

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF091417\
 Data File : BF098546.D
 Acq On : 14 Sep 2017 23:46
 Operator : SJ/JU
 Sample : I5161-15
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RL-12-13-26

Quant Time: Sep 15 05:03:52 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 02:14:50 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.65	152	137415	20.00	ng	-0.02
21) Naphthalene-d8	7.93	136	554917	20.00	ng	-0.02
38) Acenaphthene-d10	9.68	164	231668	20.00	ng	-0.02
63) Phenanthrene-d10	11.16	188	342463	20.00	ng	-0.02
75) Chrysene-d12	13.79	240	265432	20.00	ng	-0.02
86) Perylene-d12	15.19	264	298800	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.26	112	989636	106.48	ng	-0.02
7) Phenol-d6	6.30	99	1191053	100.93	ng	-0.02
23) Nitrobenzene-d5	7.22	82	679730	68.29	ng	-0.02
41) 2,4,6-Tribromophenol	10.47	330	155795	100.76	ng	-0.02
44) 2-Fluorobiphenyl	9.01	172	894405	65.44	ng	-0.02
78) Terphenyl-d14	12.74	244	502287	40.85	ng	-0.02

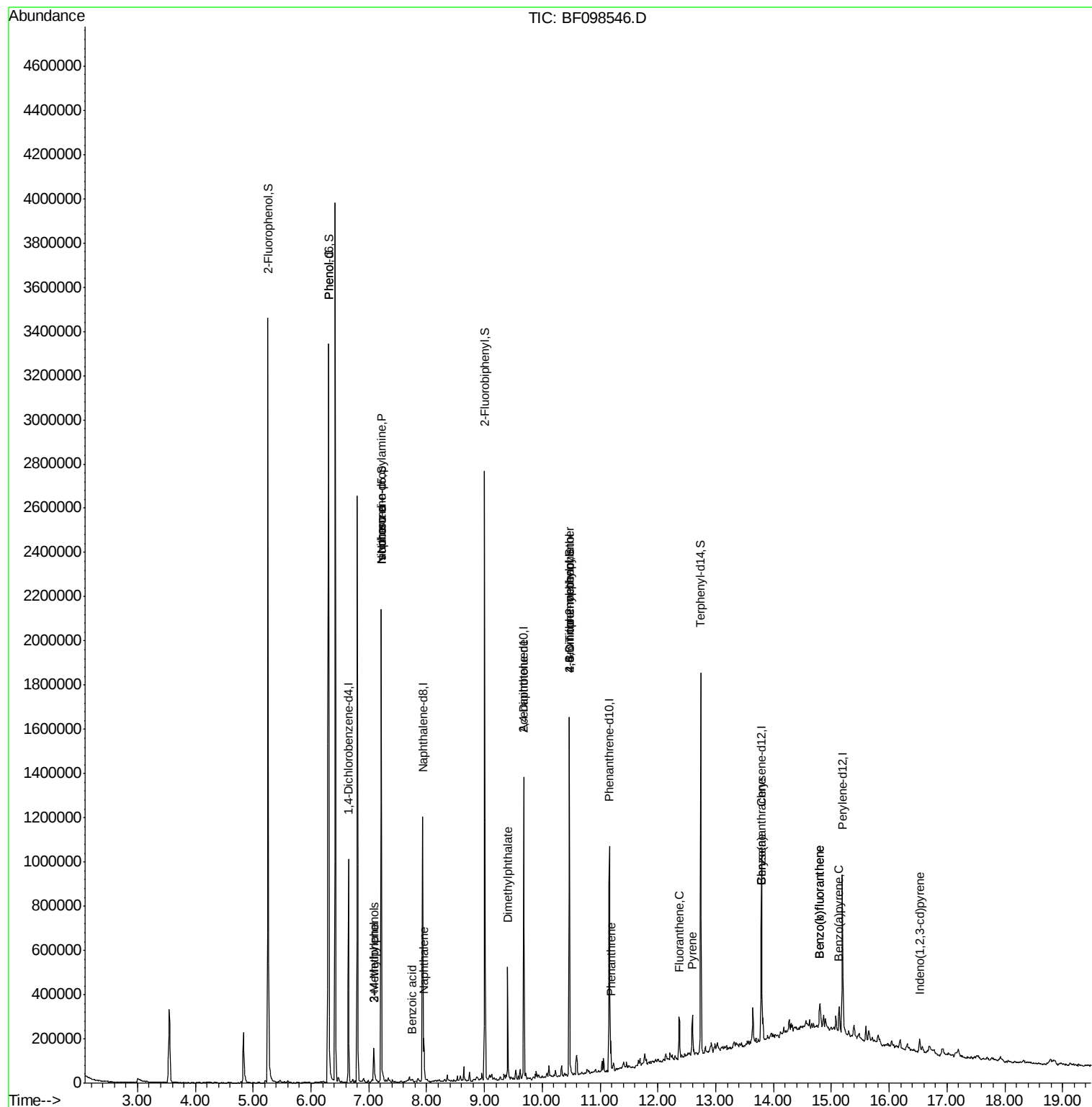
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.31	94	33013	2.409	ng	# 45
17) 2-Methylphenol	7.09	107	64512	7.741	ng	# 69
19) n-Nitroso-di-n-propylamine	7.22	70	91605	12.341	ng	# 79
20) 3+4-Methylphenols	7.09	107	65371	6.216	ng	# 57
25) Isophorone	7.22	82	667900	33.165	ng	# 67
31) Naphthalene	7.95	128	69913	2.549	ng	96
32) Benzoic acid	7.75	122	1794	8.225	ng	# 59
49) Dimethylphthalate	9.40	163	166458	9.282	ng	98
56) 2,4-Dinitrotoluene	9.68	165	30795	6.876	ng	# 34
64) 4,6-Dinitro-2-methylphenol	10.47	198	480	5.169	ng	# 1
66) 4-Bromophenyl-phenylether	10.47	248	11761	3.618	ng	# 1
70) Phenanthrene	11.19	178	49412	2.722	ng	98
74) Fluoranthene	12.37	202	70796	3.895	ng	99
77) Pyrene	12.60	202	67637	3.230	ng	99
80) Benzo(a)anthracene	13.78	228	41163	2.645	ng	99
82) Chrysene	13.78	228	41163	2.617	ng	95
85) Indeno(1,2,3-cd)pyrene	16.53	276	23006	2.085	ng	93
87) Benzo(b)fluoranthene	14.80	252	73728	3.924	ng	# 89
88) Benzo(k)fluoranthene	14.80	252	73728	4.204	ng	# 93
89) Benzo(a)pyrene	15.13	252	43782	2.616	ng	# 92

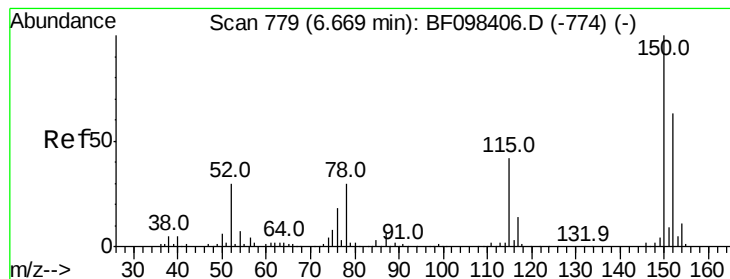
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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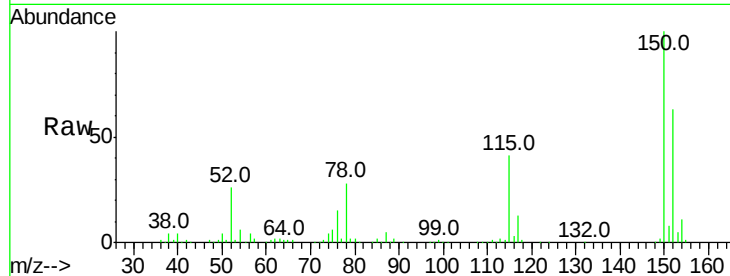


#1

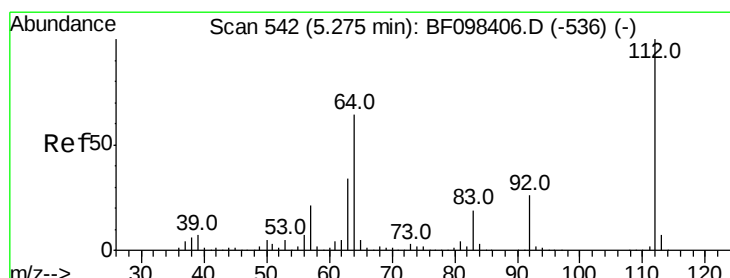
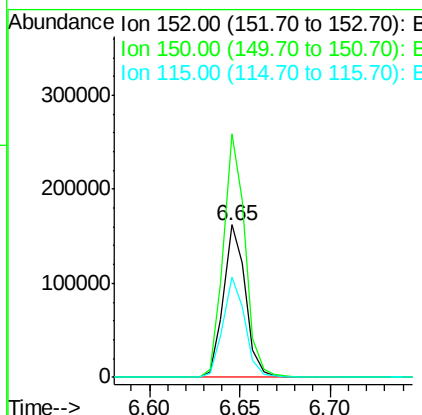
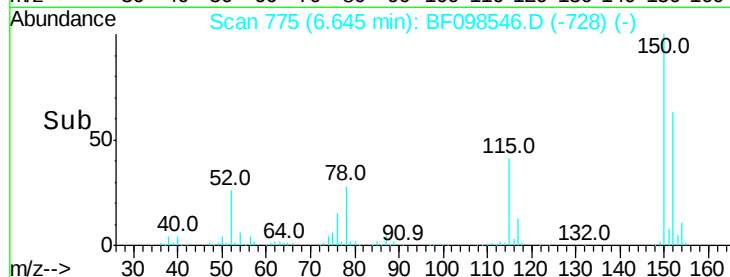
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.65 min Scan# 775
 Delta R.T. -0.02 min
 Lab File: BF098546.D
 Acq: 14 Sep 2017 23:46

Instrument :
 BNA_F
 ClientSampleId :
 RL-12-13-26

Tot Ion:152 Resp: 137415
 Ion Ratio Lower Upper
 152 100
 150 159.9 126.2 189.2
 115 65.7 52.2 78.2



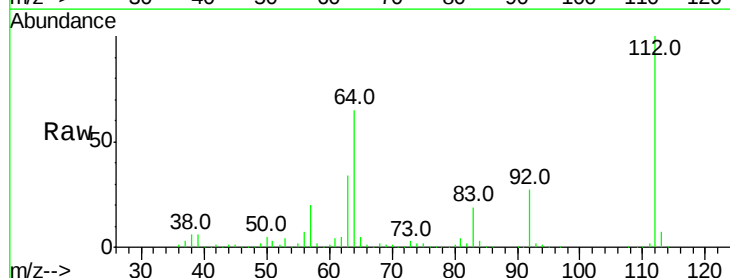
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



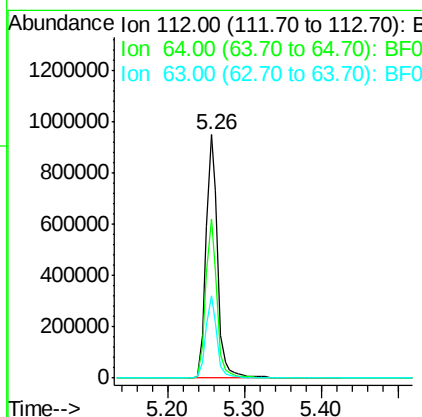
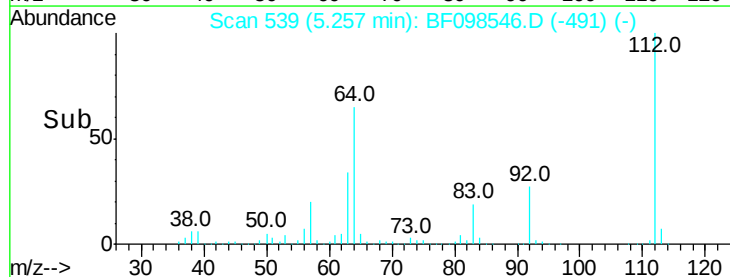
#5

2-Fluorophenol
 Concen: 106.480 ng
 RT: 5.26 min Scan# 539
 Delta R.T. -0.02 min
 Lab File: BF098546.D
 Acq: 14 Sep 2017 23:46

