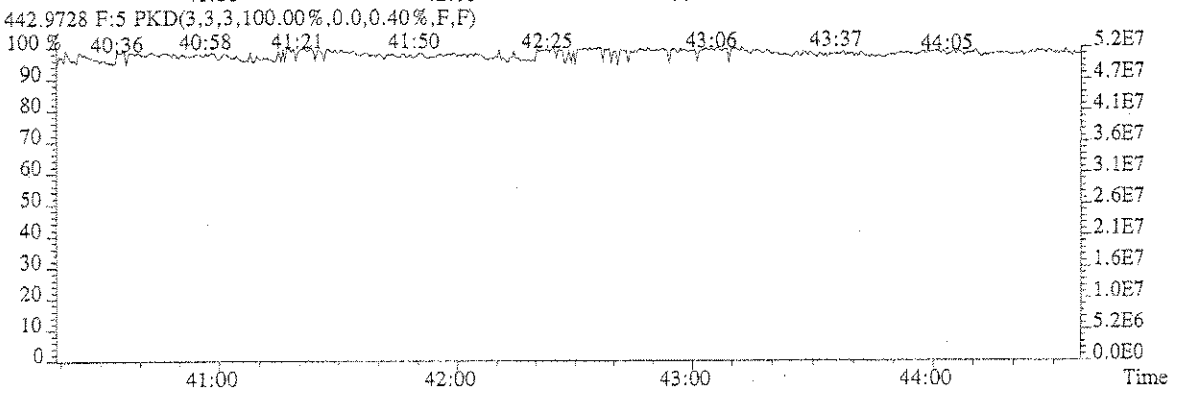
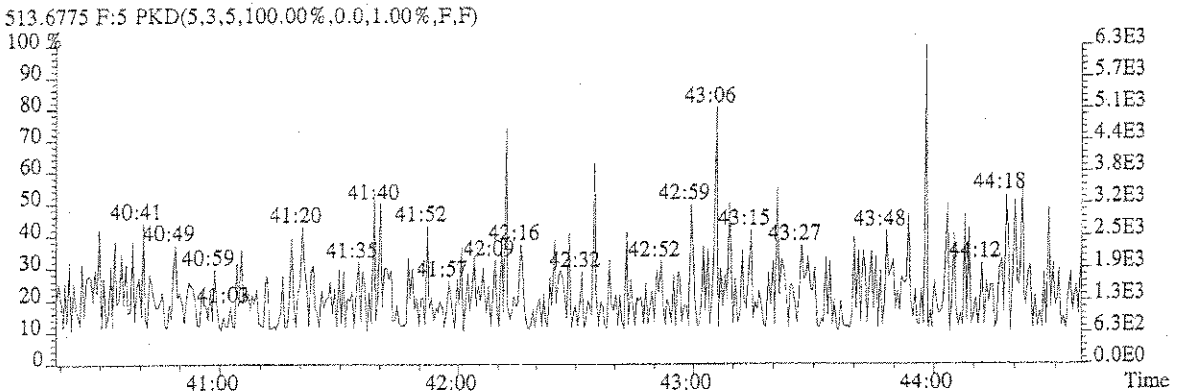
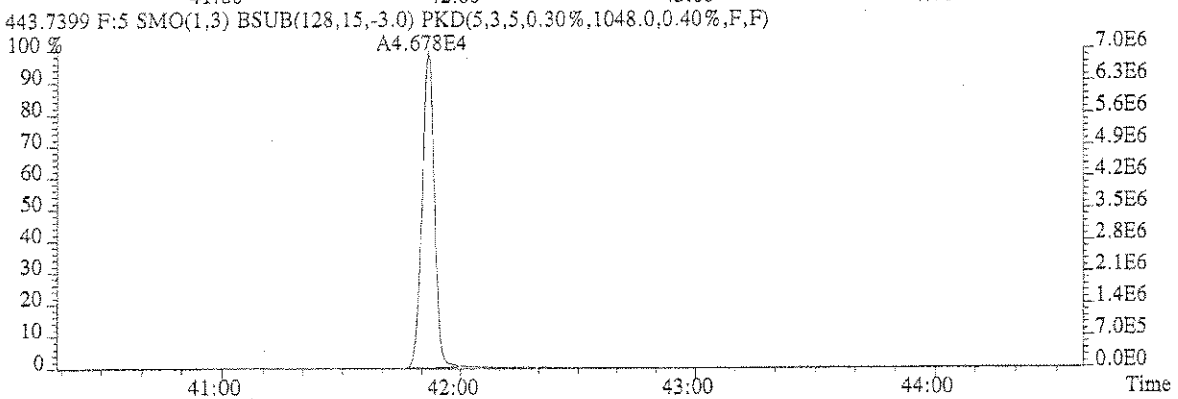
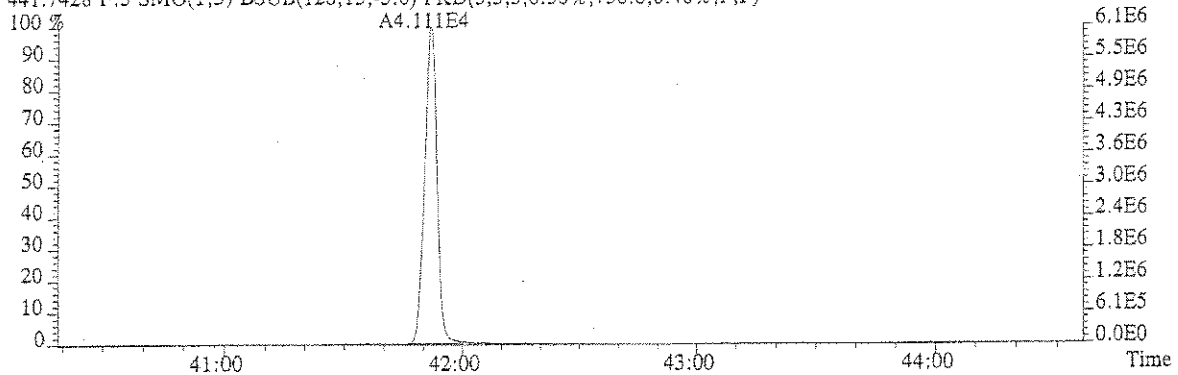
430.9728 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



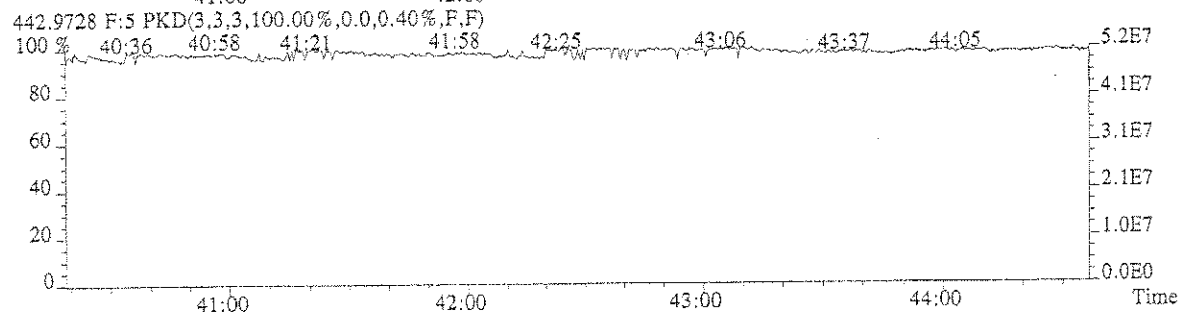
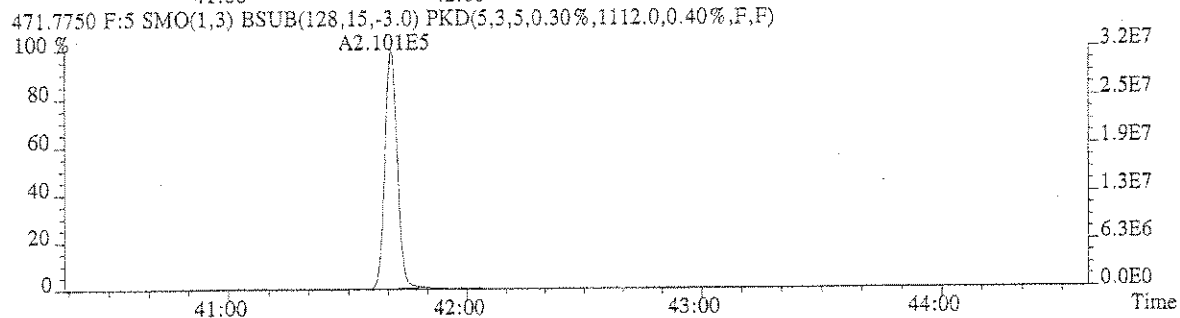
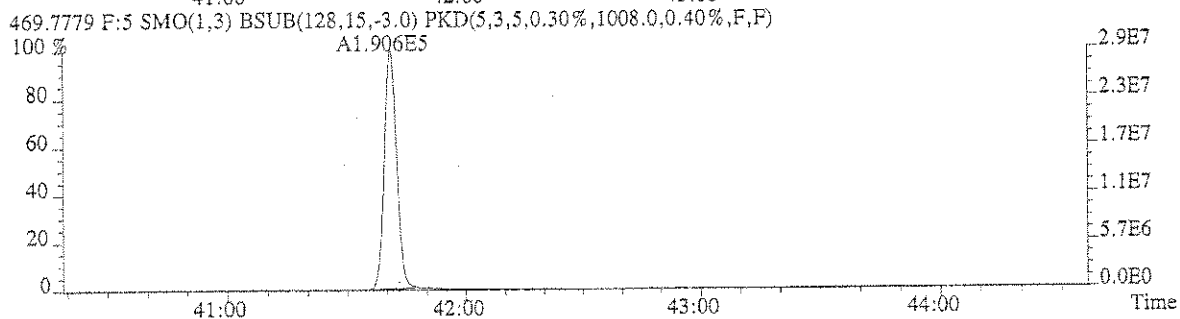
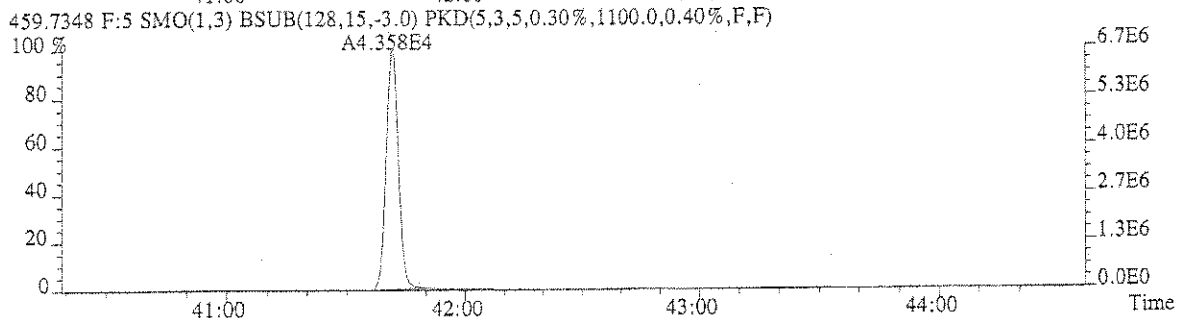
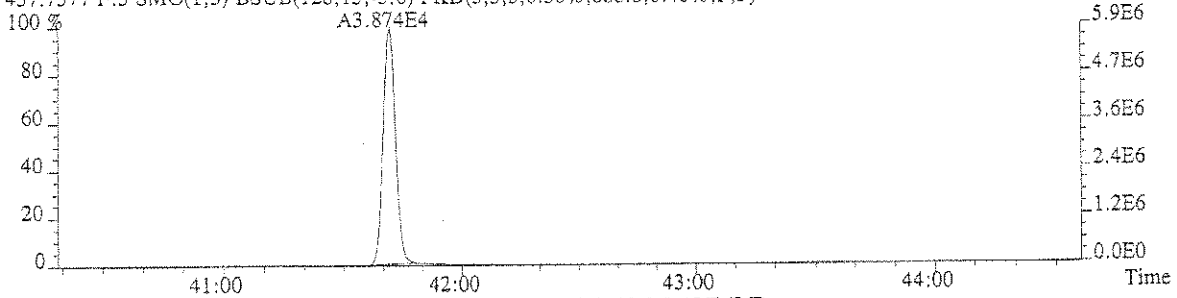
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Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3



File:U122466 #1-475 Acq:21-AUG-2007 05:45:09 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3
441.7428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,756.0,0.40%,F,F)



File:U122466 #1-475 Acq:21-AUG-2007 05:45:09 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3
457.7377 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,888.0,0.40%,F,F)



FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SDG No.:

Initial Calibration Date: 04/02/07

Instrument ID: AutoSpec-Ultima GC Column ID: DB-5

VER Data Filename: U122477 Analysis Date: 21-AUG-07 Time: 16:38:22

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CCAL. RRF	MEAN RRF	%D (3)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	0.95	0.96	-1.32
1,2,3,7,8-PeCDD	M+2/M+4	1.56	1.32-1.78	0.90	0.91	-1.43
1,2,3,4,7,8-HxCDD	M+2/M+4	1.35	1.05-1.43	0.97	1.03	-6.19
1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	0.96	1.07	-10.09
1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	0.90	0.99	-8.83
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	1.07	0.93	15.78
OCDD	M+2/M+4	0.86	0.76-1.02	1.27	1.02	24.94
2,3,7,8-TCDF	M/M+2	0.81	0.65-0.89	0.90	0.96	-6.13
1,2,3,7,8-PeCDF	M+2/M+4	1.51	1.32-1.78	0.92	0.91	1.09
2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	0.95	0.95	0.49
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	1.16	1.17	-0.38
1,2,3,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	1.11	1.14	-2.86
1,2,3,7,8,9-HxCDF	M+2/M+4	1.29	1.05-1.43	0.91	0.86	5.38
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	1.08	1.03	4.88
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.01	0.88-1.20	1.50	1.36	10.07
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	1.00	1.02	-2.10
OCDF	M+2/M+4	0.89	0.76-1.02	1.03	1.09	-5.07

(1) See Table 6, Method 8290, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 8, Method 8290.

(3) The beginning CCAL %RSD for the 17 unlabeled standard must not exceed +/- 20%, Section 7.7.4.1. The ending CCAL must not exceed +/-25%. Section 8.3.2.4.

8290F4A

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SDG No.:

Initial Calibration Date: 04/02/07

Instrument ID: AutoSpec-Ultima GC Column ID: DB-5

VER Data Filename: U122477 Analysis Date: 21-AUG-07 Time: 16:38:22

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CCAL. RRF	MEAN RRF	%D (3)
13C-2,3,7,8-TCDD	M/M+2	0.75	0.65-0.89	0.96	0.90	6.80
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.60	1.32-1.78	0.90	1.06	-15.18
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	1.01	1.01	0.33
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	0.95	1.09	-13.25
13C-OCDD	M+2/M+4	0.89	0.76-1.02	1.00	1.17	-14.50
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	1.18	1.20	-1.46
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.53	1.32-1.78	1.19	1.52	-21.27
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.53	0.43-0.59	1.09	1.28	-14.84
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.44	0.37-0.51	0.94	1.11	-15.37
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD				0.94	0.86	9.72

(1) See Table 6, Method 8290, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 8, Method 8290.

(3) The beginning CCAL %RSD for the labeled standard must not exceed +/- 30%, Section 7.7.4.2. The ending CCAL must not exceed +/- 35%, Section 8.3.2.4.

8290F4B

Run #7 Filename U122477 Samp: 1 Inj: 1 Acquired: 21-AUG-07 16:38:22
Processed: 22-AUG-07 08:52:56 LAB. ID: CCAL HRCC3

Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?
1 Unk	2,3,7,8-TCDF	27:20	7.630e+03	9.421e+03	0.81	yes	no
2 Unk	1,2,3,7,8-PeCDF	31:31	2.674e+04	1.769e+04	1.51	yes	no
3 Unk	2,3,4,7,8-PeCDF	32:13	2.824e+04	1.758e+04	1.61	yes	no
4 Unk	1,2,3,4,7,8-HxCDF	34:59	2.484e+04	1.992e+04	1.25	yes	no
5 Unk	1,2,3,6,7,8-HxCDF	35:04	2.380e+04	1.893e+04	1.26	yes	no
6 Unk	2,3,4,6,7,8-HxCDF	35:33	2.309e+04	1.857e+04	1.24	yes	no
7 Unk	1,2,3,7,8,9-HxCDF	36:14	1.970e+04	1.528e+04	1.29	yes	no
8 Unk	1,2,3,4,6,7,8-HpCDF	37:41	2.493e+04	2.460e+04	1.01	yes	no
9 Unk	1,2,3,4,7,8,9-HpCDF	39:01	1.668e+04	1.639e+04	1.02	yes	no
10 Unk	OCDF	41:52	3.452e+04	3.864e+04	0.89	yes	no
11 Unk	2,3,7,8-TCDD	28:07	6.392e+03	8.308e+03	0.77	yes	no
12 Unk	1,2,3,7,8-PeCDD	32:34	1.980e+04	1.273e+04	1.56	yes	no
13 Unk	1,2,3,4,7,8-HxCDD	35:39	1.983e+04	1.472e+04	1.35	yes	no
14 Unk	1,2,3,6,7,8-HxCDD	35:44	1.883e+04	1.535e+04	1.23	yes	no
15 Unk	1,2,3,7,8,9-HxCDD	36:01	1.796e+04	1.411e+04	1.27	yes	no
16 Unk	1,2,3,4,6,7,8-HpCDD	38:35	1.817e+04	1.764e+04	1.03	yes	no
17 Unk	OCDD	41:42	4.157e+04	4.833e+04	0.86	yes	yes
18 IS	13C-2,3,7,8-TCDF	27:19	4.211e+04	5.299e+04	0.79	yes	no
19 IS	13C-1,2,3,7,8-PeCDF	31:30	5.838e+04	3.807e+04	1.53	yes	no
20 IS	13C-1,2,3,4,7,8-HxCDF	34:58	6.658e+04	1.260e+05	0.53	yes	no
21 IS	13C-1,2,3,4,6,7,8-HpCDF	37:40	5.060e+04	1.150e+05	0.44	yes	no
22 IS	13C-2,3,7,8-TCDD	28:07	3.317e+04	4.439e+04	0.75	yes	no
23 IS	13C-1,2,3,7,8-PeCDD	32:33	4.455e+04	2.782e+04	1.60	yes	no
24 IS	13C-1,2,3,6,7,8-HxCDD	35:43	9.895e+04	7.903e+04	1.25	yes	no
25 IS	13C-1,2,3,4,6,7,8-HpCDD	38:35	8.564e+04	8.155e+04	1.05	yes	no
26 IS	13C-OCDD	41:41	1.668e+05	1.869e+05	0.89	yes	no
27 RS/RT	13C-1,2,3,4-TCDD	27:55	3.472e+04	4.600e+04	0.75	yes	no
28 RS/RT	13C-1,2,3,7,8,9-HxCDD	36:00	9.796e+04	7.819e+04	1.25	yes	no
29 C/Up	37Cl-2,3,7,8-TCDD	28:07	1.521e+04				
				SUM AREA			
30 Tot	Total Tetra-Furans	26:53		1.742e+04	0.83	yes	
31 Tot	Total Tetra-Dioxins	28:07		1.470e+04	0.77	yes	
32 Tot	Total Penta-Furans	31:08		9.126e+04	1.50	yes	
33 Tot	Total Penta-Dioxins	32:34		3.261e+04	1.56	yes	
34 Tot	Total Hexa-Furans	34:59		1.641e+05	1.25	yes	
35 Tot	Total Hexa-Dioxins	35:39		1.008e+05	1.35	yes	
36 Tot	Total Hepta-Furans	37:41		8.628e+04	1.01	yes	
37 Tot	Total Hepta-Dioxins	37:56		4.015e+04	0.92	yes	

Columbia Analytical Services, Inc.
10655 Richmond Ave., Suite 130A
Houston, TX 77042
Office (713) 266-1599. Fax (713) 266-0130

Columbia Analytical Services, Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
CCAL HRCC3

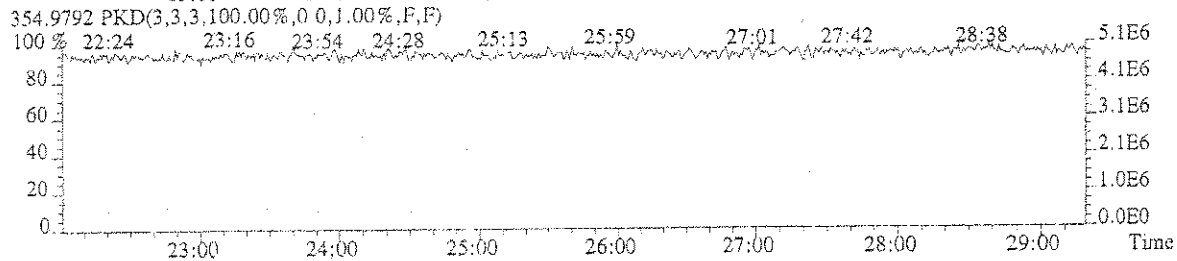
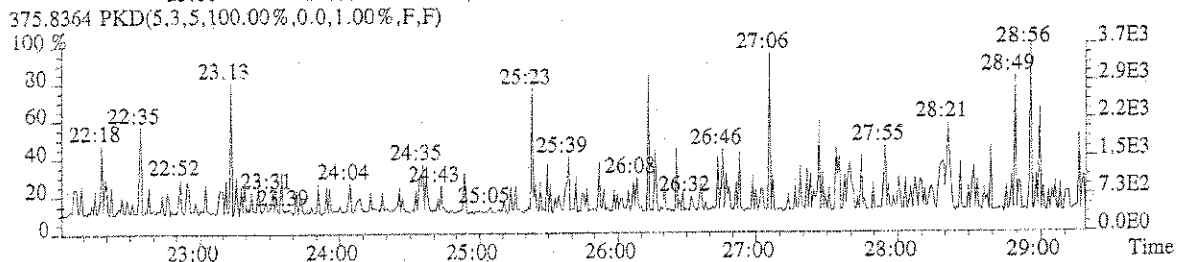
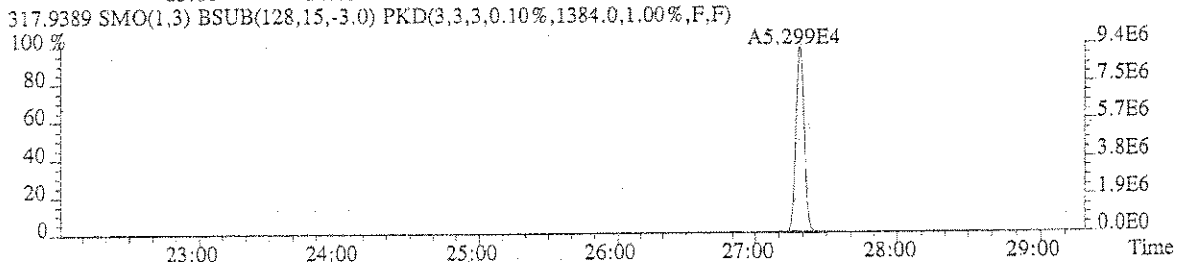
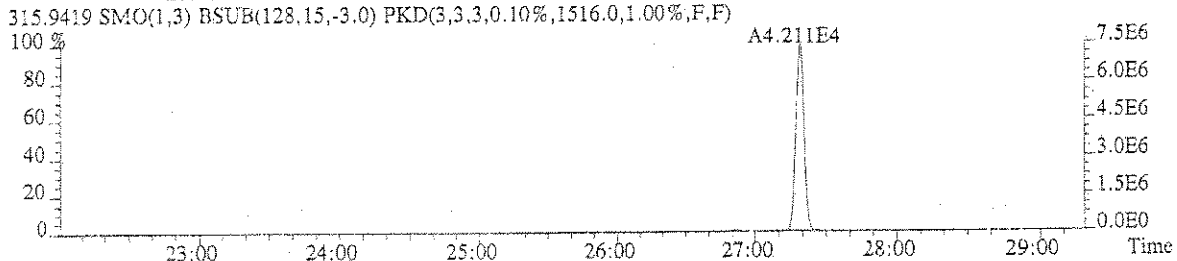
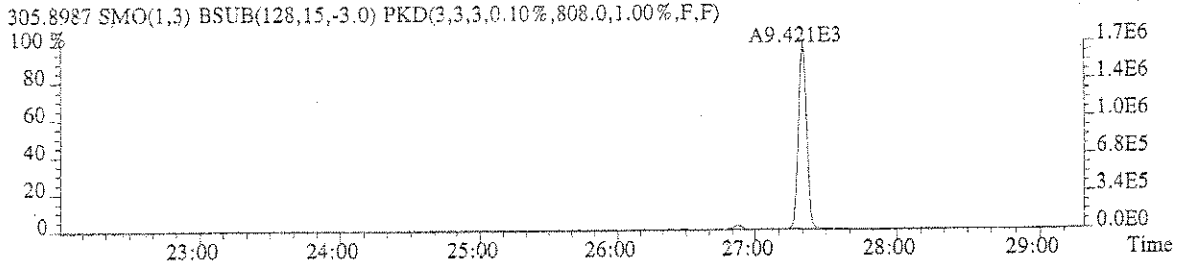
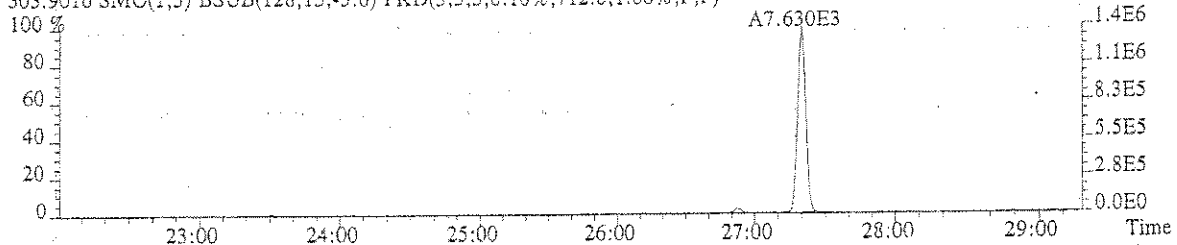
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Processed: 22-AUG-07 08:52:56 LAB. ID: CCAL HRCC3

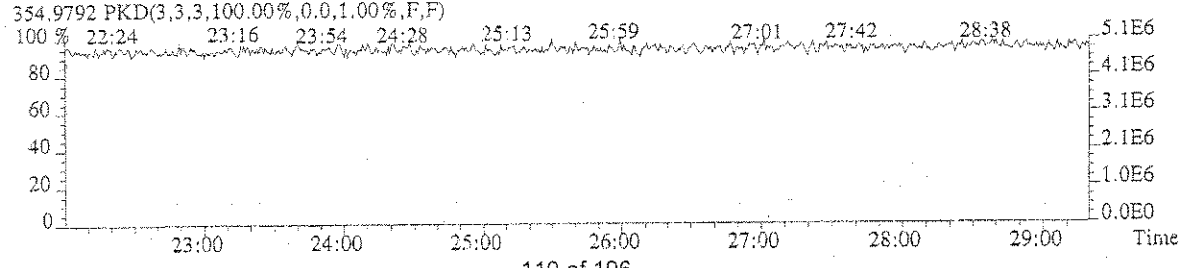
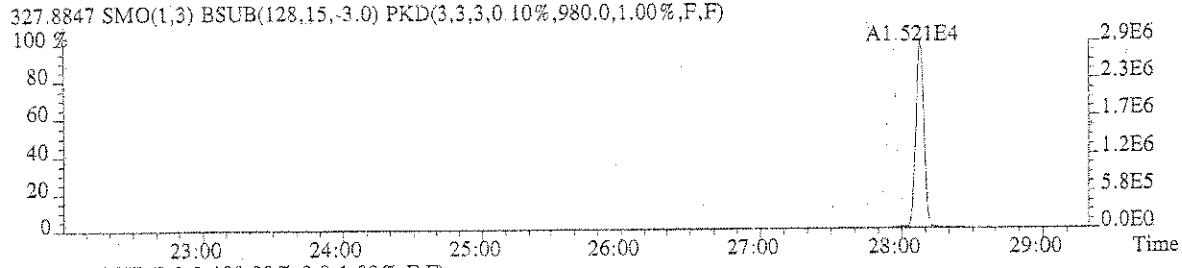
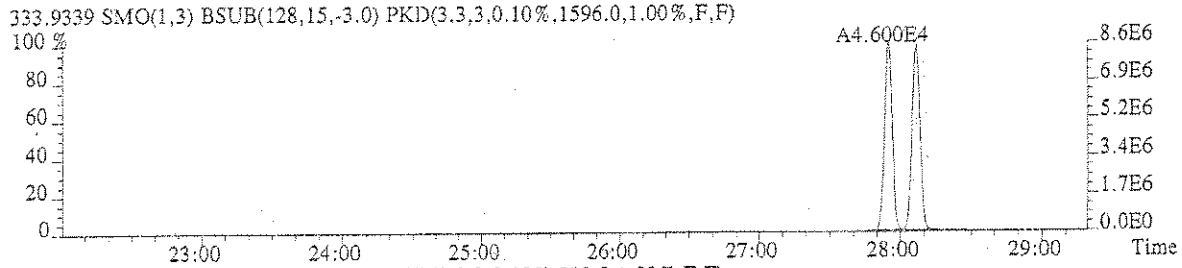
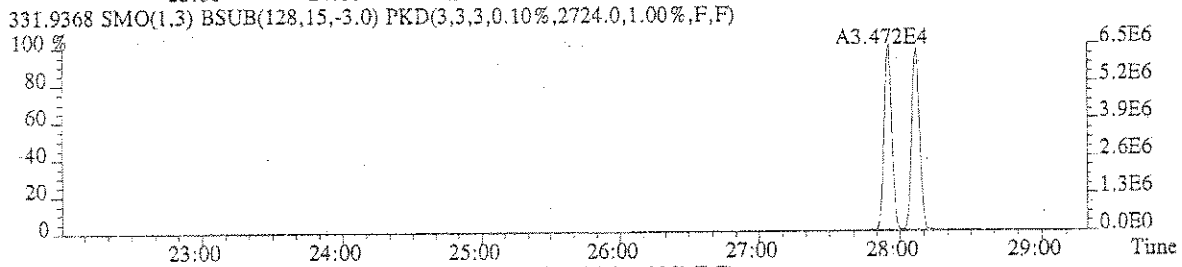
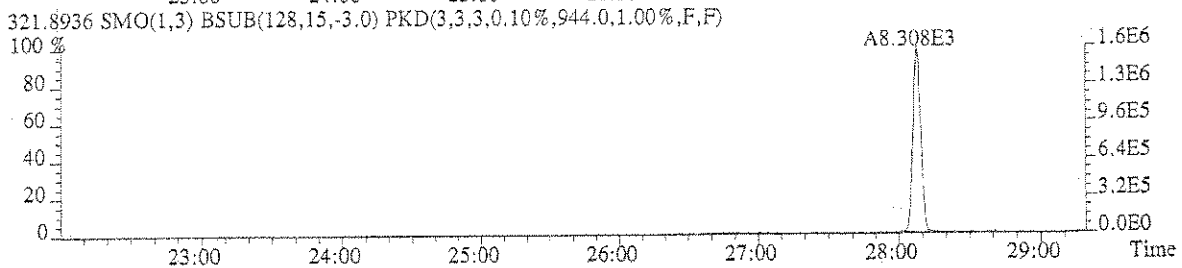
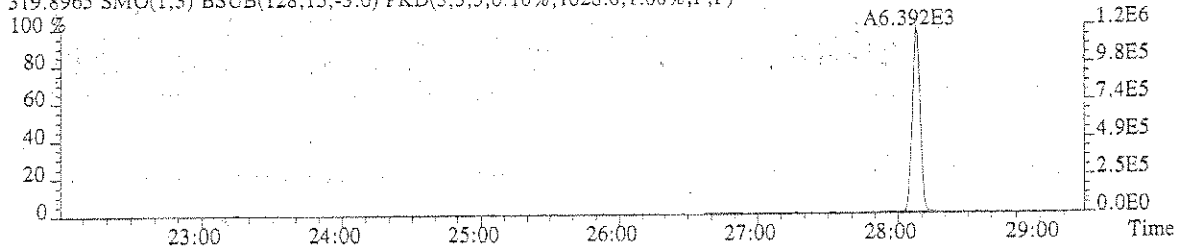
	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2,3,7,8-TCDF	1.38e+06	7.12e+02	1.9e+03	1.69e+06	8.08e+02	2.1e+03
2	1,2,3,7,8-PeCDF	5.47e+06	2.54e+03	2.1e+03	3.67e+06	3.04e+03	1.2e+03
3	2,3,4,7,8-PeCDF	5.85e+06	2.54e+03	2.3e+03	3.69e+06	3.04e+03	1.2e+03
4	1,2,3,4,7,8-HxCDF	5.70e+06	4.68e+04	1.2e+02	4.49e+06	4.81e+04	9.3e+01
5	1,2,3,6,7,8-HxCDF	5.44e+06	4.68e+04	1.2e+02	4.31e+06	4.81e+04	9.0e+01
6	2,3,4,6,7,8-HxCDF	5.32e+06	4.68e+04	1.1e+02	4.25e+06	4.81e+04	8.8e+01
7	1,2,3,7,8,9-HxCDF	4.55e+06	4.68e+04	9.7e+01	3.55e+06	4.81e+04	7.4e+01
8	1,2,3,4,6,7,8-HpCDF	5.48e+06	7.81e+03	7.0e+02	5.38e+06	6.05e+03	8.9e+02
9	1,2,3,4,7,8,9-HpCDF	3.47e+06	7.81e+03	4.4e+02	3.39e+06	6.05e+03	5.6e+02
10	OCDF	5.14e+06	4.87e+03	1.1e+03	5.59e+06	3.89e+03	1.4e+03
11	2,3,7,8-TCDD	1.23e+06	1.03e+03	1.2e+03	1.59e+06	9.44e+02	1.7e+03
12	1,2,3,7,8-PeCDD	4.13e+06	2.60e+03	1.6e+03	2.66e+06	2.04e+03	1.3e+03
13	1,2,3,4,7,8-HxCDD	4.59e+06	1.42e+05	3.2e+01	3.61e+06	1.92e+05	1.9e+01
14	1,2,3,6,7,8-HxCDD	4.57e+06	1.42e+05	3.2e+01	3.45e+06	1.92e+05	1.8e+01
15	1,2,3,7,8,9-HxCDD	4.24e+06	1.42e+05	3.0e+01	3.30e+06	1.92e+05	1.7e+01
16	1,2,3,4,6,7,8-HpCDD	3.79e+06	8.33e+03	4.5e+02	3.72e+06	6.93e+03	5.4e+02
17	OCDD	6.24e+06	1.02e+04	6.1e+02	7.23e+06	1.07e+04	6.8e+02
18	13C-2,3,7,8-TCDF	7.49e+06	1.52e+03	4.9e+03	9.40e+06	1.38e+03	6.8e+03
19	13C-1,2,3,7,8-PeCDF	1.18e+07	2.17e+03	5.4e+03	7.66e+06	2.28e+03	3.4e+03
20	13C-1,2,3,4,7,8-HxCDF	1.49e+07	3.37e+03	4.4e+03	2.78e+07	8.13e+03	3.4e+03
21	13C-1,2,3,4,6,7,8-HpCDF	1.09e+07	5.27e+03	2.1e+03	2.49e+07	1.47e+04	1.7e+03
22	13C-2,3,7,8-TCDD	6.37e+06	2.72e+03	2.3e+03	8.46e+06	1.60e+03	5.3e+03
23	13C-1,2,3,7,8-PeCDD	9.48e+06	2.38e+03	4.0e+03	5.92e+06	1.53e+03	3.9e+03
24	13C-1,2,3,6,7,8-HxCDD	2.32e+07	7.94e+03	2.9e+03	1.87e+07	6.06e+03	3.1e+03
25	13C-1,2,3,4,6,7,8-HpCDD	1.85e+07	4.66e+03	4.0e+03	1.76e+07	4.50e+03	3.9e+03
26	13C-OCDD	2.49e+07	7.94e+03	3.1e+03	2.80e+07	7.24e+03	3.9e+03
27	13C-1,2,3,4-TCDD	6.49e+06	2.72e+03	2.4e+03	8.60e+06	1.60e+03	5.4e+03
28	13C-1,2,3,7,8,9-HxCDD	2.29e+07	7.94e+03	2.9e+03	1.79e+07	6.06e+03	2.9e+03
29	37Cl-2,3,7,8-TCDD	2.88e+06	9.80e+02	2.9e+03			

Columbia Analytical Services, Inc.
10655 Richmond Ave., Suite 130A
Houston, TX 77042
Office: (713)266-1599. Fax: (713)266-0130

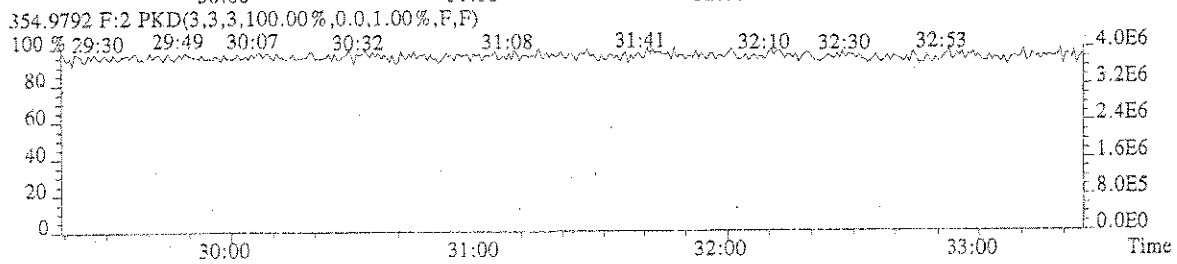
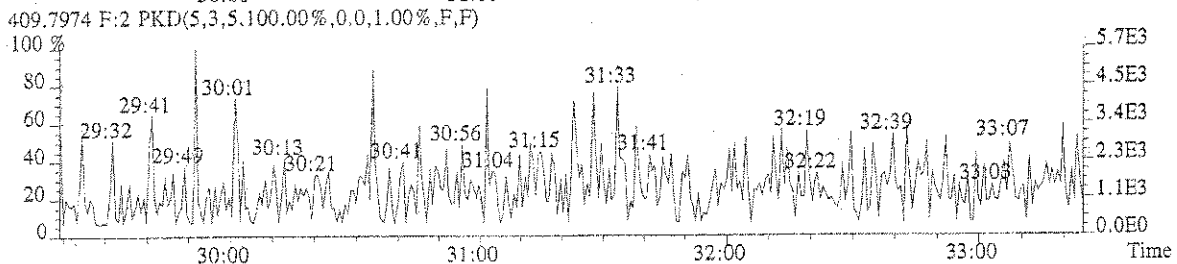
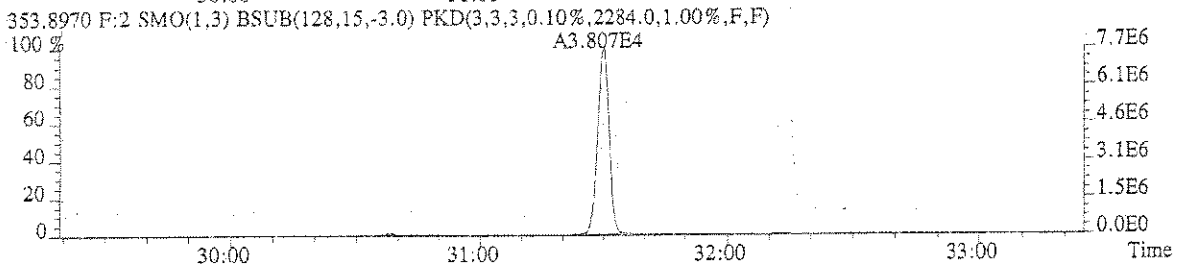
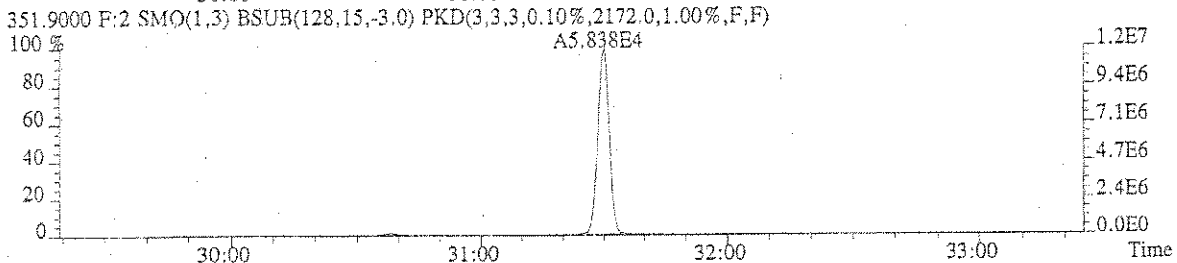
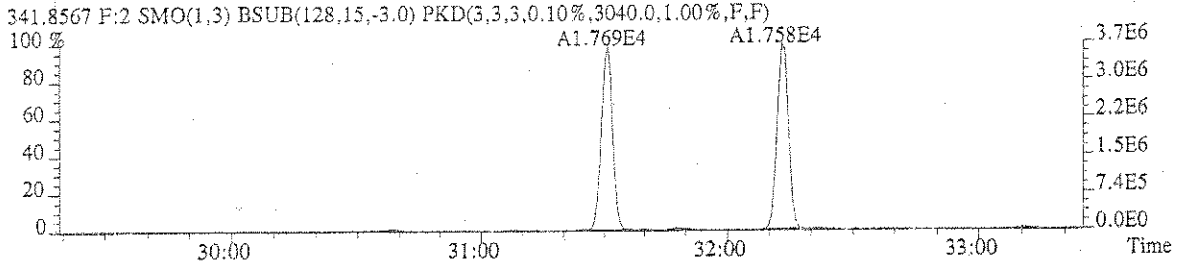
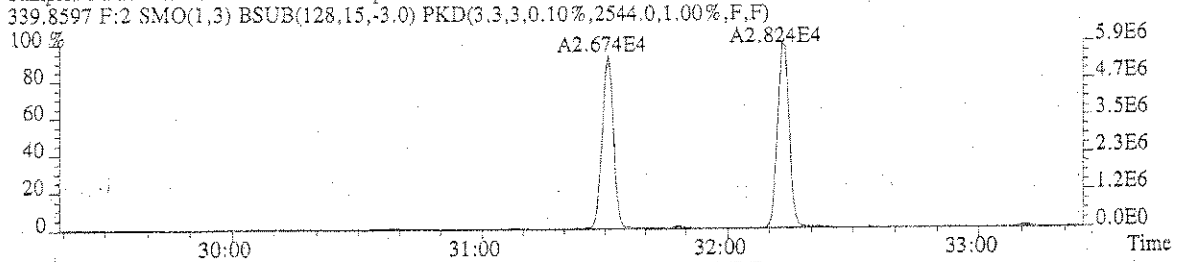
File:U122477 #1-610 Acq:21-AUG-2007 16:38:22 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3
303.9016 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,712.0,1.00%,F,F)



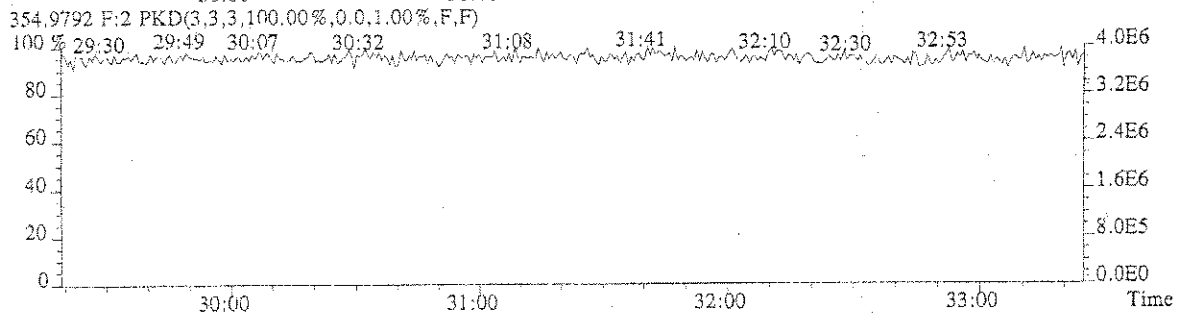
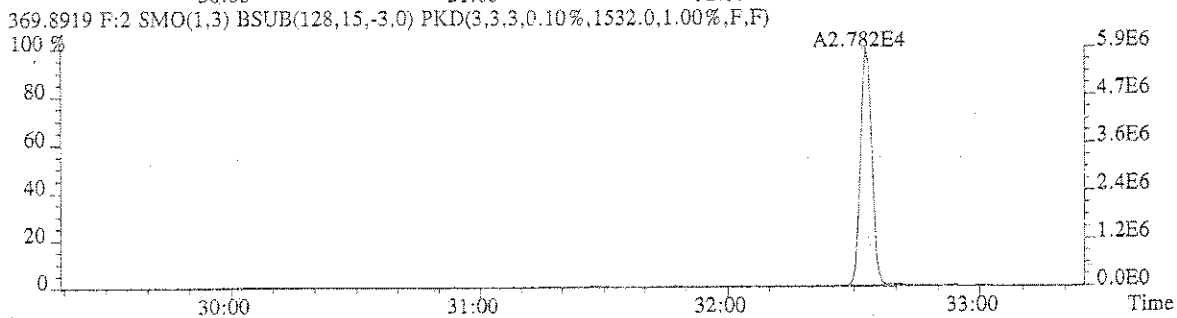
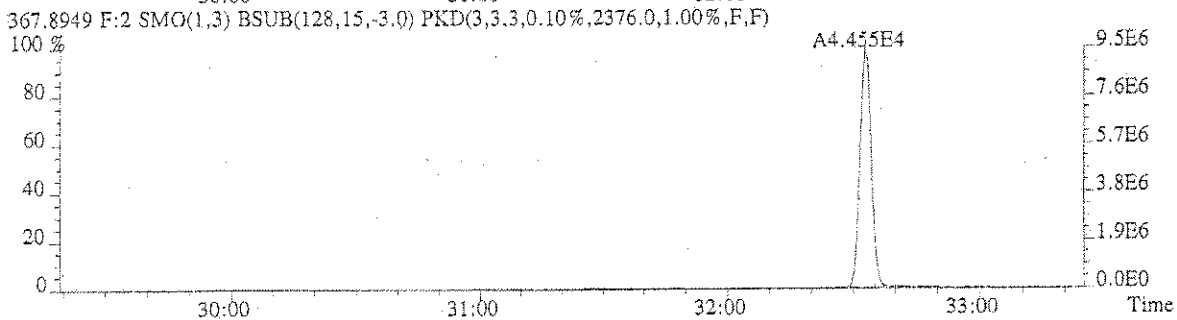
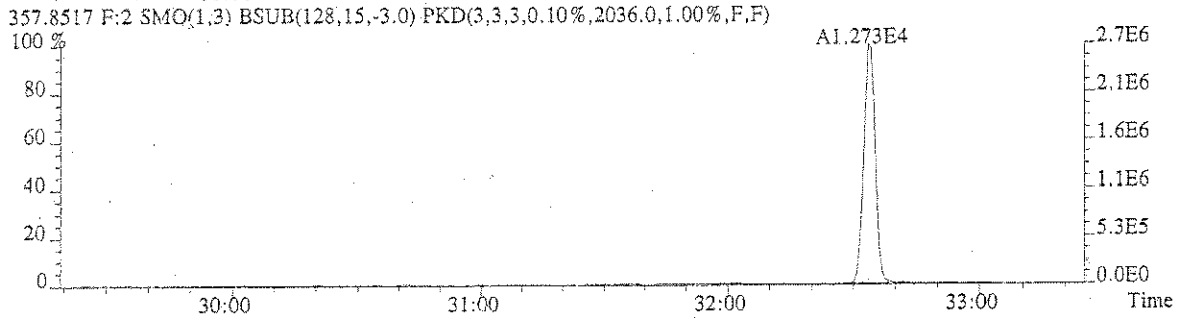
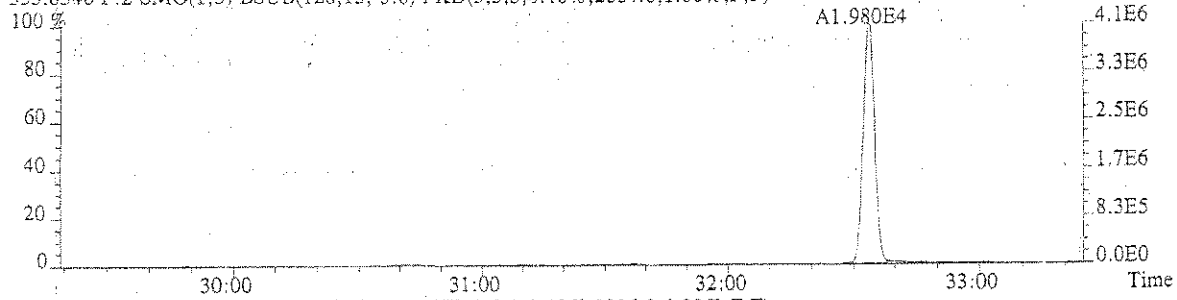
File:U122477 #1-610 Acq:21-AUG-2007 16:38:22 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3
319.8965 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1028.0,1.00%,F,F)



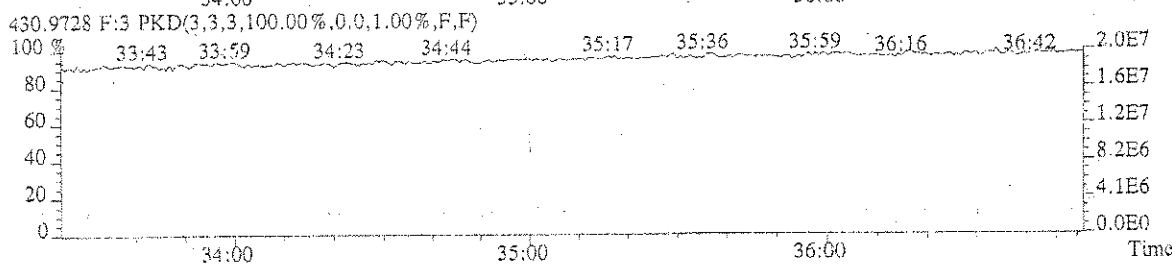
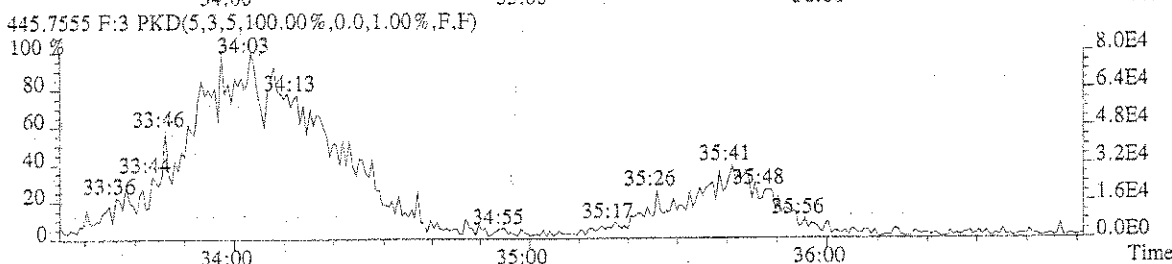
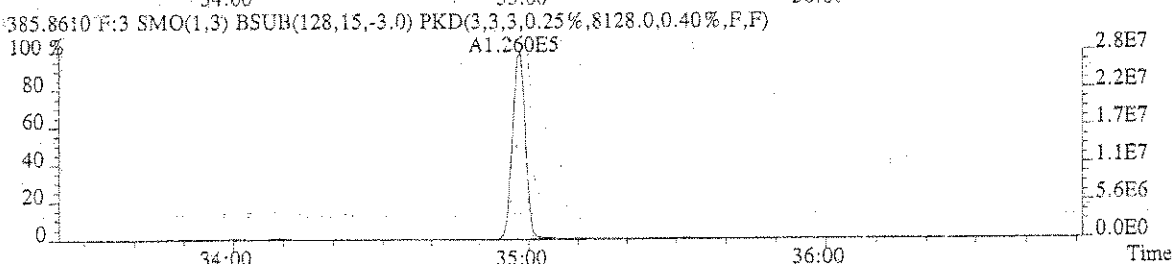
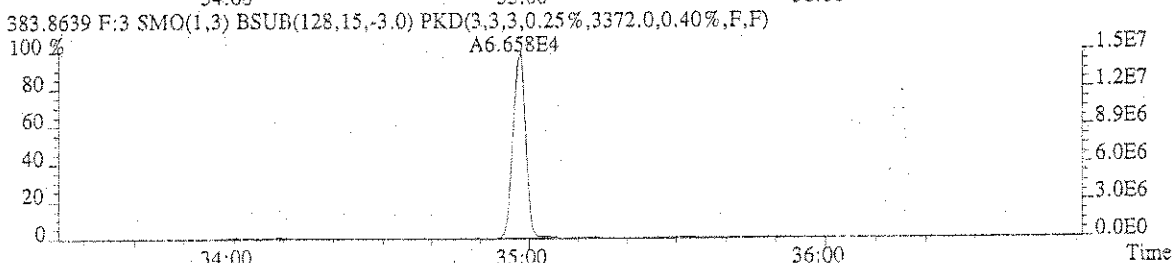
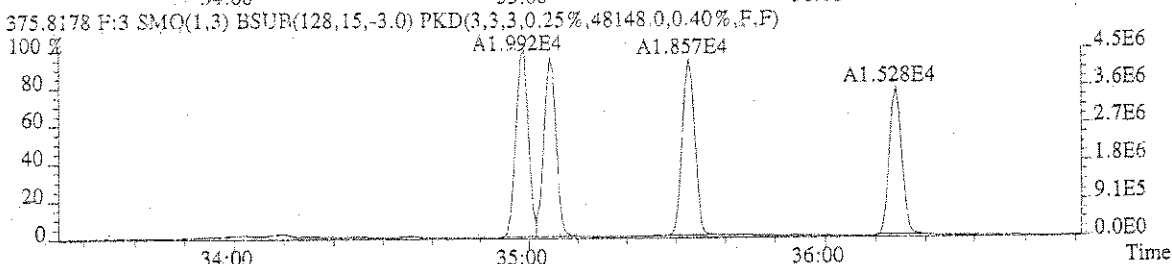
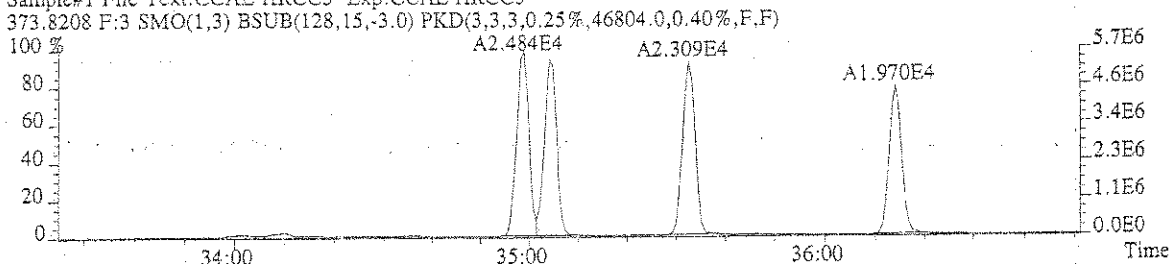
File:U122477 #1-372 Acq:21-AUG-2007 16:38:22 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3



File:U122477 #1-372 Acq:21-AUG-2007 16:38:22 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3
355.8546 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2604.0,1.00%,F,F)



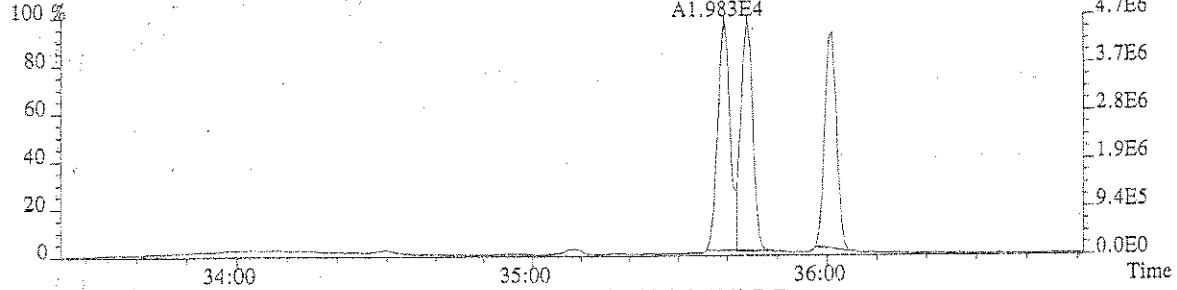
File:U122477 #1-313 Acq:21-AUG-2007 16:38:22 Probe EI+ Magnet SIR VG BioTech Mass spectf
 Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3



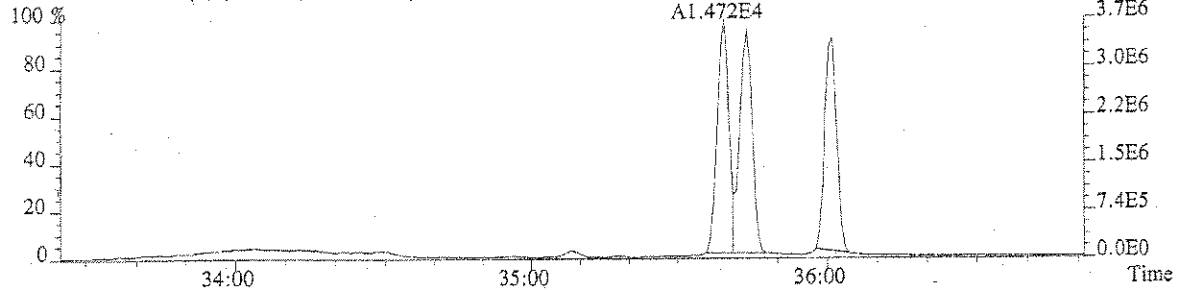
File:U122477 #1-313 Acq:21-AUG-2007 16:38:22 Probe EI+ Magnet SIR VG BioTech Mass spectf

Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3

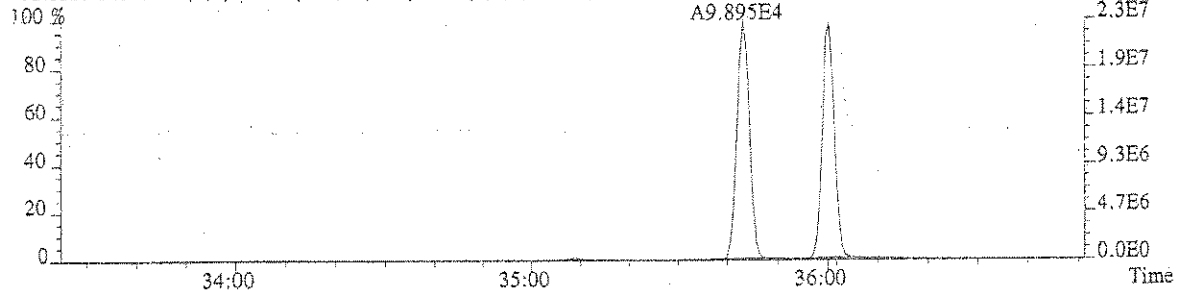
389.8157 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,141676.0,0.40%,F,F)



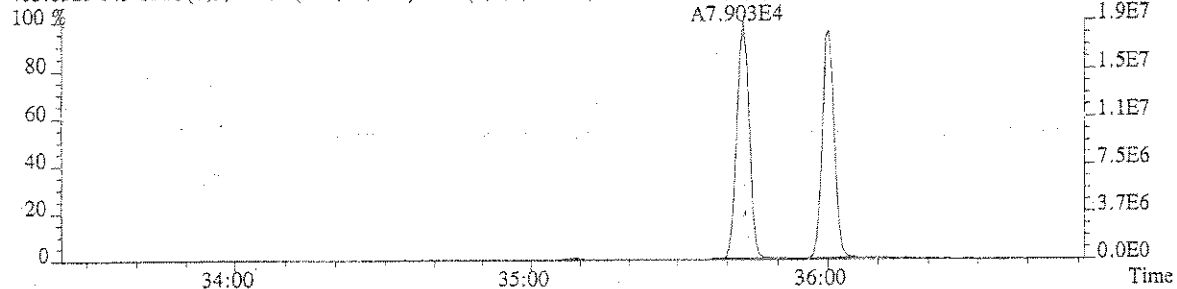
391.8127 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,191708.0,0.40%,F,F)



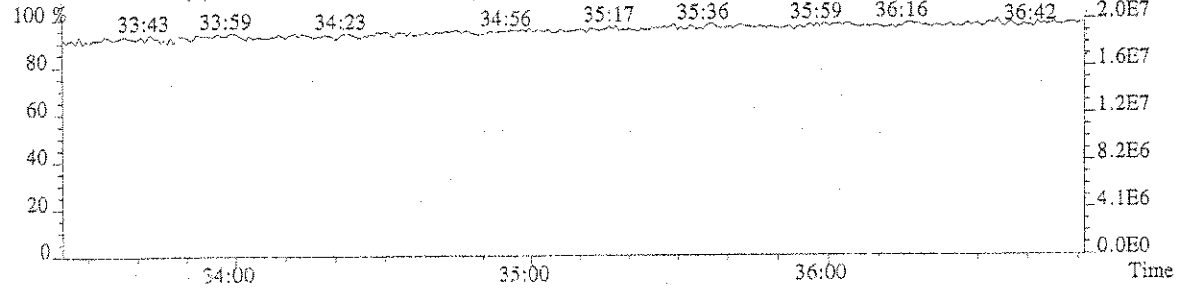
401.8559 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,7936.0,0.40%,F,F)



