

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050917\
 Data File : BF095046.D
 Acq On : 10 May 2017 4:08
 Operator : SJ/MA
 Sample : I2970-01 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 10 05:19:39 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:24:51 2017
 Response via : Initial Calibration

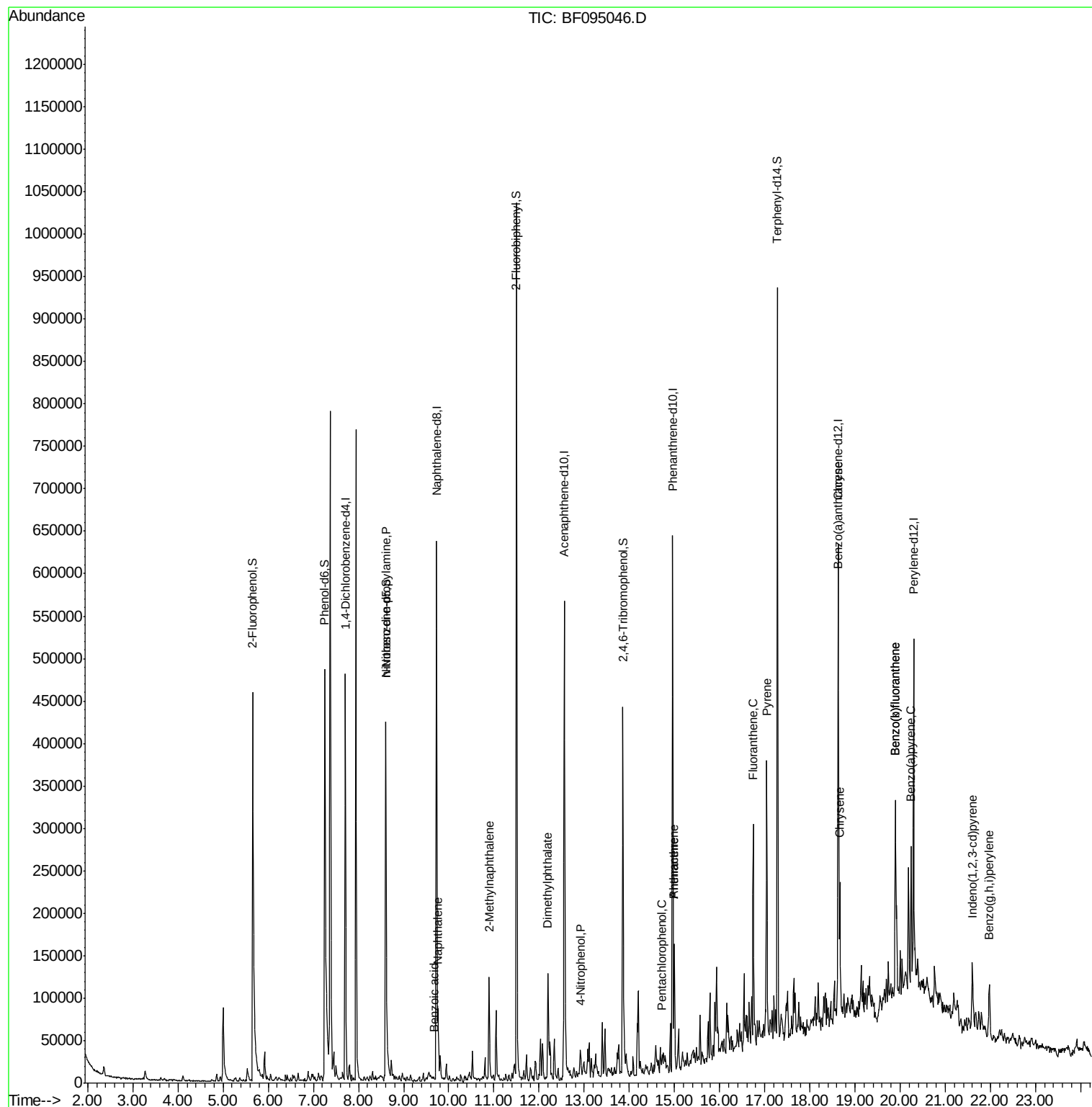
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.71	152	97828	20.00	ng	-0.02
21) Naphthalene-d8	9.73	136	409189	20.00	ng	-0.02
38) Acenaphthene-d10	12.56	164	165290	20.00	ng	-0.02
63) Phenanthrene-d10	14.96	188	292749	20.00	ng	-0.02
75) Chrysene-d12	18.63	240	207183	20.00	ng	-0.02
86) Perylene-d12	20.30	264	180993	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.65	112	308001	52.49	ng	-0.02
7) Phenol-d6	7.25	99	405249	57.56	ng	-0.02
23) Nitrobenzene-d5	8.61	82	239714	36.94	ng	-0.03
41) 2,4,6-Tribromophenol	13.86	330	71604	52.90	ng	-0.02
44) 2-Fluorobiphenyl	11.50	172	436279	37.99	ng	-0.03
78) Terphenyl-d14	17.28	244	310651	33.03	ng	-0.03
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	8.60	70	30031	6.31	ng	# 76
31) Naphthalene	9.77	128	52281	2.54	ng	98
32) Benzoic acid	9.67	122	123	5.11	ng	92
37) 2-Methylnaphthalene	10.90	142	50561	3.75	ng	98
49) Dimethylphthalate	12.20	163	78428	5.78	ng	# 97
55) 4-Nitrophenol	12.91	139	5769	3.23	ng	# 25
69) Pentachlorophenol	14.73	266	2931	7.76	ng	91
70) Phenanthrene	14.99	178	82123	4.88	ng	97
71) Anthracene	14.99	178	82123	4.78	ng	98
74) Fluoranthene	16.74	202	133433	7.73	ng	97
77) Pyrene	17.04	202	135312	8.73	ng	97
80) Benzo(a)anthracene	18.62	228	67757	5.62	ng	93
82) Chrysene	18.67	228	76774	6.58	ng	95
85) Indeno(1,2,3-cd)pyrene	21.60	276	43733	4.62	ng	93
87) Benzo(b)fluoranthene	19.89	252	152387	13.63	ng	# 96
88) Benzo(k)fluoranthene	19.89	252	152387	14.13	ng	97
89) Benzo(a)pyrene	20.24	252	69565	6.74	ng	98
91) Benzo(g,h,i)perylene	21.98	276	40549	4.85	ng	# 92

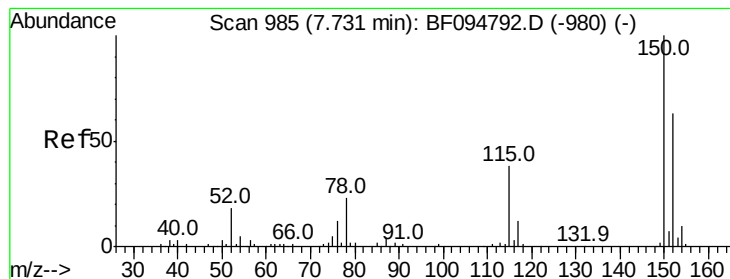
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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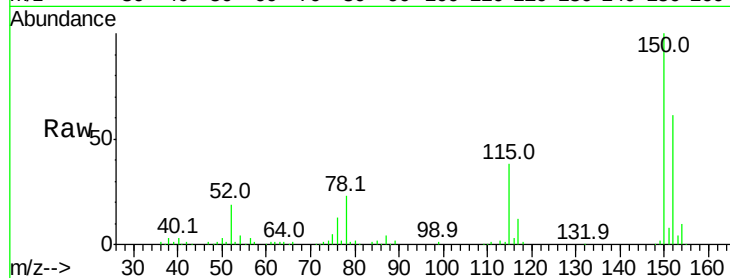


#1

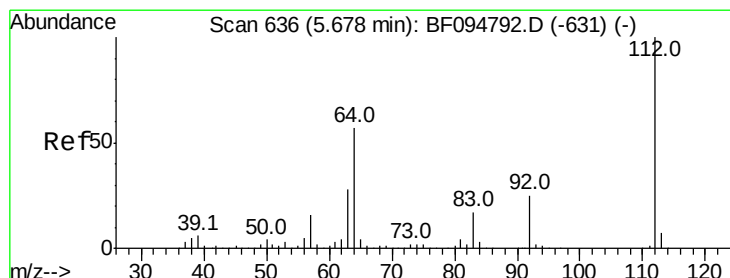
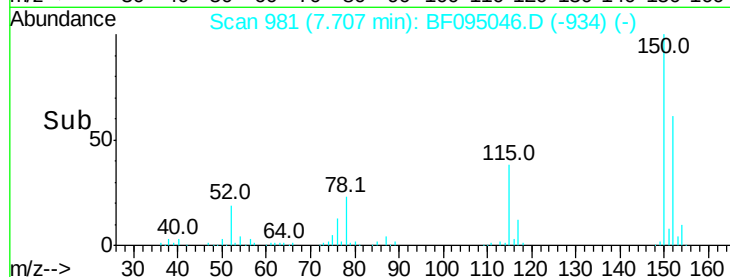
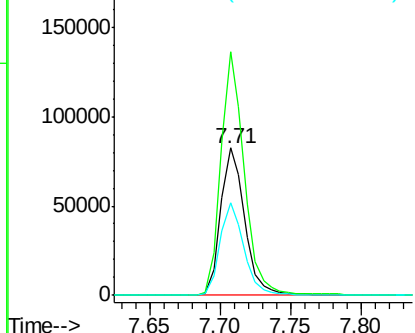
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.71 min Scan# 981
Delta R.T. -0.02 min
Lab File: BF095046.D
Acq: 10 May 2017 4:08

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 97828
Ion Ratio Lower Upper
152 100
150 165.1 126.2 189.2
115 62.4 52.2 78.2



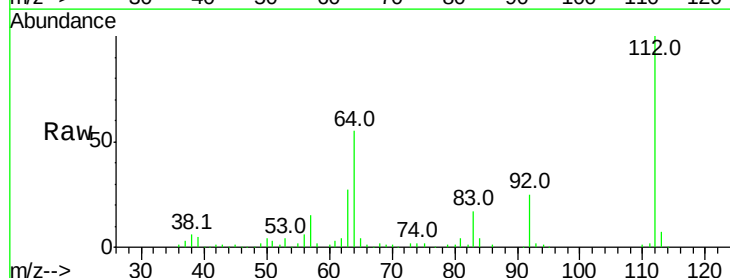
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



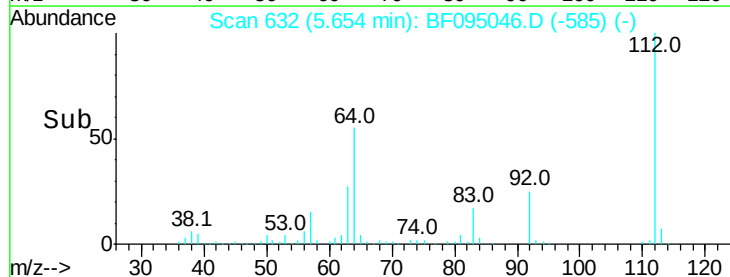
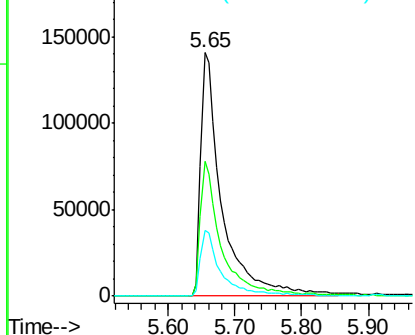
#5