Tgt Ion:112 Resp: 989636
 Ion Ratio Lower Upper
 112 100
 64 65.2 46.0 69.0
 63 33.6 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 100.934 ng

RT: 6.30 min Scan# 717

Delta R.T. -0.02 min

Lab File: BF098546.D

Acq: 14 Sep 2017 23:46

Instrument :

BNA_F

ClientSampleId :

RL-12-13-26

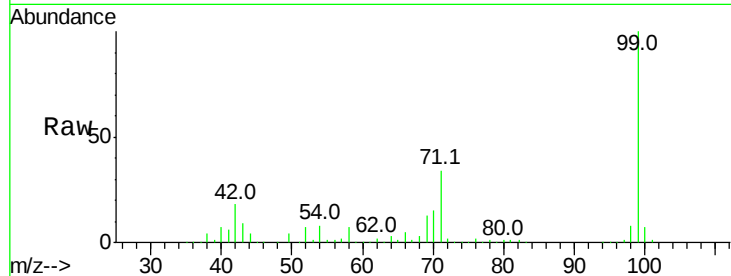
Tot Ion: 99 Resp: 1191053

Ion Ratio Lower Upper

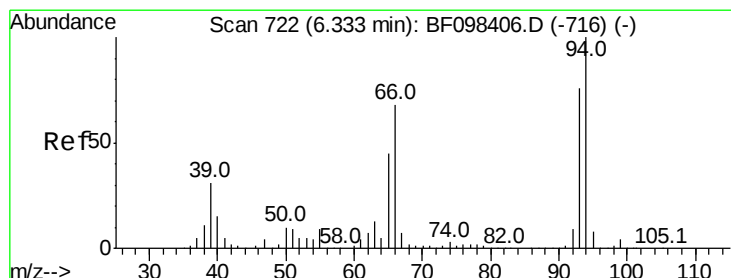
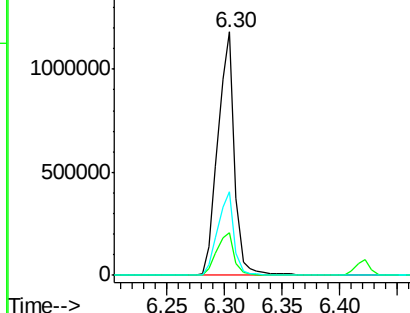
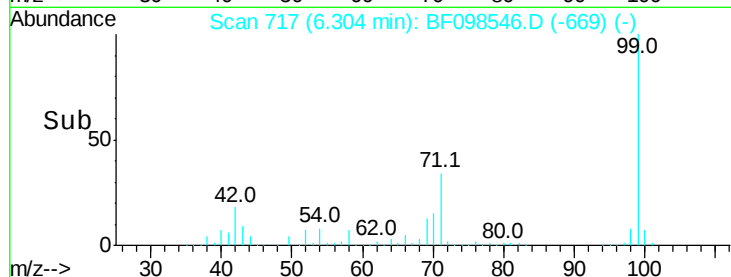
99 100

42 17.8 13.5 20.3

71 34.3 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.409 ng

RT: 6.31 min Scan# 718

Delta R.T. -0.02 min

Lab File: BF098546.D

Acq: 14 Sep 2017 23:46

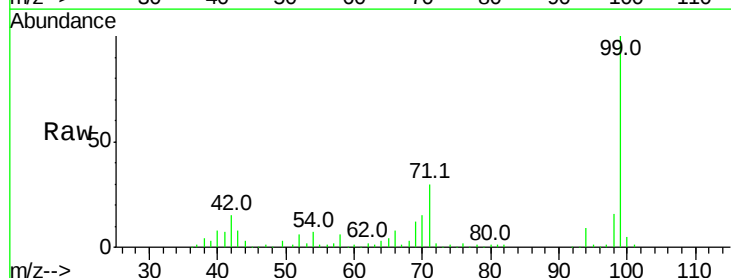
Tgt Ion: 94 Resp: 33013

Ion Ratio Lower Upper

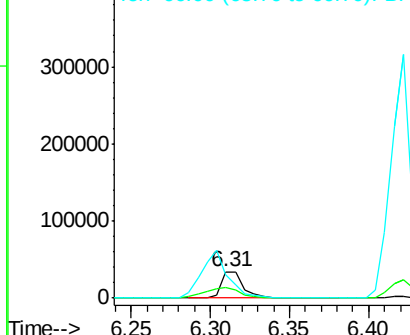
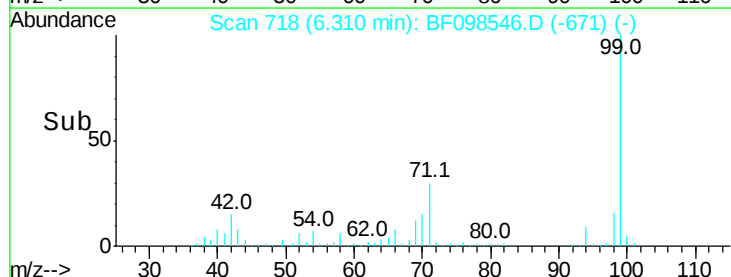
94 100

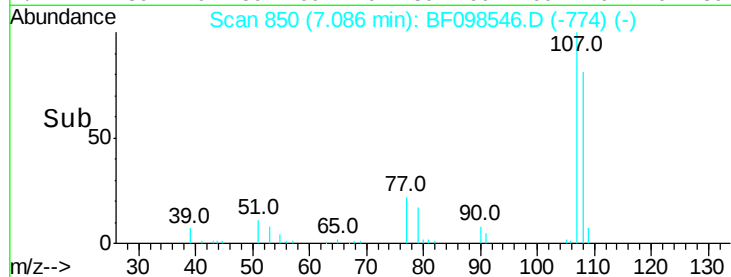
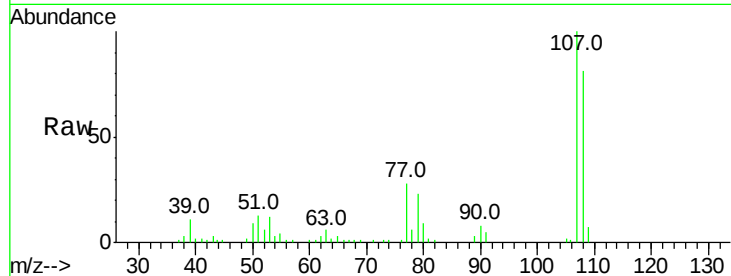
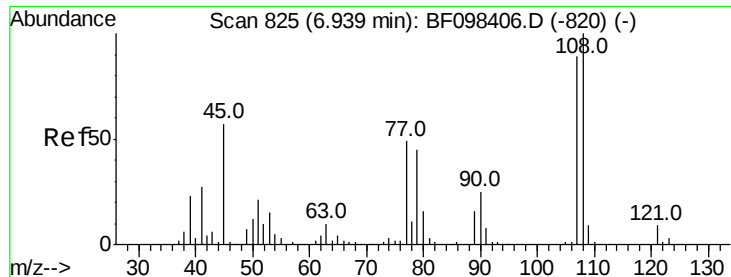
65 42.8 9.9 49.9

66 92.1 23.1 63.1#



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0

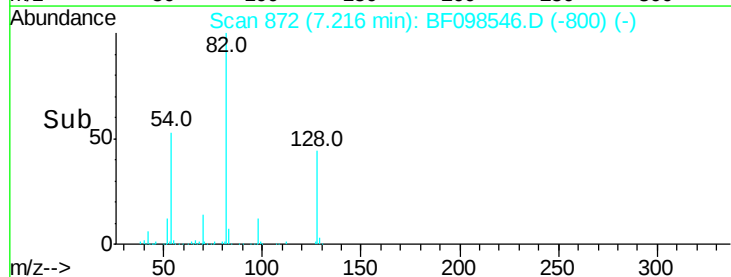
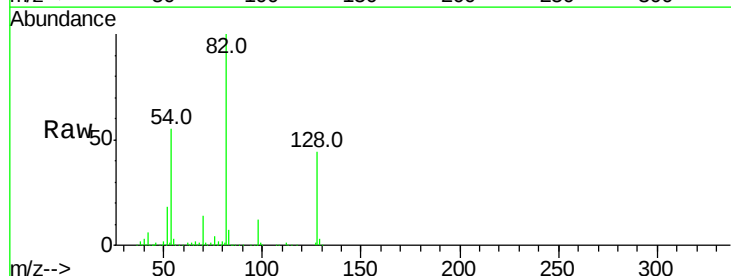
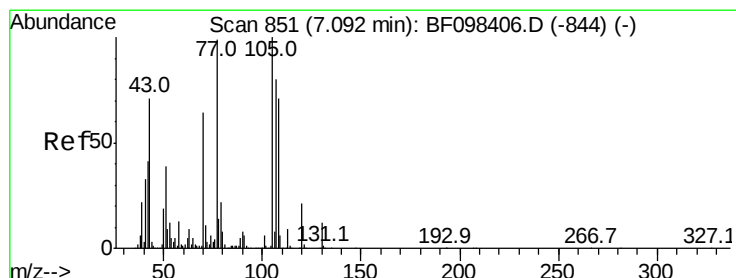
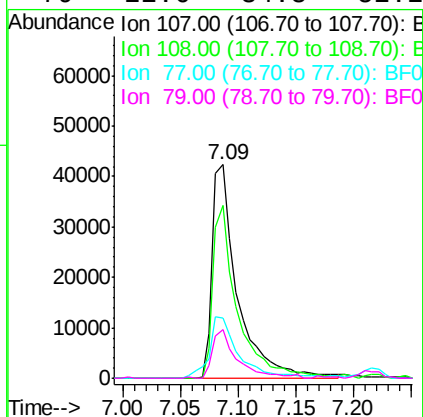




#17
2-Methylphenol
Concen: 7.741 ng
RT: 7.09 min Scan# 850
Delta R.T. 0.15 min
Lab File: BF098546.D
Acq: 14 Sep 2017 23:46

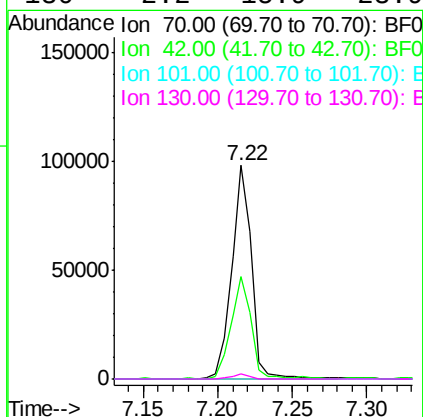
Instrument :
BNA_F
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RL-12-13-26

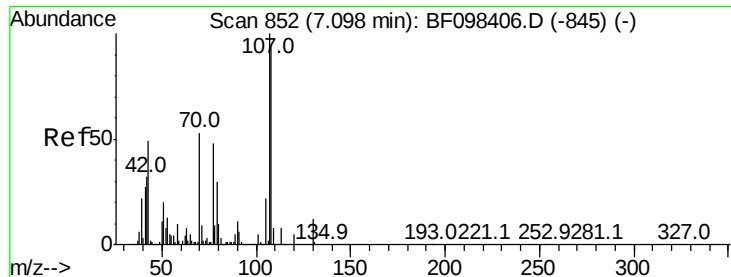
Tot Ion:107 Resp: 64512
Ion Ratio Lower Upper
107 100
108 80.9 93.4 140.0#
77 28.0 35.8 53.6#
79 22.6 34.8 52.2#



#19
n-Nitroso-di-n-propylamine
Concen: 12.341 ng
RT: 7.22 min Scan# 872
Delta R.T. 0.12 min
Lab File: BF098546.D
Acq: 14 Sep 2017 23:46

Tgt Ion: 70 Resp: 91605
Ion Ratio Lower Upper
70 100
42 47.9 47.2 70.8
101 0.0 7.2 10.8#
130 2.2 15.9 23.9#

