

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122515\
 Data File : BF084151.D
 Acq On : 26 Dec 2015 1:53
 Operator : UM/SJ
 Sample : G4954-10
 Misc :
 ALS Vial : 68 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 1SP-1(0-2)8E

Manual Integrations
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Sohil
 12/28/2015 5:58:41 PM

Quant Time: Dec 26 06:15:46 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 24 16:48:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	50900	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	160355	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	66420	20.00	ng	0.01
63) Phenanthrene-d10	11.33	188	120514	20.00	ng	0.01
75) Chrysene-d12	13.97	240	99350	20.00	ng	0.01
86) Perylene-d12	15.40	264	81571	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	342034	113.93	ng	0.00
7) Phenol-d6	6.46	99	449371	120.96	ng	0.01
23) Nitrobenzene-d5	7.37	82	260659	95.15	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	84554	119.38	ng	0.02
44) 2-Fluorobiphenyl	9.17	172	403569	83.14	ng	0.01
78) Terphenyl-d14	12.91	244	288908	52.62	ng	0.01
Target Compounds						Qvalue
31) Naphthalene	8.11	128	132796m	15.57	ng	
37) 2-Methylnaphthalene	8.81	142	262918	49.23	ng	# 94
48) Acenaphthylene	9.71	152	45672	6.10	ng	# 60
49) Dimethylphthalate	9.56	163	85953	15.63	ng	# 84
51) Acenaphthene	9.88	154	57507	13.20	ng	# 92
57) Fluorene	10.40	166	91424	17.95	ng	# 89
70) Phenanthrene	11.36	178	247919	34.70	ng	# 96
74) Fluoranthene	12.54	202	210597	24.85	ng	97
77) Pyrene	12.77	202	249222	29.08	ng	99
80) Benzo(a)anthracene	13.96	228	114344m	18.71	ng	
82) Chrysene	14.00	228	105182m	18.66	ng	
83) Bis(2-ethylhexyl)phthalate	13.95	149	20710	4.52	ng	# 83
85) Indeno(1,2,3-cd)pyrene	16.81	276	51704	9.16	ng	# 91
87) Benzo(b)fluoranthene	14.99	252	114967m	18.98	ng	
88) Benzo(k)fluoranthene	15.00	252	51722m	12.60	ng	
89) Benzo(a)pyrene	15.35	252	80484	16.13	ng	# 90
90) Dibenzo(a,h)anthracene	16.81	278	12630	2.59	ng	# 68
91) Benzo(g,h,i)perylene	17.23	276	50042	10.07	ng	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

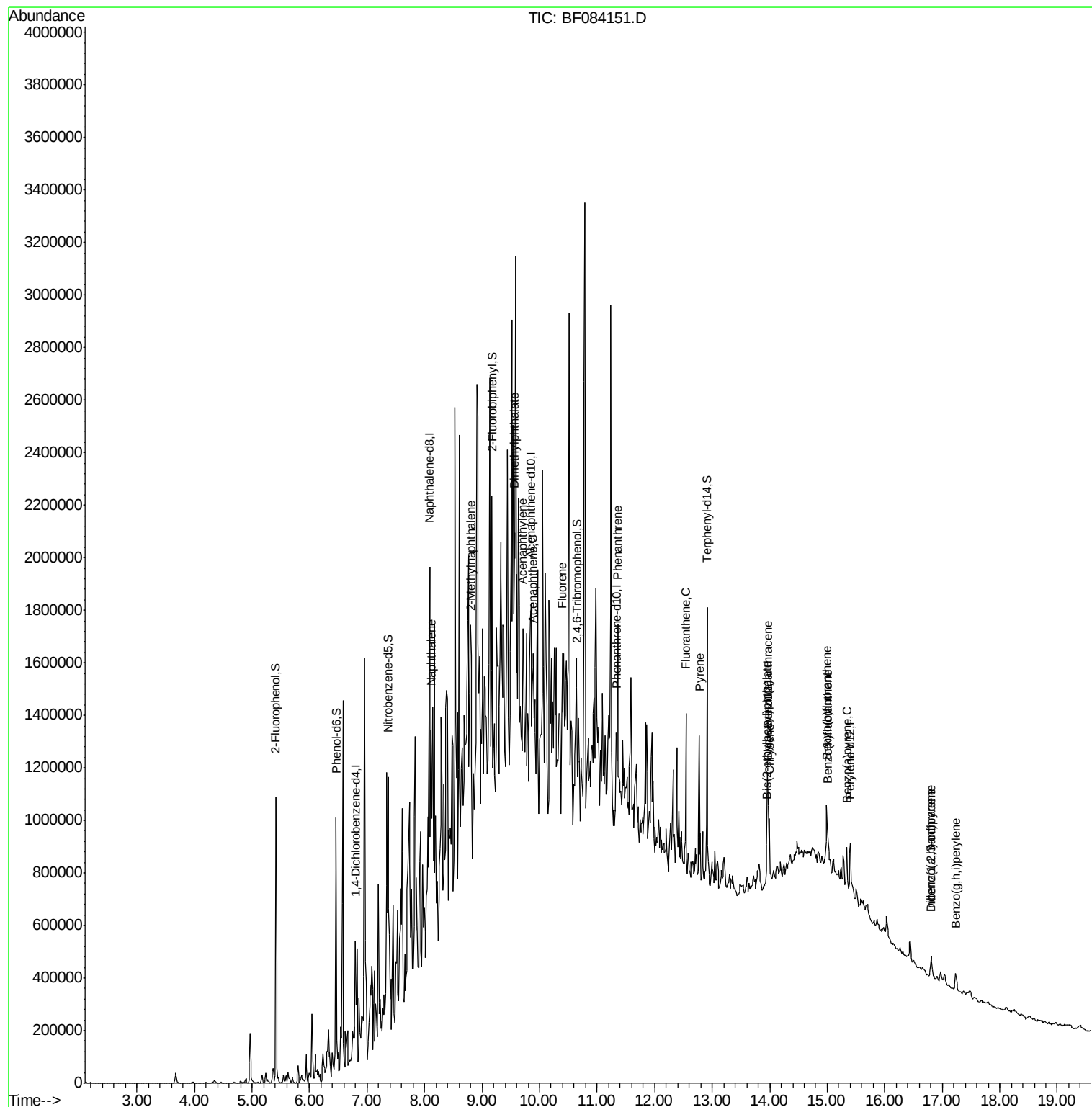
Data Path : Z:\HPCHEM1\BNA F\DATA\BF122515\
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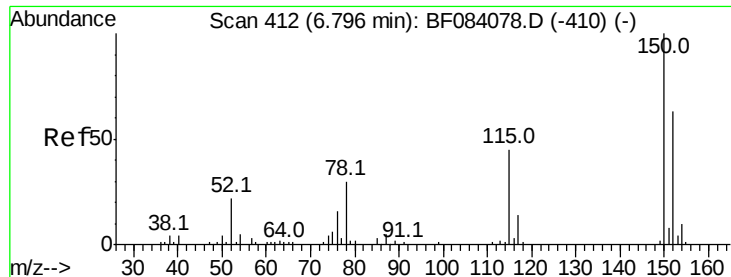
Instrument :
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 412

Delta R.T. -0.00 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Instrument :

BNA_F

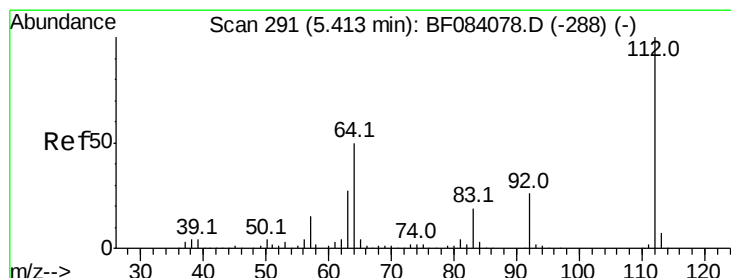
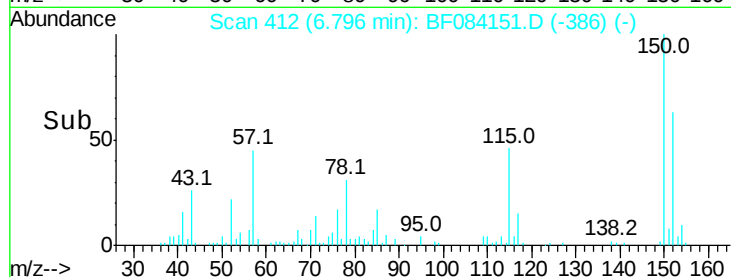
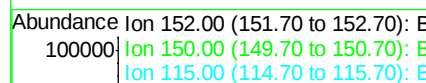
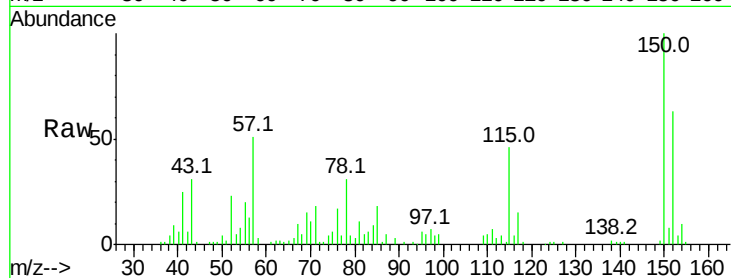
ClientSampleId :

1SP-1(0-2)8E

Tot Ion:	152	Resp:	50900
Ion Ratio	Lower	Upper	
152	100		
150	160.0	123.0	184.4
115	74.1	51.4	77.2

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#5

2-Fluorophenol

Concen: 113.93 ng

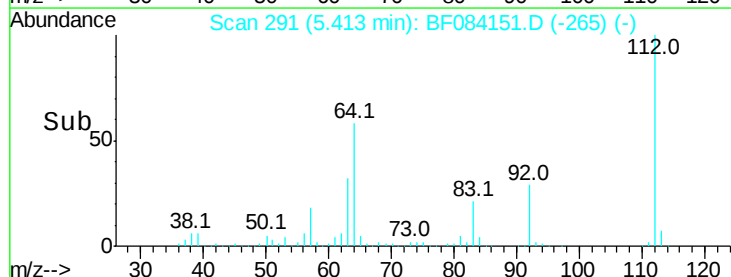
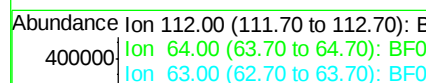
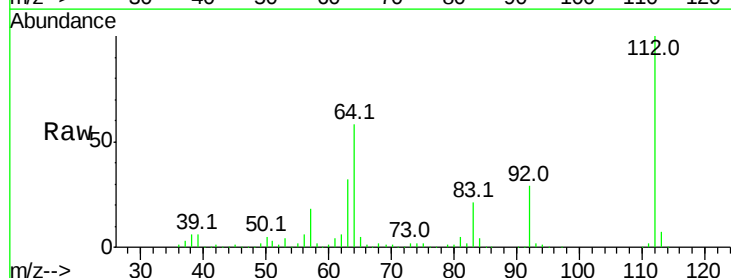
RT: 5.41 min Scan# 291