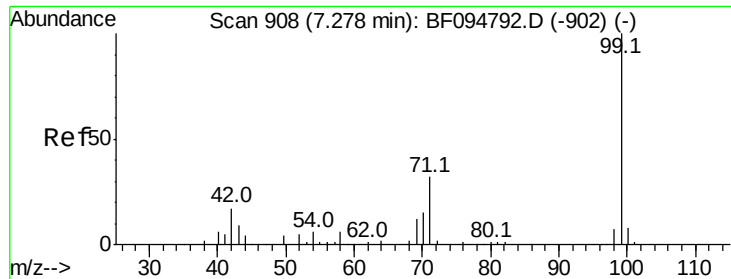
2-Fluorophenol
Concen: 52.49 ng
RT: 5.65 min Scan# 632
Delta R.T. -0.02 min
Lab File: BF095046.D
Acq: 10 May 2017 4:08

Tgt Ion:112 Resp: 308001
Ion Ratio Lower Upper
112 100
64 55.4 46.0 69.0
63 26.8 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: 57.56 ng

RT: 7.25 min Scan# 904

Delta R.T. -0.02 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

Instrument :

BNA_F

ClientSampled :

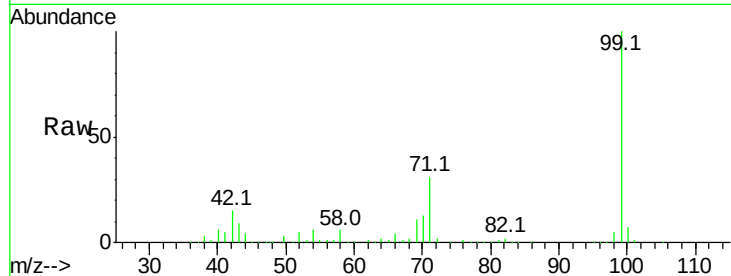
Tot Ion: 99 Resp: 405249

Ion Ratio Lower Upper

99 100

42 15.2 13.5 20.3

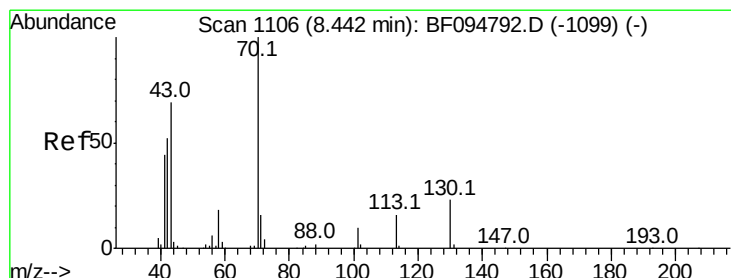
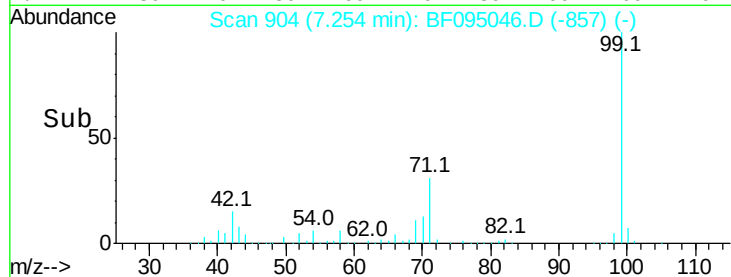
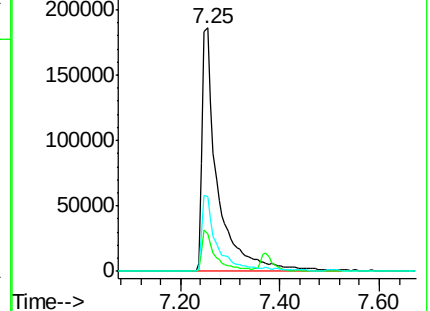
71 30.5 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 6.31 ng

RT: 8.60 min Scan# 1133

Delta R.T. 0.16 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

Tgt Ion: 70 Resp: 30031

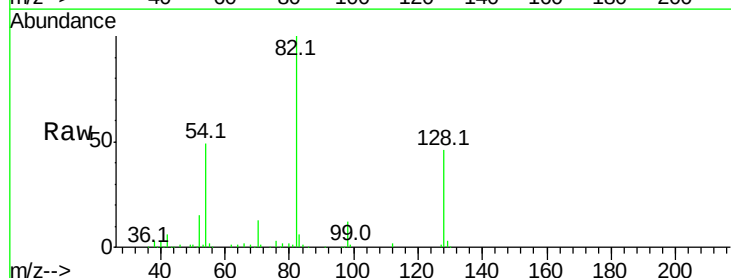
Ion Ratio Lower Upper

70 100

42 44.9 47.2 70.8#

101 0.0 7.2 10.8#

130 3.0 15.9 23.9#

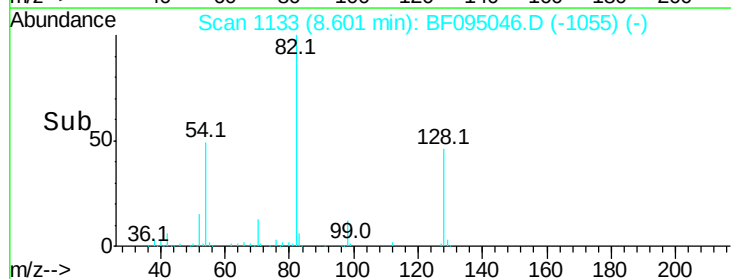
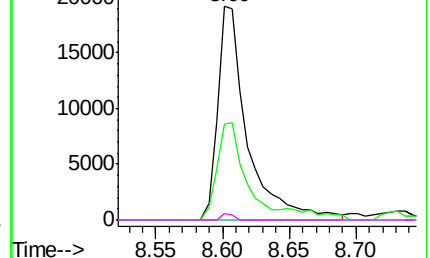


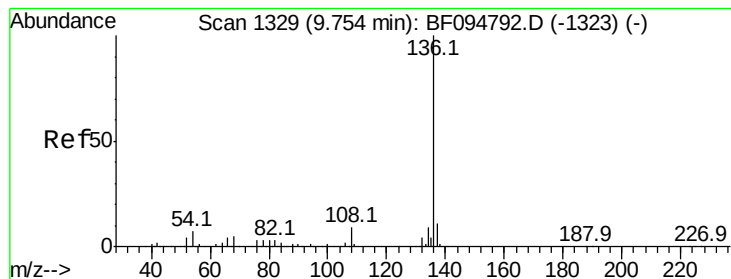
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.73 min Scan# 1325

Delta R.T. -0.02 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 409189

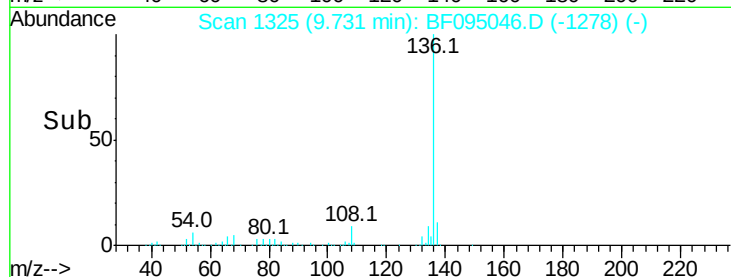
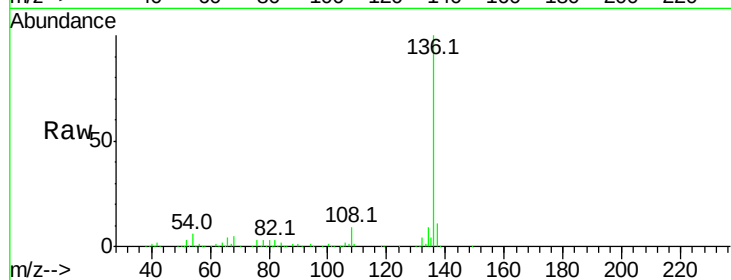
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 6.0 4.9 7.3

68 5.1 4.1 6.1

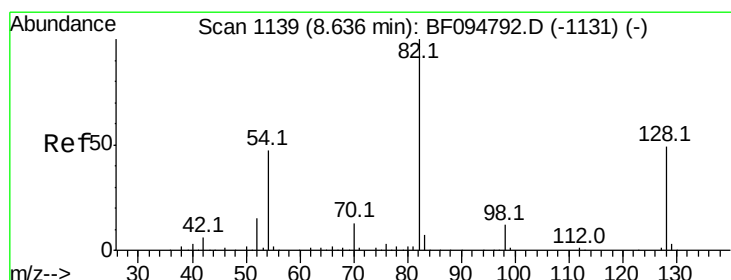
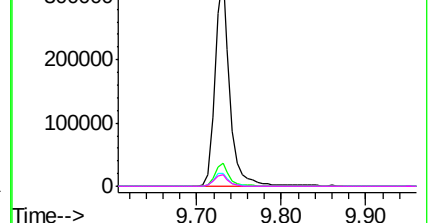


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 36.94 ng

RT: 8.61 min Scan# 1134

Delta R.T. -0.03 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

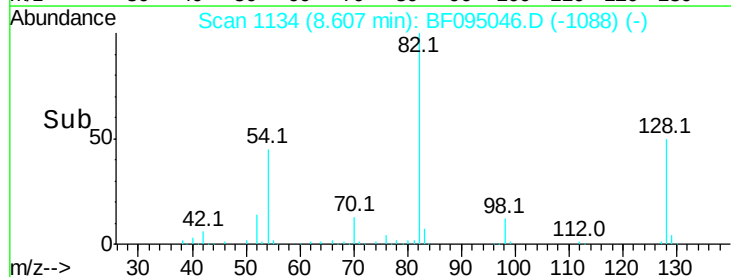
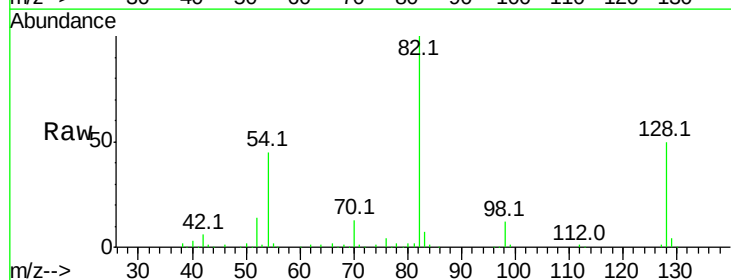
Tgt Ion: 82 Resp: 239714