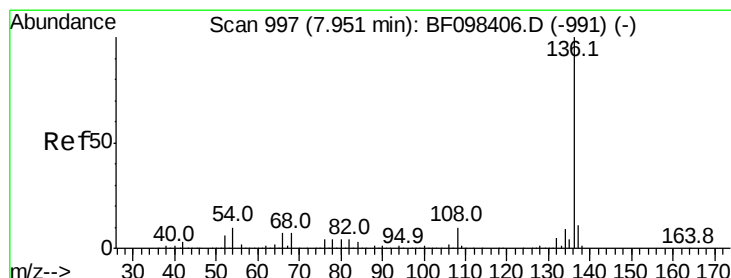
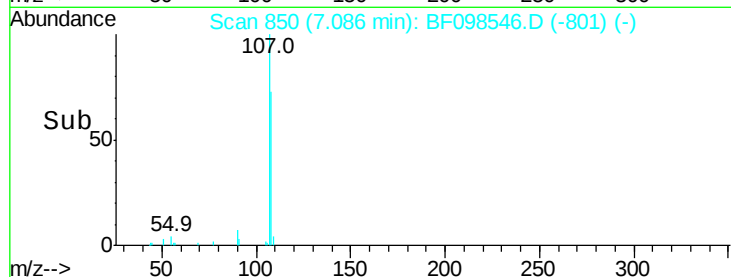
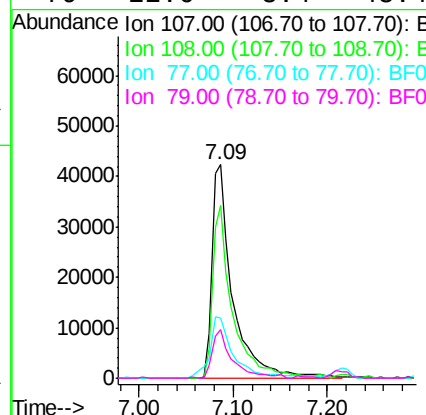
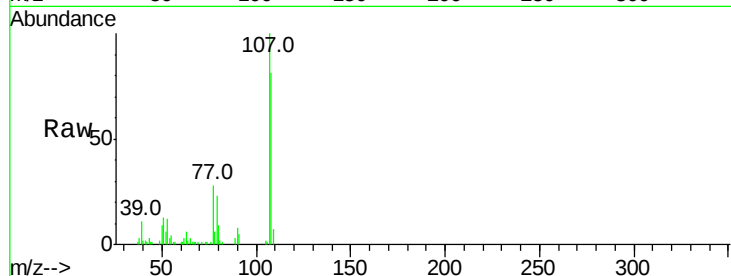




#20
3+4-Methylphenols
Concen: 6.216 ng
RT: 7.09 min Scan# 850
Delta R.T. -0.01 min
Lab File: BF098546.D
Acq: 14 Sep 2017 23:46

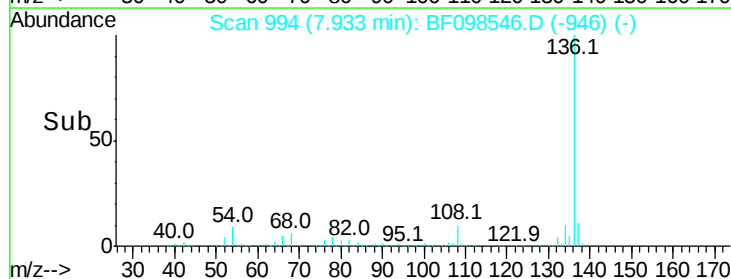
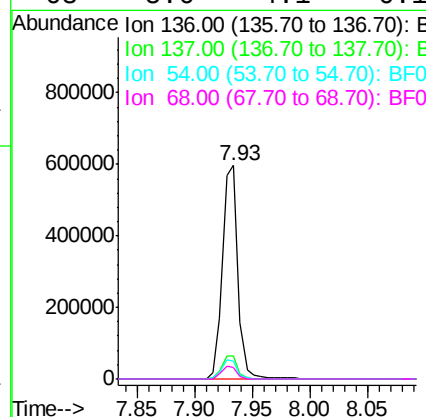
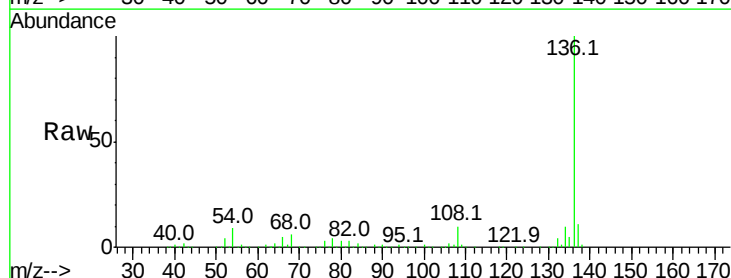
Instrument :
BNA_F
ClientSampleId :
RL-12-13-26

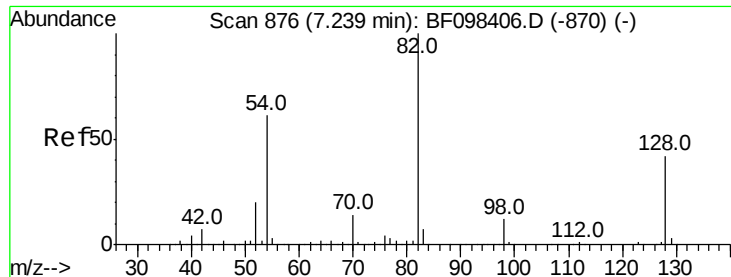
Tot Ion:	107	Resp:	65371
Ion	Ratio	Lower	Upper
107	100		
108	80.9	71.0	111.0
77	28.0	90.5	130.5#
79	22.6	8.4	48.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.93 min Scan# 994
Delta R.T. -0.02 min
Lab File: BF098546.D
Acq: 14 Sep 2017 23:46

Tgt Ion:	136	Resp:	554917
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.5	12.7
54	8.7	4.9	7.3#
68	5.6	4.1	6.1

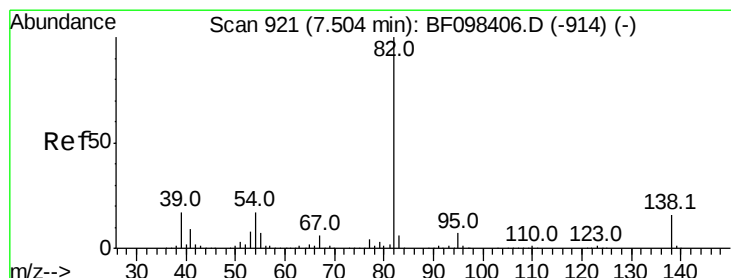
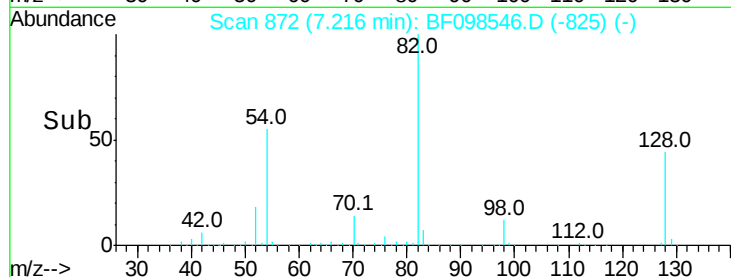
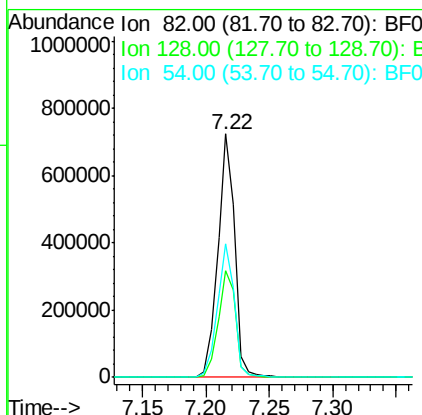
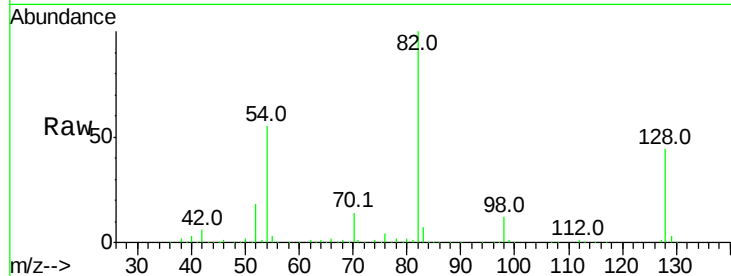




#23
Nitrobenzene-d5
Concen: 68.289 ng
RT: 7.22 min Scan# 872
Delta R.T. -0.02 min
Lab File: BF098546.D
Acq: 14 Sep 2017 23:46

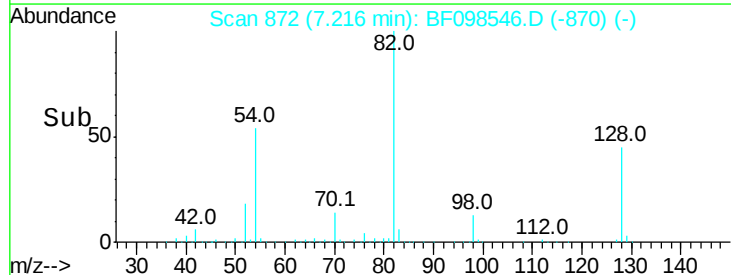
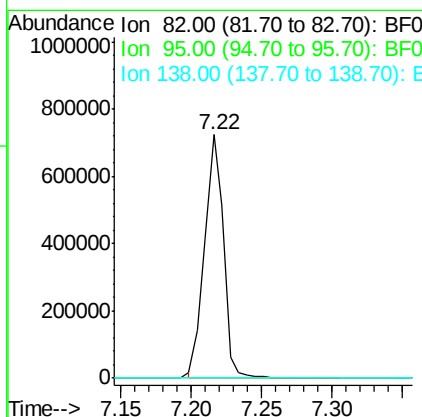
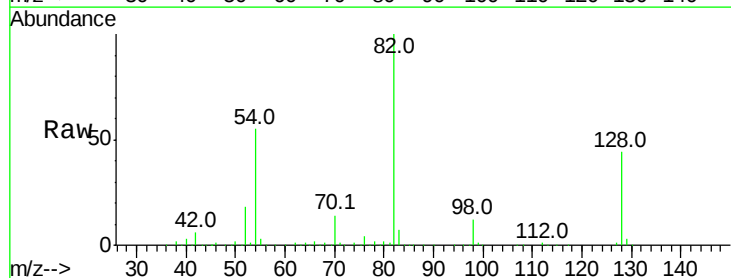
Instrument :
BNA_F
ClientSampleId :
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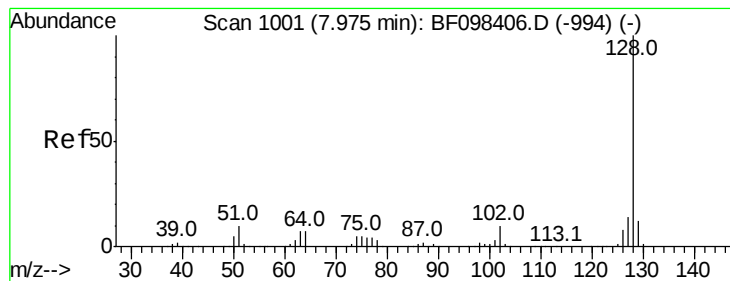
Tot Ion: 82 Resp: 679730
Ion Ratio Lower Upper
82 100
128 43.9 34.0 51.0
54 54.8 42.2 63.2



#25
Isophorone
Concen: 33.165 ng
RT: 7.22 min Scan# 872
Delta R.T. -0.29 min
Lab File: BF098546.D
Acq: 14 Sep 2017 23:46

Tgt Ion: 82 Resp: 667900
Ion Ratio Lower Upper
82 100
95 0.0 5.3 7.9#
138 0.0 13.1 19.7#





#31

Naphthalene

Concen: 2.549 ng

RT: 7.95 min Scan# 997

Delta R.T. -0.02 min

Lab File: BF098546.D

Acq: 14 Sep 2017 23:46

Instrument :

BNA_F

ClientSampled :