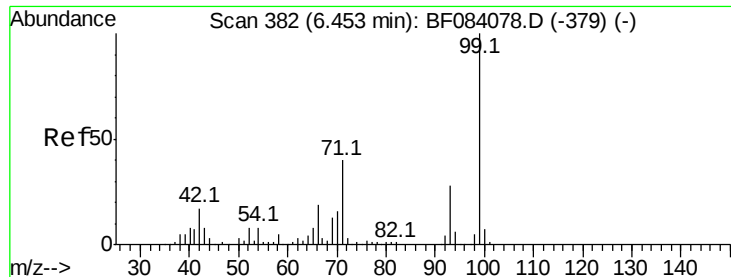
Delta R.T. 0.00 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Tgt Ion:	112	Resp:	342034
Ion Ratio	Lower	Upper	
112	100		
64	58.0	36.6	55.0#
63	31.8	19.4	29.0#





#7

Phenol-d6

Concen: 120.96 ng

RT: 6.46 min Scan# 383

Delta R.T. 0.01 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Instrument :

BNA_F

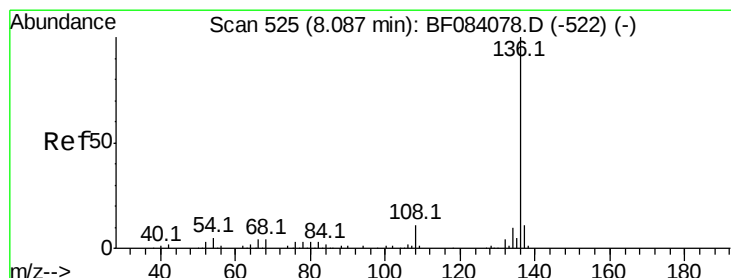
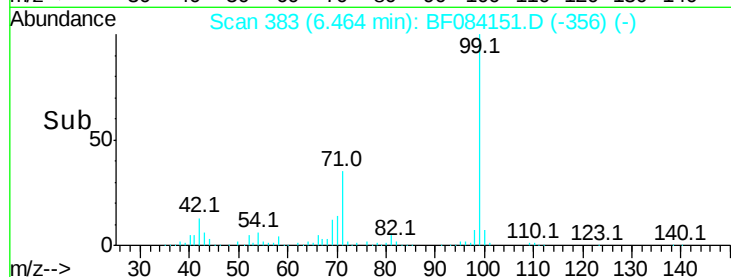
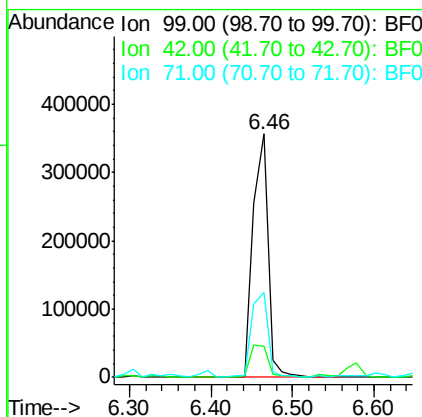
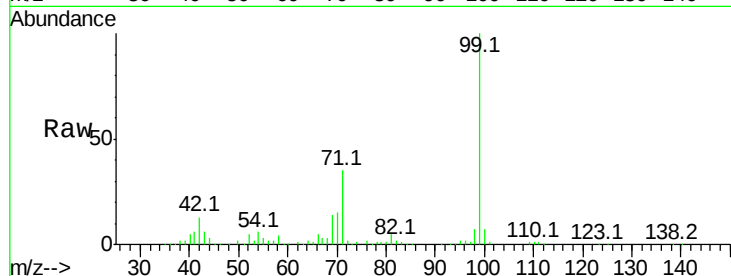
ClientSampleId :

1SP-1(0-2)8E

Tot Ion:	99	Resp:	449371
Ion Ratio	Lower	Upper	
99	100		
42	12.8	12.8	19.2
71	34.7	30.9	46.3

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#21

Naphthalene-d8

Concen: 20.00 ng

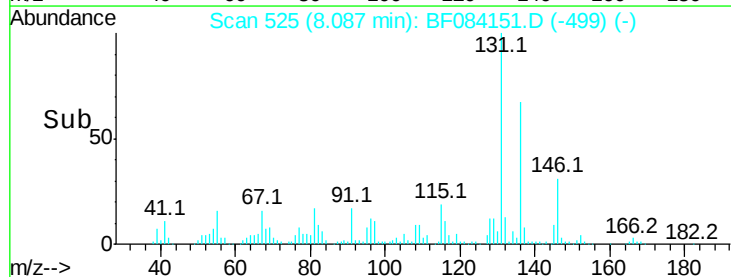
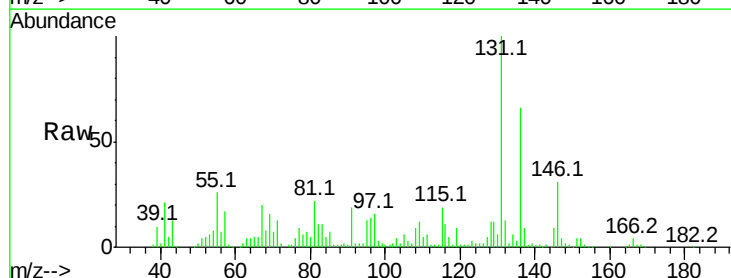
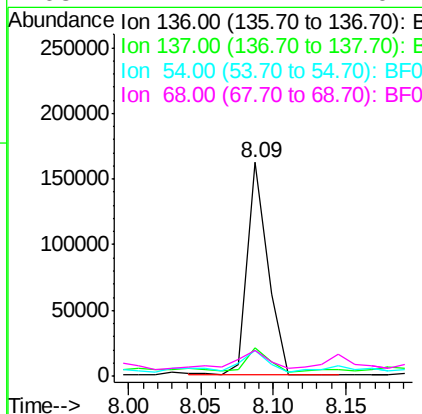
RT: 8.09 min Scan# 525

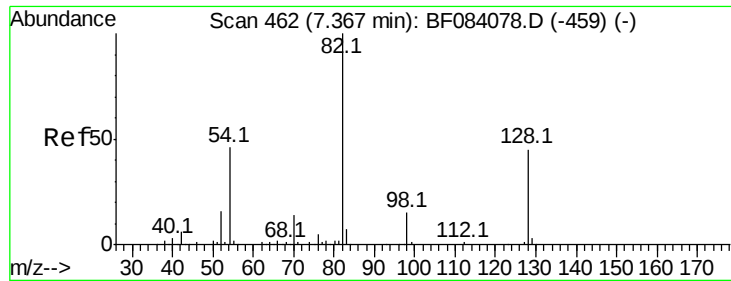
Delta R.T. -0.00 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Tgt Ion:	136	Resp:	160355
Ion Ratio	Lower	Upper	
136	100		
137	13.0	8.7	13.1
54	12.3	5.8	8.8#
68	12.2	4.2	6.2#





#23

Nitrobenzene-d5

Concen: 95.15 ng

RT: 7.37 min Scan# 462

Delta R.T. -0.00 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Instrument :

BNA_F

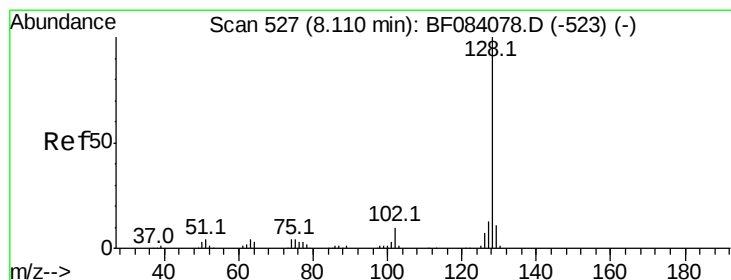
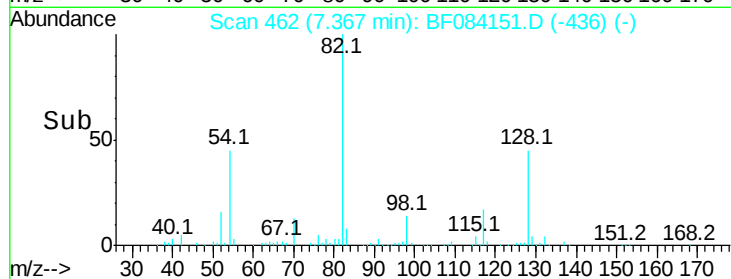
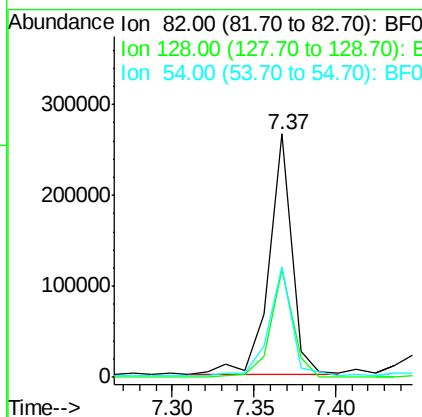
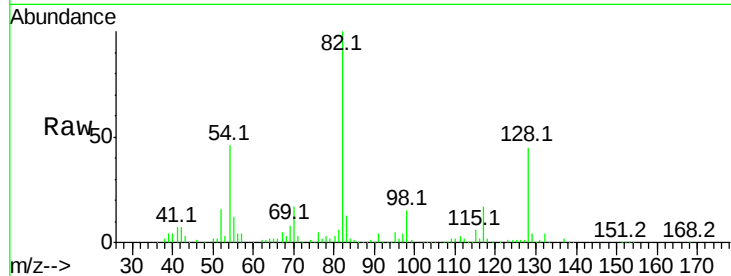
ClientSampleId :

1SP-1(0-2)8E

Tot Ion:	82	Resp:	260659
Ion Ratio	Lower	Upper	
82	100		
128	44.5	34.6	51.8
54	45.5	38.4	57.6

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#31

Naphthalene

Concen: 15.57 ng m

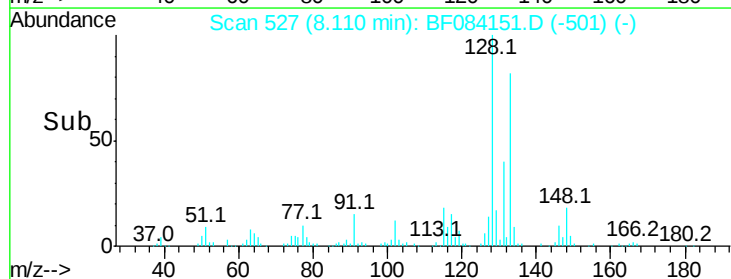
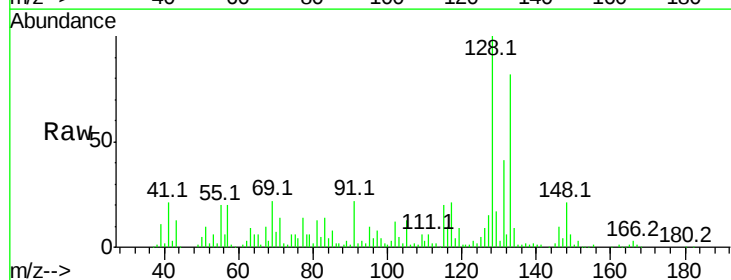
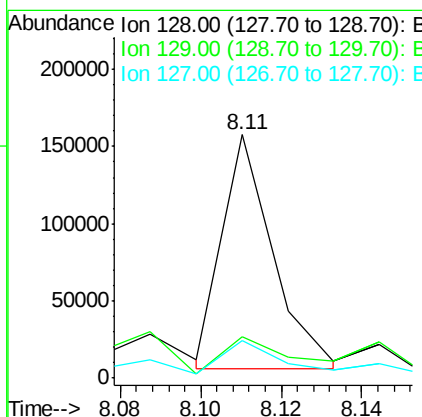
RT: 8.11 min Scan# 527

