

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101218\
 Data File : BF109835.D
 Acq On : 12 Oct 2018 15:57
 Operator : JU/SJ
 Sample : J5314-06DL 50X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 12 17:20:49 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 08 16:02:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	82000	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	451136	20.00	ng	0.00
38) Acenaphthene-d10	9.72	164	211164	20.00	ng	0.00
63) Phenanthrene-d10	11.20	188	373910	20.00	ng	0.00
75) Chrysene-d12	13.83	240	209815	20.00	ng	0.00
86) Perylene-d12	15.23	264	216341	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	6.41	99	684	0.11	ng	0.05
23) Nitrobenzene-d5	7.37	82	2508	0.31	ng	0.11
41) 2,4,6-Tribromophenol	10.52	330	2256	0.98	ng	0.00
44) 2-Fluorobiphenyl	9.06	172	16249	1.06	ng	0.00
78) Terphenyl-d14	12.78	244	13945	1.29	ng	0.00

Target Compounds

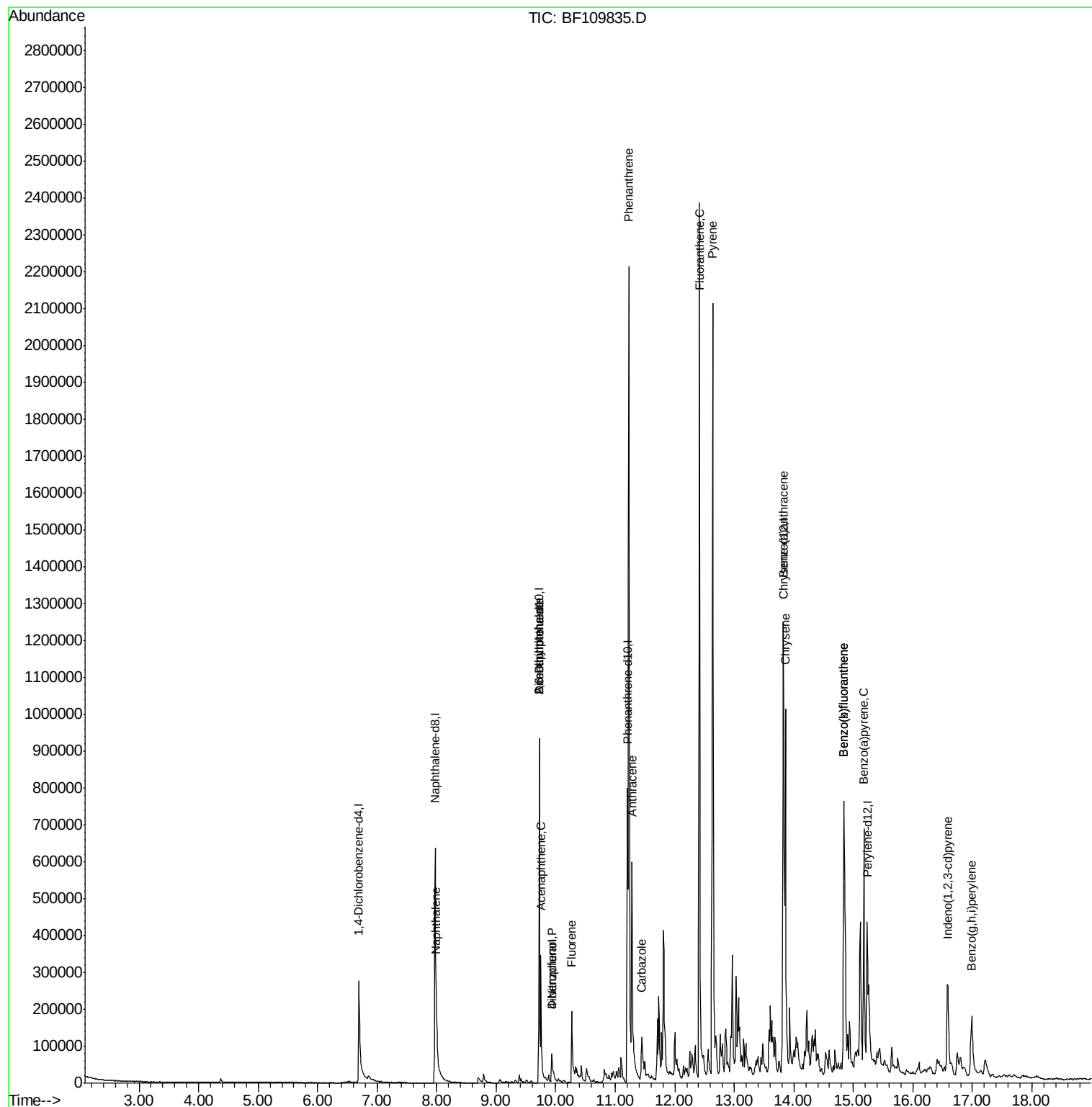
						Qvalue
31) Naphthalene	7.99	128	112979	5.415	ng	98
49) Dimethylphthalate	9.72	163	53864	3.478	ng	# 1
50) 2,6-Dinitrotoluene	9.72	165	27403	8.163	ng	# 23
51) Acenaphthene	9.75	154	80277	6.572	ng	96
54) Dibenzofuran	9.93	168	78461	4.285	ng	94
55) 4-Nitrophenol	9.93	139	29247	14.199	ng	# 6
57) Fluorene	10.27	166	107494	7.862	ng	97
70) Phenanthrene	11.23	178	940477	50.261	ng	99
71) Anthracene	11.28	178	381422	19.719	ng	99
72) Carbazole	11.45	167	103599	5.522	ng	99
74) Fluoranthene	12.42	202	1225231	62.678	ng	98
77) Pyrene	12.64	202	998673	64.965	ng	99
80) Benzo(a)anthracene	13.82	228	479793	41.439	ng	98
82) Chrysene	13.86	228	398518	32.768	ng	97
85) Indeno(1,2,3-cd)pyrene	16.58	276	191082	21.951	ng	# 90
87) Benzo(b)fluoranthene	14.84	252	609798	51.006	ng	99
88) Benzo(k)fluoranthene	14.84	252	609798	50.765	ng	98
89) Benzo(a)pyrene	15.17	252	343046	31.619	ng	98
91) Benzo(a,h,i)perylene	16.99	276	163986	18.430	ng	98