RL-12-13-26

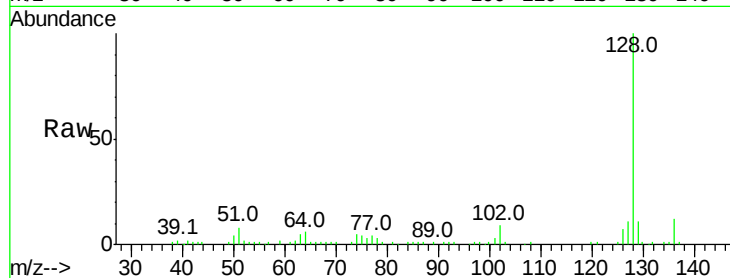
Tot Ion:128 Resp: 69913

Ion Ratio Lower Upper

128 100

129 10.6 9.0 13.6

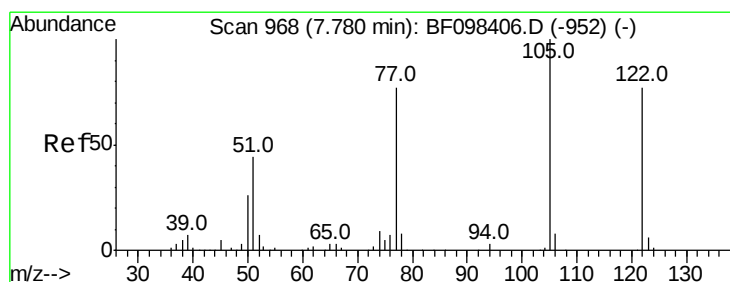
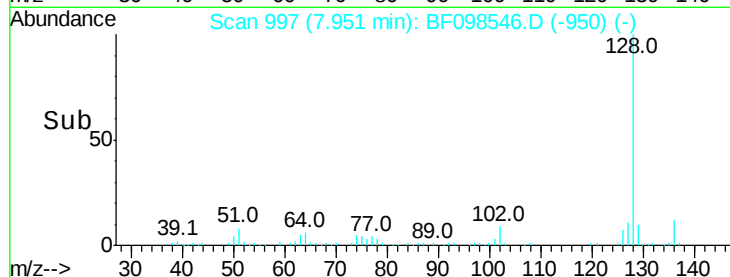
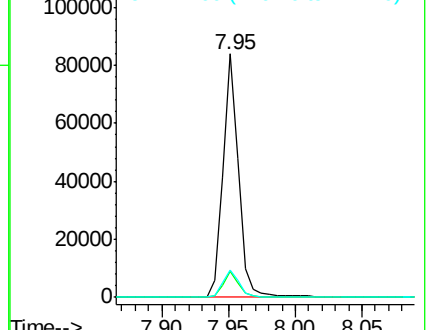
127 11.1 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 8.225 ng

RT: 7.75 min Scan# 963

Delta R.T. -0.03 min

Lab File: BF098546.D

Acq: 14 Sep 2017 23:46

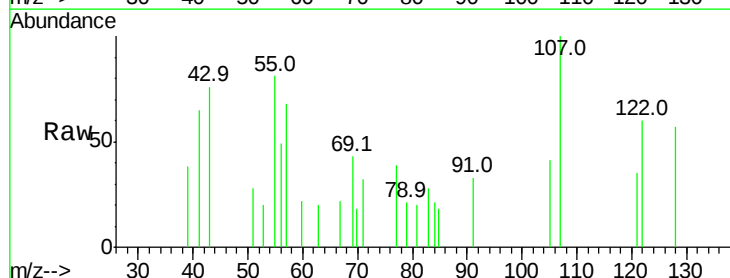
Tgt Ion:122 Resp: 1794

Ion Ratio Lower Upper

122 100

105 68.0 103.3 143.3#

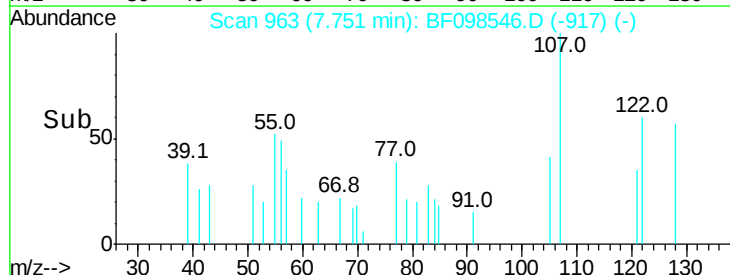
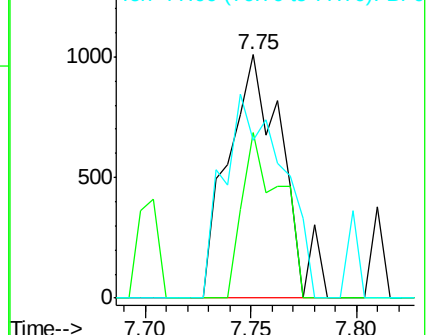
77 65.1 73.7 113.7#

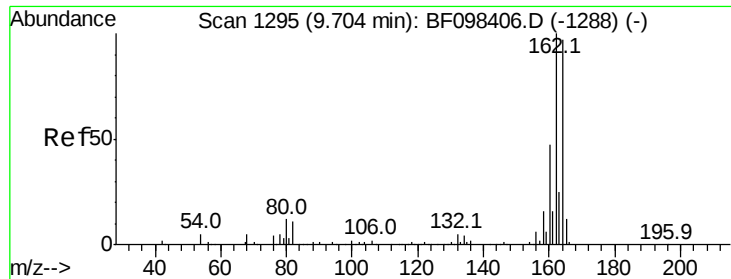


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.68 min Scan# 1291

Delta R.T. -0.02 min

Lab File: BF098546.D

Acq: 14 Sep 2017 23:46

Instrument :

BNA_F

ClientSampleId :

RL-12-13-26

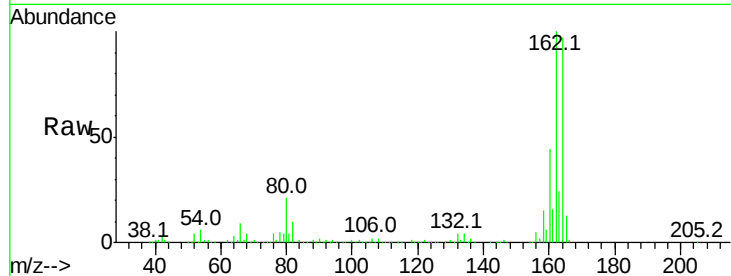
Tot Ion:164 Resp: 231668

Ion Ratio Lower Upper

164 100

162 102.6 82.6 123.8

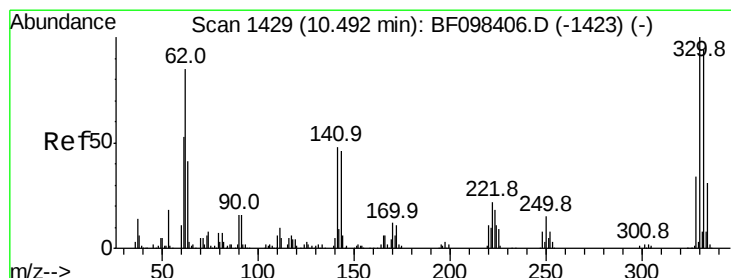
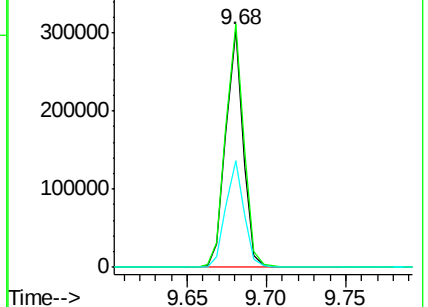
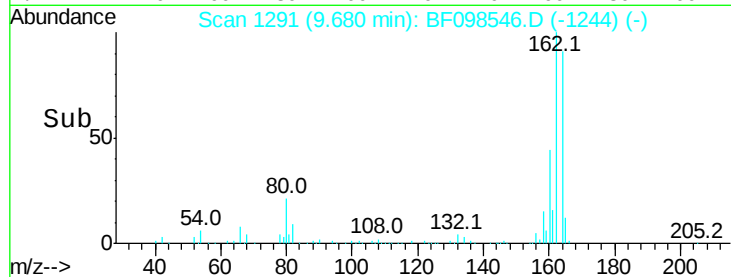
160 45.0 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 100.760 ng

RT: 10.47 min Scan# 1425

Delta R.T. -0.02 min

Lab File: BF098546.D

Acq: 14 Sep 2017 23:46

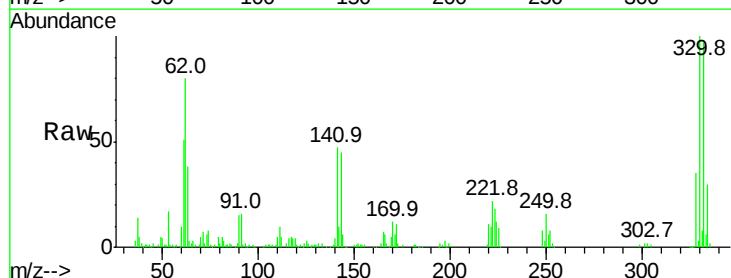
Tgt Ion:330 Resp: 155795

Ion Ratio Lower Upper

330 100

332 97.8 76.6 115.0

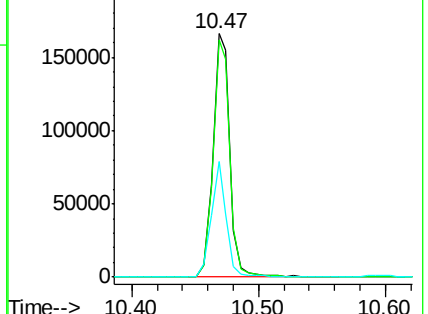
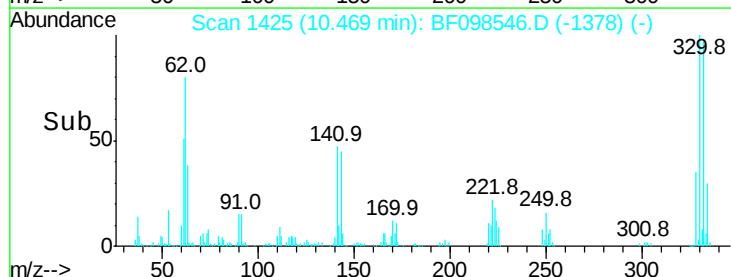
141 43.4 31.4 47.2

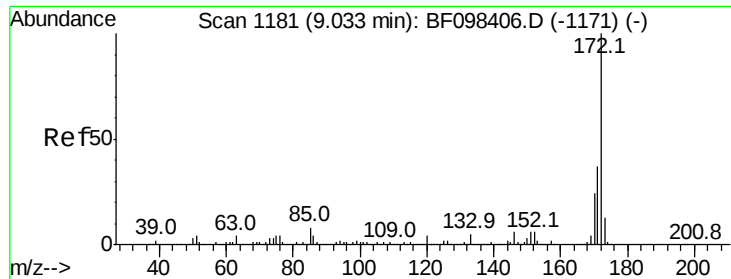


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

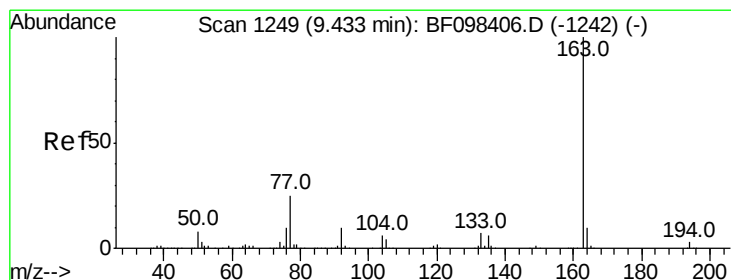
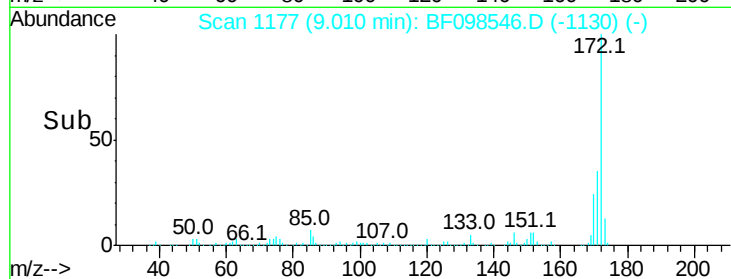
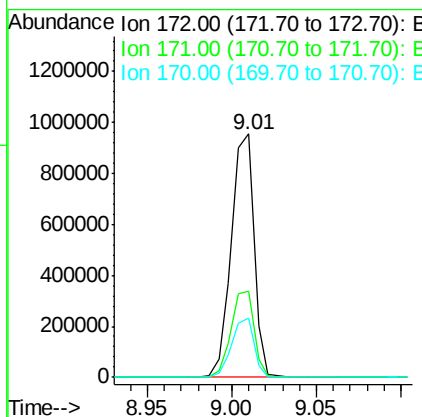
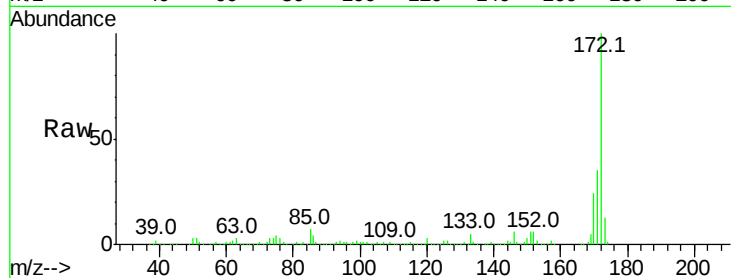