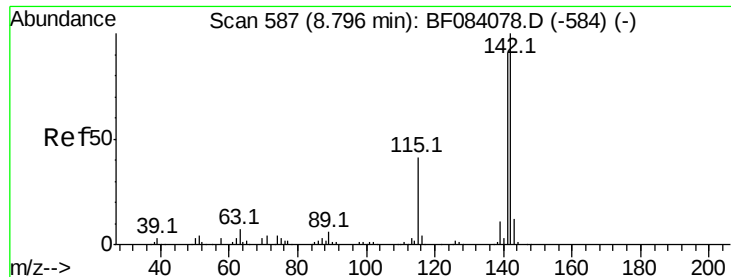
Delta R.T. -0.00 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Tgt Ion:	128	Resp:	132796
Ion Ratio	Lower	Upper	
128	100		
129	17.1	9.1	13.7#
127	15.3	11.1	16.7





#37

2-Methylnaphthalene

Concen: 49.23 ng

RT: 8.81 min Scan# 588

Delta R.T. 0.01 min

Lab File: BF084151.D

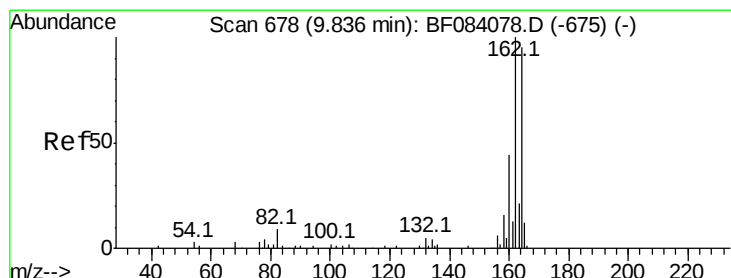
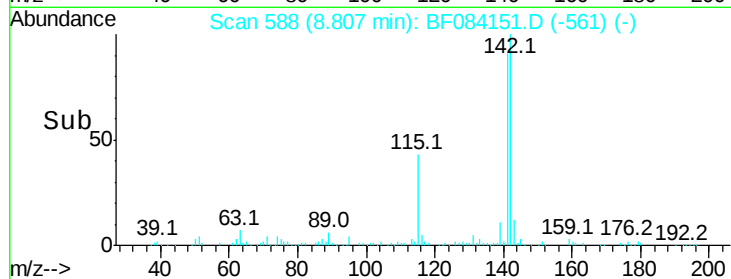
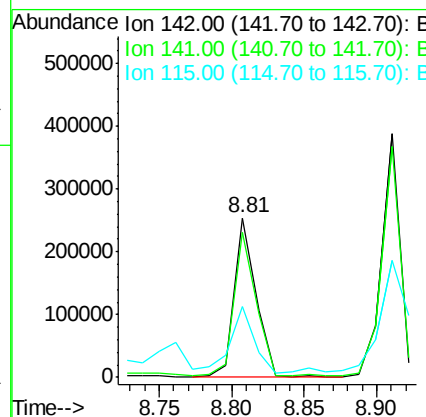
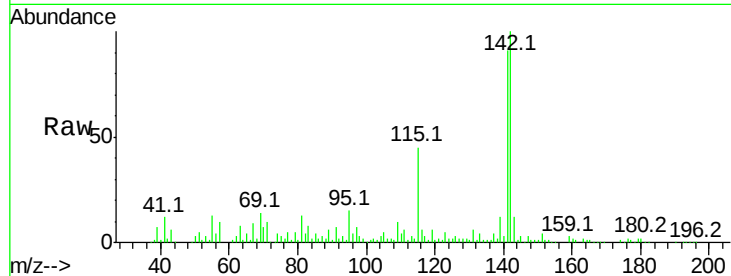
Acq: 26 Dec 2015 1:53

Instrument :
BNA_F
ClientSampleId :
1SP-1(0-2)8E

Tot Ion	Ratio	Resp Lower	Upper
142	100		
141	91.4	72.4	108.6
115	44.9	27.9	41.9

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#38

Acenaphthene-d10

Concen: 20.00 ng

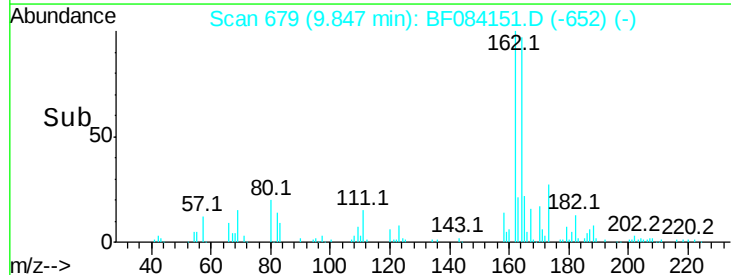
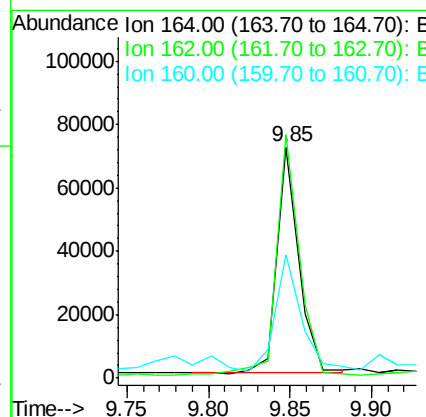
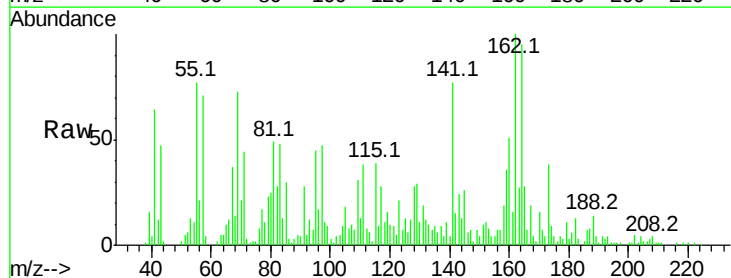
RT: 9.85 min Scan# 679

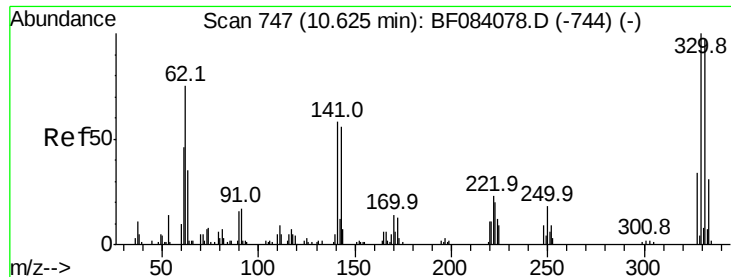
Delta R.T. 0.01 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Tgt Ion	Ratio	Resp Lower	Upper
164	100		
162	105.3	85.1	127.7
160	53.5	37.5	56.3





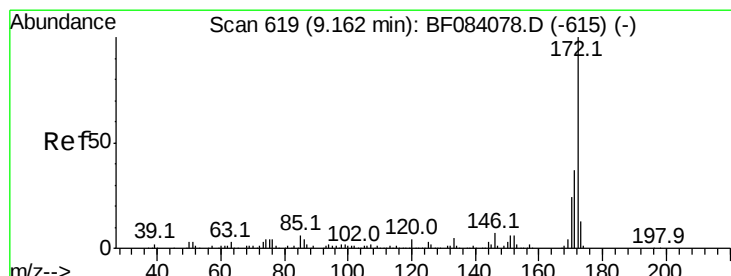
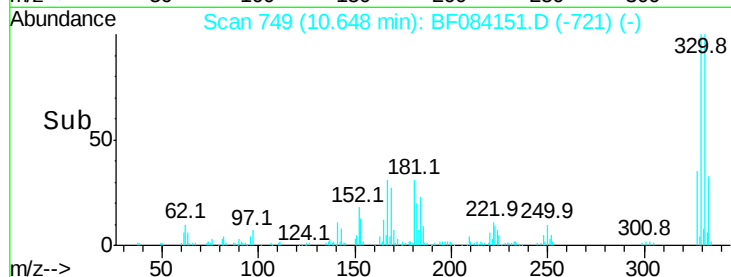
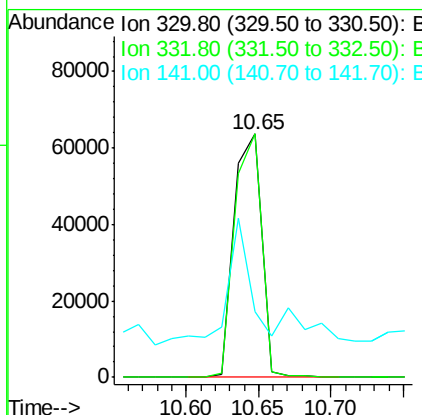
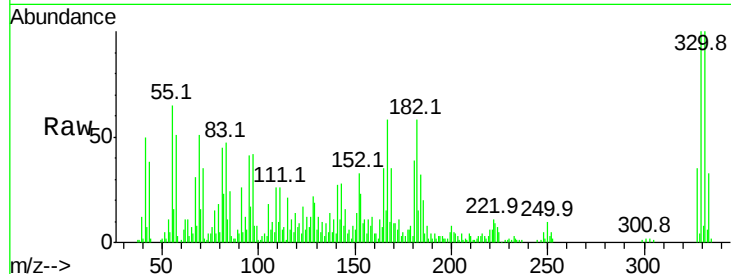
#41
 2,4,6-Tribromophenol
 Concen: 119.38 ng
 RT: 10.65 min Scan# 749
 Delta R.T. 0.02 min
 Lab File: BF084151.D
 Acq: 26 Dec 2015 1:53

Instrument :
 BNA_F
 ClientSampleId :
 1SP-1(0-2)8E

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.7	76.6	114.8
141	34.5	27.8	41.6

