

Data Path : Z:\HPCHEM1\BNA F\Data\BF041117\
 Data File : BF094383.D
 Acq On : 12 Apr 2017 8:52
 Operator : SJ/MA
 Sample : I2463-11RE
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 12 11:00:58 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 06 13:20:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.83	152	135308	20.00	ng	-0.03
21) Naphthalene-d8	7.33	136	488719	20.00	ng	-0.03
38) Acenaphthene-d10	9.47	164	192338	20.00	ng	-0.03
63) Phenanthrene-d10	11.30	188	312289	20.00	ng	-0.02
75) Chrysene-d12	14.60	240	676713	20.00	ng	0.02
86) Perylene-d12	16.23	264	161196	20.00	ng	0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.38	112	876249	109.38	ng	0.00
7) Phenol-d6	5.47	99	1064176	107.38	ng	0.00
23) Nitrobenzene-d5	6.48	82	617779	72.14	ng	-0.03
41) 2,4,6-Tribromophenol	10.45	330	168619	110.94	ng	-0.02
44) 2-Fluorobiphenyl	8.66	172	1062743	84.28	ng	-0.03
78) Terphenyl-d14	13.31	244	544726	18.04	ng	0.01

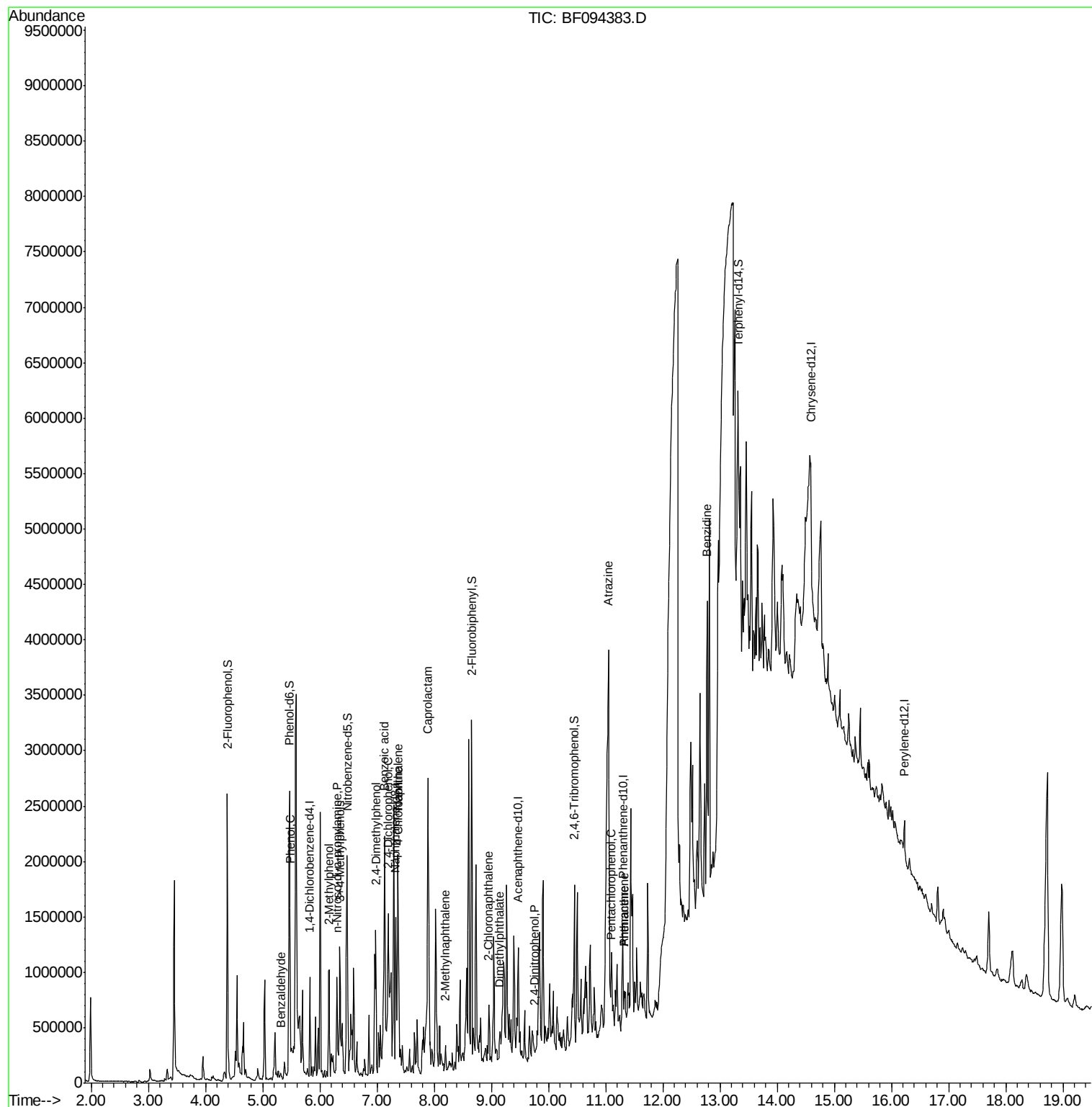
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	5.32	77	14277	2.13	ng	95
10) Phenol	5.48	94	49382	4.38	ng	95
17) 2-Methylphenol	6.16	107	202627	26.87	ng	95
19) n-Nitroso-di-n-propylamine	6.30	70	90006	14.13	ng	# 63
20) 3+4-Methylphenols	6.35	107	279987	30.66	ng	# 60
27) 2,4-Dimethylphenol	6.98	122	434485	62.60	ng	94
29) 2,4-Dichlorophenol	7.19	162	99952	15.40	ng	96
31) Naphthalene	7.36	128	666771	28.37	ng	# 87
32) Benzoic acid	7.13	122	513442	111.13	ng	# 20
33) 4-Chloroaniline	7.36	127	47156	4.95	ng	# 12
35) Caprolactam	7.90	113	48721	23.54	ng	# 69
37) 2-Methylnaphthalene	8.20	142	57951	3.70	ng	97
46) 2-Chloronaphthalene	8.96	162	132043	10.87	ng	# 46
49) Dimethylphthalate	9.15	163	69500	5.08	ng	99
53) 2,4-Dinitrophenol	9.76	184	148	4.75	ng	# 56
68) Atrazine	11.05	200	8347	2.58	ng	# 51
69) Pentachlorophenol	11.09	266	19538	10.10	ng	96
70) Phenanthrene	11.32	178	92387	5.32	ng	96
71) Anthracene	11.32	178	92387	5.17	ng	97
76) Benzydine	12.77	184	56329	2.10	ng	# 1

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

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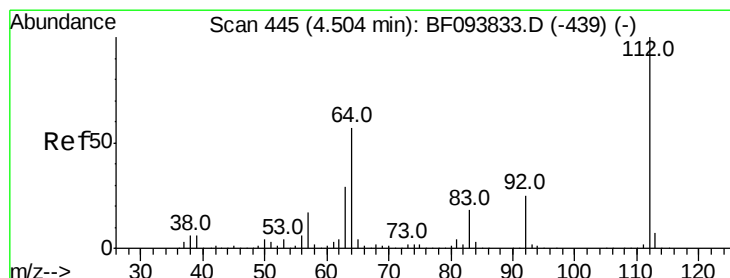
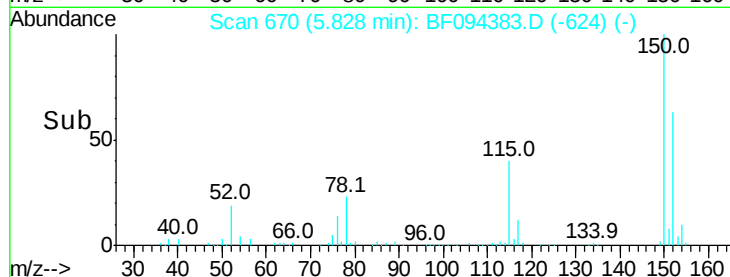
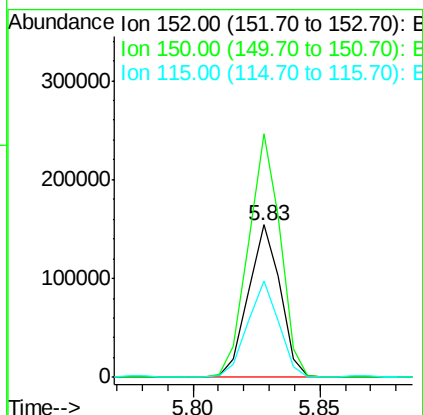
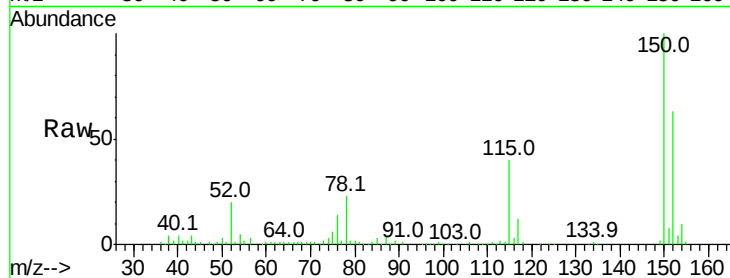




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.83 min Scan# 670
 Delta R.T. -0.03 min
 Lab File: BF094383.D
 Acq: 12 Apr 2017 8:52

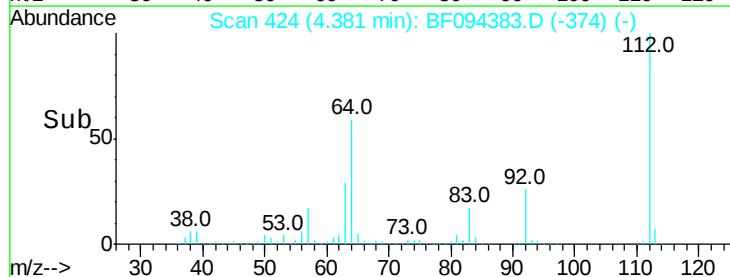
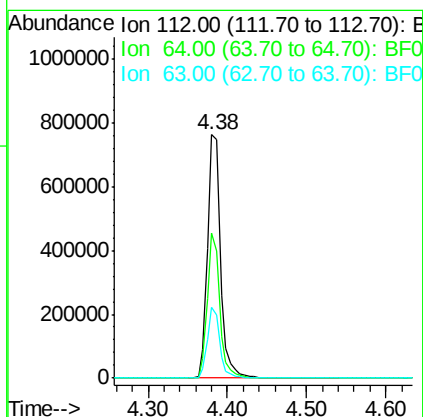
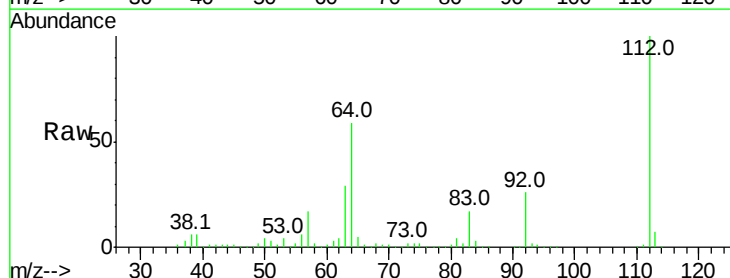
Instrument :
 BNA_F
 ClientSampleId :

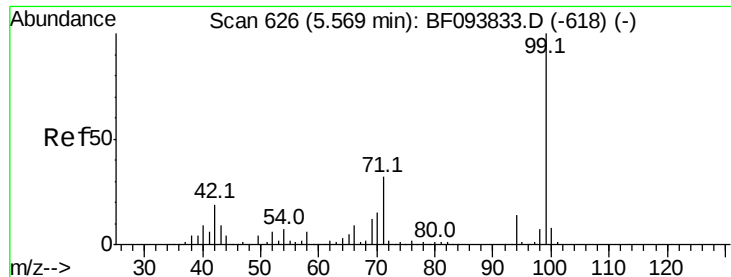
Tot Ion:152 Resp: 135308
 Ion Ratio Lower Upper
 152 100
 150 159.9 126.2 189.2
 115 63.6 52.2 78.2



#5
 2-Fluorophenol
 Concen: 109.38 ng
 RT: 4.38 min Scan# 424
 Delta R.T. -0.01 min
 Lab File: BF094383.D
 Acq: 12 Apr 2017 8:52