#44
2-Fluorobiphenyl
Concen: 65.436 ng
RT: 9.01 min Scan# 1177
Delta R.T. -0.02 min
Lab File: BF098546.D
Acq: 14 Sep 2017 23:46

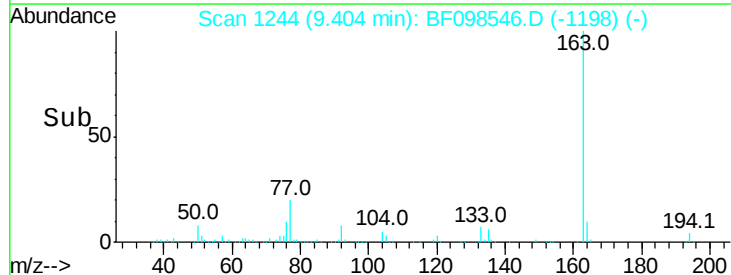
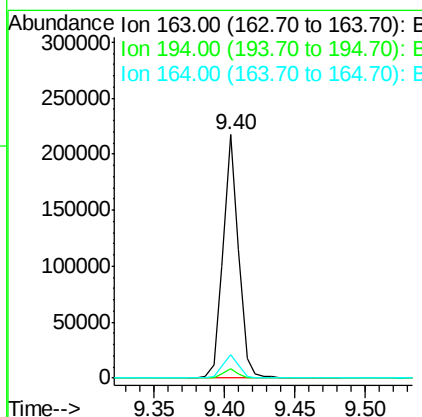
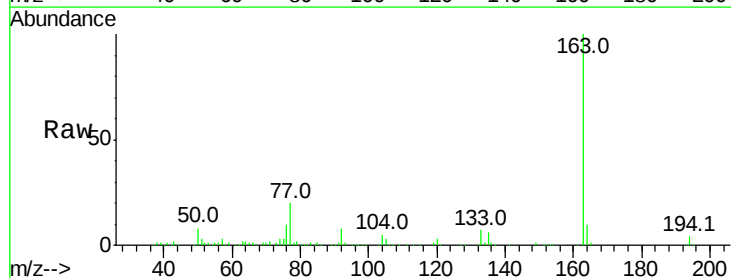
Instrument :
BNA_F
ClientSampleId :
RL-12-13-26

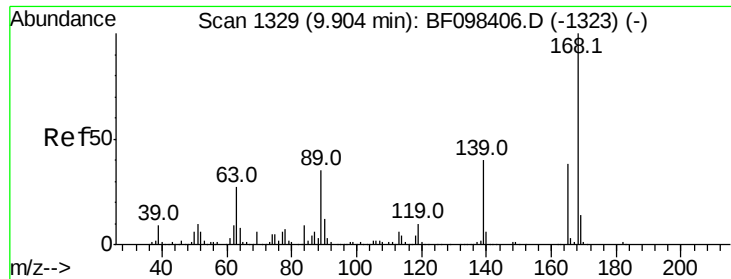
Tot Ion:172 Resp: 894405
Ion Ratio Lower Upper
172 100
171 35.4 29.6 44.4
170 24.1 19.8 29.8



#49
Dimethylphthalate
Concen: 9.282 ng
RT: 9.40 min Scan# 1244
Delta R.T. -0.03 min
Lab File: BF098546.D
Acq: 14 Sep 2017 23:46

Tgt Ion:163 Resp: 166458
Ion Ratio Lower Upper
163 100
194 3.6 2.6 4.0
164 9.7 8.4 12.6

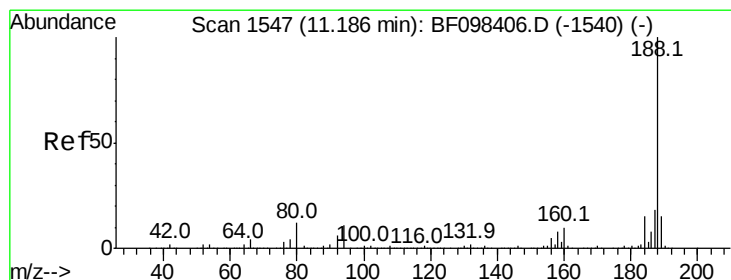
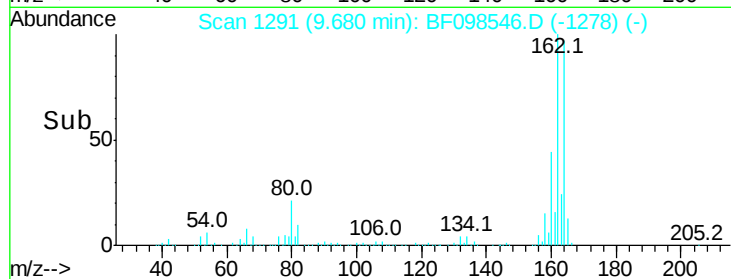
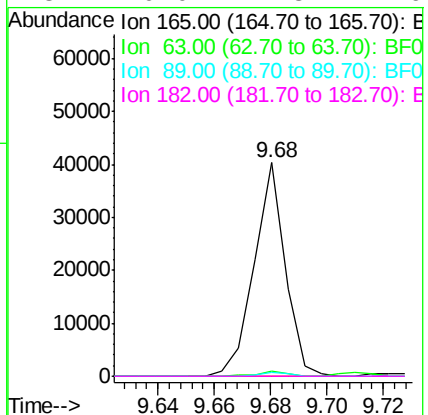
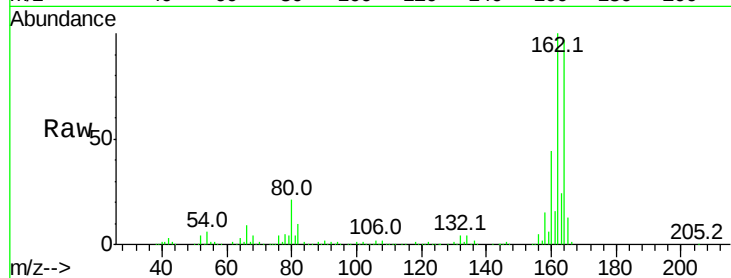




#56
 2,4-Dinitrotoluene
 Concen: 6.876 ng
 RT: 9.68 min Scan# 1291
 Delta R.T. -0.22 min
 Lab File: BF098546.D
 Acq: 14 Sep 2017 23:46

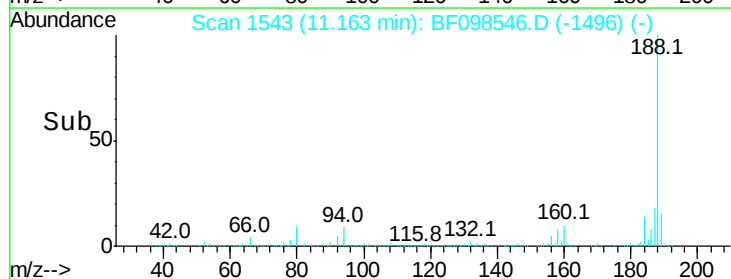
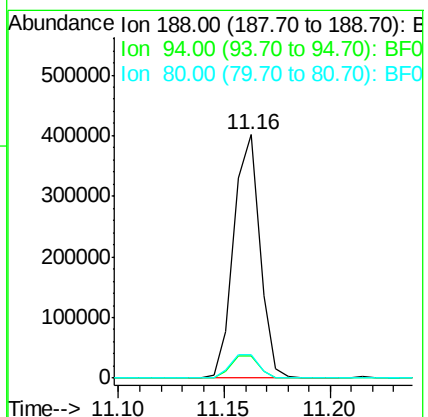
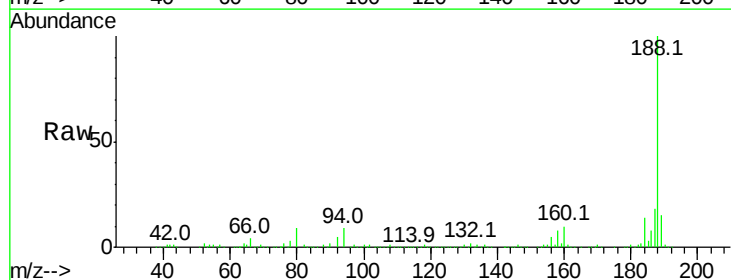
Instrument :
 BNA_F
 ClientSampleId :
 RL-12-13-26

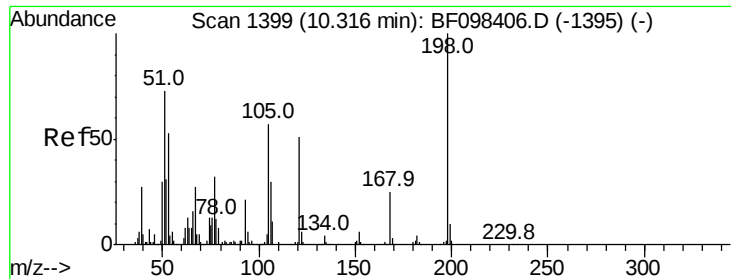
Tot Ion:165 Resp: 30795
 Ion Ratio Lower Upper
 165 100
 63 2.1 25.4 38.0#
 89 2.0 46.4 69.6#
 182 0.0 1.8 2.6#



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.16 min Scan# 1543
 Delta R.T. -0.02 min
 Lab File: BF098546.D
 Acq: 14 Sep 2017 23:46

Tgt Ion:188 Resp: 342463
 Ion Ratio Lower Upper
 188 100
 94 9.2 9.4 14.2#
 80 9.4 10.2 15.2#





#64

4,6-Dinitro-2-methylphenol

Concen: 5.169 ng

RT: 10.47 min Scan# 1425

Delta R.T. 0.15 min

Lab File: BF098546.D

Acq: 14 Sep 2017 23:46

Instrument :

BNA_F

ClientSampleId :

RL-12-13-26

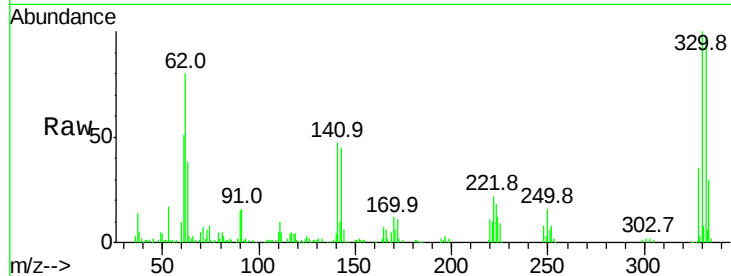
Tot Ion:198 Resp: 480

Ion Ratio Lower Upper

198 100

51 216.2 53.2 93.2#

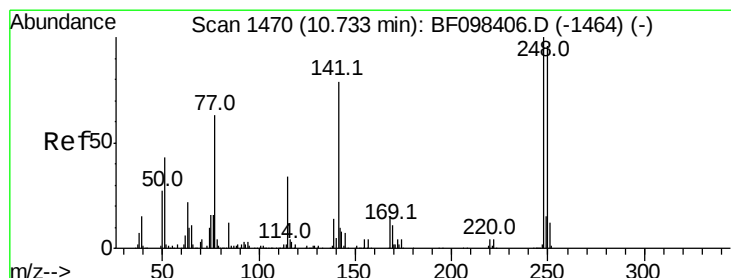
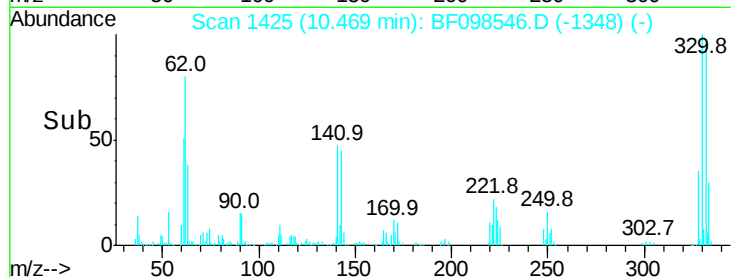
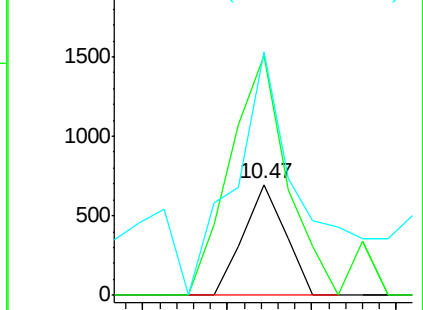
105 219.7 45.8 85.8#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 3.618 ng