Ion Ratio Lower Upper

82 100

128 49.7 34.0 51.0

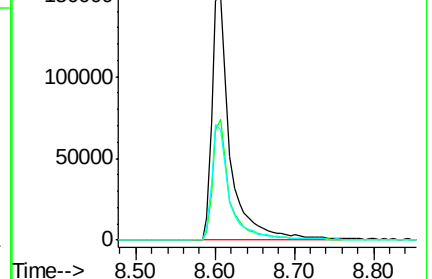
54 45.2 42.2 63.2

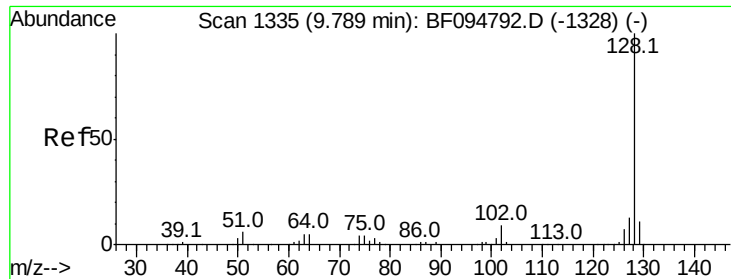


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

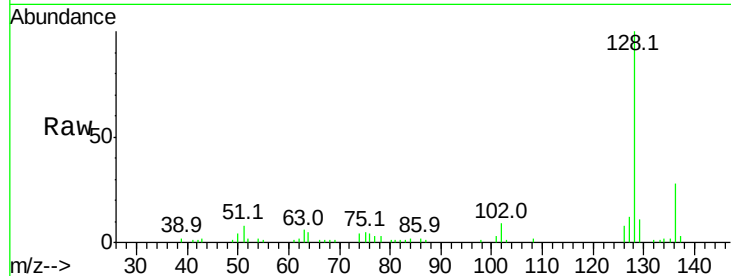




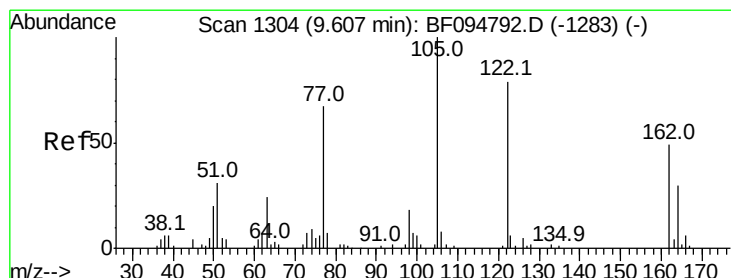
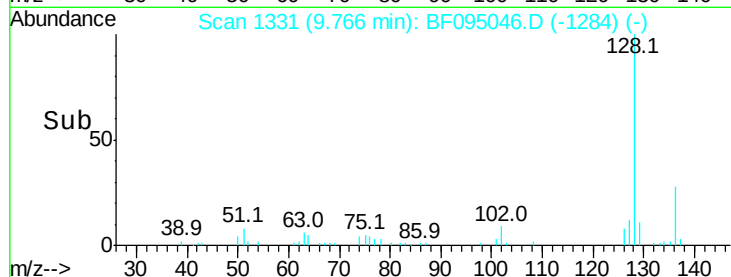
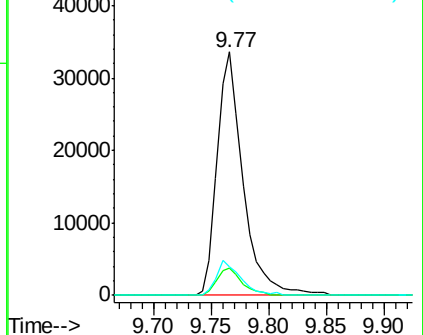
#31
Naphthalene
Concen: 2.54 ng
RT: 9.77 min Scan# 1331
Delta R.T. -0.02 min
Lab File: BF095046.D
Acq: 10 May 2017 4:08

Instrument :
BNA_F
ClientSampleId :

Tot Ion:128 Resp: 52281
Ion Ratio Lower Upper
128 100
129 11.3 9.0 13.6
127 11.7 10.8 16.2

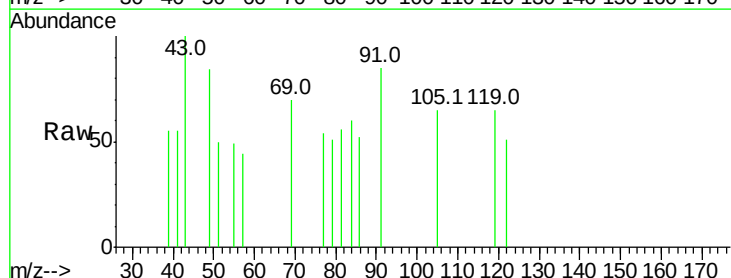


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

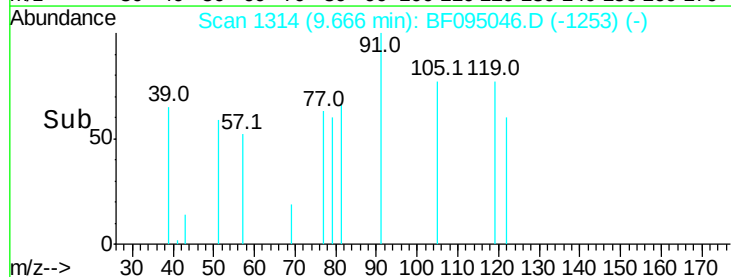
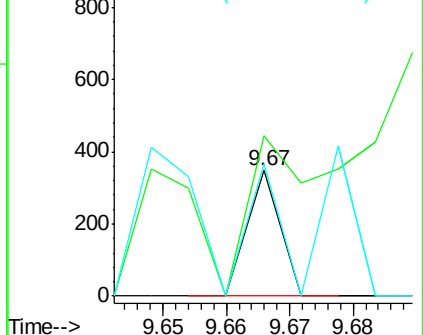


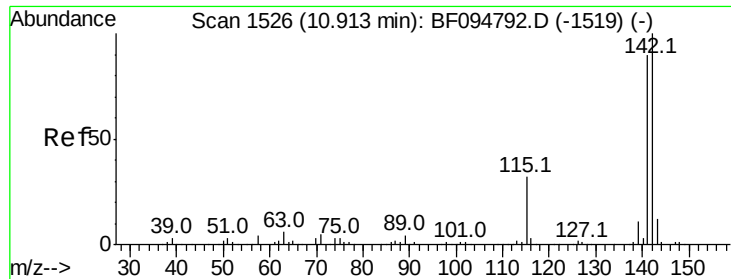
#32
Benzoic acid
Concen: 5.11 ng
RT: 9.67 min Scan# 1314
Delta R.T. 0.06 min
Lab File: BF095046.D
Acq: 10 May 2017 4:08

Tgt Ion:122 Resp: 123
Ion Ratio Lower Upper
122 100
105 128.2 103.3 143.3
77 105.7 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

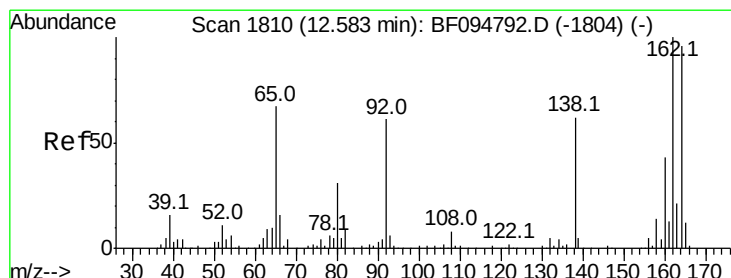
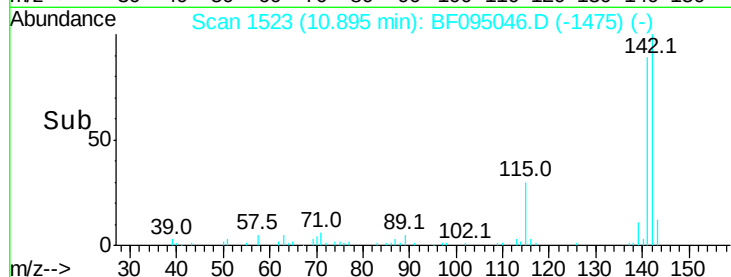
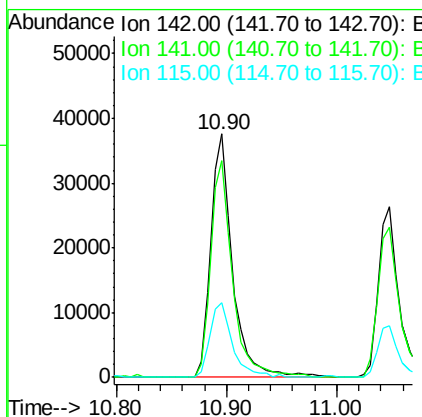
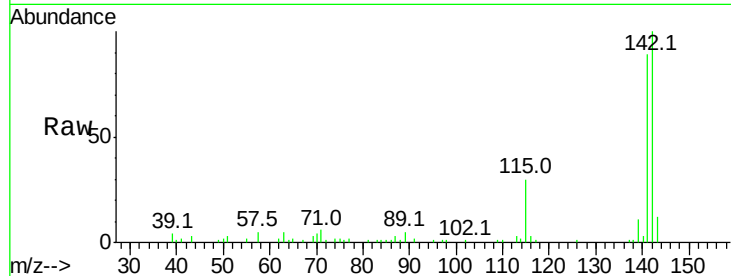




#37
2-Methylnaphthalene
Concen: 3.75 ng
RT: 10.90 min Scan# 1523
Delta R.T. -0.02 min
Lab File: BF095046.D
Acq: 10 May 2017 4:08

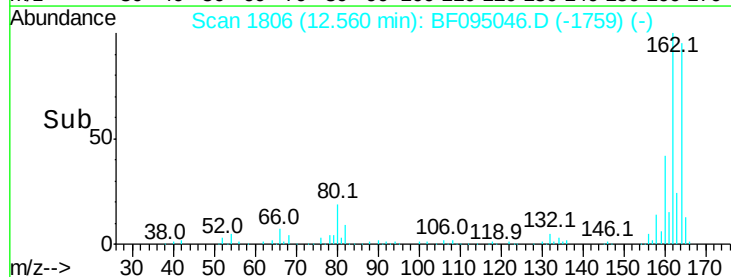
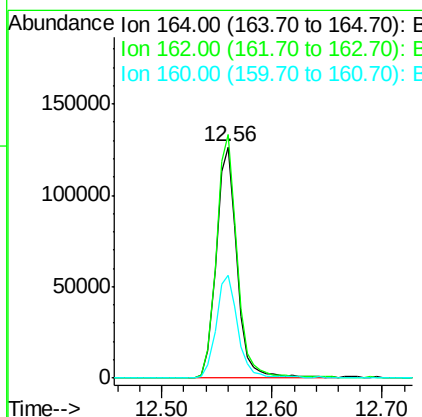
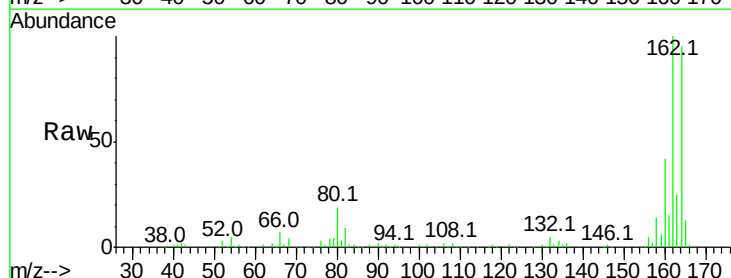
Instrument :
BNA_F
ClientSampled :