Tgt Ion:112 Resp: 876249
 Ion Ratio Lower Upper
 112 100
 64 59.4 46.0 69.0
 63 29.1 23.4 35.0





#7

Phenol-d6

Concen: 107.38 ng

RT: 5.47 min Scan# 609

Delta R.T. 0.01 min

Lab File: BF094383.D

Acq: 12 Apr 2017 8:52

Instrument :

BNA_F

ClientSampleId :

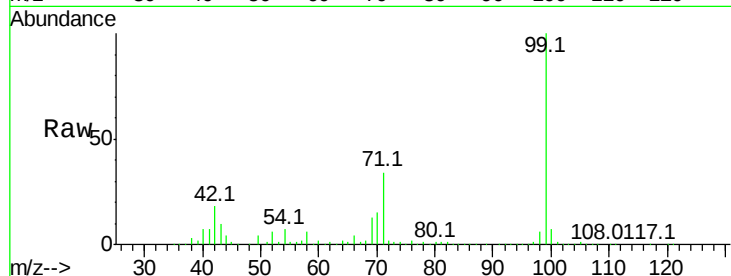
Tot Ion: 99 Resp: 1064176

Ion Ratio Lower Upper

99 100

42 18.0 13.5 20.3

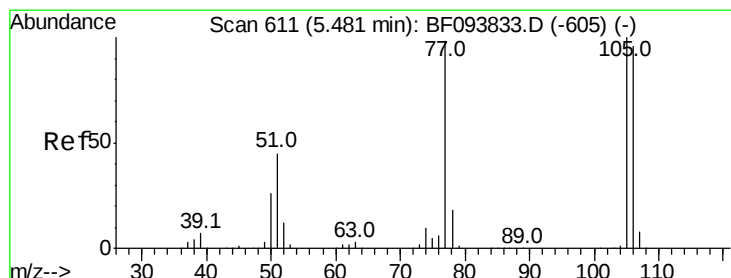
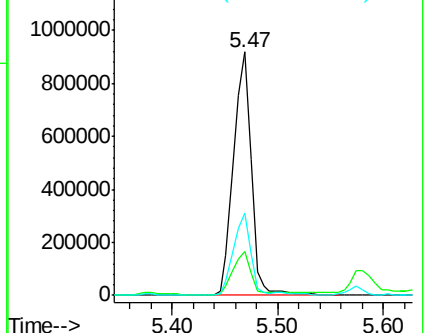
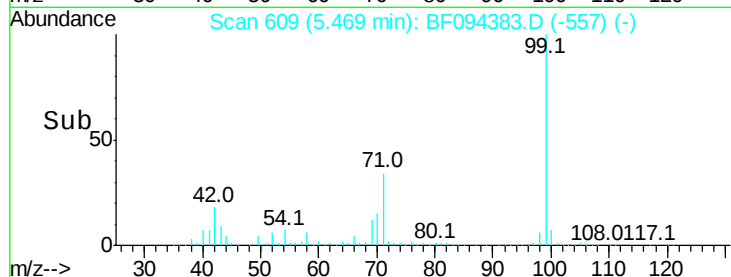
71 34.0 24.5 36.7



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



#9

Benzaldehyde

Concen: 2.13 ng

RT: 5.32 min Scan# 584

Delta R.T. -0.03 min

Lab File: BF094383.D

Acq: 12 Apr 2017 8:52

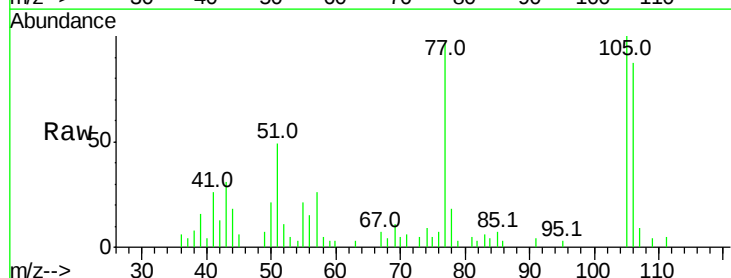
Tgt Ion: 77 Resp: 14277

Ion Ratio Lower Upper

77 100

105 102.6 83.8 123.8

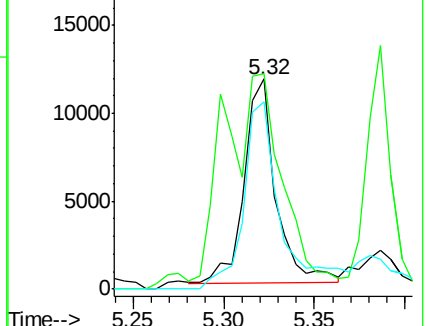
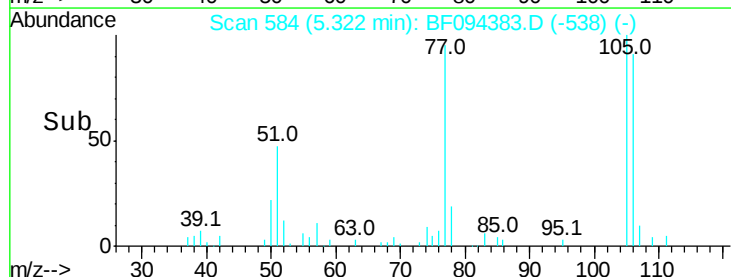
106 89.3 79.1 119.1

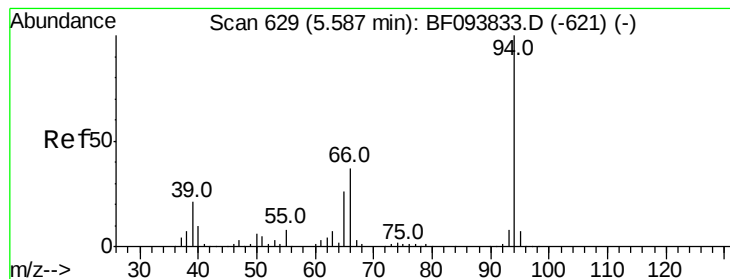


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 4.38 ng

RT: 5.48 min Scan# 611

Delta R.T. -0.00 min

Lab File: BF094383.D

Acq: 12 Apr 2017 8:52

Instrument :

BNA_F

ClientSampleId :

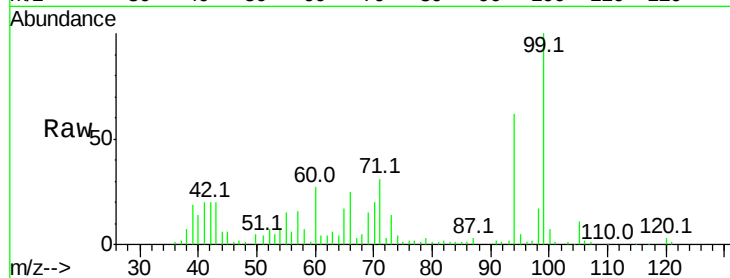
Tot Ion: 94 Resp: 49382

Ion Ratio Lower Upper

94 100

65 27.7 9.9 49.9

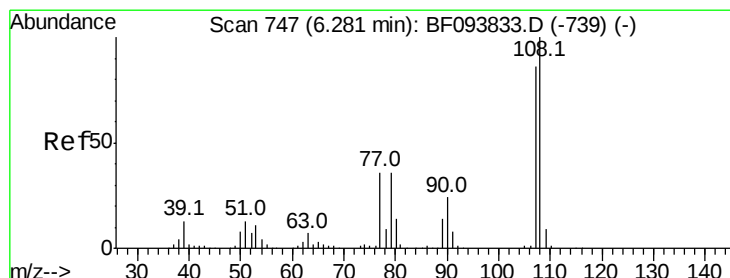
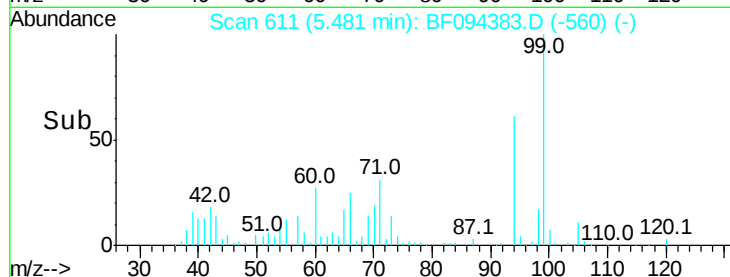
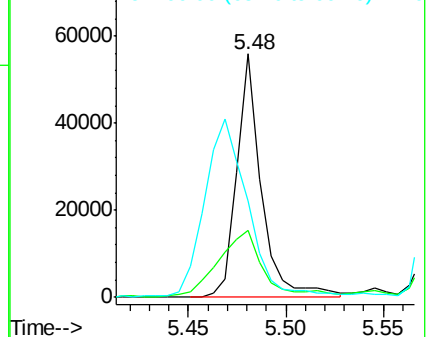
66 39.7 23.1 63.1



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: 26.87 ng

RT: 6.16 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF094383.D

Acq: 12 Apr 2017 8:52

Tgt Ion:107 Resp: 202627

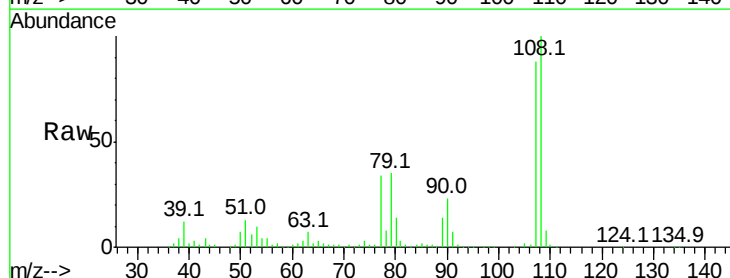
Ion Ratio Lower Upper

107 100

108 113.4 93.4 140.0

77 38.3 35.8 53.6

79 40.2 34.8 52.2

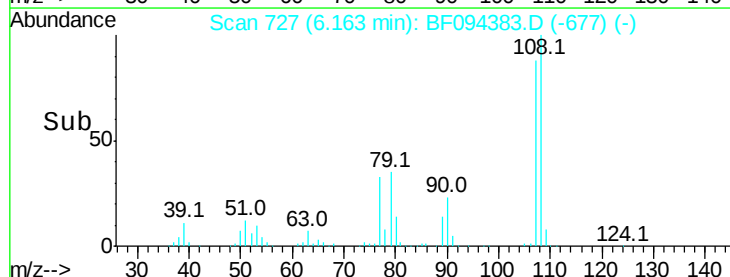
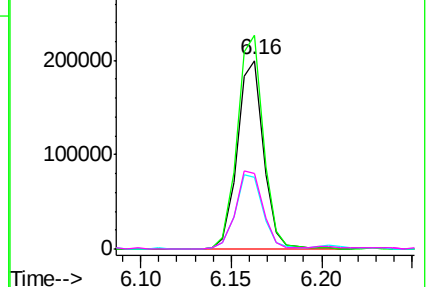


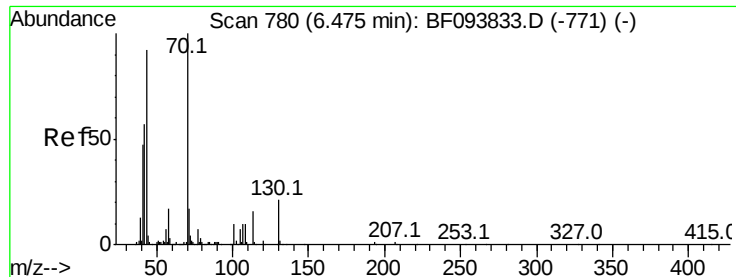
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 14.13 ng