403.8529 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,6060.0,0.40%,F,F)

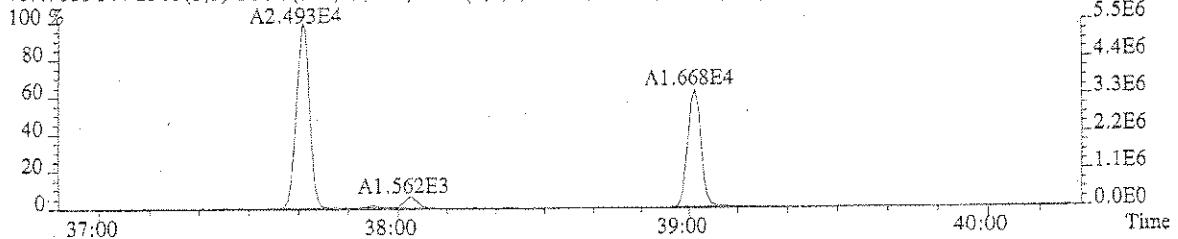


430.9728 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

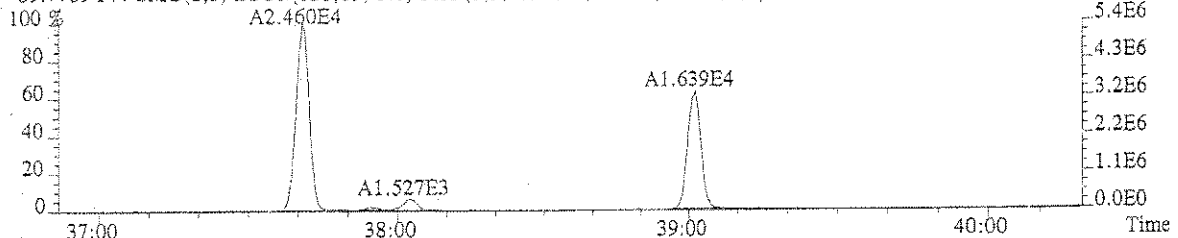


File: U122477 #1-314 Acq: 21-AUG-2007 16:38:22 Probe FI+ Magnet SIR VG BioTech Mass spectf
Sample#1 File Text: CCAL HRCC3 Exp: CCAL HRCC3

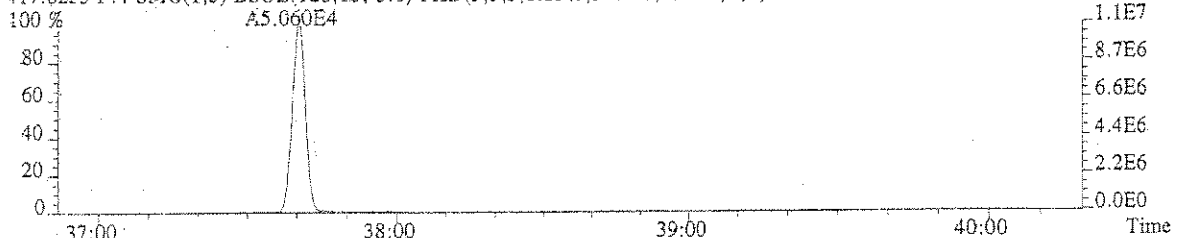
407.7818 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,7808.0,0.50%,F,F)



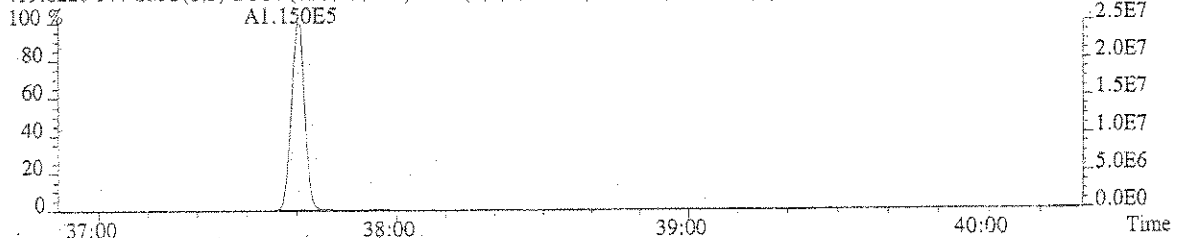
409.7789 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,6052.0,0.50%,F,F)



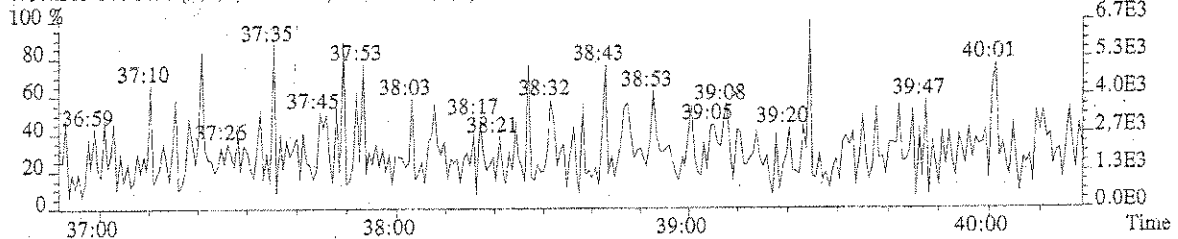
417.8253 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,5272.0,0.50%,F,F)



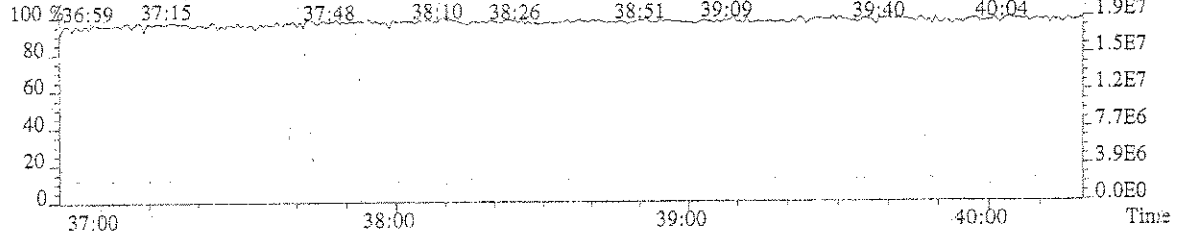
419.8220 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,14676.0,0.50%,F,F)



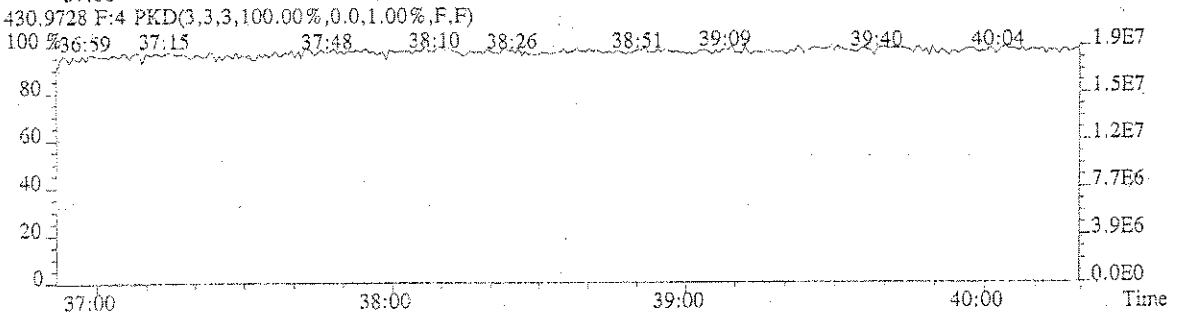
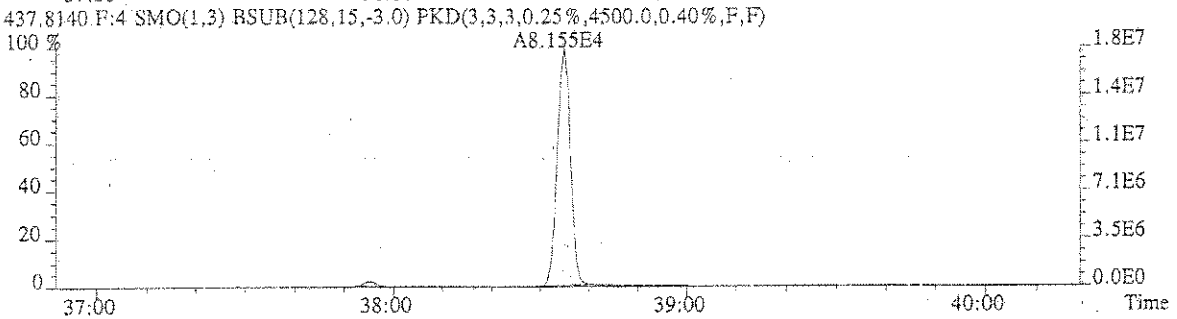
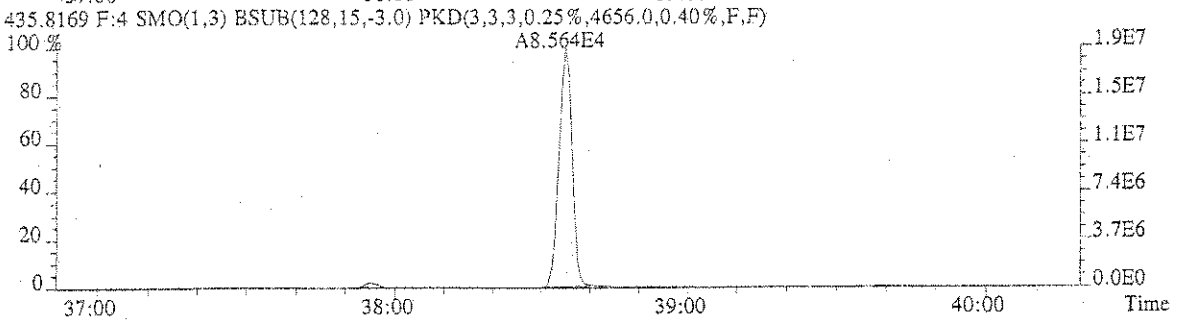
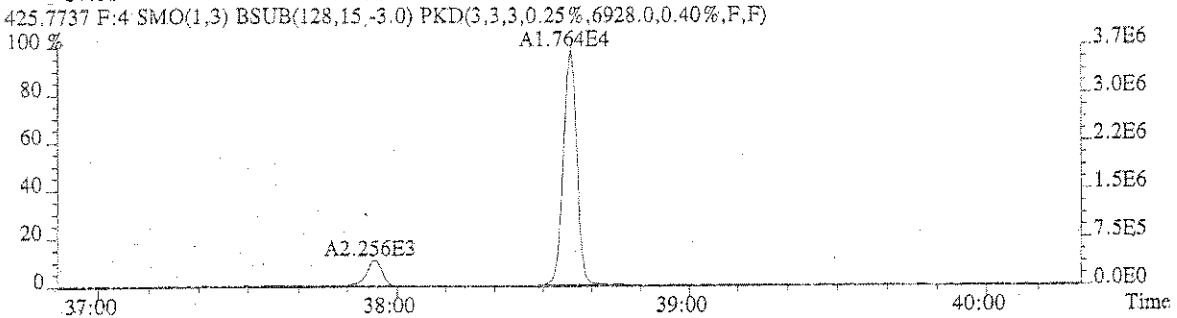
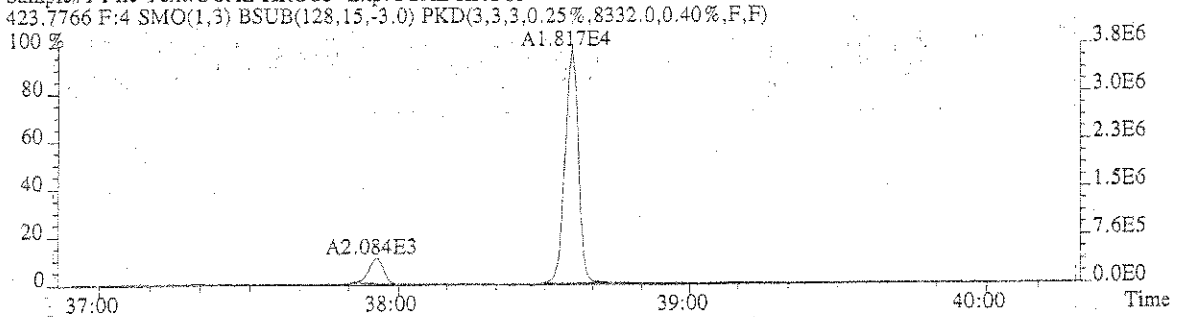
479.7165 F:4 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



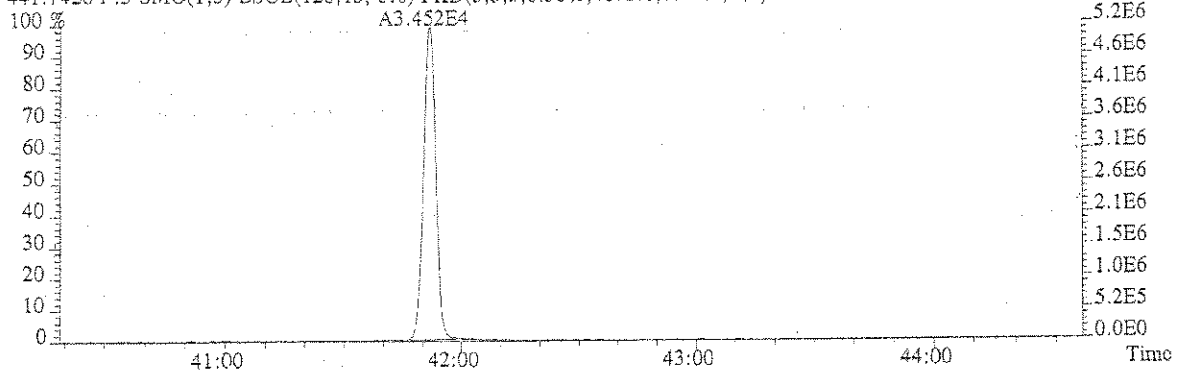
430.9728 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



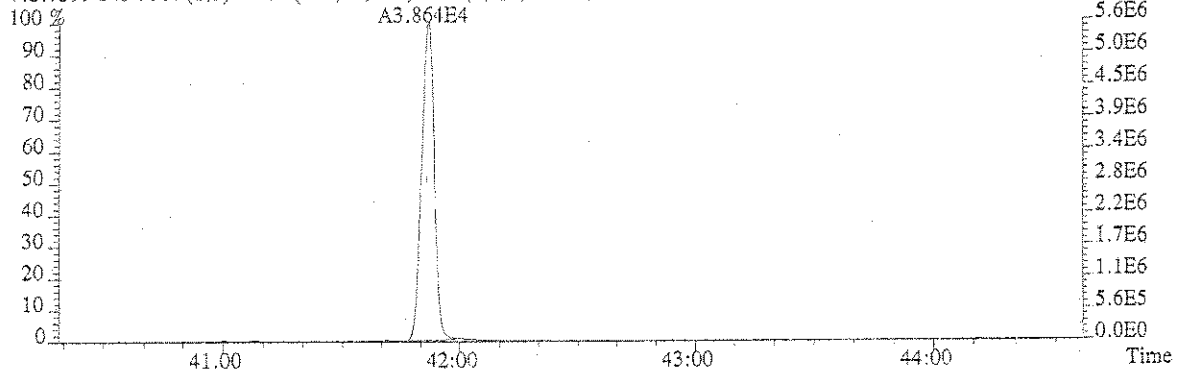
File:U122477 #1-314 Acq:21-AUG-2007 16:38:22 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3



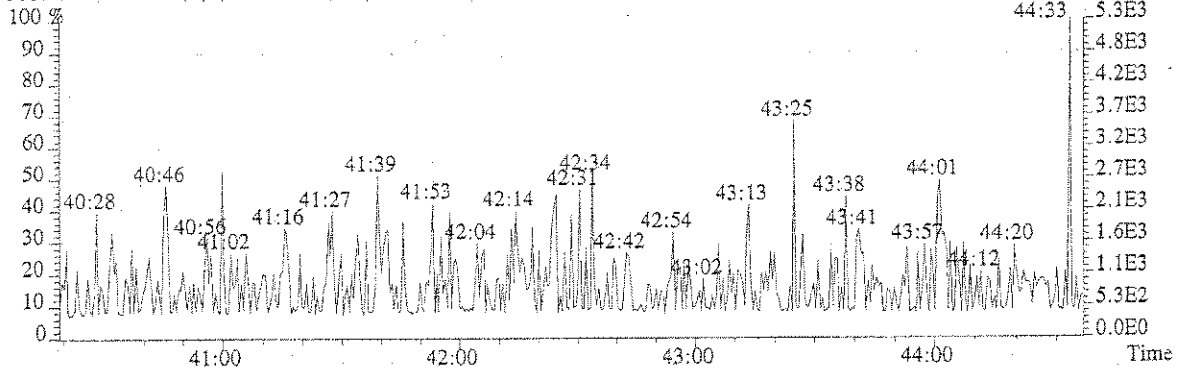
File:U122477 #1-475 Acq:21-AUG-2007 16:38:22 Probe EI+ Magnet SIR VG BioTech Mass spectf
 Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3
 441.7428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,4872.0,0.40%,F,F)



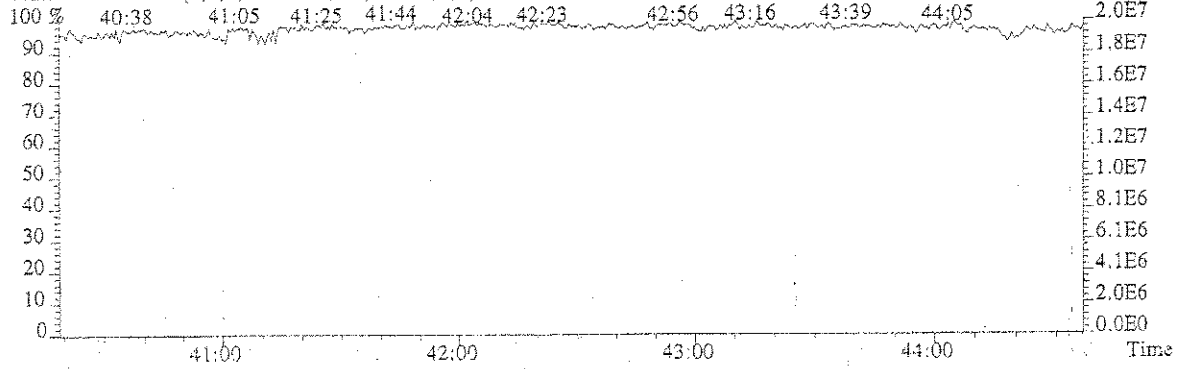
443.7399 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,3888.0,0.40%,F,F)



513.6775 F:5 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



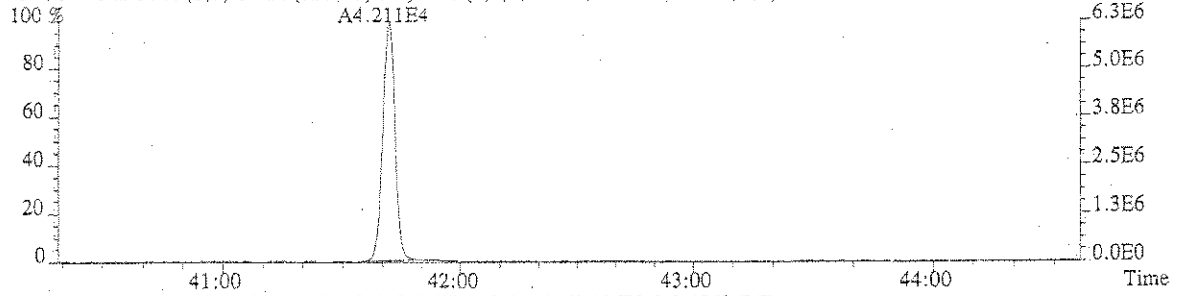
442.9728 F:5 PKD(3,3,3,100.00%,0.0,0.40%,F,F)



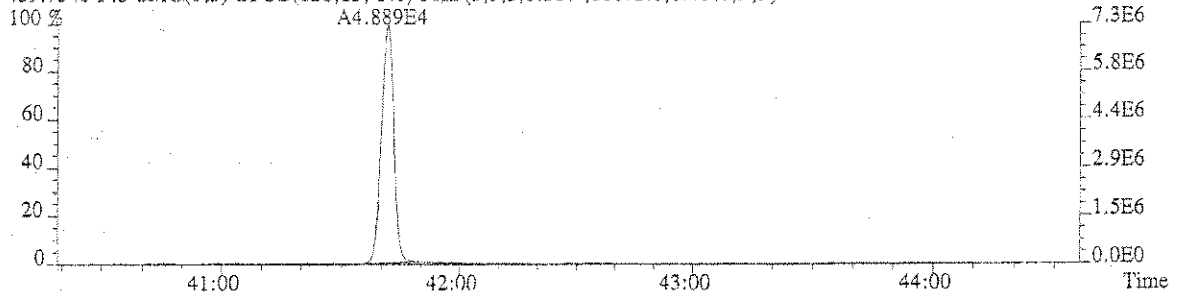
File:U122477 #1-475 Acq:21-AUG-2007 16:38:22 Probe EI+ Magnet SIR VG BioTech Mass spectf

Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3

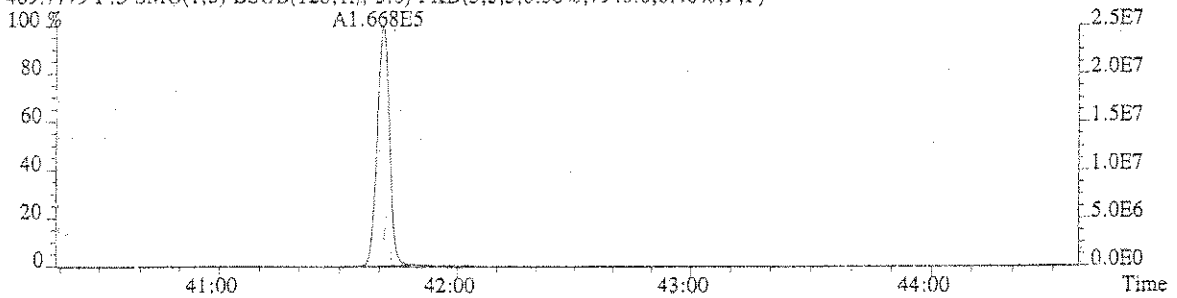
457.7377 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,10184.0,0.40%,F,F)



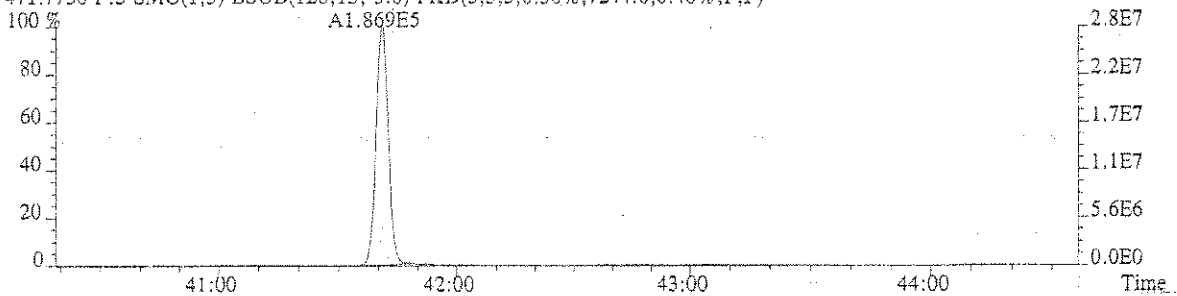
459.7348 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,10672.0,0.40%,F,F)



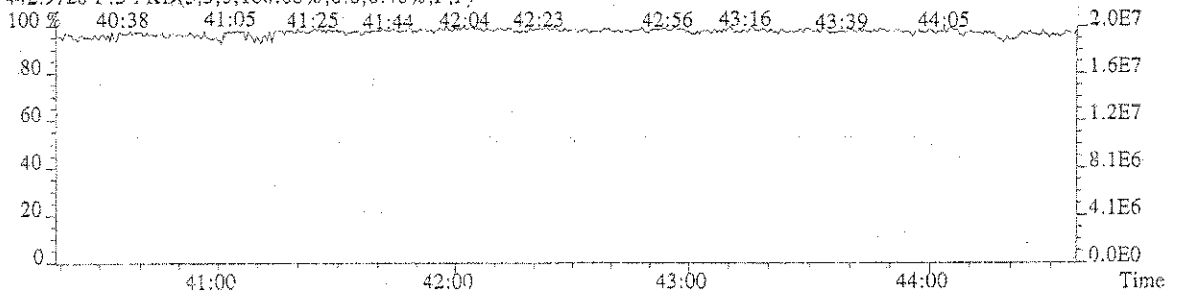
469.7779 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,7940.0,0.40%,F,F)



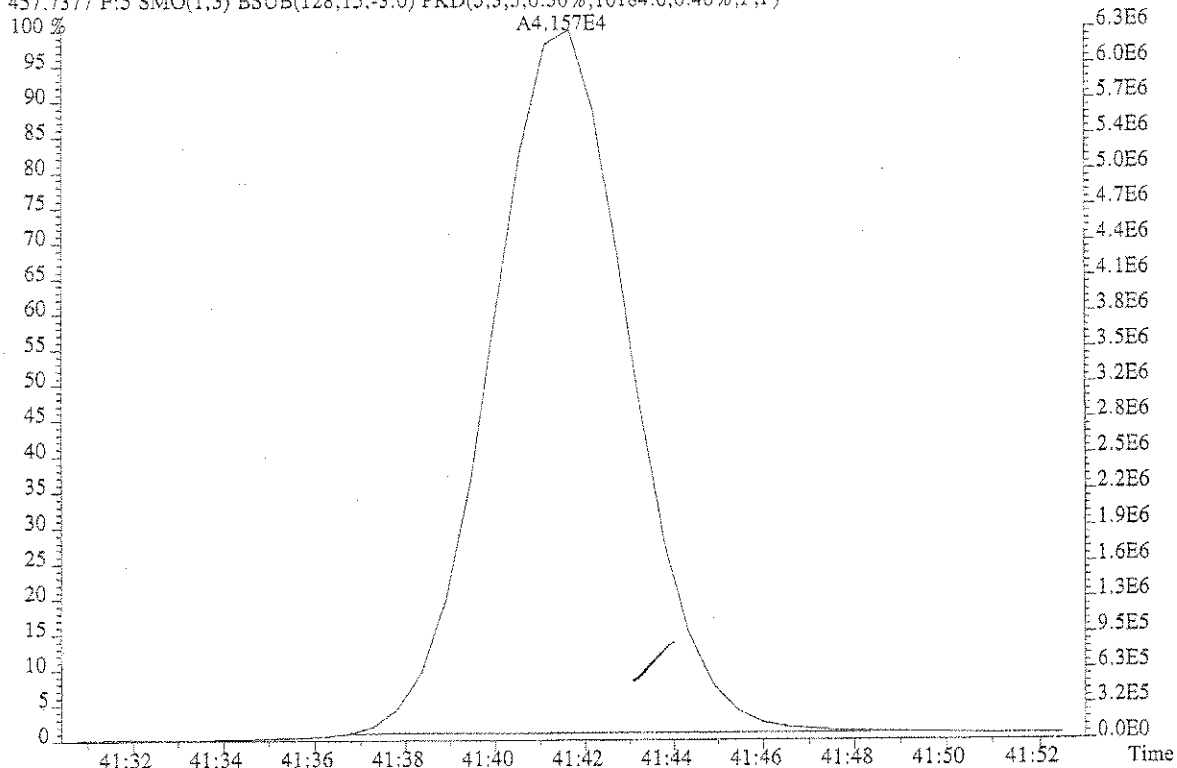
471.7750 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,7244.0,0.40%,F,F)



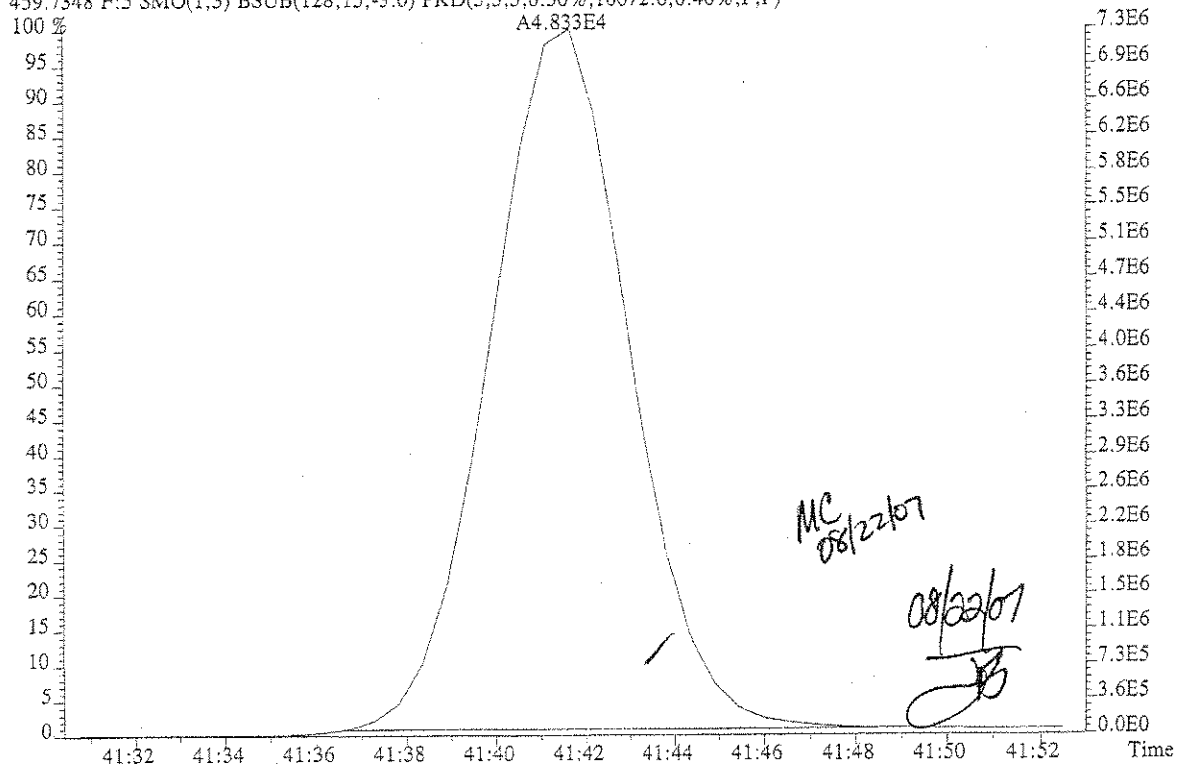
442.9728 F:5 PKD(3,3,3,100.00%,0.0,0.40%,F,F)



File:U122477 #1-475 Acq:21-AUG-2007 16:38:22 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 File Text:CCAL HRCC3 Exp:CCAL HRCC3
457.7377 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,10184.0,0.40%,F,F)



459.7348 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,10672.0,0.40%,F,F)



Initial Calibration

10655 Richmond Avenue, Suite 130-A, Houston, TX 77042
Phone (713)266-1599 Fax (713)266-0130
www.caslab.com

Initial Calibration₂ QC Checklist

ICAL Name: U704282901

Date: 4/2/07

Method: 1613 / 8290 Tetra / TCDD Only / TCDF Conf / 8280 / 613 / M23

Retention Window/Column Performance Check Analyst Second Check

Windows in and first and last eluters labeled	✓	✓
Column Performance shows less than or equal to 25% valley between column specific 2378 isomer and it's closest eluters	✓	✓
No QC ion deflections affect column specific 2378 isomer or it's closest eluters	✓	✓

Initial Calibration Analyst Second Check

Percent RSD within method criteria	✓	✓
All relative abundance ratios meet method criteria	✓	✓
No QC ion deflections of greater than 20%	✓	✓
Mass spectrometer resolution greater than or equal to 10,000 and documented	✓	✓
2378-TCDD elutes at 25 minutes or later on the DB-5 column	✓	✓
Signal-to-noise of all target analytes and their labeled standards at least 10:1.	✓	✓
Valley between labeled 123478 and 123678 HxCDD peaks less than or equal to 50%	N/A	N/A
All Manual Intergrations signed and dated and first and final copies of ical summary included	✓	✓

Analyst: pc

Second QC: lw

SDFC
PCDD/PCDF ANALYTICAL SEQUENCE SUMMARY

Name: Columbia Analytical Services, Houston Contract

Lab Code: TX01411 CASE No.: Client No: SDG No.:

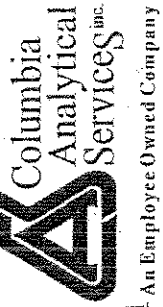
GC Column: DB-5 ID: 0.25 (mm) Instrument ID: AutoSpec-Ultima

Init. Calib. Date: 04/02/07

Init. Calib. Times: 11:25

THE ANALYTICAL SEQUENCE OF STANDARDS, SAMPLES, BLANKS, SPIKES AND
DUPLICATES IS AS FOLLOWS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
WINDOW DEFINE		U120205	2-APR-07	11:25:17
ICAL HRCC1		U120206	2-APR-07	13:56:35
ICAL HRCC2		U120207	2-APR-07	14:42:23
ICAL HRCC3		U120208	2-APR-07	15:34:13
ICAL HRCC4		U120209	2-APR-07	16:23:37
ICAL HRCC5		U120210	2-APR-07	17:13:27



An Employee Owned Company

HRGC/HRMS RUN LOG

CAS HOUSTON 10655 Richmond Avenue, Suite 130-A Houston, TX 77042

Acq Method: 8290 CAY/1/13

Result File: 01704028290I

Archive Tape: _____

GC Method: 8290 CAY/1/17

EDD File: _____

Instrument ID: AutoSpec 1

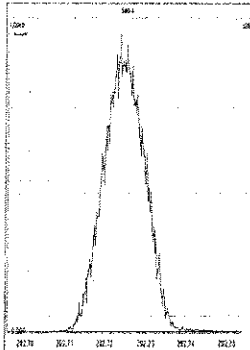
Date	Time	File	CAS ID	Client ID	Batch #	Analyst	Comments	RE
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	09:57	0120201	ER29052-CCS	LAB SPIKE	EB29052			
	1:49	0120202	FR29052-DCS	NOPLAB SPIKE	I			
	2:27	0120203	Test					
	3:15	0120204	CCAL HRCC1	DR-2-2A			use average AF	
4/4/07	11:05	0120205	Wendover Defip	24-90-2				
	13:56	0120206	Ical HRCC1	DS-49-5				
	14:42	0120207	Ical HRCC2	DS-49-4				
	15:34	0120208	Ical HRCC3	DR-2-2A				
	16:23	0120209	Ical HRCC4	DS-49-2				
	17:13	0120210	Ical HRCC5	DS-49-1				
	18:02	0120211	Test					

Reviewed by:

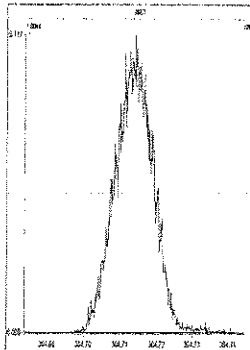
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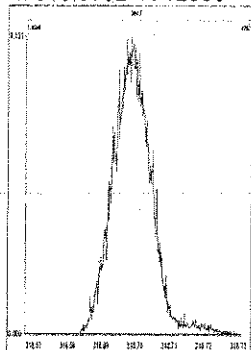
M 292.9824 R 12823



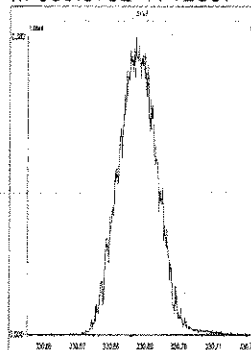
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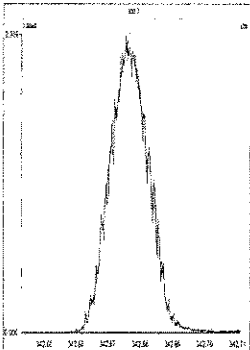
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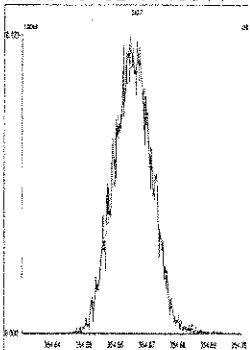
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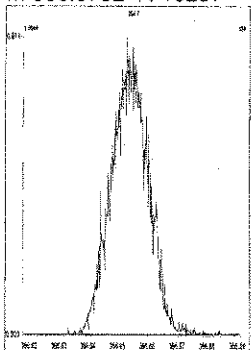
M 342.9792 R 13367



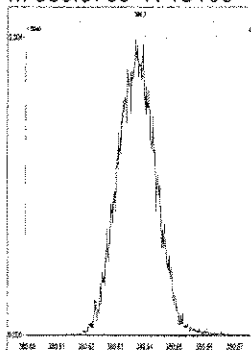
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M 366.9792 R 13297

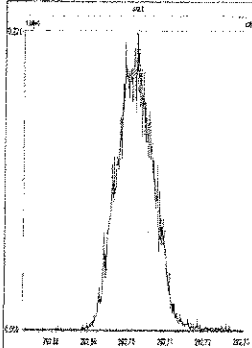


M 380.9760 R 13160

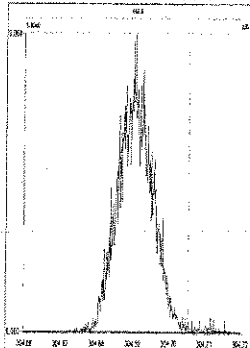


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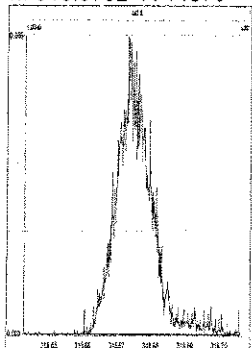
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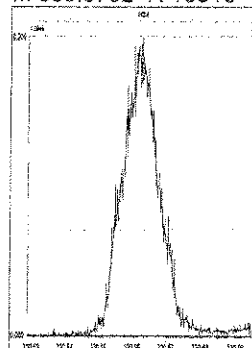
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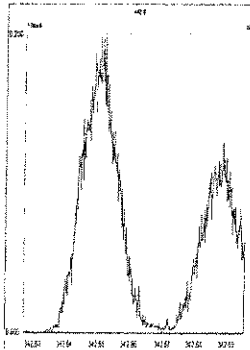
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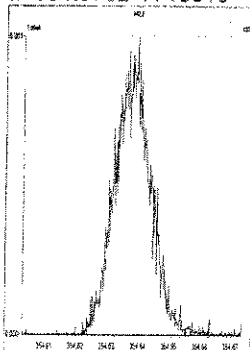
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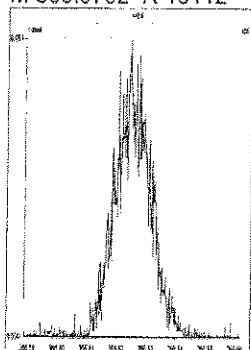
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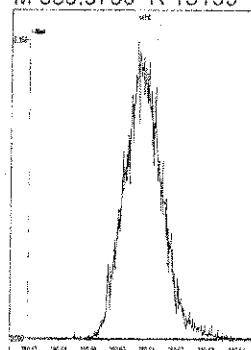
M 354.9792 R 13516



M 366.9792 R 15112



M 380.9760 R 13199



5DFA
WINDOW DEFINING MIX SUMMARY

CLIENT ID

WDM

Lab Name: COLUMBIA ANALYTICAL SERVICESLab Code: CAS

Case No.: _____

SDG No.: _____

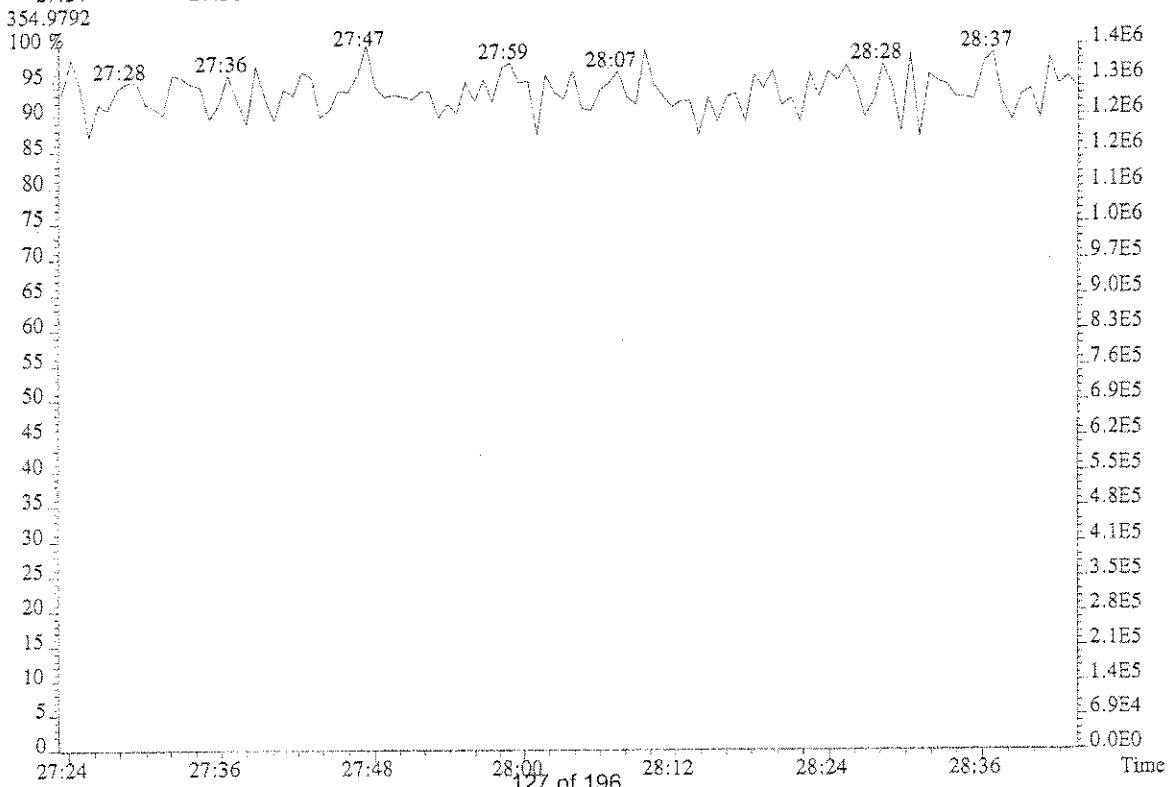
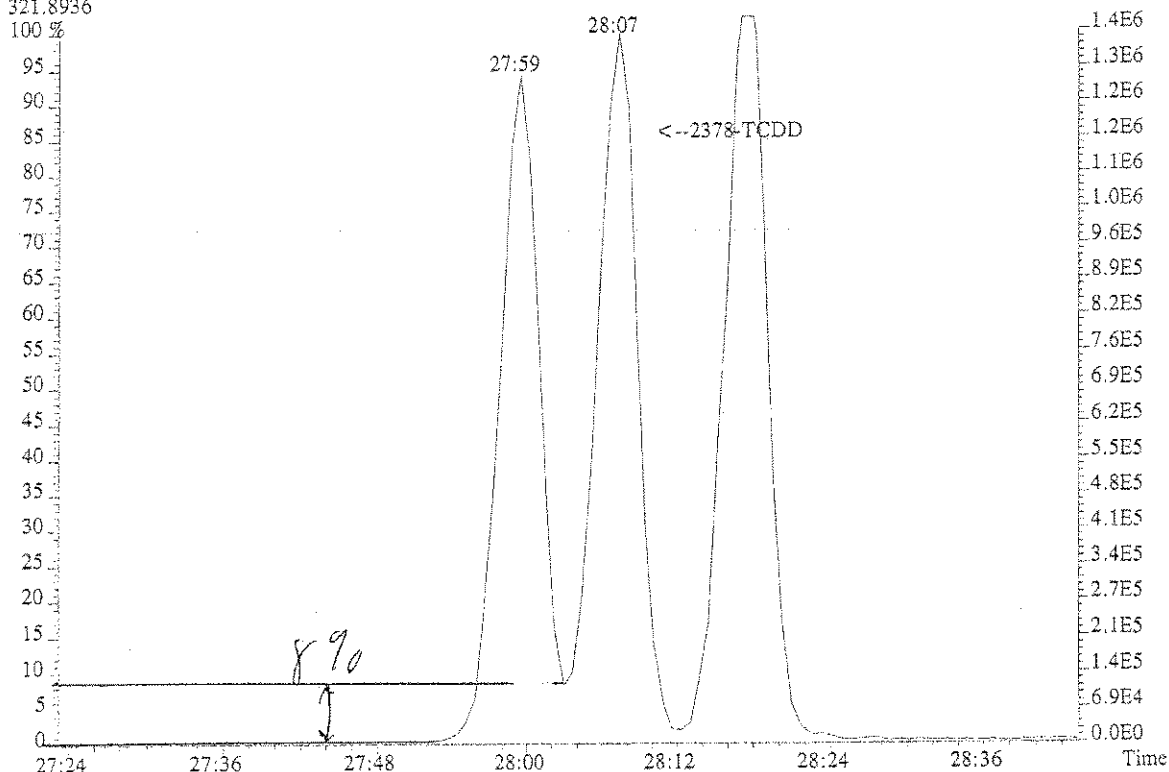
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CONGENER	RT FIRST ELUTING	RT LAST ELUTING
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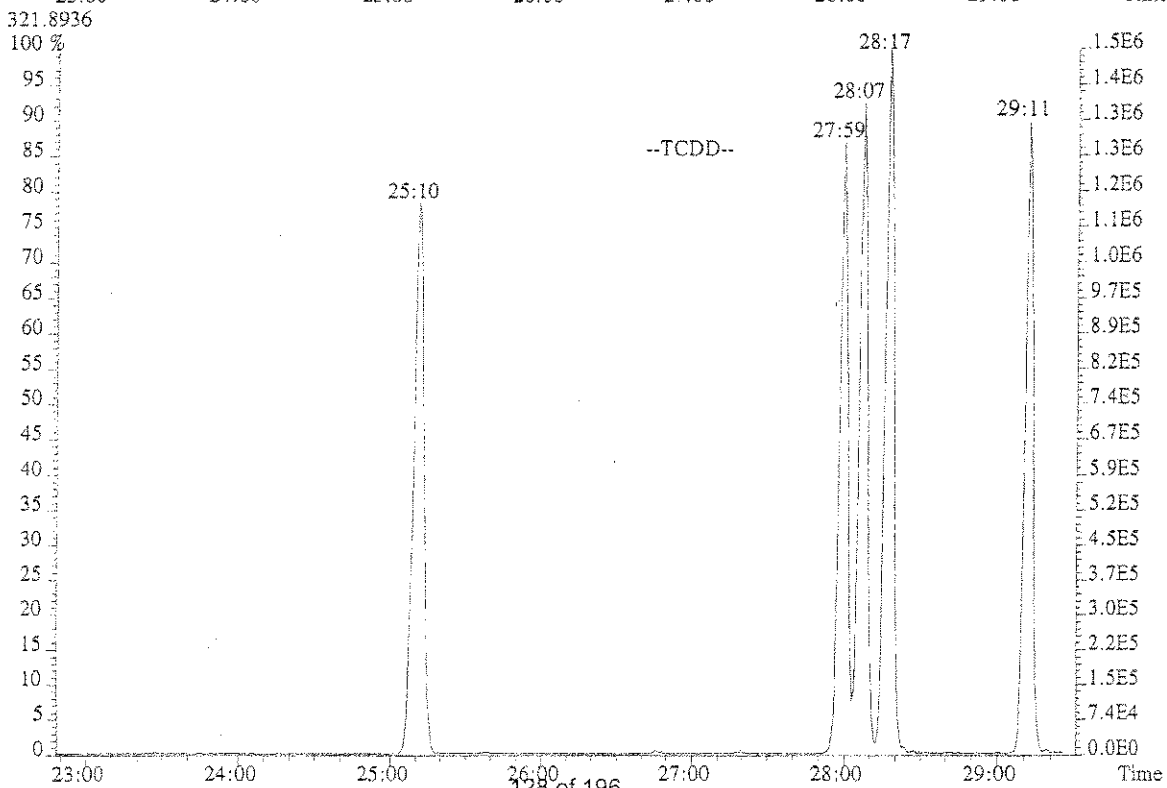
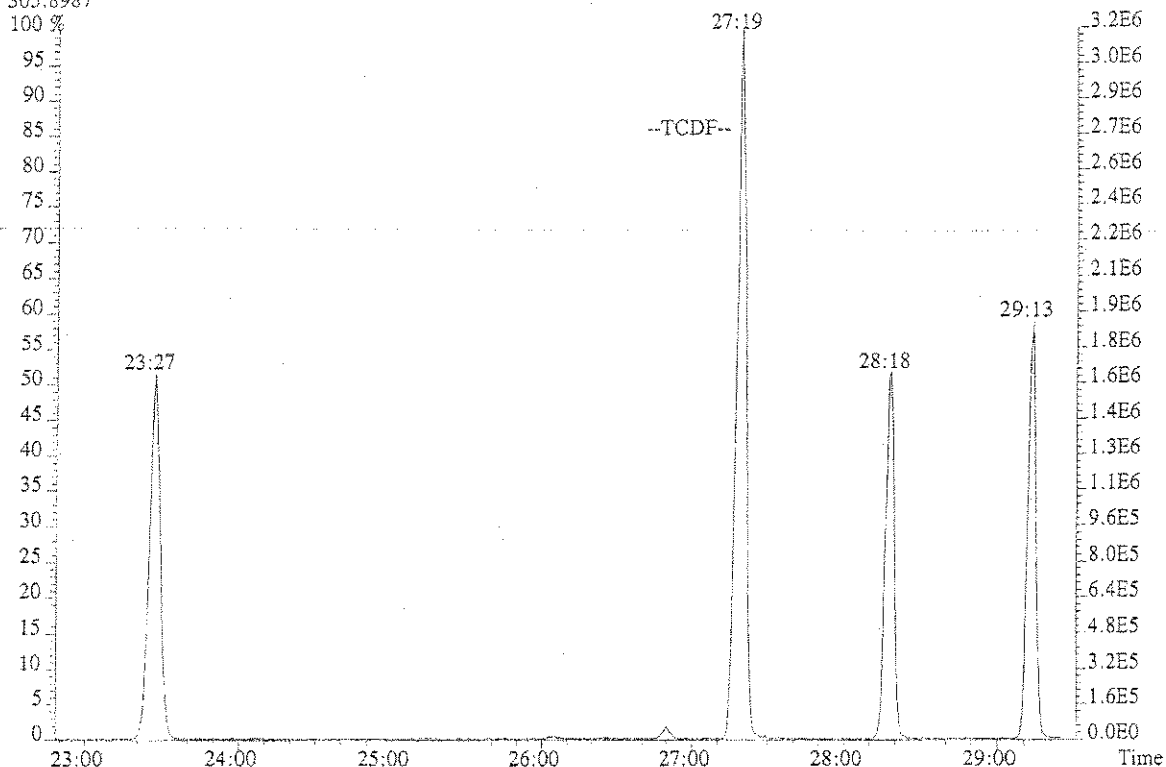
TCDF	23:27	29:13
TCDD	25:10	29:11
PeCDF	29:28	33:15
PeCDD	30:47	33:06
HxCDF	34:06	36:24
HxCDD	34:36	36:04
HpCDF	37:46	39:05
HpCDD	38:01	38:40

% Valley 2378-TCDD: 8%

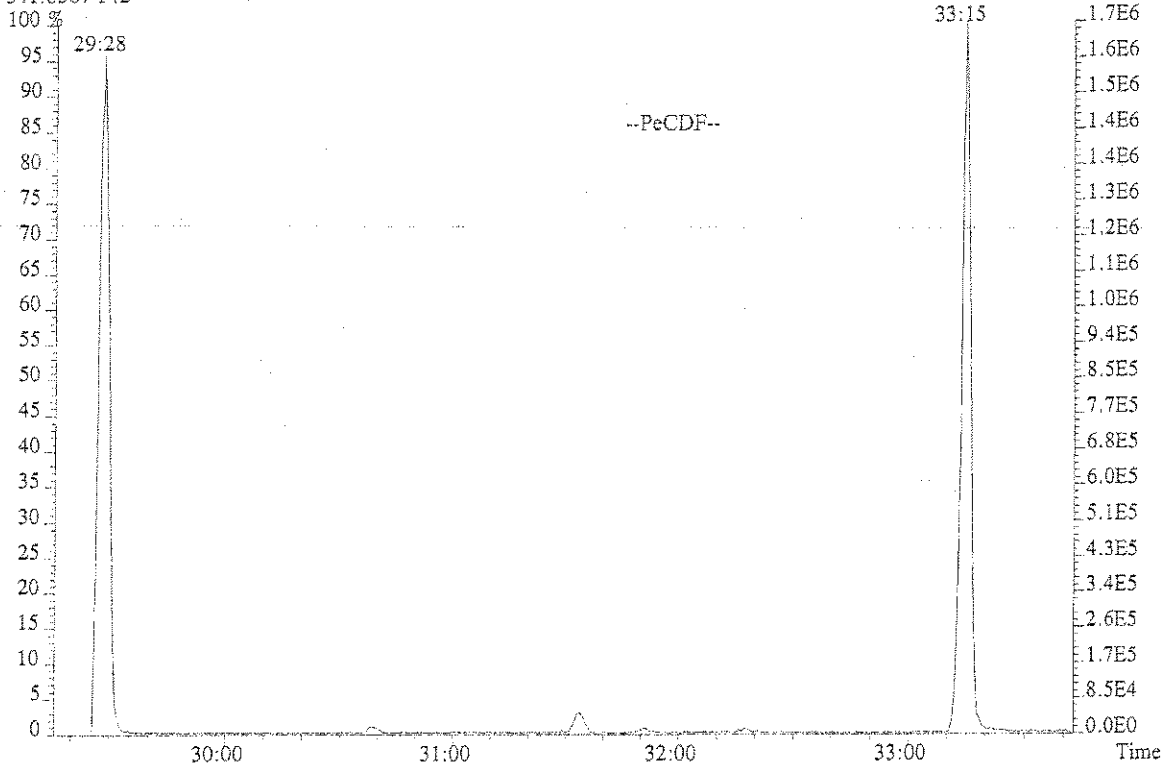
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Sample#1 Exp:WINDOW DEFINE
321.8936



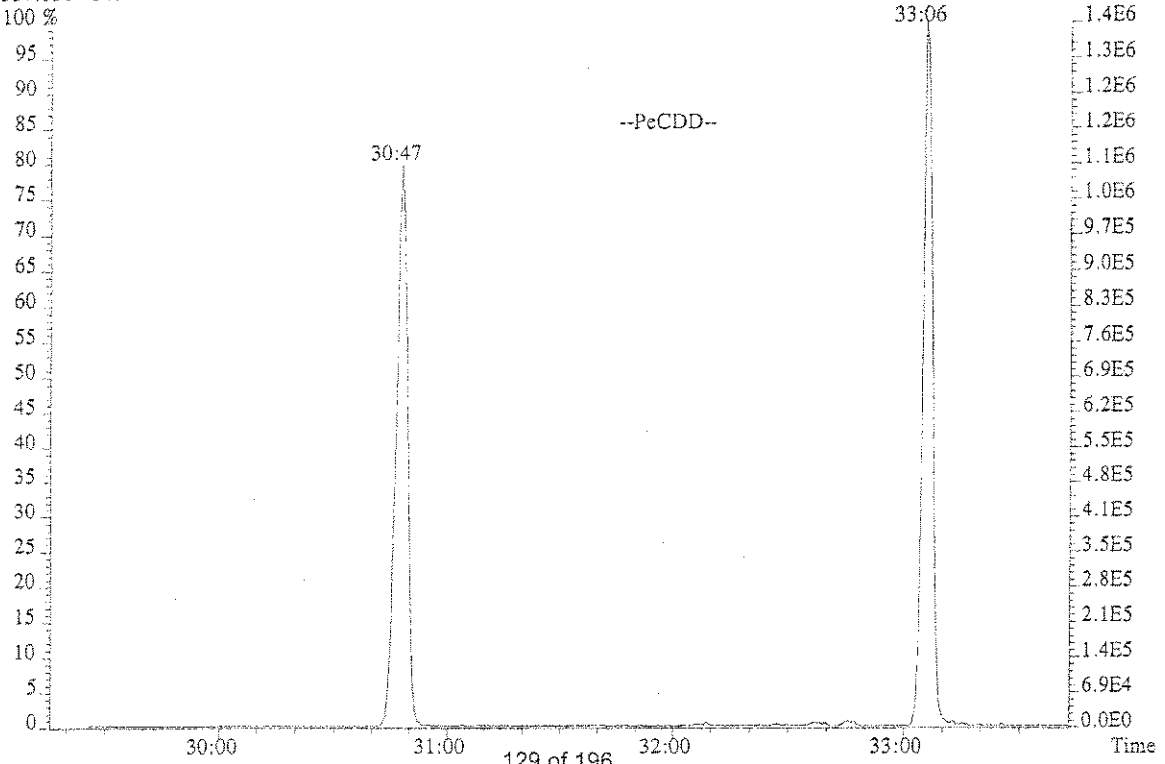
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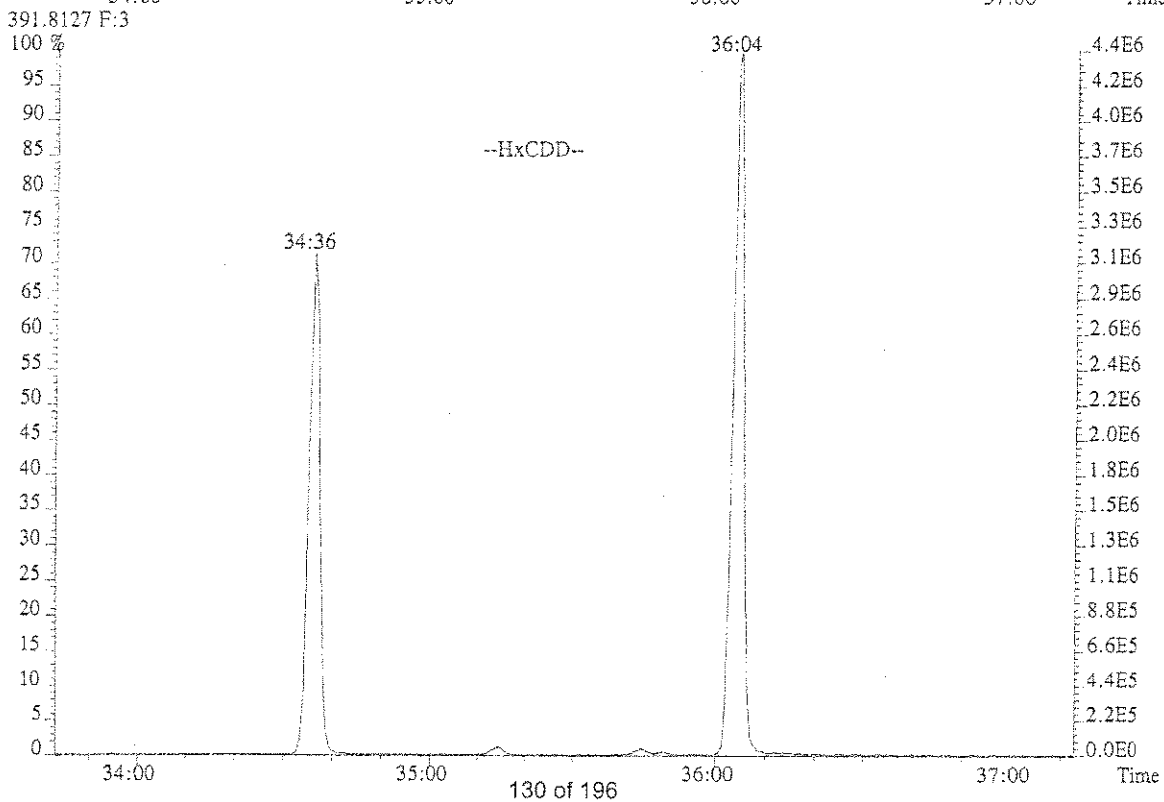
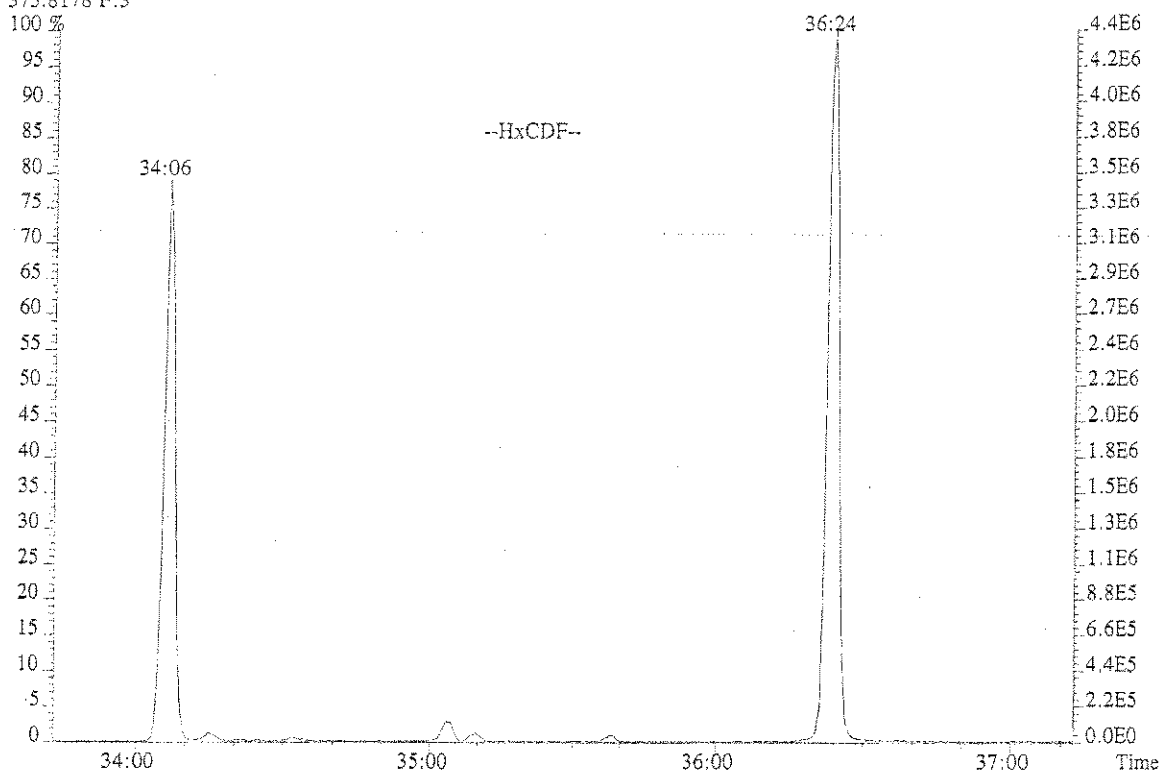
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Sample#1 Exp:WINDOW DEFINE
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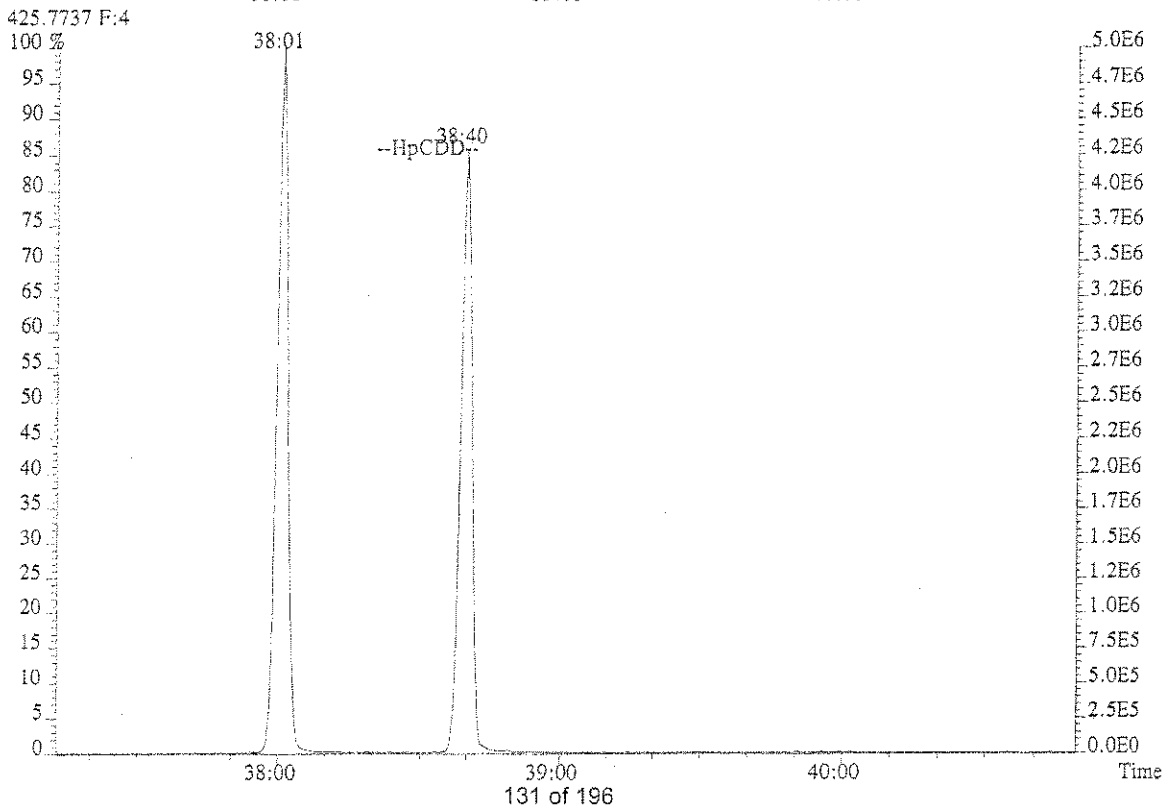
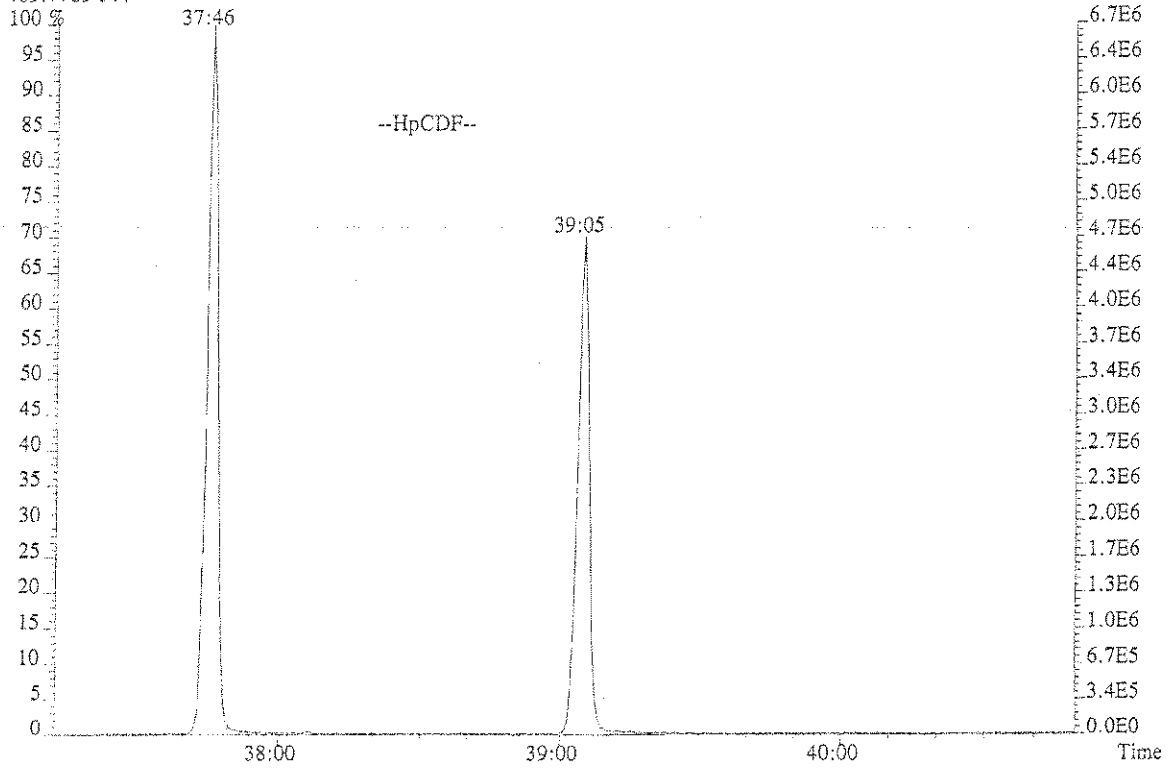
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Sample#1 Exp:WINDOW DEFINE
375.8178 F:3