RT: 10.47 min Scan# 1425

Delta R.T. -0.26 min

Lab File: BF098546.D

Acq: 14 Sep 2017 23:46

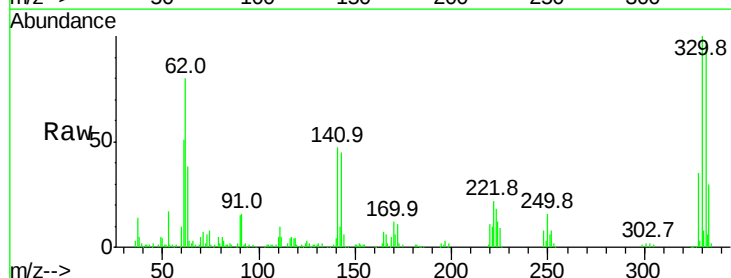
Tgt Ion:248 Resp: 11761

Ion Ratio Lower Upper

248 100

250 198.0 76.8 115.2#

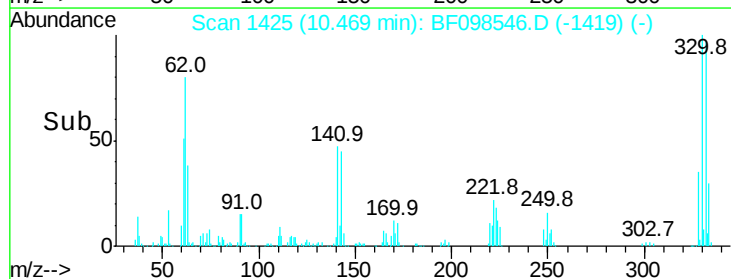
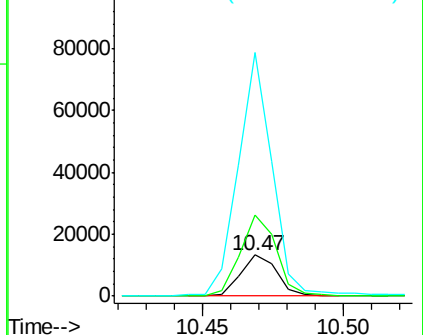
141 592.5 68.6 103.0#

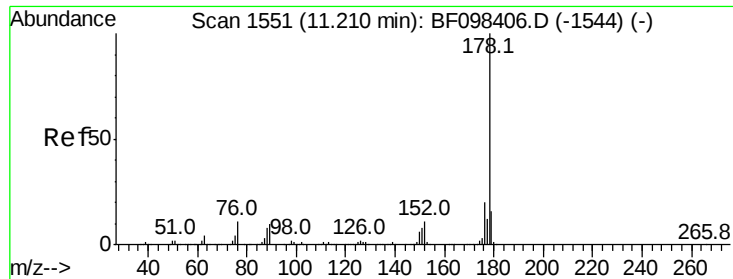


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

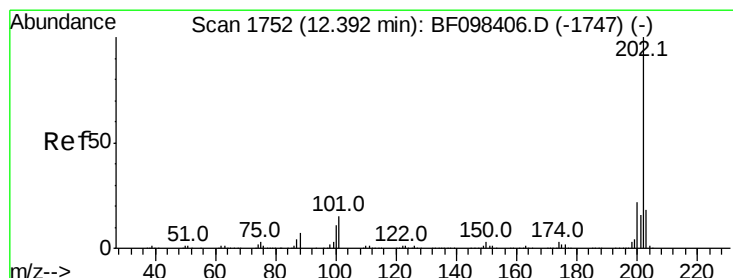
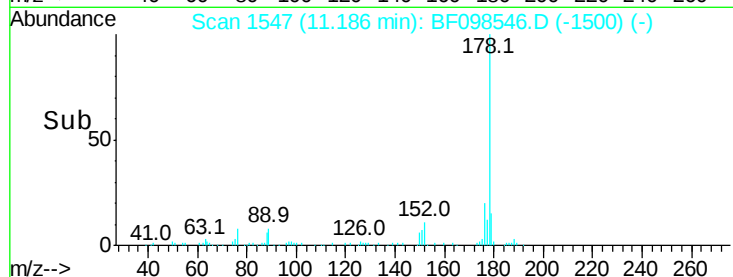
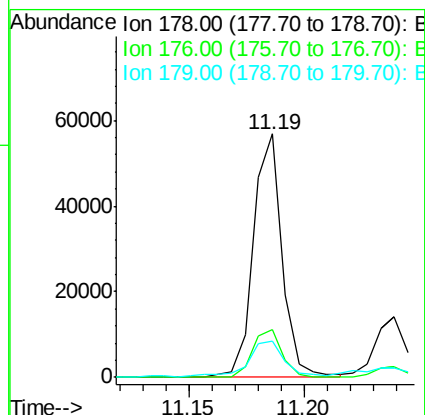
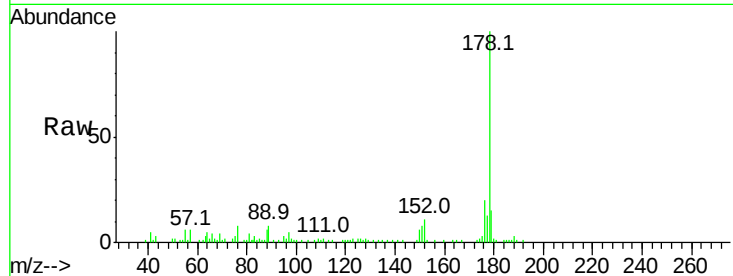




#70
Phenanthrene
Concen: 2.722 ng
RT: 11.19 min Scan# 1547
Delta R.T. -0.02 min
Lab File: BF098546.D
Acq: 14 Sep 2017 23:46

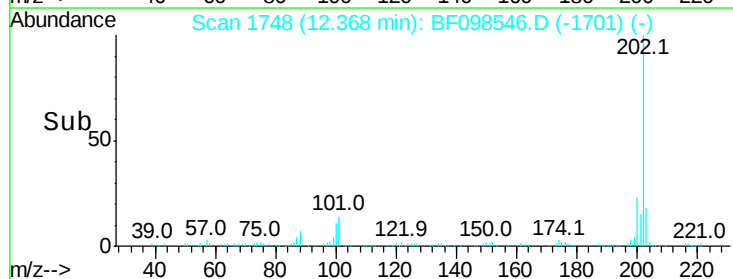
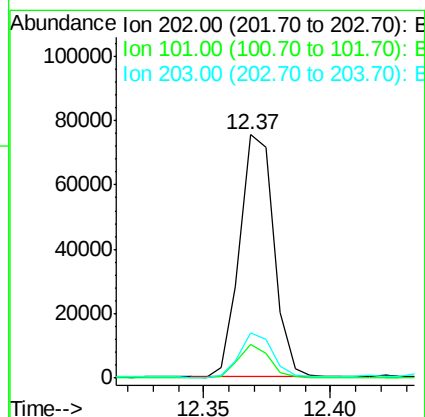
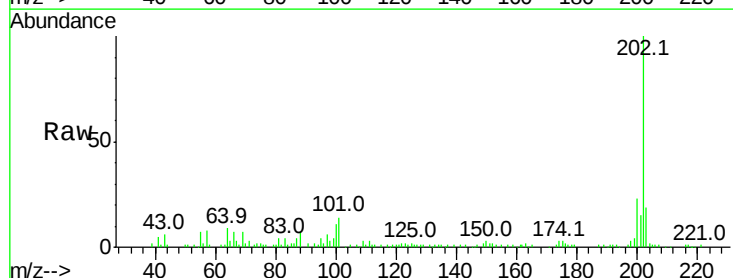
Instrument :
BNA_F
ClientSampleId :
RL-12-13-26

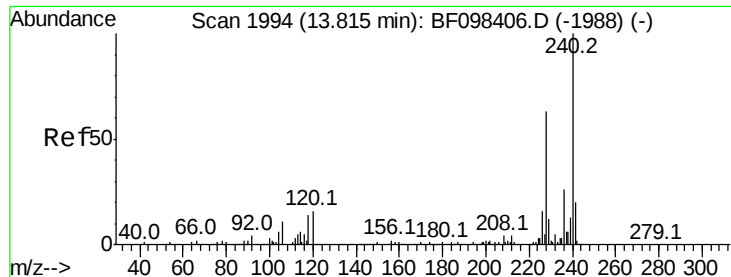
Tot Ion:178 Resp: 49412
Ion Ratio Lower Upper
178 100
176 19.6 16.2 24.4
179 15.1 12.6 19.0



#74
Fluoranthene
Concen: 3.895 ng
RT: 12.37 min Scan# 1748
Delta R.T. -0.02 min
Lab File: BF098546.D
Acq: 14 Sep 2017 23:46

Tgt Ion:202 Resp: 70796
Ion Ratio Lower Upper
202 100
101 13.7 0.0 33.2
203 18.6 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.79 min Scan# 1990

Delta R.T. -0.02 min

Lab File: BF098546.D

Acq: 14 Sep 2017 23:46

Instrument :

BNA_F

ClientSampleId :

RL-12-13-26

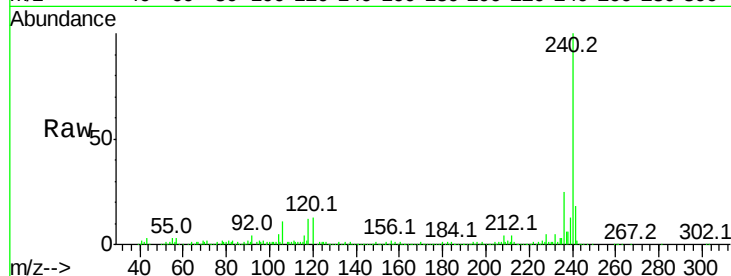
Tot Ion:240 Resp: 265432

Ion Ratio Lower Upper

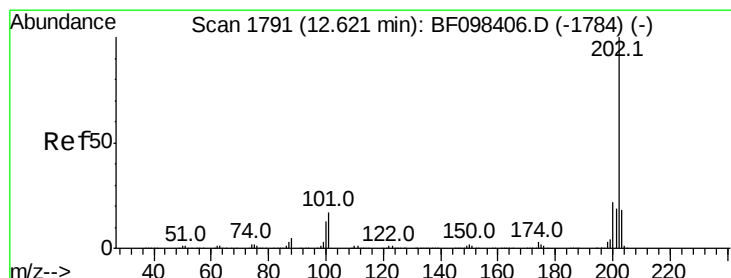
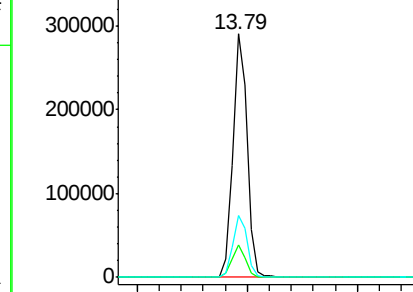
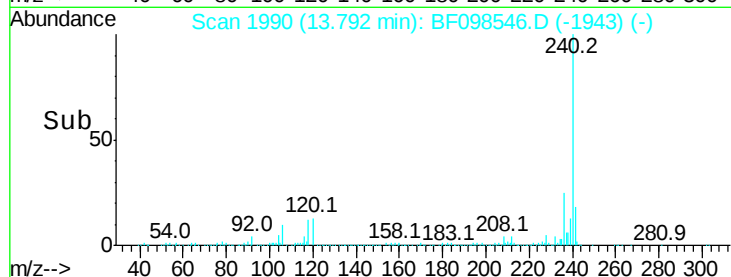
240 100