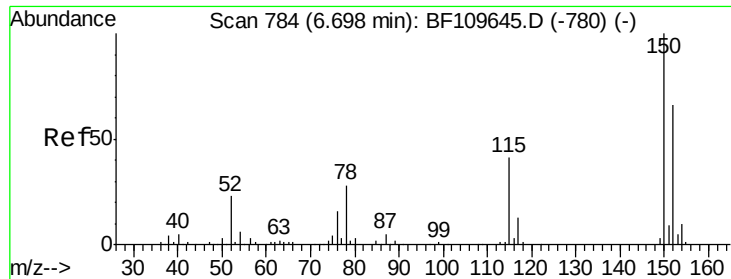
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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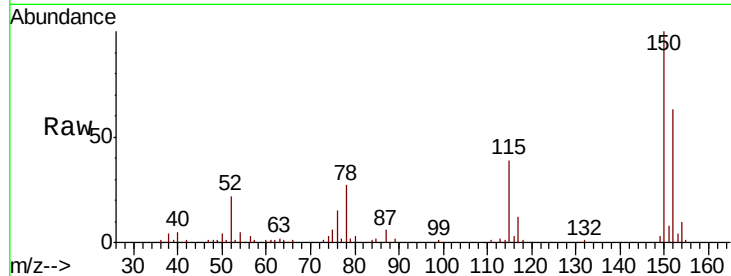


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.69 min Scan# 783
Delta R.T. -0.01 min
Lab File: BF109835.D
Acq: 12 Oct 2018 15:57

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.7	122.7	184.1
115	62.0	49.1	73.7