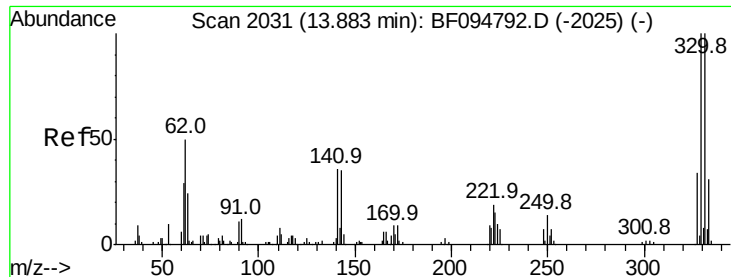
Tot Ion:142 Resp: 50561
Ion Ratio Lower Upper
142 100
141 89.2 71.3 106.9
115 30.4 27.1 40.7



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.56 min Scan# 1806
Delta R.T. -0.02 min
Lab File: BF095046.D
Acq: 10 May 2017 4:08

Tgt Ion:164 Resp: 165290
Ion Ratio Lower Upper
164 100
162 105.2 82.6 123.8
160 44.6 36.2 54.2

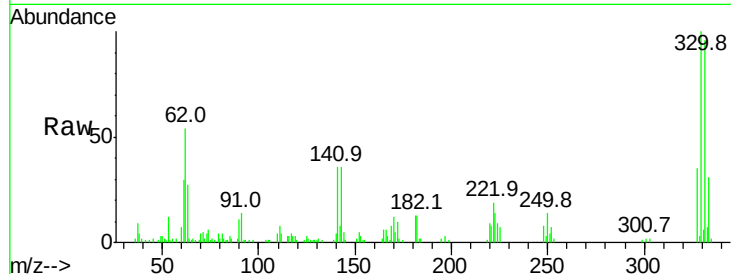




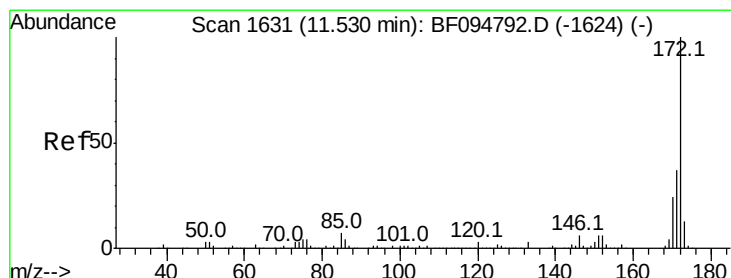
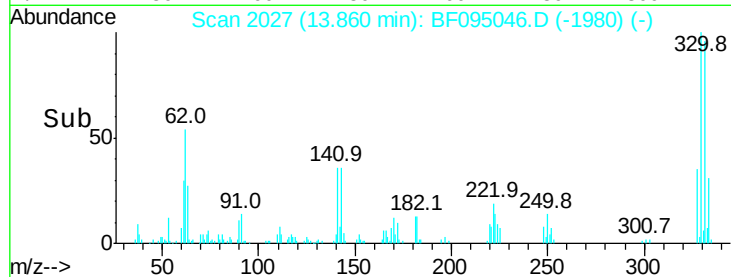
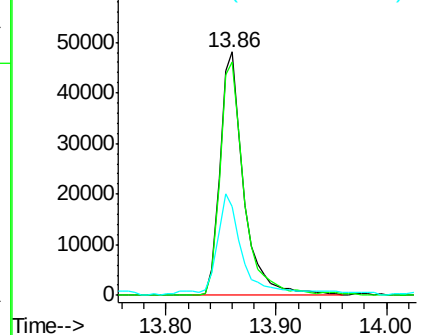
#41
 2,4,6-Tribromophenol
 Concen: 52.90 ng
 RT: 13.86 min Scan# 2027
 Delta R.T. -0.02 min
 Lab File: BF095046.D
 Acq: 10 May 2017 4:08

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 71604
 Ion Ratio Lower Upper
 330 100
 332 96.6 76.6 115.0
 141 38.6 31.4 47.2

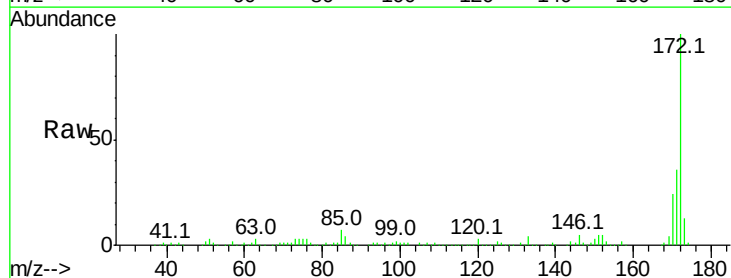


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

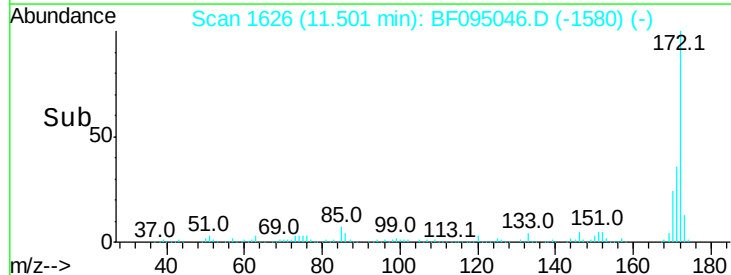
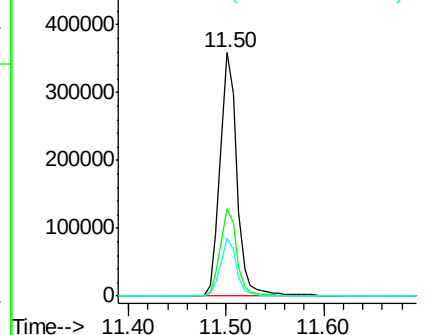


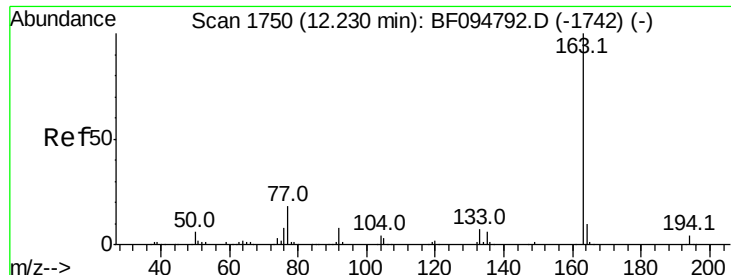
#44
 2-Fluorobiphenyl
 Concen: 37.99 ng
 RT: 11.50 min Scan# 1626
 Delta R.T. -0.03 min
 Lab File: BF095046.D
 Acq: 10 May 2017 4:08

Tgt Ion:172 Resp: 436279
 Ion Ratio Lower Upper
 172 100
 171 35.8 29.6 44.4
 170 23.8 19.8 29.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 5.78 ng

RT: 12.20 min Scan# 1745

Delta R.T. -0.03 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

Instrument :

BNA_F

ClientSampleId :

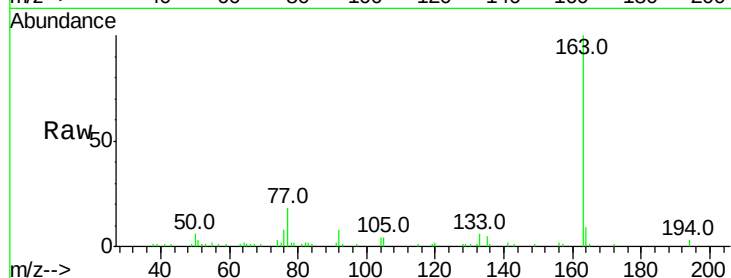
Tot Ion:163 Resp: 78428

Ion Ratio Lower Upper

163 100

194 2.6 2.6 4.0#

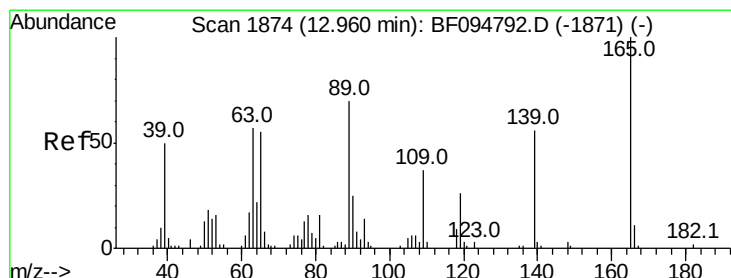
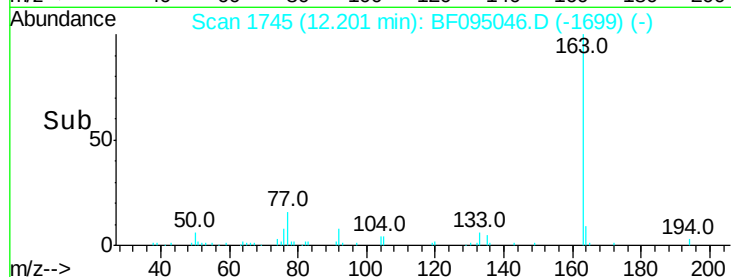
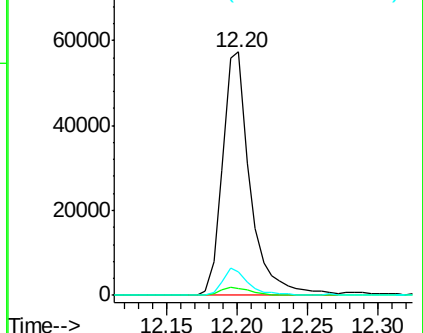
164 9.4 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#55

4-Nitrophenol

Concen: 3.23 ng

RT: 12.91 min Scan# 1866

Delta R.T. -0.05 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

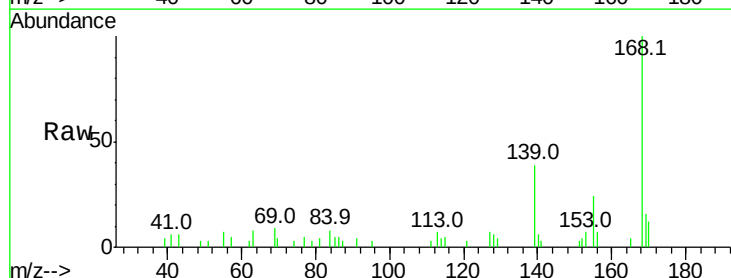
Tgt Ion:139 Resp: 5769

Ion Ratio Lower Upper

139 100

109 0.0 34.1 74.1#

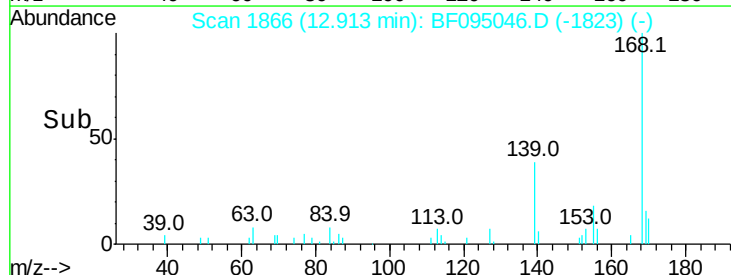
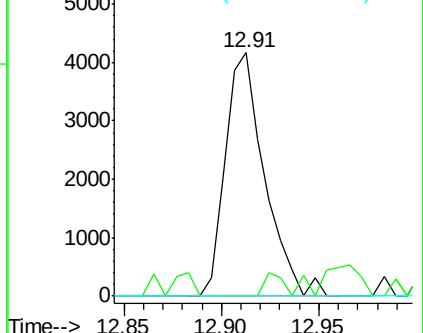
65 0.0 31.4 71.4#