RT: 6.30 min Scan# 750

Delta R.T. -0.05 min

Lab File: BF094383.D

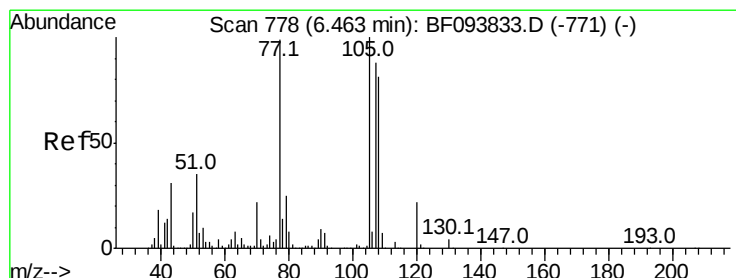
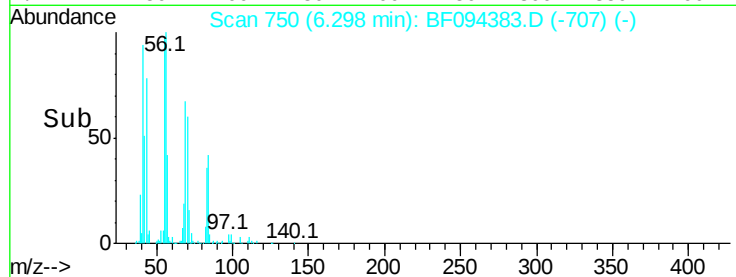
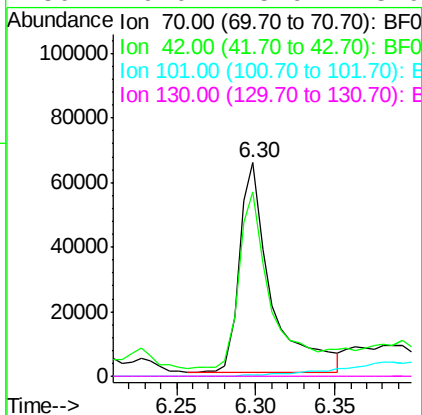
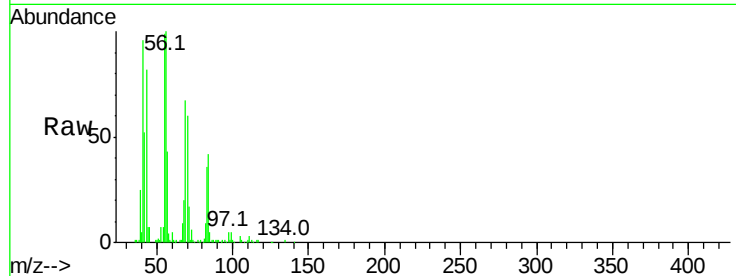
Acq: 12 Apr 2017 8:52

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	70	Resp:	90006
Ion	Ratio	Lower	Upper
70	100		
42	86.4	47.2	70.8#
101	0.8	7.2	10.8#
130	0.0	15.9	23.9#



#20

3+4-Methylphenols

Concen: 30.66 ng

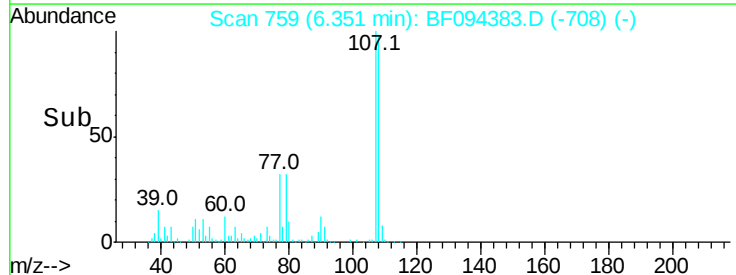
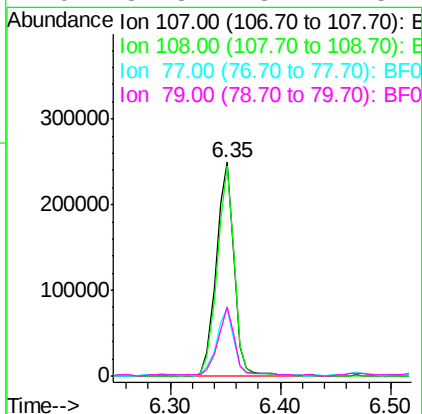
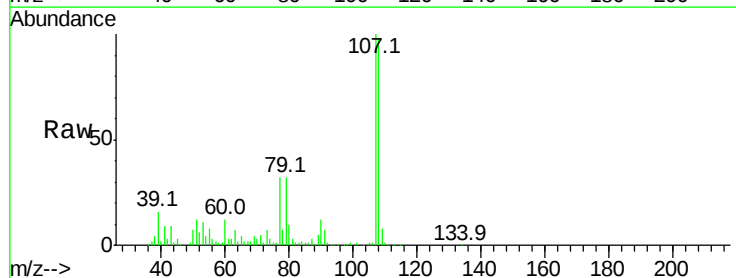
RT: 6.35 min Scan# 759

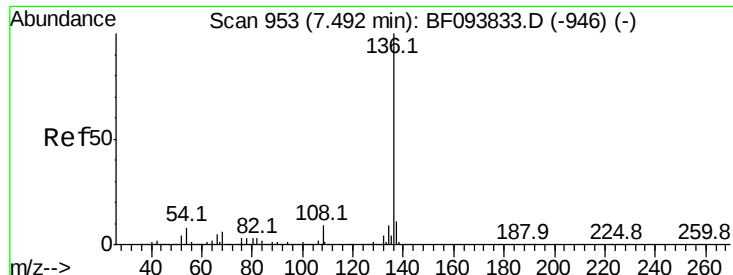
Delta R.T. -0.00 min

Lab File: BF094383.D

Acq: 12 Apr 2017 8:52

Tgt Ion:	107	Resp:	279987
Ion	Ratio	Lower	Upper
107	100		
108	98.2	71.0	111.0
77	31.9	90.5	130.5#
79	32.3	8.4	48.4

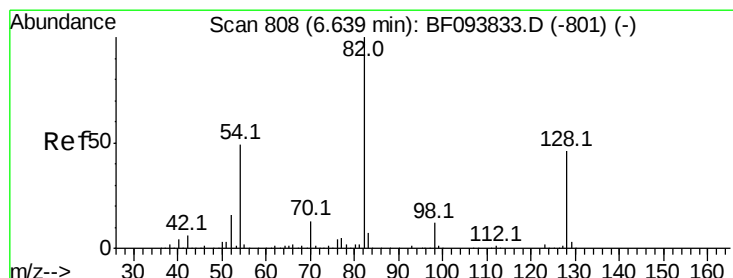
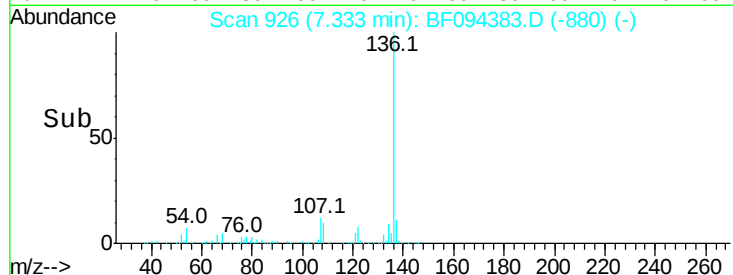
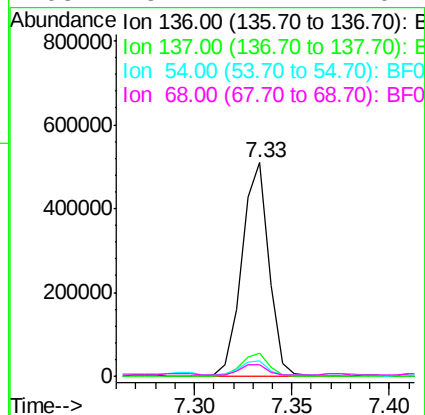
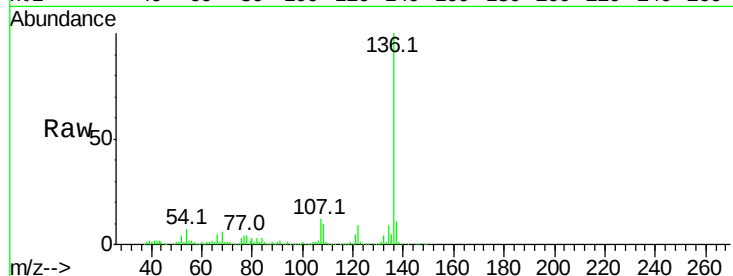




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.33 min Scan# 926
Delta R.T. -0.03 min
Lab File: BF094383.D
Acq: 12 Apr 2017 8:52

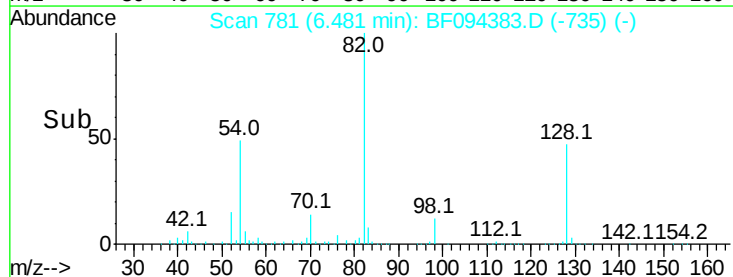
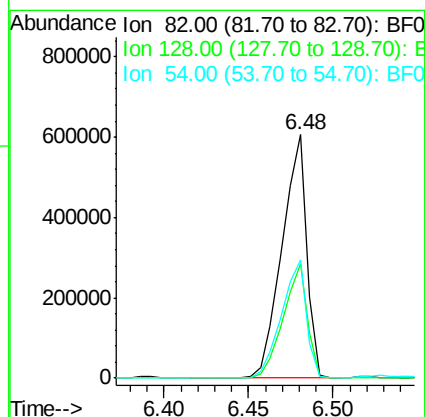
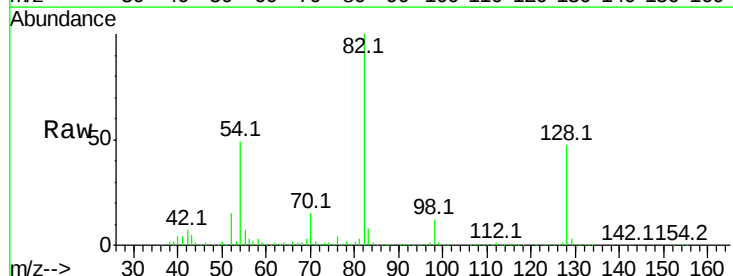
Instrument :
BNA_F
ClientSampleId :

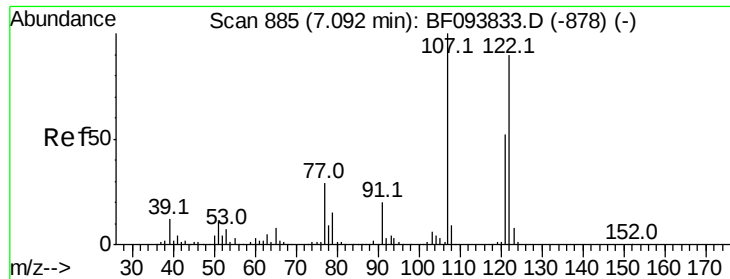
Tot Ion:136	Resp:	488719
Ion Ratio	Lower	Upper
136 100		
137 10.8	8.5	12.7
54 7.0	4.9	7.3
68 5.7	4.1	6.1



#23
Nitrobenzene-d5
Concen: 72.14 ng
RT: 6.48 min Scan# 781
Delta R.T. -0.03 min
Lab File: BF094383.D
Acq: 12 Apr 2017 8:52

Tgt Ion: 82	Resp:	617779
Ion Ratio	Lower	Upper
82 100		
128 47.2	34.0	51.0
54 48.6	42.2	63.2