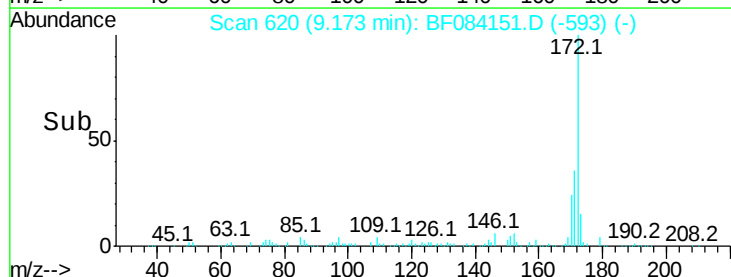
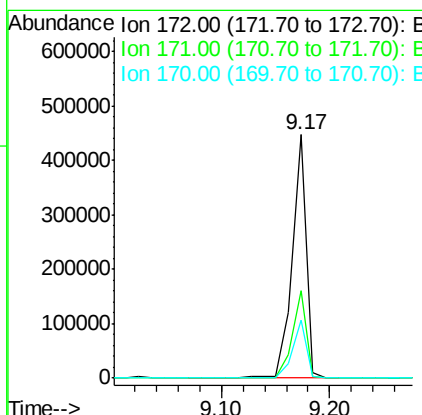
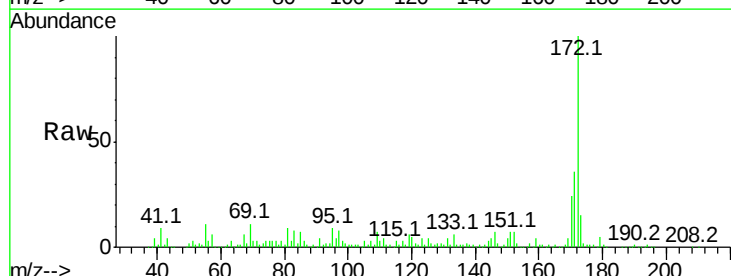
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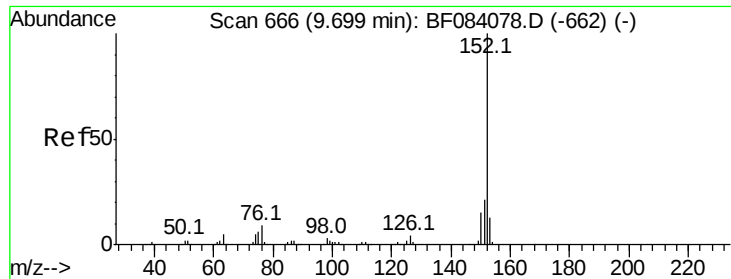
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#44
 2-Fluorobiphenyl
 Concen: 83.14 ng
 RT: 9.17 min Scan# 620
 Delta R.T. 0.01 min
 Lab File: BF084151.D
 Acq: 26 Dec 2015 1:53

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.9	43.3
170	23.9	18.6	27.8





#48

Acenaphthylene

Concen: 6.10 ng

RT: 9.71 min Scan# 667

Delta R.T. 0.01 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Instrument :

BNA_F

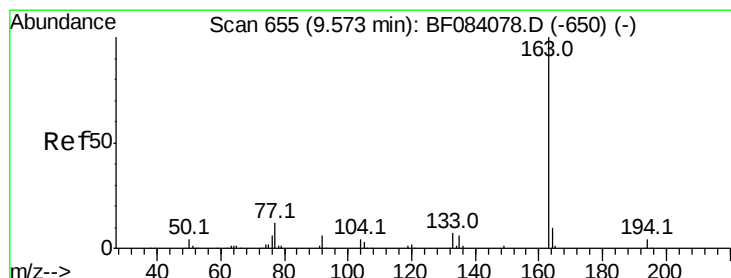
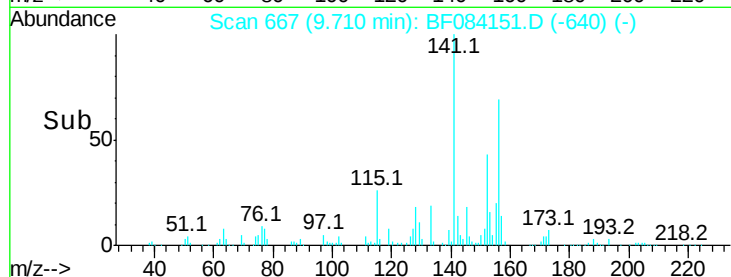
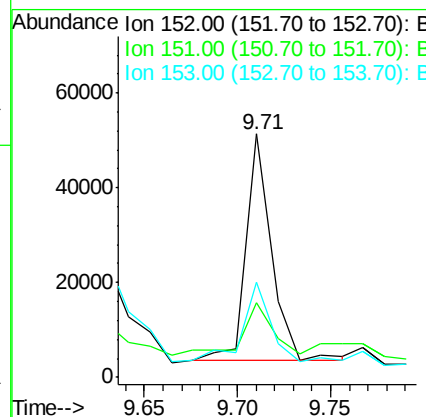
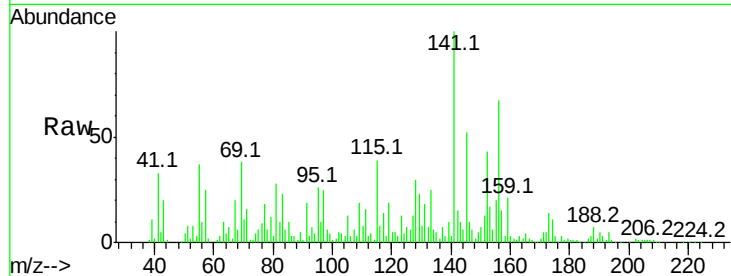
ClientSampleId :

1SP-1(0-2)8E

Tot Ion:	152	Resp:	45672
Ion Ratio	Lower	Upper	
152	100		
151	30.9	16.3	24.5#
153	39.2	10.4	15.6#

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#49

Dimethylphthalate

Concen: 15.63 ng

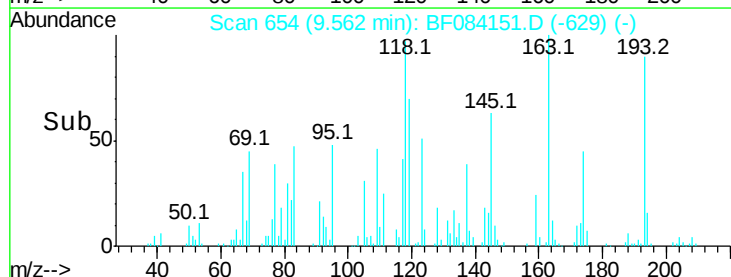
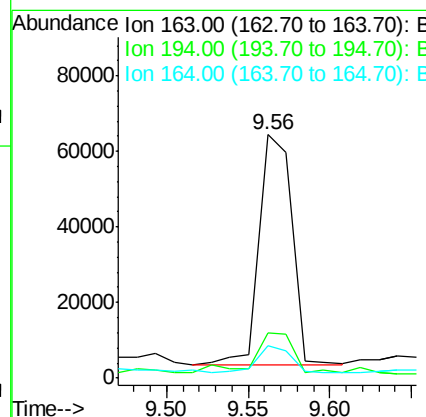
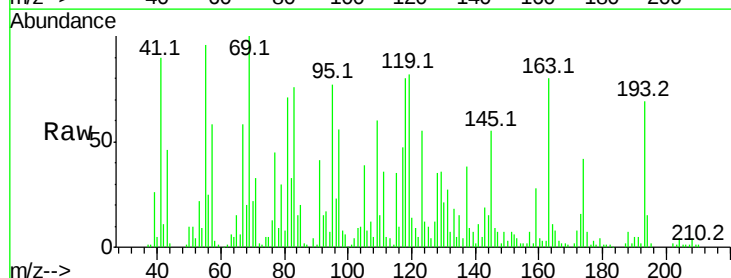
RT: 9.56 min Scan# 654

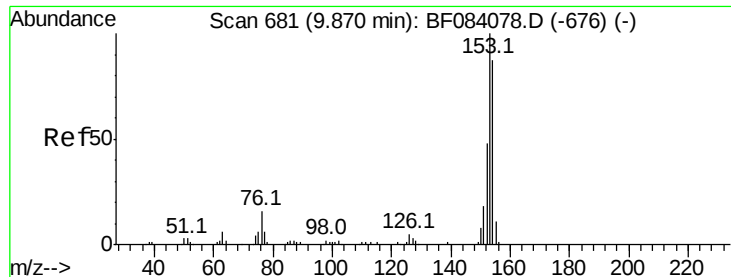
Delta R.T. -0.01 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Tgt Ion:	163	Resp:	85953
Ion Ratio	Lower	Upper	
163	100		
194	18.5	8.0	12.0#
164	13.3	8.0	12.0#





#51

Acenaphthene

Concen: 13.20 ng

RT: 9.88 min Scan# 682

Delta R.T. 0.01 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Instrument :

BNA_F

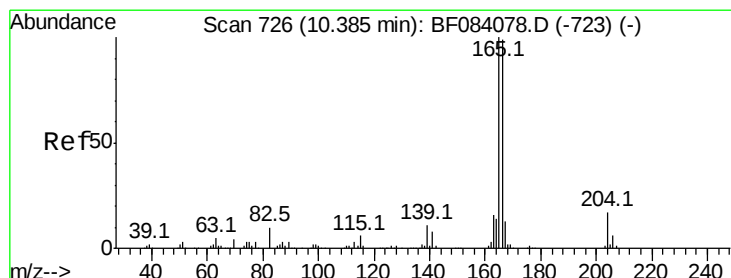
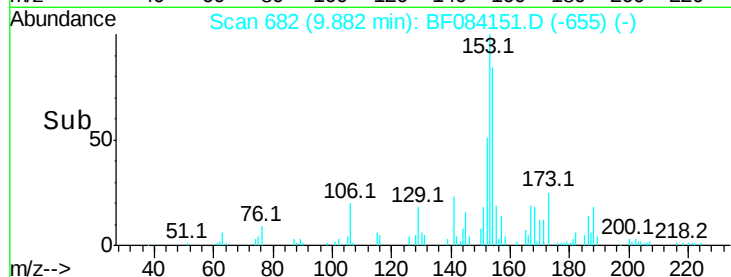
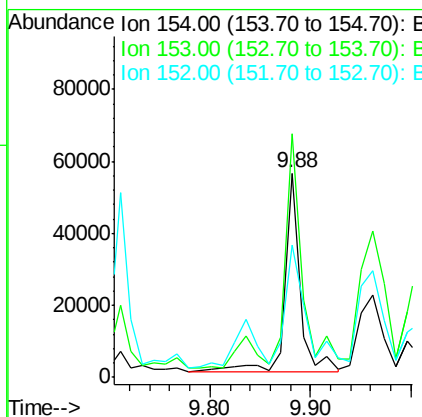
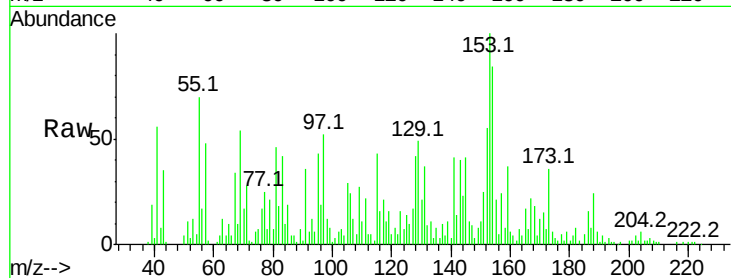
ClientSampleId :