File:U120205 #1-327 Acq: 2-APR-2007 11:25:17 Probe EI+ Magnet SIR VG BioTech Mass specif
Sample#1 Exp:WINDOW DEFINE
409.7789 F:4



FORM 3A
PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SDG No.:

Initial Calibration Date: 04/02/07

Instrument ID: AutoSpec-Ultima GC Column ID: DB-5

HRCC1 Data Filename: U120206 HRCC4 Data Filename: U120209

HRCC2 Data Filename: U120207 HRCC5 Data Filename: U120210

HRCC3 Data Filename: U120208

	RELATIVE RESPONSE (RR)					MEAN RR	Cv (RSD) (1)
	HRCC1	HRCC2	HRCC3	HRCC4	HRCC5		
NATIVE ANALYTES							
2,3,7,8-TCDD	0.97	0.93	0.98	0.96	0.97	0.96	2.08
1,2,3,7,8-PeCDD	0.86	0.89	0.92	0.93	0.95	0.91	3.92
1,2,3,4,7,8-HxCDD	1.02	1.03	0.97	1.05	1.10	1.03	4.60
1,2,3,6,7,8-HxCDD	1.02	1.07	0.99	1.15	1.10	1.07	6.03
1,2,3,7,8,9-HxCDD	0.95	0.98	0.94	1.03	1.04	0.99	4.60
1,2,3,4,6,7,8-HpCDD	0.91	0.91	0.93	0.93	0.96	0.93	2.31
OCDD	1.04	1.04	0.99	1.01	1.01	1.02	2.11
2,3,7,8-TCDF	0.84	0.85	0.99	1.17	0.93	0.96	13.87
1,2,3,7,8-PeCDF	0.87	0.88	0.93	0.92	0.95	0.91	3.88
2,3,4,7,8-PeCDF	0.89	0.89	0.98	0.94	1.02	0.95	6.13
1,2,3,4,7,8-HxCDF	1.12	1.11	1.22	1.17	1.21	1.17	4.41
1,2,3,6,7,8-HxCDF	1.07	1.13	1.19	1.19	1.13	1.14	4.33
1,2,3,7,8,9-HxCDF	0.81	0.82	0.86	0.88	0.93	0.86	5.64
2,3,4,6,7,8-HxCDF	0.98	1.01	1.07	1.08	1.03	1.03	4.01
1,2,3,4,6,7,8-HpCDF	1.30	1.37	1.37	1.37	1.38	1.36	2.32
1,2,3,4,7,8,9-HpCDF	0.96	0.99	1.02	1.03	1.11	1.02	5.51
OCDF	1.05	1.07	1.08	1.11	1.12	1.09	2.77

(1) The %RSD for the 17 unlabeled standard must not exceed +/- 20%, see Section 7.7.2.1, Method 8290.

8290F3A

FORM 3B
PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SDG No.:

Initial Calibration Date: 04/02/07

Instrument ID: AutoSpec-Ultima GC Column ID: DB-5

HCC1 Data Filename: U120206 HCC4 Data Filename: U120209

HCC2 Data Filename: U120207 HCC5 Data Filename: U120210

HCC3 Data Filename: U120208

Labeled Compounds	RELATIVE RESPONSE (RR)					MEAN	Cv
	HRCC1	HRCC2	HRCC3	HRCC4	HRCC5	RR	(RSD) (1)
13C-2,3,7,8-TCDD	0.89	0.89	0.85	0.96	0.91	0.90	4.36
13C-1,2,3,7,8-PeCDD	1.03	1.00	1.03	1.13	1.09	1.06	4.97
13C-1,2,3,6,7,8-HxCDD	1.01	1.02	0.98	1.01	1.02	1.01	1.37
13C-1,2,3,4,6,7,8-HpCDD	1.10	1.09	0.99	1.15	1.15	1.09	6.01
13C-OCDD	1.15	1.13	1.03	1.24	1.31	1.17	9.04
13C-2,3,7,8-TCDF	1.23	1.23	1.14	1.08	1.30	1.20	7.34
13C-1,2,3,7,8-PeCDF	1.46	1.47	1.42	1.66	1.57	1.52	6.43
13C-1,2,3,4,7,8-HxCDF	1.30	1.31	1.15	1.32	1.33	1.28	5.73
13C-1,2,3,4,6,7,8-HpCDF	1.11	1.10	0.99	1.19	1.17	1.11	7.05
CLEANUP STANDARD							
37Cl-2,3,7,8-TCDD	0.84	0.82	0.83	0.91	0.90	0.86	5.13

(1) The %RSD for the nine labeled reference compounds must not exceed +/- 30%, see Section 7.7.2.1, Method 8290.

8290F3B

FORM 3C
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SDG No.:

Initial Calibration Date: 04/02/07

Instrument ID: AutoSpec-Ultima GC Column ID: DB-5

HCC1 Data Filename: U120206 HCC4 Data Filename: U120209

HCC2 Data Filename: U120207 HCC5 Data Filename: U120210

HCC3 Data Filename: U120208

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUNDANCE RATIO					QC LIMITS (2)
		HRCC1	HRCC2	HRCC3	HRCC4	HRCC5	
2,3,7,8-TCDD	M/M+2	0.85	0.80	0.77	0.79	0.79	0.65-0.89
1,2,3,7,8-PeCDD	M+2/M+4	1.68	1.49	1.62	1.61	1.57	1.32-1.78
1,2,3,4,7,8-HxCDD	M+2/M+4	1.35	1.42	1.30	1.30	1.30	1.05-1.43
1,2,3,6,7,8-HxCDD	M+2/M+4	1.37	1.21	1.14	1.26	1.30	1.05-1.43
1,2,3,7,8,9-HxCDD	M+2/M+4	1.19	1.26	1.19	1.30	1.31	1.05-1.43
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.14	1.06	1.05	1.05	1.03	0.88-1.20
OCDD	M+2/M+4	0.91	0.89	0.89	0.89	0.91	0.76-1.02
2,3,7,8-TCDF	M/M+2	0.71	0.87	0.75	0.79	0.79	0.65-0.89
1,2,3,7,8-PeCDF	M+2/M+4	1.52	1.62	1.60	1.58	1.56	1.32-1.78
2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.46	1.57	1.58	1.57	1.32-1.78
1,2,3,4,7,8-HxCDF	M+2/M+4	1.24	1.25	1.30	1.27	1.21	1.05-1.43
1,2,3,6,7,8-HxCDF	M+2/M+4	1.18	1.29	1.24	1.24	1.21	1.05-1.43
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.28	1.24	1.27	1.23	1.05-1.43
2,3,4,6,7,8-HxCDF	M+2/M+4	1.11	1.22	1.22	1.27	1.22	1.05-1.43
1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.92	0.94	1.02	0.99	0.99	0.88-1.20
1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.93	1.08	0.98	1.01	1.01	0.88-1.20
OCDF	M+2/M+4	0.88	0.97	0.92	0.90	0.93	0.76-1.02

(1) See Table 6, Method 8290, for m/z specifications.

(2) Ion Abundance Ratio Control Limits from Table 8, Method 8290.

8290F3C

FORM 3D
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SDG No.:

Initial Calibration Date: 04/02/07

Instrument ID: AutoSpec-Ultima GC Column ID: DB-5

HRCC1 Data Filename: U120206 HRCC4 Data Filename: U120209

HRCC2 Data Filename: U120207 HRCC5 Data Filename: U120210

HRCC3 Data Filename: U120208

Labeled Compounds	M/Z'S FORMING RATIO	ION ABUNDANCE RATIO					QC LIMITS (2)
		HRCC1	HRCC2	HRCC3	HRCC4	HRCC5	
13C-2,3,7,8-TCDD	M/M+2	0.74	0.80	0.81	0.79	0.77	0.65-0.89
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.57	1.53	1.57	1.60	1.55	1.32-1.78
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.24	1.25	1.23	1.24	1.05-1.43
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	1.05	1.04	1.05	1.04	0.88-1.20
13C-OCDD	M+2/M+4	0.91	0.89	0.89	0.89	0.90	0.76-1.02
13C-2,3,7,8-TCDF	M/M+2	0.83	0.83	0.84	0.85	0.80	0.65-0.89
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.61	1.61	1.60	1.61	1.57	1.32-1.78
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.54	0.51	0.54	0.52	0.43-0.59
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.43	0.44	0.43	0.42	0.42	0.37-0.51

(1) See Table 6, Method 8290, for m/z specifications. Method 8290.

(2) Ion Abundance Ratio Control Limits from Table 8,

Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
ICAL HRCC1

Run #1 Filename U120206 Samp: 1 Inj: 1 Acquired: 2-APR-07 13:56:35
Processed: 3-APR-07 08:05:38 Sample ID: ICAL HRCC1

Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?
1 Unk	2,3,7,8-TCDF	27:17	1.472e+02	2.085e+02	0.71	yes	no
2 Unk	1,2,3,7,8-PeCDF	31:33	6.662e+02	4.371e+02	1.52	yes	no
3 Unk	2,3,4,7,8-PeCDF	32:16	6.883e+02	4.342e+02	1.59	yes	no
4 Unk	1,2,3,4,7,8-HxCDF	35:03	6.333e+02	5.087e+02	1.24	yes	no
5 Unk	1,2,3,6,7,8-HxCDF	35:09	5.925e+02	5.036e+02	1.18	yes	no
6 Unk	2,3,4,6,7,8-HxCDF	35:37	5.273e+02	4.734e+02	1.11	yes	no
7 Unk	1,2,3,7,8,9-HxCDF	36:19	4.625e+02	3.693e+02	1.25	yes	no
8 Unk	1,2,3,4,6,7,8-HpCDF	37:45	5.479e+02	5.962e+02	0.92	yes	no
9 Unk	1,2,3,4,7,8,9-HpCDF	39:04	4.038e+02	4.361e+02	0.93	yes	no
10 Unk	OCDF	41:51	8.946e+02	1.017e+03	0.88	yes	no
11 Unk	2,3,7,8-TCDD	28:06	1.361e+02	1.610e+02	0.85	yes	no
12 Unk	1,2,3,7,8-PeCDD	32:37	4.789e+02	2.852e+02	1.68	yes	no
13 Unk	1,2,3,4,7,8-HxCDD	35:44	4.629e+02	3.438e+02	1.35	yes	no
14 Unk	1,2,3,6,7,8-HxCDD	35:48	4.700e+02	3.437e+02	1.37	yes	no
15 Unk	1,2,3,7,8,9-HxCDD	36:06	4.124e+02	3.452e+02	1.19	yes	no
16 Unk	1,2,3,4,6,7,8-HpCDD	38:39	4.174e+02	3.659e+02	1.14	yes	no
17 Unk	OCDD	41:41	9.068e+02	9.912e+02	0.91	yes	no
18 IS	13C-2,3,7,8-TCDF	27:16	9.664e+03	1.163e+04	0.83	yes	no
19 IS	13C-1,2,3,7,8-PeCDF	31:32	1.559e+04	9.670e+03	1.61	yes	no
20 IS	13C-1,2,3,4,7,8-HxCDF	35:02	1.754e+04	3.367e+04	0.52	yes	no
21 IS	13C-1,2,3,4,6,7,8-HpCDF	37:44	1.328e+04	3.059e+04	0.43	yes	no
22 IS	13C-2,3,7,8-TCDD	28:04	6.525e+03	8.807e+03	0.74	yes	no
23 IS	13C-1,2,3,7,8-PeCDD	32:36	1.082e+04	6.910e+03	1.57	yes	no
24 IS	13C-1,2,3,6,7,8-HxCDD	35:48	2.195e+04	1.777e+04	1.24	yes	no
25 IS	13C-1,2,3,4,6,7,8-HpCDD	38:38	2.214e+04	2.100e+04	1.05	yes	no
26 IS	13C-OCDD	41:41	4.327e+04	4.770e+04	0.91	yes	no
27 RS/RT	13C-1,2,3,4-TCDD	27:52	7.424e+03	9.849e+03	0.75	yes	no
28 RS/RT	13C-1,2,3,7,8,9-HxCDD	36:05	2.180e+04	1.758e+04	1.24	yes	no
29 C/Up	37Cl-2,3,7,8-TCDD	28:06	2.889e+02				

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Columbia Analytical Services, Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
ICAL HRCC1

Run #1 Filename U120206 Samp: 1 Inj: 1 Acquired: 2-APR-07 13:56:35

Processed: 3-APR-07 08:05:38 LAB. ID: ICAL HRCC1

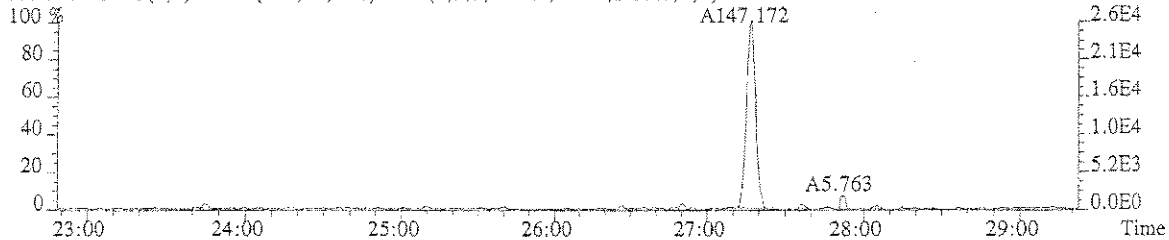
	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2,3,7,8-TCDF	2.59e+04	2.04e+02	1.3e+02	3.13e+04	2.28e+02	1.4e+02
2	1,2,3,7,8-PeCDF	1.33e+05	3.44e+02	3.9e+02	8.48e+04	2.84e+02	3.0e+02
3	2,3,4,7,8-PeCDF	1.36e+05	3.44e+02	4.0e+02	8.66e+04	2.84e+02	3.1e+02
4	1,2,3,4,7,8-HxCDF	1.46e+05	3.20e+02	4.6e+02	1.15e+05	2.60e+02	4.4e+02
5	1,2,3,6,7,8-HxCDF	1.34e+05	3.20e+02	4.2e+02	1.04e+05	2.60e+02	4.0e+02
6	2,3,4,6,7,8-HxCDF	1.13e+05	3.20e+02	3.5e+02	1.01e+05	2.60e+02	3.9e+02
7	1,2,3,7,8,9-HxCDF	9.79e+04	3.20e+02	3.1e+02	7.92e+04	2.60e+02	3.0e+02
8	1,2,3,4,6,7,8-HpCDF	1.15e+05	5.76e+02	2.0e+02	1.35e+05	2.36e+02	5.7e+02
9	1,2,3,4,7,8,9-HpCDF	8.01e+04	5.76e+02	1.4e+02	8.63e+04	2.36e+02	3.7e+02
10	OCDF	1.33e+05	3.12e+02	4.2e+02	1.42e+05	3.88e+02	3.7e+02
11	2,3,7,8-TCDD	2.43e+04	2.24e+02	1.1e+02	2.73e+04	2.08e+02	1.3e+02
12	1,2,3,7,8-PeCDD	9.82e+04	3.80e+02	2.6e+02	5.65e+04	2.64e+02	2.1e+02
13	1,2,3,4,7,8-HxCDD	9.94e+04	4.92e+02	2.0e+02	7.50e+04	3.48e+02	2.2e+02
14	1,2,3,6,7,8-HxCDD	1.04e+05	4.92e+02	2.1e+02	8.00e+04	3.48e+02	2.3e+02
15	1,2,3,7,8,9-HxCDD	8.38e+04	4.92e+02	1.7e+02	7.62e+04	3.48e+02	2.2e+02
16	1,2,3,4,6,7,8-HpCDD	8.83e+04	3.64e+02	2.4e+02	7.82e+04	1.96e+02	4.0e+02
17	OCDD	1.30e+05	6.32e+02	2.1e+02	1.56e+05	5.40e+02	2.9e+02
18	13C-2,3,7,8-TCDF	1.59e+06	4.24e+02	3.7e+03	1.95e+06	4.28e+02	4.6e+03
19	13C-1,2,3,7,8-PeCDF	2.99e+06	3.24e+02	9.2e+03	1.88e+06	2.88e+02	6.5e+03
20	13C-1,2,3,4,7,8-HxCDF	3.93e+06	3.04e+02	1.3e+04	7.41e+06	3.28e+02	2.3e+04
21	13C-1,2,3,4,6,7,8-HpCDF	2.89e+06	1.08e+03	2.7e+03	6.74e+06	2.02e+03	3.3e+03
22	13C-2,3,7,8-TCDD	1.16e+06	8.04e+02	1.4e+03	1.54e+06	2.32e+02	6.6e+03
23	13C-1,2,3,7,8-PeCDD	2.21e+06	2.24e+02	9.9e+03	1.39e+06	3.60e+02	3.9e+03
24	13C-1,2,3,6,7,8-HxCDD	4.98e+06	3.64e+02	1.4e+04	4.06e+06	5.04e+02	8.1e+03
25	13C-1,2,3,4,6,7,8-HpCDD	4.62e+06	5.68e+02	8.1e+03	4.41e+06	4.72e+02	9.3e+03
26	13C-OCDD	6.64e+06	3.92e+02	1.7e+04	7.34e+06	2.40e+02	3.1e+04
27	13C-1,2,3,4-TCDD	1.30e+06	8.04e+02	1.6e+03	1.73e+06	2.32e+02	7.5e+03
28	13C-1,2,3,7,8,9-HxCDD	4.85e+06	3.64e+02	1.3e+04	3.88e+06	5.04e+02	7.7e+03
29	37Cl-2,3,7,8-TCDD	5.36e+04	2.12e+02	2.5e+02			

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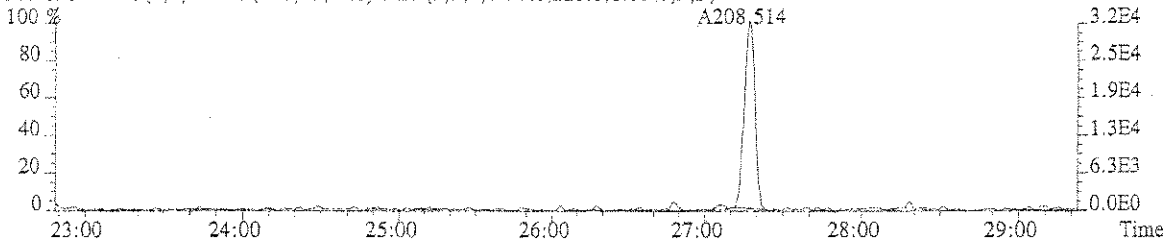
File:U120206 #1-548 Acq: 2-APR-2007 13:56:35 Probe EI+ Magnet SIR VG BioTech Mass spectr

Sample#1 Exp:ICAL HRCC1

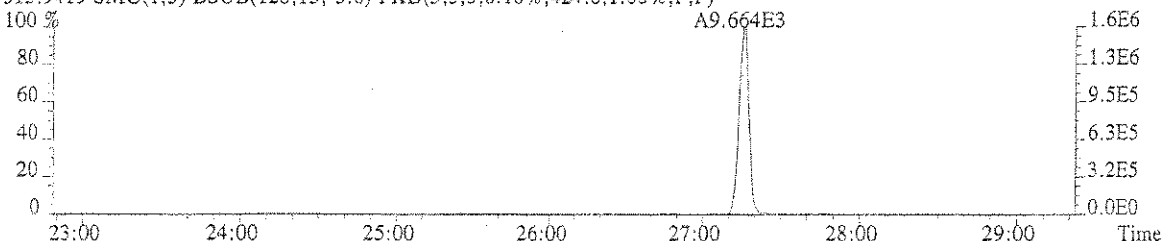
303.9016 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,204.0,1.00%,F,F)



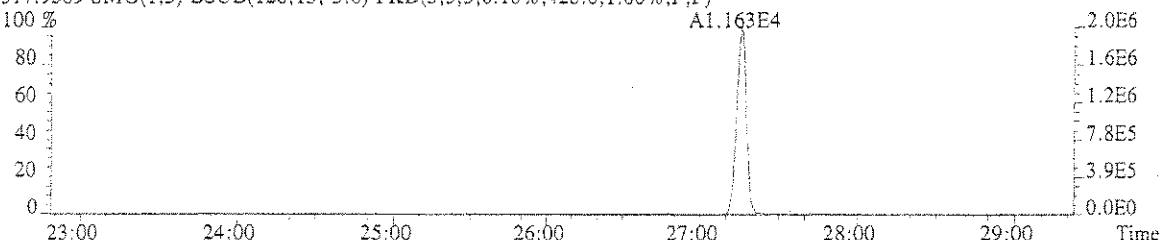
305.8987 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,228.0,1.00%,F,F)



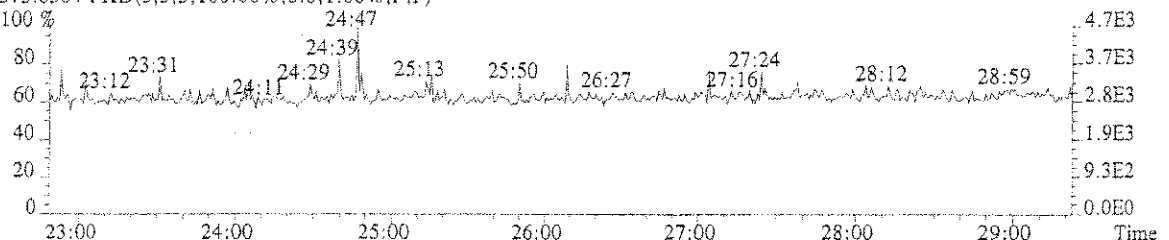
315.9419 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,424.0,1.00%,F,F)



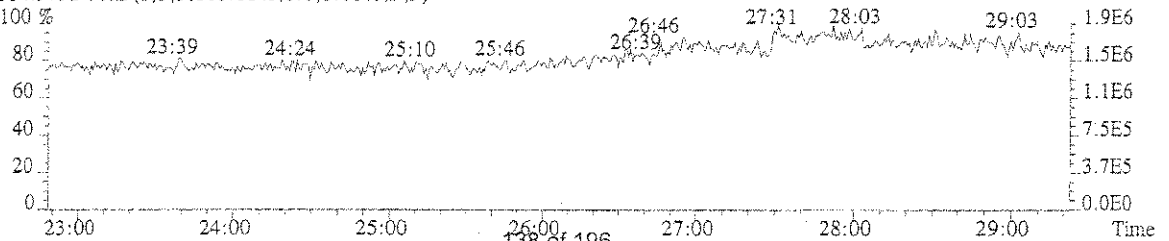
317.9389 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,428.0,1.00%,F,F)



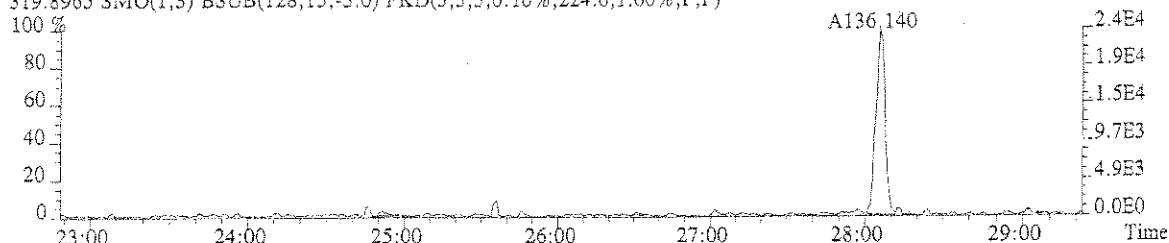
375.8364 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



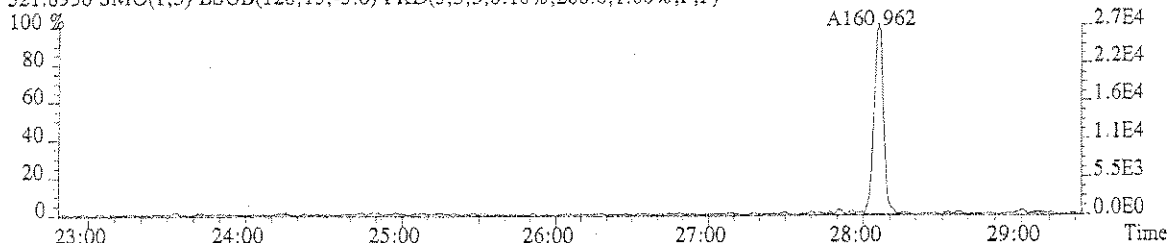
354.9792 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



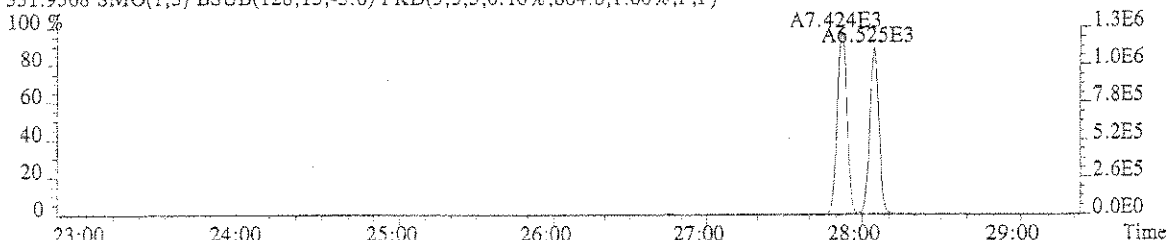
File:U120206 #1-548 Acq: 2-APR-2007 13:56:35 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC1
319.8965 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,224.0,1.00%,F,F)



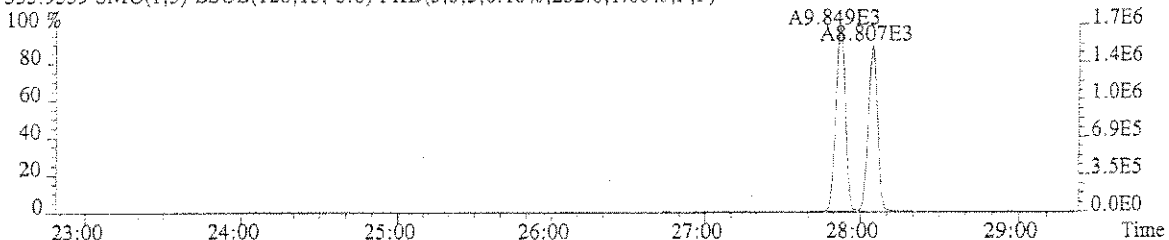
321.8936 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,208.0,1.00%,F,F)



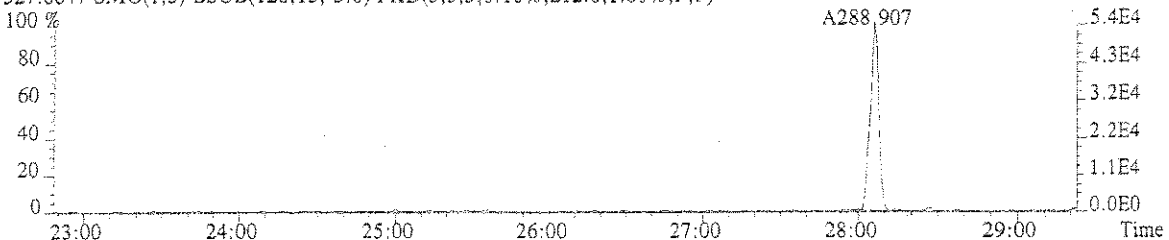
331.9368 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,804.0,1.00%,F,F)



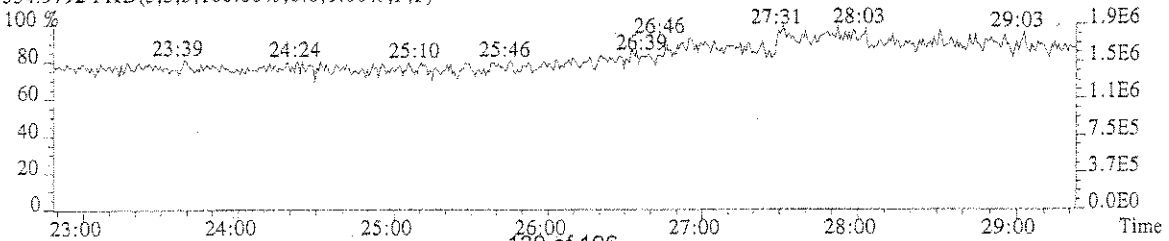
333.9339 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,232.0,1.00%,F,F)



327.8847 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,212.0,1.00%,F,F)

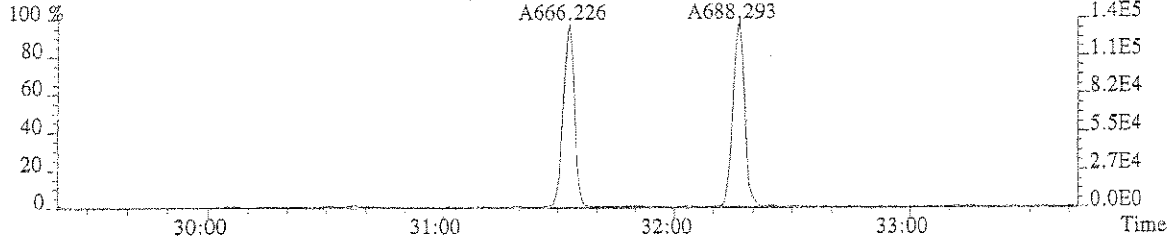


354.9792 PKD(3,3,3,100.0%,0.0,1.00%,F,F)

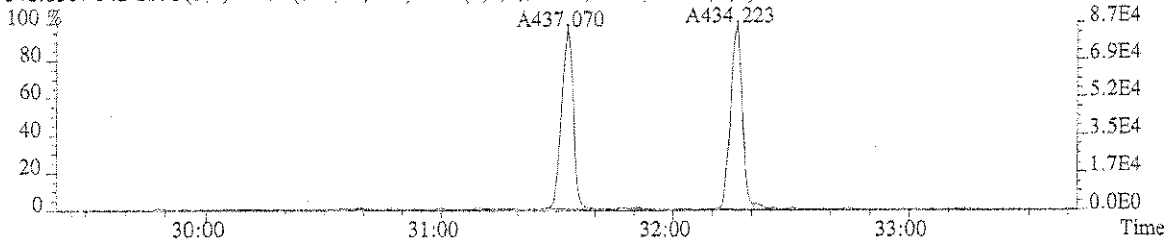


File:U120206 #1-394 Acq: 2-APR-2007 13:56:35 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC1

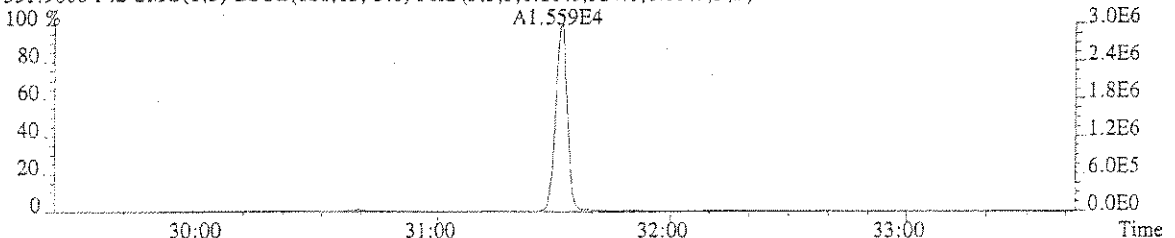
339.8597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,344.0,1.00%,F,F)



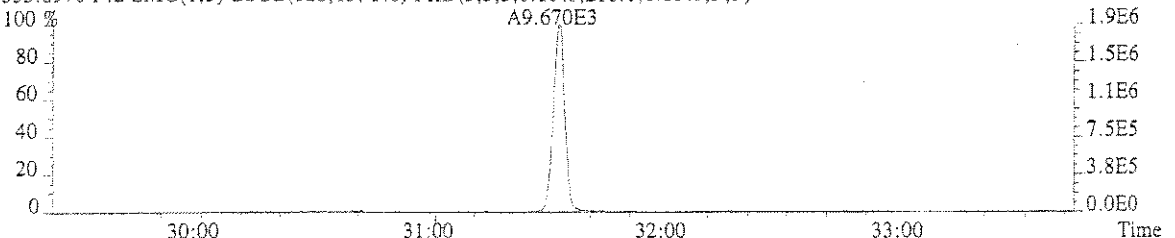
341.8567 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,284.0,1.00%,F,F)



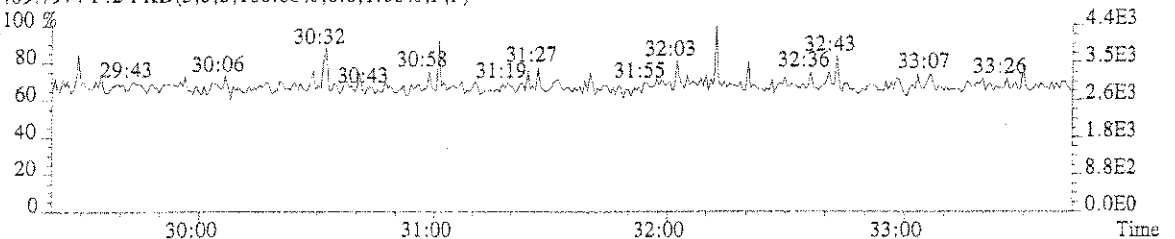
351.9000 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,324.0,1.00%,F,F)



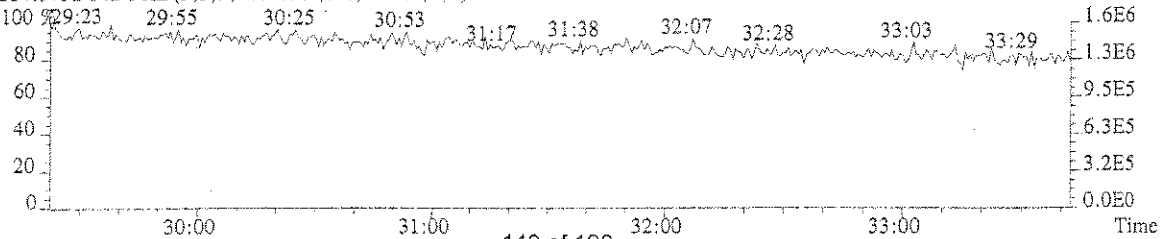
353.8970 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,288.0,1.00%,F,F)



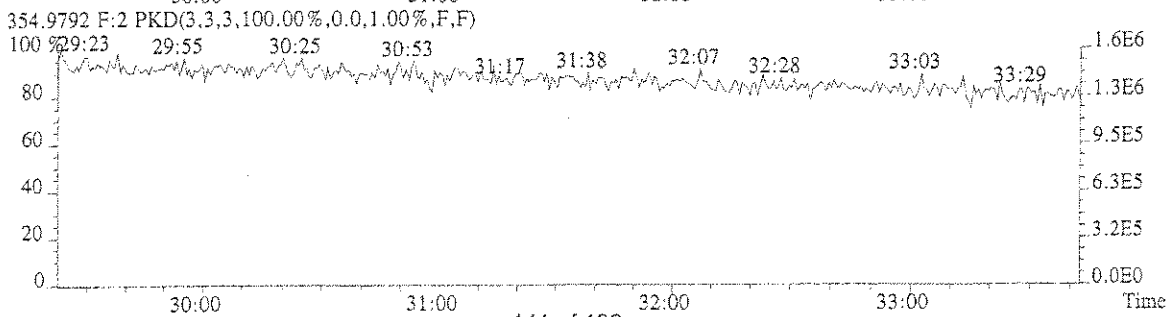
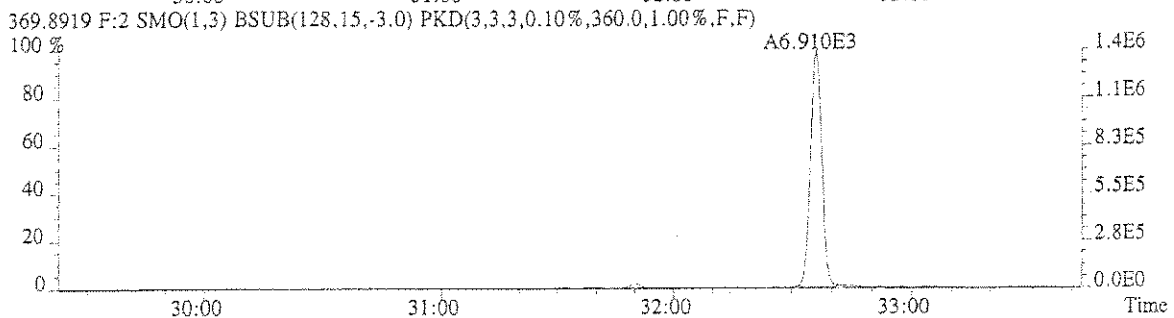
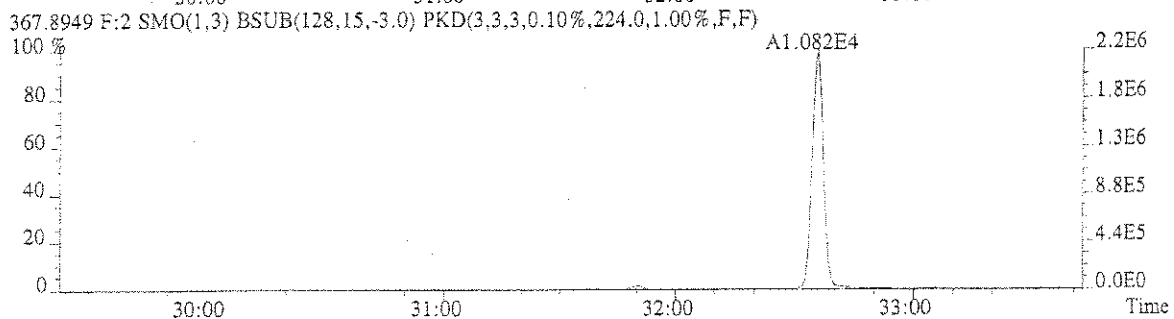
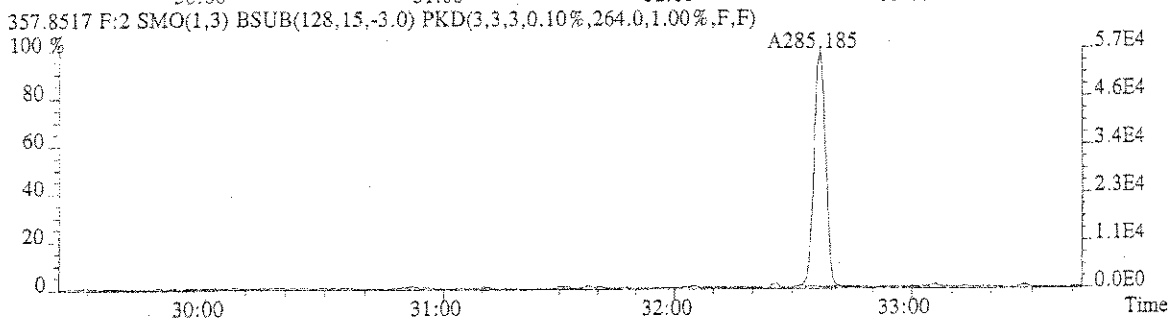
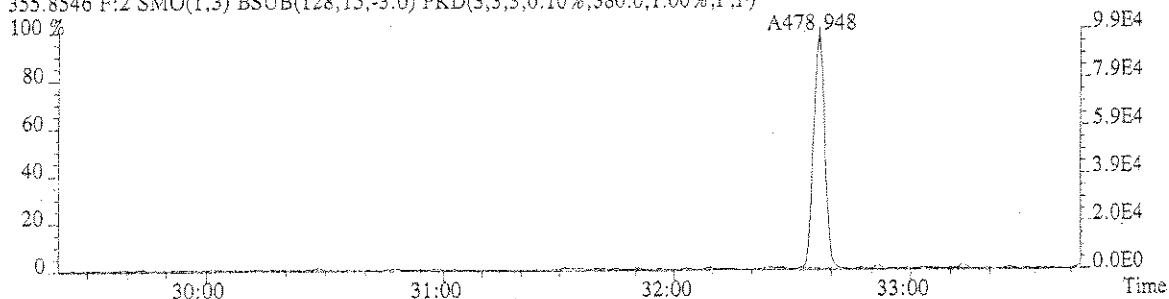
409.7974 F:2 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



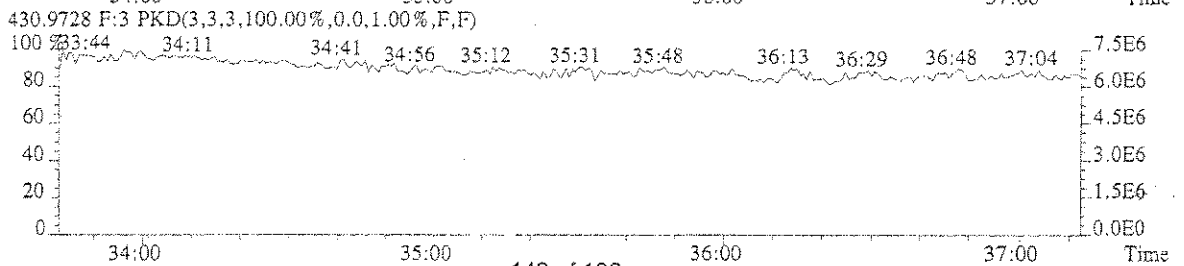
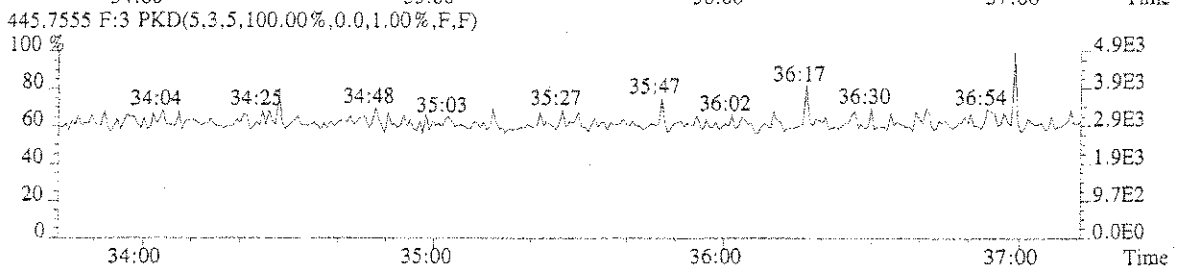
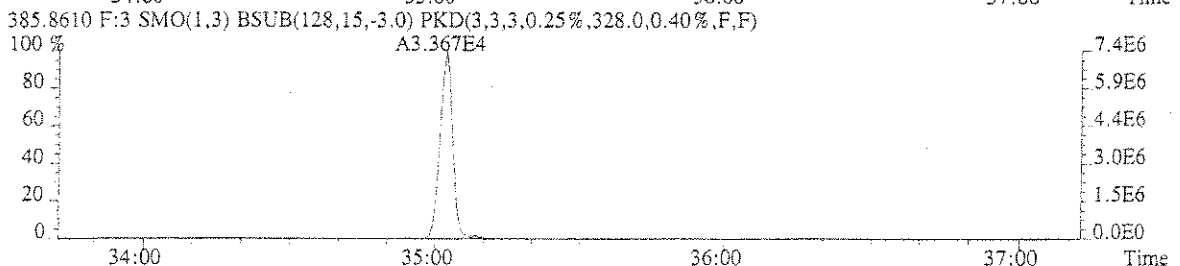
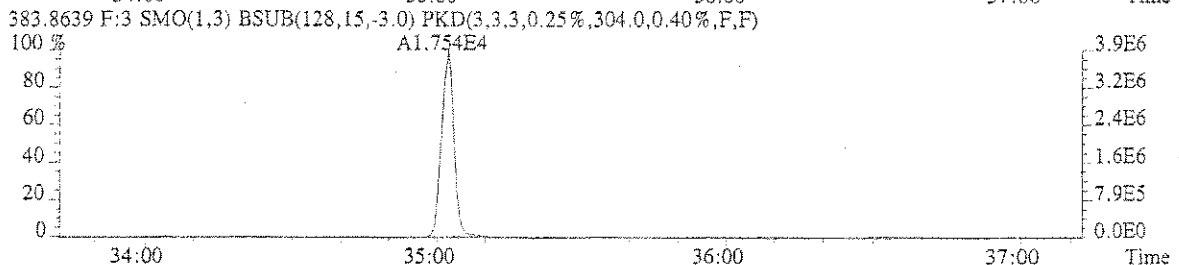
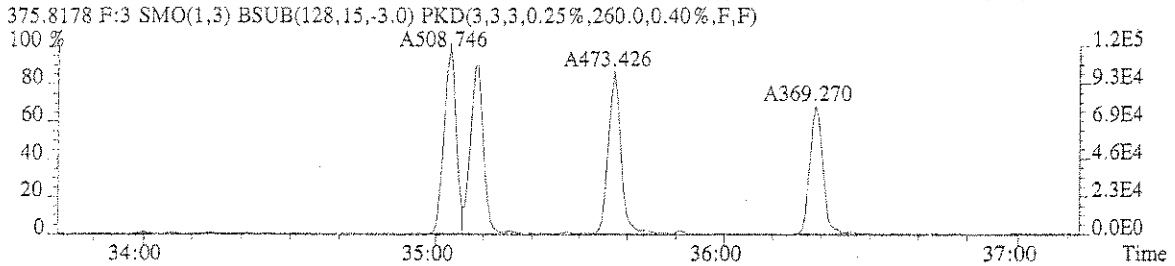
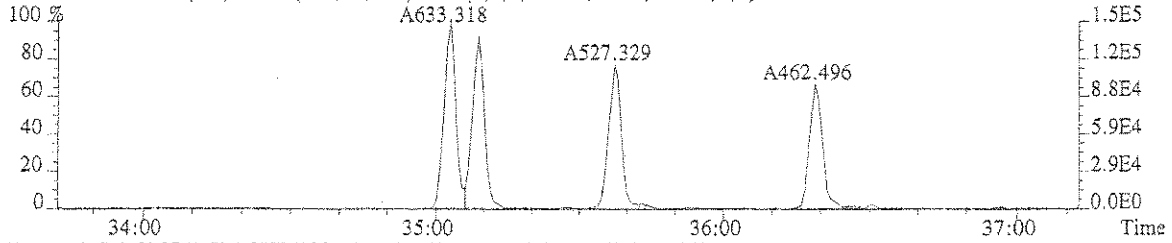
354.9792 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U120206 #1-394 Acq: 2-APR-2007 13:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect#
Sample#1 Exp:ICAL HRCCI
355.8546 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,380.0,1.00%,F,F)



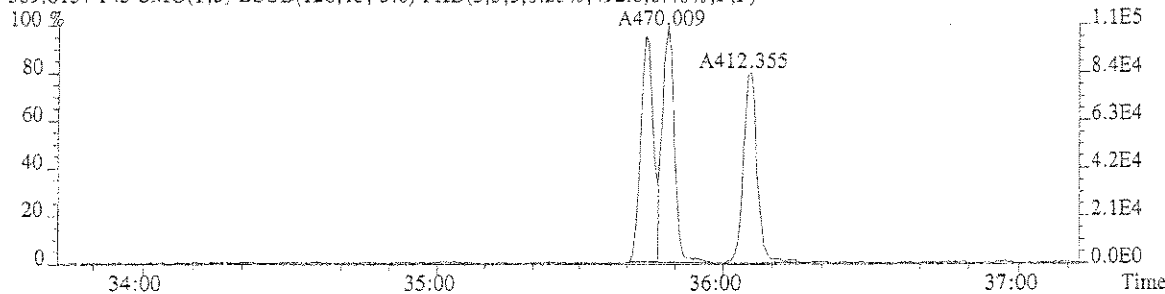
File:U120206 #1-318 Acq: 2-APR-2007 13:56:35 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC1
373.8208 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,320.0,0.40%,F,F)



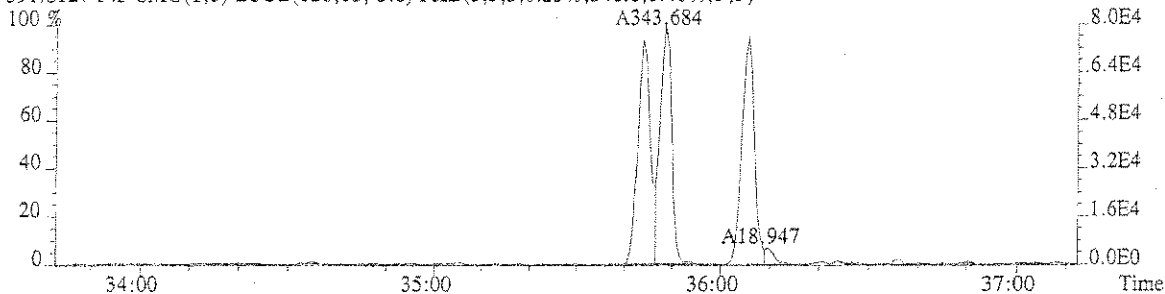
File:U120206 #1-318 Acq: 2-APR-2007 13:56:35 Probe EI+ Magnet SIR VG BioTech Mass spectf

Sample#1 Exp:ICAL HRCC1

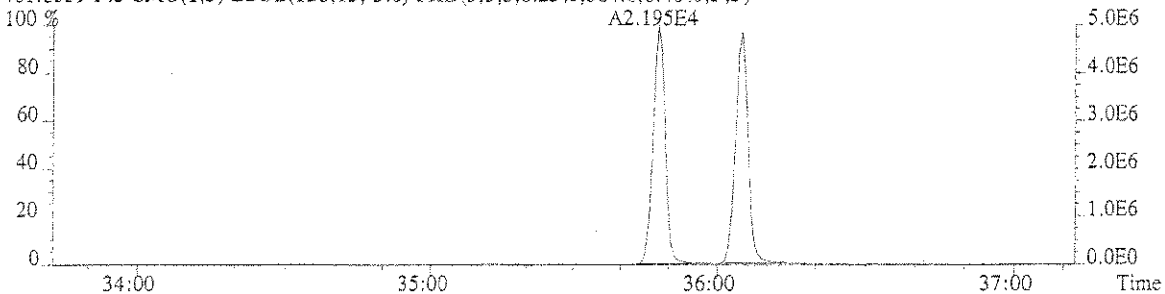
389.8157 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,492.0,0.40%,F,F)



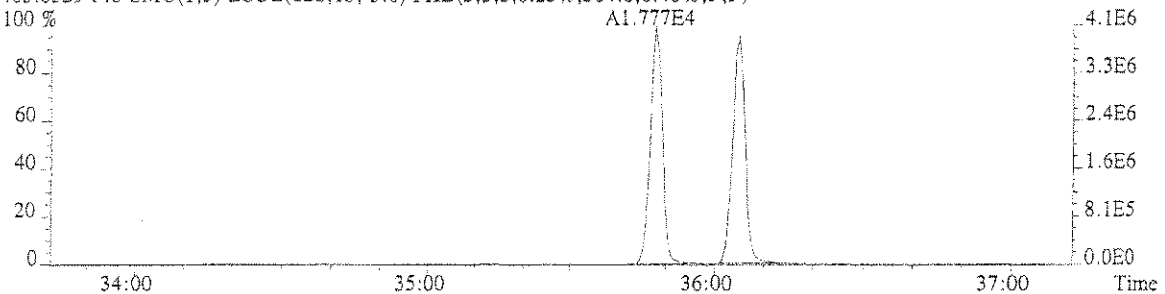
391.8127 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,348.0,0.40%,F,F)



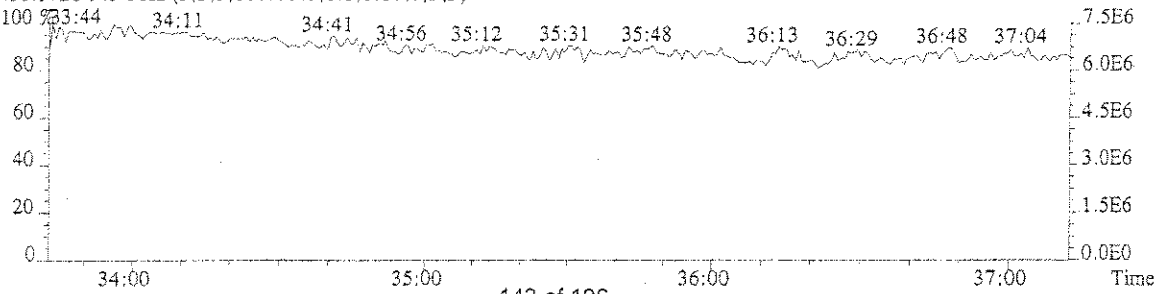
401.8559 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,364.0,0.40%,F,F)



403.8529 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,504.0,0.40%,F,F)



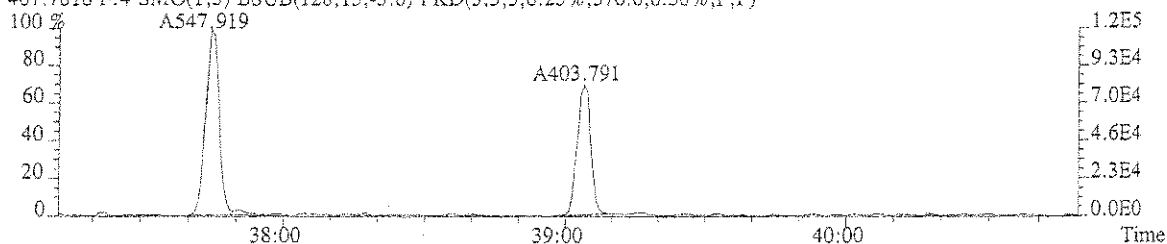
430.9728 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



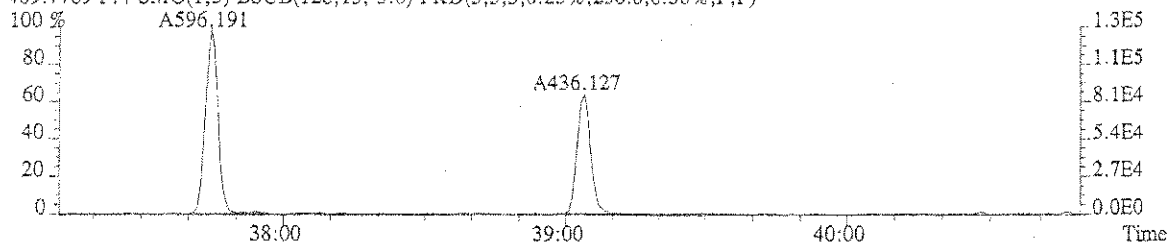
File:U120206 #1-327 Acq: 2-APR-2007 13:56:35 Probe EI+ Magnet SIR VG BioTech Mass spectf