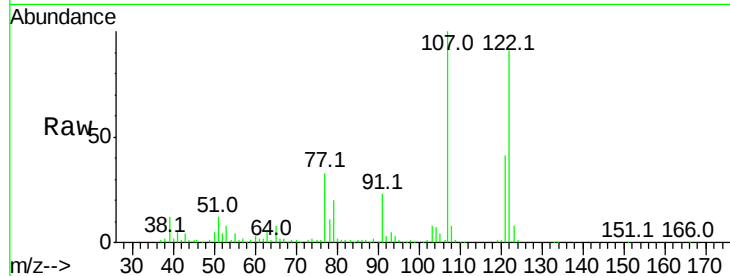




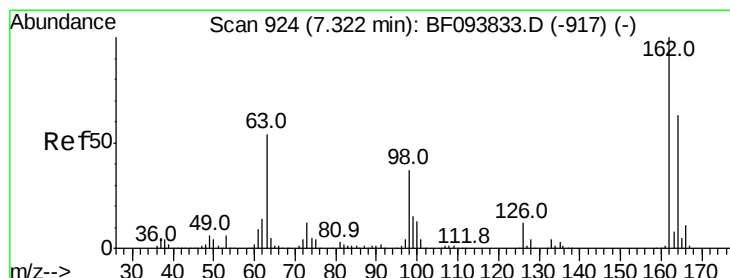
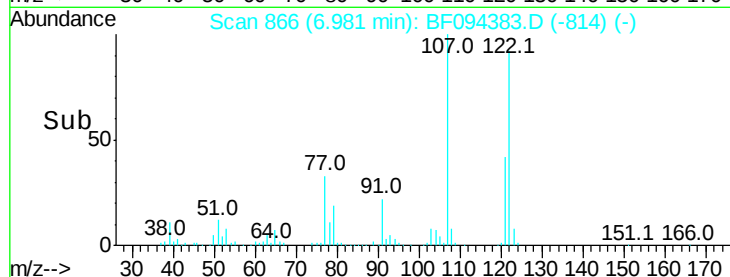
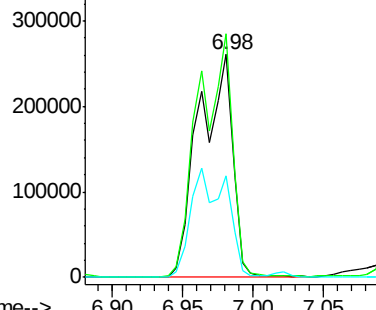
#27
2,4-Dimethylphenol
Concen: 62.60 ng
RT: 6.98 min Scan# 866
Delta R.T. 0.01 min
Lab File: BF094383.D
Acq: 12 Apr 2017 8:52

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
122	100		
107	109.3	89.2	133.8
121	45.3	45.2	67.8

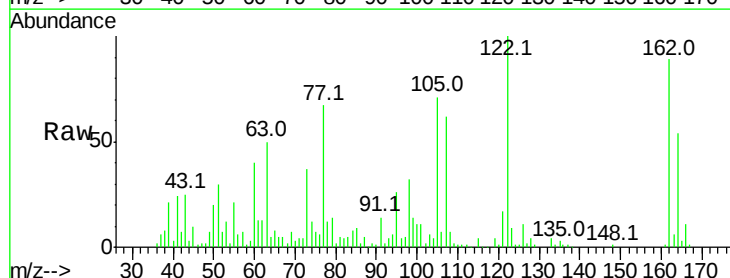


Abundance Ion 122.00 (121.70 to 122.70): E
Ion 107.00 (106.70 to 107.70): E
Ion 121.00 (120.70 to 121.70): E

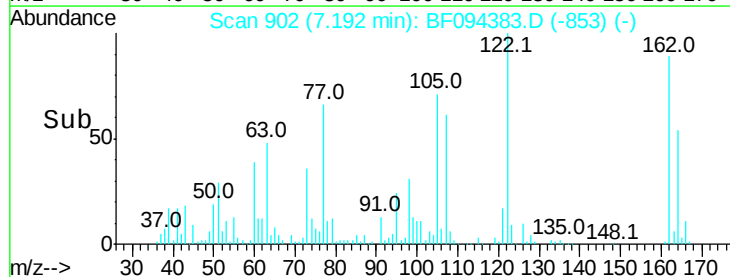
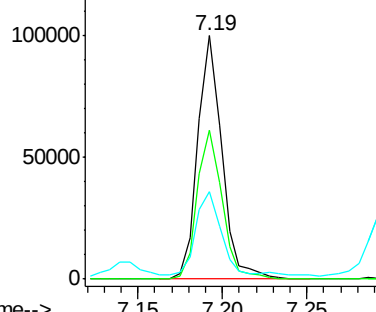


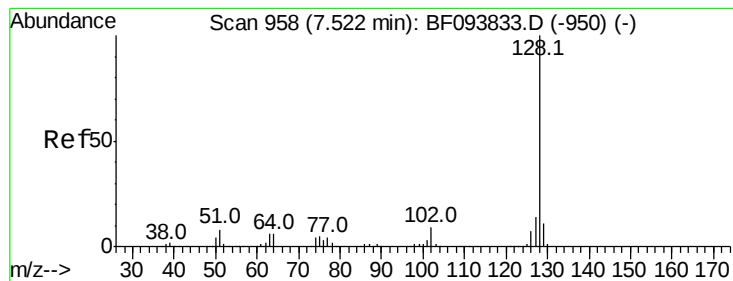
#29
2,4-Dichlorophenol
Concen: 15.40 ng
RT: 7.19 min Scan# 902
Delta R.T. -0.01 min
Lab File: BF094383.D
Acq: 12 Apr 2017 8:52

Tgt Ion	Ratio	Lower	Upper
162	100		
164	61.0	44.6	84.6
98	35.7	14.8	54.8



Abundance Ion 162.00 (161.70 to 162.70): E
Ion 164.00 (163.70 to 164.70): E
Ion 98.00 (97.70 to 98.70): BF0





#31

Naphthalene

Concen: 28.37 ng

RT: 7.36 min Scan# 931

Delta R.T. -0.02 min

Lab File: BF094383.D

Acq: 12 Apr 2017 8:52

Instrument :

BNA_F

ClientSampleId :

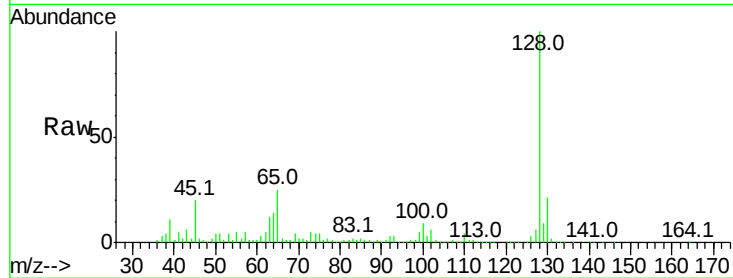
Tot Ion:128 Resp: 666771

Ion Ratio Lower Upper

128 100

129 9.0 9.0 13.6#

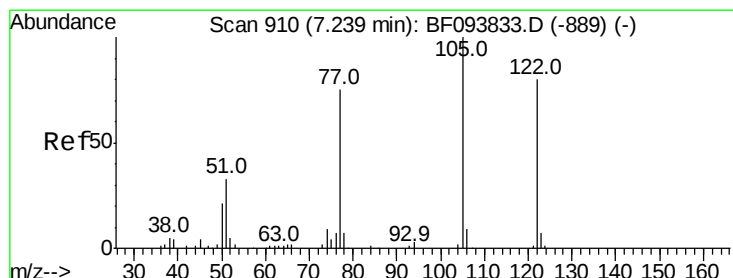
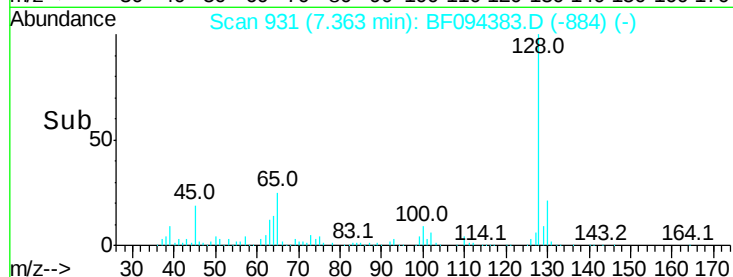
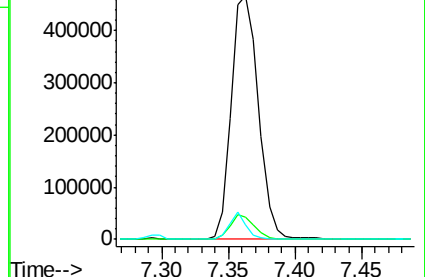
127 5.9 10.8 16.2#



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: 111.13 ng

RT: 7.13 min Scan# 892

Delta R.T. -0.01 min

Lab File: BF094383.D

Acq: 12 Apr 2017 8:52

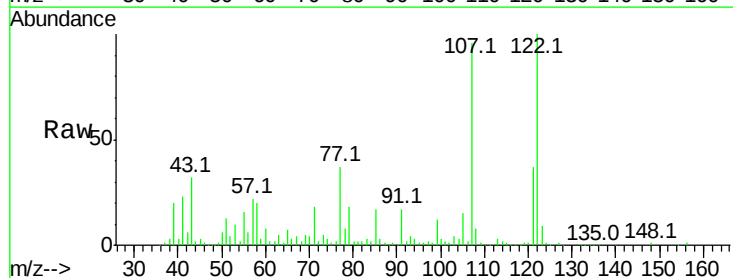
Tgt Ion:122 Resp: 513442

Ion Ratio Lower Upper

122 100

105 14.6 103.3 143.3#

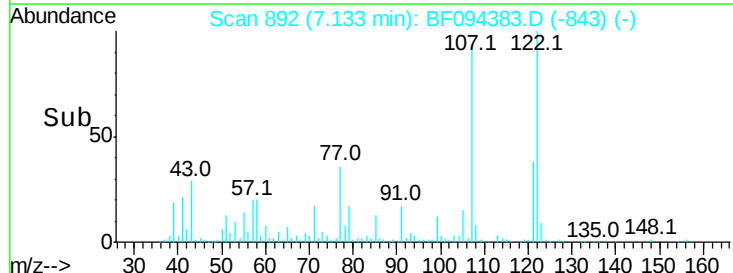
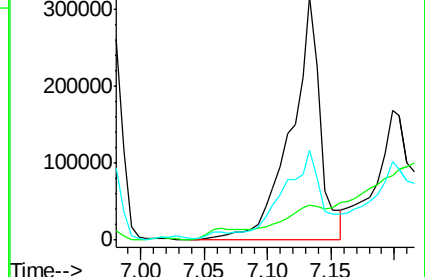
77 37.1 73.7 113.7#

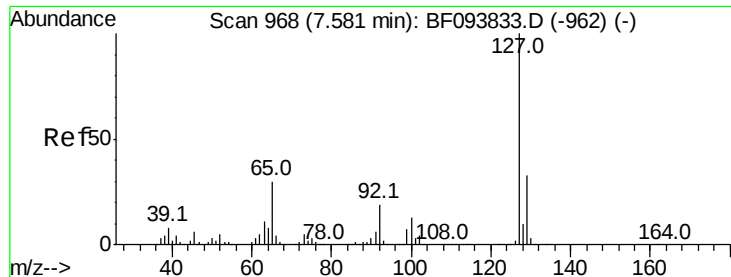


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

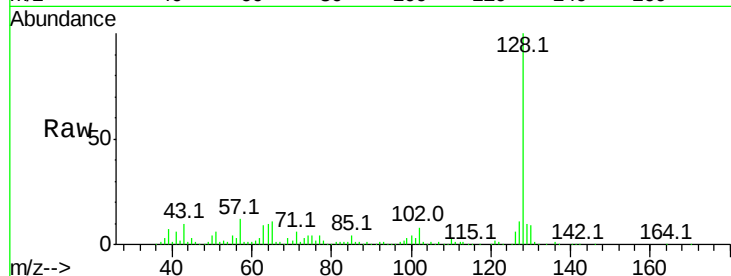




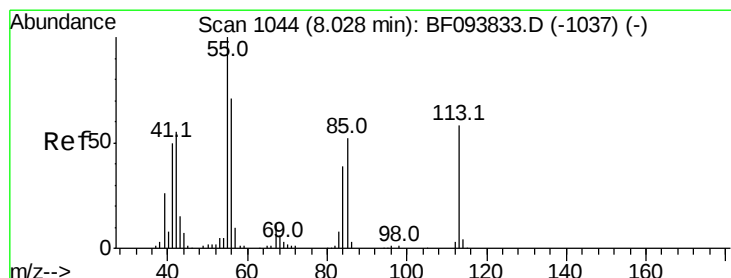
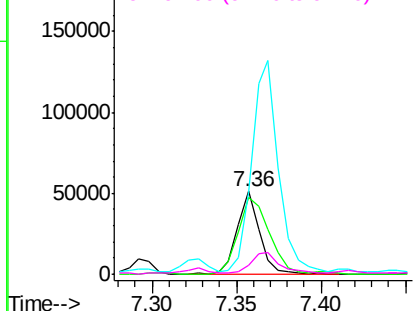
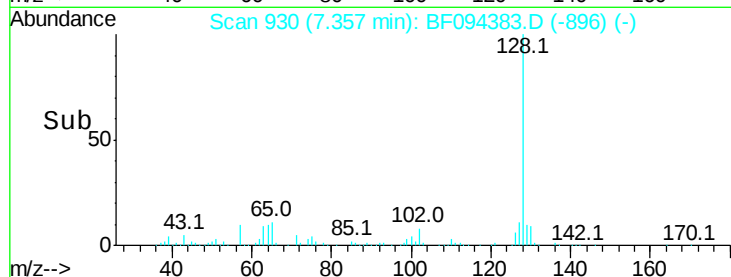
#33
 4-Chloroaniline
 Concen: 4.95 ng
 RT: 7.36 min Scan# 930
 Delta R.T. -0.10 min
 Lab File: BF094383.D
 Acq: 12 Apr 2017 8:52