1SP-1(0-2)8E

Tot Ion	Ratio	Lower	Upper
154	100		
153	119.0	91.5	137.3
152	64.9	43.0	64.6

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#57

Fluorene

Concen: 17.95 ng

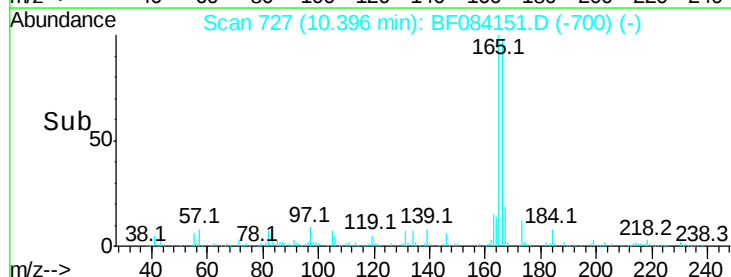
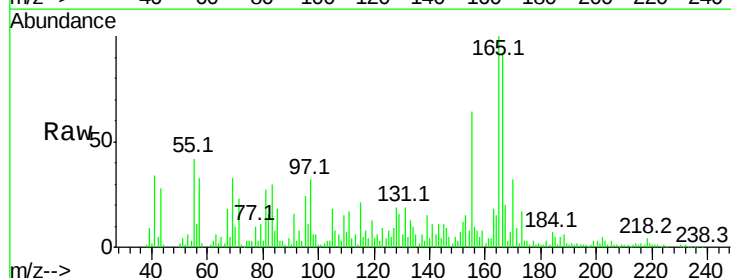
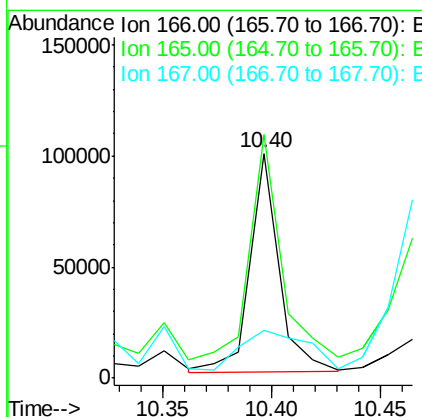
RT: 10.40 min Scan# 727

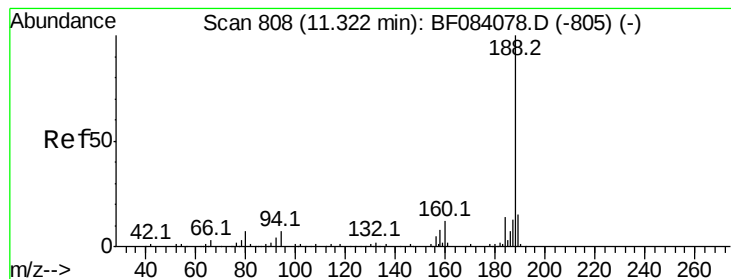
Delta R.T. 0.01 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Tgt Ion	Ratio	Lower	Upper
166	100		
165	108.5	79.1	118.7
167	21.3	10.4	15.6





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.33 min Scan# 809

Delta R.T. 0.01 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Instrument :

BNA_F

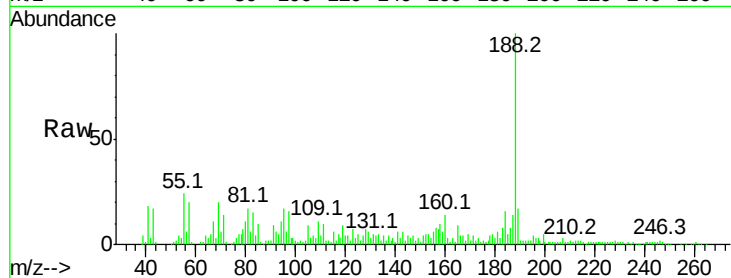
ClientSampleId :

1SP-1(0-2)8E

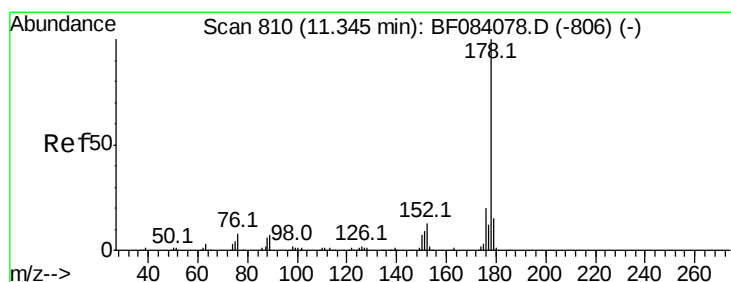
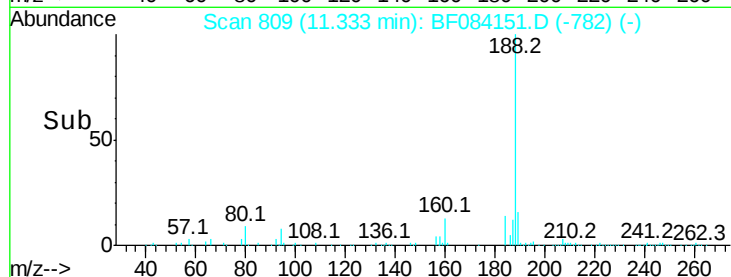
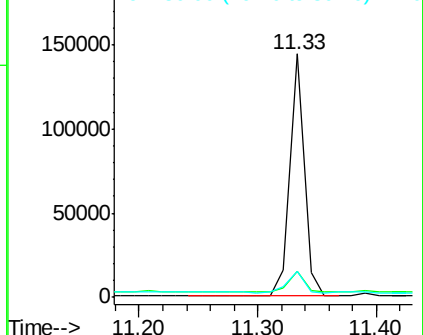
Tot Ion:	188	Resp:	120514
Ion Ratio	Lower	Upper	
188	100		
94	10.8	9.0	13.4
80	10.9	9.6	14.4

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Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 34.70 ng

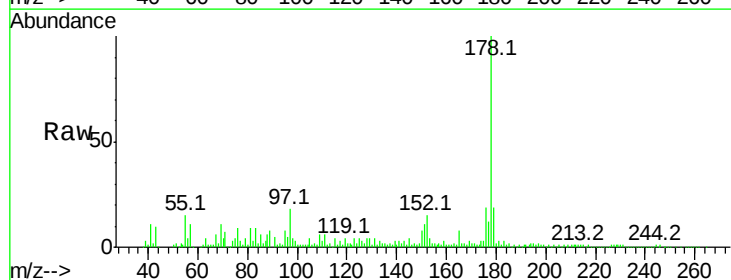
RT: 11.36 min Scan# 811

Delta R.T. 0.01 min

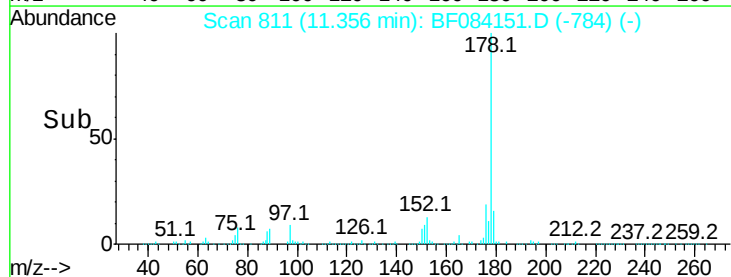
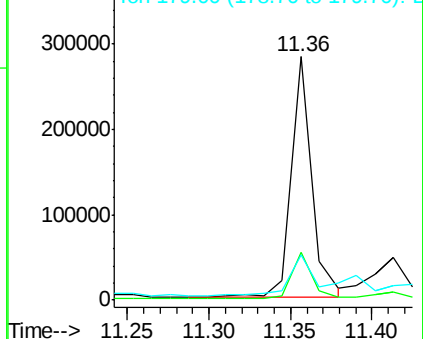
Lab File: BF084151.D

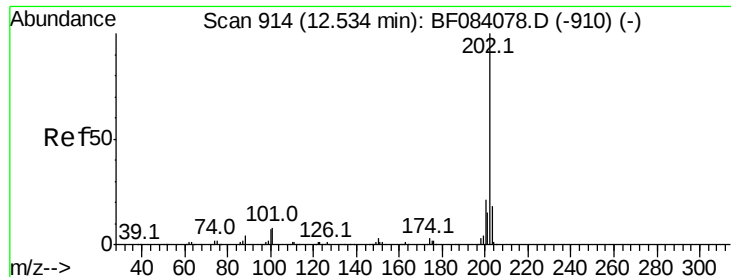
Acq: 26 Dec 2015 1:53

Tgt Ion:	178	Resp:	247919
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.3	22.9
179	18.7	12.0	18.0#



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 24.85 ng

RT: 12.54 min Scan# 915

Delta R.T. 0.01 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Instrument :

BNA_F

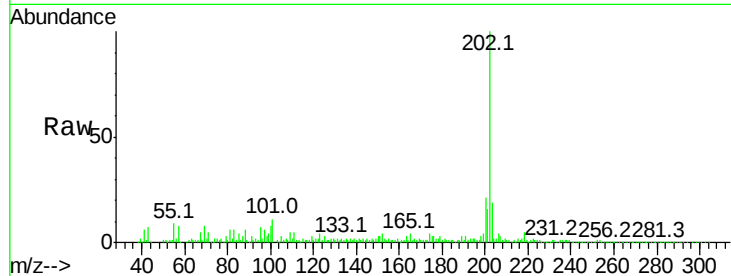
ClientSampleId :

1SP-1(0-2)8E

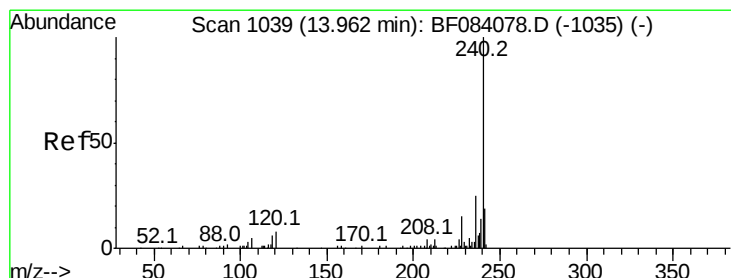
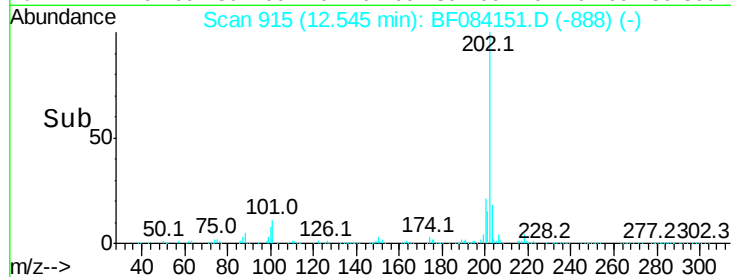
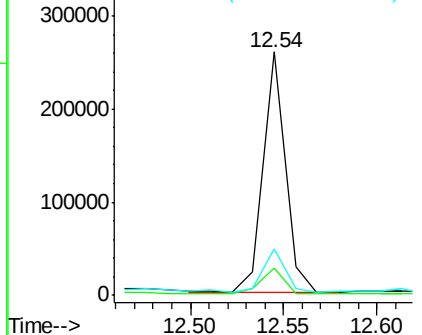
Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		210597		
101	11.3	0.0	32.8		
203	18.9	0.0	37.9		