Sample#1 Exp:ICAL HRCC1

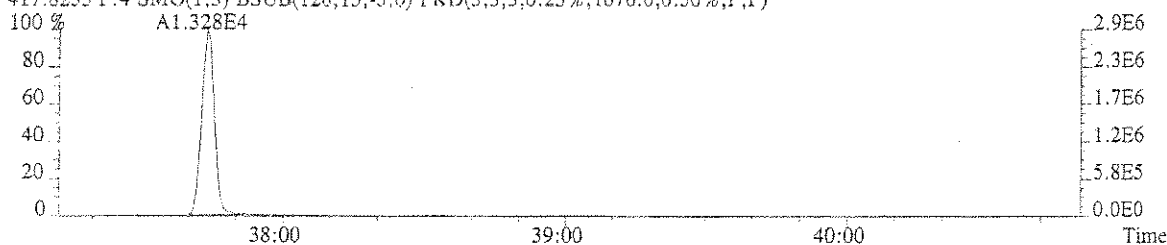
407.7818 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,576.0,0.50%,F,F)



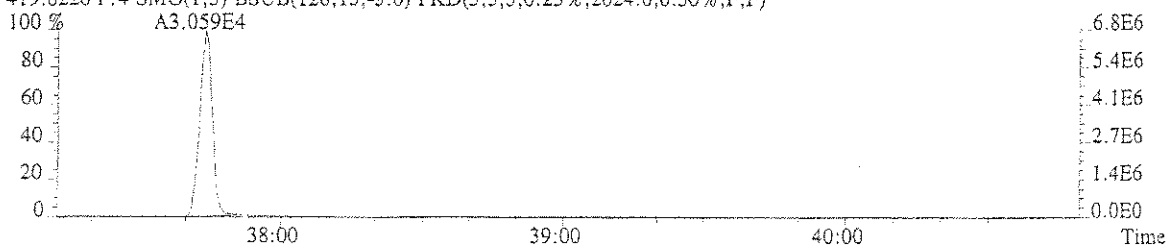
409.7789 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,236.0,0.50%,F,F)



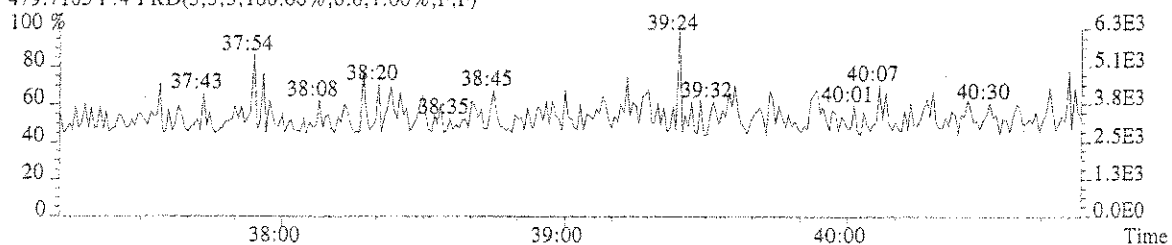
417.8253 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,1076.0,0.50%,F,F)



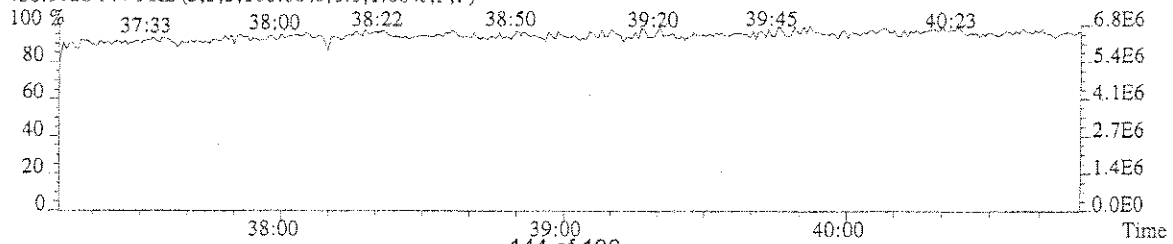
419.8220 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,2024.0,0.50%,F,F)



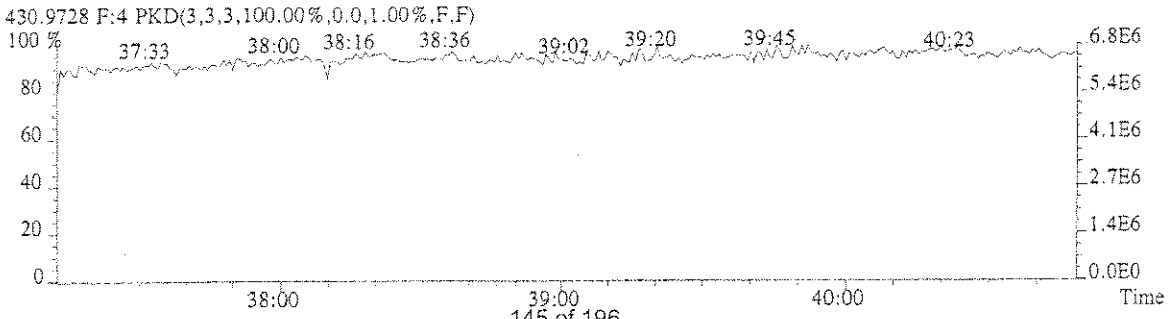
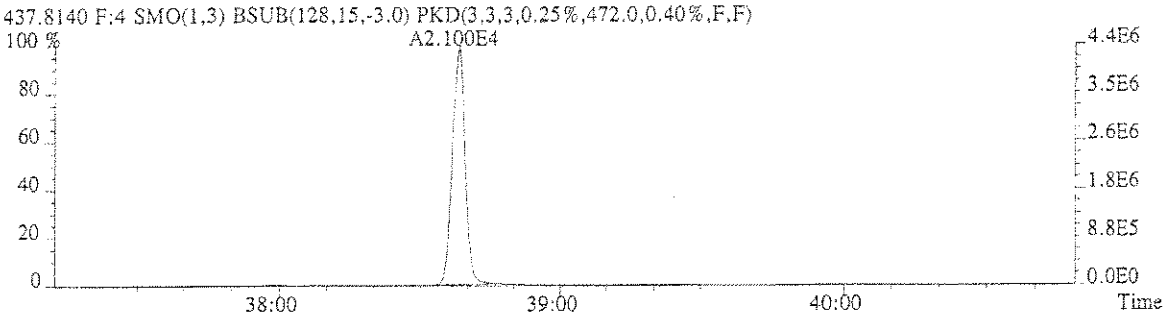
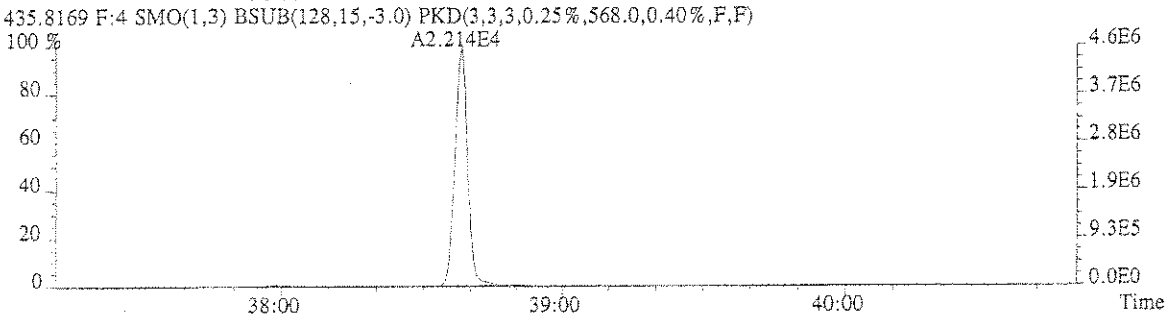
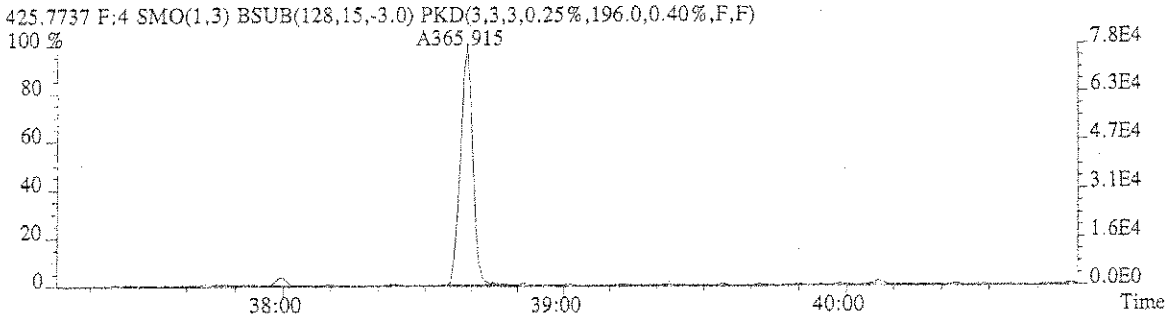
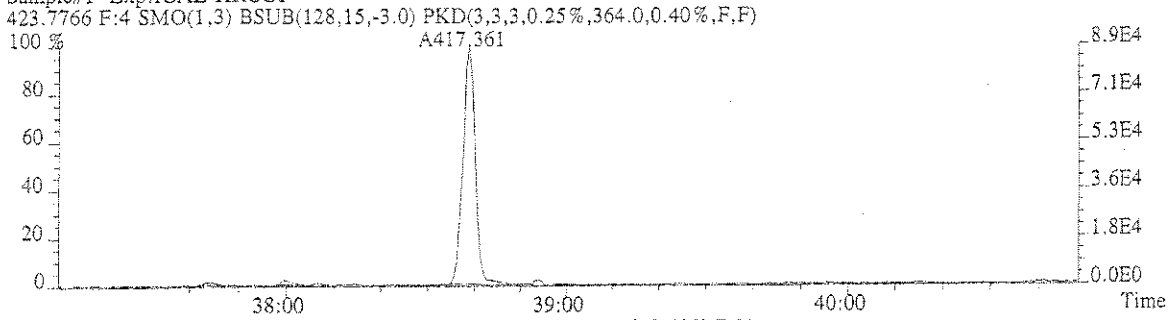
479.7165 F:4 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



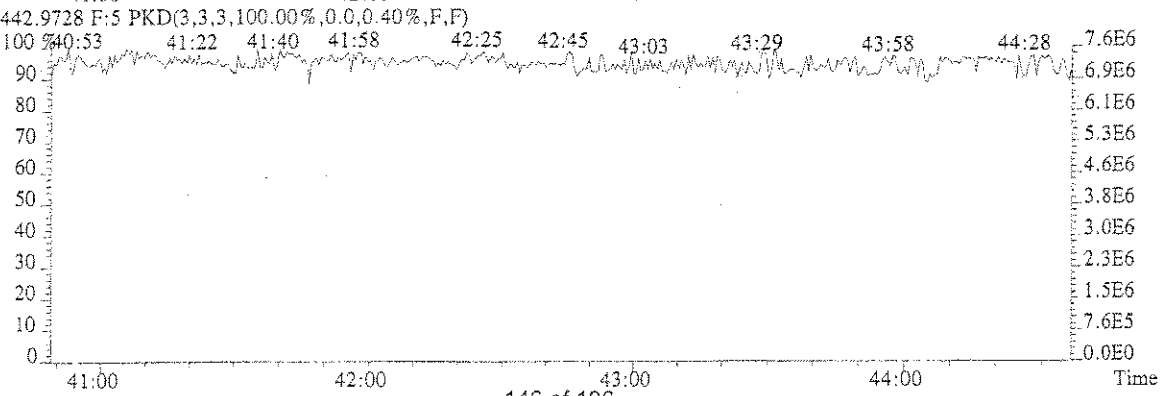
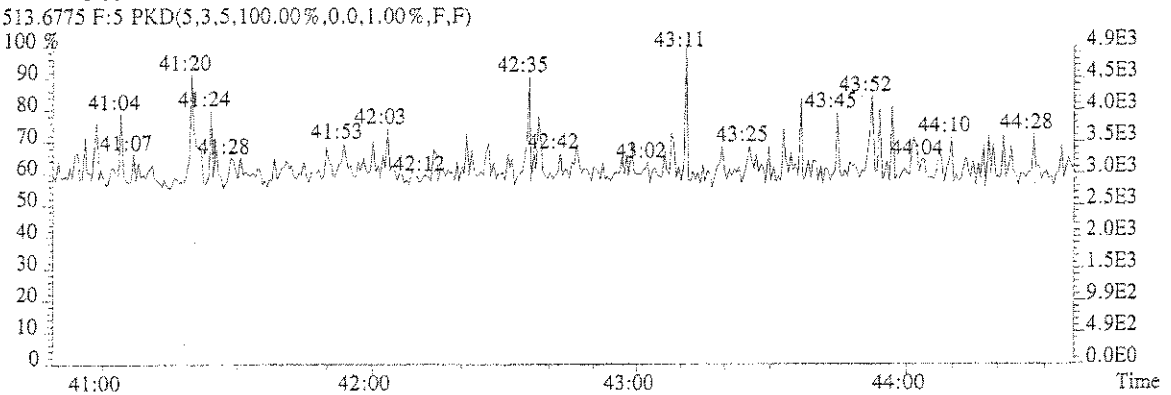
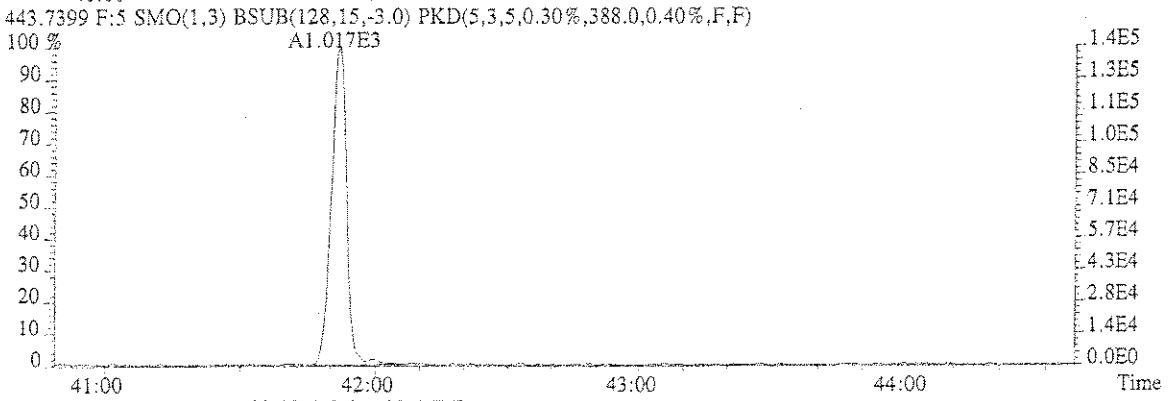
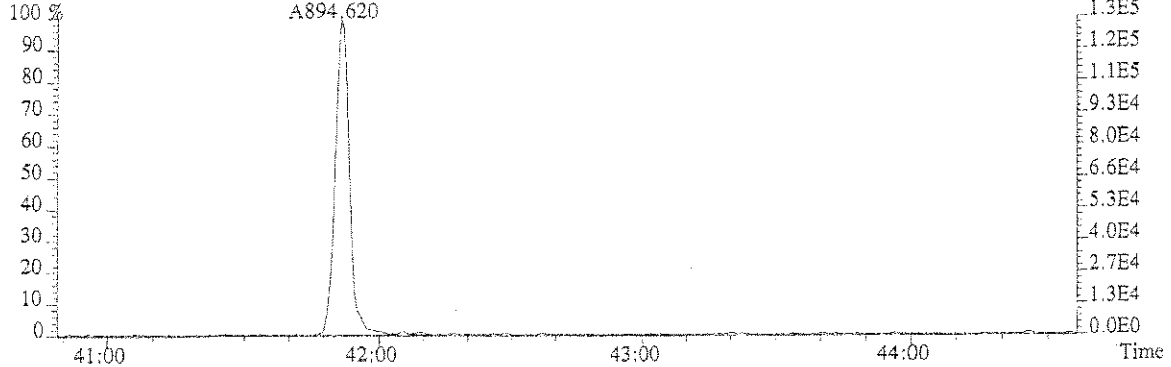
430.9728 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



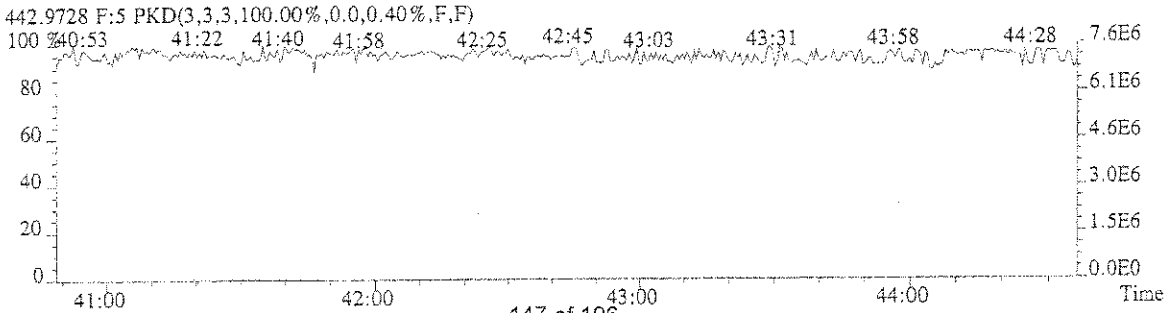
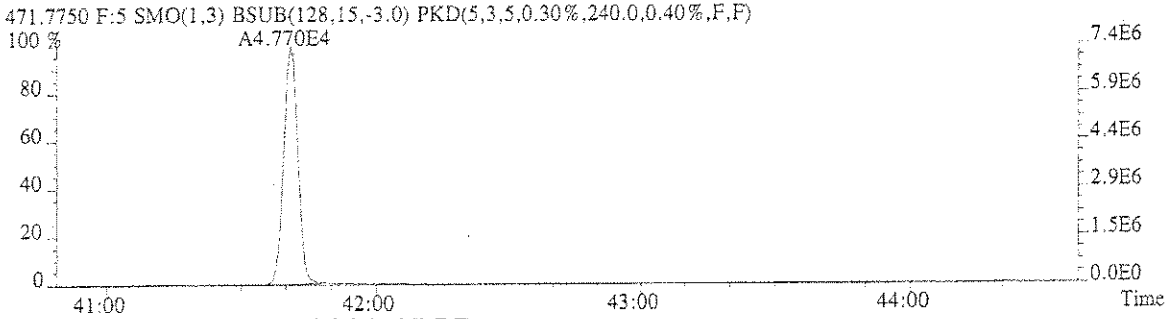
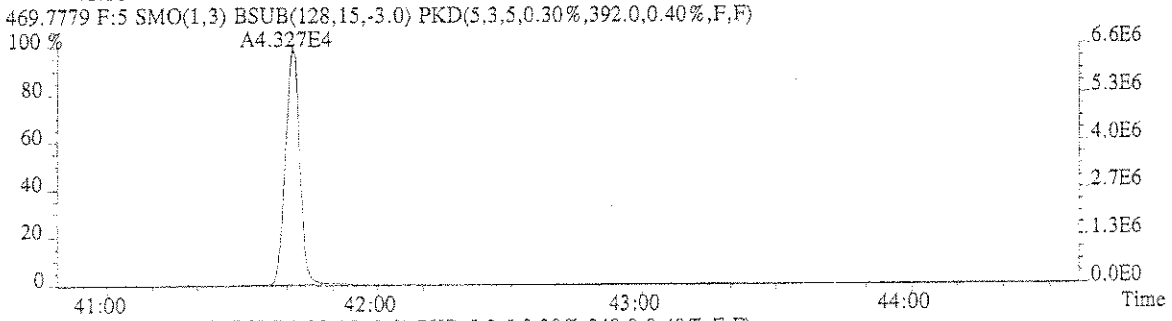
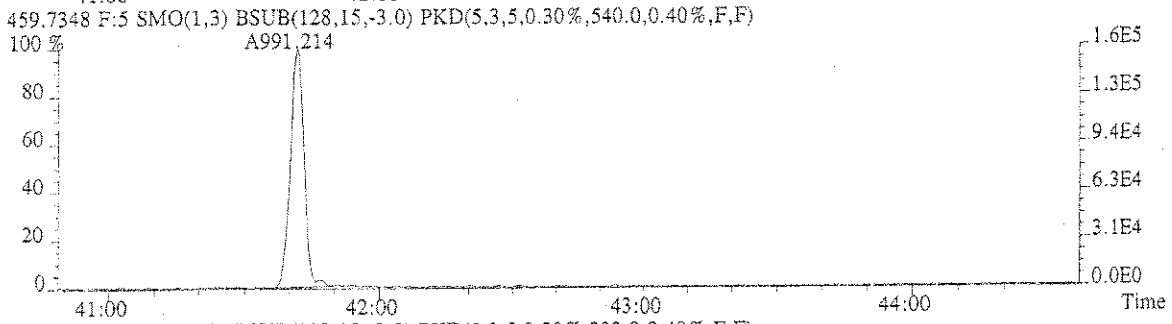
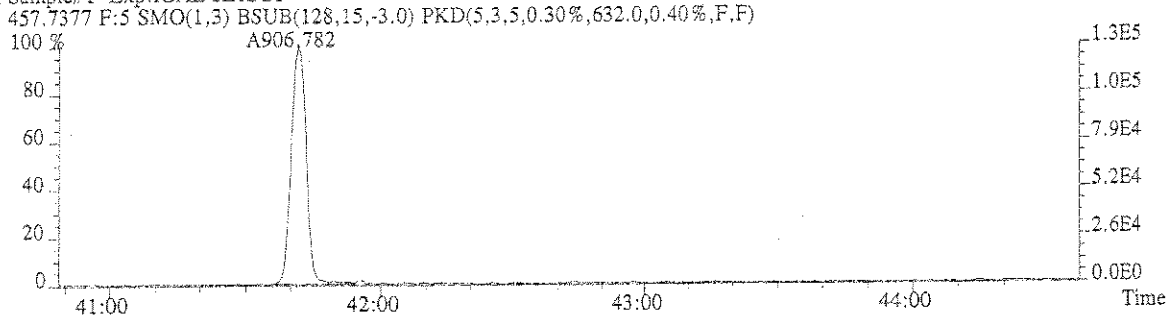
File:U120206 #1-327 Acq: 2-APR-2007 13:56:35 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC1



File: U120206 #1-420 Acq: 2-APR-2007 13:56:35 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp: ICAL HRCC1
441.7428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,312.0,0.40%,F,F)



File:U120206 #1-420 Acq: 2-APR-2007 13:56:35 Probe EI+ Magnet SIR VG BioTech Mass spectf
 Sample#1 Exp:ICAL HRCCI



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
ICAL HRCC2

Run #2 Filename U120207 Samp: 1 Inj: 1 Acquired: 2-APR-07 14:42:23
Processed: 3-APR-07 08:06:17 Sample ID: ICAL HRCC2

Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?
1 Unk	2,3,7,8-TCDF	27:16	4.265e+02	4.917e+02	0.87	yes	no
2 Unk	1,2,3,7,8-PeCDF	31:32	1.737e+03	1.070e+03	1.62	yes	no
3 Unk	2,3,4,7,8-PeCDF	32:16	1.700e+03	1.161e+03	1.46	yes	no
4 Unk	1,2,3,4,7,8-HxCDF	35:03	1.618e+03	1.291e+03	1.25	yes	no
5 Unk	1,2,3,6,7,8-HxCDF	35:09	1.665e+03	1.286e+03	1.29	yes	no
6 Unk	2,3,4,6,7,8-HxCDF	35:37	1.445e+03	1.183e+03	1.22	yes	no
7 Unk	1,2,3,7,8,9-HxCDF	36:19	1.199e+03	9.397e+02	1.28	yes	no
8 Unk	1,2,3,4,6,7,8-HpCDF	37:45	1.445e+03	1.543e+03	0.94	yes	no
9 Unk	1,2,3,4,7,8,9-HpCDF	39:04	1.126e+03	1.043e+03	1.08	yes	no
10 Unk	OCDF	41:52	2.382e+03	2.462e+03	0.97	yes	no
11 Unk	2,3,7,8-TCDD	28:06	3.189e+02	3.997e+02	0.80	yes	no
12 Unk	1,2,3,7,8-PeCDD	32:37	1.166e+03	7.814e+02	1.49	yes	no
13 Unk	1,2,3,4,7,8-HxCDD	35:44	1.226e+03	8.626e+02	1.42	yes	no
14 Unk	1,2,3,6,7,8-HxCDD	35:48	1.185e+03	9.812e+02	1.21	yes	no
15 Unk	1,2,3,7,8,9-HxCDD	36:06	1.107e+03	8.815e+02	1.26	yes	no
16 Unk	1,2,3,4,6,7,8-HpCDD	38:39	1.008e+03	9.515e+02	1.06	yes	no
17 Unk	OCDD	41:41	2.203e+03	2.476e+03	0.89	yes	no
18 IS	13C-2,3,7,8-TCDF	27:15	9.762e+03	1.174e+04	0.83	yes	no
19 IS	13C-1,2,3,7,8-PeCDF	31:31	1.582e+04	9.843e+03	1.61	yes	no
20 IS	13C-1,2,3,4,7,8-HxCDF	35:02	1.826e+04	3.396e+04	0.54	yes	no
21 IS	13C-1,2,3,4,6,7,8-HpCDF	37:44	1.327e+04	3.045e+04	0.44	yes	no
22 IS	13C-2,3,7,8-TCDD	28:04	6.892e+03	8.608e+03	0.80	yes	no
23 IS	13C-1,2,3,7,8-PeCDD	32:36	1.057e+04	6.930e+03	1.53	yes	no
24 IS	13C-1,2,3,6,7,8-HxCDD	35:48	2.238e+04	1.803e+04	1.24	yes	no
25 IS	13C-1,2,3,4,6,7,8-HpCDD	38:38	2.220e+04	2.109e+04	1.05	yes	no
26 IS	13C-OCDD	41:41	4.240e+04	4.786e+04	0.89	yes	no
27 RS/RT	13C-1,2,3,4-TCDD	27:52	7.805e+03	9.651e+03	0.81	yes	no
28 RS/RT	13C-1,2,3,7,8,9-HxCDD	36:05	2.193e+04	1.785e+04	1.23	yes	no
29 C/Up	37Cl-2,3,7,8-TCDD	28:05	7.146e+02				

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Columbia Analytical Services, Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
ICAL HRCC2

Run #2 Filename U120207 Samp: 1 Inj: 1 Acquired: 2-APR-07 14:42:23

Processed: 3-APR-07 08:06:17 LAB. ID: ICAL HRCC2

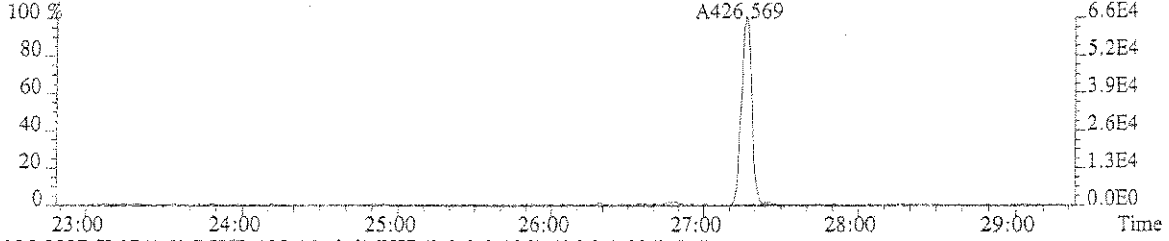
	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2,3,7,8-TCDF	6.54e+04	2.56e+02	2.6e+02	7.68e+04	4.36e+02	1.8e+02
2	1,2,3,7,8-PeCDF	3.25e+05	2.52e+02	1.3e+03	2.10e+05	2.00e+02	1.0e+03
3	2,3,4,7,8-PeCDF	3.23e+05	2.52e+02	1.3e+03	2.23e+05	2.00e+02	1.1e+03
4	1,2,3,4,7,8-HxCDF	3.52e+05	2.80e+02	1.3e+03	2.90e+05	2.04e+02	1.4e+03
5	1,2,3,6,7,8-HxCDF	3.53e+05	2.80e+02	1.3e+03	2.70e+05	2.04e+02	1.3e+03
6	2,3,4,6,7,8-HxCDF	3.13e+05	2.80e+02	1.1e+03	2.50e+05	2.04e+02	1.2e+03
7	1,2,3,7,8,9-HxCDF	2.51e+05	2.80e+02	9.0e+02	2.01e+05	2.04e+02	9.8e+02
8	1,2,3,4,6,7,8-HpCDF	3.16e+05	8.44e+02	3.7e+02	3.29e+05	5.56e+02	5.9e+02
9	1,2,3,4,7,8,9-HpCDF	2.22e+05	8.44e+02	2.6e+02	1.98e+05	5.56e+02	3.6e+02
10	OCDF	3.49e+05	3.20e+02	1.1e+03	3.54e+05	5.72e+02	6.2e+02
11	2,3,7,8-TCDD	5.65e+04	2.88e+02	2.0e+02	6.82e+04	2.72e+02	2.5e+02
12	1,2,3,7,8-PeCDD	2.42e+05	2.88e+02	8.4e+02	1.57e+05	2.60e+02	6.0e+02
13	1,2,3,4,7,8-HxCDD	2.72e+05	4.08e+02	6.7e+02	2.07e+05	2.76e+02	7.5e+02
14	1,2,3,6,7,8-HxCDD	2.60e+05	4.08e+02	6.4e+02	2.02e+05	2.76e+02	7.3e+02
15	1,2,3,7,8,9-HxCDD	2.36e+05	4.08e+02	5.8e+02	1.96e+05	2.76e+02	7.1e+02
16	1,2,3,4,6,7,8-HpCDD	2.13e+05	2.48e+02	8.6e+02	2.02e+05	2.80e+02	7.2e+02
17	OCDD	3.29e+05	3.44e+02	9.6e+02	3.91e+05	3.56e+02	1.1e+03
18	13C-2,3,7,8-TCDF	1.65e+06	5.12e+02	3.2e+03	2.00e+06	4.92e+02	4.1e+03
19	13C-1,2,3,7,8-PeCDF	3.12e+06	3.00e+02	1.0e+04	1.95e+06	3.56e+02	5.5e+03
20	13C-1,2,3,4,7,8-HxCDF	4.02e+06	2.84e+02	1.4e+04	7.49e+06	2.96e+02	2.5e+04
21	13C-1,2,3,4,6,7,8-HpCDF	2.87e+06	1.87e+03	1.5e+03	6.59e+06	2.31e+03	2.9e+03
22	13C-2,3,7,8-TCDD	1.23e+06	7.00e+02	1.8e+03	1.54e+06	1.60e+02	9.6e+03
23	13C-1,2,3,7,8-PeCDD	2.12e+06	2.72e+02	7.8e+03	1.38e+06	2.96e+02	4.7e+03
24	13C-1,2,3,6,7,8-HxCDD	5.07e+06	4.60e+02	1.1e+04	4.10e+06	2.56e+02	1.6e+04
25	13C-1,2,3,4,6,7,8-HpCDD	4.57e+06	2.56e+02	1.8e+04	4.38e+06	3.00e+02	1.5e+04
26	13C-OCDD	6.41e+06	2.20e+02	2.9e+04	7.32e+06	3.56e+02	2.1e+04
27	13C-1,2,3,4-TCDD	1.43e+06	7.00e+02	2.0e+03	1.72e+06	1.60e+02	1.1e-04
28	13C-1,2,3,7,8,9-HxCDD	4.83e+06	4.60e+02	1.0e+04	3.92e+06	2.56e+02	1.5e-04
29	37Cl-2,3,7,8-TCDD	1.24e+05	2.48e+02	5.0e+02			

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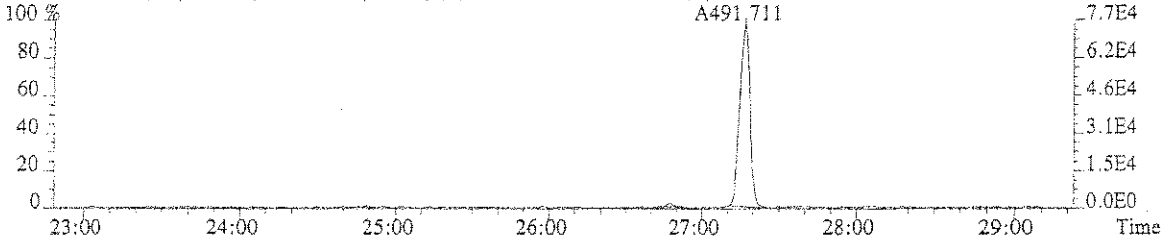
File:U120207 #1-548 Acq: 2-APR-2007 14:42:23 Probe EI+ Magnet SIR VG BioTech Mass spectf

Sample#1 Exp:ICAL HRCC2

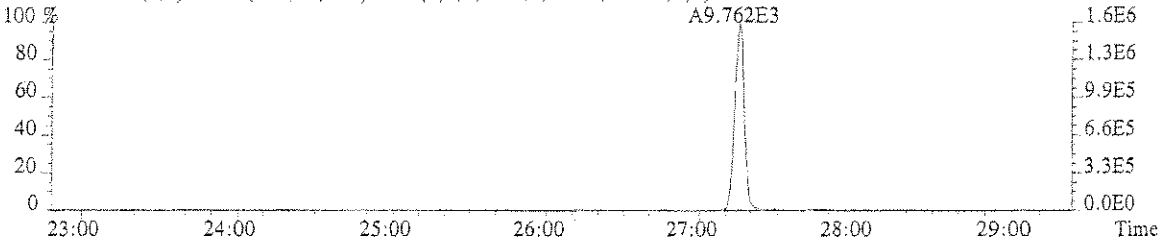
303.9016 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,256.0,1.00%,F,F)



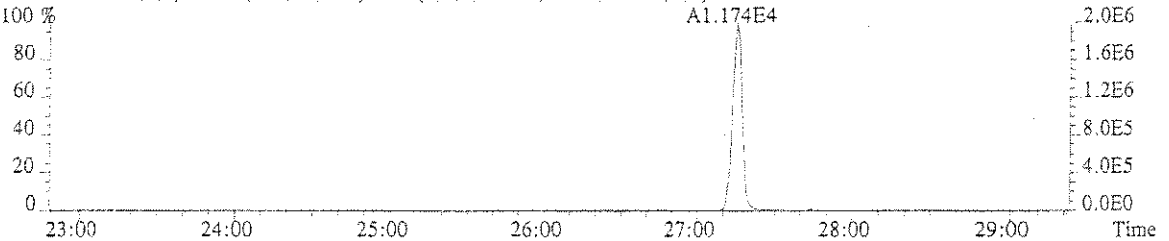
305.8987 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,436.0,1.00%,F,F)



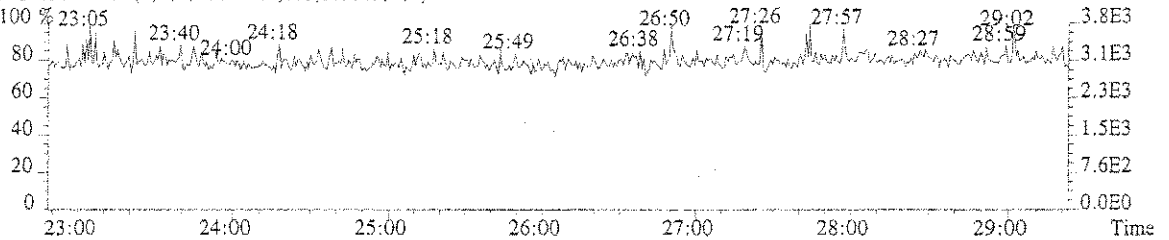
315.9419 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,512.0,1.00%,F,F)



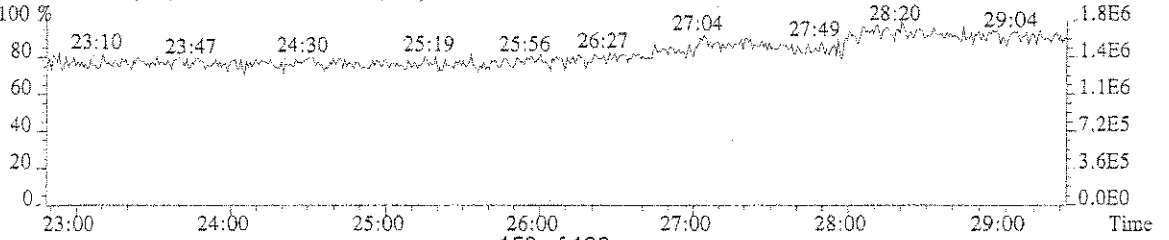
317.9389 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,492.0,1.00%,F,F)



375.8364 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



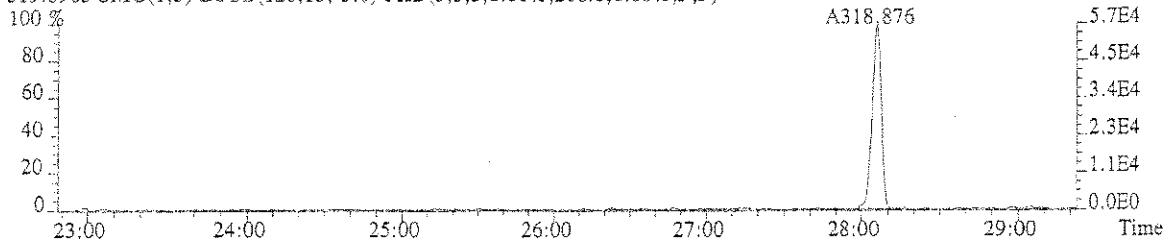
354.9792 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



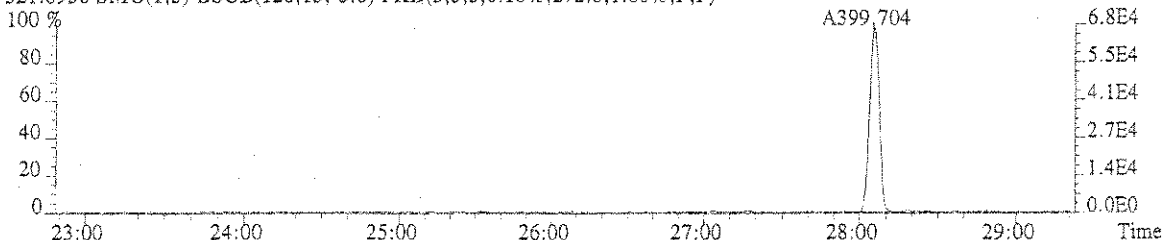
File:U120207 #1-548 Acq: 2-APR-2007 14:42:23 Probe EI+ Magnet SIR VG BioTech Mass spectf

Sample#1 Exp:ICAL HRCC2

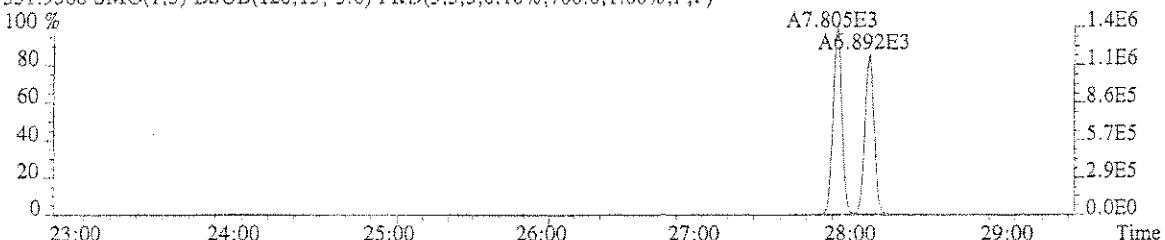
319.8965 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,288.0,1.00%,F,F)



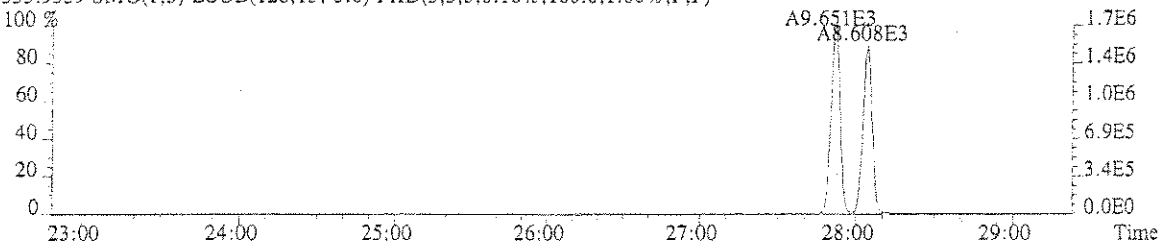
321.8936 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,272.0,1.00%,F,F)



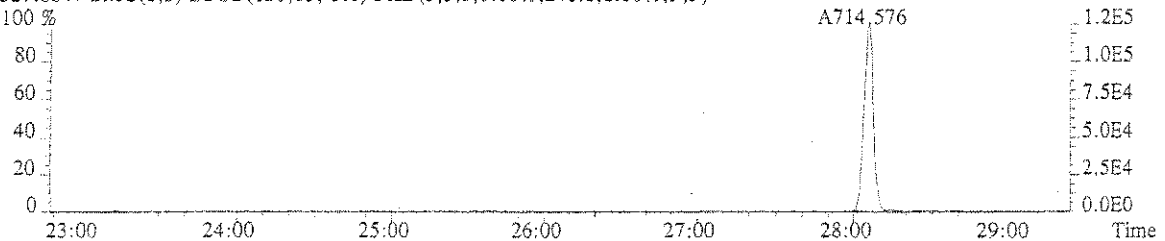
331.9368 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,700.0,1.00%,F,F)



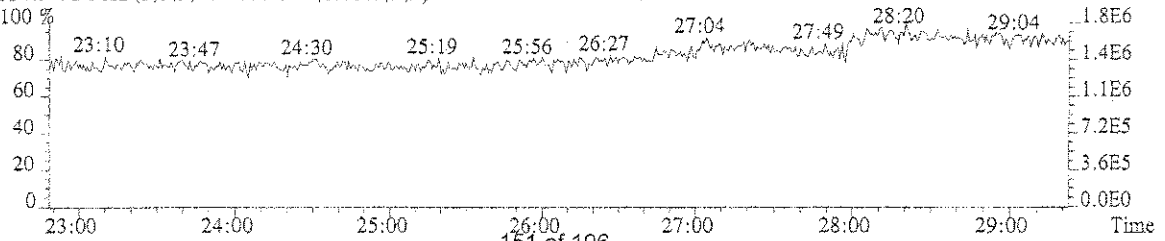
333.9339 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,160.0,1.00%,F,F)



327.8847 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,248.0,1.00%,F,F)



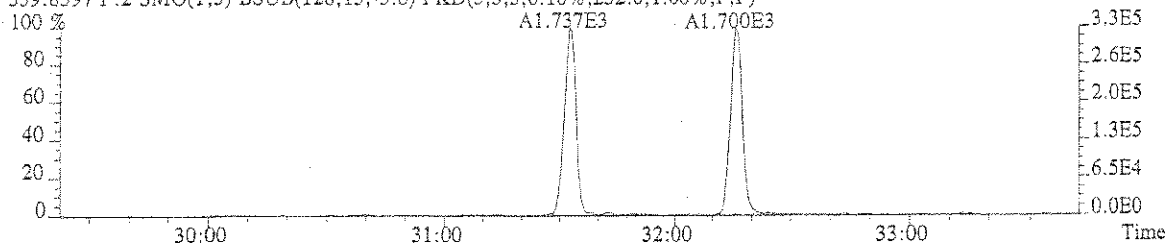
354.9792 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



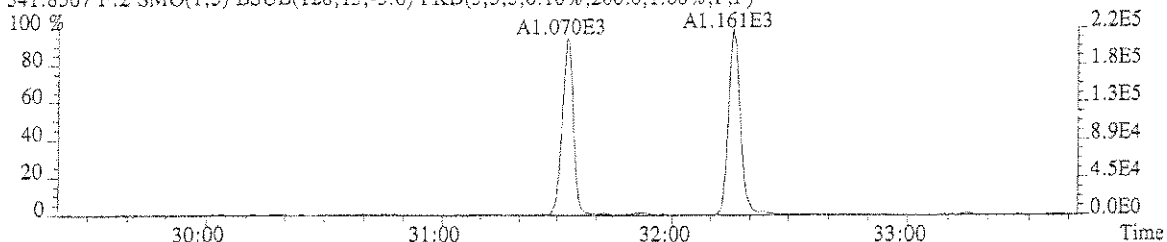
File:U120207 #1-394 Acq: 2-APR-2007 14:42:23 Probe EI+ Magnet SIR VG BioTech Mass spect#

Sample#1 Exp:ICAL HRCC2

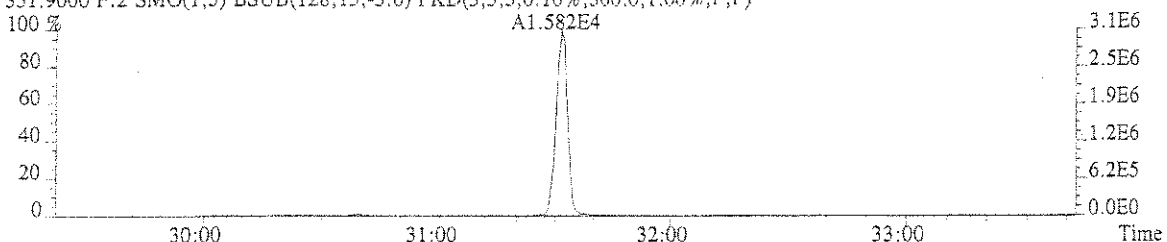
339.8597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,252.0,1.00%,F,F)



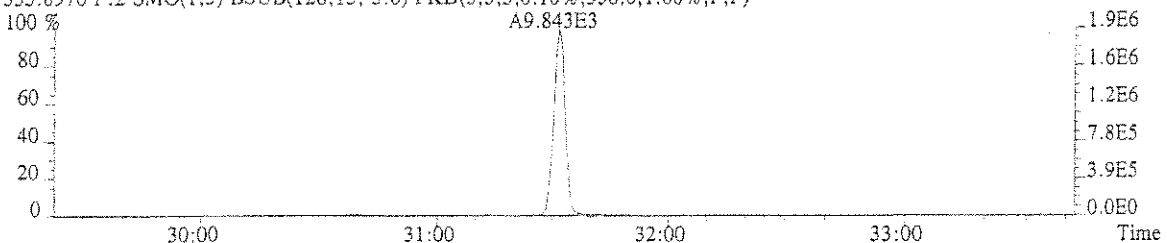
341.8567 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,200.0,1.00%,F,F)



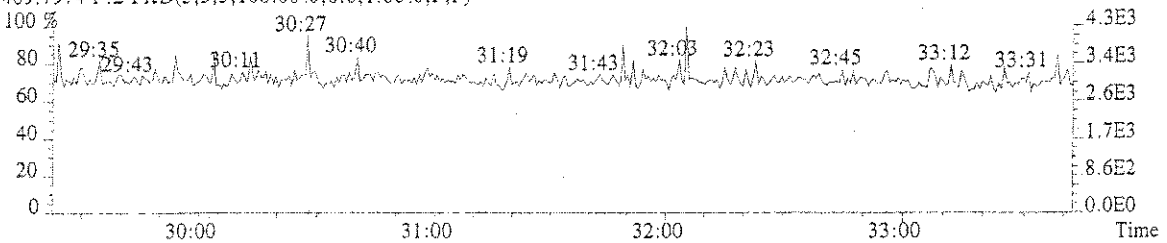
351.9000 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,300.0,1.00%,F,F)



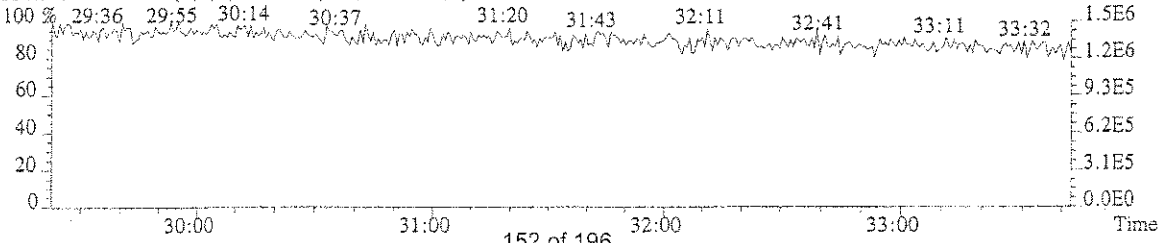
353.8970 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,356.0,1.00%,F,F)



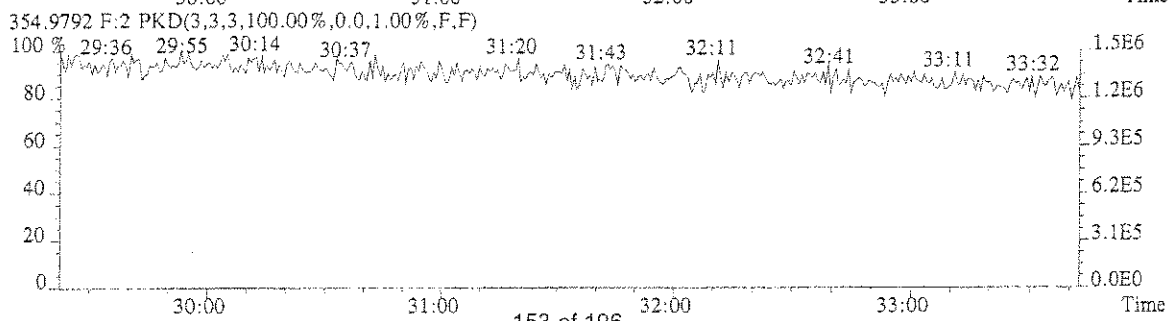
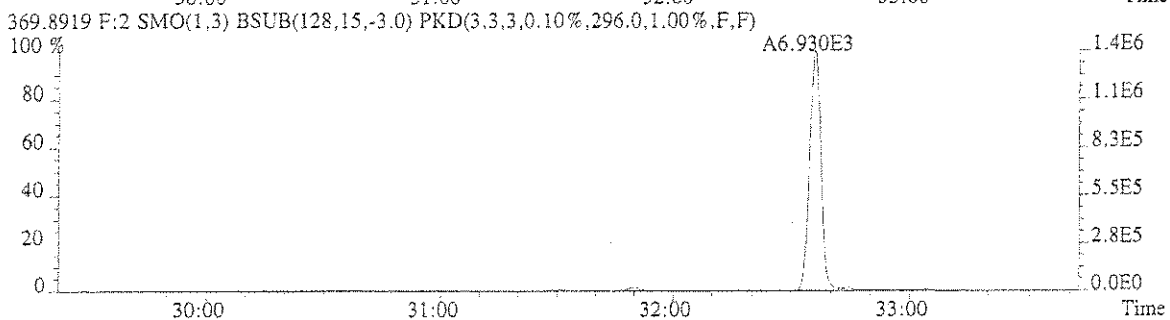
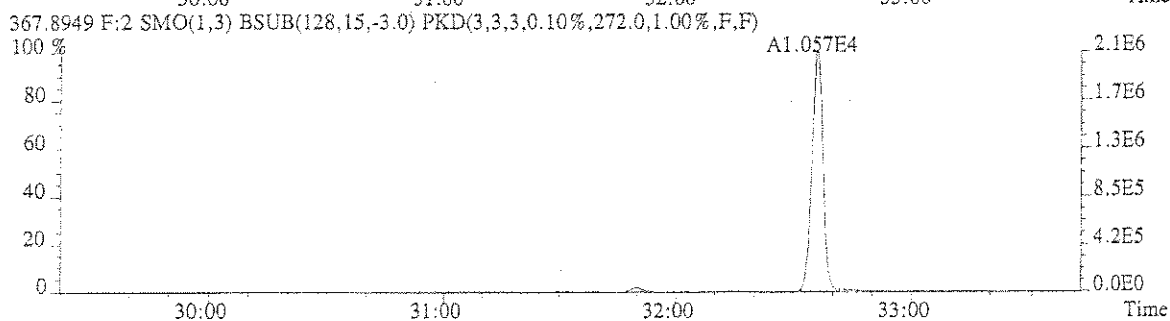
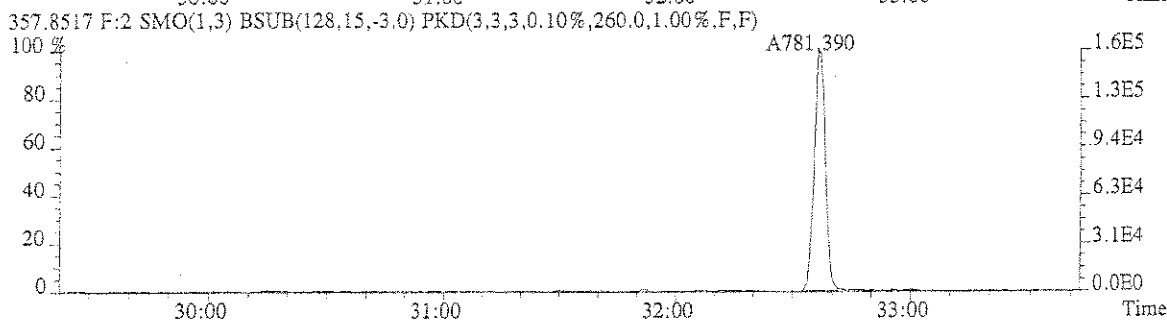
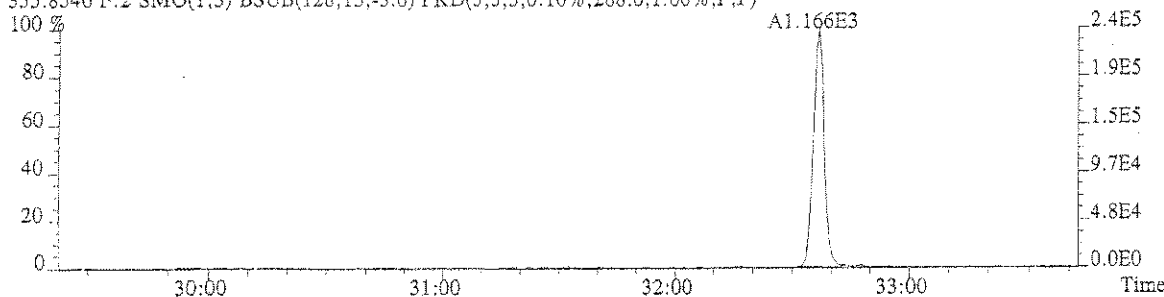
409.7974 F:2 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



354.9792 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



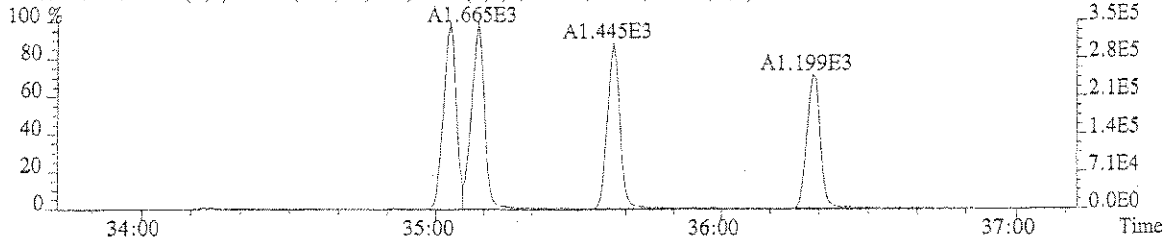
File:U120207 #1-394 Acq: 2-APR-2007 14:42:23 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC2
355.8546 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,288.0,1.00%,F,F)



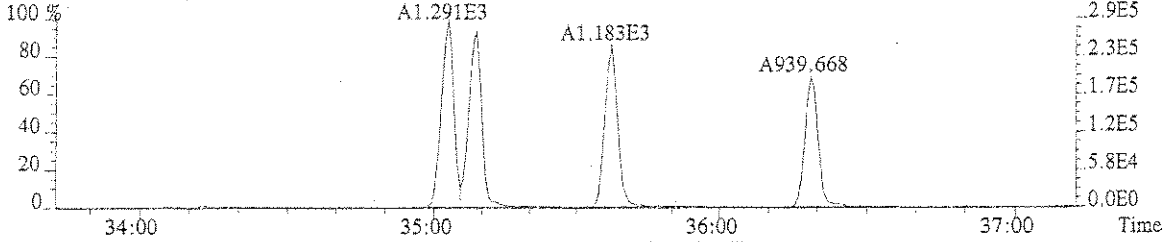
File:U120207 #1-318 Acq: 2-APR-2007 14:42:23 Probe EI+ Magnet SIR VG BioTech Mass spectf

Sample#1 Exp:ICAL HRCC2

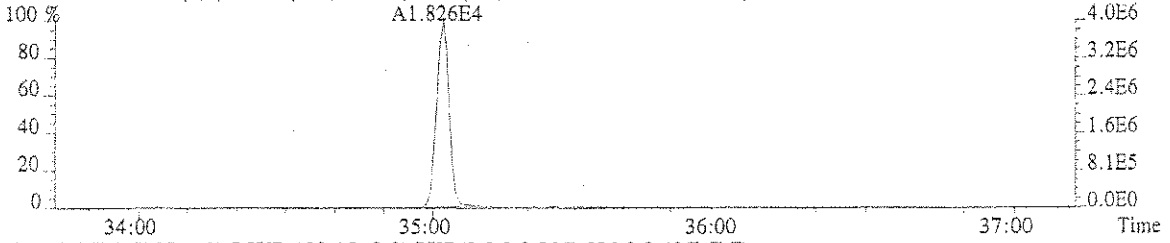
373.8208 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,280.0,0.40%,F,F)



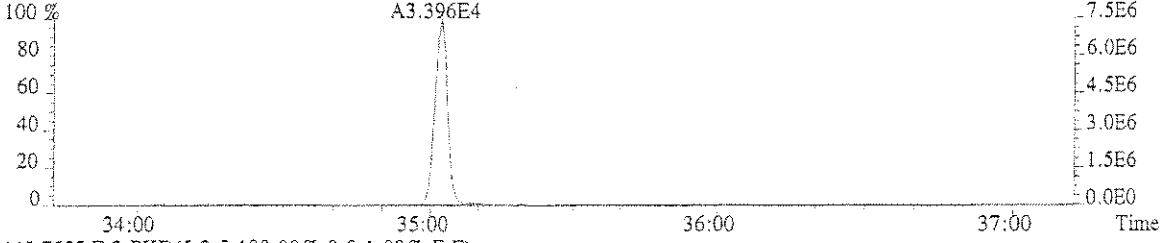
375.8178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,204.0,0.40%,F,F)



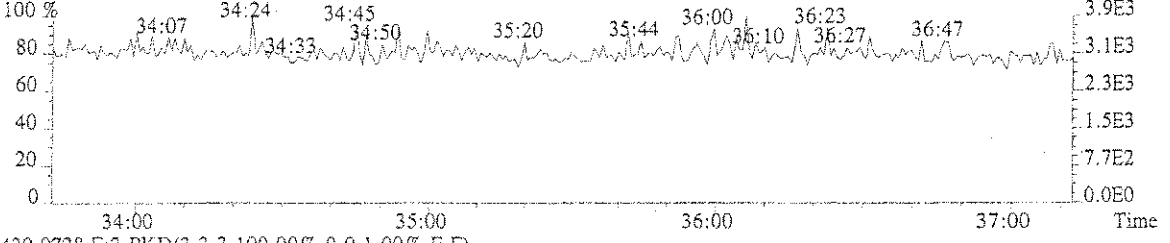
383.8639 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,284.0,0.40%,F,F)



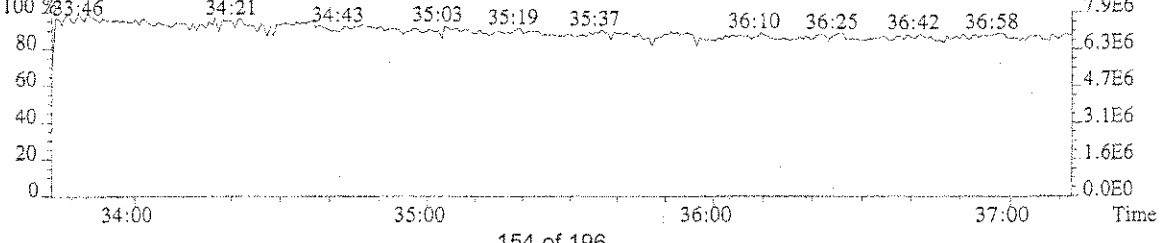
385.8610 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,296.0,0.40%,F,F)



445.7555 F:3 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



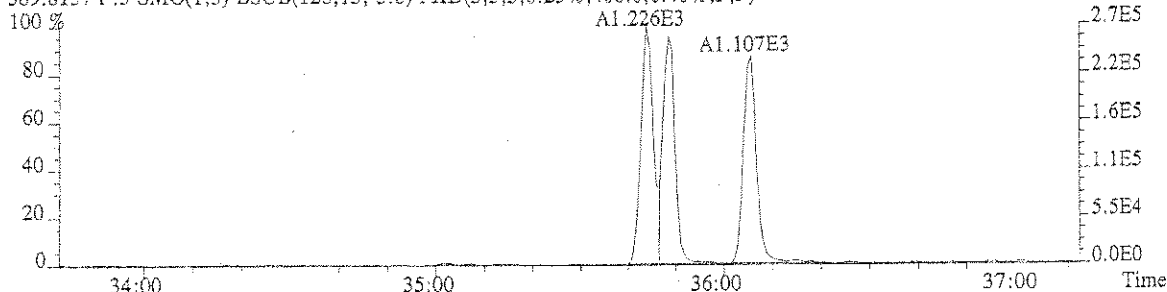
430.9728 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