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	127	Resp:	47156
Ion	Ratio	Lower	Upper
127	100		
129	92.4	26.2	39.2#
65	99.6	27.8	41.8#
92	11.4	16.8	25.2#

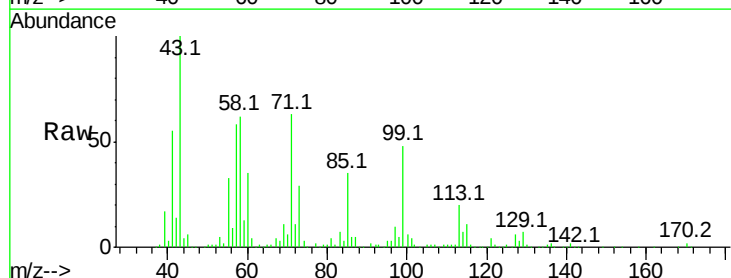


Abundance Ion 127.00 (126.70 to 127.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 65.00 (64.70 to 65.70): BF0
 Ion 92.00 (91.70 to 92.70): BF0

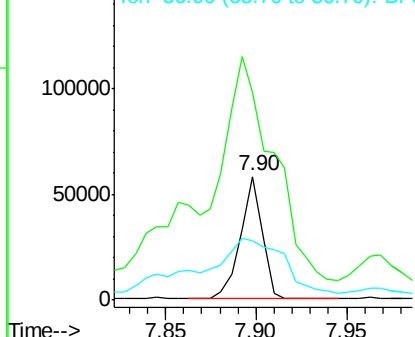
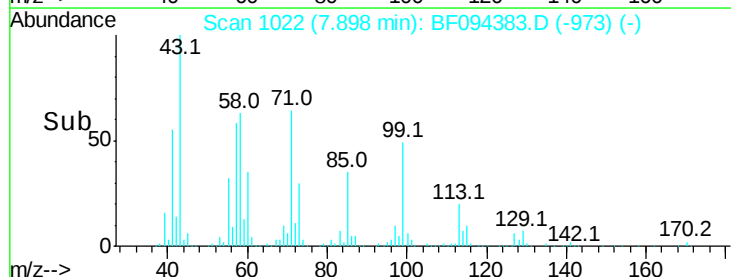


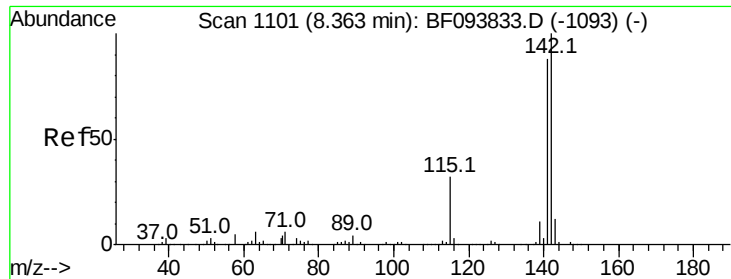
#35
 Caprolactam
 Concen: 23.54 ng
 RT: 7.90 min Scan# 1022
 Delta R.T. -0.01 min
 Lab File: BF094383.D
 Acq: 12 Apr 2017 8:52

Tgt Ion:	113	Resp:	48721
Ion	Ratio	Lower	Upper
113	100		
55	167.3	150.2	190.2
56	47.4	107.8	147.8#



Abundance Ion 113.00 (112.70 to 113.70): E
 Ion 55.00 (54.70 to 55.70): BF0
 Ion 56.00 (55.70 to 56.70): BF0

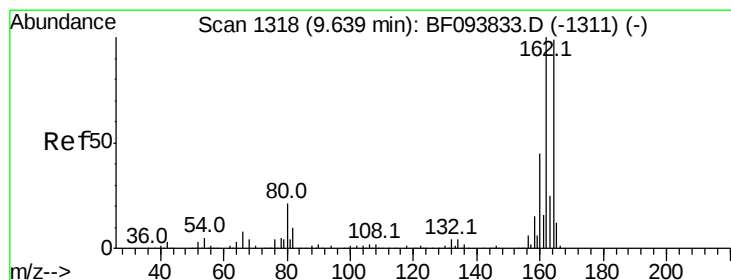
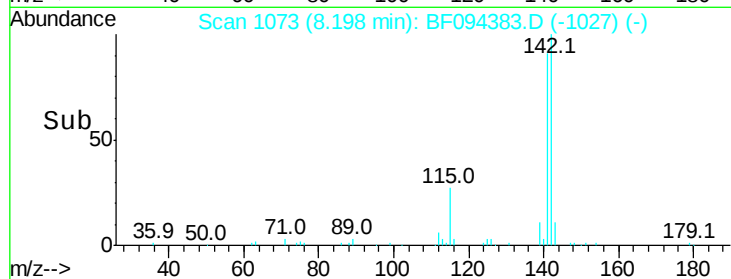
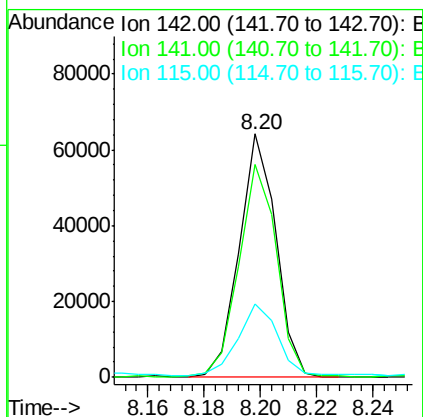
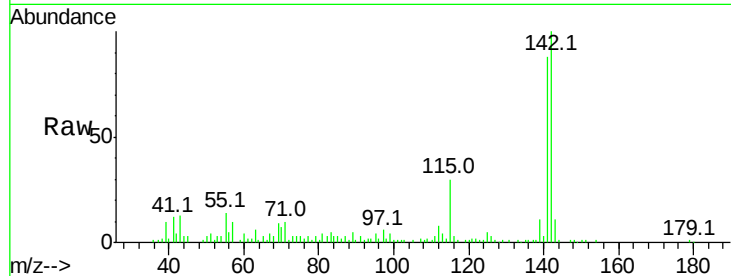




#37
 2-Methylnaphthalene
 Concen: 3.70 ng
 RT: 8.20 min Scan# 1073
 Delta R.T. -0.03 min
 Lab File: BF094383.D
 Acq: 12 Apr 2017 8:52

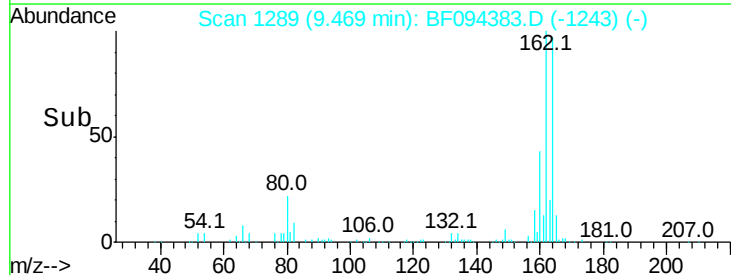
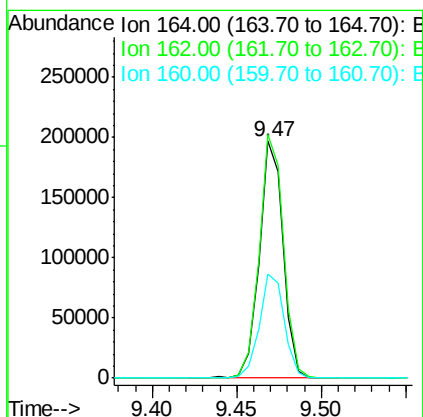
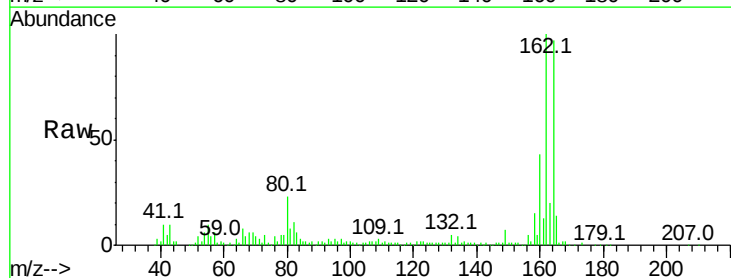
Instrument :
 BNA_F
 ClientSampleId :

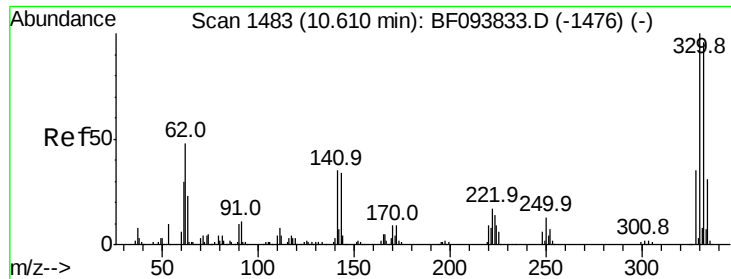
Tot Ion:142 Resp: 57951
 Ion Ratio Lower Upper
 142 100
 141 87.6 71.3 106.9
 115 30.1 27.1 40.7



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.47 min Scan# 1289
 Delta R.T. -0.03 min
 Lab File: BF094383.D
 Acq: 12 Apr 2017 8:52

Tgt Ion:164 Resp: 192338
 Ion Ratio Lower Upper
 164 100
 162 102.9 82.6 123.8
 160 43.8 36.2 54.2

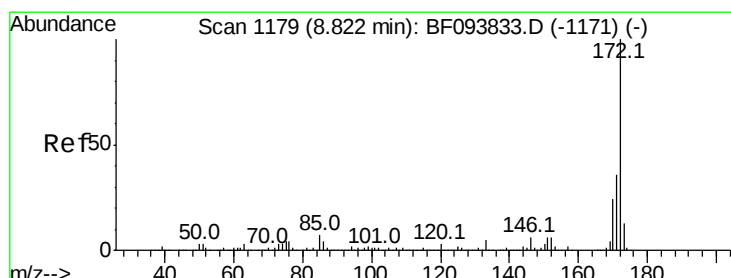
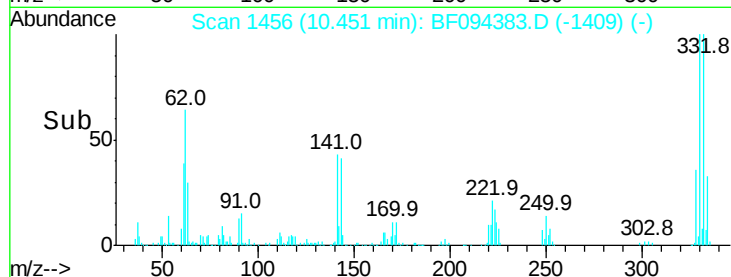
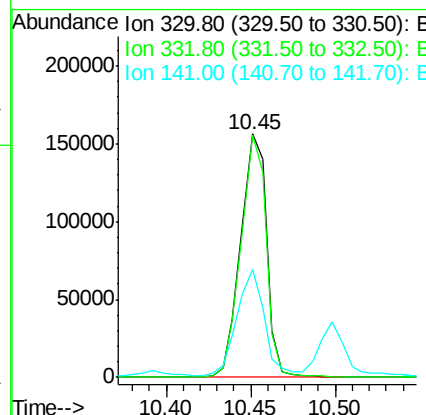
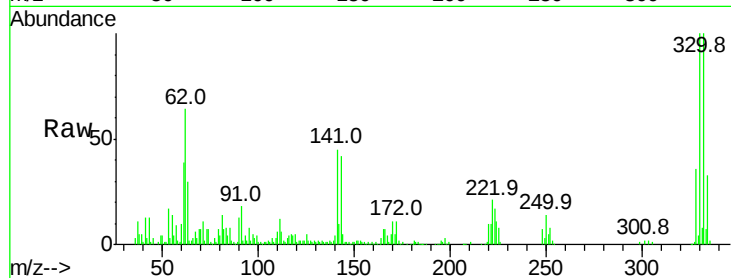