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

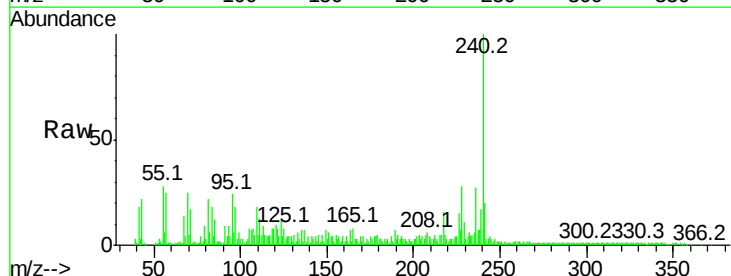
RT: 13.97 min Scan# 1040

Delta R.T. 0.01 min

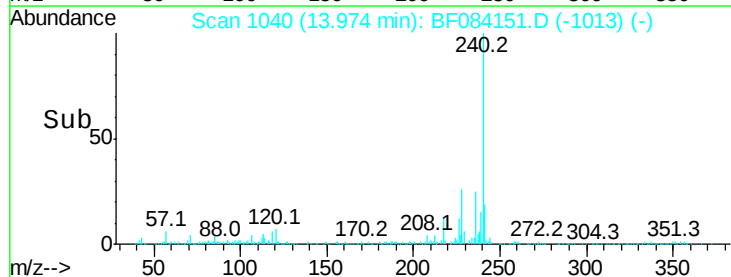
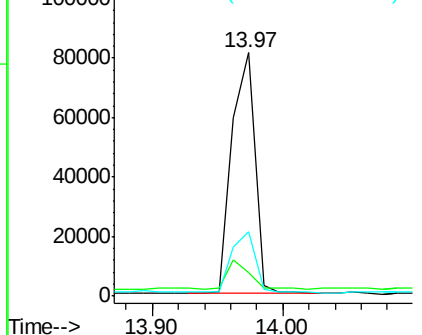
Lab File: BF084151.D

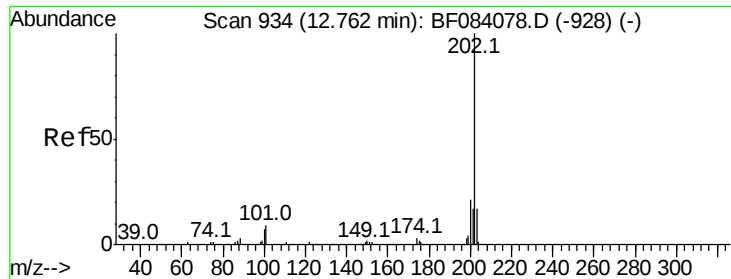
Acq: 26 Dec 2015 1:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		99350		
120	9.8	9.5	14.3		
236	26.6	20.6	31.0		



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 29.08 ng

RT: 12.77 min Scan# 935

Delta R.T. 0.01 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Instrument :

BNA_F

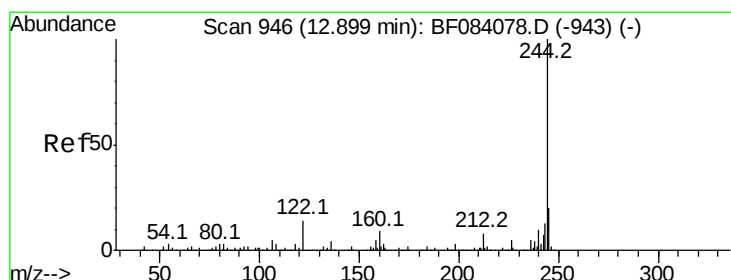
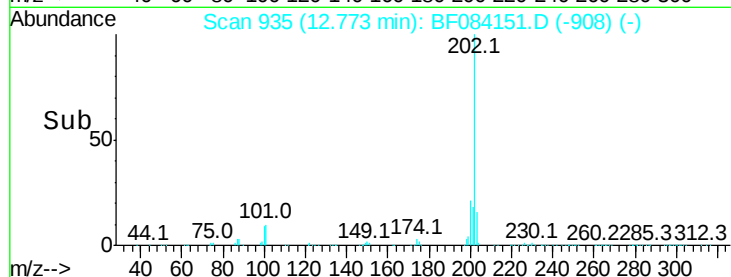
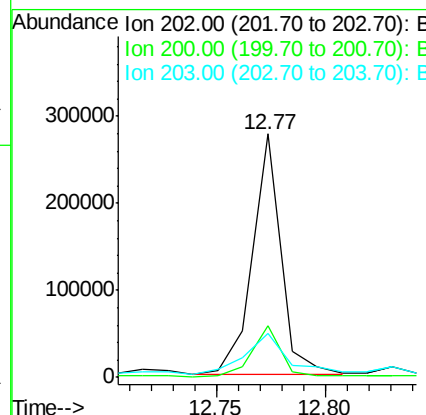
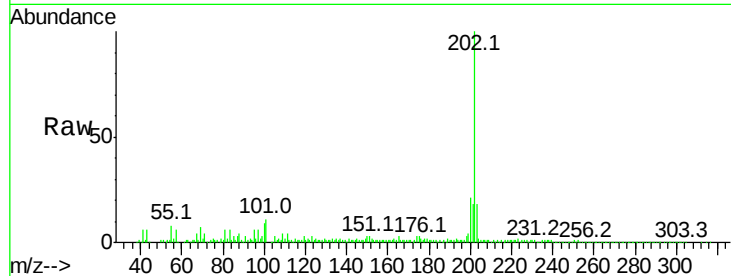
ClientSampleId :

1SP-1(0-2)8E

Tot Ion:	202	Resp:	249222
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.2	25.8
203	18.2	14.3	21.5

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#78

Terphenyl-d14

Concen: 52.62 ng

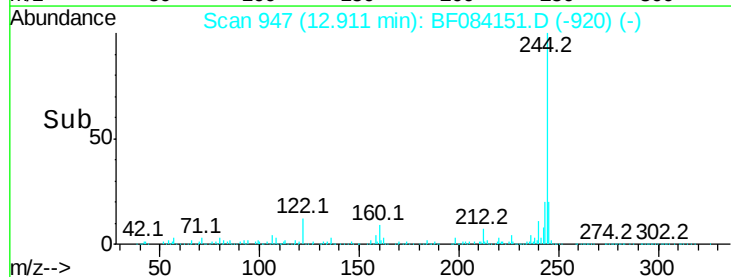
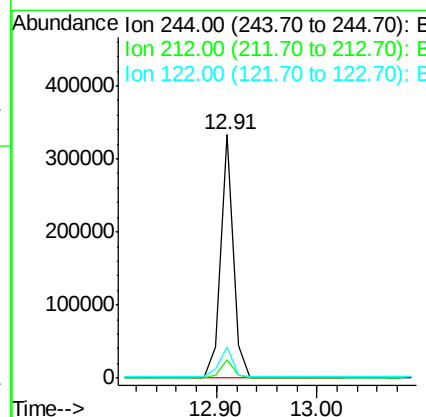
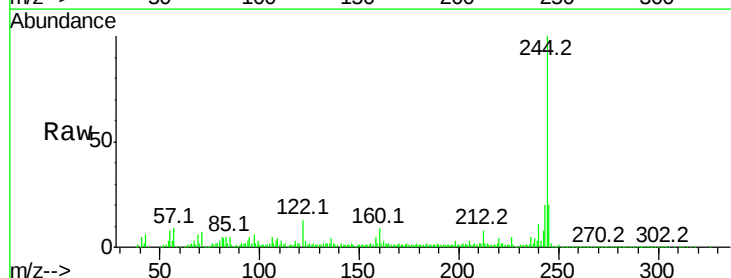
RT: 12.91 min Scan# 947

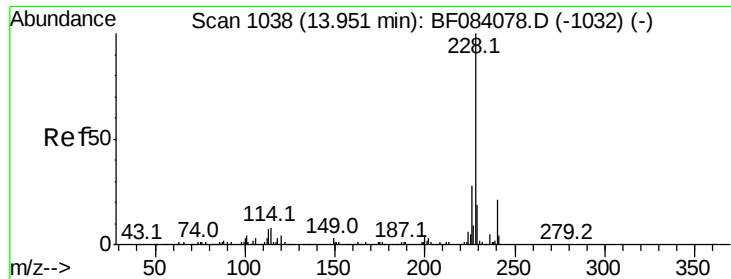
Delta R.T. 0.01 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Tgt Ion:	244	Resp:	288908
Ion Ratio	Lower	Upper	
244	100		
212	7.8	5.7	8.5
122	13.0	7.4	11.0#





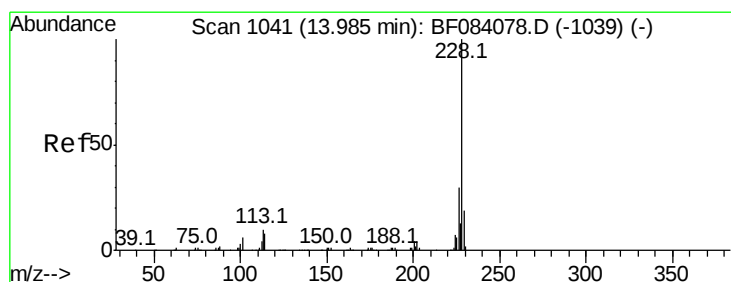
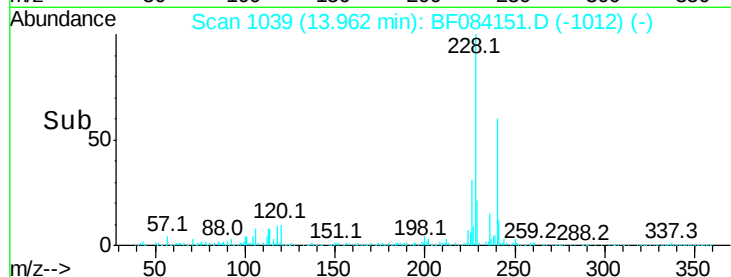
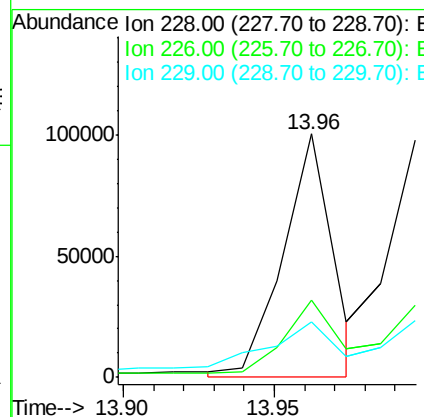
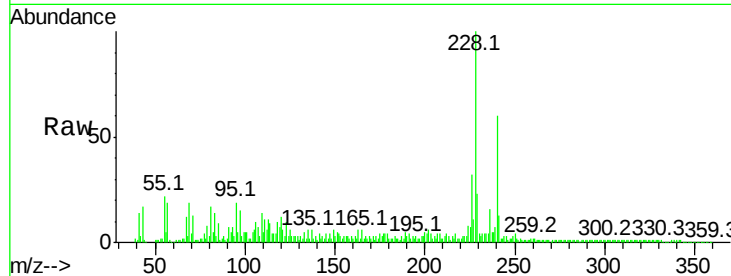
#80
Benzo(a)anthracene
Concen: 18.71 ng m
RT: 13.96 min Scan# 1039
Delta R.T. 0.01 min
Lab File: BF084151.D
Acq: 26 Dec 2015 1:53

Instrument :
BNA_F
ClientSampleId :
1SP-1(0-2)8E

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.9	21.8	32.6
229	23.0	15.8	23.8