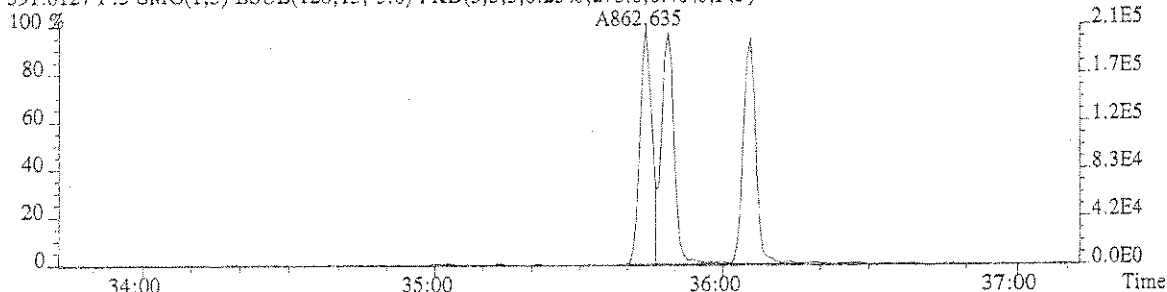
File:U120207 #1-318 Acq: 2-APR-2007 14:42:23 Probe EI+ Magnet SIR VG BioTech Mass spectf

Sample#1 Exp:ICAL HRCC2

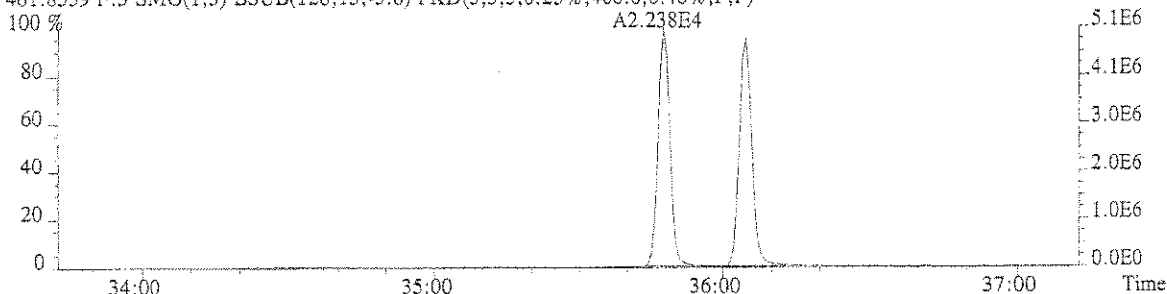
389.8157 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,408.0,0.40%,F,F)



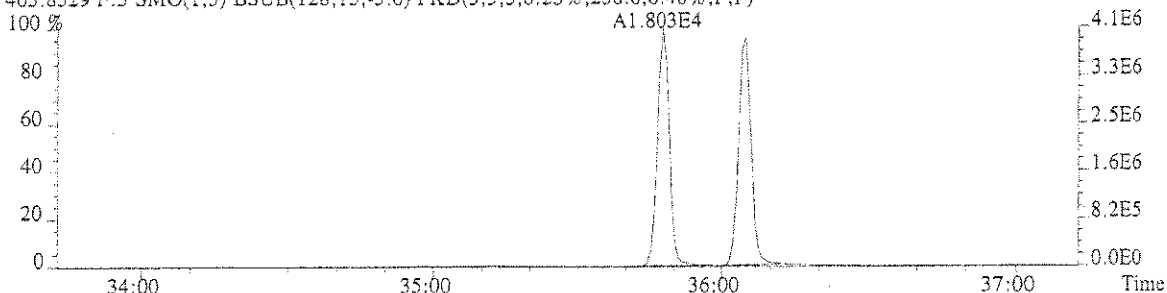
391.8127 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,276.0,0.40%,F,F)



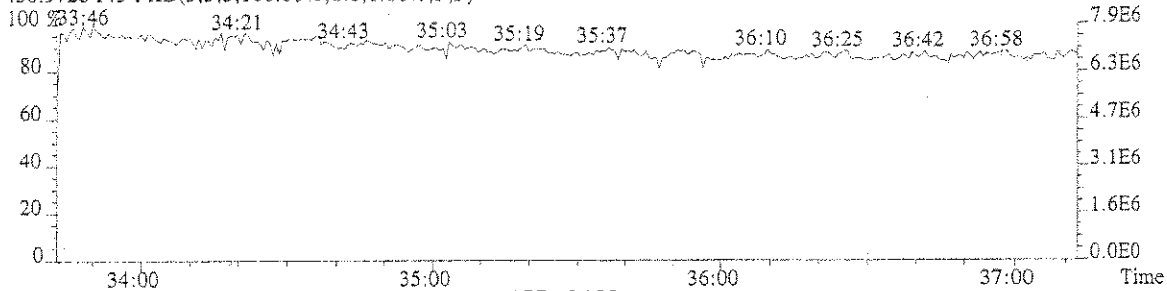
401.8559 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,460.0,0.40%,F,F)



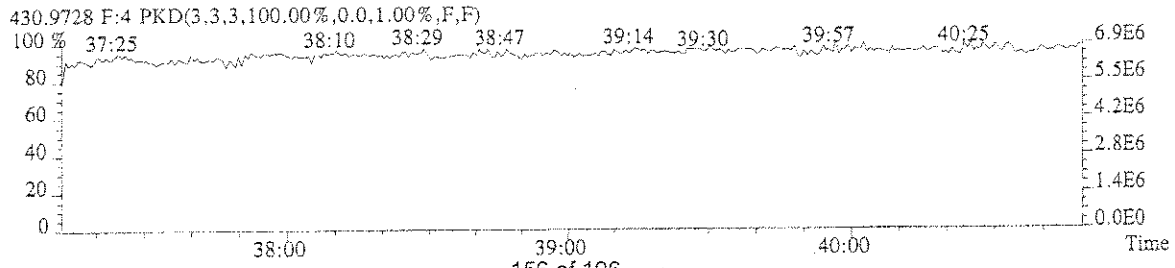
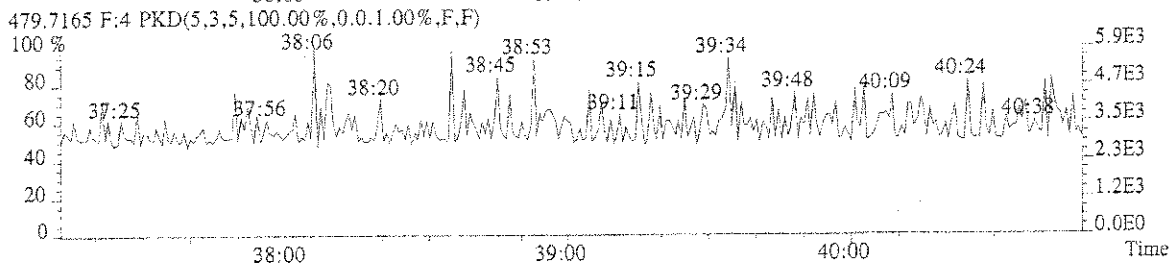
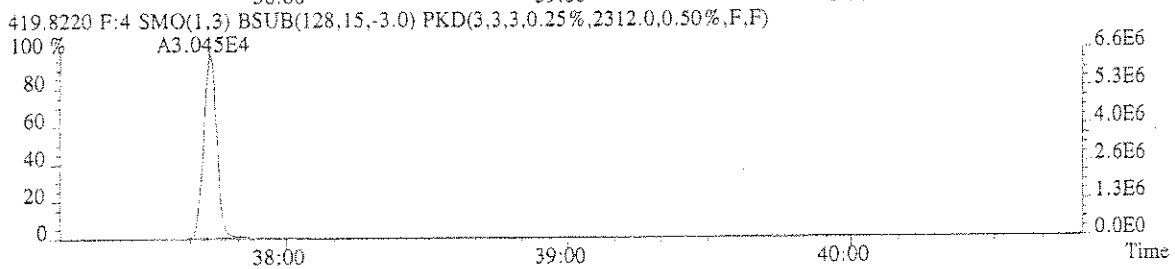
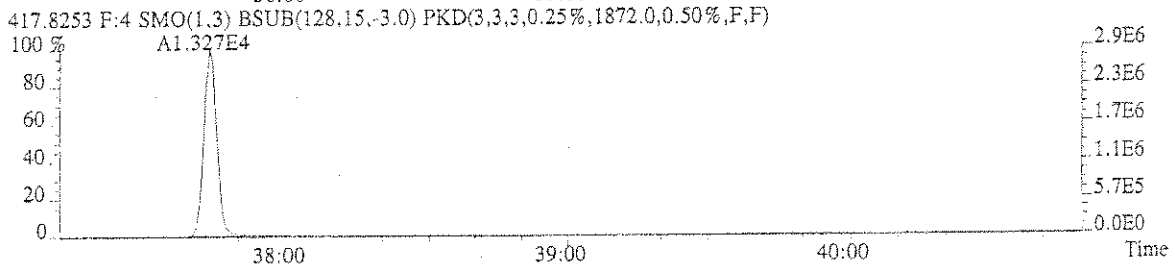
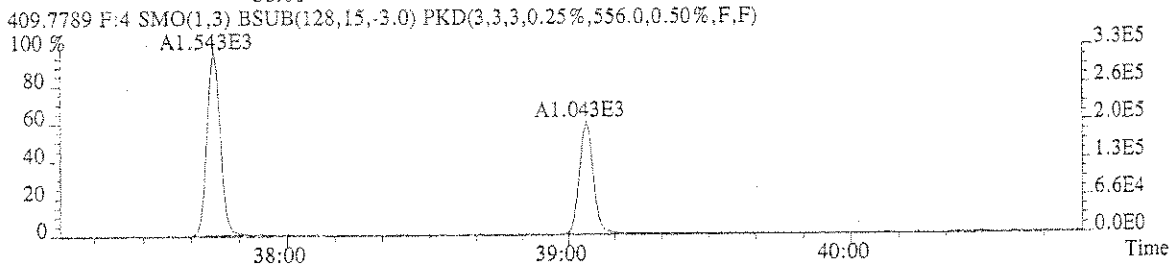
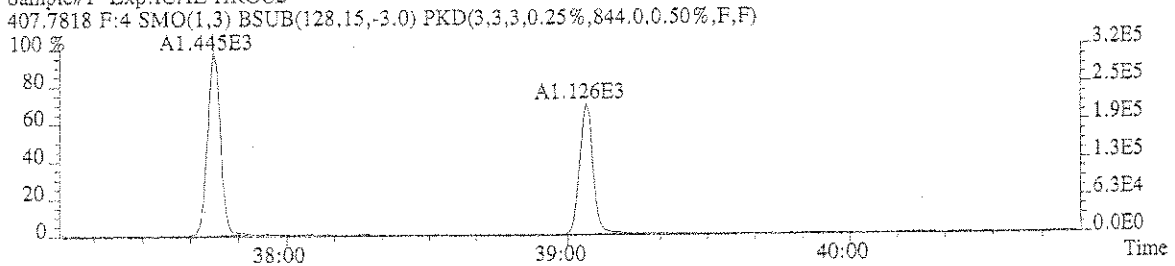
403.8529 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,256.0,0.40%,F,F)



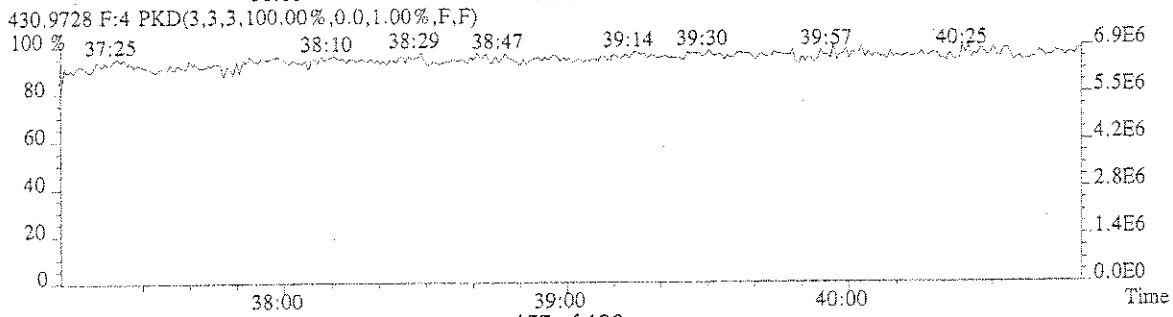
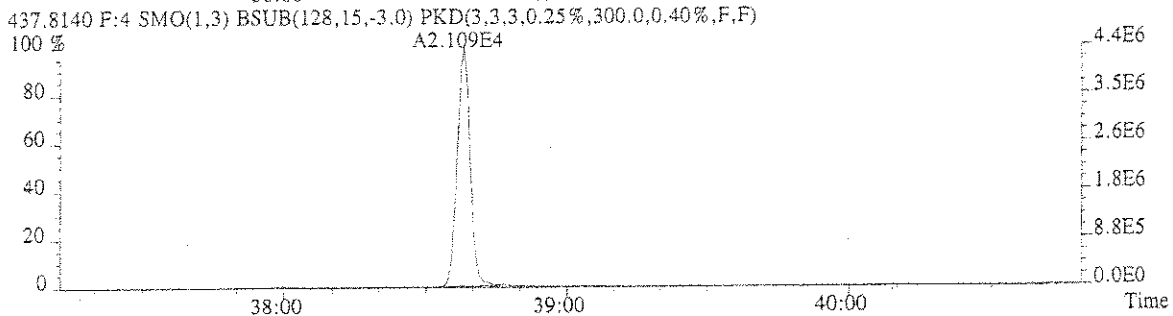
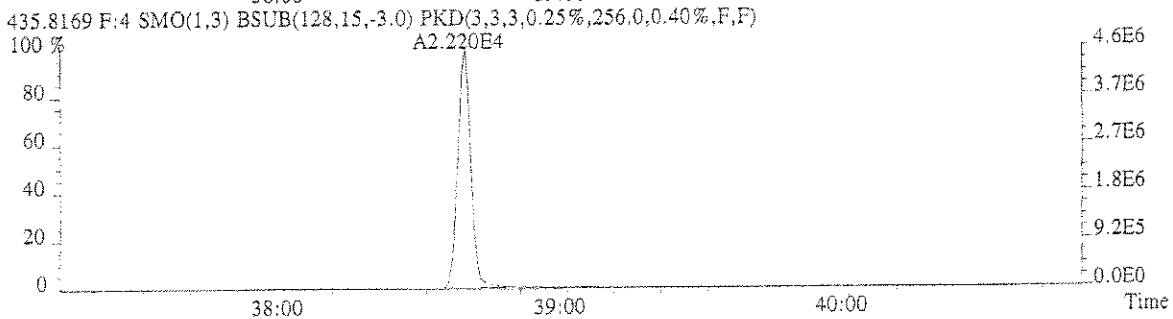
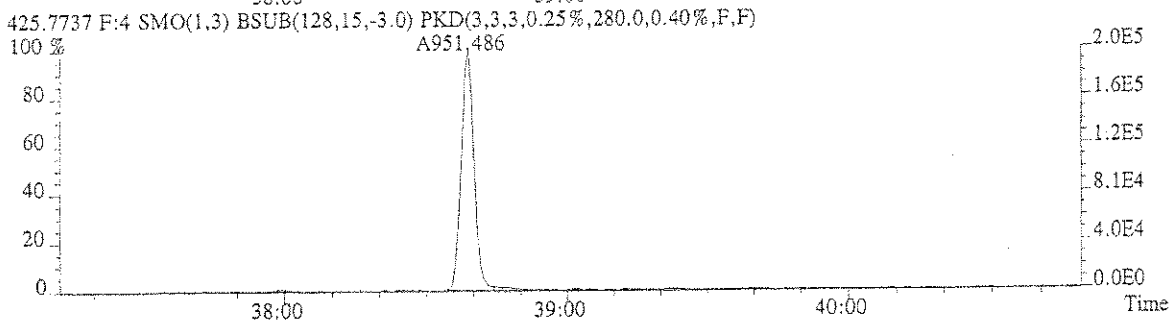
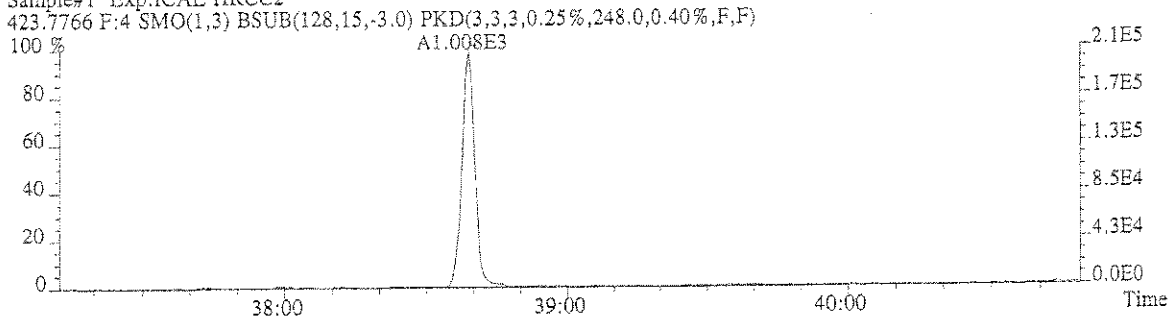
430.9728 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U120207 #1-327 Acq: 2-APR-2007 14:42:23 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC2

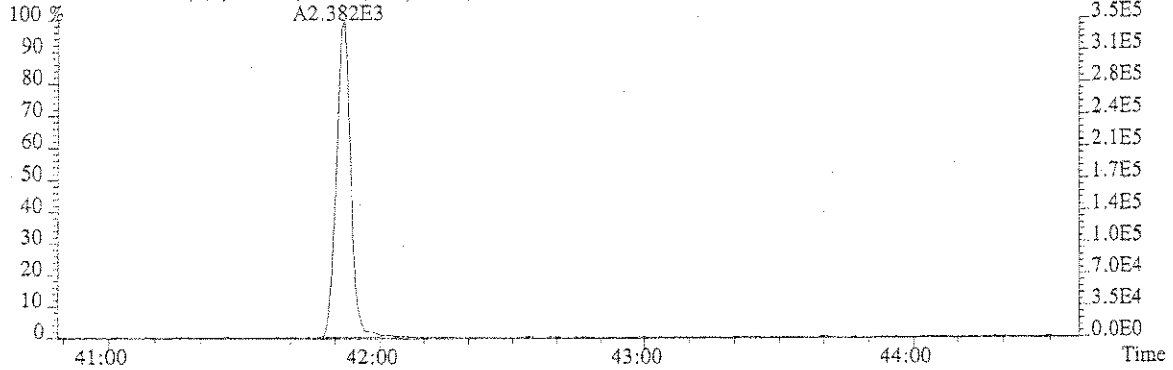


File:U120207 #1-327 Acq: 2-APR-2007 14:42:23 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC2

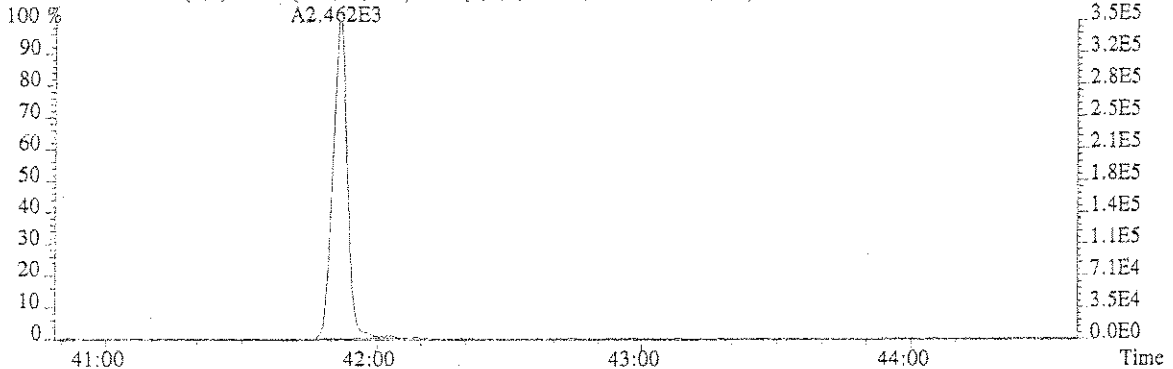


File:U120207 #1-420 Acq: 2-APR-2007 14:42:23 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC2

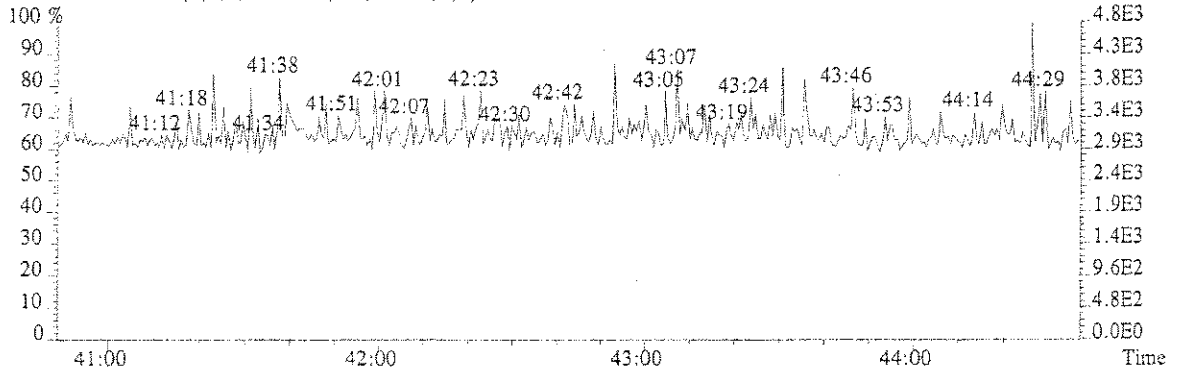
441.7428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,320.0,0.40%,F,F)



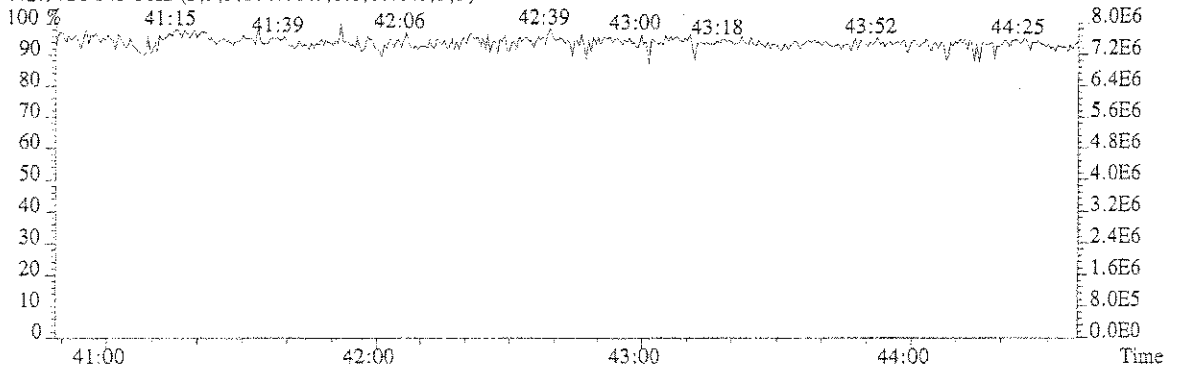
443.7399 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,572.0,0.40%,F,F)



513.6775 F:5 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



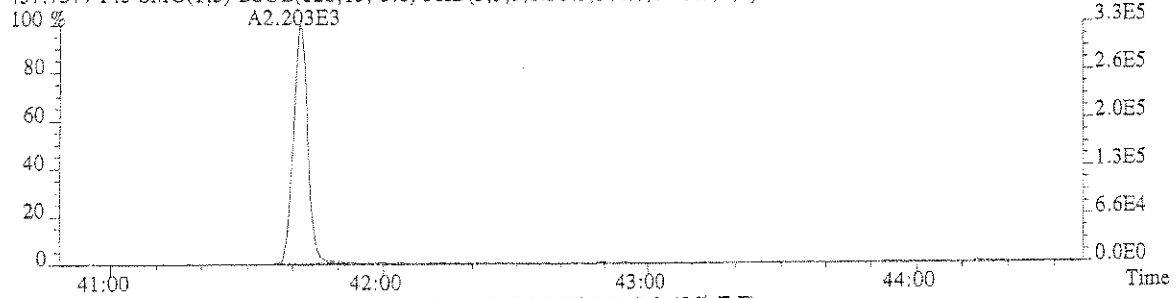
442.9728 F:5 PKD(3,3,3,100.00%,0.0,0.40%,F,F)



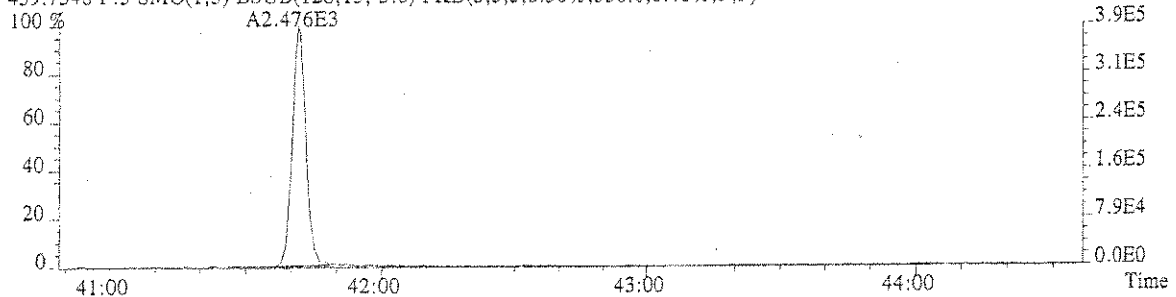
File:U120207 #1-420 Acq: 2-APR-2007 14:42:23 Probe EI+ Magnet SIR VG BioTech Mass spectf

Sample#1 Exp:ICAL HRCC2

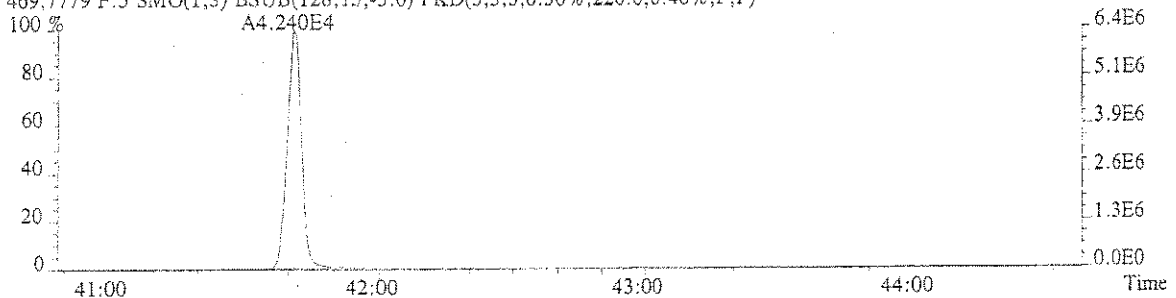
457.7377 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,344.0,0.40%,F,F)



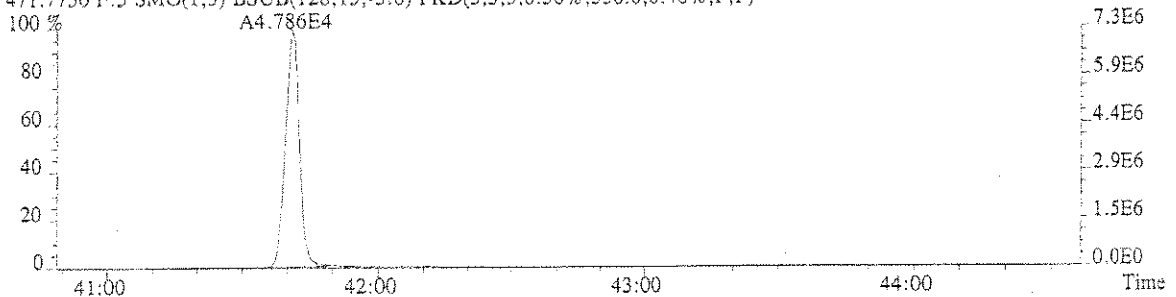
459.7348 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,356.0,0.40%,F,F)



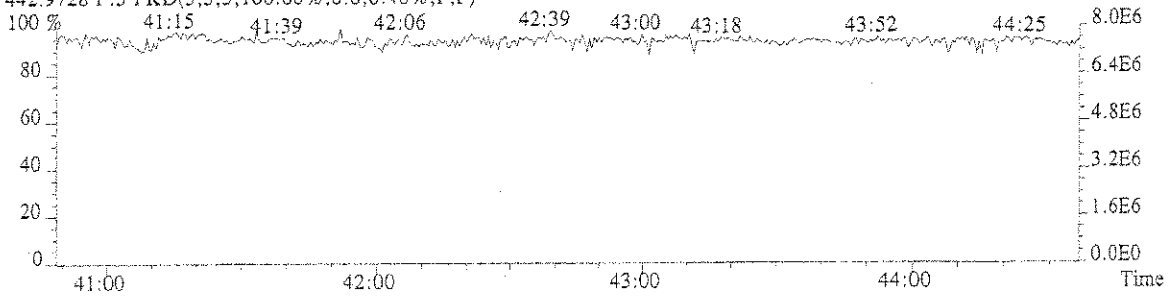
469.7779 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,220.0,0.40%,F,F)



471.7750 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,356.0,0.40%,F,F)



442.9728 F:5 PKD(3,3,3,100.00%,0.0,0.40%,F,F)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
ICAL HRCC3

Run #3 Filename U120208 Samp: 1 Inj: 1 Acquired: 2-APR-07 15:34:13
Processed: 3-APR-07 08:06:18 Sample ID: ICAL HRCC3

Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?
1 Unk	2,3,7,8-TCDF	27:16	1.257e+03	1.682e+03	0.75	yes	no
2 Unk	1,2,3,7,8-PeCDF	31:32	5.345e+03	3.351e+03	1.60	yes	no
3 Unk	2,3,4,7,8-PeCDF	32:16	5.574e+03	3.542e+03	1.57	yes	no
4 Unk	1,2,3,4,7,8-HxCDF	35:03	5.889e+03	4.514e+03	1.30	yes	no
5 Unk	1,2,3,6,7,8-HxCDF	35:09	5.594e+03	4.513e+03	1.24	yes	no
6 Unk	2,3,4,6,7,8-HxCDF	35:37	5.001e+03	4.084e+03	1.22	yes	no
7 Unk	1,2,3,7,8,9-HxCDF	36:19	4.059e+03	3.286e+03	1.24	yes	no
8 Unk	1,2,3,4,6,7,8-HpCDF	37:45	5.042e+03	4.920e+03	1.02	yes	no
9 Unk	1,2,3,4,7,8,9-HpCDF	39:04	3.653e+03	3.742e+03	0.98	yes	no
10 Unk	OCDF	41:51	7.930e+03	8.579e+03	0.92	yes	no
11 Unk	2,3,7,8-TCDD	28:05	9.567e+02	1.238e+03	0.77	yes	no
12 Unk	1,2,3,7,8-PeCDD	32:37	3.874e+03	2.391e+03	1.62	yes	no
13 Unk	1,2,3,4,7,8-HxCDD	35:44	3.993e+03	3.083e+03	1.30	yes	no
14 Unk	1,2,3,6,7,8-HxCDD	35:48	3.822e+03	3.364e+03	1.14	yes	no
15 Unk	1,2,3,7,8,9-HxCDD	36:06	3.694e+03	3.098e+03	1.19	yes	no
16 Unk	1,2,3,4,6,7,8-HpCDD	38:39	3.463e+03	3.302e+03	1.05	yes	no
17 Unk	OCDD	41:41	7.135e+03	7.995e+03	0.89	yes	no
18 IS	13C-2,3,7,8-TCDF	27:16	6.817e+03	8.074e+03	0.84	yes	no
19 IS	13C-1,2,3,7,8-PeCDF	31:31	1.147e+04	7.170e+03	1.60	yes	no
20 IS	13C-1,2,3,4,7,8-HxCDF	35:02	1.429e+04	2.829e+04	0.51	yes	no
21 IS	13C-1,2,3,4,6,7,8-HpCDF	37:44	1.087e+04	2.552e+04	0.43	yes	no
22 IS	13C-2,3,7,8-TCDD	28:04	5.027e+03	6.178e+03	0.81	yes	no
23 IS	13C-1,2,3,7,8-PeCDD	32:36	8.273e+03	5.275e+03	1.57	yes	no
24 IS	13C-1,2,3,6,7,8-HxCDD	35:48	2.017e+04	1.614e+04	1.25	yes	no
25 IS	13C-1,2,3,4,6,7,8-HpCDD	38:38	1.859e+04	1.789e+04	1.04	yes	no
26 IS	13C-OCDD	41:41	3.588e+04	4.023e+04	0.89	yes	no
27 RS/RT	13C-1,2,3,4-TCDD	27:52	5.824e+03	7.289e+03	0.80	yes	no
28 RS/RT	13C-1,2,3,7,8,9-HxCDD	36:05	2.058e+04	1.633e+04	1.26	yes	no
29 C/Up	37Cl-2,3,7,8-TCDD	28:05	2.167e+03				

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Columbia Analytical Services, Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
ICAL HRCC3

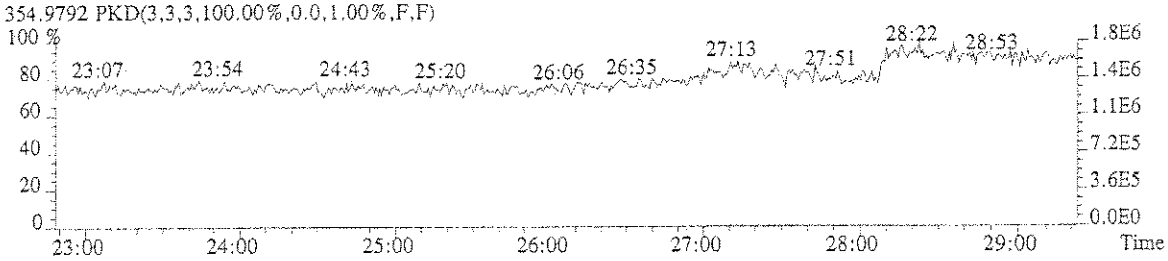
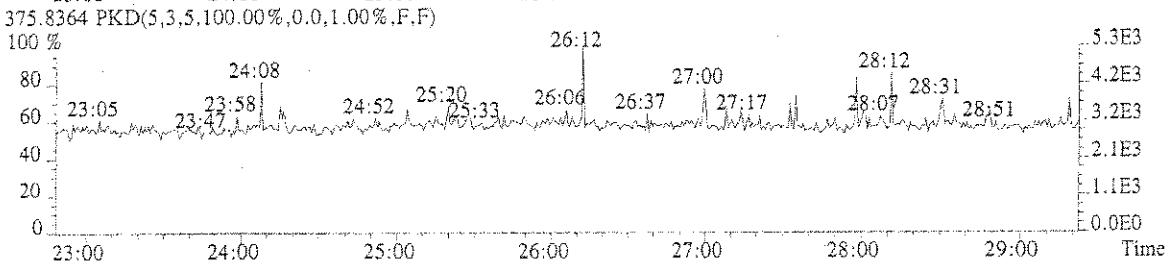
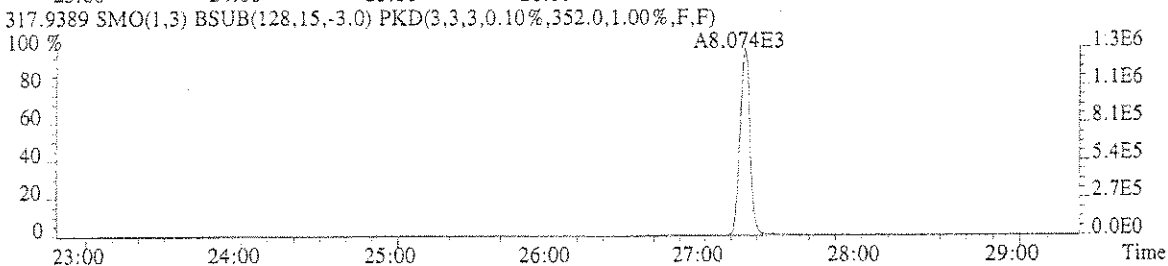
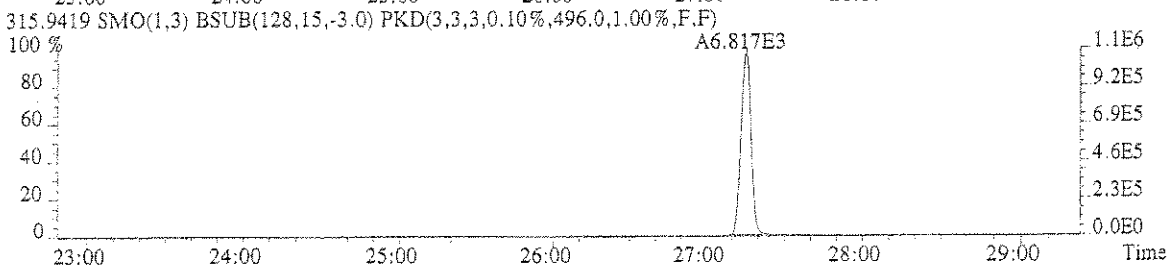
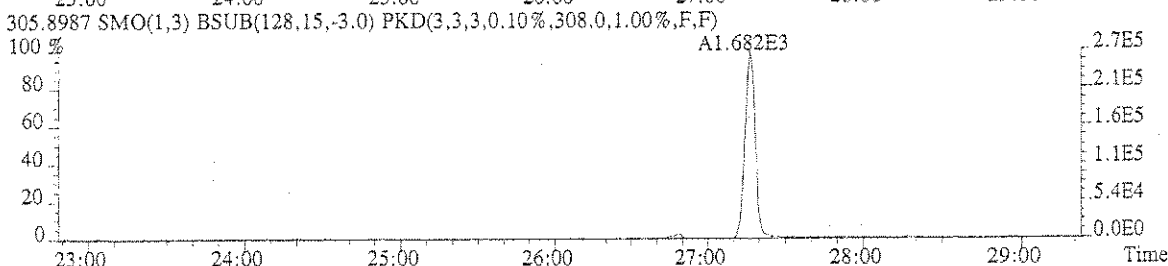
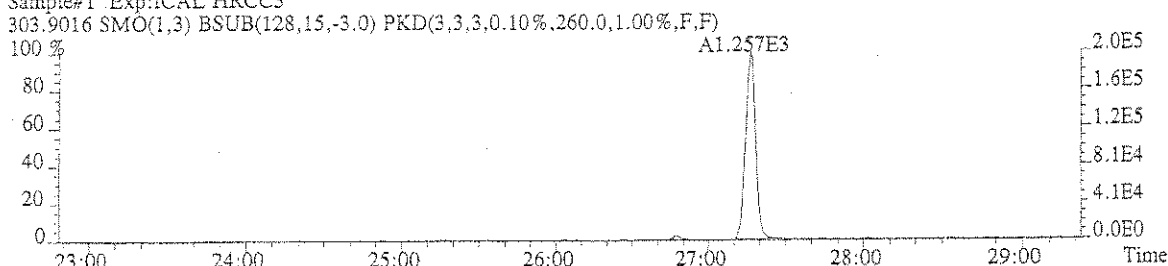
Run #3 Filename U120208 Samp: 1 Inj: 1 Acquired: 2-APR-07 15:34:13

Processed: 3-APR-07 08:06:18 LAB. ID: ICAL HRCC3

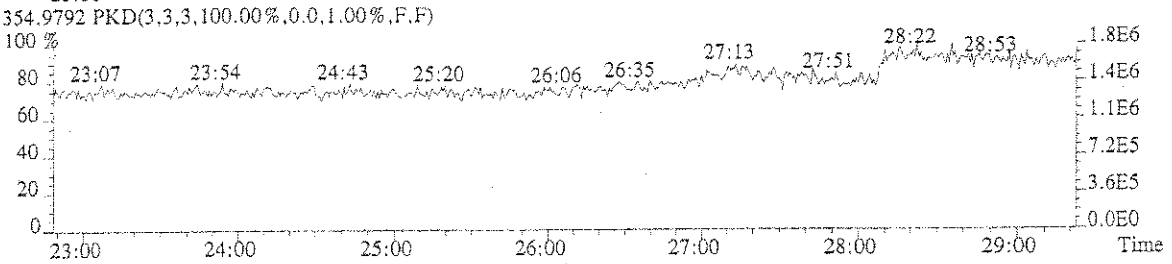
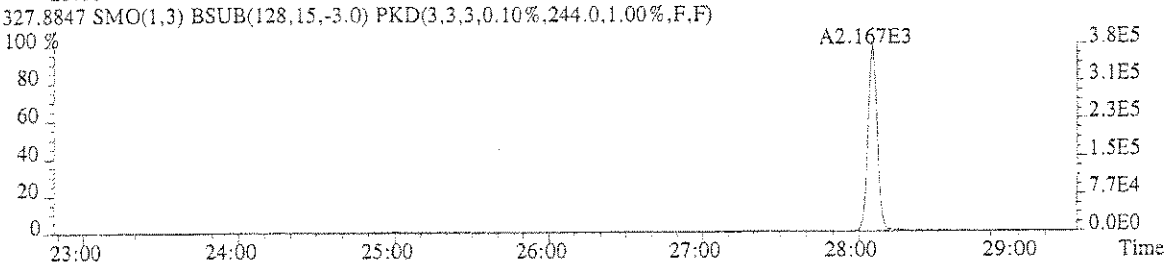
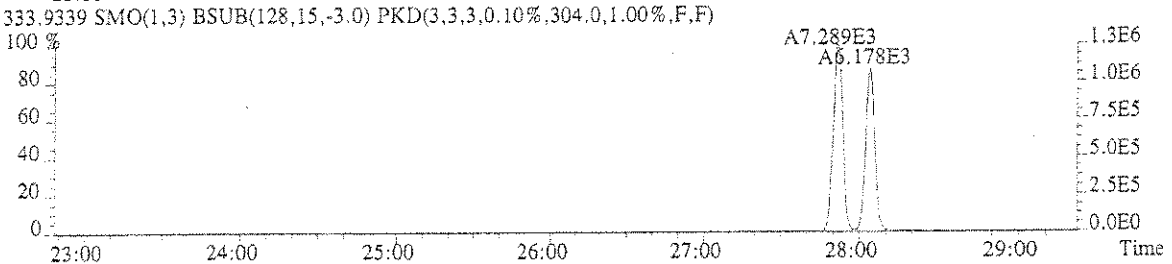
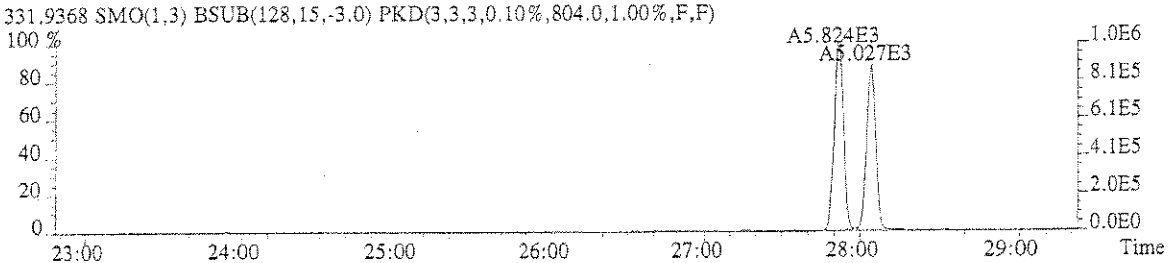
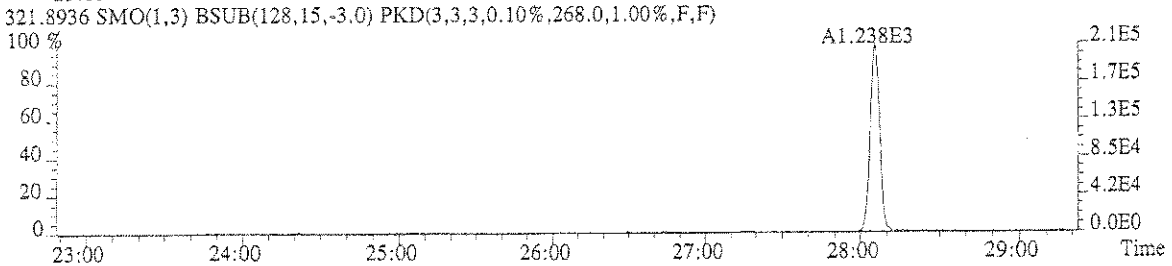
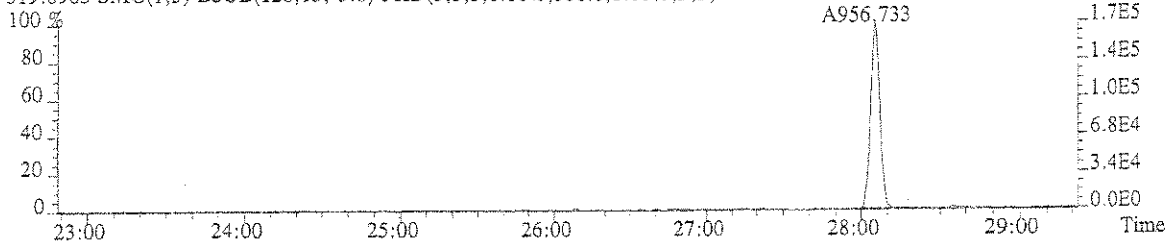
	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2,3,7,8-TCDF	2.02e+05	2.60e+02	7.8e+02	2.68e+05	3.08e+02	8.7e+02
2	1,2,3,7,8-PeCDF	1.02e+06	2.84e+02	3.6e+03	6.46e+05	2.60e+02	2.5e+03
3	2,3,4,7,8-PeCDF	1.10e+06	2.84e+02	3.9e+03	7.06e+05	2.60e+02	2.7e+03
4	1,2,3,4,7,8-HxCDF	1.31e+06	3.00e+02	4.4e+03	1.03e+06	1.84e+02	5.6e+03
5	1,2,3,6,7,8-HxCDF	1.16e+06	3.00e+02	3.9e+03	9.40e+05	1.84e+02	5.1e+03
6	2,3,4,6,7,8-HxCDF	1.09e+06	3.00e+02	3.6e+03	8.63e+05	1.84e+02	4.7e+03
7	1,2,3,7,8,9-HxCDF	8.53e+05	3.00e+02	2.8e+03	6.82e+05	1.84e+02	3.7e+03
8	1,2,3,4,6,7,8-HpCDF	1.10e+06	1.62e+03	6.8e+02	1.07e+06	7.15e+02	1.5e+03
9	1,2,3,4,7,8,9-HpCDF	7.26e+05	1.62e+03	4.5e+02	7.22e+05	7.16e+02	1.0e+03
10	OCDF	1.18e+06	2.88e+02	4.1e+03	1.31e+06	7.16e+02	1.8e+03
11	2,3,7,8-TCDD	1.69e+05	3.08e+02	5.5e+02	2.11e+05	2.68e+02	7.9e+02
12	1,2,3,7,8-PeCDD	7.78e+05	3.56e+02	2.2e+03	4.76e+05	2.68e+02	1.8e+03
13	1,2,3,4,7,8-HxCDD	8.83e+05	3.56e+02	2.5e+03	7.24e+05	2.16e+02	3.4e+03
14	1,2,3,6,7,8-HxCDD	8.85e+05	3.56e+02	2.5e+03	7.16e+05	2.16e+02	3.3e+03
15	1,2,3,7,8,9-HxCDD	8.15e+05	3.56e+02	2.3e+03	6.75e+05	2.16e+02	3.1e+03
16	1,2,3,4,6,7,8-HpCDD	7.26e+05	2.80e+02	2.6e+03	7.05e+05	3.56e+02	2.0e+03
17	OCDD	1.09e+06	2.28e+02	4.8e+03	1.23e+06	2.16e+02	5.7e+03
18	13C-2,3,7,8-TCDF	1.14e+06	4.96e+02	2.3e+03	1.35e+06	3.52e+02	3.8e+03
19	13C-1,2,3,7,8-PeCDF	2.24e+06	2.28e+02	9.8e+03	1.44e+06	1.40e+02	1.0e+04
20	13C-1,2,3,4,7,8-HxCDF	3.12e+06	1.92e+02	1.6e+04	6.07e+06	4.04e+02	1.5e+04
21	13C-1,2,3,4,6,7,8-HpCDF	2.39e+06	1.98e+03	1.2e+03	5.55e+06	5.60e+02	9.9e+03
22	13C-2,3,7,8-TCDD	8.92e+05	8.04e+02	1.1e+03	1.09e+06	3.04e+02	3.6e+03
23	13C-1,2,3,7,8-PeCDD	1.67e+06	2.52e+02	6.6e+03	1.05e+06	2.52e+02	4.2e+03
24	13C-1,2,3,6,7,8-HxCDD	4.51e+06	3.48e+02	1.3e+04	3.62e+06	3.76e+02	9.6e+03
25	13C-1,2,3,4,6,7,8-HpCDD	3.93e+06	4.04e+02	9.7e+03	3.76e+06	2.40e+02	1.6e+04
26	13C-OCDD	5.43e+06	4.08e+02	1.3e+04	6.01e+06	3.16e+02	1.9e+04
27	13C-1,2,3,4-TCDD	1.01e+06	8.04e+02	1.3e+03	1.25e+06	3.04e+02	4.1e+03
28	13C-1,2,3,7,8,9-HxCDD	4.59e+06	3.48e+02	1.3e+04	3.57e+06	3.76e+02	9.5e+03
29	37Cl-2,3,7,8-TCDD	3.83e+05	2.44e+02	1.6e+03			

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10655 Richmond Ave., Suite 130A
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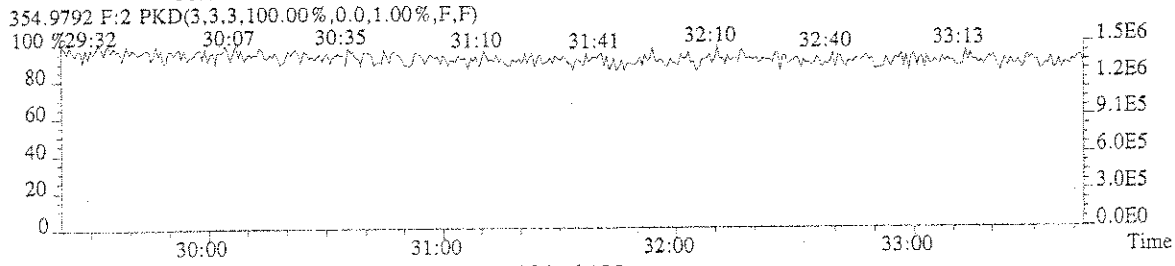
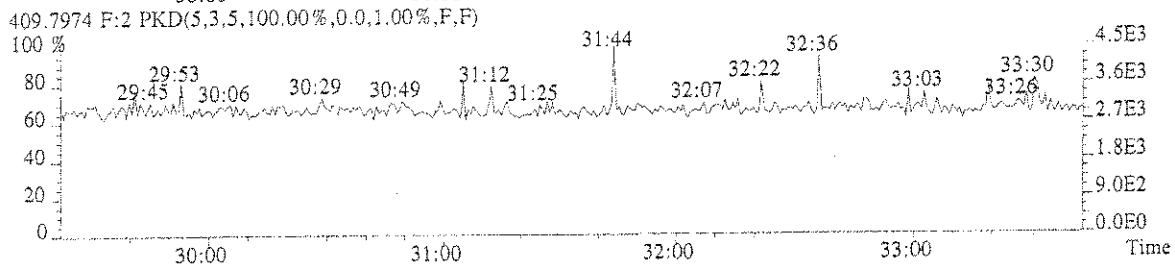
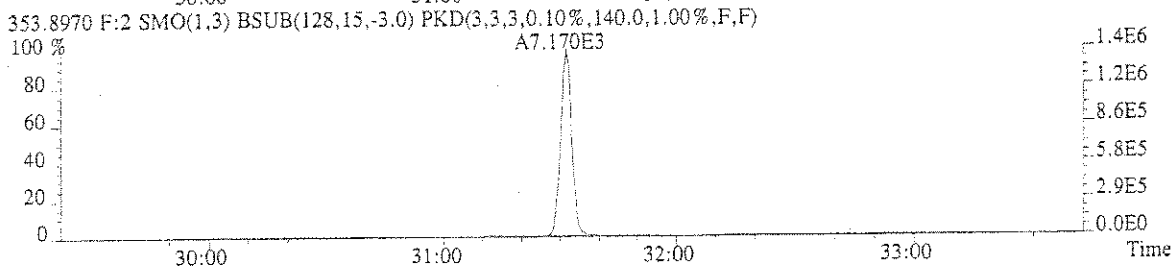
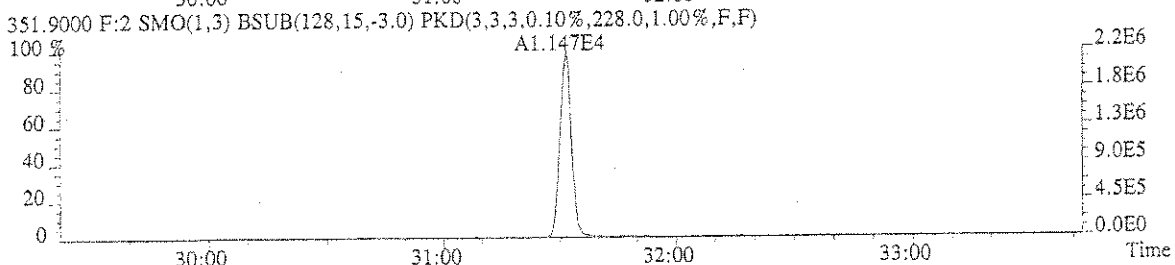
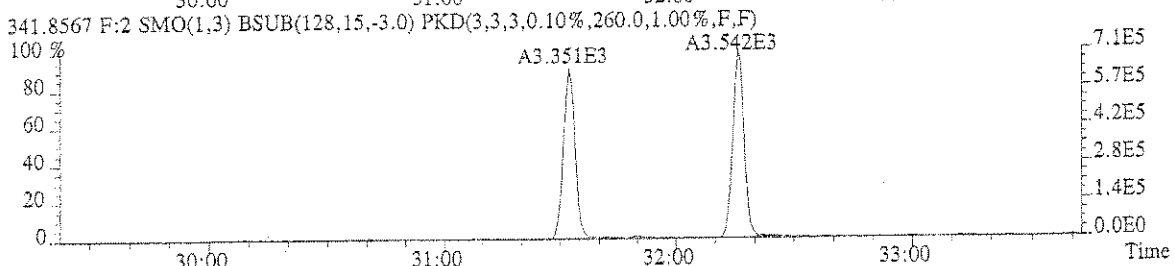
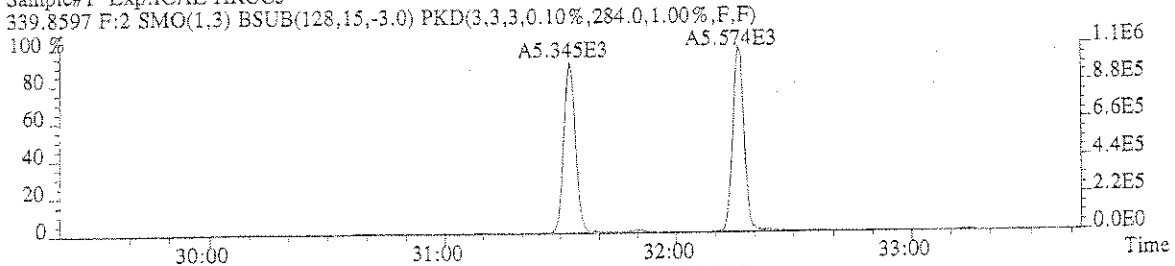
File:U120208 #1-548 Acq: 2-APR-2007 15:34:13 Probe EI+ Magnet SIR VG BioTech Mass spectf
 Sample#1 Exp:ICAL HRCC3



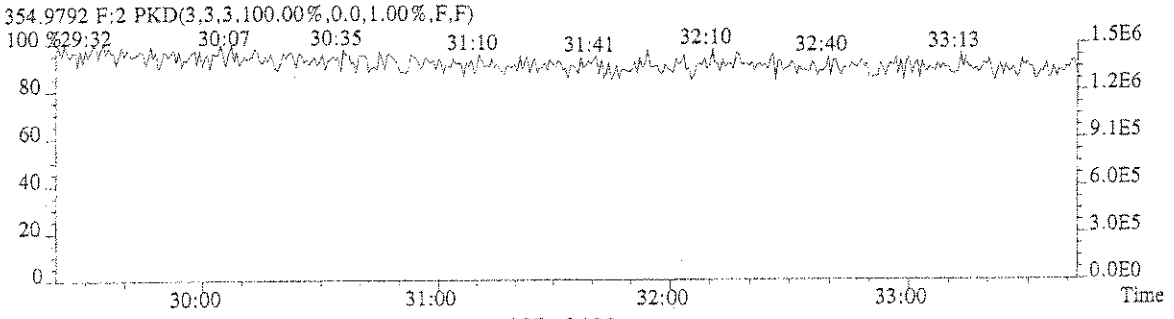
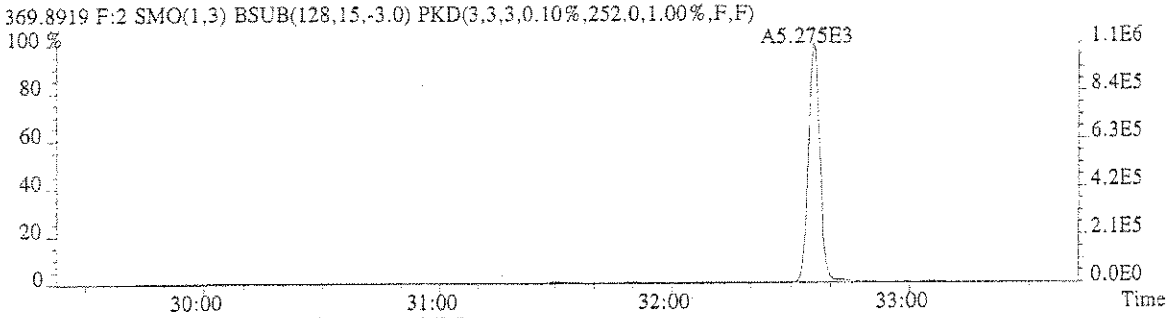
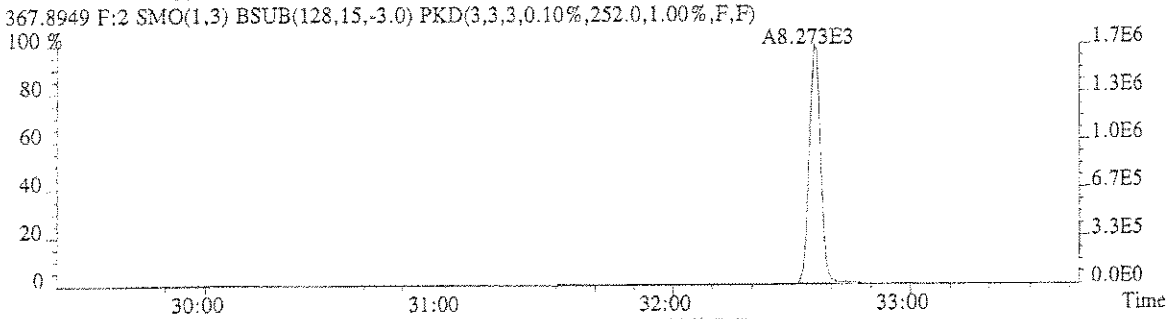
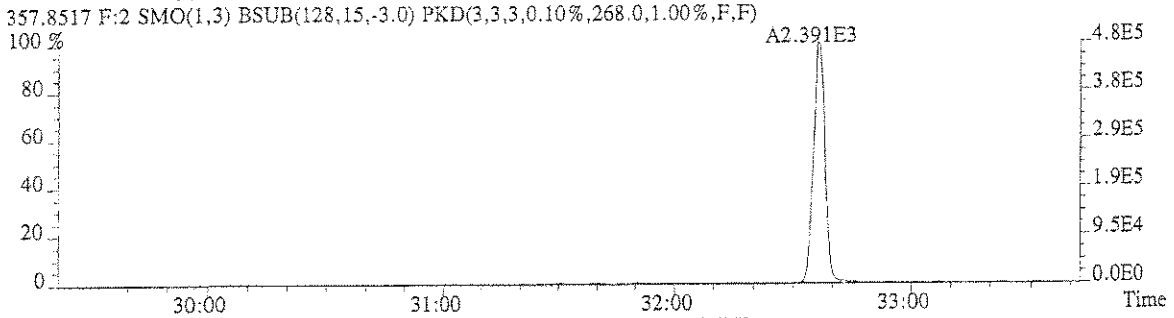
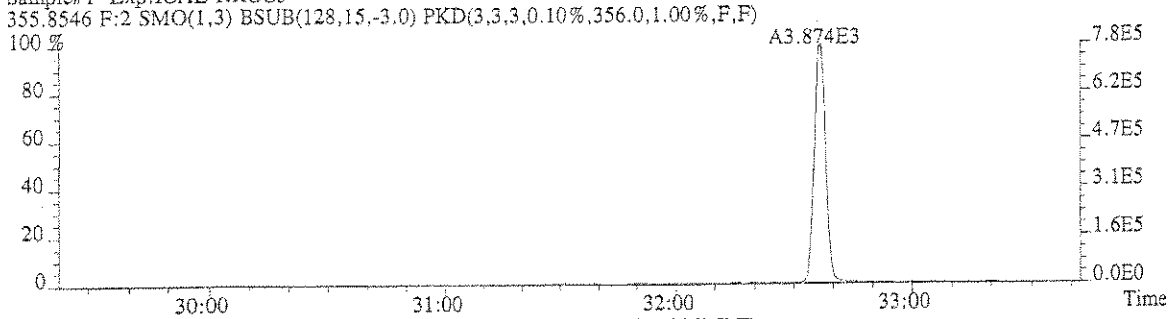
File:U120208 #1-548 Acq: 2-APR-2007 15:34:13 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC3
319.8965 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,308.0,1.00%,F,F)