#41
 2,4,6-Tribromophenol
 Concen: 110.94 ng
 RT: 10.45 min Scan# 1456
 Delta R.T. -0.02 min
 Lab File: BF094383.D
 Acq: 12 Apr 2017 8:52

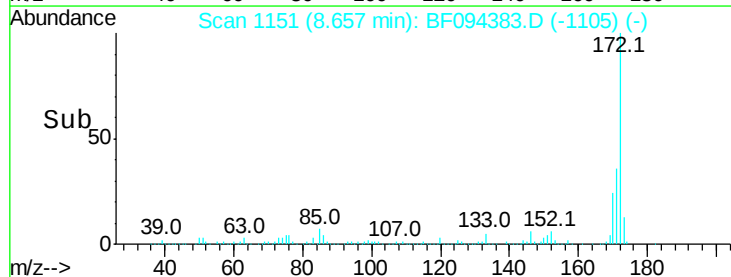
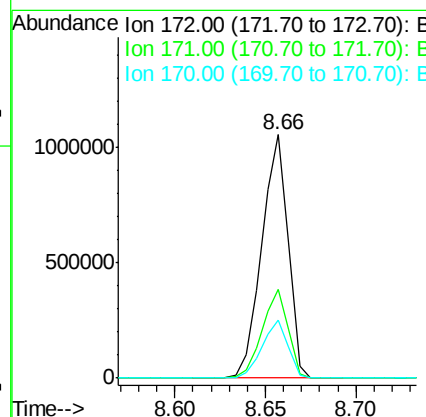
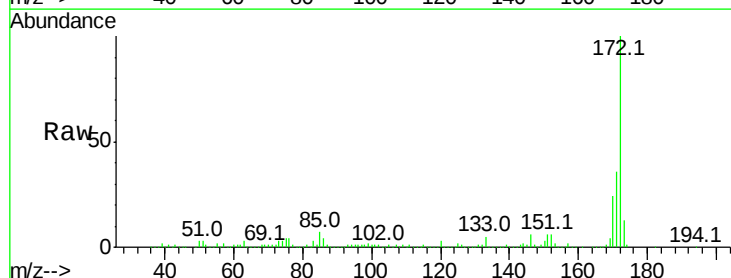
Instrument :
 BNA_F
 ClientSampleId :

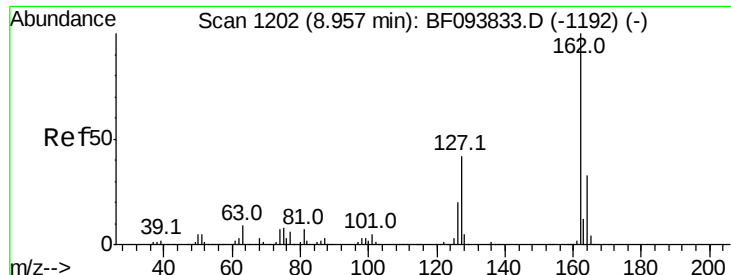
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.6	115.0
141	45.2	31.4	47.2



#44
 2-Fluorobiphenyl
 Concen: 84.28 ng
 RT: 8.66 min Scan# 1151
 Delta R.T. -0.03 min
 Lab File: BF094383.D
 Acq: 12 Apr 2017 8:52

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.6	44.4
170	24.0	19.8	29.8

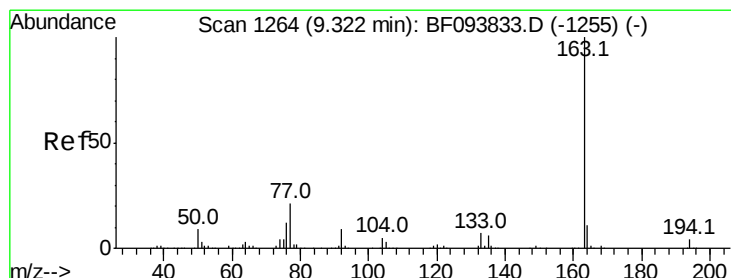
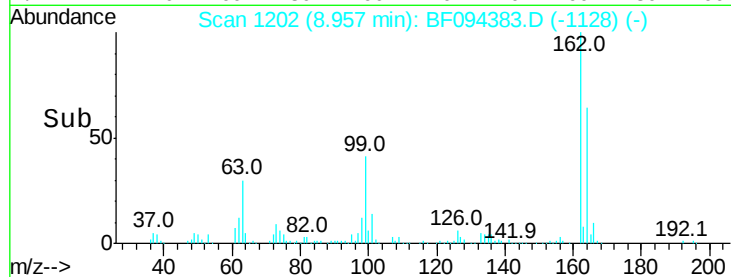
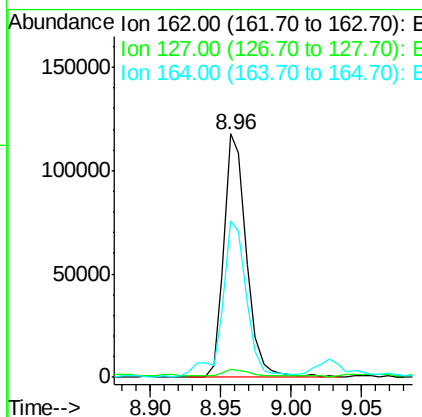
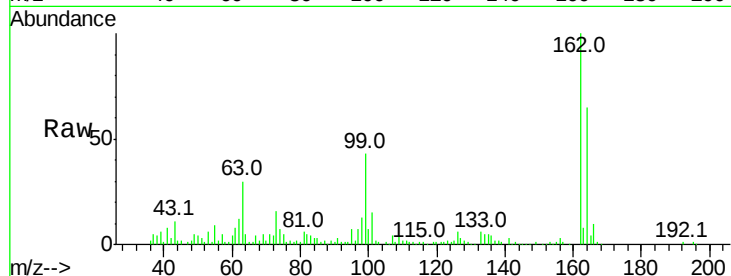




#46
 2-Chloronaphthalene
 Concen: 10.87 ng
 RT: 8.96 min Scan# 1202
 Delta R.T. 0.14 min
 Lab File: BF094383.D
 Acq: 12 Apr 2017 8:52

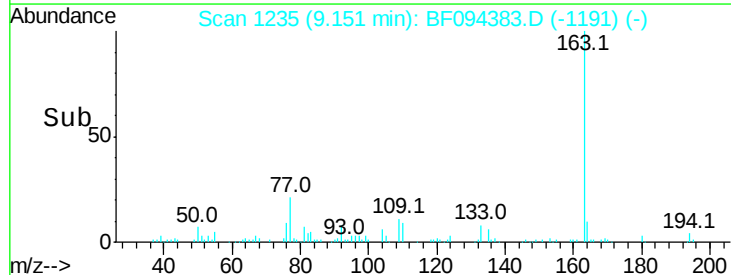
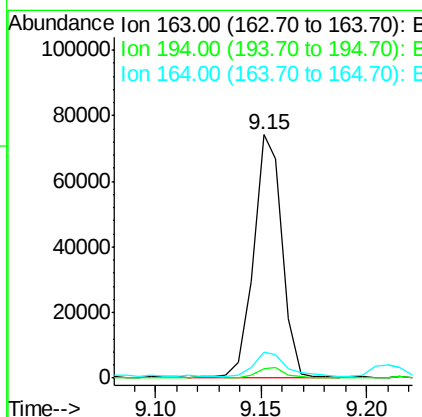
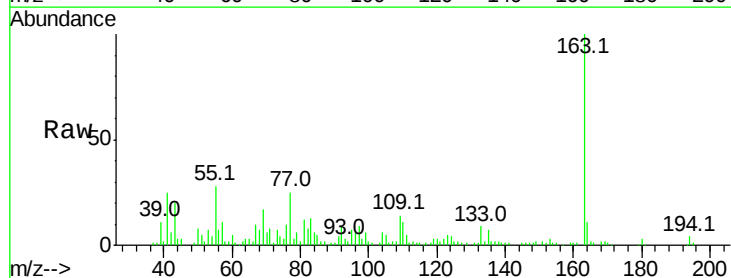
Instrument :
 BNA_F
 ClientSampleId :

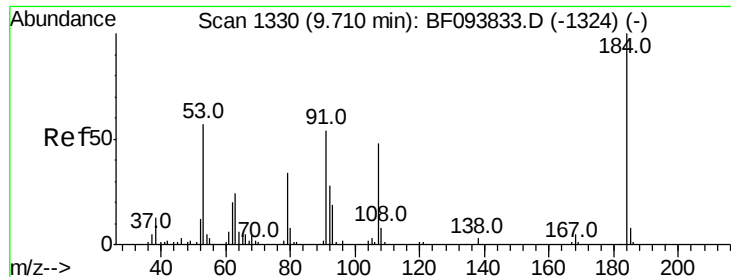
Tot Ion	Ratio	Lower	Upper
162	100		
127	3.4	28.3	42.5#
164	64.6	27.0	40.4#



#49
 Dimethylphthalate
 Concen: 5.08 ng
 RT: 9.15 min Scan# 1235
 Delta R.T. -0.04 min
 Lab File: BF094383.D
 Acq: 12 Apr 2017 8:52

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.0	2.6	4.0
164	10.6	8.4	12.6

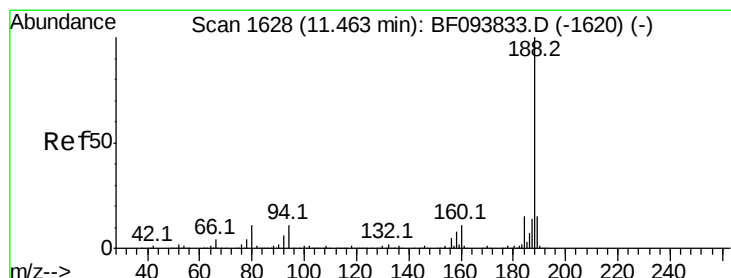
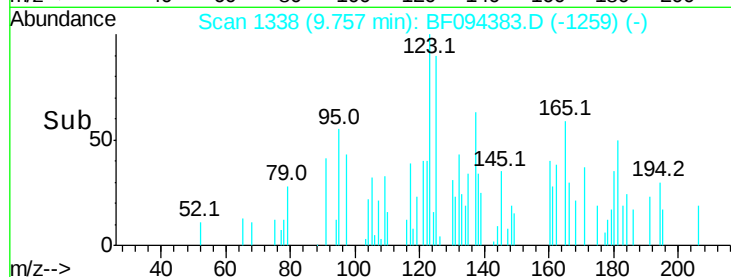
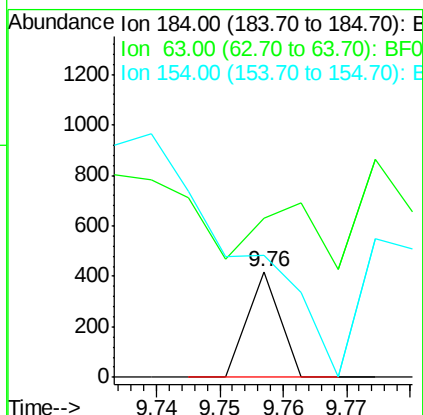
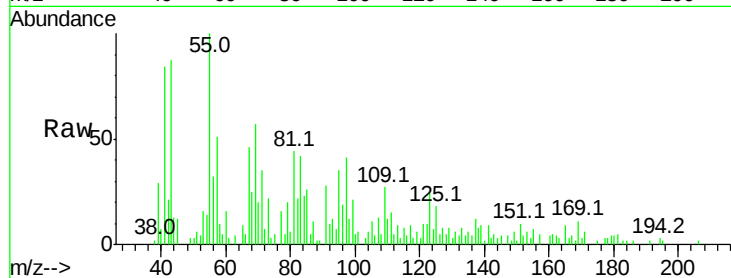