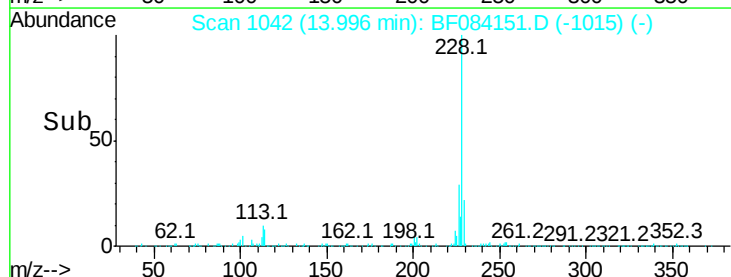
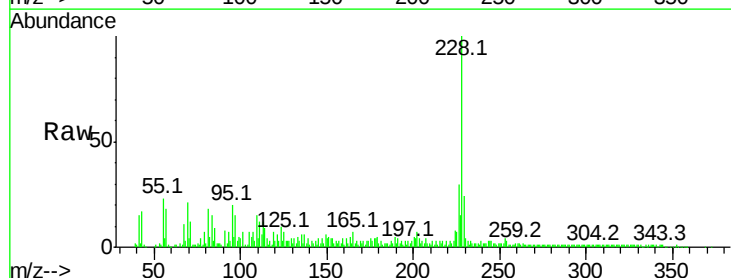
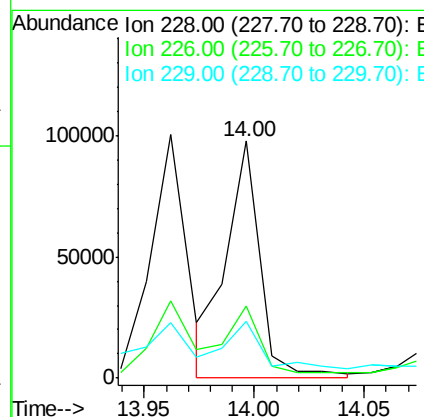
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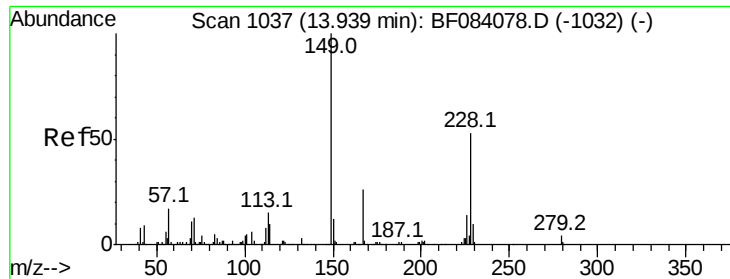
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#82
Chrysene
Concen: 18.66 ng m
RT: 14.00 min Scan# 1042
Delta R.T. 0.01 min
Lab File: BF084151.D
Acq: 26 Dec 2015 1:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.3	36.5
229	23.9	16.1	24.1





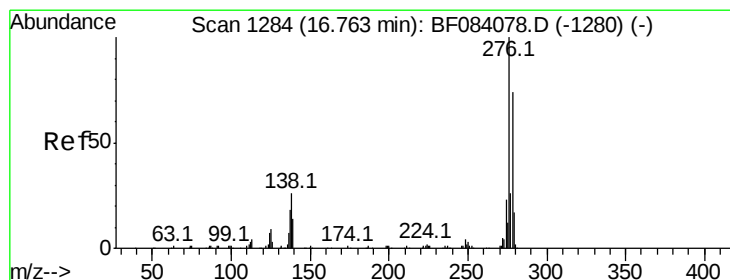
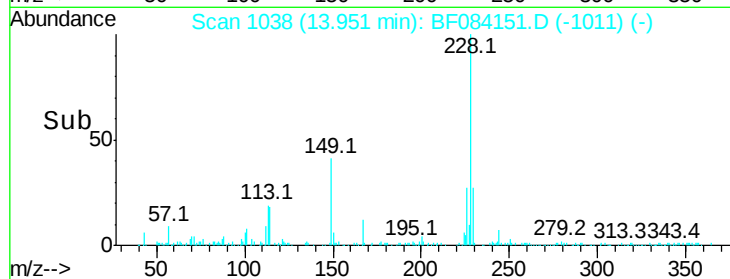
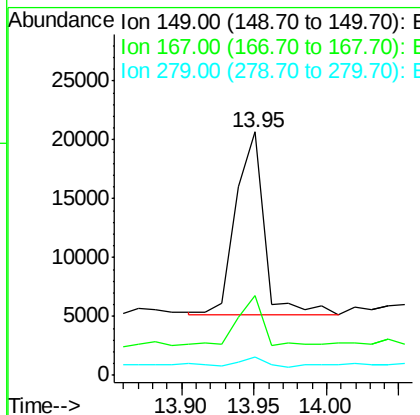
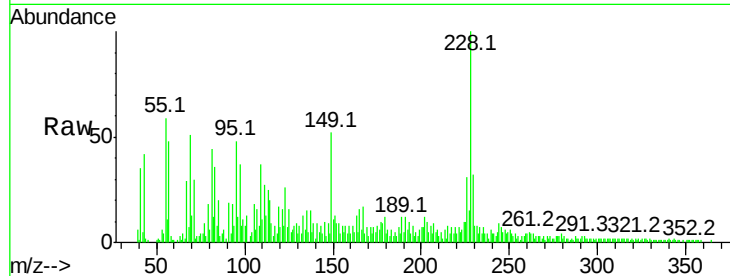
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 4.52 ng
 RT: 13.95 min Scan# 1038
 Delta R.T. 0.01 min
 Lab File: BF084151.D
 Acq: 26 Dec 2015 1:53

Instrument :
 BNA_F
 ClientSampled :
 1SP-1(0-2)8E

Tot Ion	Ratio	Lower	Upper
149	100		
167	32.9	19.7	29.5#
279	7.3	1.8	2.6#

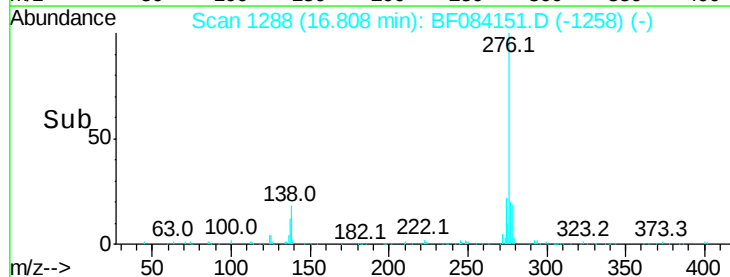
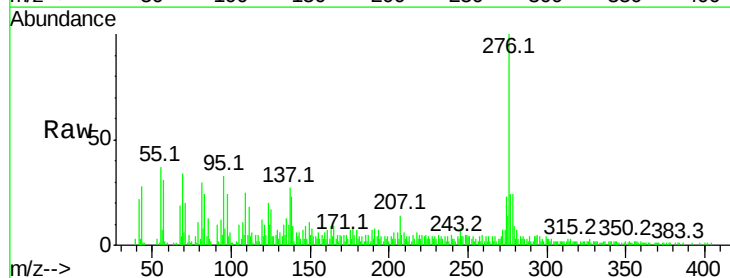
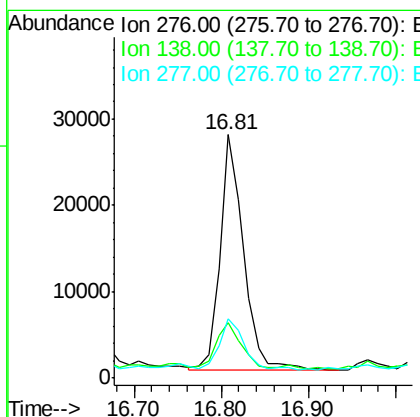
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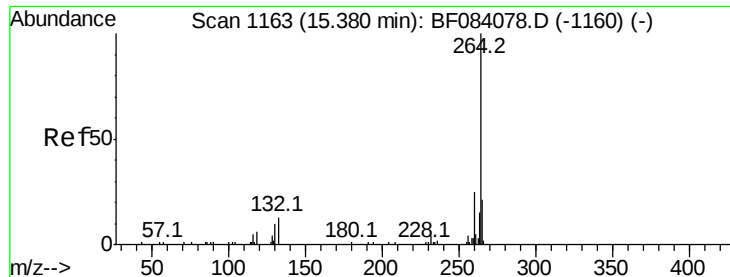
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#85
 Indeno(1,2,3-cd)pyrene
 Concen: 9.16 ng
 RT: 16.81 min Scan# 1288
 Delta R.T. 0.05 min
 Lab File: BF084151.D
 Acq: 26 Dec 2015 1:53

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.1	20.6	30.8#
277	22.7	20.1	30.1





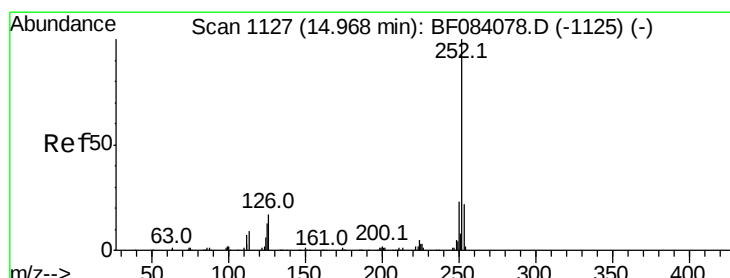
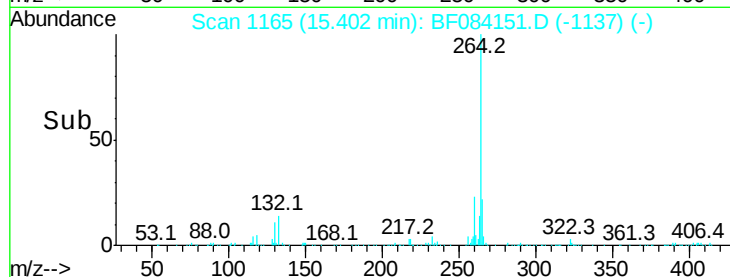
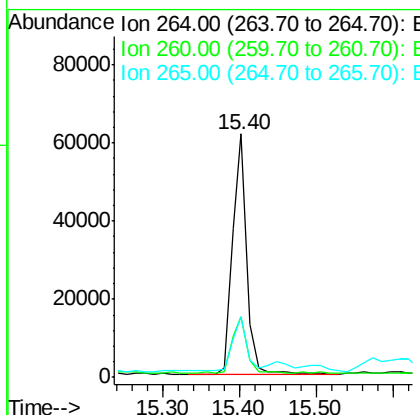
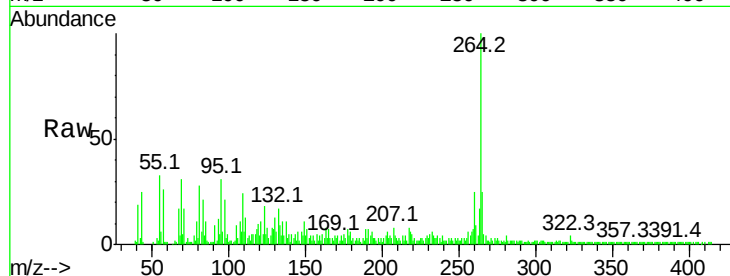
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.40 min Scan# 1165
Delta R.T. 0.02 min
Lab File: BF084151.D
Acq: 26 Dec 2015 1:53