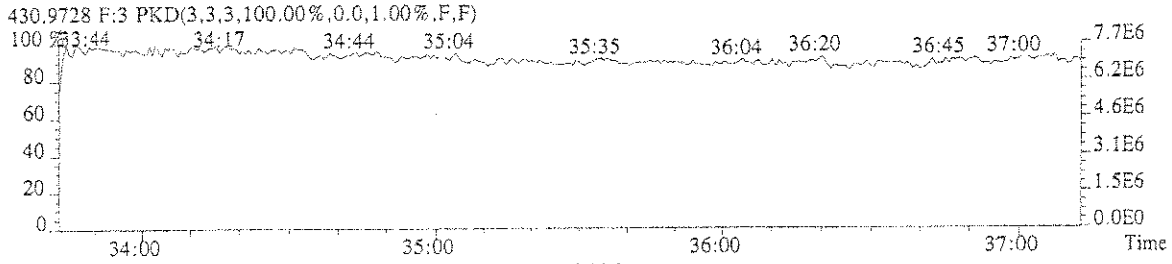
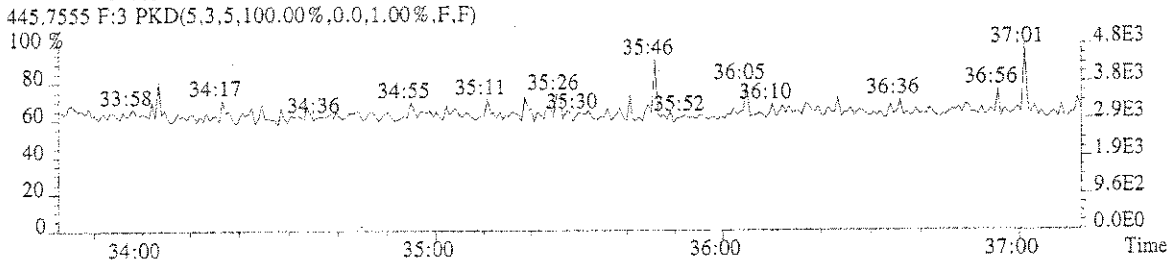
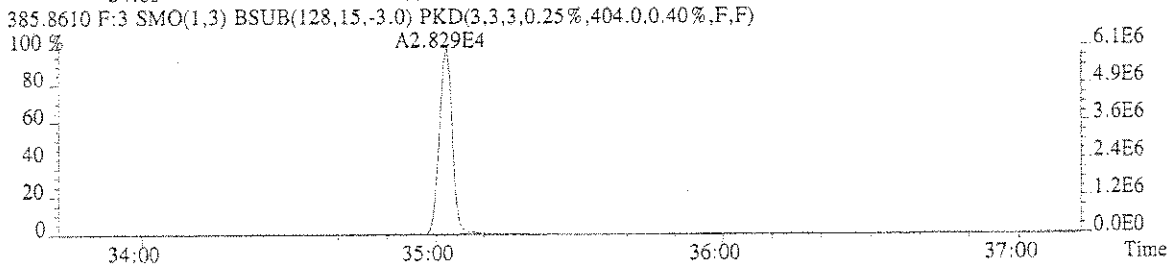
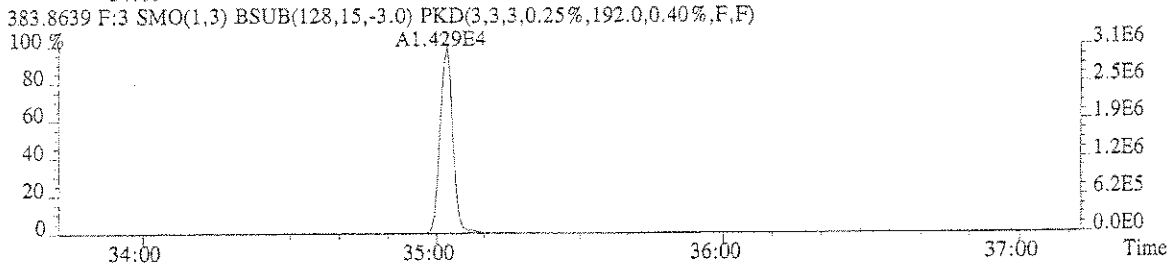
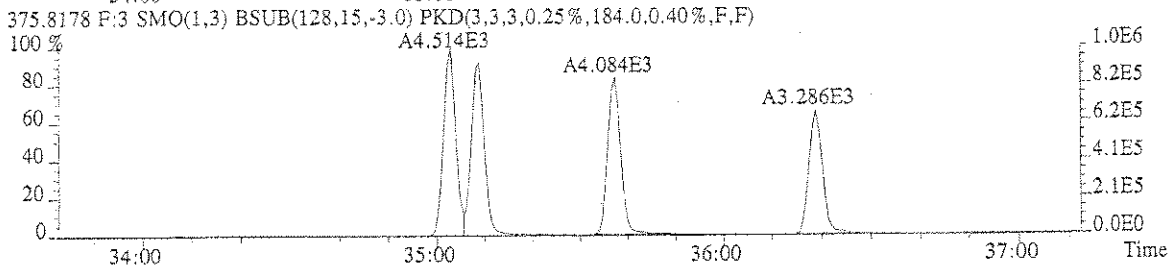
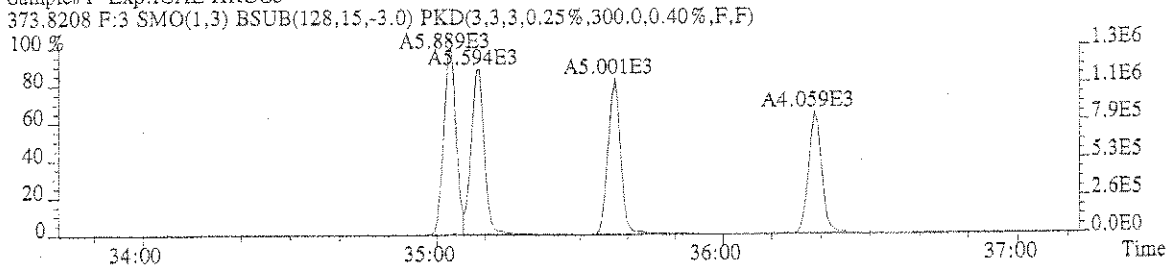
File:U120208 #1-394 Acq: 2-APR-2007 15:34:13 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC3



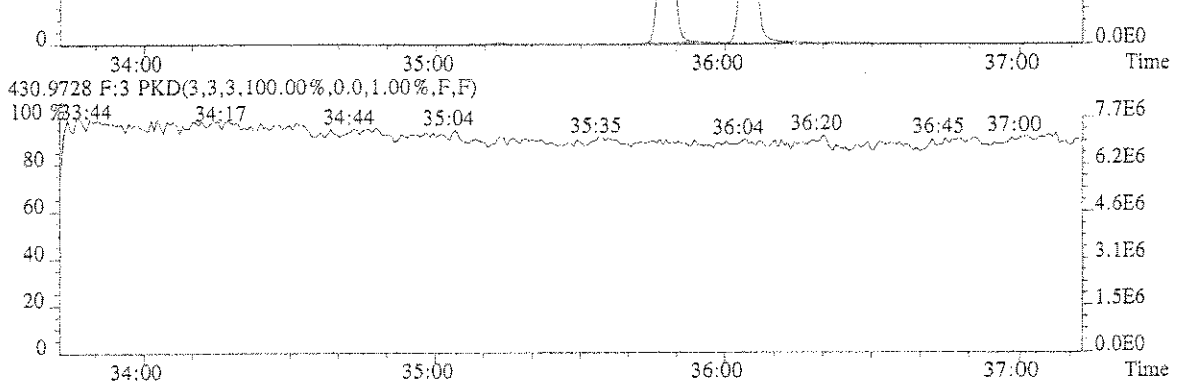
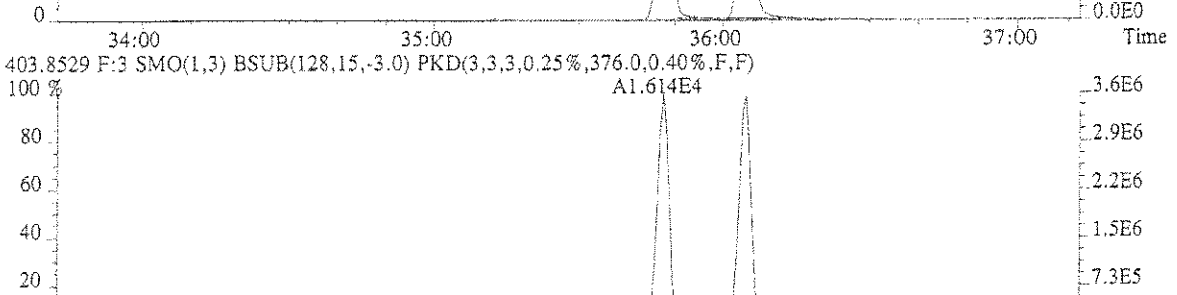
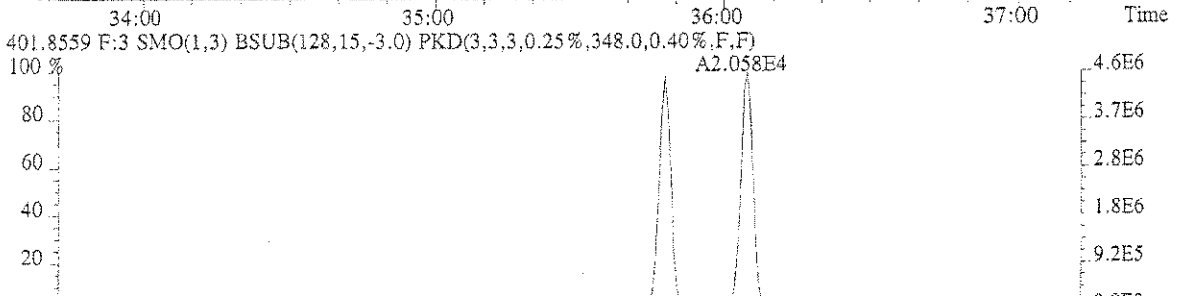
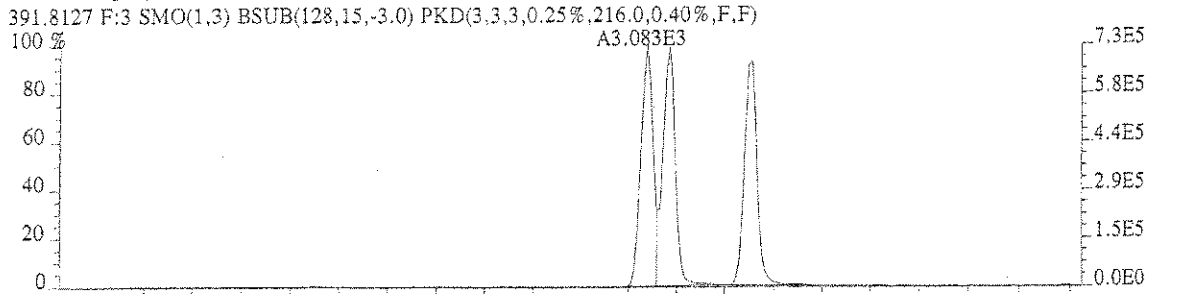
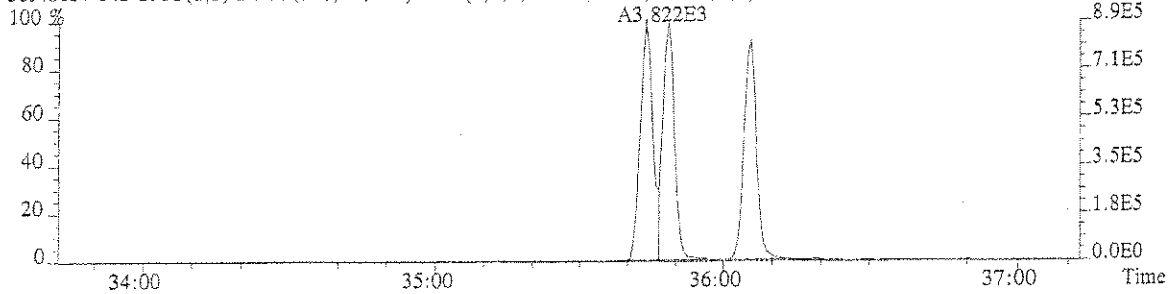
File:U120208 #1-394 Acq: 2-APR-2007 15:34:13 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC3



File:U120208 #1-318 Acq: 2-APR-2007 15:34:13 Probe EI+ Magnet SIR VG BioTech Mass spectr
Sample#1 Exp:ICAL HRCC3



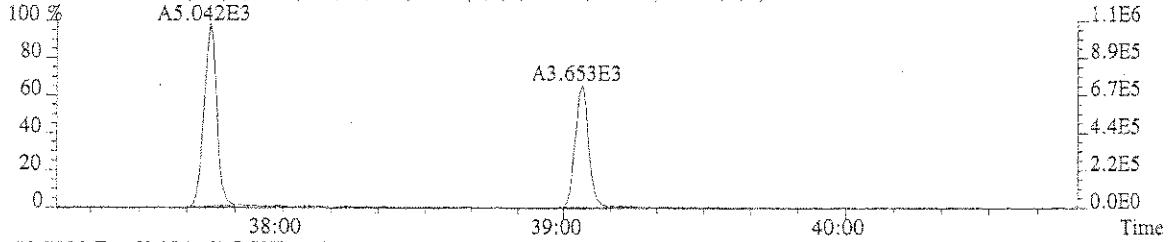
File:U120208 #1-318 Acq: 2-APR-2007 15:34:13 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC3
389.8157 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,356.0,0.40%,F,F)



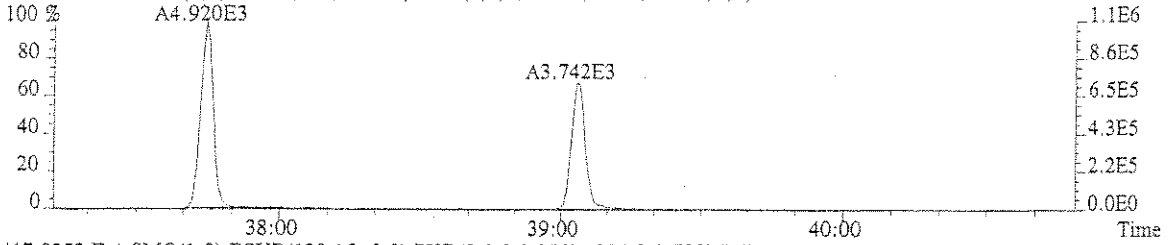
File:U120208 #1-327 Acq: 2-APR-2007 15:34:13 Probe EI+ Magnet SIR VG BioTech Mass spectf

Sample#1 Exp:ICAL HRCC3

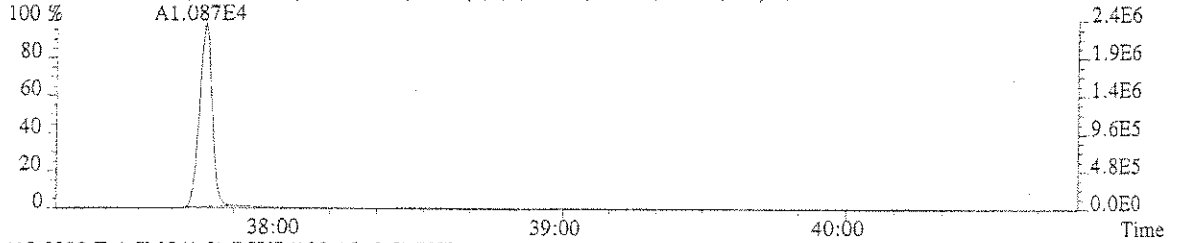
407.7818 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,1616.0,0.50%,F,F)



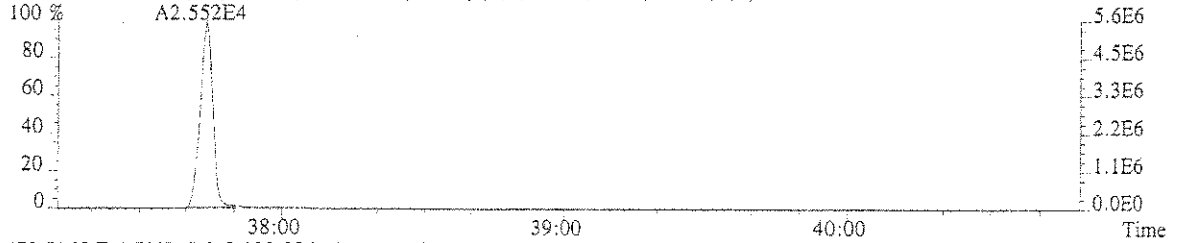
409.7789 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,716.0,0.50%,F,F)



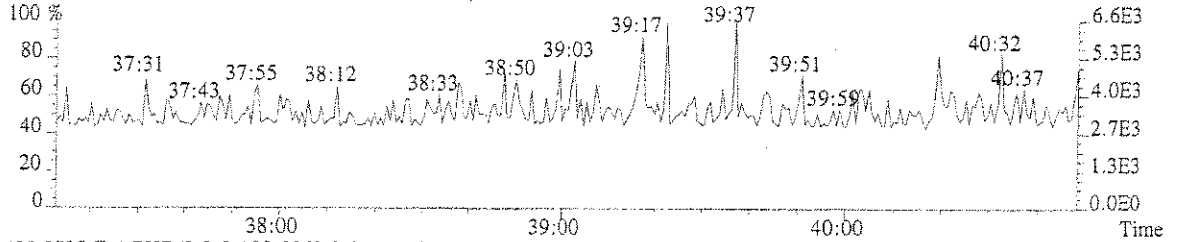
417.8253 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,1984.0,0.50%,F,F)



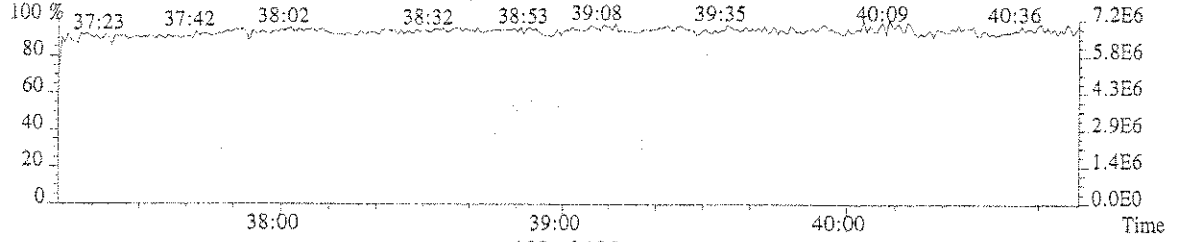
419.8220 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,560.0,0.50%,F,F)



479.7165 F:4 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



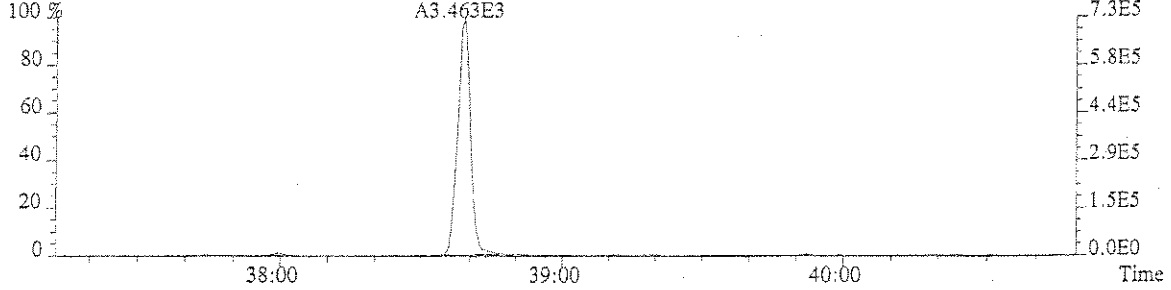
430.9728 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



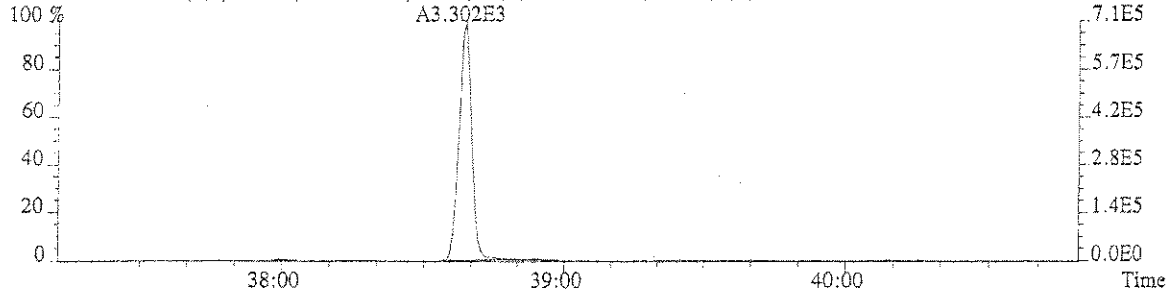
File:U120208 #1-327 Acq: 2-APR-2007 15:34:13 Probe EI+ Magnet SIR VG BioTech Mass spectf

Sample#1 Exp:ICAL HRCC3

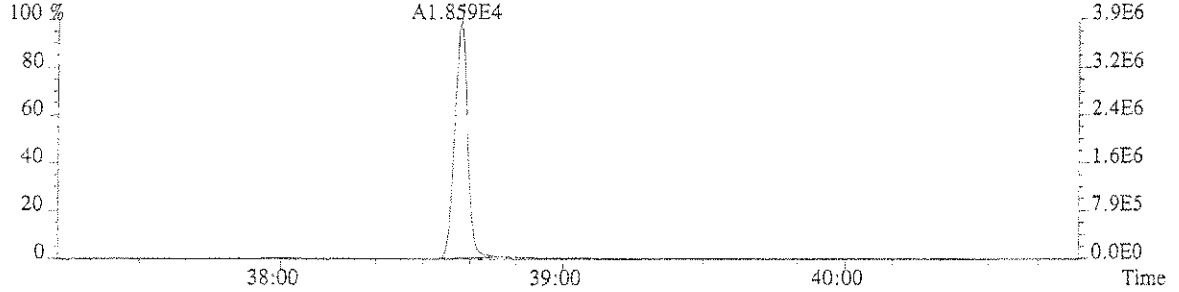
423.7766 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,280.0,0.40%,F,F)



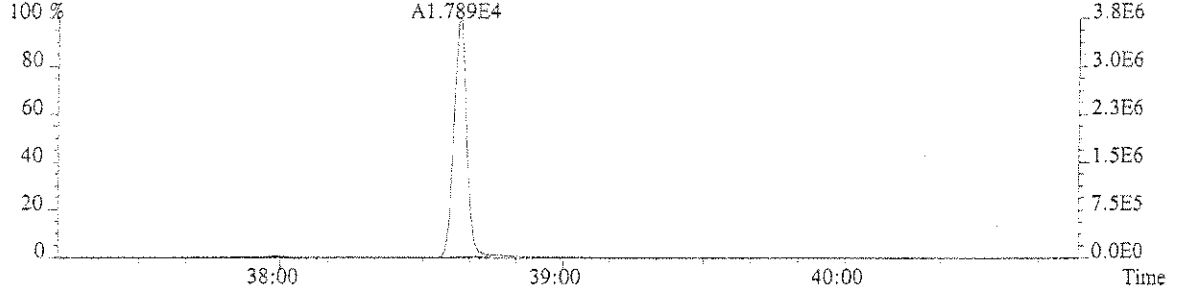
425.7737 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,356.0,0.40%,F,F)



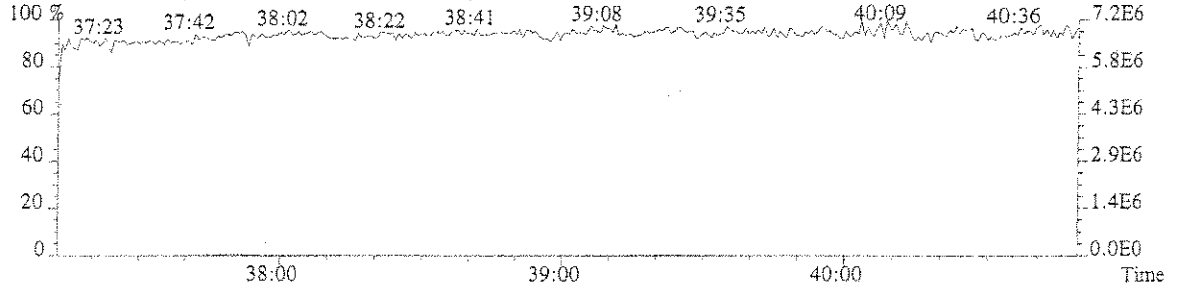
435.8169 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,404.0,0.40%,F,F)



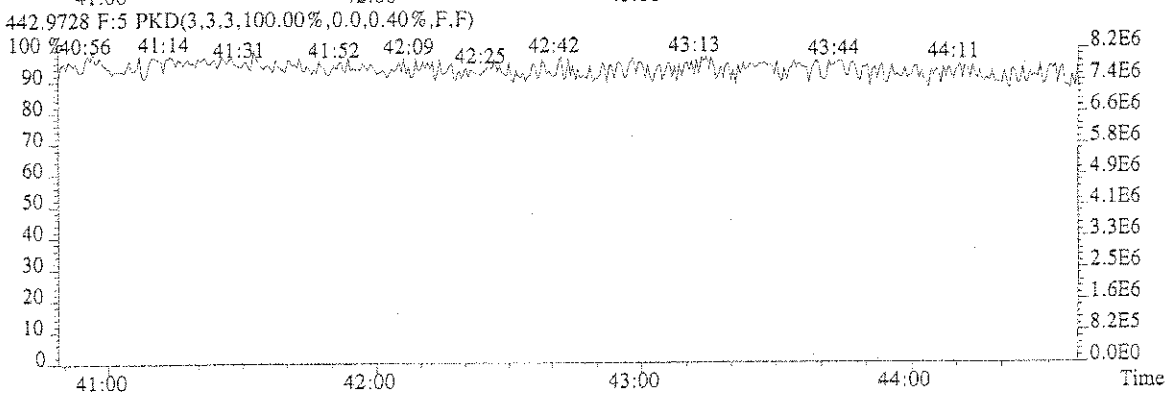
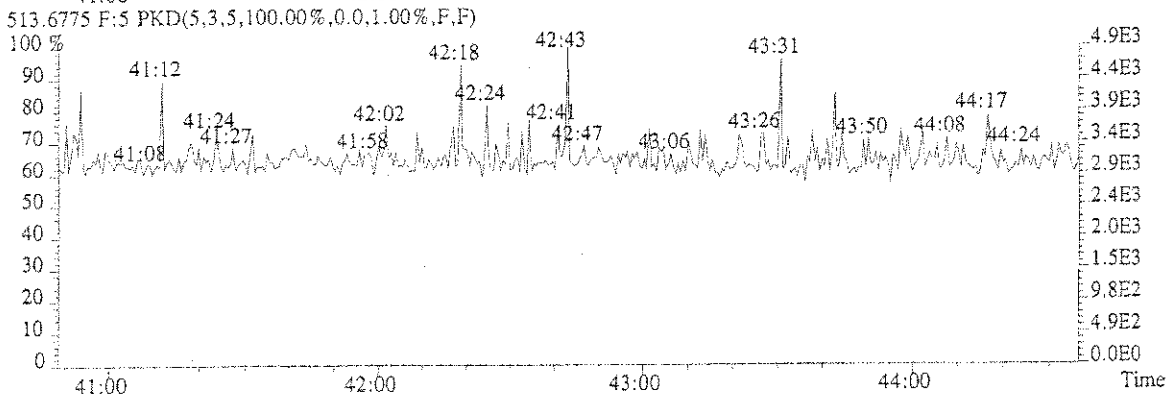
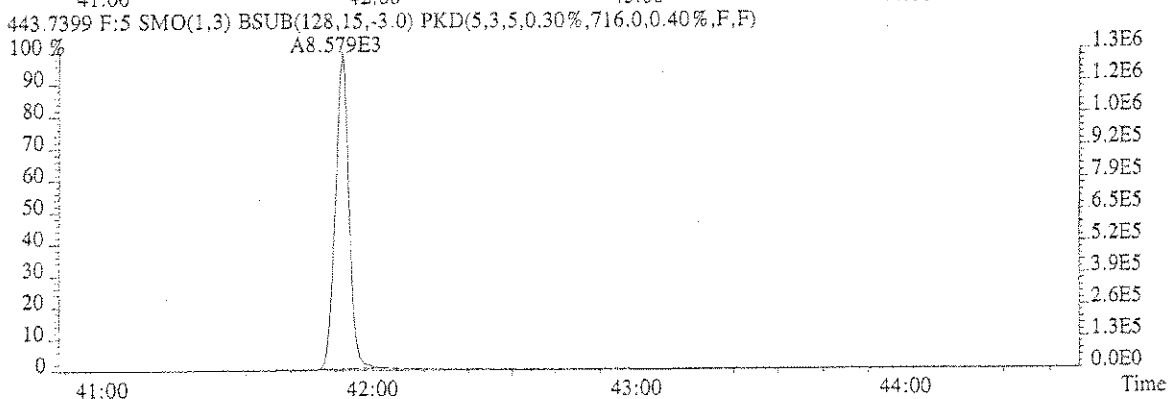
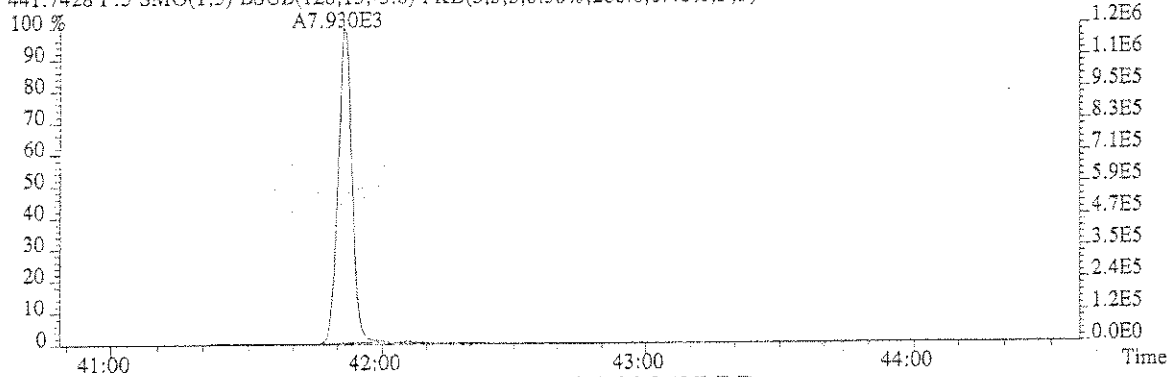
437.8140 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,240.0,0.40%,F,F)



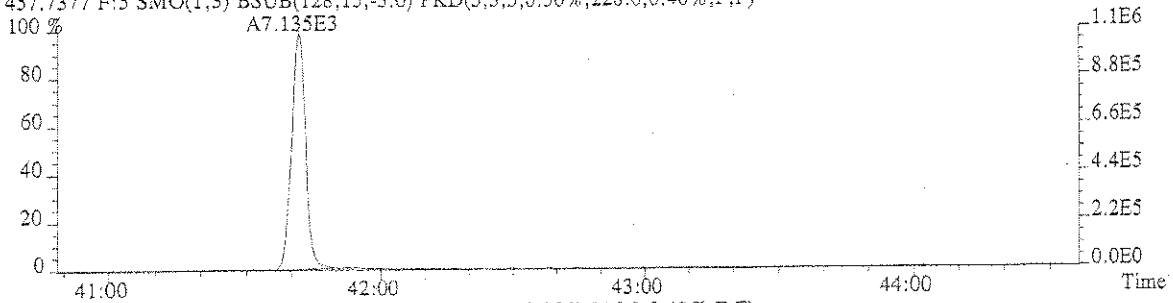
430.9728 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



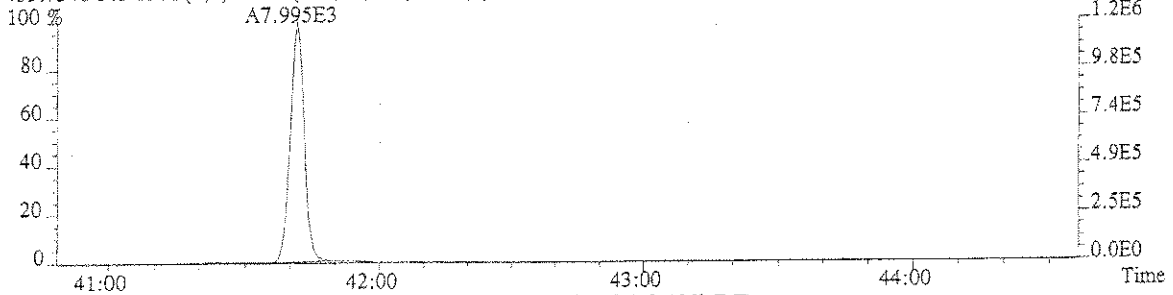
File:U120208 #1-420 Acq: 2-APR-2007 15:34:13 Probe EI+ Magnet SIR VG BioTech Mass spectr
Sample#1 Exp:ICAL HRCC3
441.7428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,288.0,0.40%,F,F)



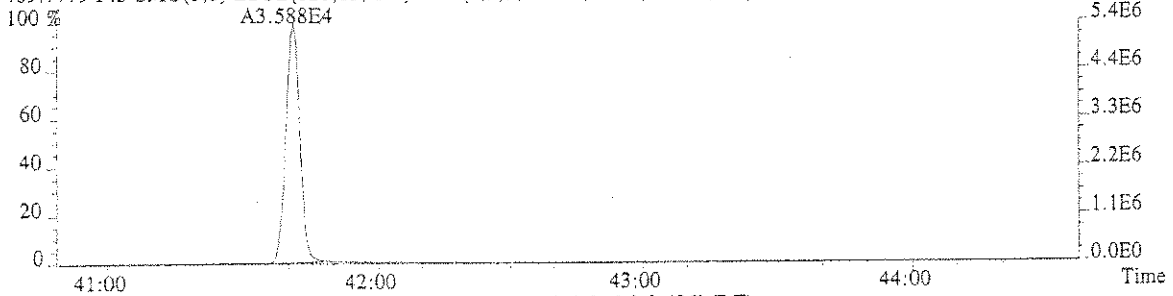
File:U120208 #1-420 Acq: 2-APR-2007 15:34:13 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC3
457.7377 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,228.0,0.40%,F,F)



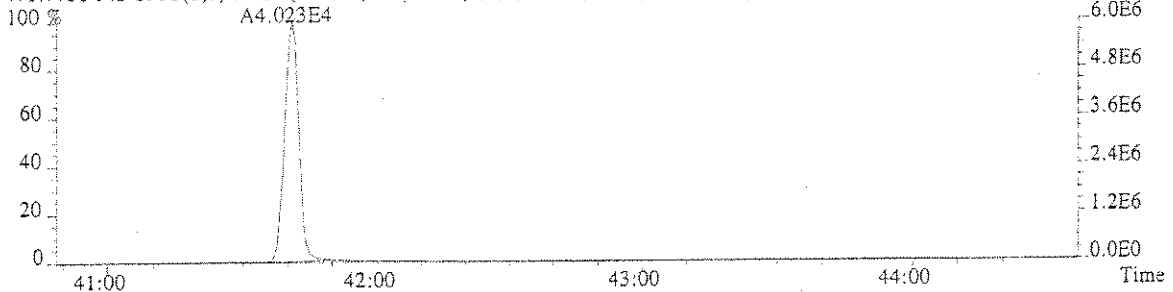
459.7348 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,216.0,0.40%,F,F)



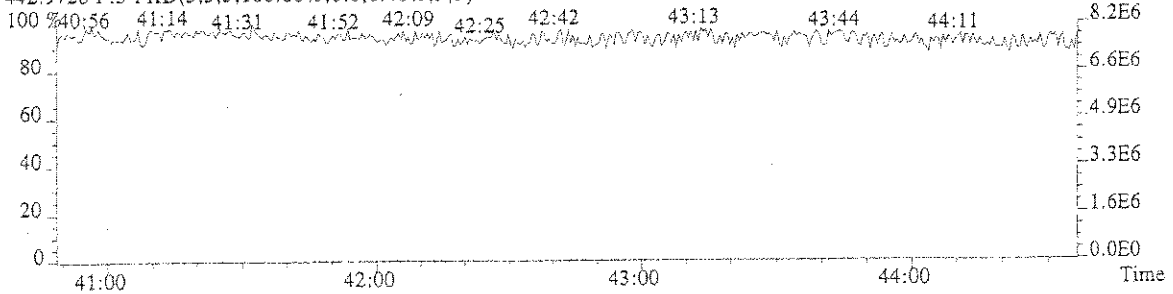
469.7779 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,408.0,0.40%,F,F)



471.7750 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,316.0,0.40%,F,F)



442.9728 F:5 PKD(3,3,3,100.00%,0.0,0.40%,F,F)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
ICAL HRCC4

Run #4 Filename U120209 Samp: 1 Inj: 1 Acquired: 2-APR-07 16:23:37
Processed: 3-APR-07 08:06:20 Sample ID: ICAL HRCC4

Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?
1 Unk	2,3,7,8-TCDF	27:16	6.792e+03	8.584e+03	0.79	yes	no
2 Unk	1,2,3,7,8-PeCDF	31:32	2.874e+04	1.819e+04	1.58	yes	no
3 Unk	2,3,4,7,8-PeCDF	32:16	2.932e+04	1.856e+04	1.58	yes	no
4 Unk	1,2,3,4,7,8-HxCDF	35:03	2.896e+04	2.282e+04	1.27	yes	no
5 Unk	1,2,3,6,7,8-HxCDF	35:09	2.927e+04	2.358e+04	1.24	yes	no
6 Unk	2,3,4,6,7,8-HxCDF	35:37	2.674e+04	2.102e+04	1.27	yes	no
7 Unk	1,2,3,7,8,9-HxCDF	36:19	2.197e+04	1.726e+04	1.27	yes	no
8 Unk	1,2,3,4,6,7,8-HpCDF	37:45	2.710e+04	2.742e+04	0.99	yes	no
9 Unk	1,2,3,4,7,8,9-HpCDF	39:04	2.051e+04	2.033e+04	1.01	yes	no
10 Unk	OCDF	41:51	4.386e+04	4.892e+04	0.90	yes	no
11 Unk	2,3,7,8-TCDD	28:06	4.960e+03	6.310e+03	0.79	yes	no
12 Unk	1,2,3,7,8-PeCDD	32:37	1.981e+04	1.233e+04	1.61	yes	no
13 Unk	1,2,3,4,7,8-HxCDD	35:44	1.996e+04	1.538e+04	1.30	yes	no
14 Unk	1,2,3,6,7,8-HxCDD	35:48	2.179e+04	1.725e+04	1.26	yes	no
15 Unk	1,2,3,7,8,9-HxCDD	36:06	1.965e+04	1.513e+04	1.30	yes	no
16 Unk	1,2,3,4,6,7,8-HpCDD	38:39	1.832e+04	1.747e+04	1.05	yes	no
17 Unk	OCDD	41:41	3.931e+04	4.436e+04	0.89	yes	no
18 IS	13C-2,3,7,8-TCDF	27:15	6.069e+03	7.126e+03	0.85	yes	no
19 IS	13C-1,2,3,7,8-PeCDF	31:31	1.253e+04	7.782e+03	1.61	yes	no
20 IS	13C-1,2,3,4,7,8-HxCDF	35:02	1.553e+04	2.884e+04	0.54	yes	no
21 IS	13C-1,2,3,4,6,7,8-HpCDF	37:44	1.182e+04	2.792e+04	0.42	yes	no
22 IS	13C-2,3,7,8-TCDD	28:04	5.184e+03	6.574e+03	0.79	yes	no
23 IS	13C-1,2,3,7,8-PeCDD	32:36	8.514e+03	5.309e+03	1.60	yes	no
24 IS	13C-1,2,3,6,7,8-HxCDD	35:48	1.862e+04	1.518e+04	1.23	yes	no
25 IS	13C-1,2,3,4,6,7,8-HpCDD	38:38	1.981e+04	1.881e+04	1.05	yes	no
26 IS	13C-OCDD	41:41	3.927e+04	4.395e+04	0.89	yes	no
27 RS/RT	13C-1,2,3,4-TCDD	27:52	5.745e+03	6.490e+03	0.89	yes	yes
28 RS/RT	13C-1,2,3,7,8,9-HxCDD	36:05	1.851e+04	1.501e+04	1.23	yes	no
29 C/Up	37Cl-2,3,7,8-TCDD	28:05	1.113e+04				

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Columbia Analytical Services, Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
ICAL HRCC4

Run #4 Filename U120209 Samp: 1 Inj: 1 Acquired: 2-APR-07 16:23:37

Processed: 3-APR-07 08:06:20 LAB. ID: ICAL HRCC4

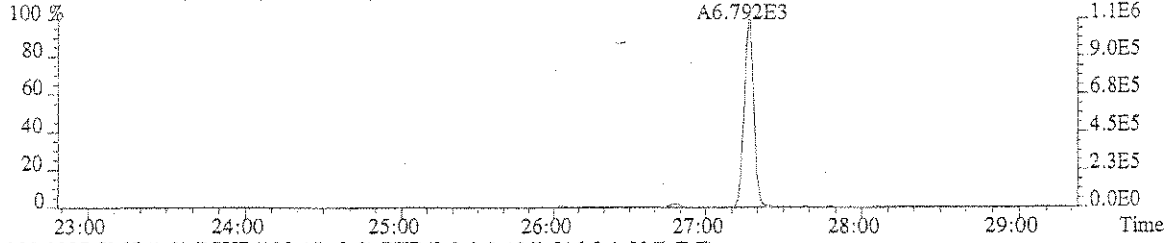
	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2,3,7,8-TCDF	1.13e+06	2.28e+02	4.9e+03	1.45e+06	3.16e+02	4.6e+03
2	1,2,3,7,8-PeCDF	5.92e+06	3.12e+02	1.9e+04	3.76e+06	3.20e+02	1.2e+04
3	2,3,4,7,8-PeCDF	6.05e+06	3.12e+02	1.9e+04	3.82e+06	3.20e+02	1.2e+04
4	1,2,3,4,7,8-HxCDF	6.39e+06	2.88e+02	2.2e+04	5.10e+06	2.32e+02	2.2e+04
5	1,2,3,6,7,8-HxCDF	6.31e+06	2.88e+02	2.2e+04	4.97e+06	2.32e+02	2.1e+04
6	2,3,4,6,7,8-HxCDF	6.08e+06	2.88e+02	2.1e+04	4.73e+06	2.32e+02	2.0e+04
7	1,2,3,7,8,9-HxCDF	4.88e+06	2.88e+02	1.7e+04	3.87e+06	2.32e+02	1.7e+04
8	1,2,3,4,6,7,8-HpCDF	5.93e+06	2.50e+03	2.4e+03	6.05e+06	9.08e+02	6.7e+03
9	1,2,3,4,7,8,9-HpCDF	4.03e+06	2.50e+03	1.6e+03	4.03e+06	9.08e+02	4.4e+03
10	OCDF	6.59e+06	2.04e+02	3.2e+04	7.36e+06	4.80e+02	1.5e+04
11	2,3,7,8-TCDD	9.12e+05	2.96e+02	3.1e+03	1.16e+06	1.80e+02	6.4e+03
12	1,2,3,7,8-PeCDD	4.09e+06	3.96e+02	1.0e+04	2.58e+06	2.44e+02	1.1e+04
13	1,2,3,4,7,8-HxCDD	4.81e+06	2.84e+02	1.7e+04	3.67e+06	2.96e+02	1.2e+04
14	1,2,3,6,7,8-HxCDD	4.72e+06	2.84e+02	1.7e+04	3.74e+06	2.96e+02	1.3e+04
15	1,2,3,7,8,9-HxCDD	4.39e+06	2.84e+02	1.5e+04	3.42e+06	2.96e+02	1.2e+04
16	1,2,3,4,6,7,8-HpCDD	3.89e+06	3.96e+02	9.8e+03	3.62e+06	3.72e+02	9.7e+03
17	OCDD	5.99e+06	2.48e+02	2.4e+04	6.72e+06	2.68e+02	2.5e+04
18	13C-2,3,7,8-TCDF	1.02e+06	3.56e+02	2.9e+03	1.22e+06	3.84e+02	3.2e+03
19	13C-1,2,3,7,8-PeCDF	2.56e+06	2.76e+02	9.3e+03	1.58e+06	2.04e+02	7.7e+03
20	13C-1,2,3,4,7,8-HxCDF	3.44e+06	2.24e+02	1.5e+04	6.27e+06	3.56e+02	1.8e+04
21	13C-1,2,3,4,6,7,8-HpCDF	2.56e+06	1.80e+03	1.4e+03	6.15e+06	3.20e+03	1.9e+03
22	13C-2,3,7,8-TCDD	9.86e+05	6.68e+02	1.5e+03	1.21e+06	2.96e+02	4.1e+03
23	13C-1,2,3,7,8-PeCDD	1.77e+06	2.68e+02	6.6e+03	1.12e+06	3.28e+02	3.4e+03
24	13C-1,2,3,6,7,8-HxCDD	4.29e+06	3.24e+02	1.3e+04	3.50e+06	3.24e+02	1.1e+04
25	13C-1,2,3,4,6,7,8-HpCDD	4.11e+06	4.80e+02	8.6e+03	3.84e+06	4.72e+02	8.1e+03
26	13C-OCDD	5.91e+06	4.88e+02	1.2e+04	6.65e+06	2.20e+02	3.0e+04
27	13C-1,2,3,4-TCDD	1.07e+06	6.68e+02	1.6e+03	1.17e+06	2.96e+02	4.0e+03
28	13C-1,2,3,7,8,9-HxCDD	4.12e+06	3.24e+02	1.3e+04	3.34e+06	3.24e+02	1.0e+04
29	37Cl-2,3,7,8-TCDD	2.03e+06	2.28e+02	8.9e+03			

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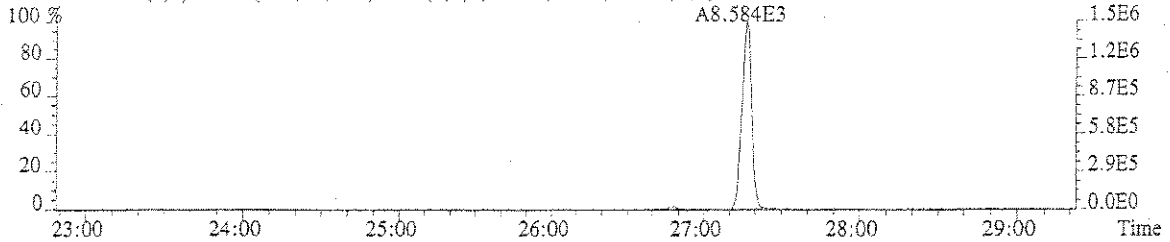
File:U120209 #1-548 Acq: 2-APR-2007 16:23:37 Probe EI+ Magnet SIR VG BioTech Mass spectf

Sample#1 Exp:ICAL HRCC4

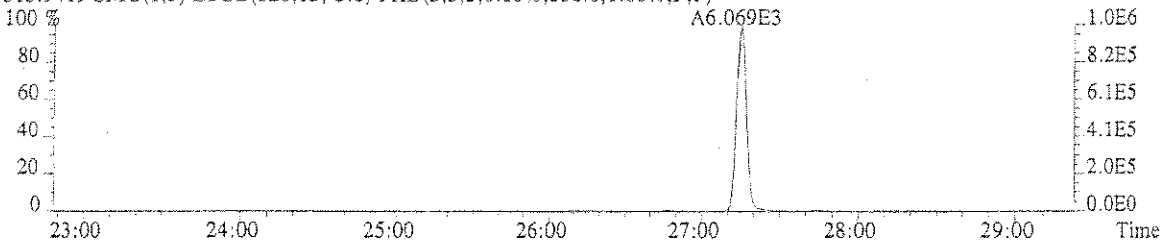
303.9016 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,228.0,1.00%,F,F)



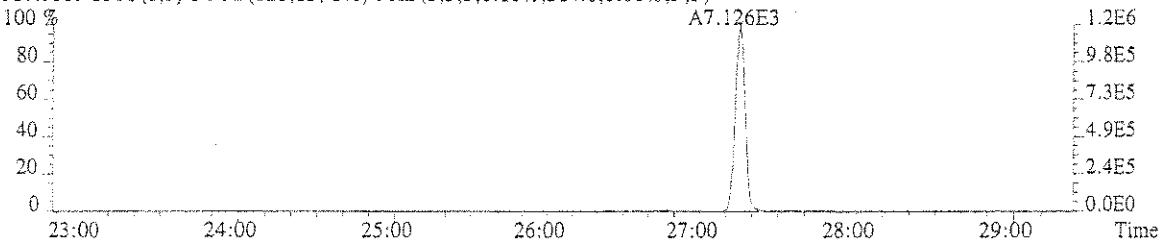
305.8987 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,316.0,1.00%,F,F)



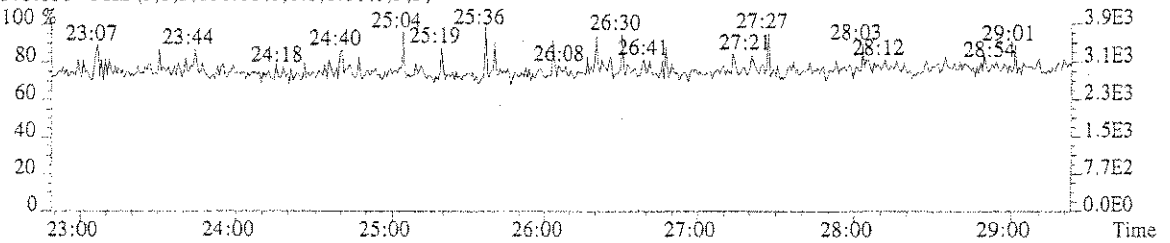
315.9419 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,356.0,1.00%,F,F)



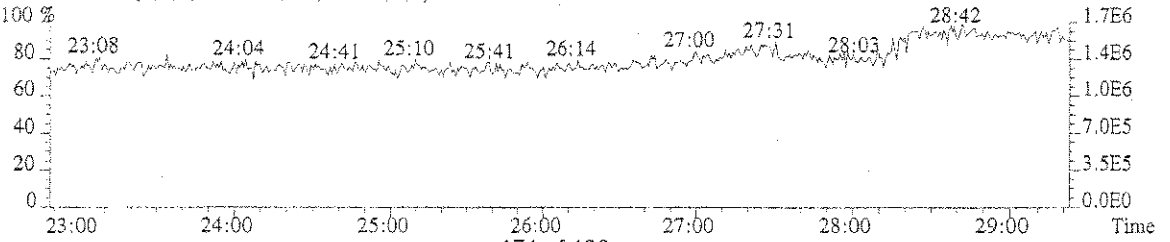
317.9389 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,384.0,1.00%,F,F)



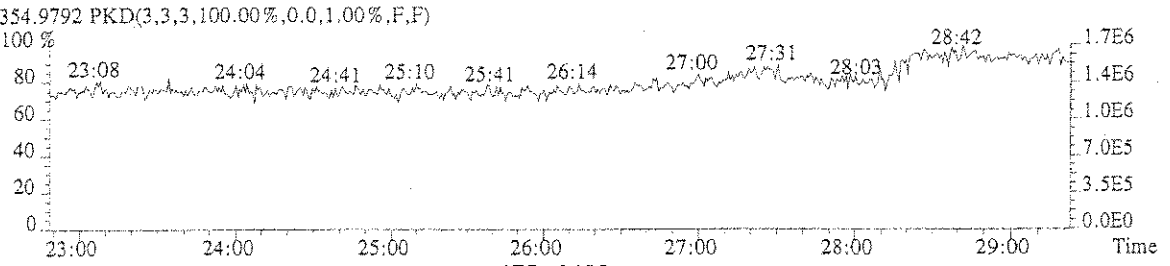
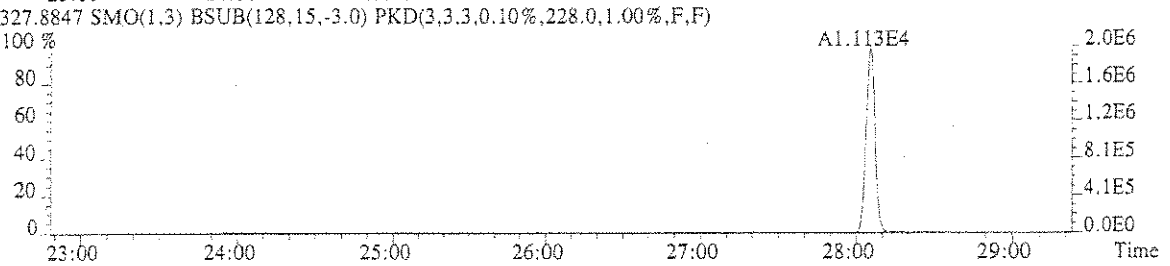
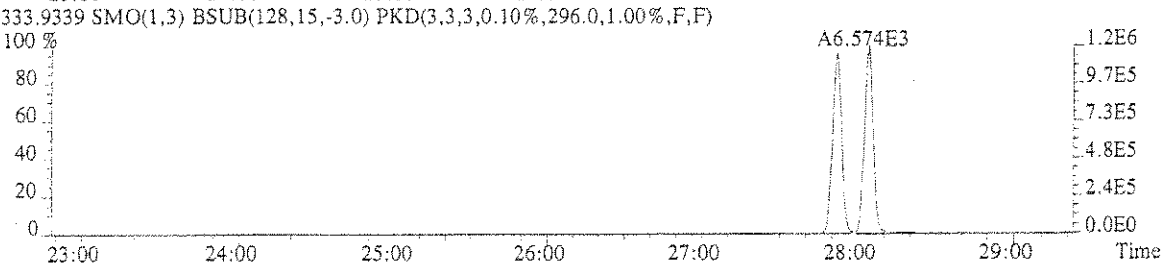
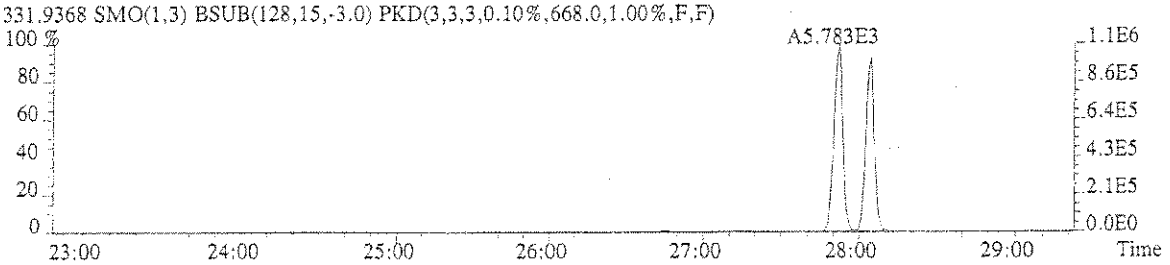
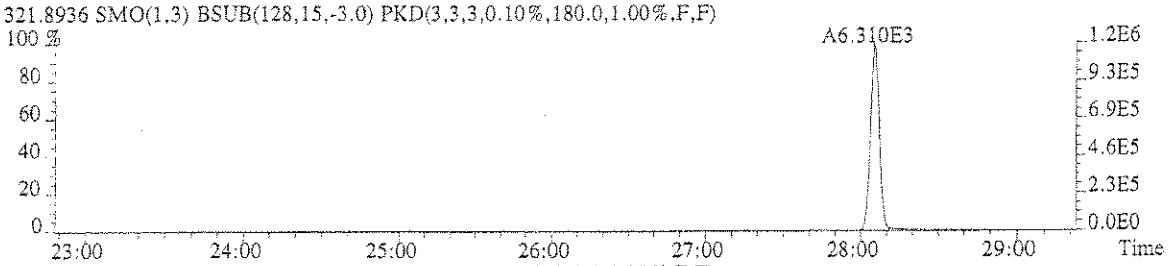
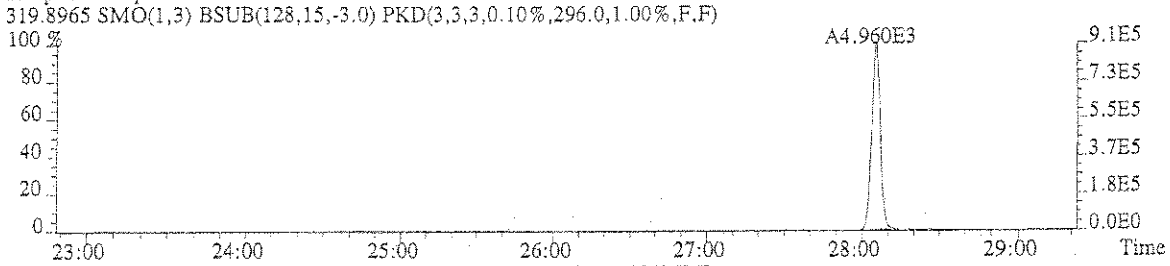
375.8364 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



354.9792 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

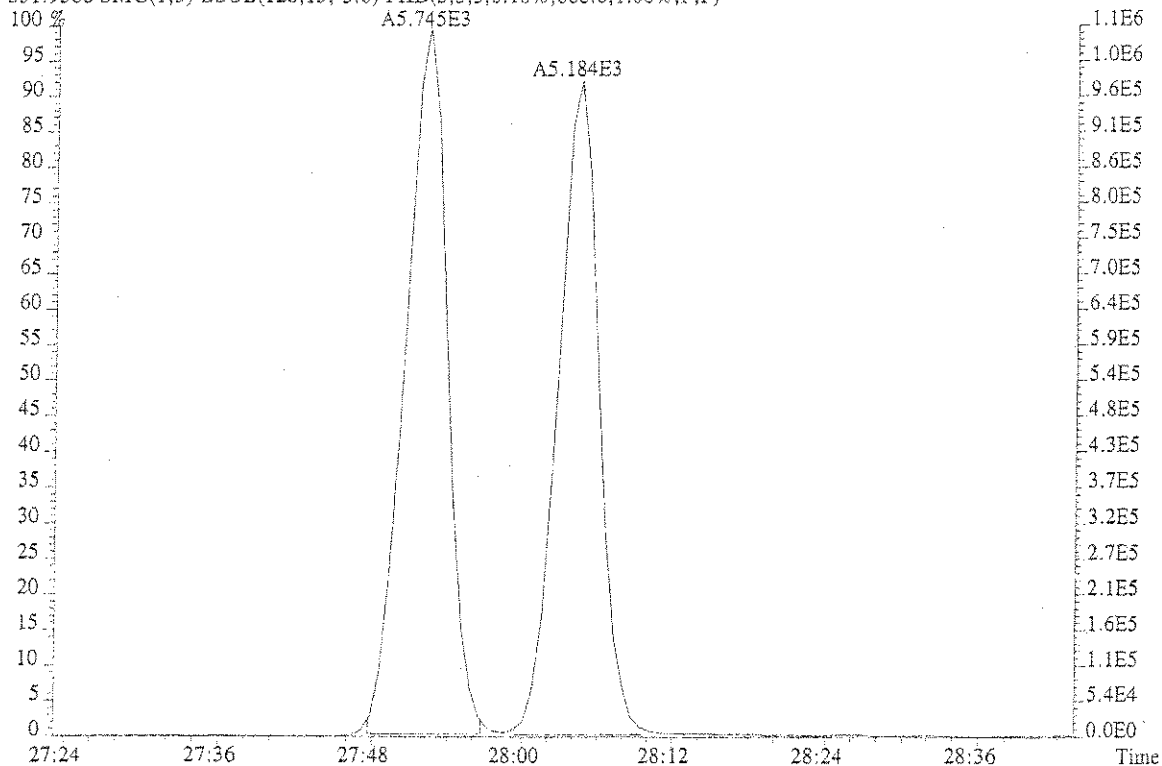


File:U120209 #1-548 Acq: 2-APR-2007 16:23:37 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC4