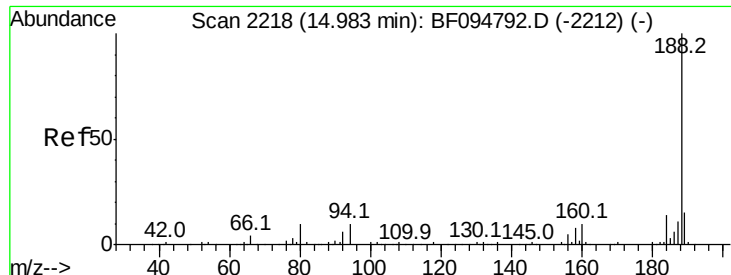


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 14.96 min Scan# 2214

Delta R.T. -0.02 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

Instrument :

BNA_F

ClientSampleId :

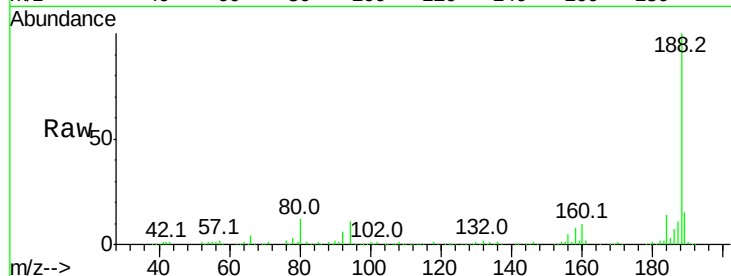
Tot Ion:188 Resp: 292749

Ion Ratio Lower Upper

188 100

94 10.8 9.4 14.2

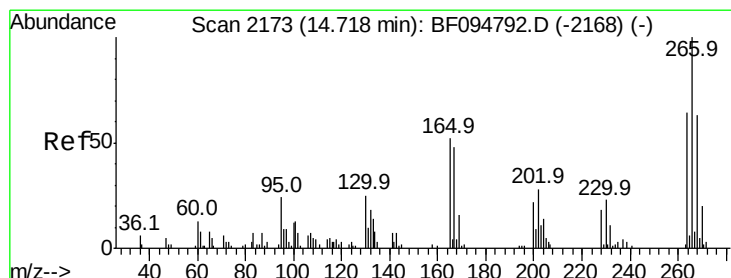
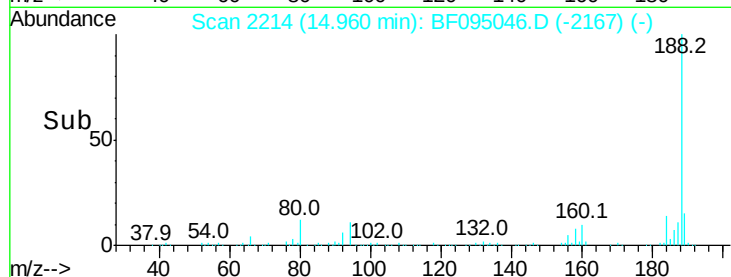
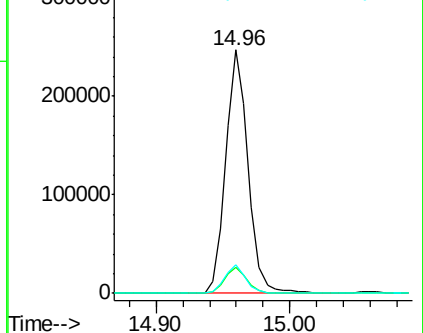
80 11.7 10.2 15.2



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



#69

Pentachlorophenol

Concen: 7.76 ng

RT: 14.73 min Scan# 2175

Delta R.T. 0.01 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

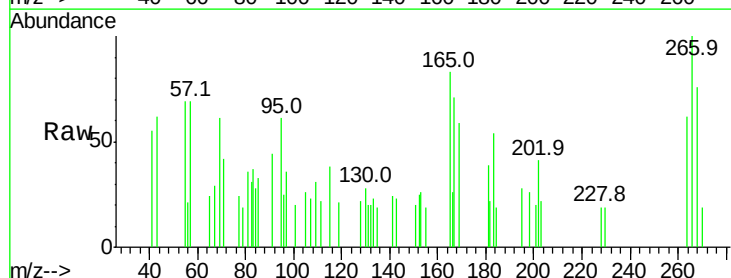
Tgt Ion:266 Resp: 2931

Ion Ratio Lower Upper

266 100

268 76.4 51.1 76.7

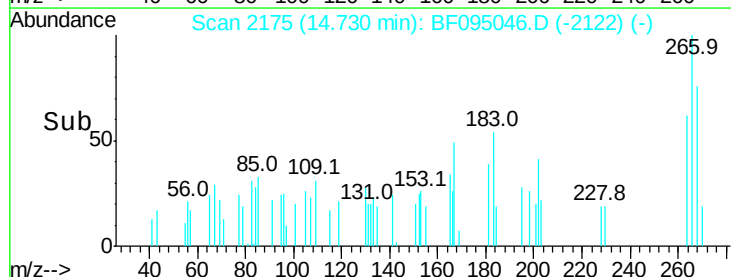
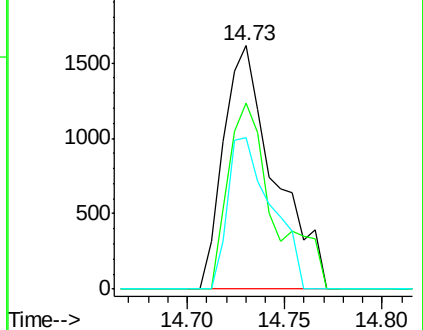
264 62.4 51.7 77.5

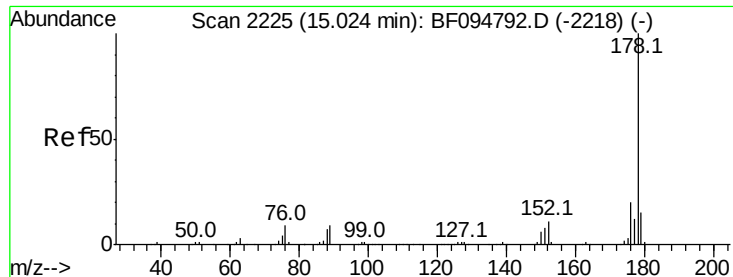


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#70

Phenanthrene

Concen: 4.88 ng

RT: 14.99 min Scan# 2220

Delta R.T. -0.03 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

Instrument :

BNA_F

ClientSampleId :

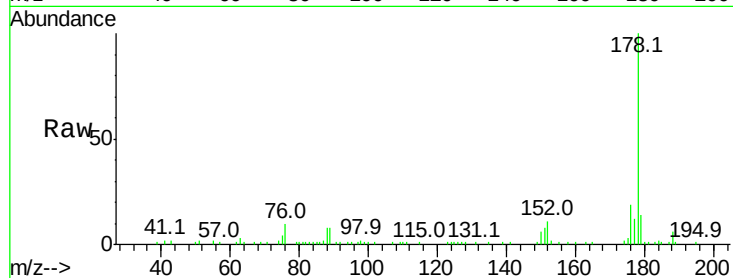
Tot Ion:178 Resp: 82123

Ion Ratio Lower Upper

178 100

176 19.2 16.2 24.4

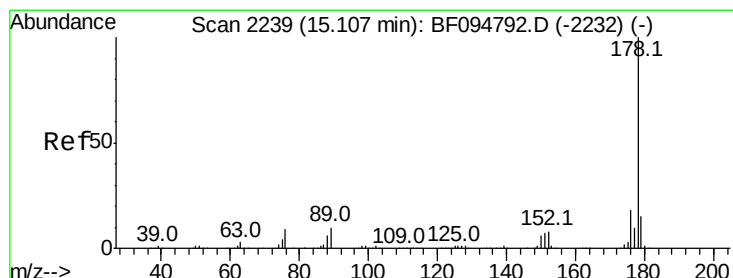
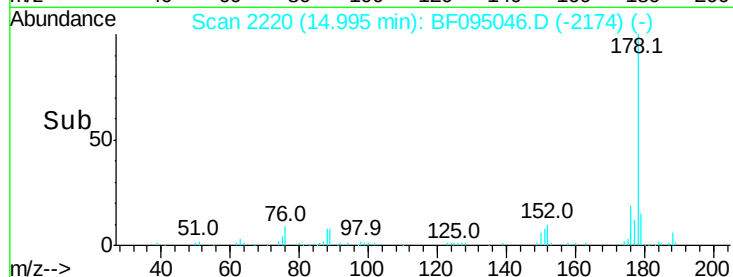
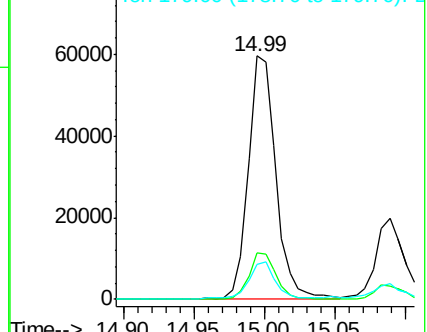
179 14.5 12.6 19.0



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: 4.78 ng

RT: 14.99 min Scan# 2220

Delta R.T. -0.11 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

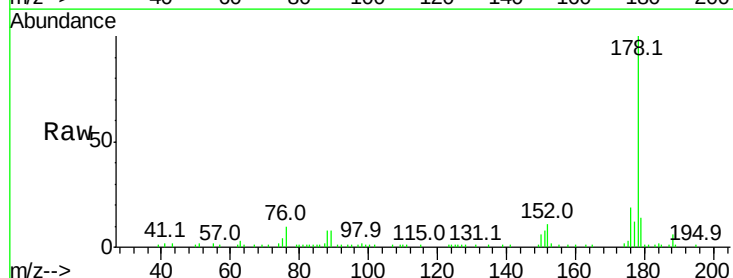
Tgt Ion:178 Resp: 82123

Ion Ratio Lower Upper

178 100

176 19.2 15.8 23.8

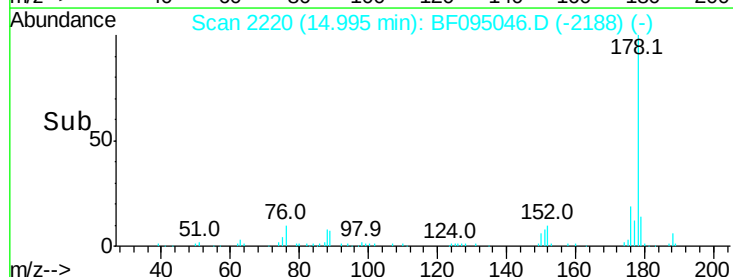
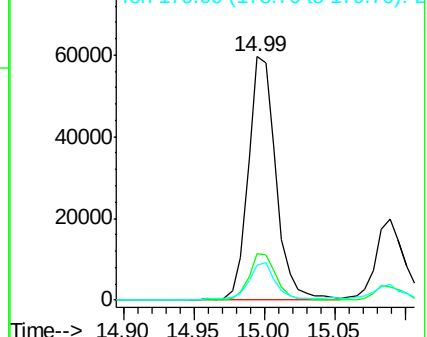
179 14.5 12.7 19.1