120 13.1 5.8 8.8#

236 25.3 20.5 30.7



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

Pyrene

Concen: 3.230 ng

RT: 12.60 min Scan# 1787

Delta R.T. -0.02 min

Lab File: BF098546.D

Acq: 14 Sep 2017 23:46

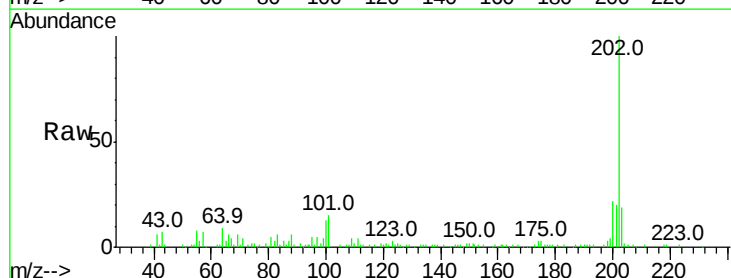
Tgt Ion:202 Resp: 67637

Ion Ratio Lower Upper

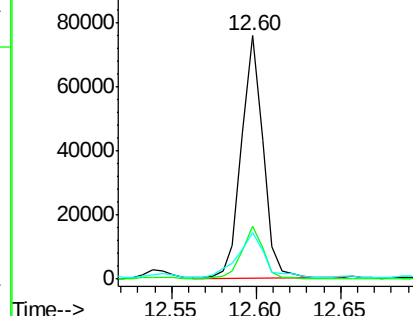
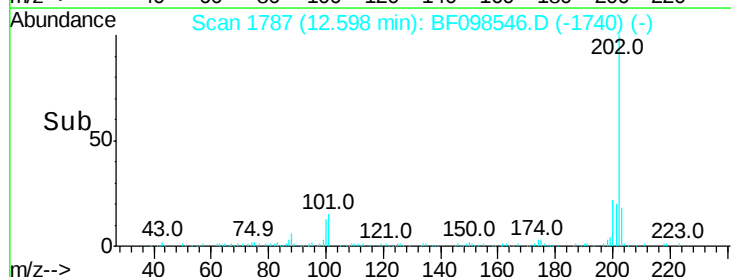
202 100

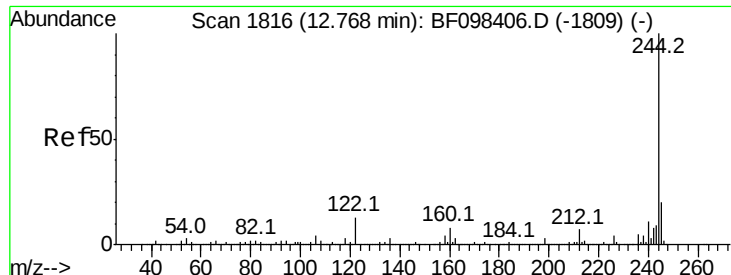
200 21.8 17.6 26.4

203 19.0 14.4 21.6



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

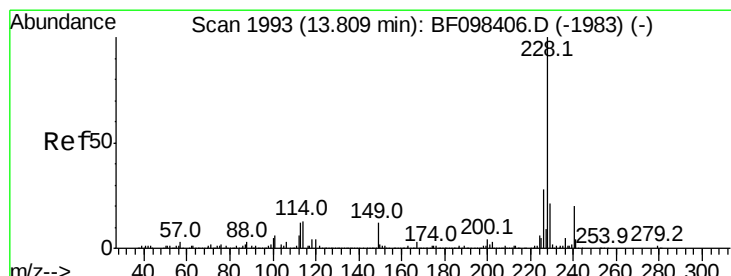
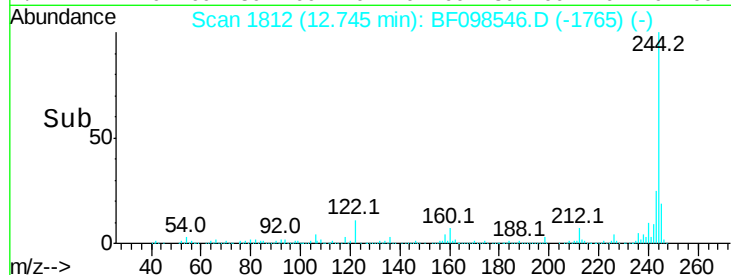
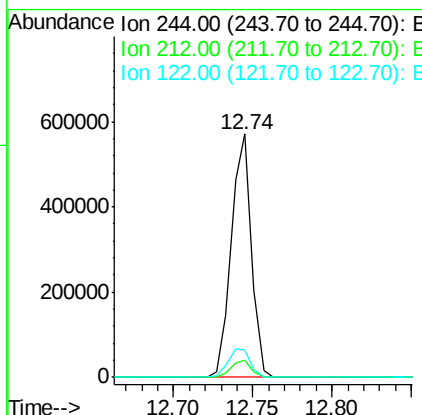
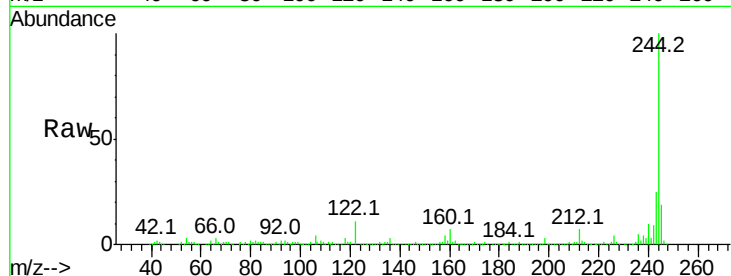




#78
 Terphenyl-d14
 Concen: 40.845 ng
 RT: 12.74 min Scan# 1812
 Delta R.T. -0.02 min
 Lab File: BF098546.D
 Acq: 14 Sep 2017 23:46

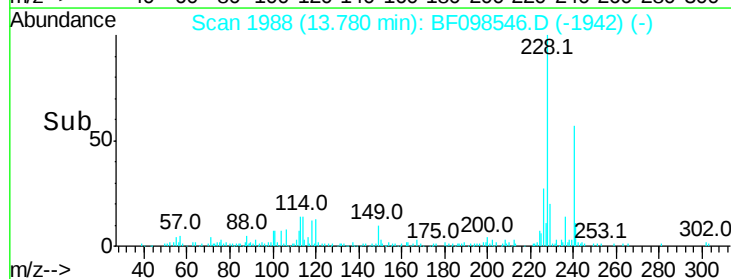
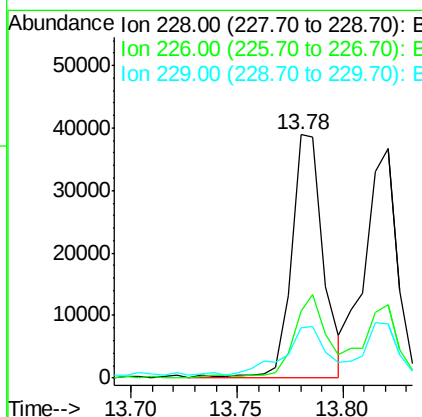
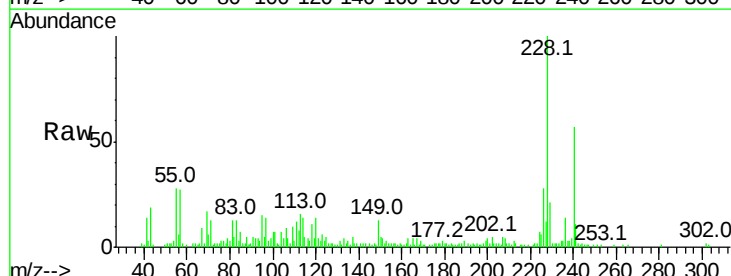
Instrument :
 BNA_F
 ClientSampleId :
 RL-12-13-26

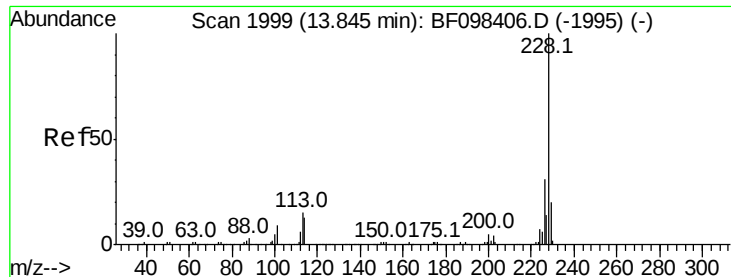
Tot Ion:244 Resp: 502287
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 11.2 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 2.645 ng
 RT: 13.78 min Scan# 1988
 Delta R.T. -0.03 min
 Lab File: BF098546.D
 Acq: 14 Sep 2017 23:46

Tgt Ion:228 Resp: 41163
 Ion Ratio Lower Upper
 228 100
 226 27.5 22.6 33.8
 229 20.7 16.3 24.5





#82

Chrysene

Concen: 2.617 ng

RT: 13.78 min Scan# 1988

Delta R.T. -0.06 min

Lab File: BF098546.D

Acq: 14 Sep 2017 23:46

Instrument :

BNA_F

ClientSampled :

RL-12-13-26

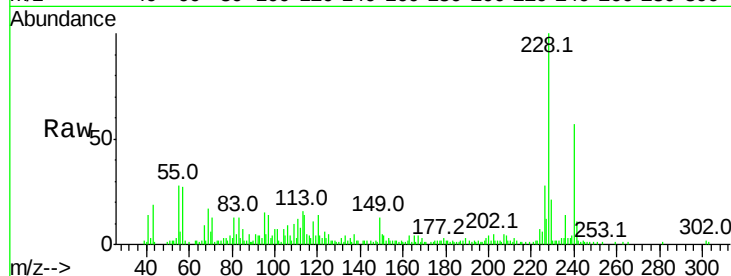
Tot Ion:228 Resp: 41163

Ion Ratio Lower Upper

228 100

226 27.5 24.9 37.3

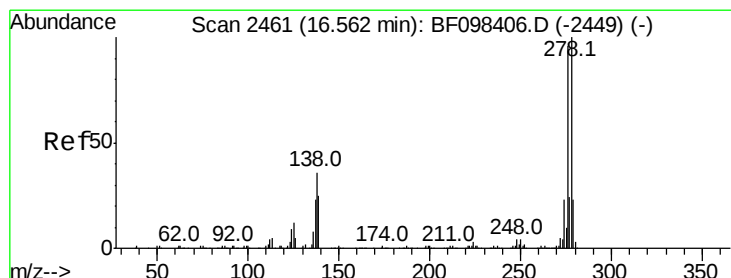
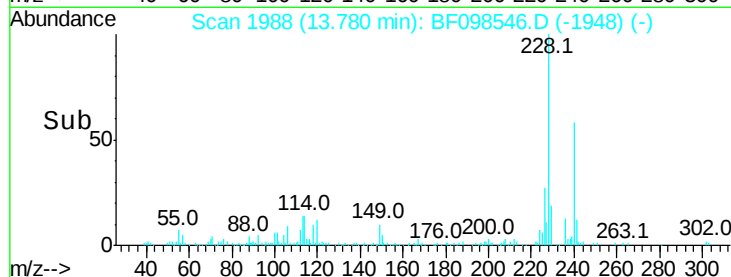
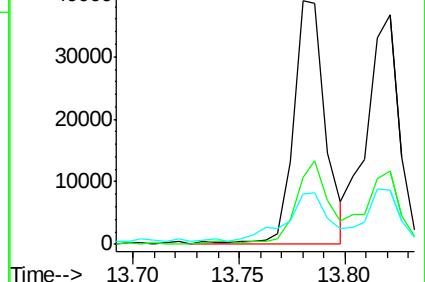
229 20.7 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.085 ng