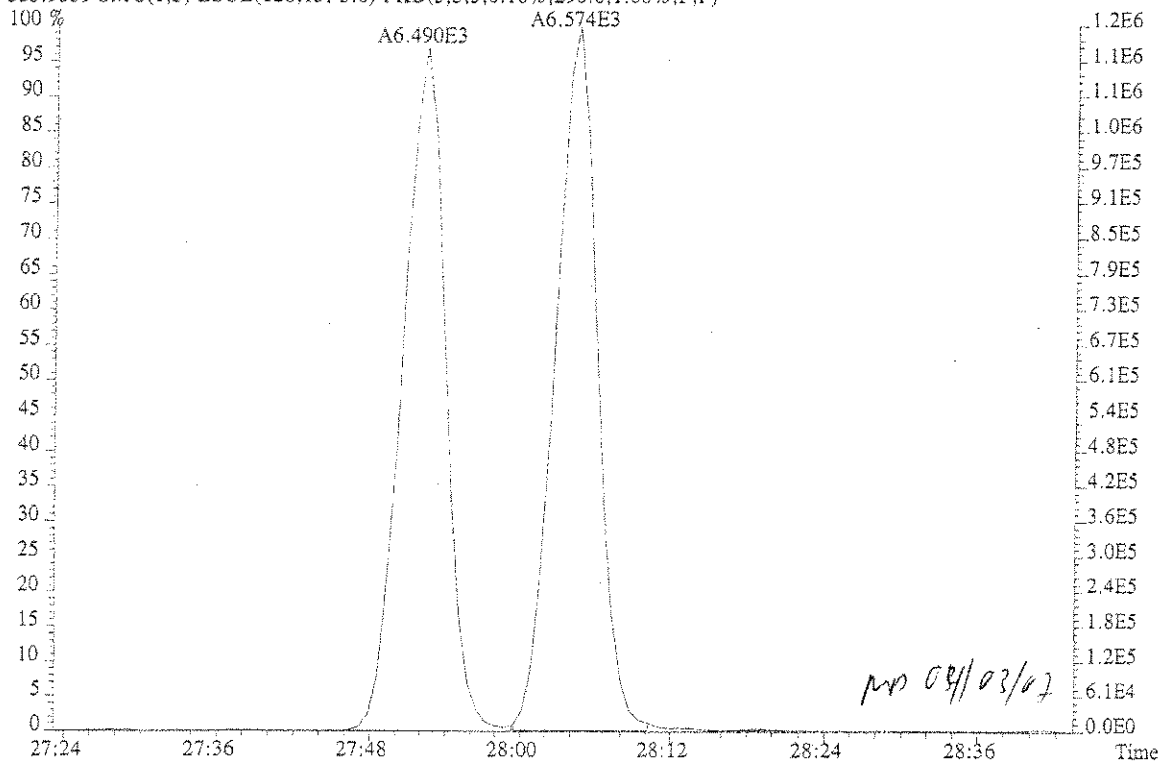


File: U120209 #1-548 Acq: 2-APR-2007 16:23:37 Probe EI+ Magnet SIR VG BioTech Mass spectf.
Sample#1 Exp: ICAL HRCC4

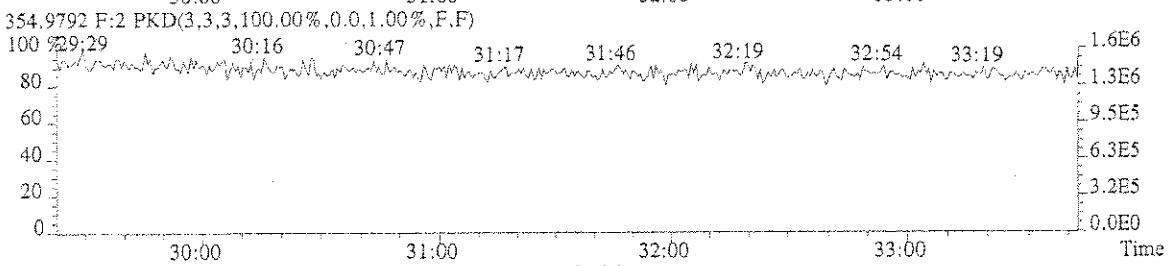
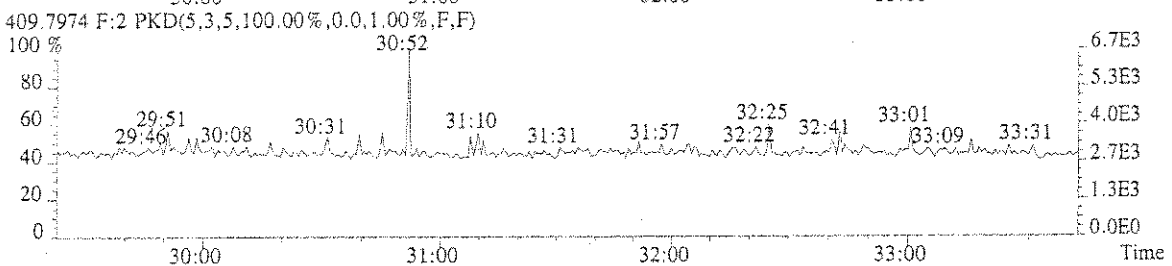
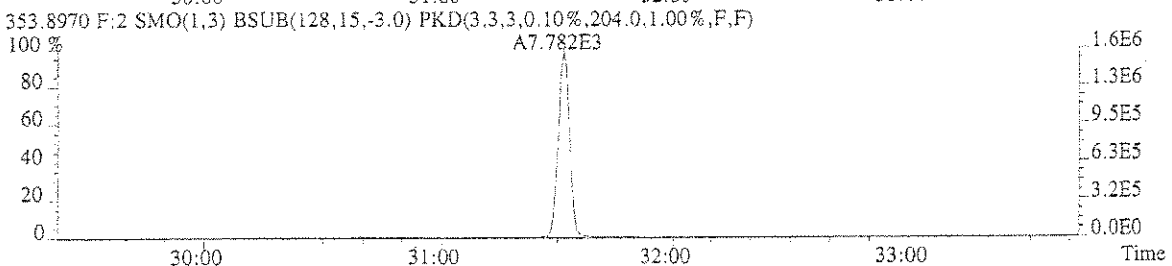
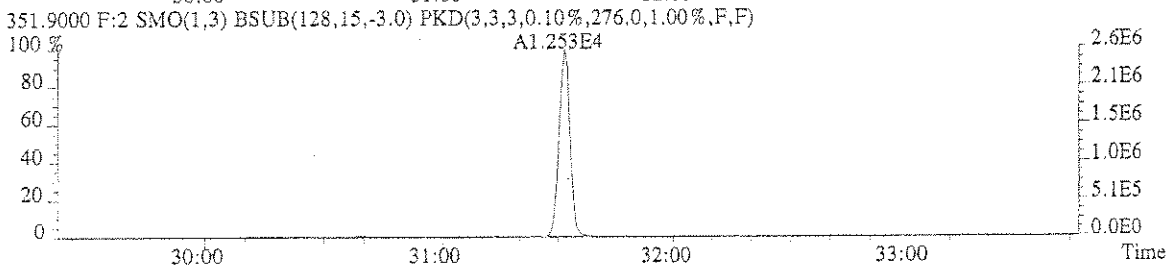
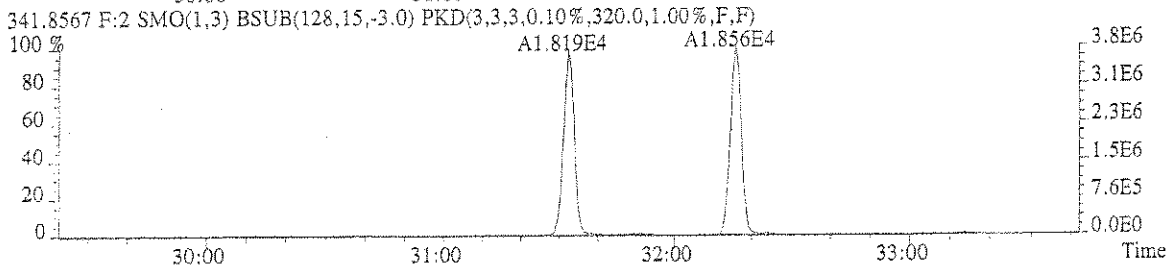
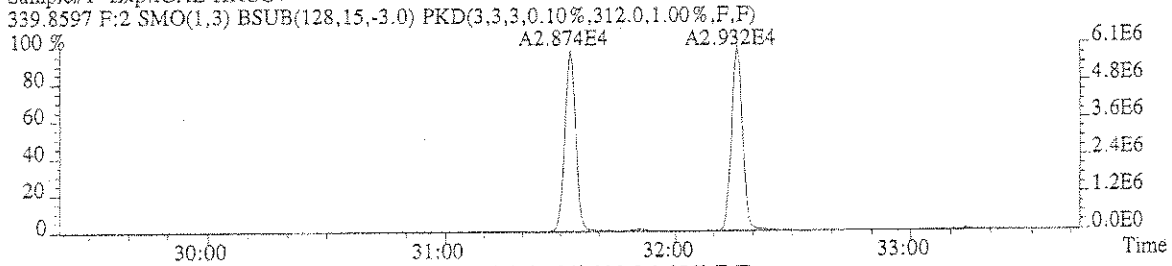
331.9368 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,668.0,1.00%,F,F)



333.9339 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,296.0,1.00%,F,F)

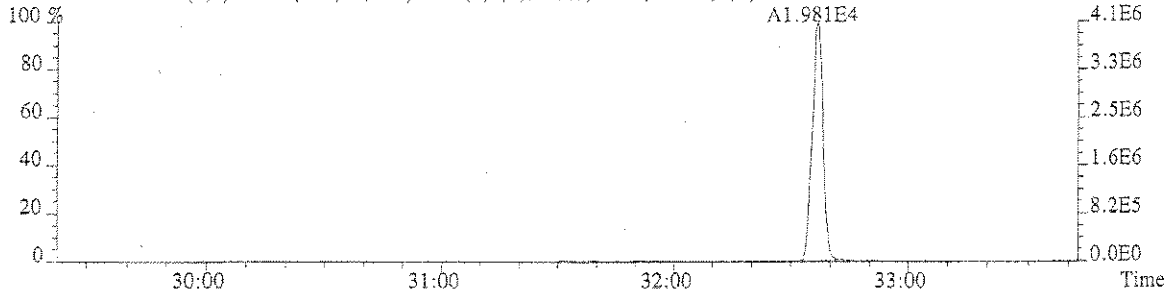


File:U120209 #1-394 Acq: 2-APR-2007 16:23:37 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC4

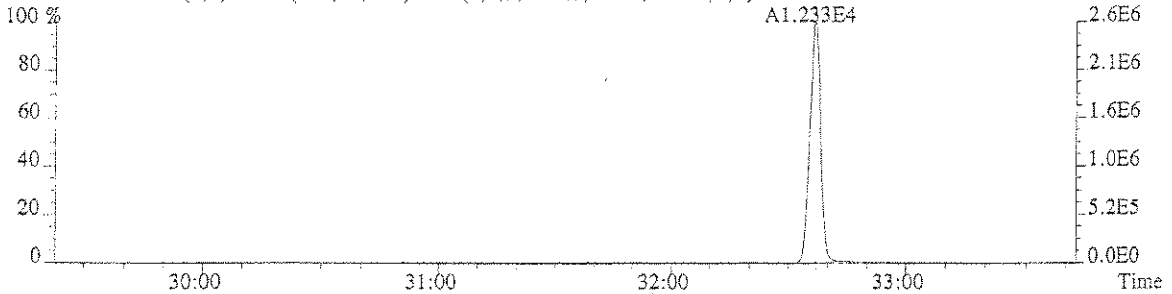


File:U120209 #1-394 Acq: 2-APR-2007 16:23:37 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC4

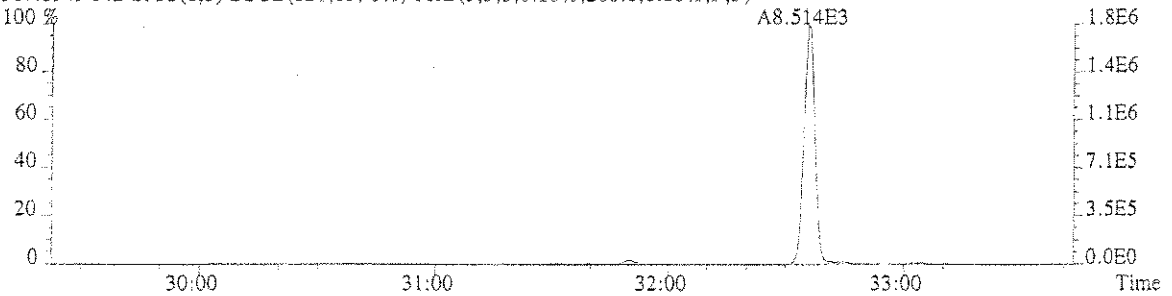
355.8546 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,396.0,1.00%,F,F)



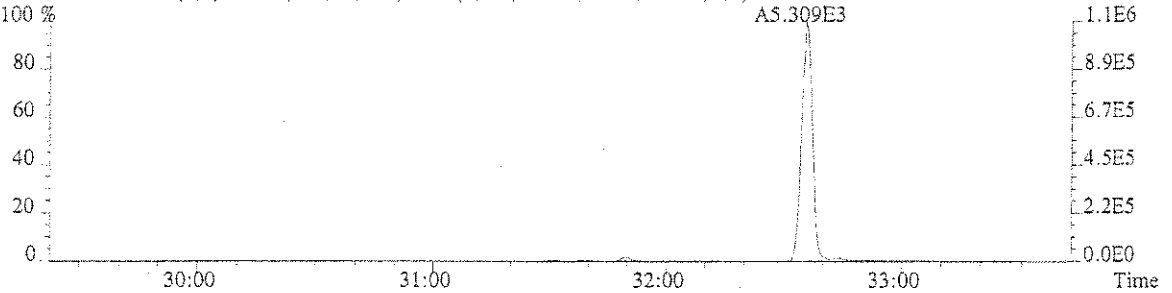
357.8517 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,244.0,1.00%,F,F)



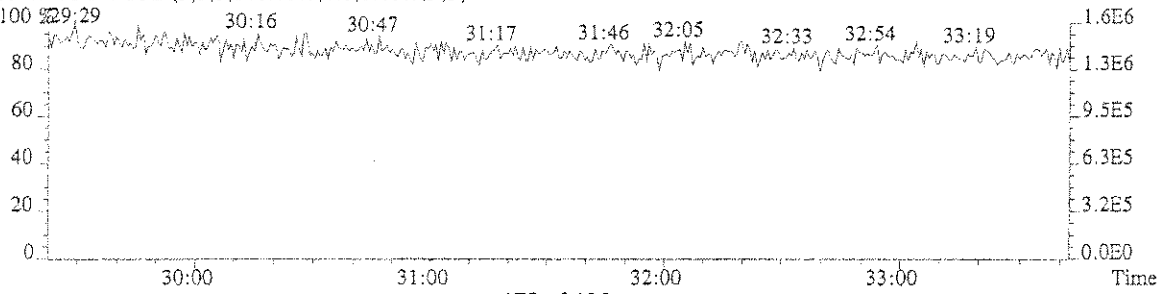
367.8949 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,268.0,1.00%,F,F)



369.8919 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,328.0,1.00%,F,F)



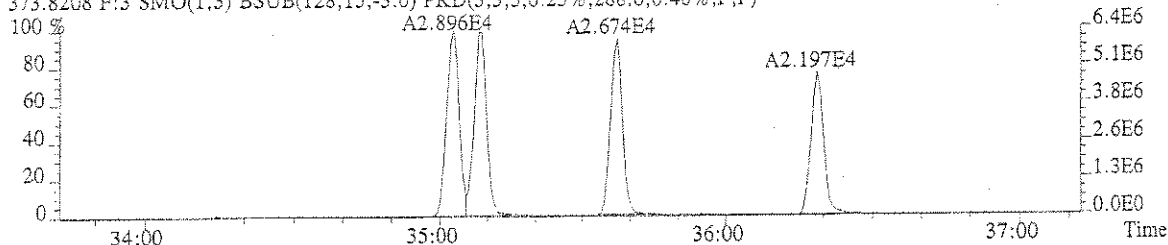
354.9792 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



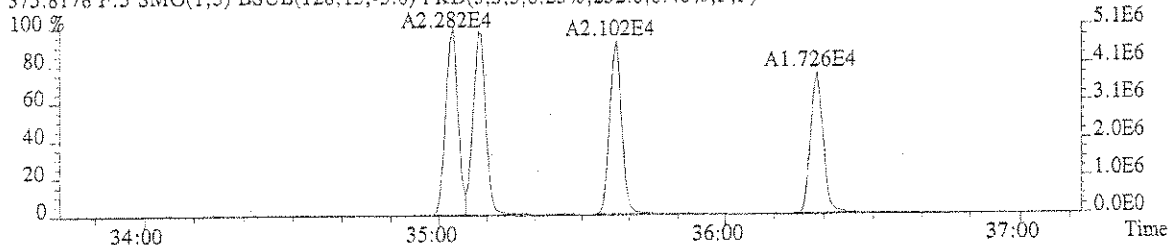
File:U120209 #1-318 Acq: 2-APR-2007 16:23:37 Probe EI+ Magnet SIR VG BioTech Mass spectr

Sample#1 Exp:ICAL HRCC4

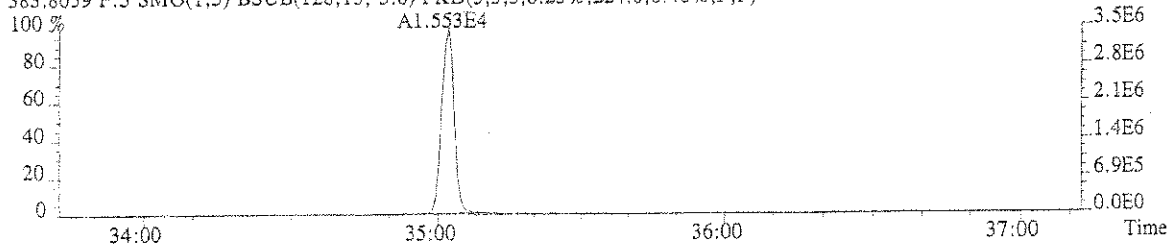
373.8208 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,288.0,0.40%,F,F)



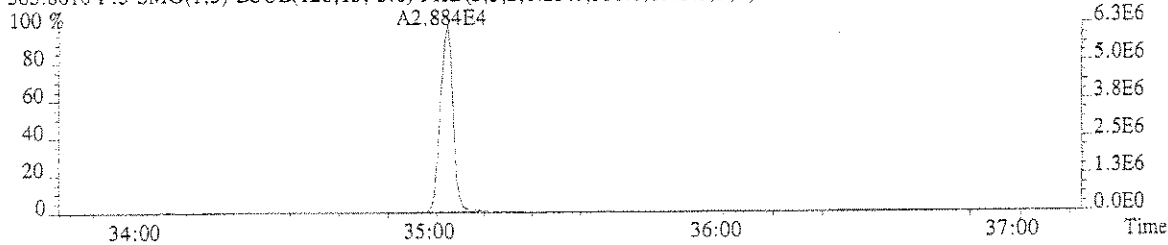
375.8178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,232.0,0.40%,F,F)



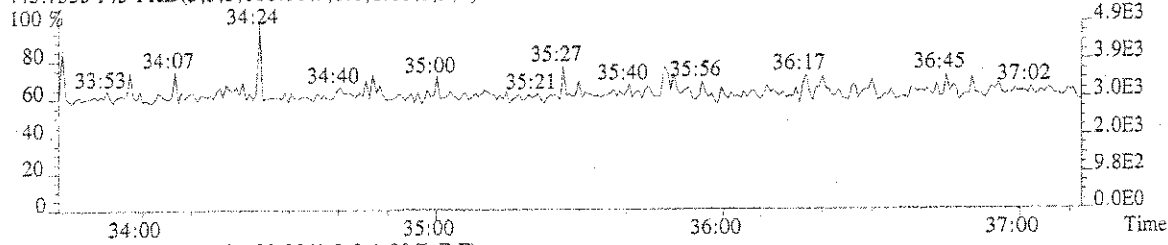
383.8639 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,224.0,0.40%,F,F)



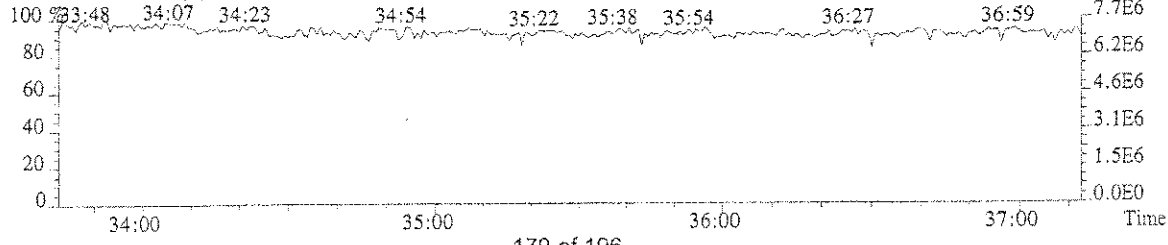
385.8610 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,356.0,0.40%,F,F)



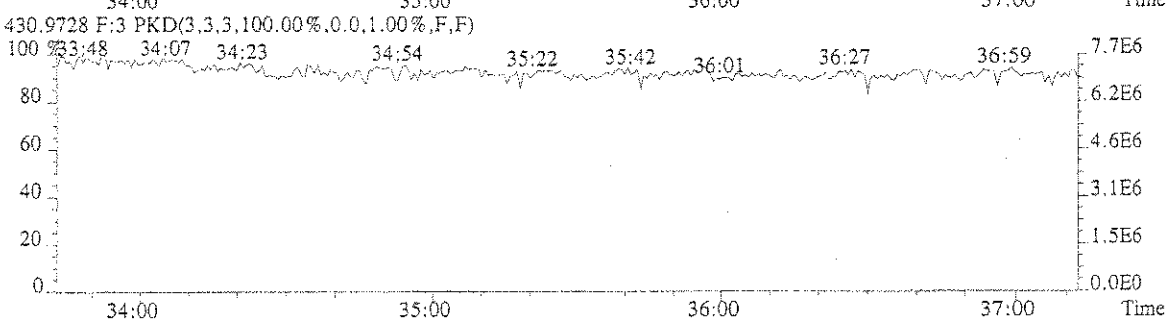
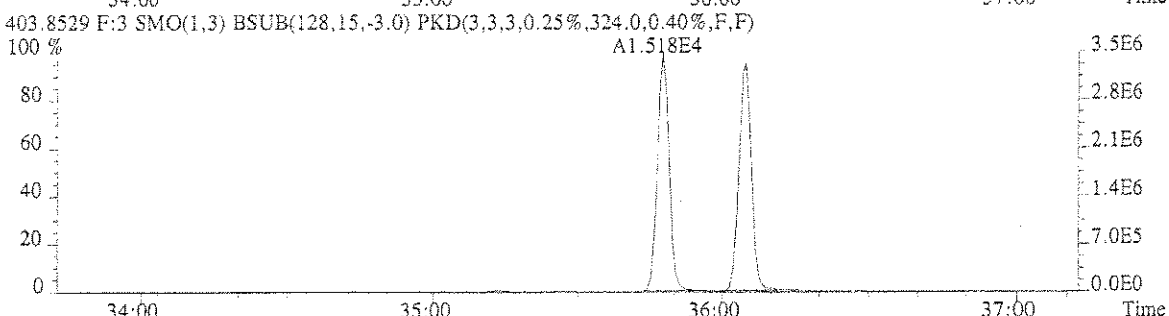
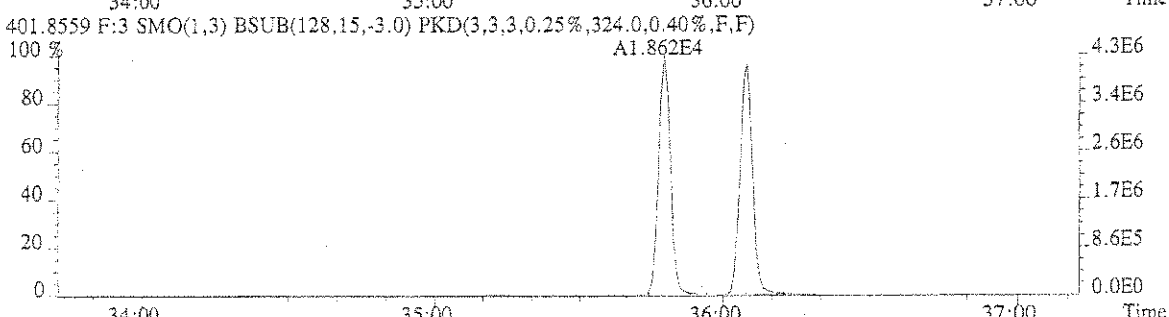
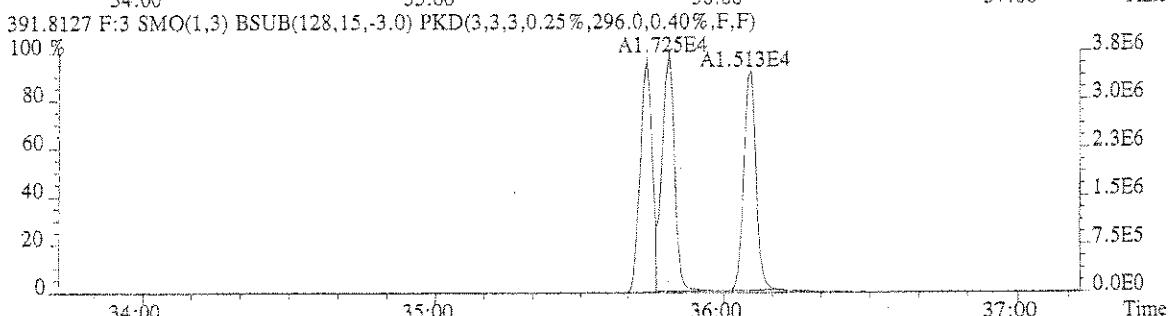
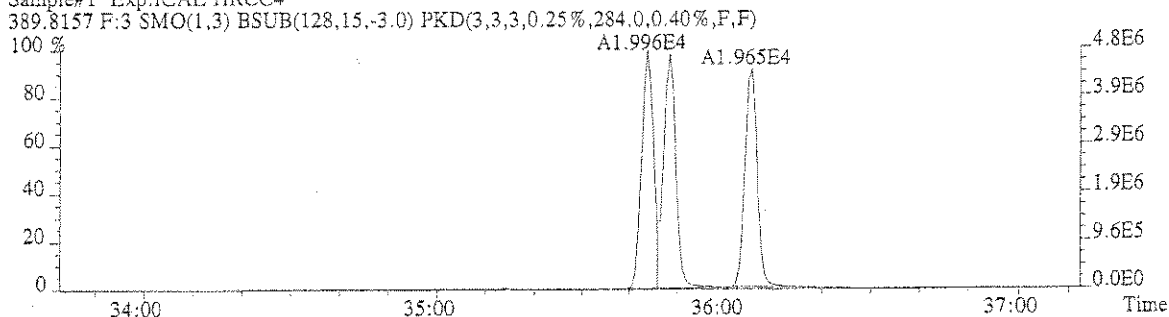
445.7555 F:3 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



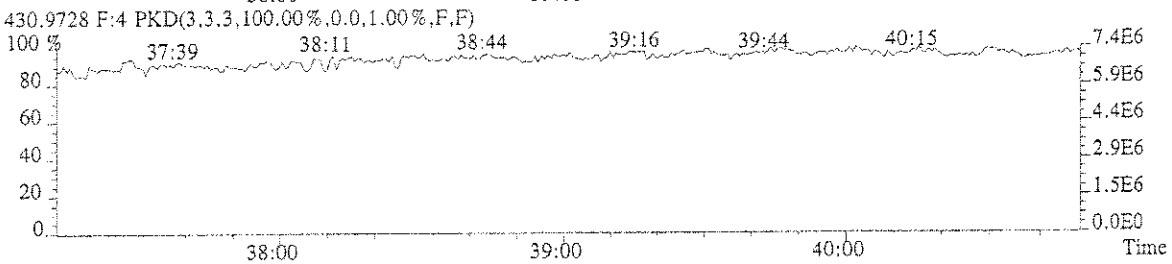
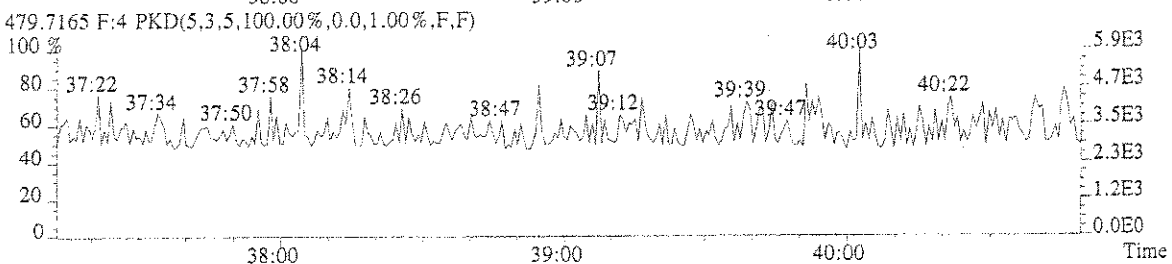
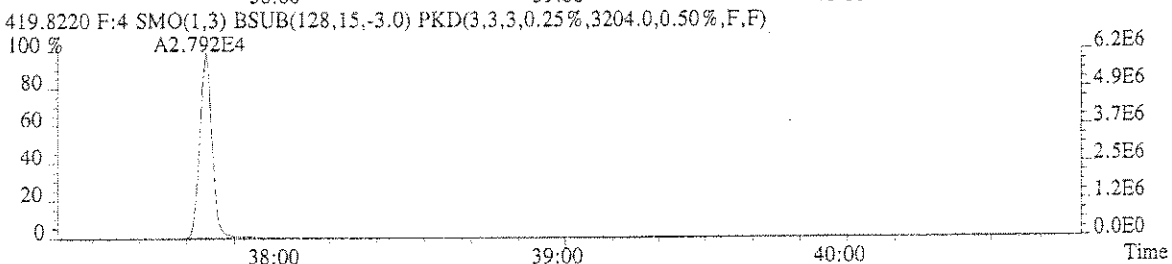
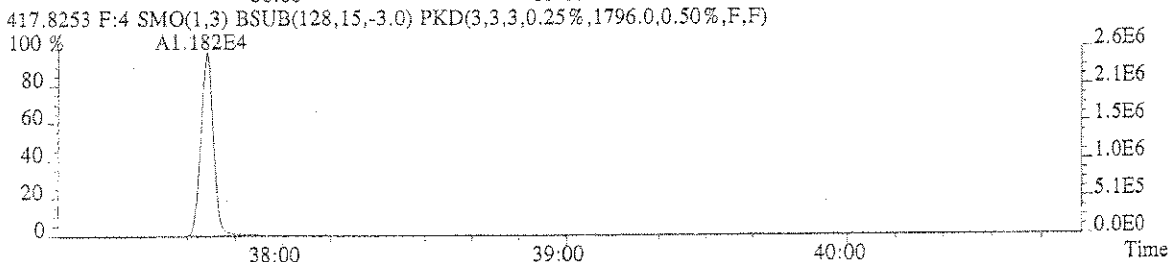
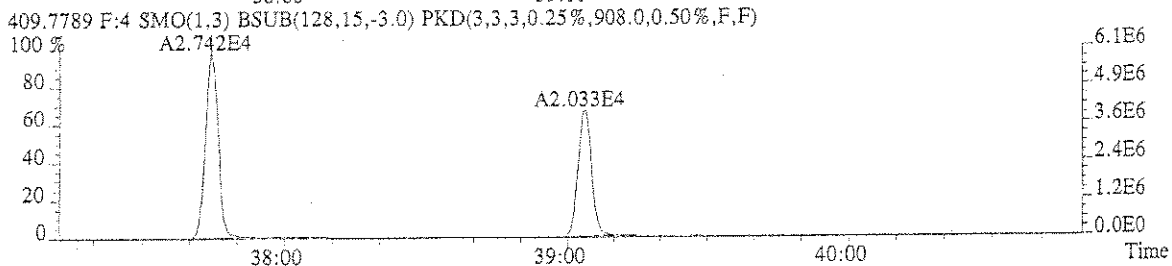
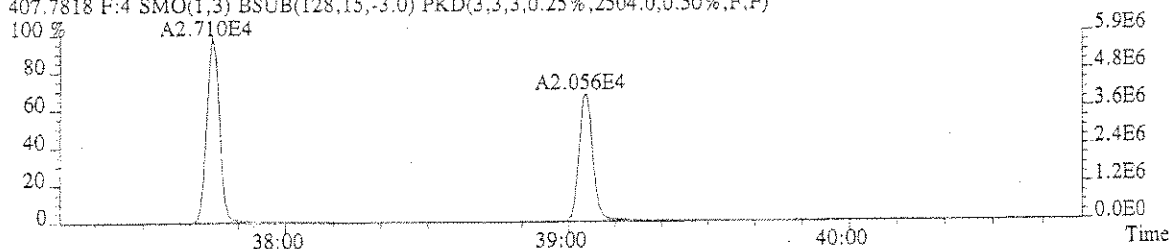
430.9728 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



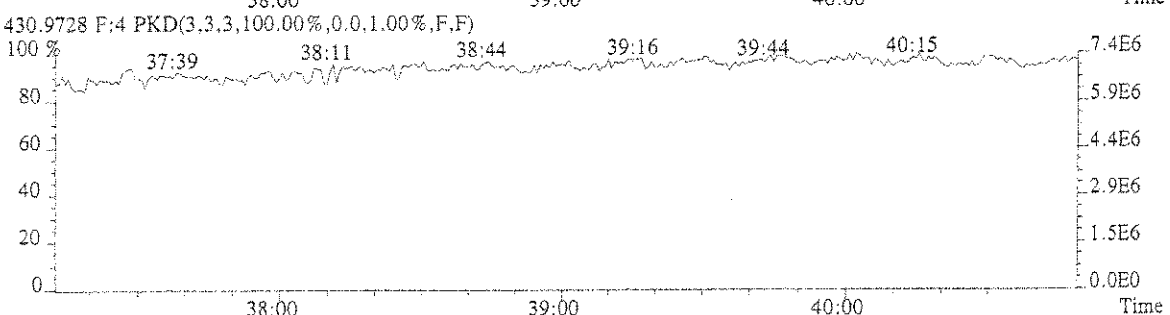
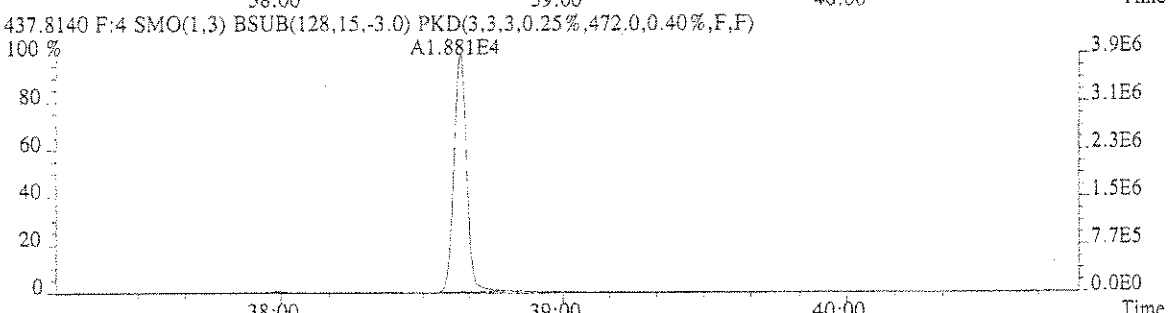
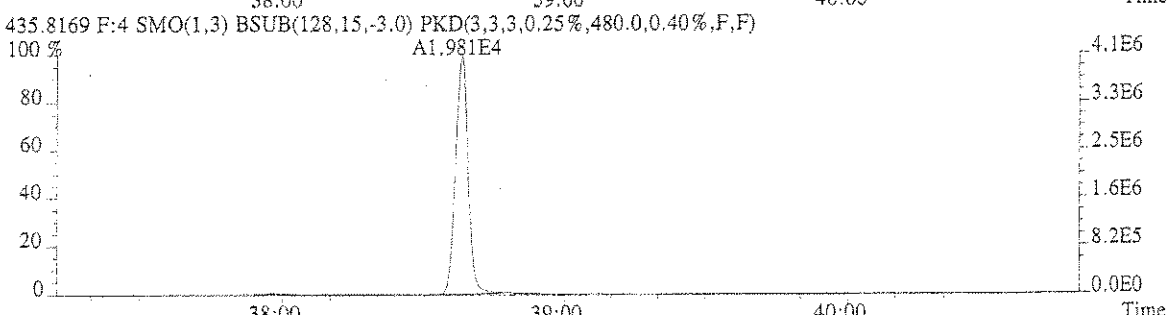
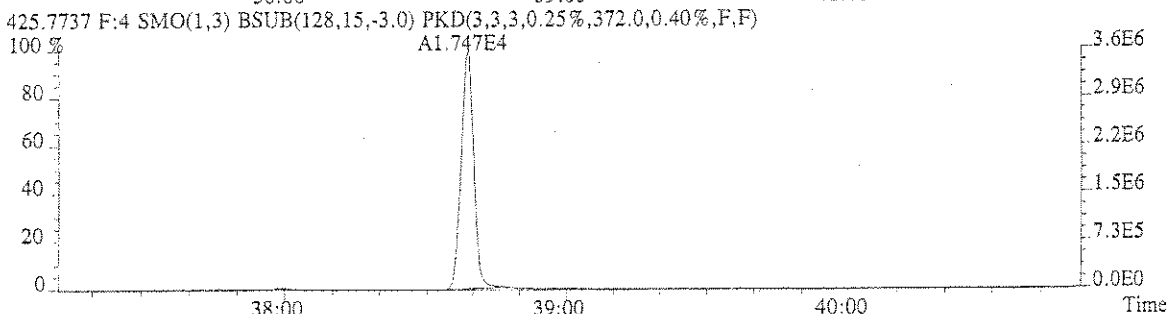
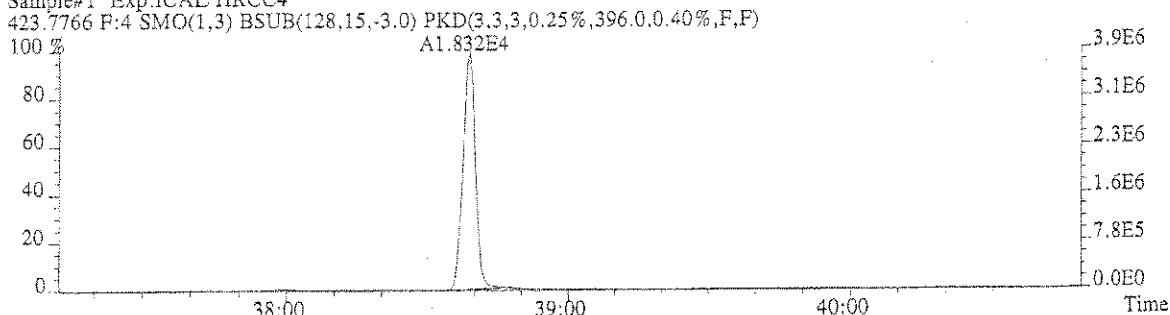
File:U120209 #1-318 Acq: 2-APR-2007 16:23:37 Probe EI+ Magnet SIR VG BioTech Mass spectf
 Sample#1 Exp:ICAL HRCC4



File:U120209 #1-327 Acq: 2-APR-2007 16:23:37 Probe EI+ Magnet SIR VG BioTech Mass spectf
 Sample#1 Exp:ICAL HRCC4
 407.7818 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,2504.0,0.50%,F,F)

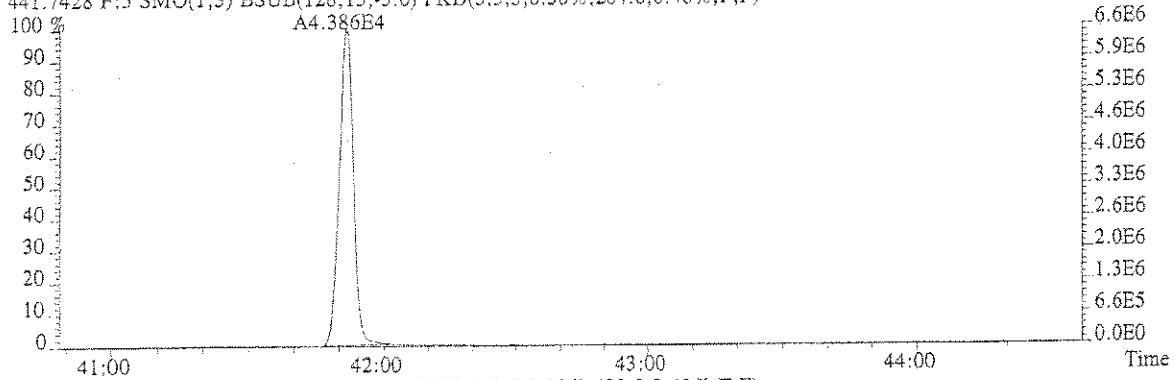


File:U120209 #1-327 Acq: 2-APR-2007 16:23:37 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC4

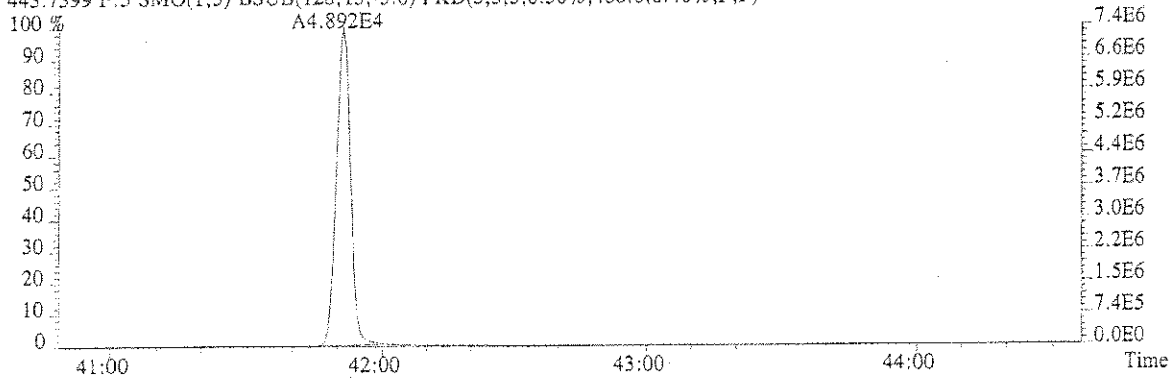


File:U120209 #1-420 Acq: 2-APR-2007 16:23:37 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC4

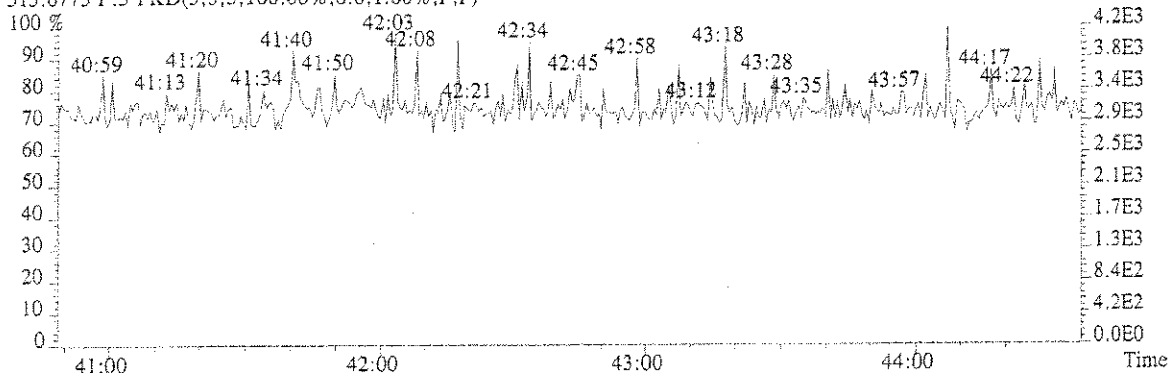
441.7428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,204.0,0.40%,F,F)



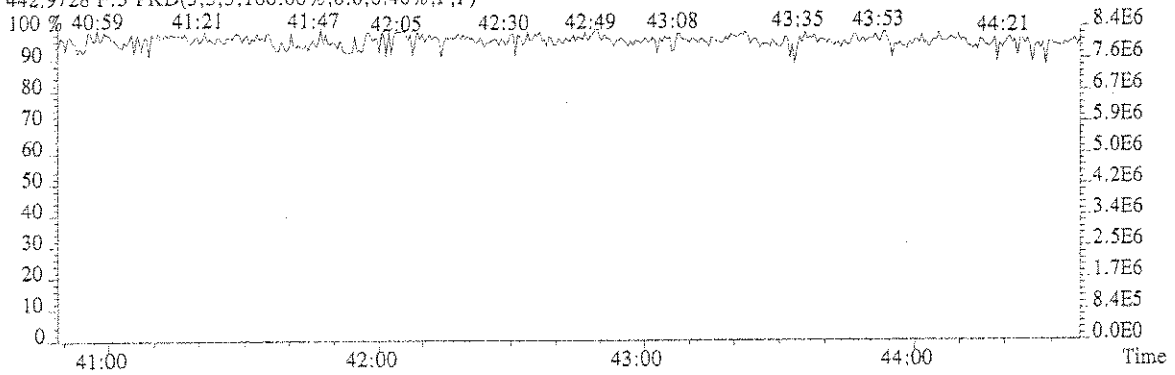
443.7399 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,480.0,0.40%,F,F)



513.6775 F:5 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

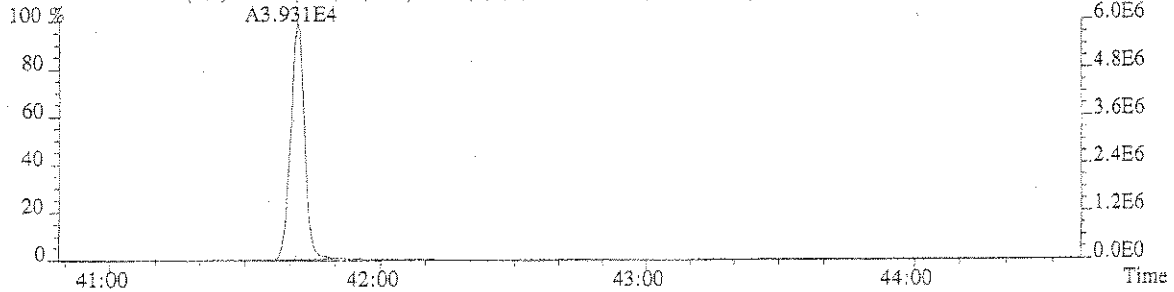


442.9728 F:5 PKD(3,3,3,100.00%,0.0,0.40%,F,F)

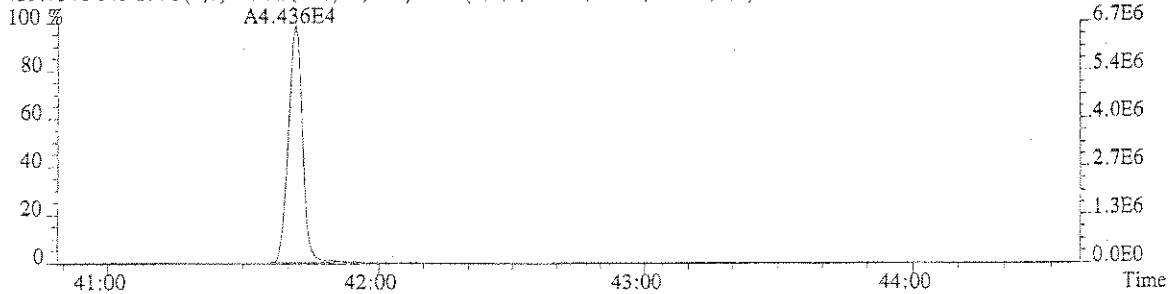


File:U120209 #1-420 Acq: 2-APR-2007 16:23:37 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC4

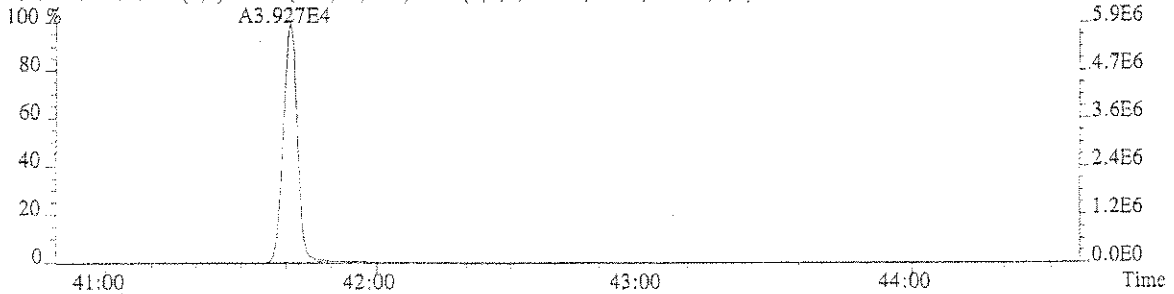
457.7377 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,248.0,0.40%,F,F)



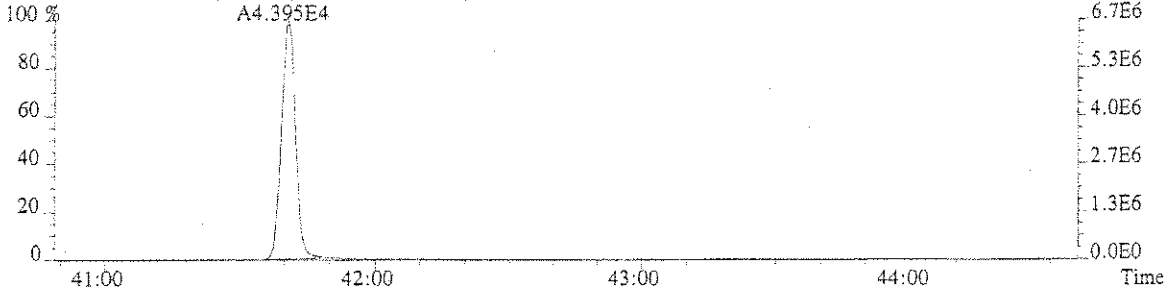
459.7348 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,268.0,0.40%,F,F)



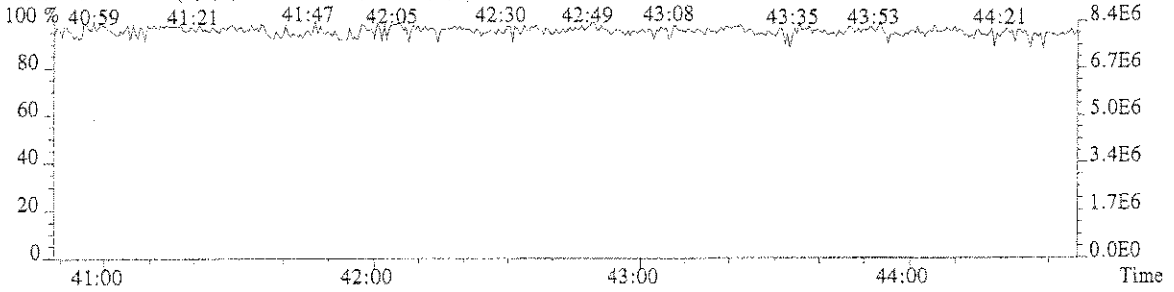
469.7779 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,488.0,0.40%,F,F)



471.7750 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,220.0,0.40%,F,F)



442.9728 F:5 PKD(3,3,3,100.00%,0.0,0.40%,F,F)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
ICAL HRCC5

Run #5 Filename U120210 Samp: 1 Inj: 1 Acquired: 2-APR-07 17:13:27
Processed: 3-APR-07 08:06:21 Sample ID: ICAL HRCC5

Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?
1 Unk	2,3,7,8-TCDF	27:16	3.073e+04	3.868e+04	0.79	yes	no
2 Unk	1,2,3,7,8-PeCDF	31:32	1.305e+05	8.373e+04	1.56	yes	no
3 Unk	2,3,4,7,8-PeCDF	32:15	1.410e+05	8.973e+04	1.57	yes	no
4 Unk	1,2,3,4,7,8-HxCDF	35:02	1.432e+05	1.188e+05	1.21	yes	no
5 Unk	1,2,3,6,7,8-HxCDF	35:08	1.340e+05	1.103e+05	1.21	yes	no
6 Unk	2,3,4,6,7,8-HxCDF	35:37	1.219e+05	1.002e+05	1.22	yes	no
7 Unk	1,2,3,7,8,9-HxCDF	36:18	1.109e+05	8.991e+04	1.23	yes	no
8 Unk	1,2,3,4,6,7,8-HpCDF	37:45	1.305e+05	1.322e+05	0.99	yes	no
9 Unk	1,2,3,4,7,8,9-HpCDF	39:03	1.055e+05	1.048e+05	1.01	yes	no
10 Unk	OCDF	41:51	2.306e+05	2.476e+05	0.93	yes	no
11 Unk	2,3,7,8-TCDD	28:04	2.217e+04	2.804e+04	0.79	yes	no
12 Unk	1,2,3,7,8-PeCDD	32:36	9.088e+04	5.795e+04	1.57	yes	no
13 Unk	1,2,3,4,7,8-HxCDD	35:43	1.032e+05	7.963e+04	1.30	yes	no
14 Unk	1,2,3,6,7,8-HxCDD	35:48	1.028e+05	7.916e+04	1.30	yes	no
15 Unk	1,2,3,7,8,9-HxCDD	36:05	9.762e+04	7.432e+04	1.31	yes	no
16 Unk	1,2,3,4,6,7,8-HpCDD	38:38	9.041e+04	8.809e+04	1.03	yes	no
17 Unk	OCDD	41:41	2.038e+05	2.246e+05	0.91	yes	no
18 IS	13C-2,3,7,8-TCDF	27:15	8.247e+03	1.033e+04	0.80	yes	no
19 IS	13C-1,2,3,7,8-PeCDF	31:31	1.377e+04	8.745e+03	1.57	yes	no
20 IS	13C-1,2,3,4,7,8-HxCDF	35:02	1.836e+04	3.563e+04	0.52	yes	no
21 IS	13C-1,2,3,4,6,7,8-HpCDF	37:44	1.415e+04	3.329e+04	0.42	yes	no
22 IS	13C-2,3,7,8-TCDD	28:04	5.637e+03	7.338e+03	0.77	yes	no
23 IS	13C-1,2,3,7,8-PeCDD	32:36	9.489e+03	6.140e+03	1.55	yes	no
24 IS	13C-1,2,3,6,7,8-HxCDD	35:47	2.287e+04	1.850e+04	1.24	yes	no
25 IS	13C-1,2,3,4,6,7,8-HpCDD	38:37	2.374e+04	2.282e+04	1.04	yes	no
26 IS	13C-OCDD	41:40	5.044e+04	5.591e+04	0.90	yes	no
27 RS/RT	13C-1,2,3,4-TCDD	27:51	6.234e+03	8.066e+03	0.77	yes	no
28 RS/RT	13C-1,2,3,7,8,9-HxCDD	36:04	2.258e+04	1.804e+04	1.25	yes	no
29 C/Up	37C1-2,3,7,8-TCDD	28:05	5.168e+04				

Columbia Analytical Services, Inc.
10655 Richmond Ave., Suite 130A
Houston, TX 77042
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Columbia Analytical Services, Inc.
Signal/Noise Height Ratio SummaryCLIENT ID.
ICAL HRCC5

Run #5 Filename U120210 Samp: 1 Inj: 1 Acquired: 2-APR-07 17:13:27

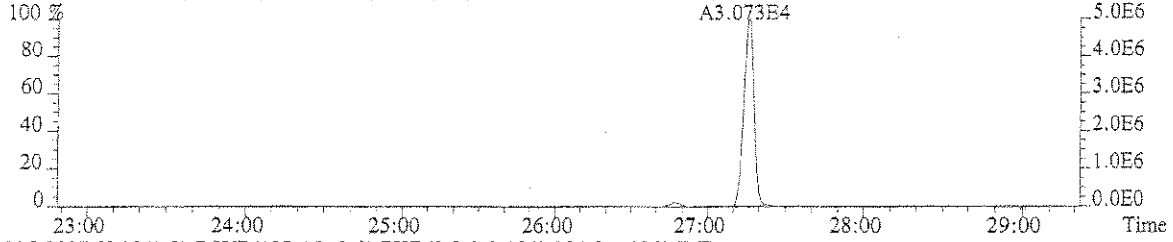
Processed: 3-APR-07 08:06:21 LAB. ID: ICAL HRCC5

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2,3,7,8-TCDF	5.01e+06	2.44e+02	2.1e+04	6.46e+06	2.84e+02	2.3e+04
2	1,2,3,7,8-PeCDF	2.56e+07	2.76e+02	9.3e+04	1.61e+07	3.44e+02	4.7e+04
3	2,3,4,7,8-PeCDF	2.84e+07	2.76e+02	1.0e+05	1.82e+07	3.44e+02	5.3e+04
4	1,2,3,4,7,8-HxCDF	3.21e+07	3.76e+02	8.5e+04	2.67e+07	3.84e+02	6.9e+04
5	1,2,3,6,7,8-HxCDF	2.93e+07	3.76e+02	7.8e+04	2.45e+07	3.84e+02	6.4e+04
6	2,3,4,6,7,8-HxCDF	2.70e+07	3.76e+02	7.2e+04	2.26e+07	3.84e+02	5.9e+04
7	1,2,3,7,8,9-HxCDF	2.42e+07	3.76e+02	6.4e+04	1.99e+07	3.84e+02	5.2e+04
8	1,2,3,4,6,7,8-HpCDF	2.77e+07	6.20e+03	4.5e+03	2.83e+07	5.89e+03	4.8e+03
9	1,2,3,4,7,8,9-HpCDF	2.17e+07	6.20e+03	3.5e+03	2.17e+07	5.89e+03	3.7e+03
10	OCDF	3.44e+07	2.96e+02	1.2e+05	3.73e+07	4.68e+02	8.0e+04
11	2,3,7,8-TCDD	4.01e+06	2.76e+02	1.5e+04	5.03e+06	2.44e+02	2.1e+04
12	1,2,3,7,8-PeCDD	1.92e+07	4.72e+02	4.1e+04	1.23e+07	3.08e+02	4.0e+04
13	1,2,3,4,7,8-HxCDD	2.28e+07	2.72e+02	8.4e+04	1.78e+07	2.68e+02	6.6e+04
14	1,2,3,6,7,8-HxCDD	2.30e+07	2.72e+02	8.5e+04	1.79e+07	2.68e+02	6.7e+04
15	1,2,3,7,8,9-HxCDD	2.22e+07	2.72e+02	8.2e+04	1.70e+07	2.68e+02	6.3e+04
16	1,2,3,4,6,7,8-HpCDD	1.89e+07	4.36e+02	4.3e+04	1.87e+07	5.52e+02	2.2e+04
17	OCDD	3.10e+07	1.28e+02	2.4e+05	3.43e+07	3.68e+02	9.3e+04
18	13C-2,3,7,8-TCDF	1.35e+06	4.52e-02	3.0e+03	1.77e+06	4.08e+02	4.3e+03
19	13C-1,2,3,7,8-PeCDF	2.68e+06	3.08e-02	8.7e+03	1.69e+06	3.20e+02	5.3e+03
20	13C-1,2,3,4,7,8-HxCDF	4.09e+06	2.88e-02	1.4e+04	7.87e+06	4.68e+02	1.7e+04
21	13C-1,2,3,4,6,7,8-HpCDF	3.05e+06	1.43e+03	2.1e+03	7.10e+06	8.80e+02	8.1e+03
22	13C-2,3,7,8-TCDD	1.02e+06	6.36e-02	1.6e+03	1.33e+06	2.64e+02	5.0e+03
23	13C-1,2,3,7,8-PeCDD	2.01e+06	2.88e-02	7.0e+03	1.28e+06	3.36e+02	3.8e+03
24	13C-1,2,3,6,7,8-HxCDD	5.11e+06	2.00e-02	2.6e+04	4.20e+06	4.72e+02	8.9e+03
25	13C-1,2,3,4,6,7,8-HpCDD	5.11e+06	5.88e-02	8.7e+03	4.85e+06	4.12e+02	1.2e+04
26	13C-OCDD	7.73e-06	2.76e+02	2.8e+04	8.47e+06	2.92e+02	2.9e+04
27	13C-1,2,3,4-TCDD	1.10e+06	6.36e-02	1.7e+03	1.40e+06	2.64e+02	5.3e+03
28	13C-1,2,3,7,8,9-HxCDD	5.02e+06	2.00e-02	2.5e+04	4.10e+06	4.72e+02	8.7e+03
29	37Cl-2,3,7,8-TCDD	9.27e+06	2.24e+02	4.1e+04			

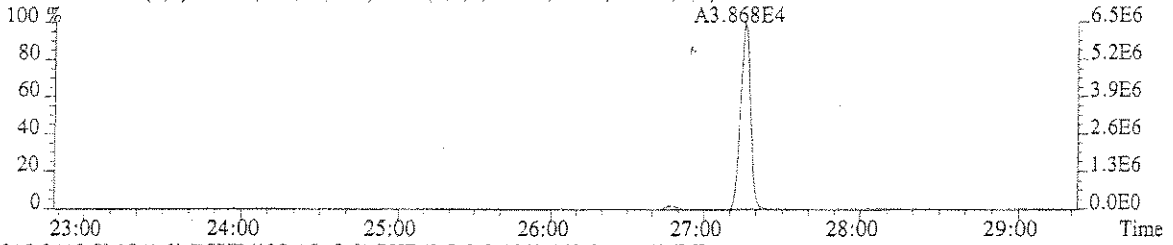
Columbia Analytical Services, Inc.
10655 Richmond Ave., Suite 130A
Houston, TX 77042
Office: (713)266-1599. Fax: (713)266-0130

File:U120210 #1-548 Acq: 2-APR-2007 17:13:27 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC5

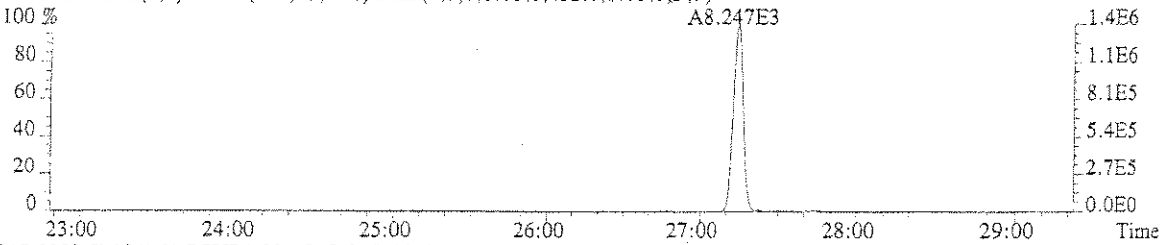
303.9016 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,244.0,1.00%,F,F)