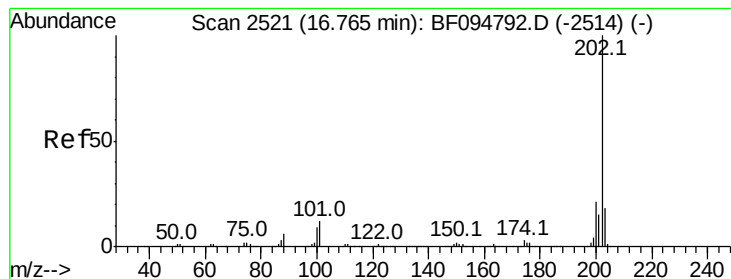


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 7.73 ng

RT: 16.74 min Scan# 2517

Delta R.T. -0.02 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

Instrument :

BNA_F

ClientSampleId :

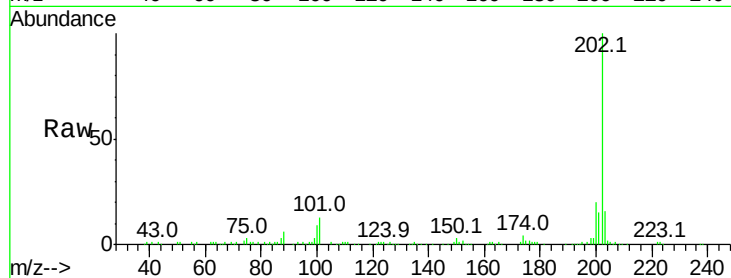
Tot Ion:202 Resp: 133433

Ion Ratio Lower Upper

202 100

101 13.5 0.0 33.2

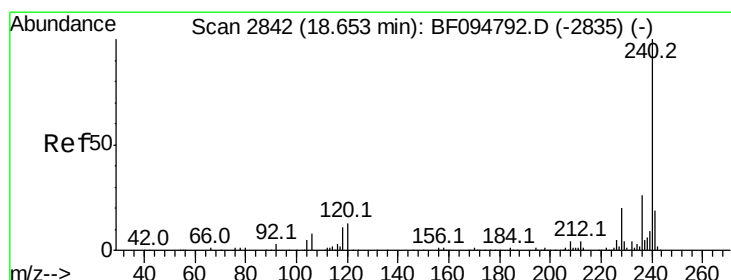
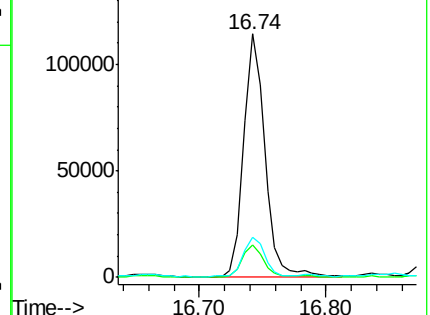
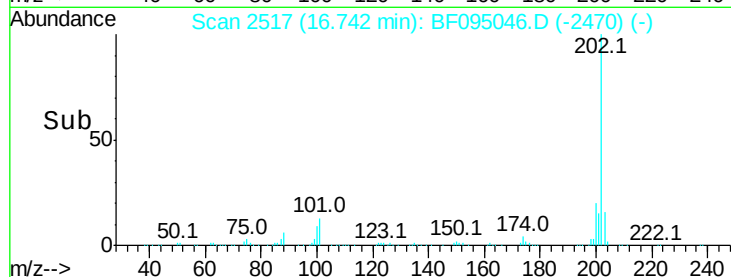
203 16.3 0.0 38.1



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: 18.63 min Scan# 2838

Delta R.T. -0.02 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

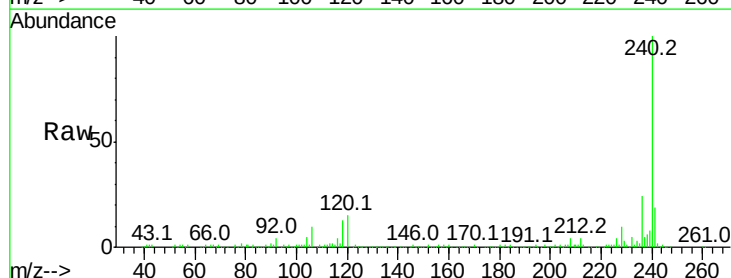
Tgt Ion:240 Resp: 207183

Ion Ratio Lower Upper

240 100

120 14.5 5.8 8.8#

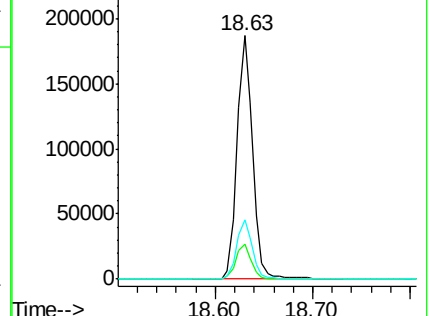
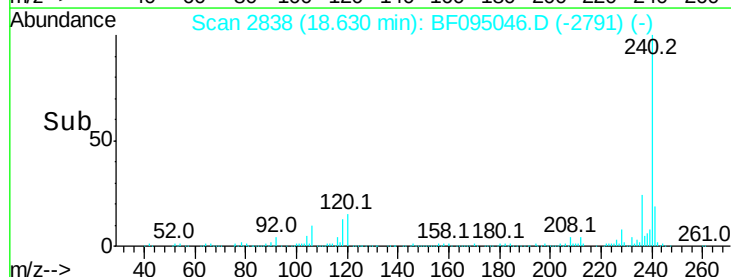
236 24.1 20.5 30.7

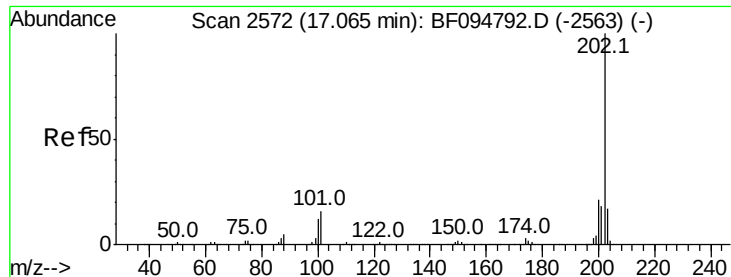


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 8.73 ng

RT: 17.04 min Scan# 2568

Delta R.T. -0.02 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

Instrument :

BNA_F

ClientSampleId :

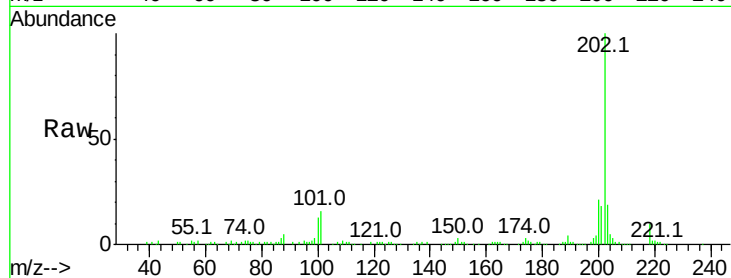
Tot Ion:202 Resp: 135312

Ion Ratio Lower Upper

202 100

200 20.9 17.6 26.4

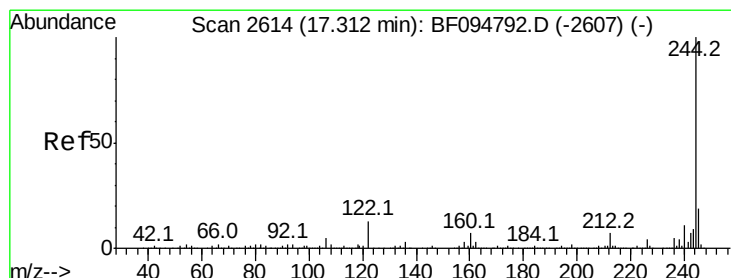
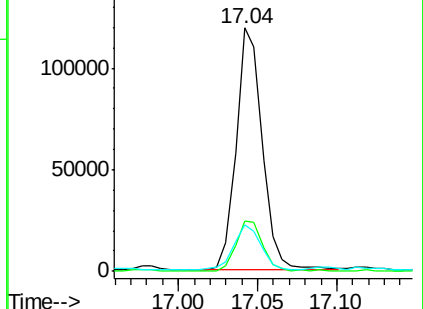
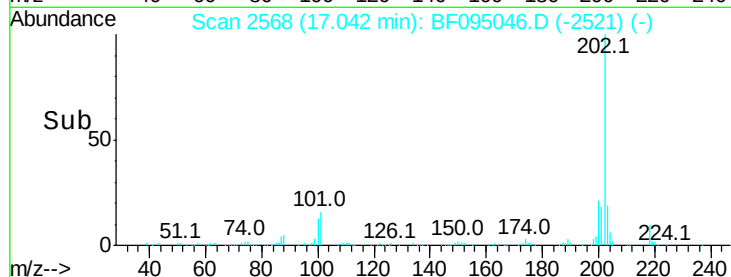
203 19.3 14.4 21.6



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: 33.03 ng

RT: 17.28 min Scan# 2609

Delta R.T. -0.03 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

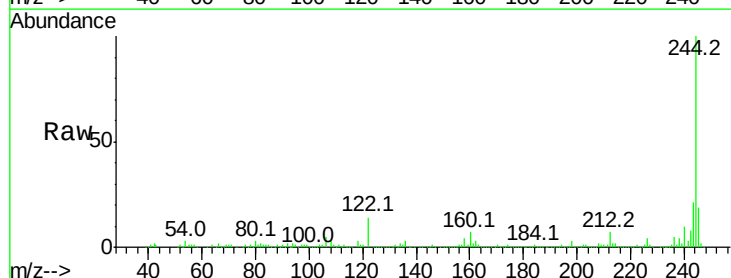
Tgt Ion:244 Resp: 310651

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

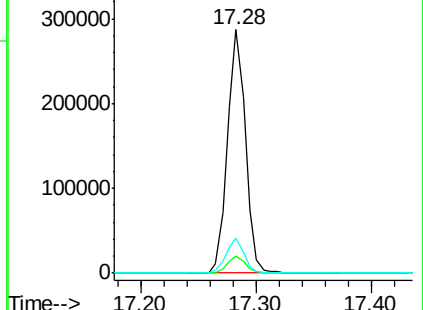
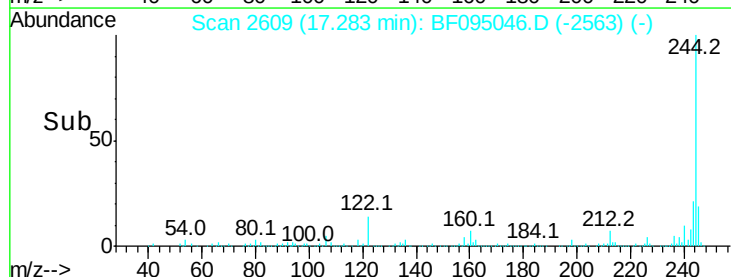
122 14.3 10.3 15.5