RT: 16.53 min Scan# 2455

Delta R.T. -0.04 min

Lab File: BF098546.D

Acq: 14 Sep 2017 23:46

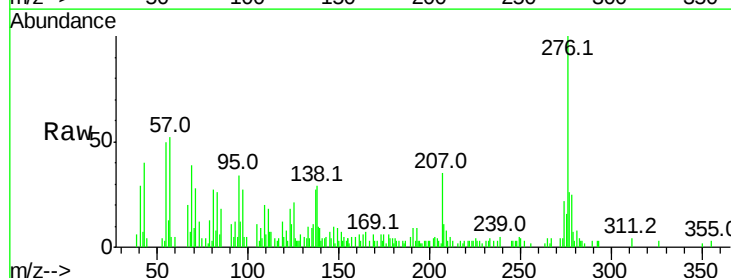
Tgt Ion:276 Resp: 23006

Ion Ratio Lower Upper

276 100

138 30.5 27.8 41.6

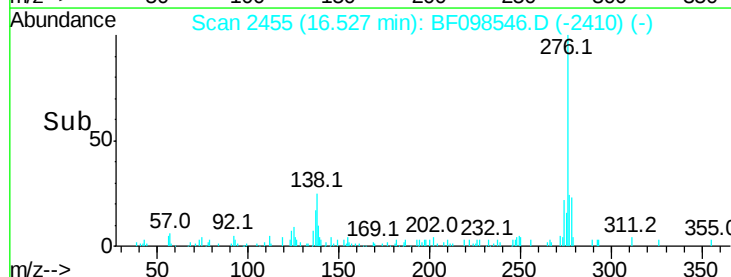
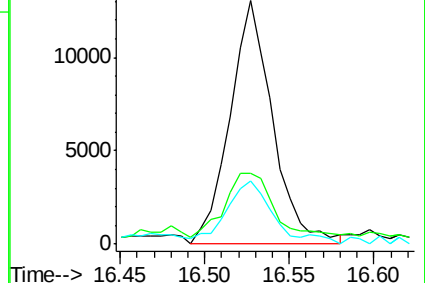
277 22.4 20.2 30.4

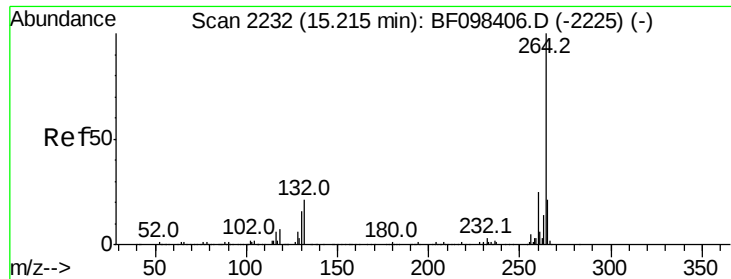


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

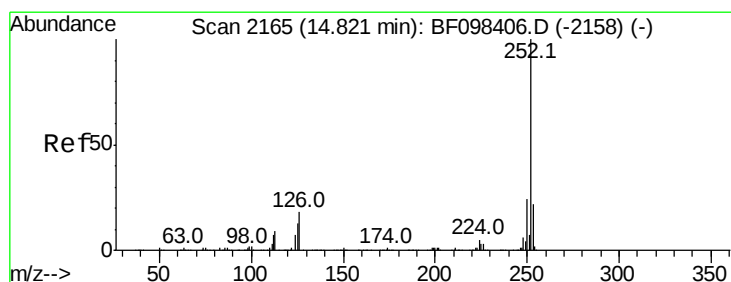
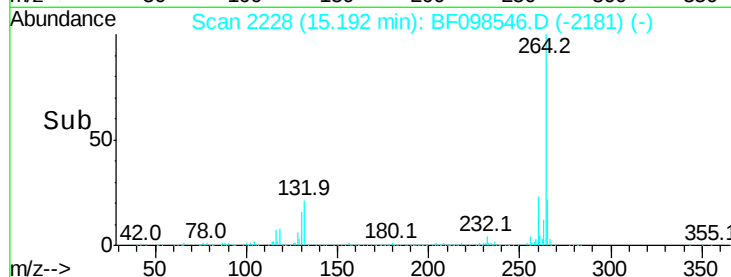
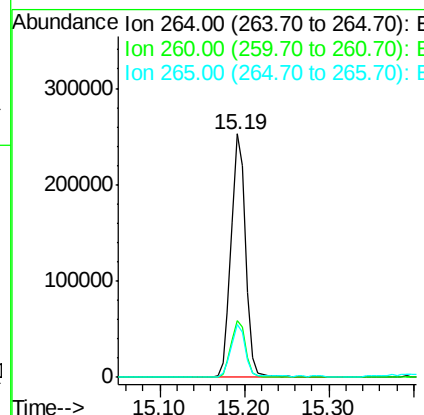
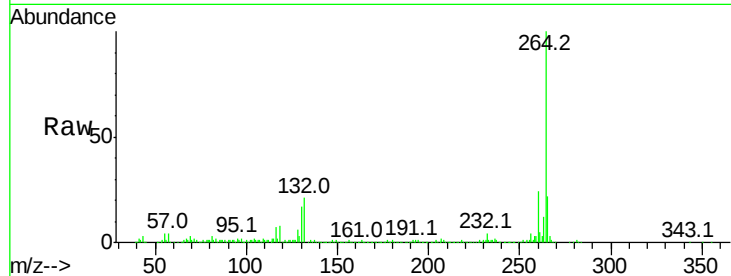




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.19 min Scan# 2228
Delta R.T. -0.02 min
Lab File: BF098546.D
Acq: 14 Sep 2017 23:46

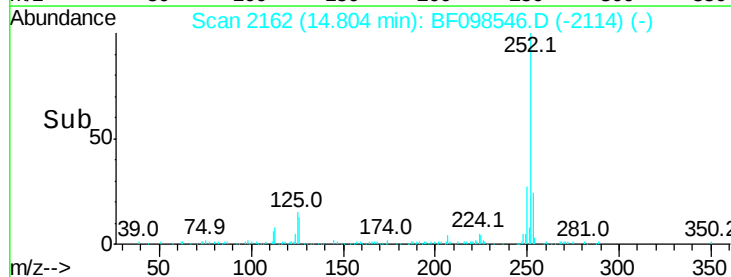
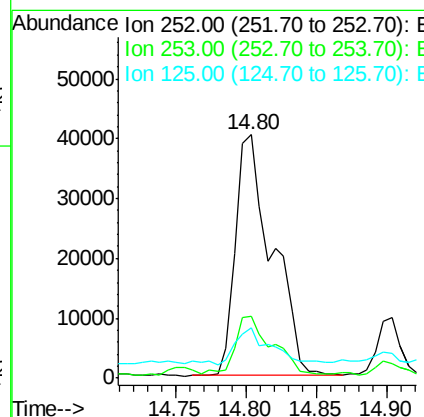
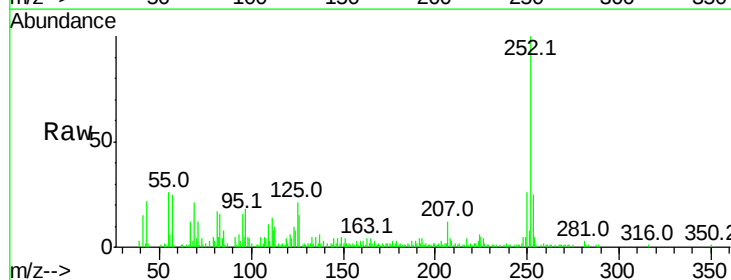
Instrument :
BNA_F
ClientSampleId :
RL-12-13-26

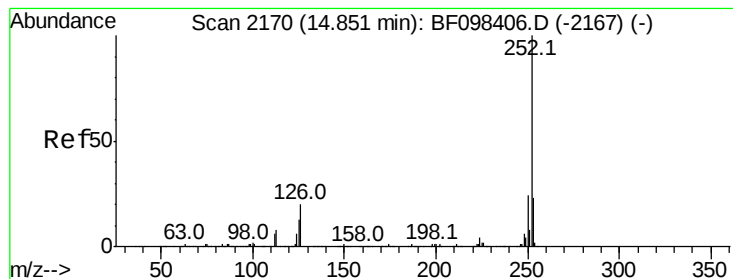
Tot Ion:264 Resp: 298800
Ion Ratio Lower Upper
264 100
260 23.6 19.5 29.3
265 21.7 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 3.924 ng
RT: 14.80 min Scan# 2162
Delta R.T. -0.02 min
Lab File: BF098546.D
Acq: 14 Sep 2017 23:46

Tgt Ion:252 Resp: 73728
Ion Ratio Lower Upper
252 100
253 25.5 18.1 27.1
125 20.6 9.8 14.8#





#88

Benzo(k)fluoranthene

Concen: 4.204 ng

RT: 14.80 min Scan# 2162

Delta R.T. -0.05 min

Lab File: BF098546.D

Acq: 14 Sep 2017 23:46

Instrument :

BNA_F

ClientSampleId :

RL-12-13-26

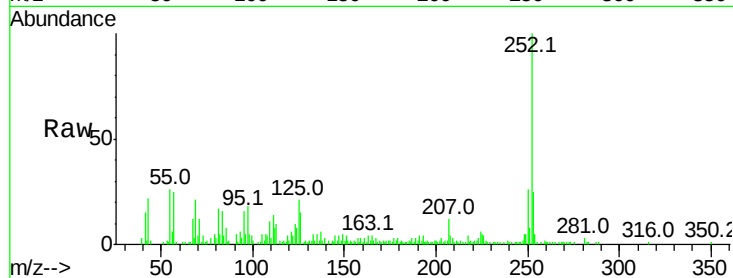
Tot Ion:252 Resp: 73728

Ion Ratio Lower Upper

252 100

253 25.5 18.4 27.6

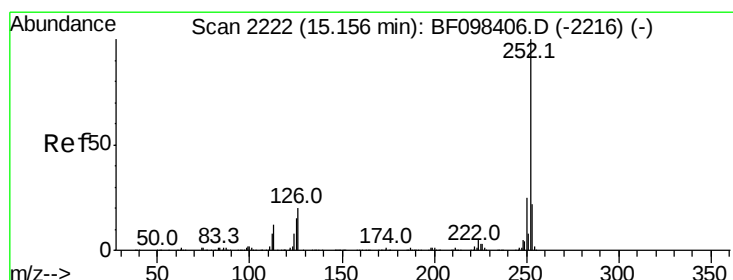
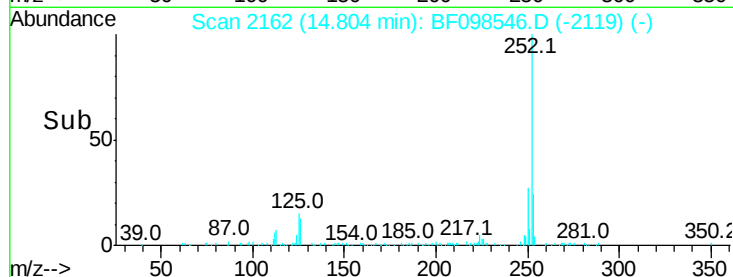
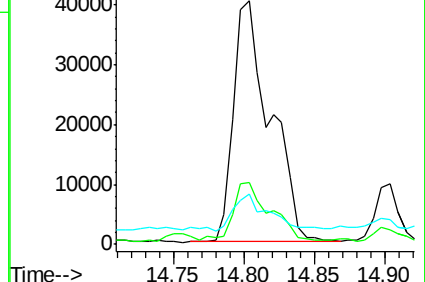
125 20.6 13.1 19.7#



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: 2.616 ng

RT: 15.13 min Scan# 2218

Delta R.T. -0.02 min

Lab File: BF098546.D

Acq: 14 Sep 2017 23:46

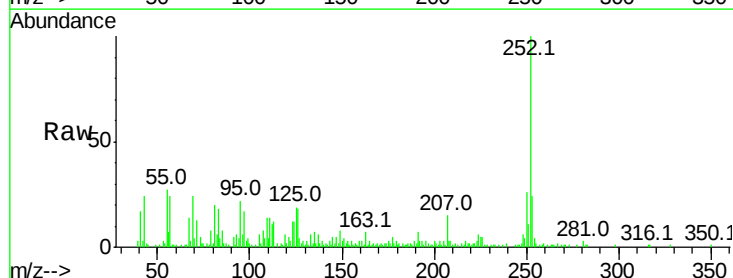
Tgt Ion:252 Resp: 43782

Ion Ratio Lower Upper

252 100

253 24.0 17.5 26.3

125 19.3 11.0 16.4#



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