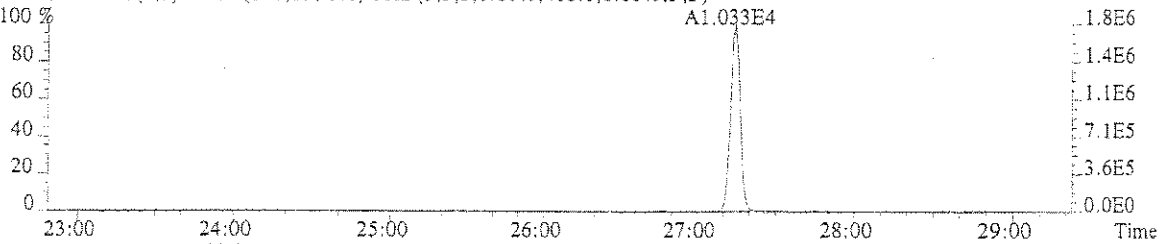
305.8987 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,284.0,1.00%,F,F)



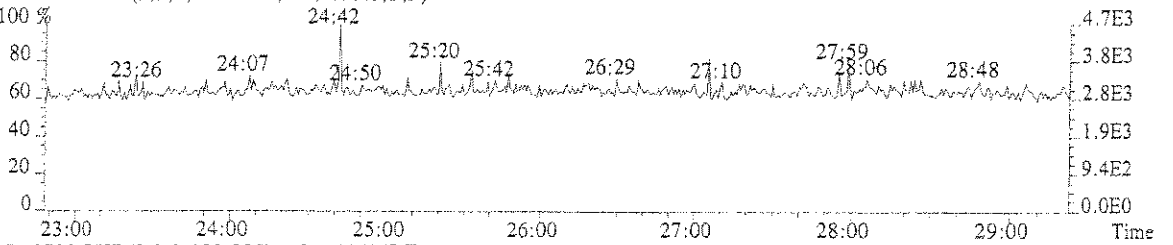
315.9419 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,452.0,1.00%,F,F)



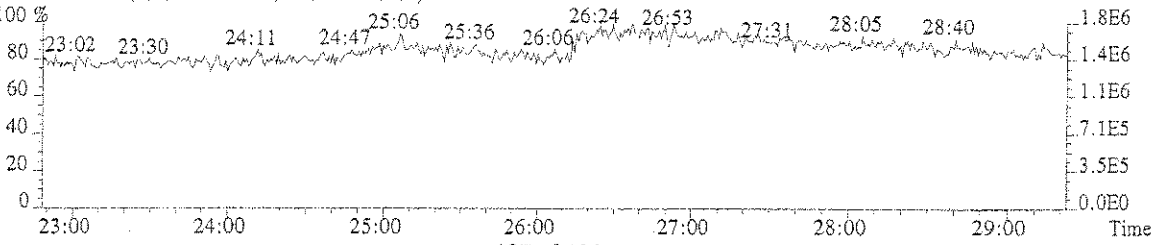
317.9389 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,408.0,1.00%,F,F)



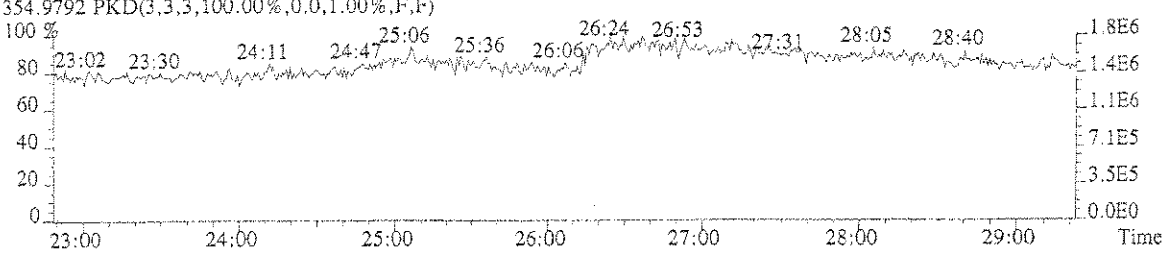
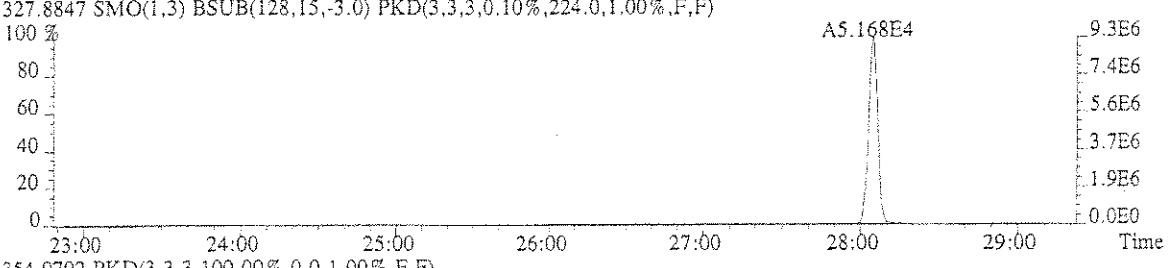
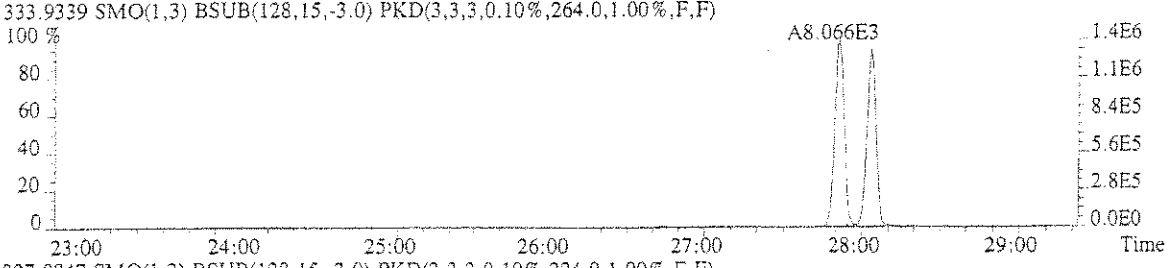
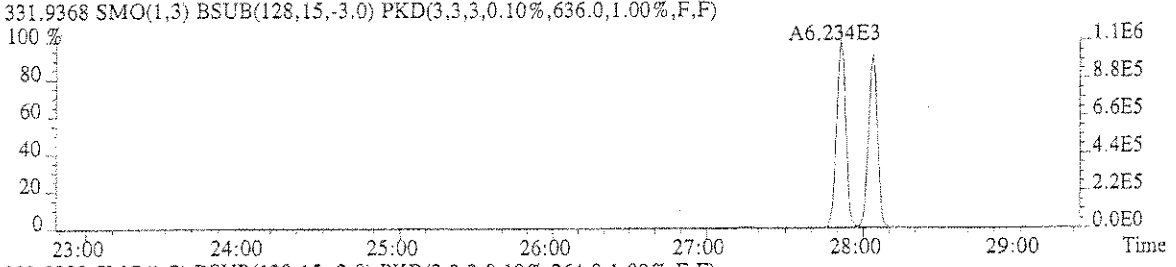
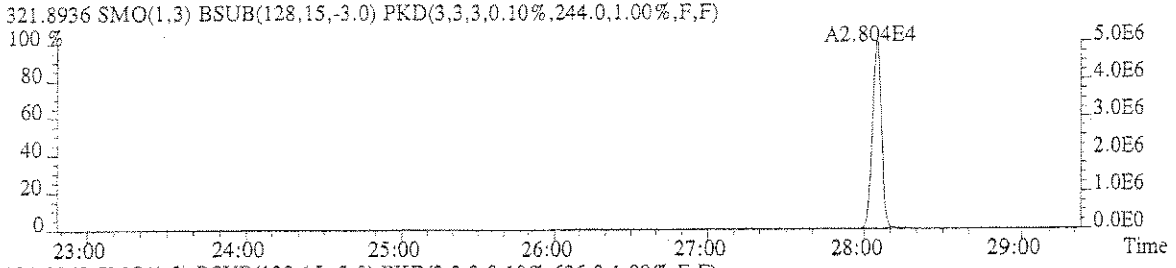
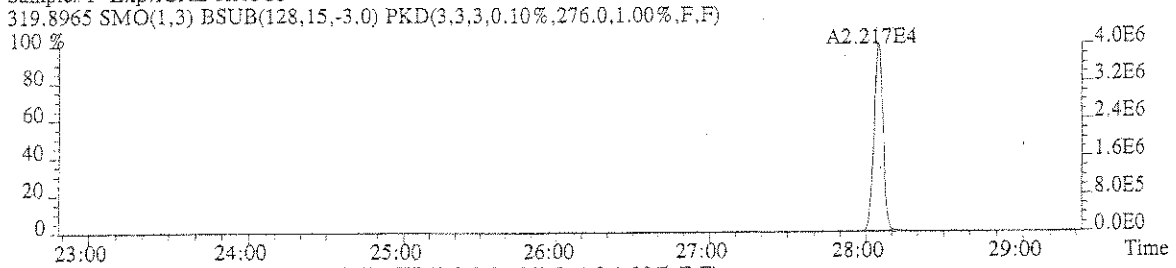
375.8364 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



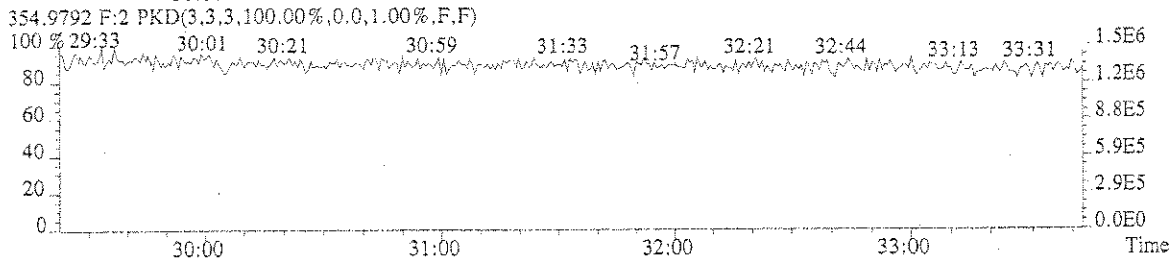
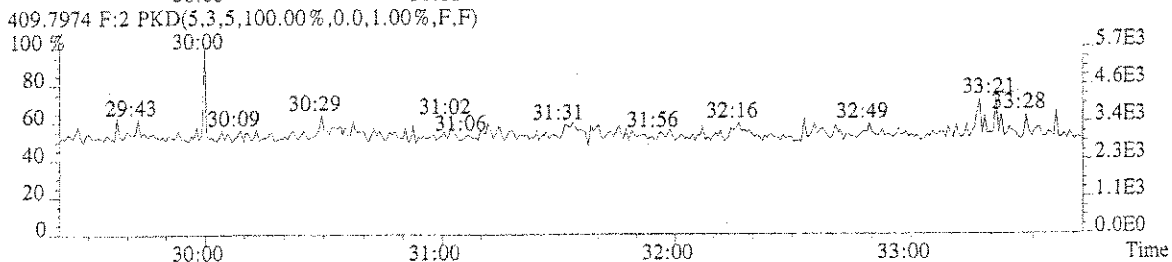
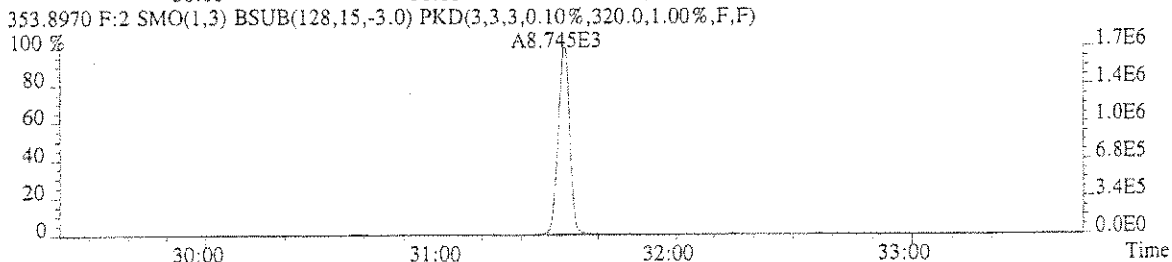
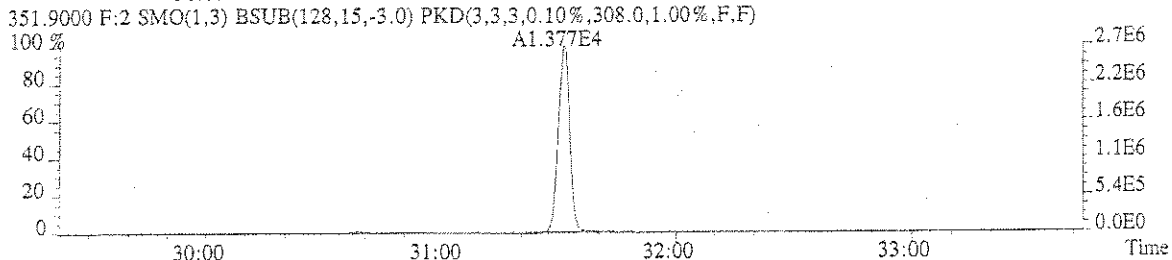
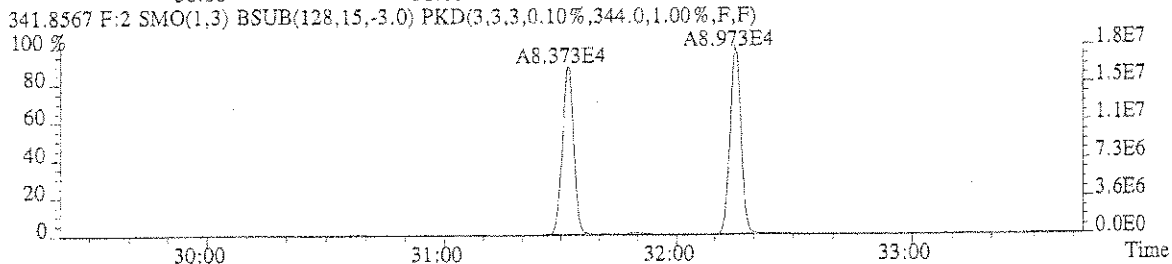
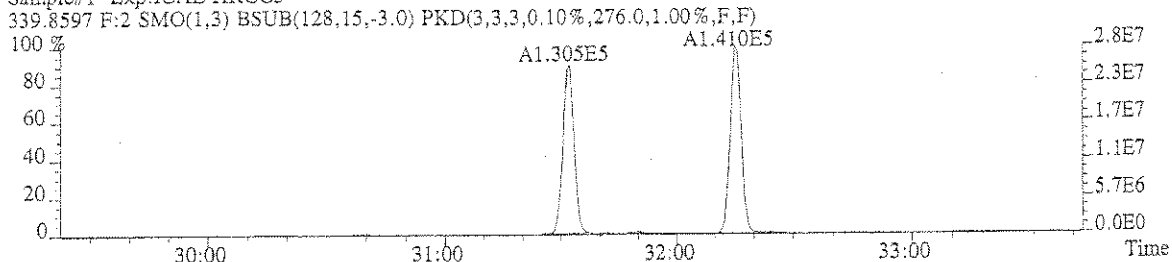
354.9792 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



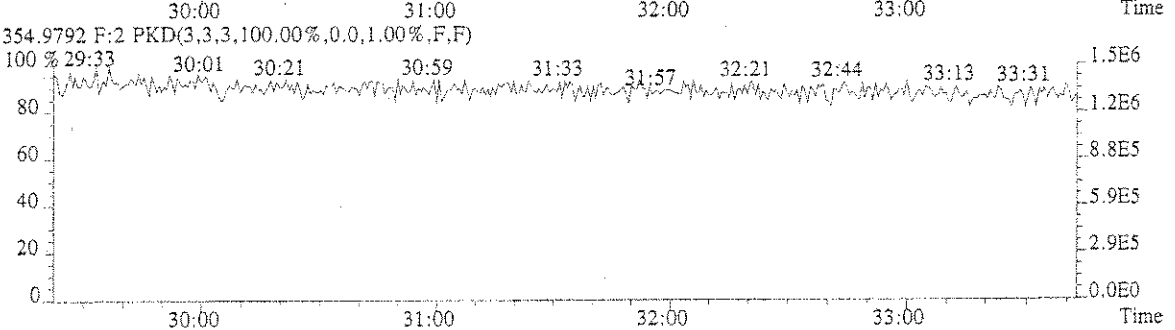
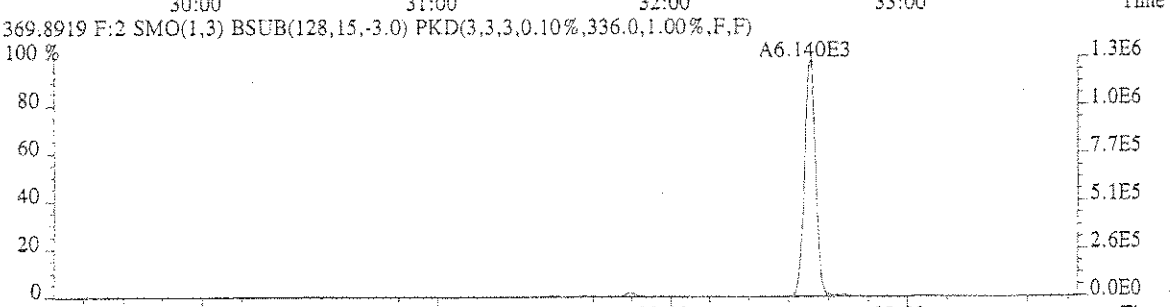
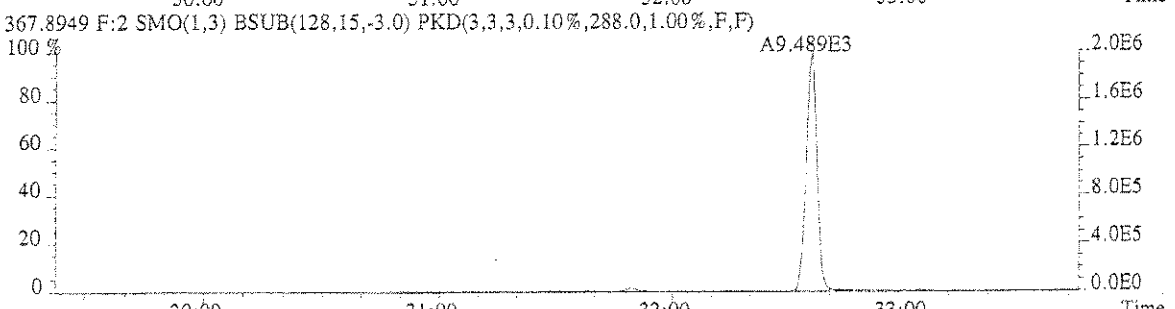
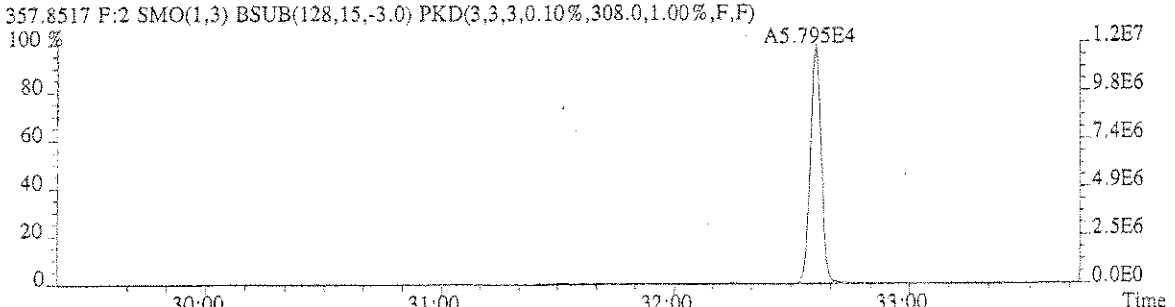
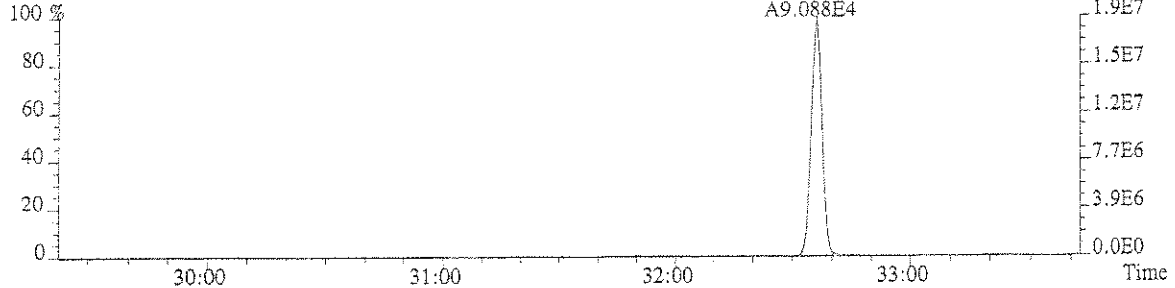
File:U120210 #1-548 Acq: 2-APR-2007 17:13:27 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp:ICAL HRCC5



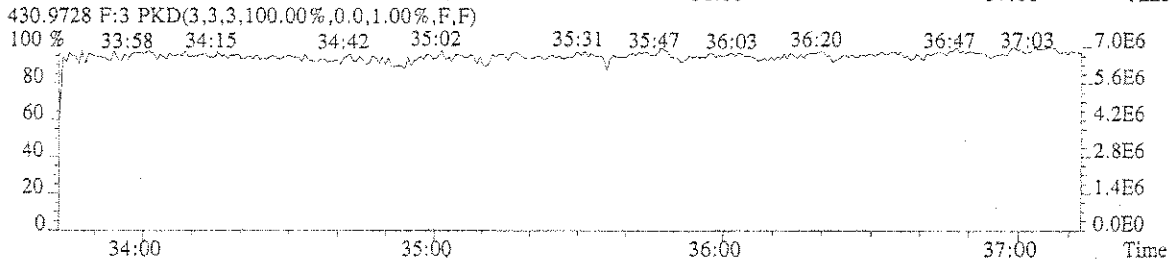
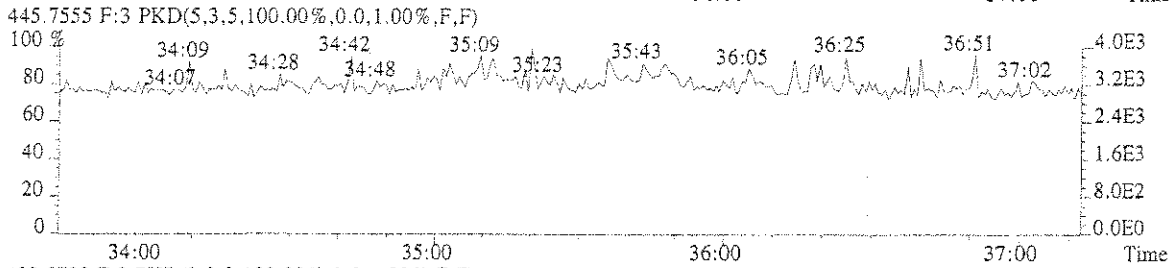
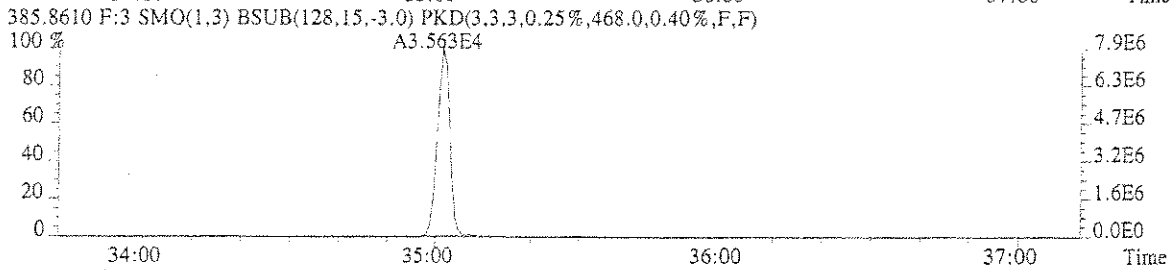
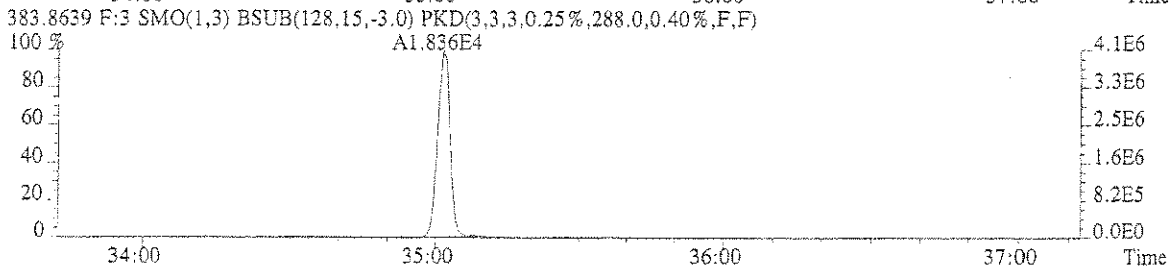
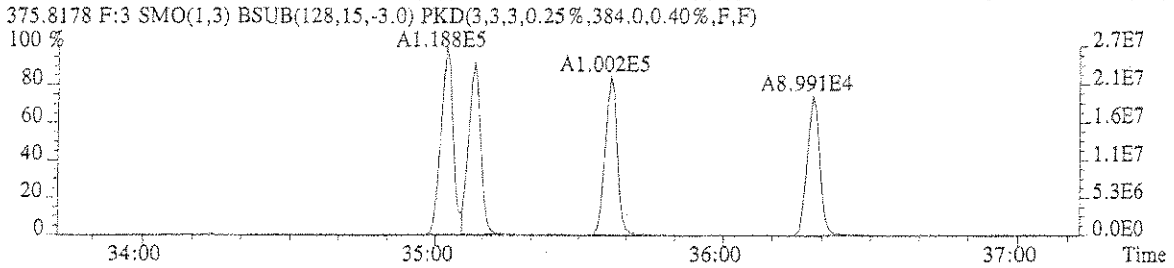
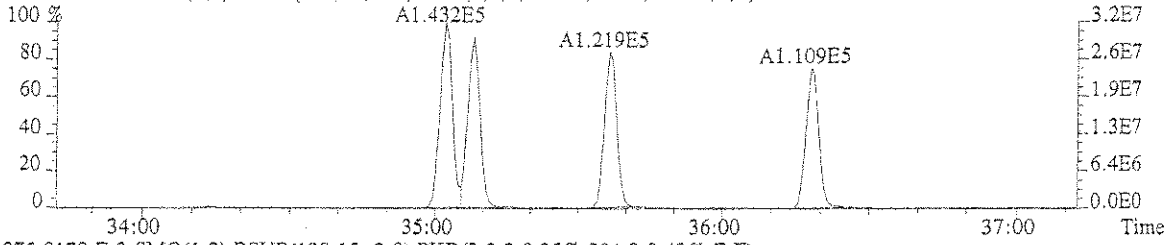
File:U120210 #1-394 Acq: 2-APR-2007 17:13:27 Probe EI+ Magnet SIR VG BioTech Mass spectr
 Sample#1 Exp:ICAL HRCC5



File: U120210 #1-394 Acq: 2-APR-2007 17:13:27 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp: ICAL HRCC5
355.8546 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,472.0,1.00%,F,F)



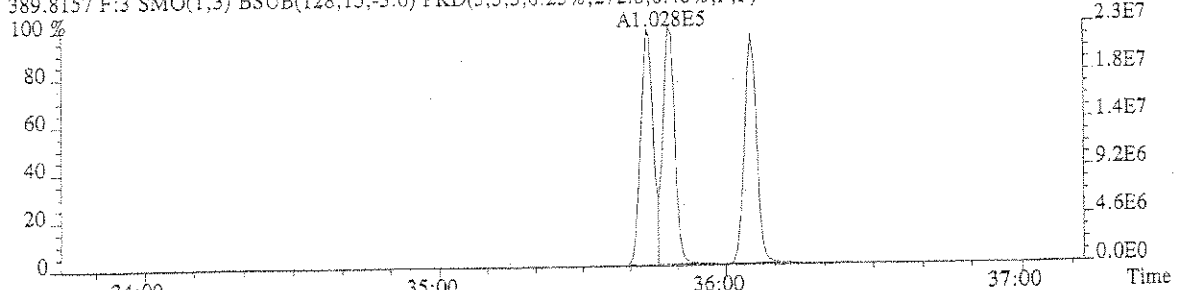
File:U120210 #1-318 Acq: 2-APR-2007 17:13:27 Probe EI+ Magnet SIR VG BioTech Mass specif
Sample#1 Exp:ICAL HRCC5
373.8208 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,376.0,0.40%,F,F)



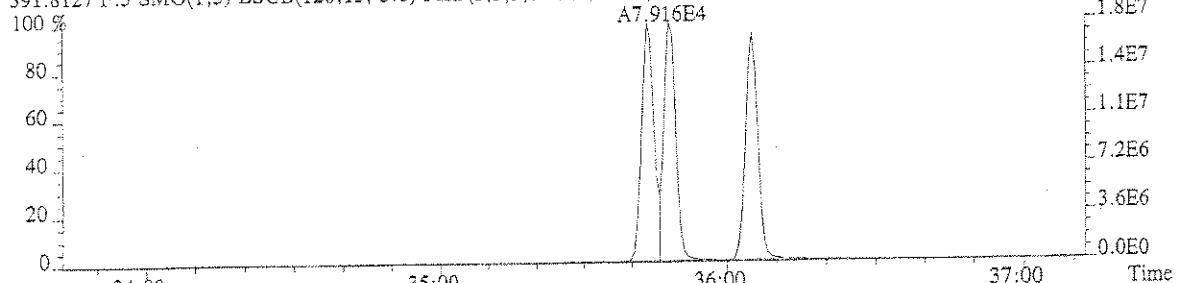
File:U120210 #1-318 Acq: 2-APR-2007 17:13:27 Probe EI+ Magnet SIR VG BioTech Mass spectf

Sample#1 Exp:ICAL HRCC5

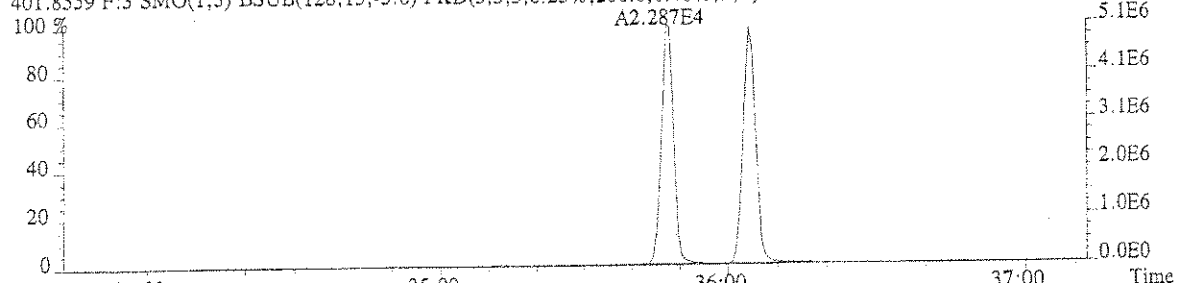
389.8157 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,272.0,0.40%,F,F)



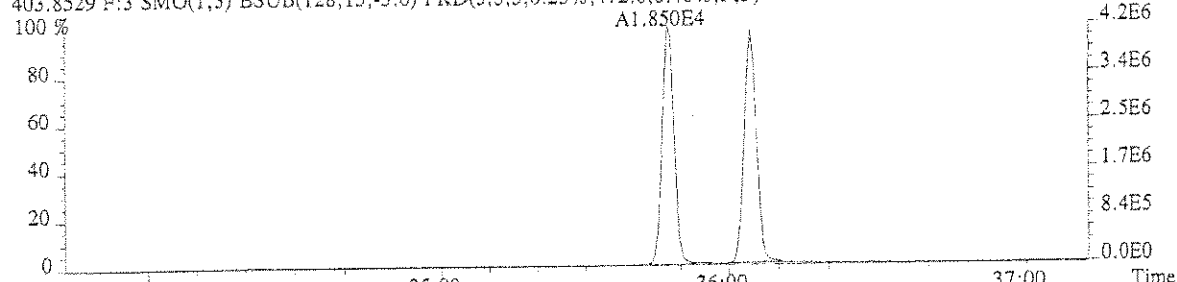
391.8127 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,268.0,0.40%,F,F)



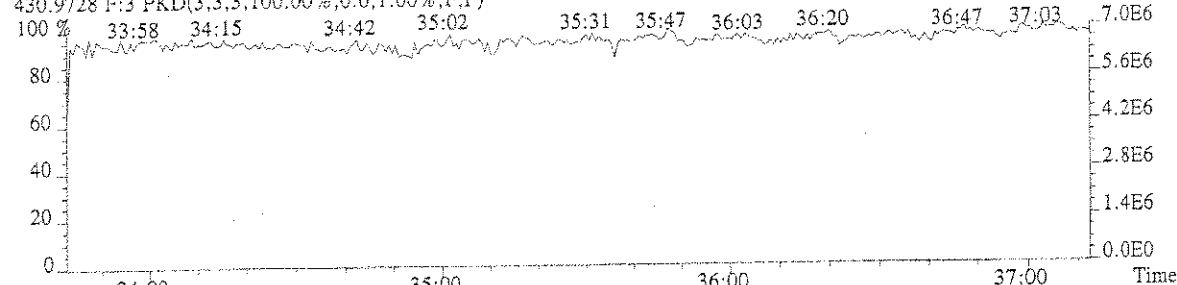
401.8559 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,200.0,0.40%,F,F)



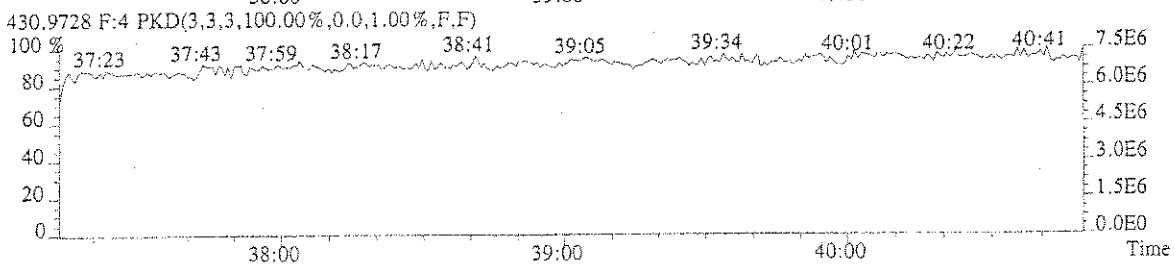
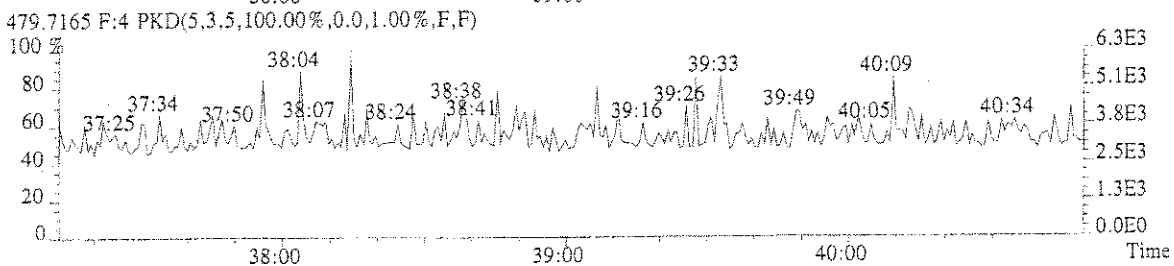
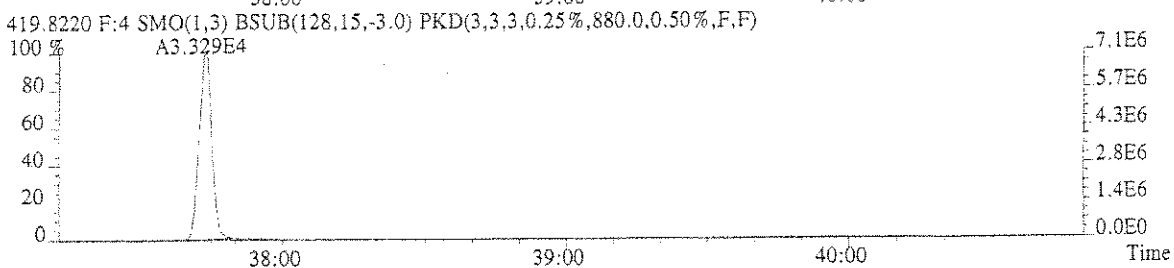
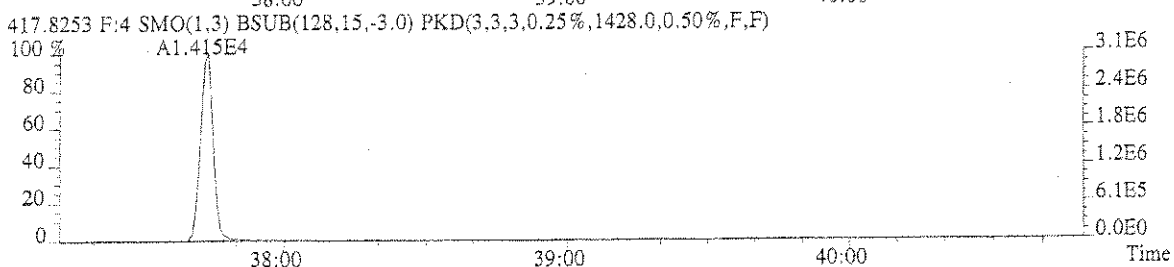
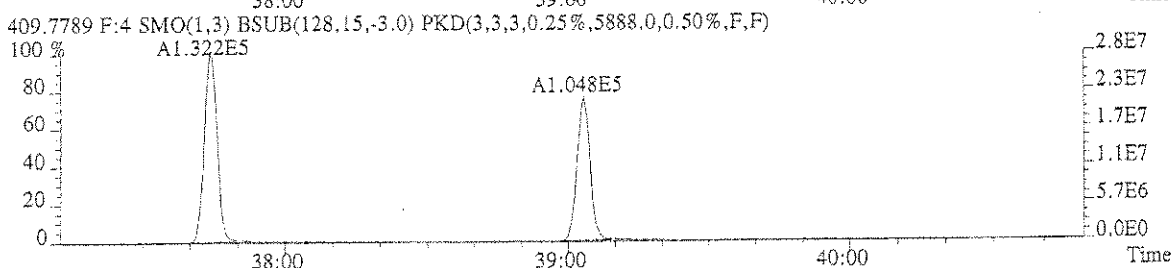
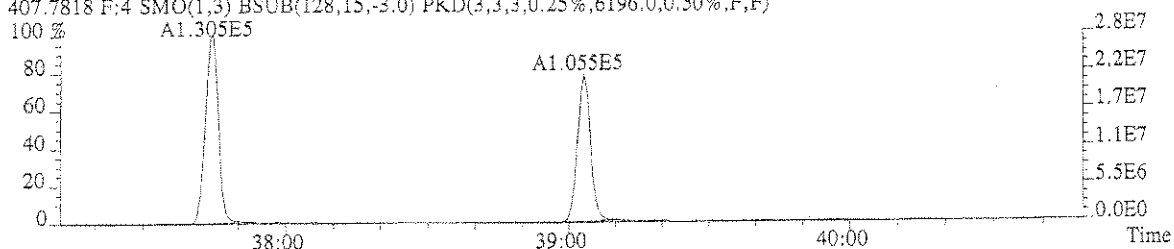
403.8529 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,472.0,0.40%,F,F)



430.9728 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



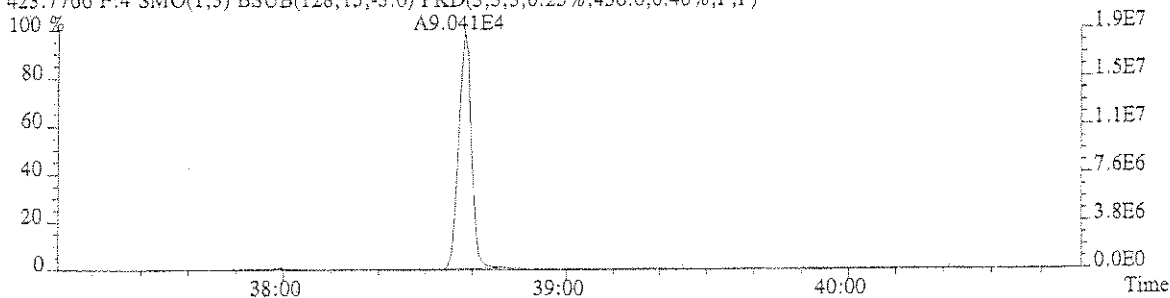
File: UI20210 #1-327 Acq: 2-APR-2007 17:13:27 Probe EI+ Magnet SIR VG BioTech Mass spectf
Sample#1 Exp: ICAL HRCC5
407.7818 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,6196.0,0.50%,F,F)



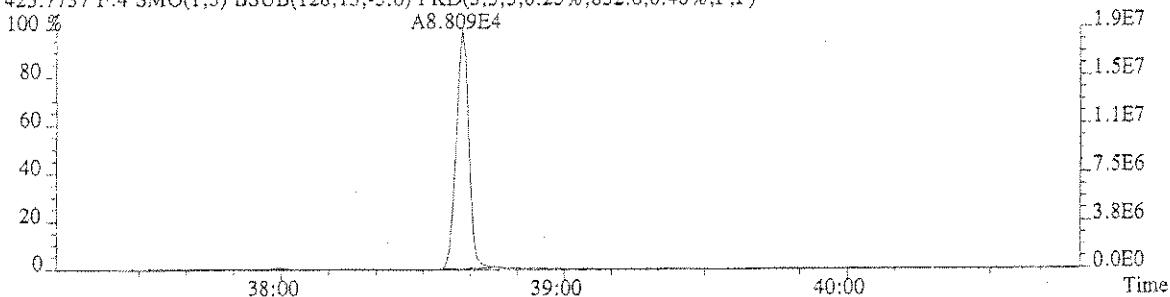
File:U120210 #1-327 Acq: 2-APR-2007 17:13:27 Probe EI+ Magnet SIR VG BioTech Mass spectr

Sample#1 Exp:ICAL HRCC5

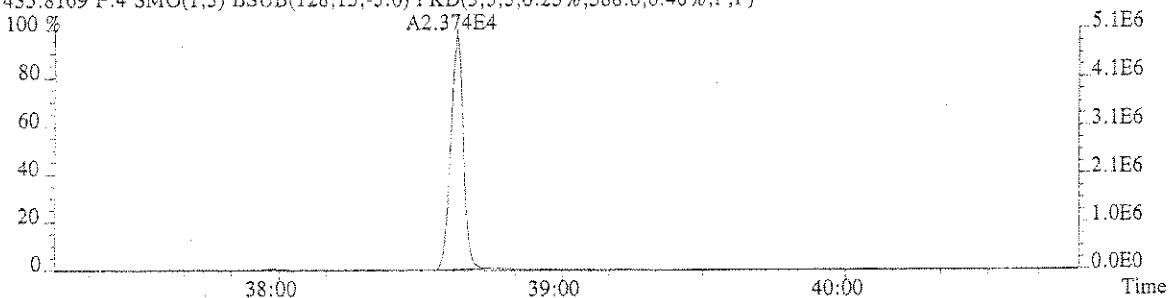
423.7766 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,436.0,0.40%,F,F)



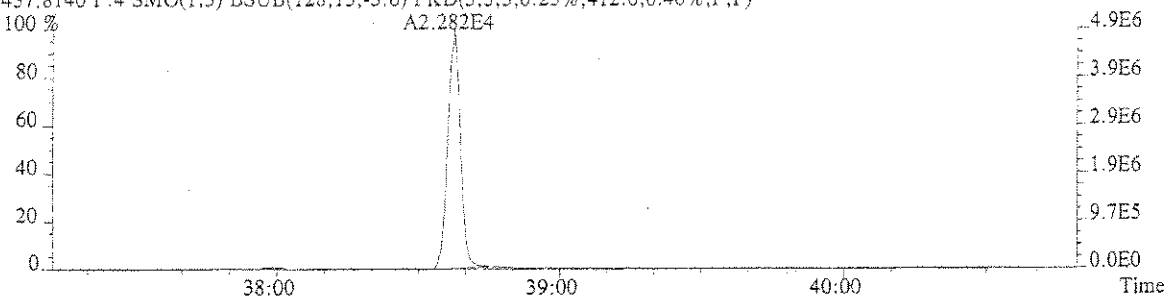
425.7737 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,852.0,0.40%,F,F)



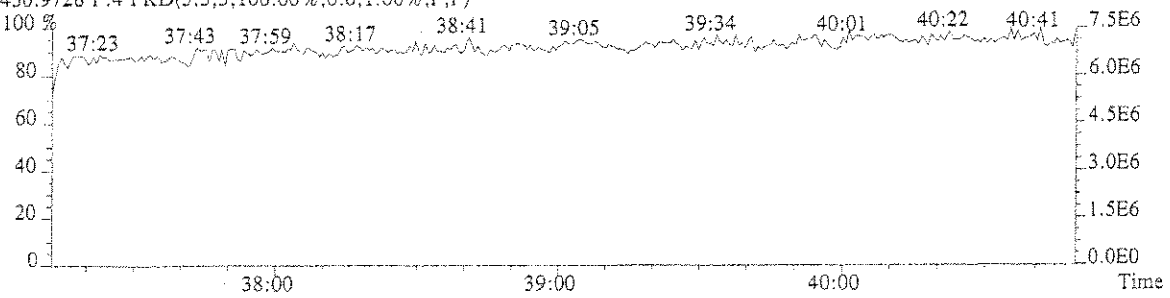
435.8169 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,588.0,0.40%,F,F)



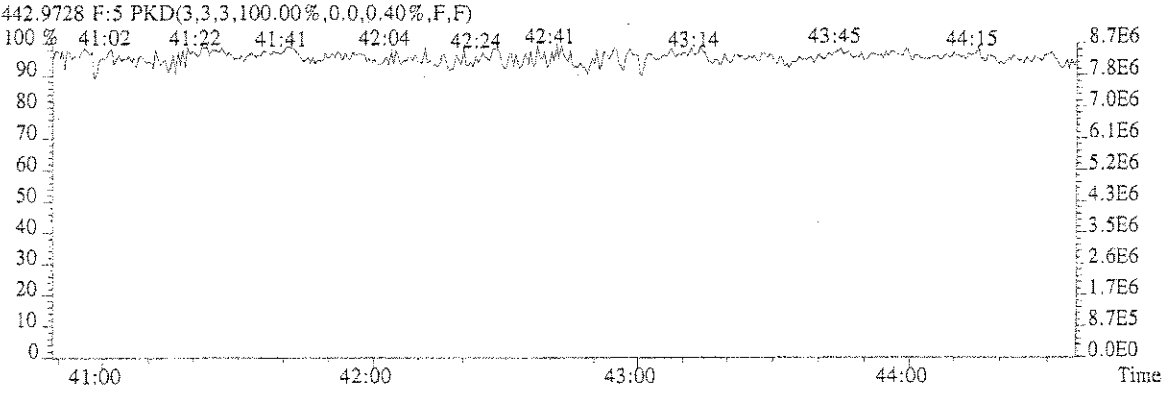
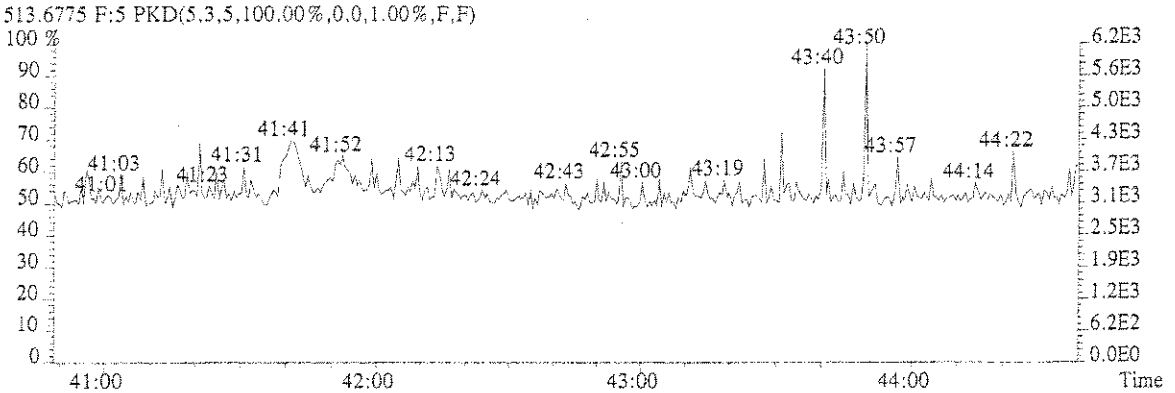
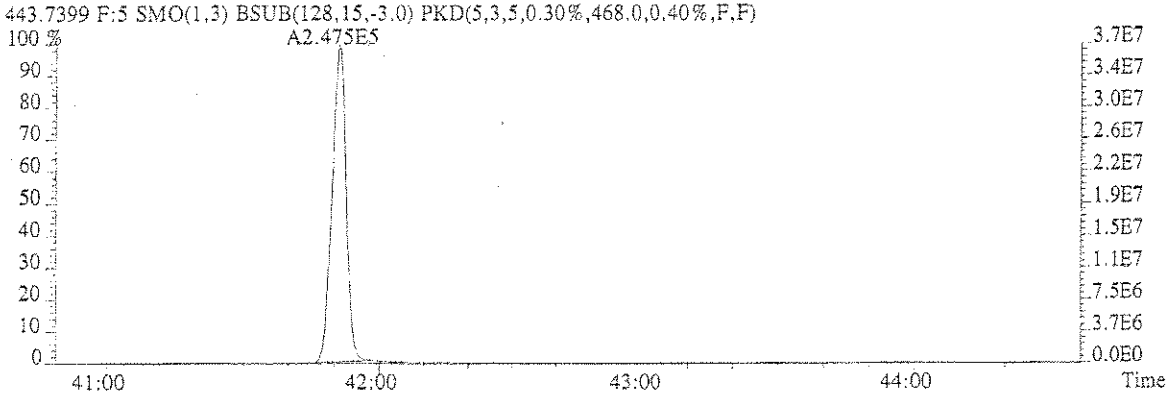
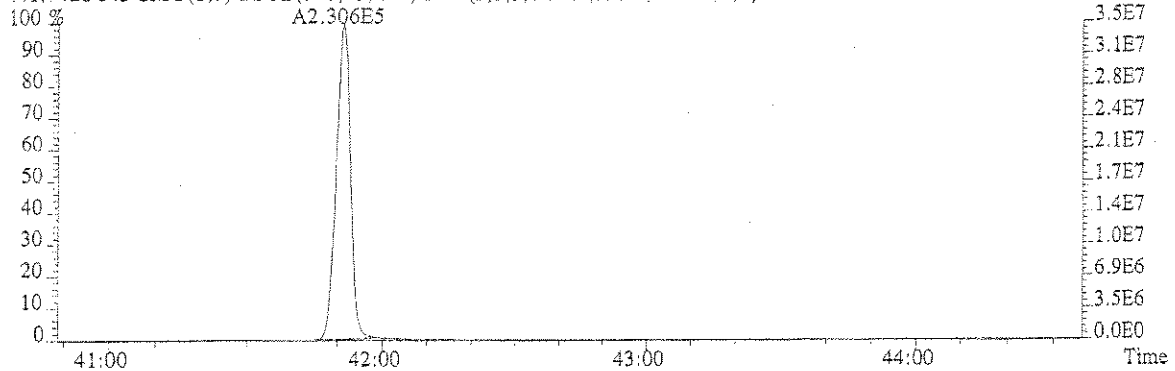
437.8140 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.25%,412.0,0.40%,F,F)



430.9728 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



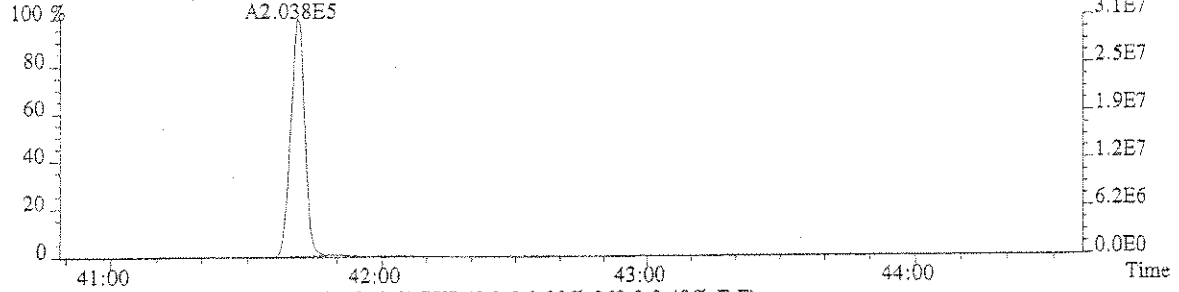
File: U120210 #1-420 Acq: 2-APR-2007 17:13:27 Probe EI+ Magnet SIR VG BioTech Mass spect
Sample#1 Exp: ICAL HRCC5
441.7428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,296.0,0.40%,F,F)



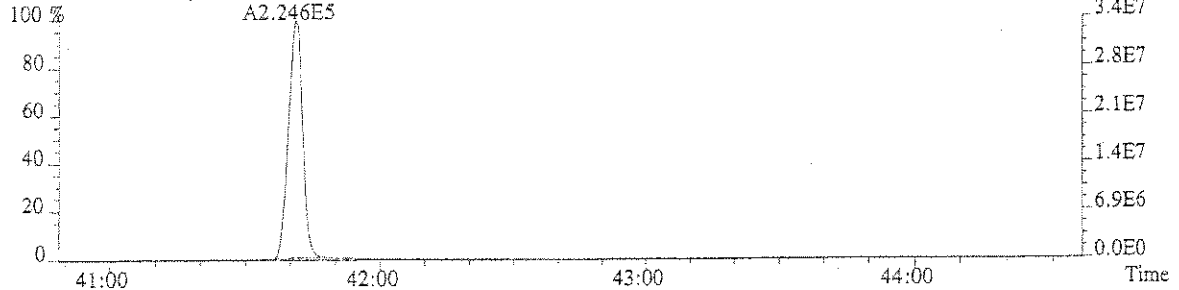
File:U120210 #1-420 Acq: 2-APR-2007 17:13:27 Probe EI+ Magnet SIR VG BioTech Mass spectf

Sample#1 Exp:ICAL HRCC5

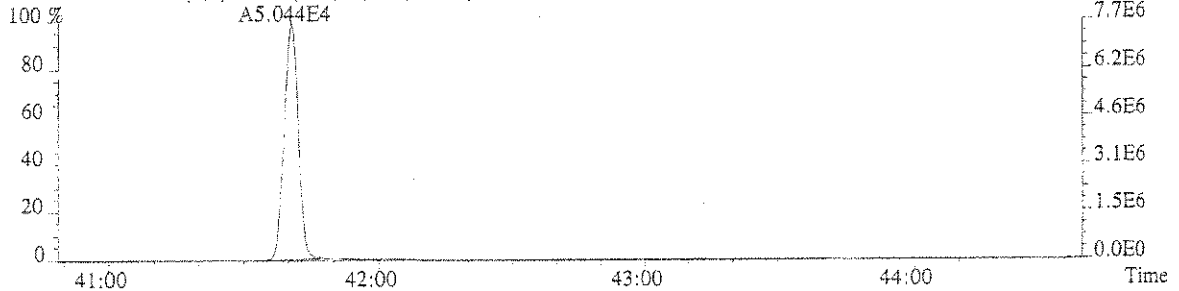
457.7377 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,128.0,0.40%,F,F)



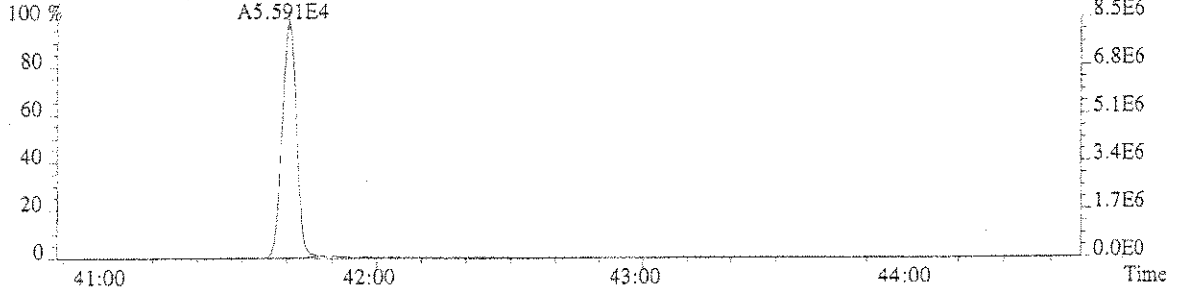
459.7348 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,368.0,0.40%,F,F)



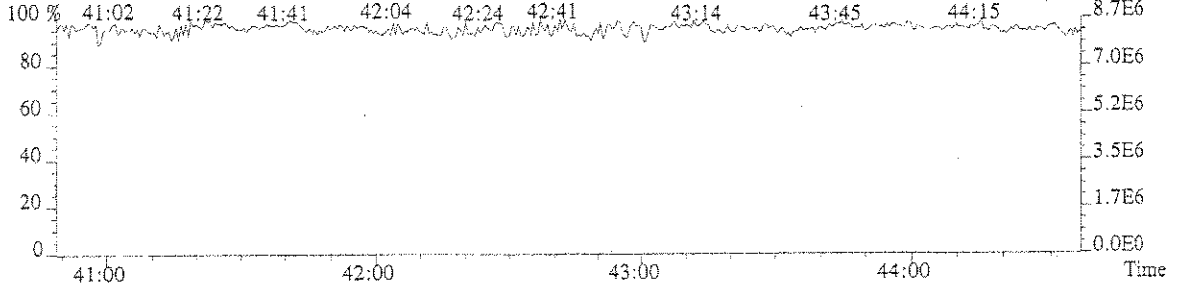
469.7779 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,276.0,0.40%,F,F)



471.7750 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(5,3,5,0.30%,292.0,0.40%,F,F)



442.9728 F:5 PKD(3,3,3,100.00%,0.0,0.40%,F,F)





CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475 PAGE 1 OF 1

SR # _____

CAS Contact _____

Project Name	Project Number	Report CC	ANALYSIS REQUESTED (Include Method Number and Container Preservative)	PRESERVATIVE	NUMBER OF CONTAINERS	CLIENT SAMPLE ID	FOR OFFICE USE ONLY	SAMPLING DATE	SAMPLING TIME	MATRIX	REMARKS/ ALTERNATE DESCRIPTION	INVOICE INFORMATION
DD Troy Municipal Incinerator Site	002699 ID09.03											
<p>Project Manager: <u>JON Nickerson</u></p> <p>Company/Address: <u>Ecology + Environment, Inc.</u> <u>368 Pleasantview Drive</u> <u>Lancaster, NY 14086</u></p> <p>Phone #: <u>716 6848060</u> FAX#: <u>716 6848044</u></p> <p>Sampler's Signature: <u>[Signature]</u> Sampler's Printed Name: <u>JAMES MAYS</u></p> <p>CLIENT SAMPLE ID: <u>OTMI-5B02</u> FOR OFFICE USE ONLY LAB ID: <u>1025097</u> SAMPLING DATE: <u>8/10/07</u> SAMPLING TIME: <u>1415</u> MATRIX: <u>SOIL</u></p> <p>DATE/TIME: <u>OTMI-5B201</u> <u>1025098</u> <u>8/10/07</u> <u>1420</u> <u>SOIL</u> <u>2</u></p>												
<p>Preservative Key:</p> <ul style="list-style-type: none"> 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO4 8. Other _____ 												
<p>TURNAROUND REQUIREMENTS (SURCHARGES APPLY)</p> <p>___ RUSH (SURCHARGES APPLY) ___ 24 hr ___ 48 hr ___ 5 day</p> <p><input checked="" type="checkbox"/> STANDARD REQUESTED FAX DATE _____ REQUESTED REPORT DATE _____</p>												
<p>SPECIAL INSTRUCTIONS/COMMENTS</p> <p>Metals</p> <p style="font-size: 24px; font-weight: bold;">: PLEASE check with Jon Nickerson for REPORT Requirements:</p> <p>See QAPP <input type="checkbox"/></p>												
<p>REPORT REQUIREMENTS</p> <ul style="list-style-type: none"> ___ I. Results Only ___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required) ___ III. Results + QC and Calibration Summaries ___ IV. Data Validation Report with Raw Data ___ V. Specialized Forms / Custom Report <p>Edata <input checked="" type="checkbox"/> Yes ___ No</p>												
<p>RELINQUISHED BY</p> <p>Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____</p>												
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<p>RECEIVED BY</p> <p>Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____</p>												

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client E3E Submission Number _____

Cooler received on 8/3/07 by: PK COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant air bubbles? YES NO N/A
5. Were **Ice or Ice packs** present? YES NO
6. Where did the bottles originate? CAS/ROC, CLIENT
7. Temperature of cooler(s) upon receipt: 40

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 8/3/07 @ 1740

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples

PC Secondary Review: 9/8/11

Cooler Breakdown: Date: 8/26/07 by: [Signature]

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added	Final pH
pH	Reagent						
≥12	NaOH						
≥2	HNO ₃						
≥2	H ₂ SO ₄						
Residual Chlorine (+/-)	for TCN & Phenol						

YES = All samples OK

NO = Samples were preserved at lab as listed

PC OK to adjust pH _____

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:

PC Secondary Review: 8/18/07