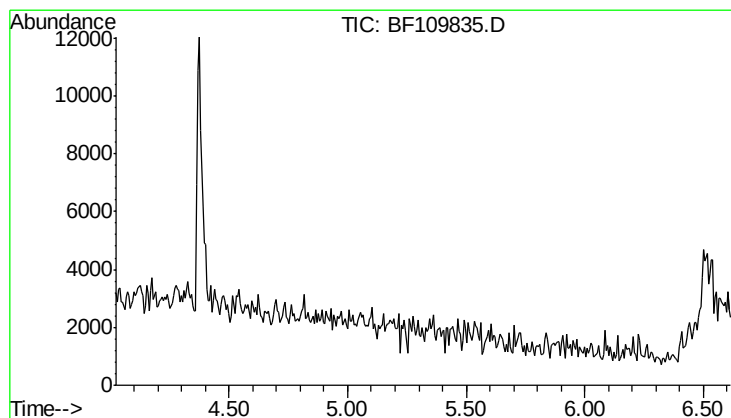
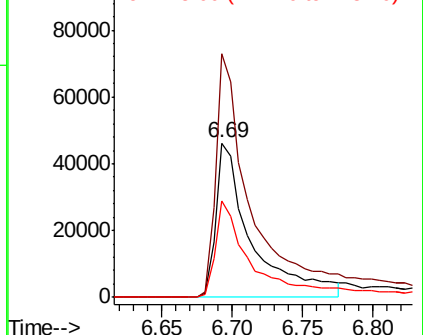
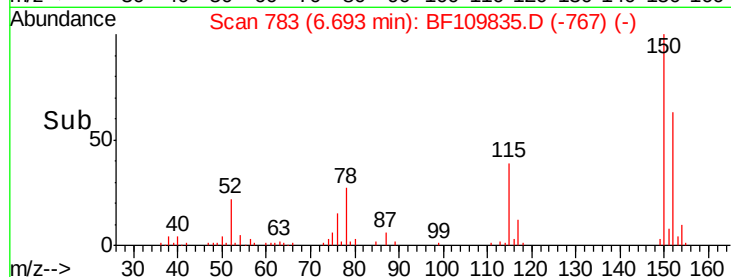


Abundance

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

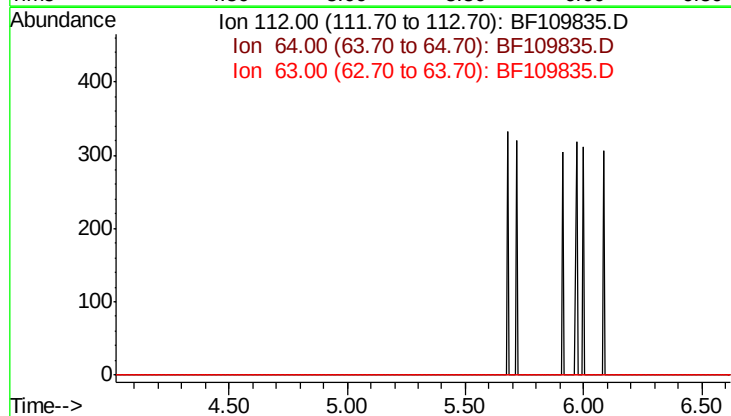


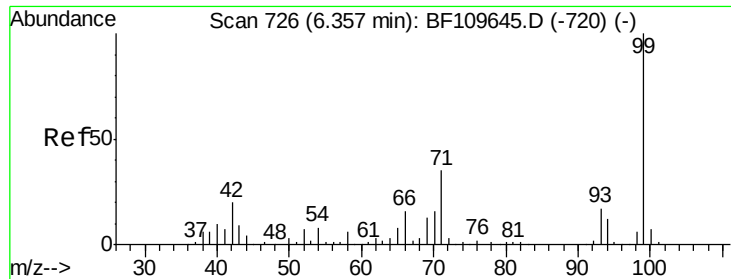
#5

2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.32 min

Lab File: BF109835.D
Acq: 12 Oct 2018 15:57

Tgt Ion	Exp Ratio
112	100
64	55.1
63	29.6





#7

Phenol-d6

Concen: 0.111 ng

RT: 6.41 min Scan# 735

Delta R.T. 0.05 min

Lab File: BF109835.D

Acq: 12 Oct 2018 15:57

Instrument :

BNA_F

ClientSampled :