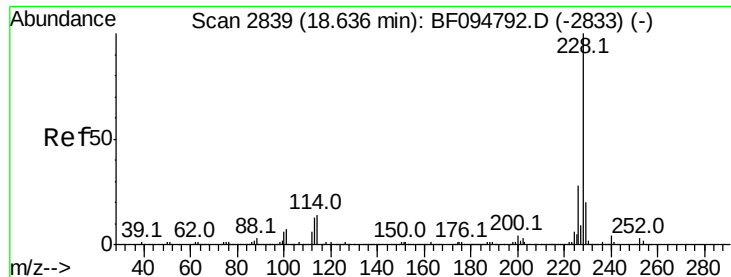


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 5.62 ng

RT: 18.62 min Scan# 2836

Delta R.T. -0.02 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

Instrument :

BNA_F

ClientSampleId :

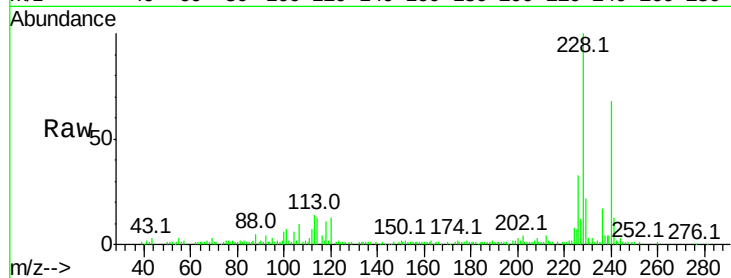
Tot Ion:228 Resp: 67757

Ion Ratio Lower Upper

228 100

226 33.0 22.6 33.8

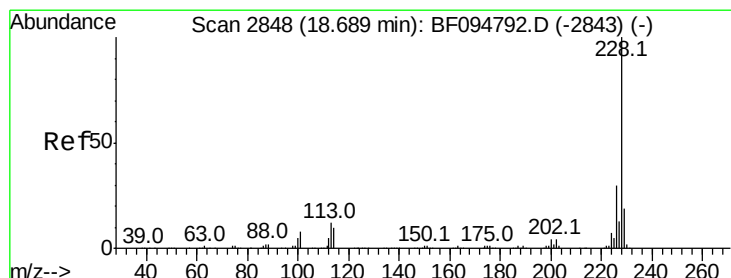
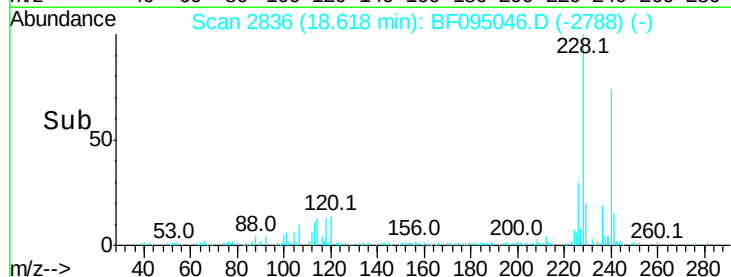
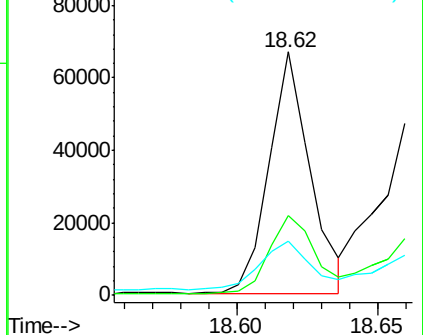
229 22.3 16.3 24.5



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



#82

Chrysene

Concen: 6.58 ng

RT: 18.67 min Scan# 2844

Delta R.T. -0.02 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

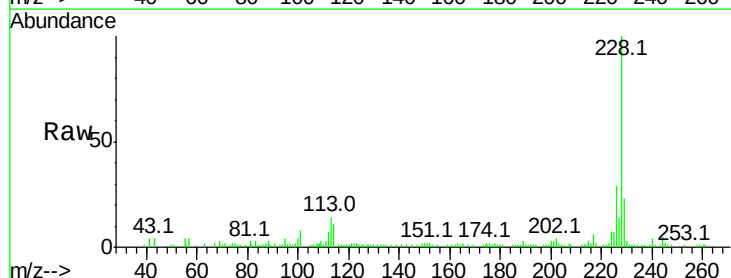
Tgt Ion:228 Resp: 76774

Ion Ratio Lower Upper

228 100

226 29.1 24.9 37.3

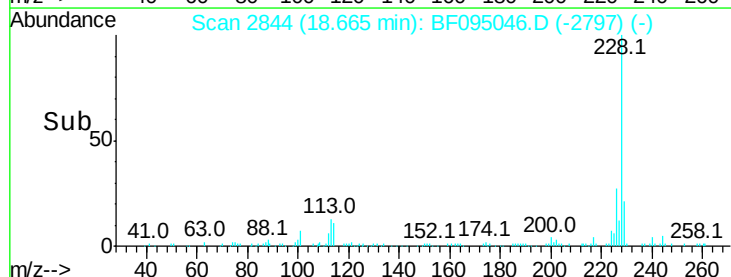
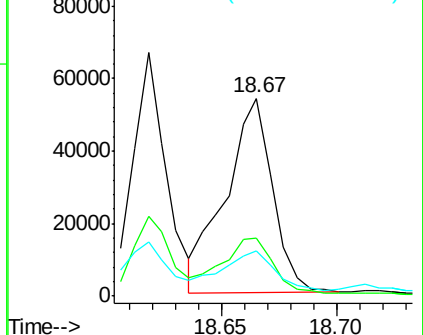
229 22.5 15.8 23.6

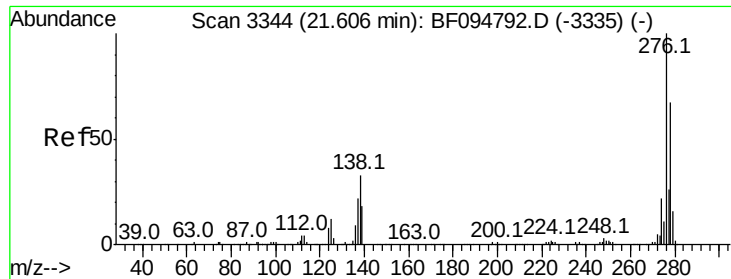


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

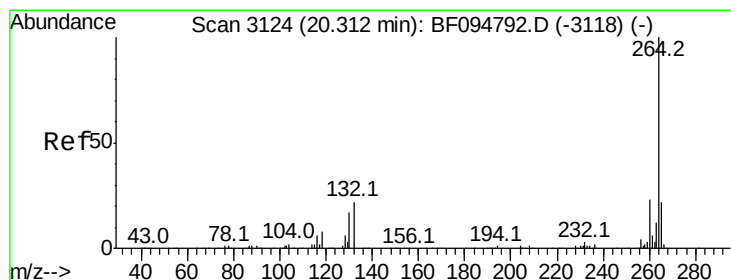
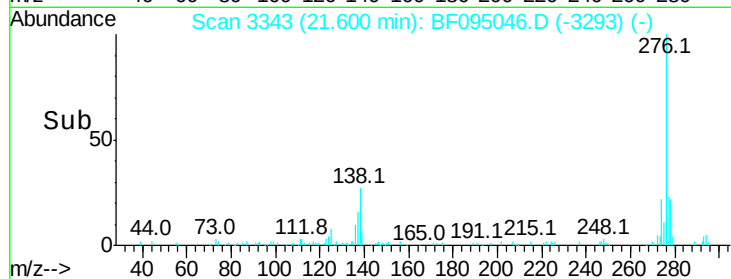
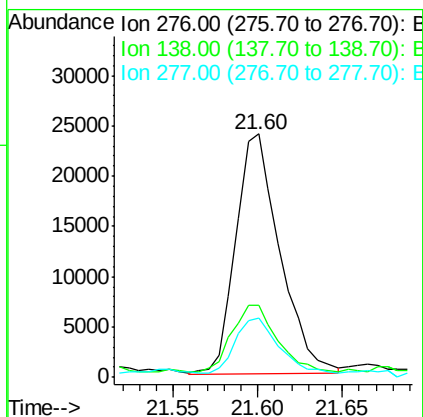
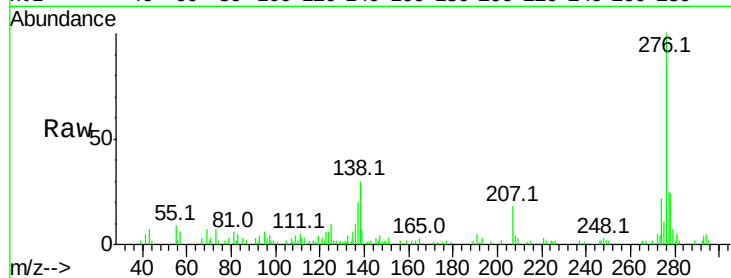




#85
Indeno(1,2,3-cd)pyrene
Concen: 4.62 ng
RT: 21.60 min Scan# 3343
Delta R.T. -0.01 min
Lab File: BF095046.D
Acq: 10 May 2017 4:08

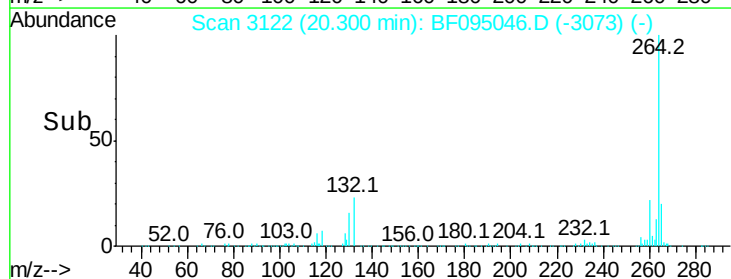
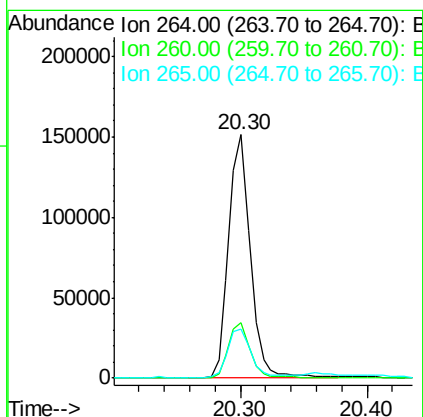
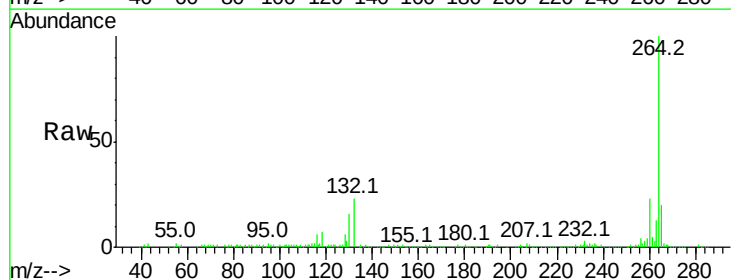
Instrument :
BNA_F
ClientSampleId :