Instrument :
BNA_F
ClientSampleId :
1SP-1(0-2)8E

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.4	29.2
265	25.1	17.8	26.6

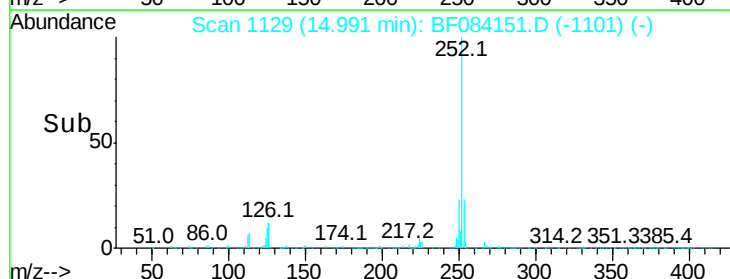
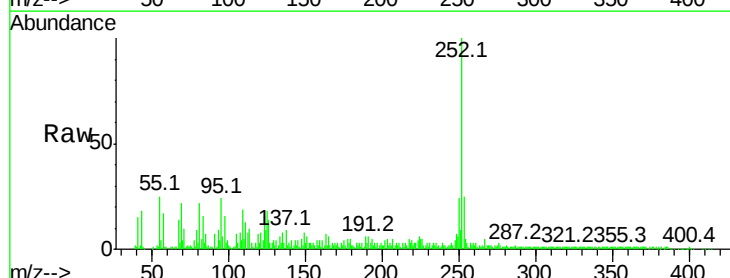
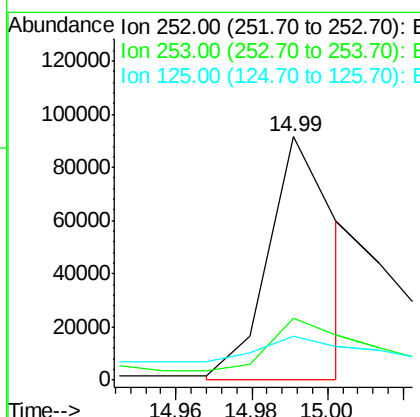
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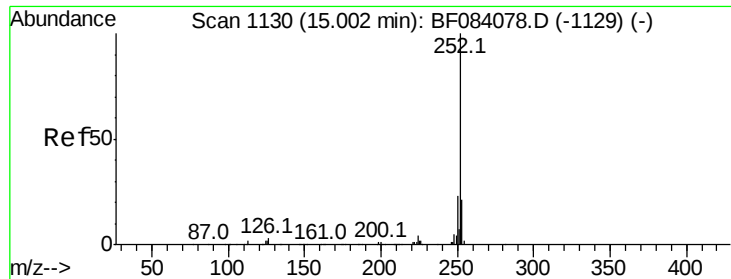
Sohil
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#87
Benzo(b)fluoranthene
Concen: 18.98 ng m
RT: 14.99 min Scan# 1129
Delta R.T. 0.02 min
Lab File: BF084151.D
Acq: 26 Dec 2015 1:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.3	25.9
125	18.0	6.5	9.7#





#88

Benzo(k)fluoranthene

Concen: 12.60 ng m

RT: 15.00 min Scan# 1130

Delta R.T. 0.00 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Instrument :

BNA_F

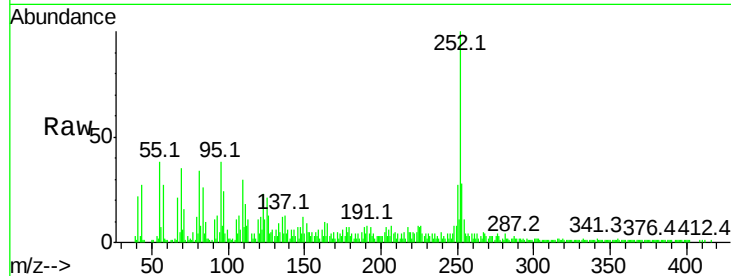
ClientSampleId :

1SP-1(0-2)8E

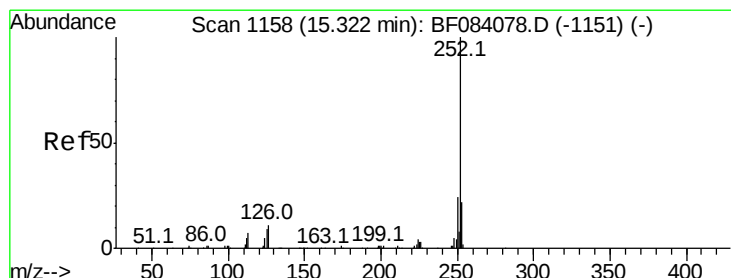
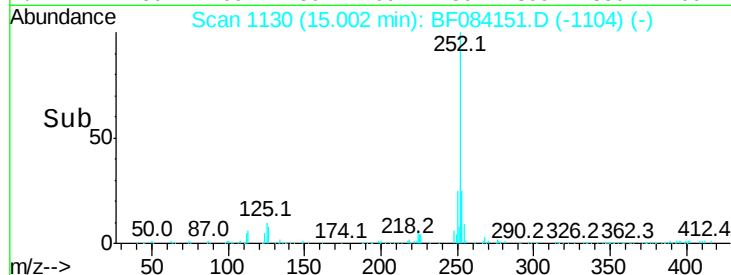
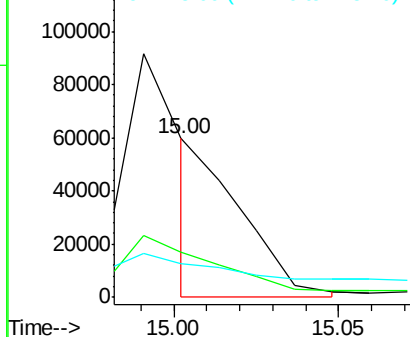
Tot Ion:	252	Resp:	51722
Ion Ratio	Lower	Upper	
252	100		
253	28.1	18.1	27.1#
125	21.1	9.0	13.6#

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 16.13 ng

RT: 15.35 min Scan# 1160

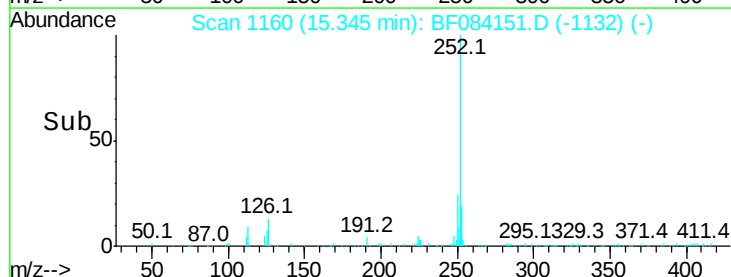
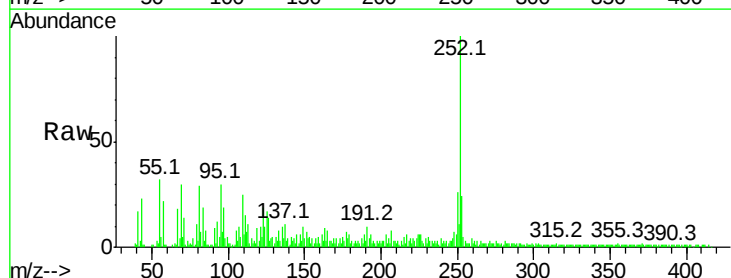
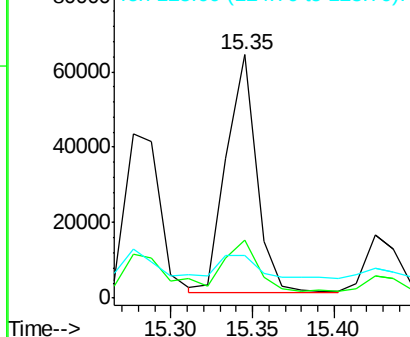
Delta R.T. 0.02 min

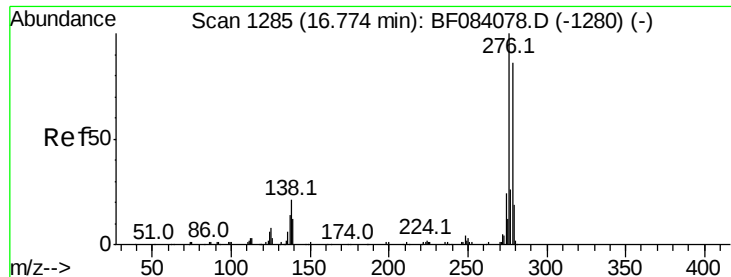
Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Tgt Ion:	252	Resp:	80484
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.3	25.9
125	17.3	7.0	10.4#

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 2.59 ng

RT: 16.81 min Scan# 1288

Delta R.T. 0.03 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Instrument :

BNA_F

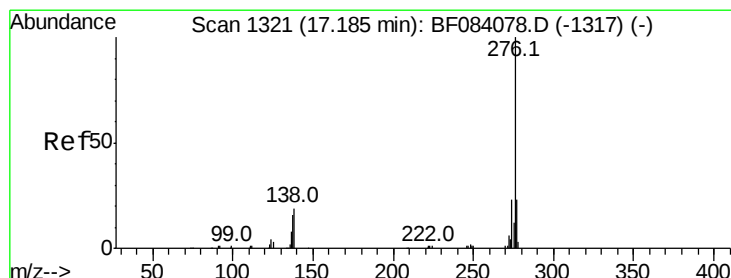
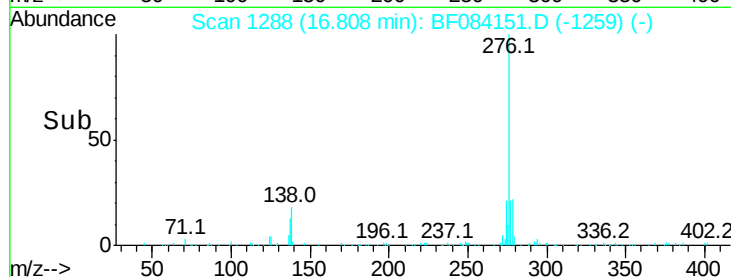
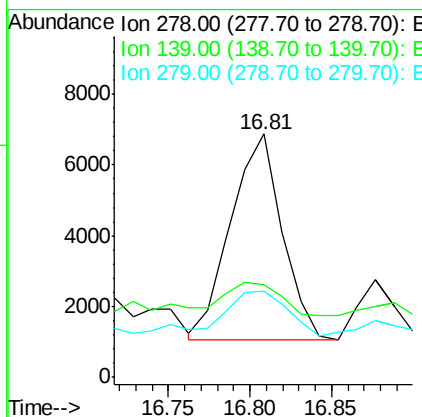
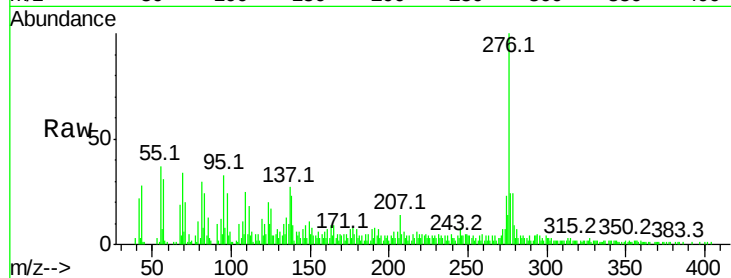
ClientSampleId :

1SP-1(0-2)8E

Tot Ion:	278	Resp:	12630
Ion Ratio	Lower	Upper	
278	100		
139	37.8	15.0	22.4#
279	35.3	18.9	28.3#

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#91

Benzo(g,h,i)perylene

Concen: 10.07 ng

RT: 17.23 min Scan# 1325

Delta R.T. 0.05 min

Lab File: BF084151.D

Acq: 26 Dec 2015 1:53

Tgt Ion:	276	Resp:	50042
Ion Ratio	Lower	Upper	
276	100		
277	27.2	18.8	28.2
138	24.7	17.8	26.6