#53
 2,4-Dinitrophenol
 Concen: 4.75 ng
 RT: 9.76 min Scan# 1338
 Delta R.T. 0.16 min
 Lab File: BF094383.D
 Acq: 12 Apr 2017 8:52

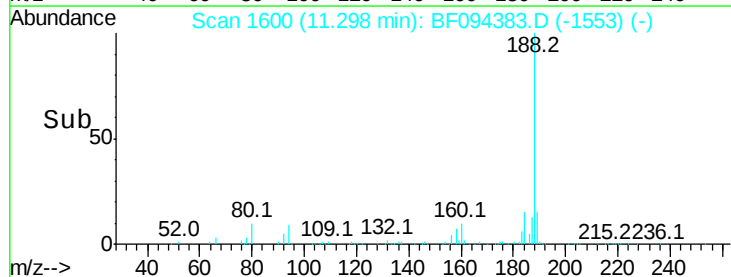
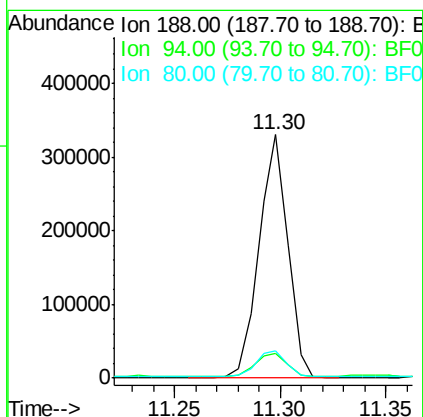
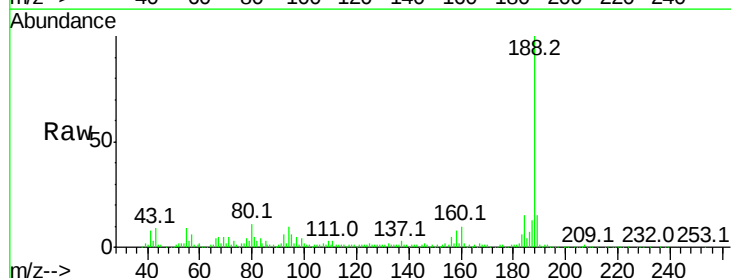
Instrument :
 BNA_F
 ClientSampleId :

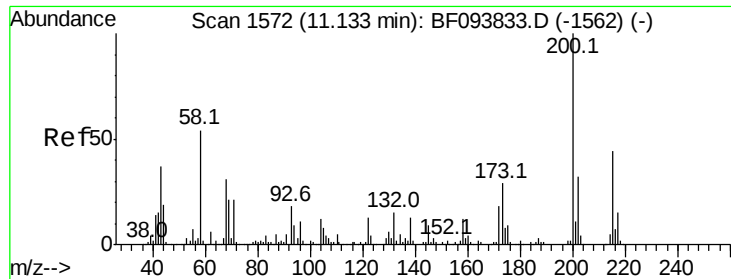
Tot Ion:184 Resp: 148
 Ion Ratio Lower Upper
 184 100
 63 150.2 62.7 94.1#
 154 115.1 81.1 121.7



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.30 min Scan# 1600
 Delta R.T. -0.02 min
 Lab File: BF094383.D
 Acq: 12 Apr 2017 8:52

Tgt Ion:188 Resp: 312289
 Ion Ratio Lower Upper
 188 100
 94 10.0 9.4 14.2
 80 11.4 10.2 15.2





#68

Atrazine

Concen: 2.58 ng

RT: 11.05 min Scan# 1558

Delta R.T. 0.05 min

Lab File: BF094383.D

Acq: 12 Apr 2017 8:52

Instrument :

BNA_F

ClientSampleId :

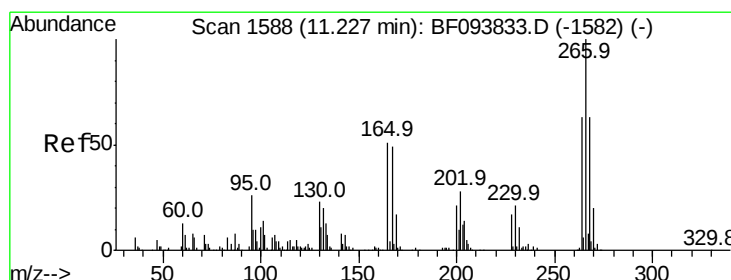
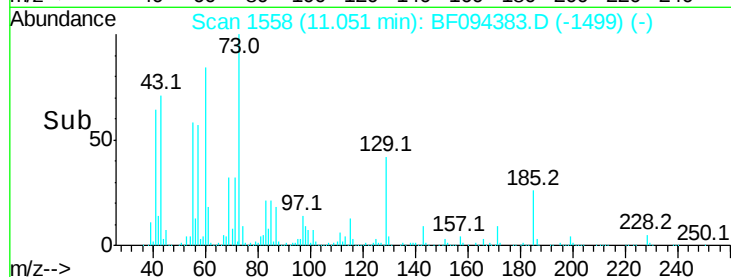
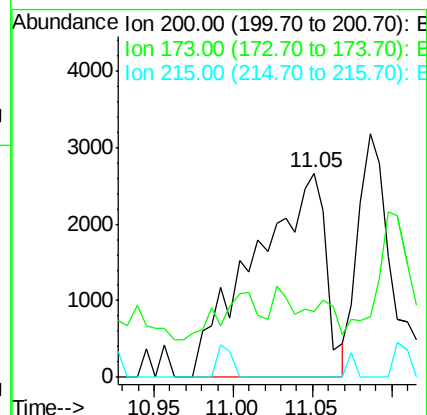
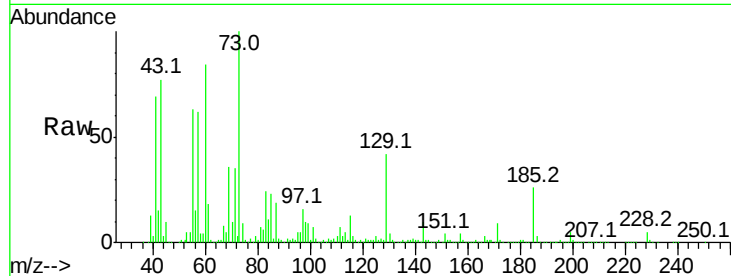
Tot Ion:200 Resp: 8347

Ion Ratio Lower Upper

200 100

173 32.2 6.3 46.3

215 0.0 27.2 67.2#



#69

Pentachlorophenol

Concen: 10.10 ng

RT: 11.09 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF094383.D

Acq: 12 Apr 2017 8:52

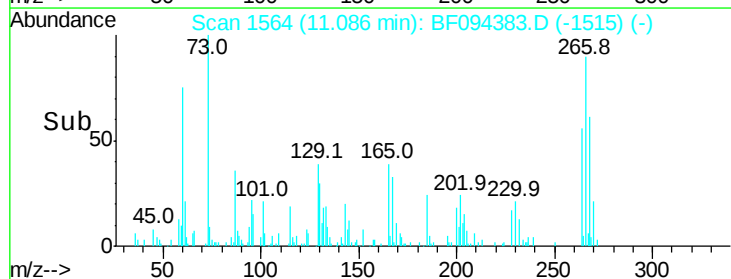
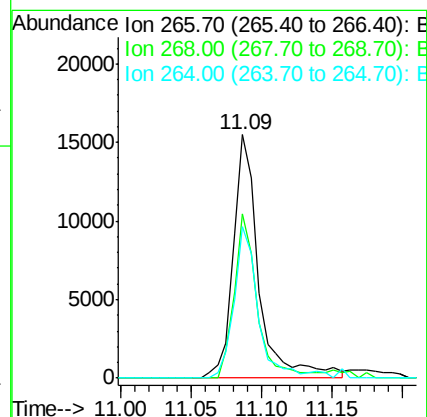
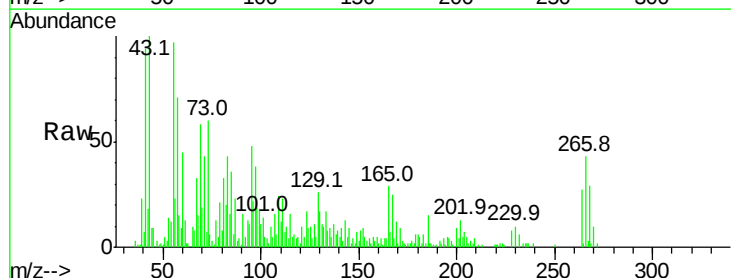
Tgt Ion:266 Resp: 19538

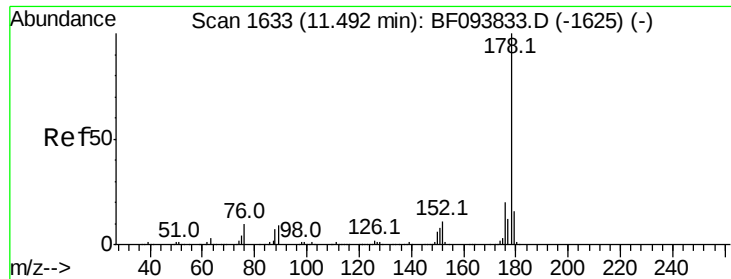
Ion Ratio Lower Upper

266 100

268 67.5 51.1 76.7

264 62.3 51.7 77.5





#70

Phenanthrene

Concen: 5.32 ng

RT: 11.32 min Scan# 1604

Delta R.T. -0.03 min

Lab File: BF094383.D

Acq: 12 Apr 2017 8:52

Instrument :

BNA_F

ClientSampleId :

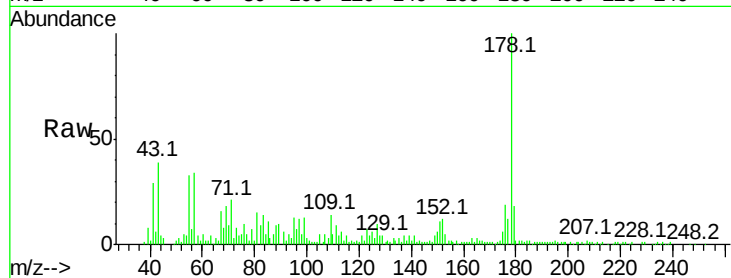
Tot Ion:178 Resp: 92387

Ion Ratio Lower Upper

178 100

176 18.9 16.2 24.4

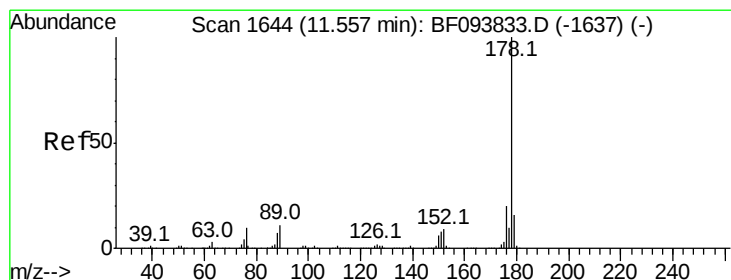
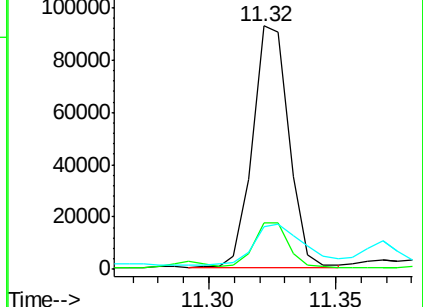
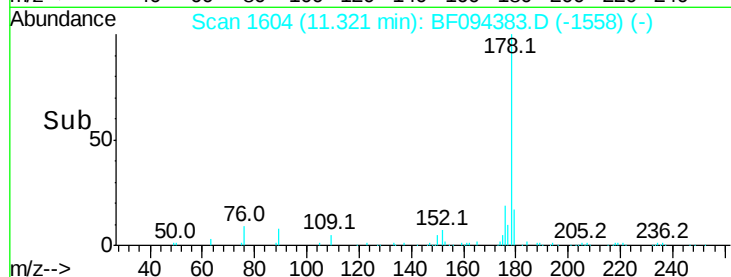
179 17.7 12.6 19.0