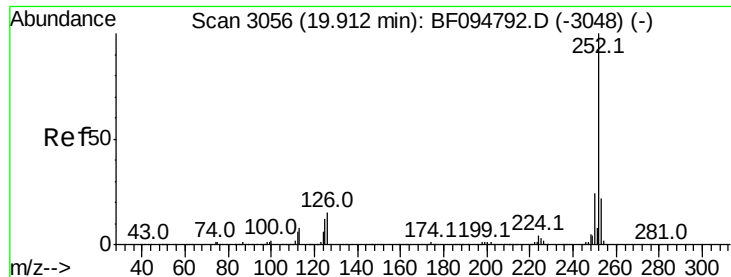
Tot Ion	Ratio	Lower	Upper
276	100		
138	30.6	27.8	41.6
277	22.3	20.2	30.4



#86
Perylene-d12
Concen: 20.00 ng
RT: 20.30 min Scan# 3122
Delta R.T. -0.01 min
Lab File: BF095046.D
Acq: 10 May 2017 4:08

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.7	19.5	29.3
265	20.1	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 13.63 ng

RT: 19.89 min Scan# 3053

Delta R.T. -0.02 min

Lab File: BF095046.D

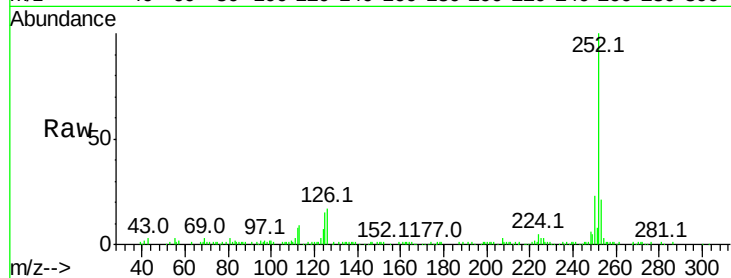
Acq: 10 May 2017 4:08

Instrument :

BNA_F

ClientSampled :

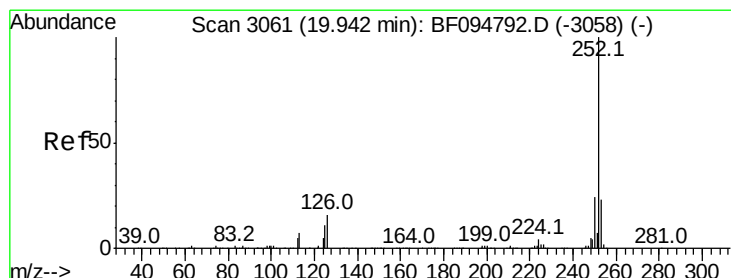
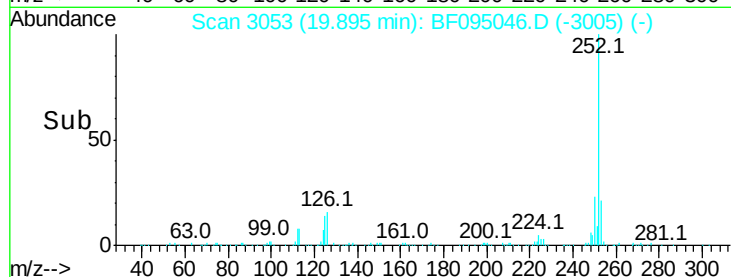
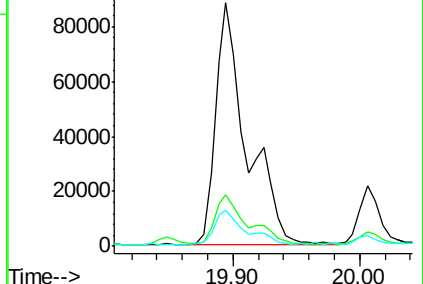
Tot Ion:	252	Resp:	152387
Ion Ratio	Lower	Upper	
252	100		
253	21.3	18.1	27.1
125	15.0	9.8	14.8#



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



#88

Benzo(k)fluoranthene

Concen: 14.13 ng

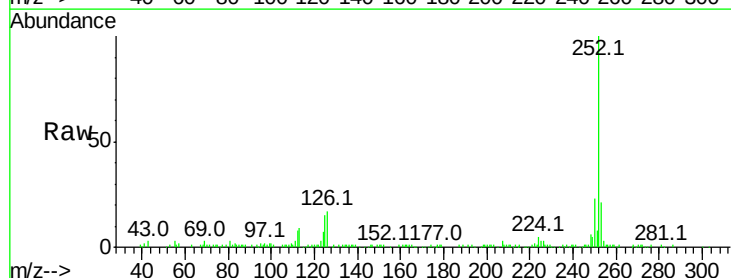
RT: 19.89 min Scan# 3053

Delta R.T. -0.05 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

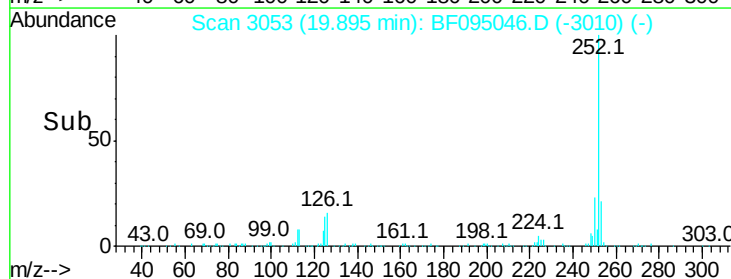
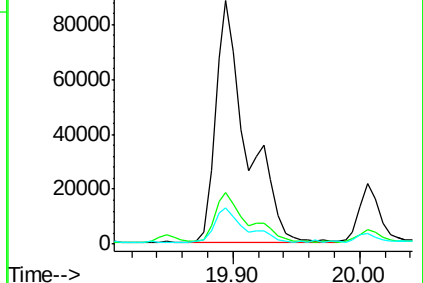
Tgt Ion:	252	Resp:	152387
Ion Ratio	Lower	Upper	
252	100		
253	21.3	18.4	27.6
125	15.0	13.1	19.7

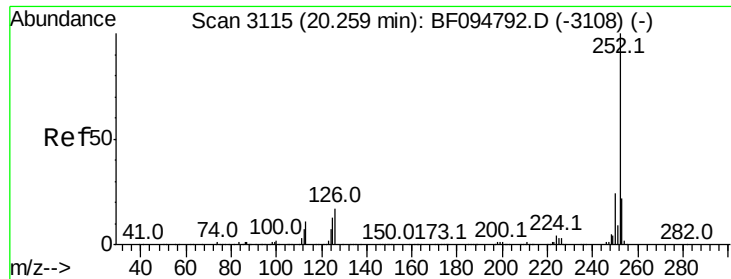


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 6.74 ng

RT: 20.24 min Scan# 3112

Delta R.T. -0.02 min

Lab File: BF095046.D

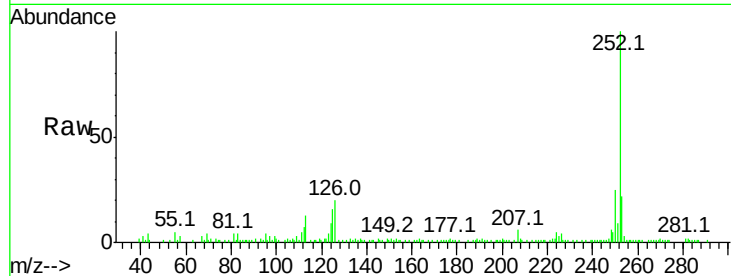
Acq: 10 May 2017 4:08

Instrument :

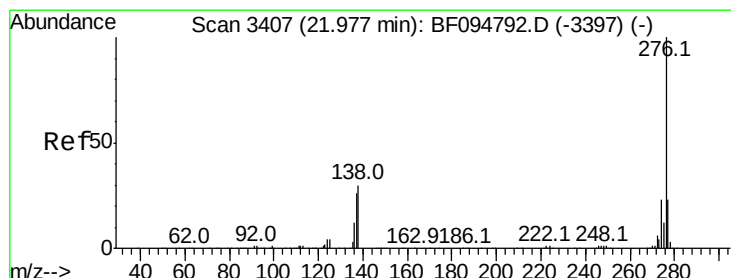
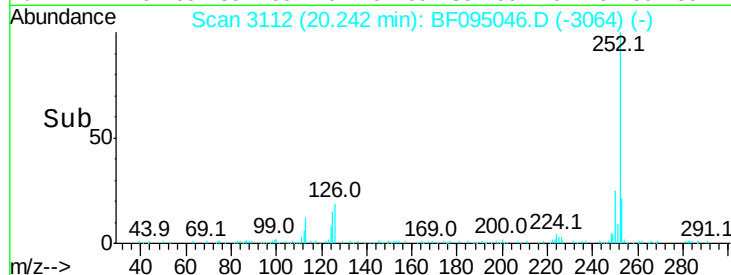
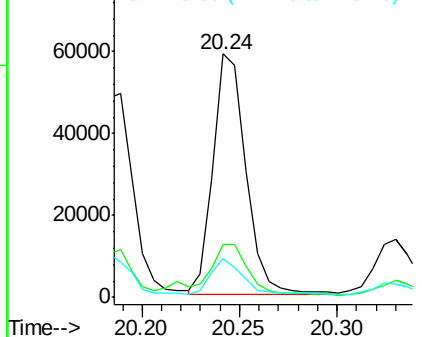
BNA_F

ClientSampleId :

Tot Ion:	252	Resp:	69565
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	16.0	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



#91

Benzo(g,h,i)perylene

Concen: 4.85 ng

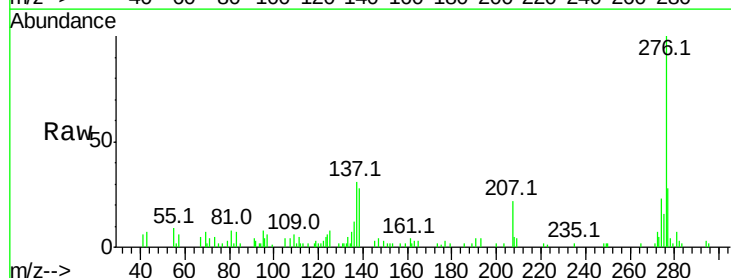
RT: 21.98 min Scan# 3407

Delta R.T. 0.00 min

Lab File: BF095046.D

Acq: 10 May 2017 4:08

Tgt Ion:	276	Resp:	40549
Ion	Ratio	Lower	Upper
276	100		
277	28.5	18.6	28.0#
138	27.9	25.4	38.0



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