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



#71

Anthracene

Concen: 5.17 ng

RT: 11.32 min Scan# 1604

Delta R.T. -0.09 min

Lab File: BF094383.D

Acq: 12 Apr 2017 8:52

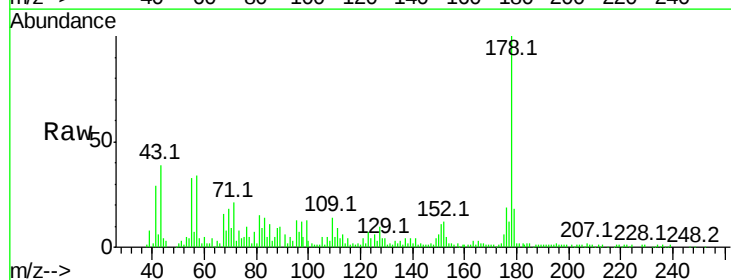
Tgt Ion:178 Resp: 92387

Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.8

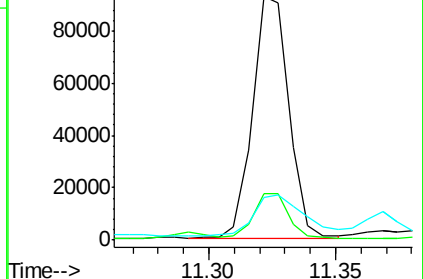
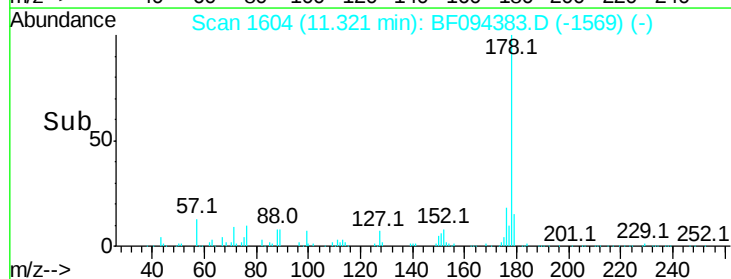
179 17.7 12.7 19.1

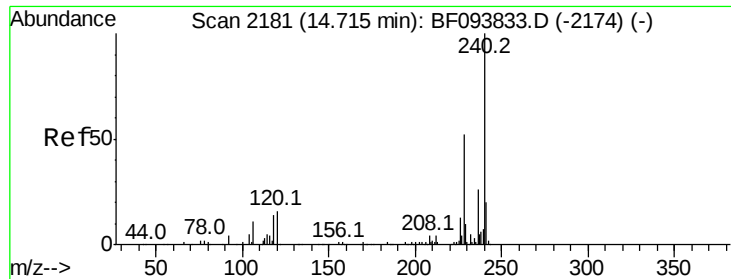


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.60 min Scan# 2161

Delta R.T. 0.02 min

Lab File: BF094383.D

Acq: 12 Apr 2017 8:52

Instrument :

BNA_F

ClientSampled :

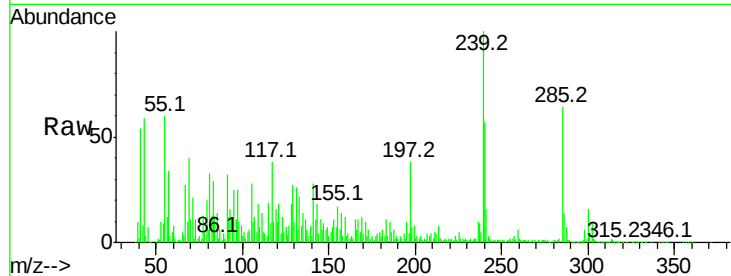
Tot Ion:240 Resp: 676713

Ion Ratio Lower Upper

240 100

120 16.8 5.8 8.8#

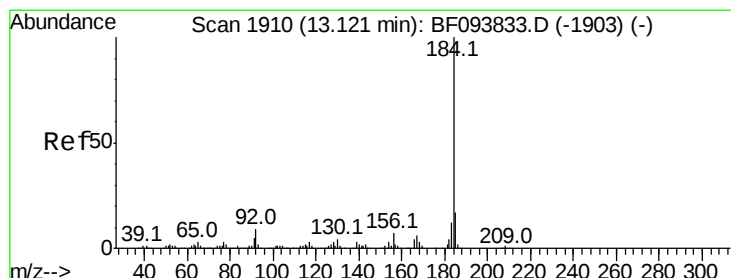
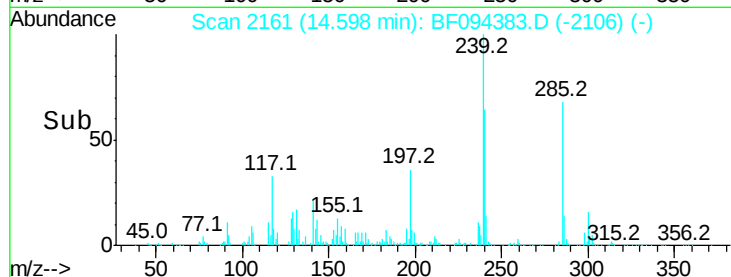
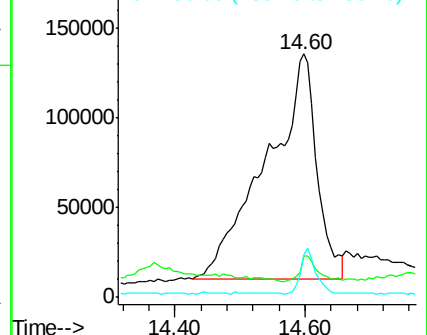
236 17.7 20.5 30.7#



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



#76

Benzidine

Concen: 2.10 ng

RT: 12.77 min Scan# 1851

Delta R.T. -0.21 min

Lab File: BF094383.D

Acq: 12 Apr 2017 8:52

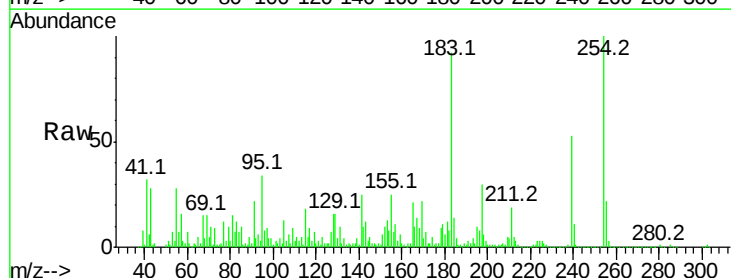
Tgt Ion:184 Resp: 56329

Ion Ratio Lower Upper

184 100

185 29.3 15.5 23.3#

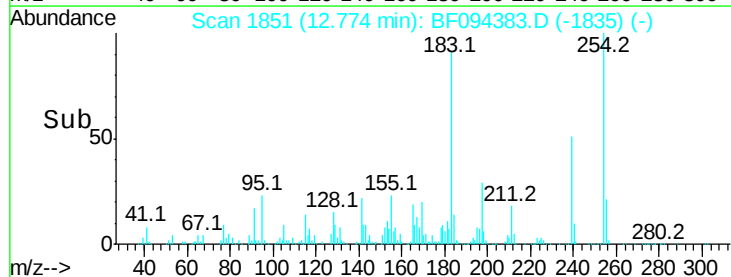
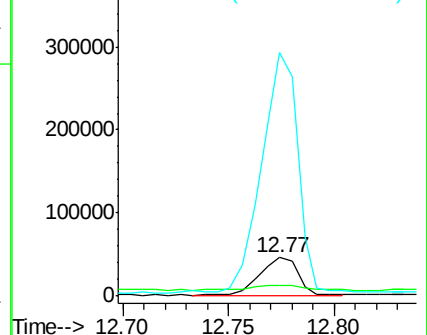
183 634.8 9.8 14.6#

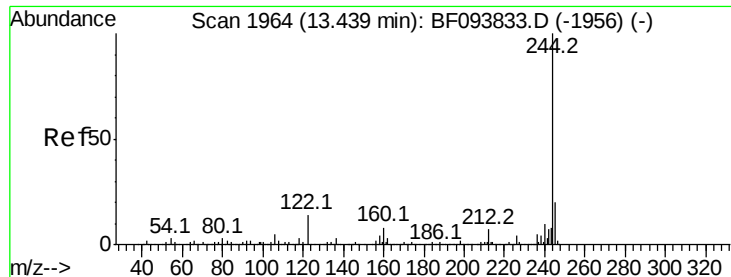


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 18.04 ng

RT: 13.31 min Scan# 1942

Delta R.T. 0.01 min

Lab File: BF094383.D

Acq: 12 Apr 2017 8:52

Instrument :

BNA_F

ClientSampled :

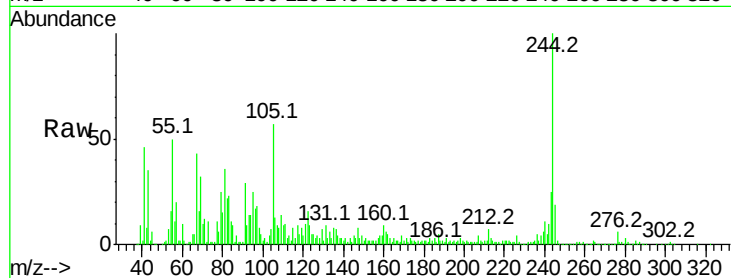
Tot Ion:244 Resp: 544726

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

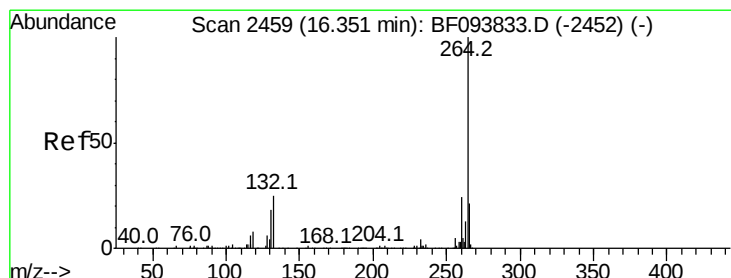
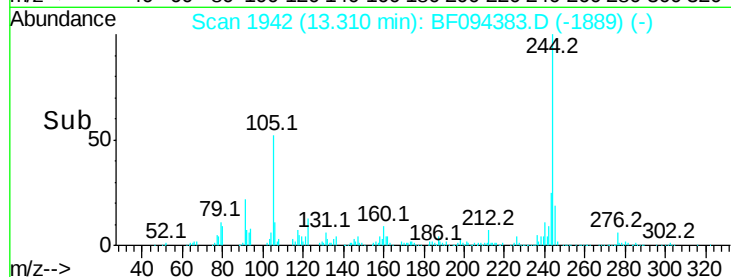
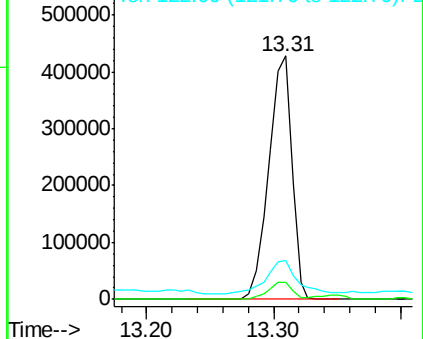
122 16.0 10.3 15.5#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 16.23 min Scan# 2438

Delta R.T. 0.04 min

Lab File: BF094383.D

Acq: 12 Apr 2017 8:52

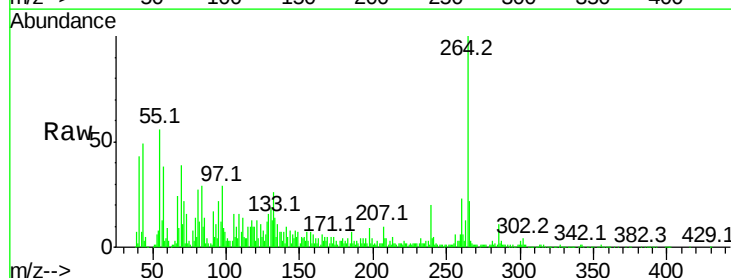
Tgt Ion:264 Resp: 161196

Ion Ratio Lower Upper

264 100

260 23.4 19.5 29.3

265 21.9 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