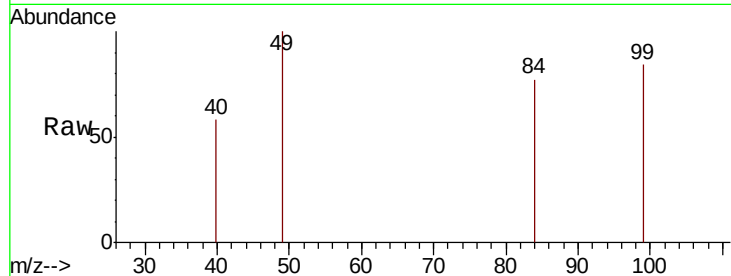
Tot Ion: 99 Resp: 684

Ion Ratio Lower Upper

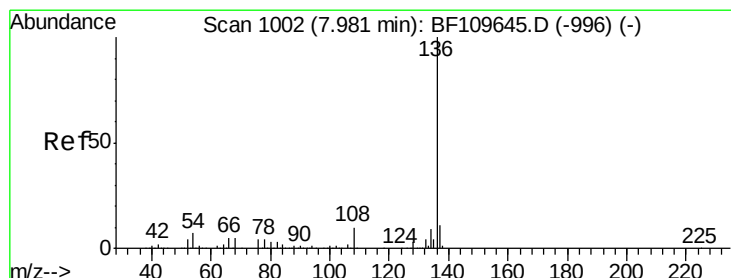
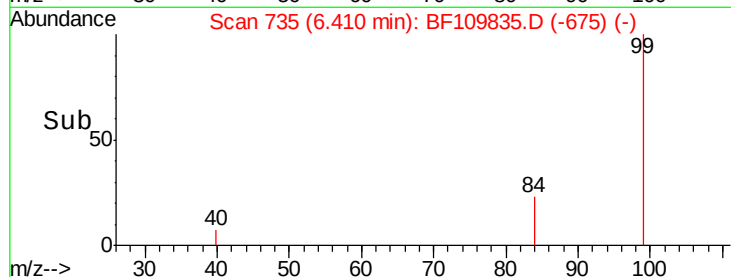
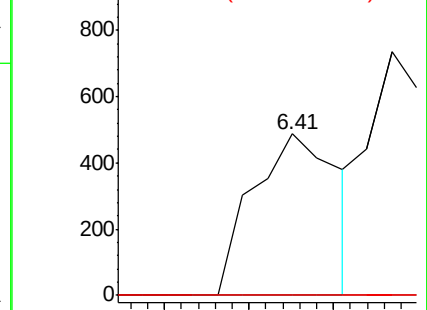
99 100

42 0.0 15.8 23.6#

71 0.0 28.0 42.0#



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.97 min Scan# 1001

Delta R.T. -0.01 min

Lab File: BF109835.D

Acq: 12 Oct 2018 15:57

Tgt Ion: 136 Resp: 451136

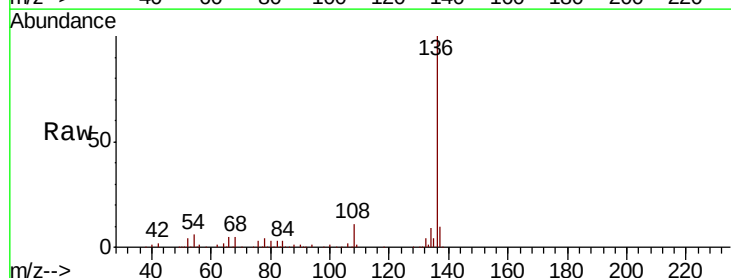
Ion Ratio Lower Upper

136 100

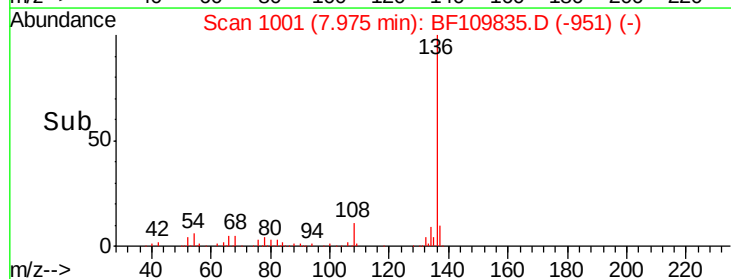
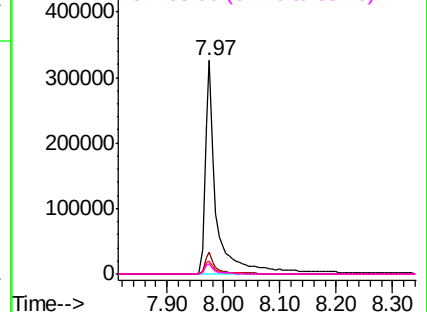
137 10.4 8.8 13.2

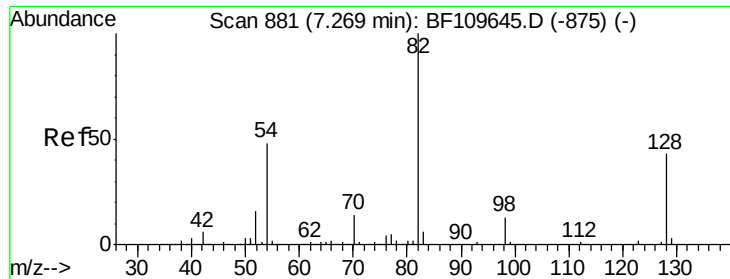
54 6.1 5.4 8.2

68 4.7 4.2 6.2



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): BF1
Ion 68.00 (67.70 to 68.70): BF1

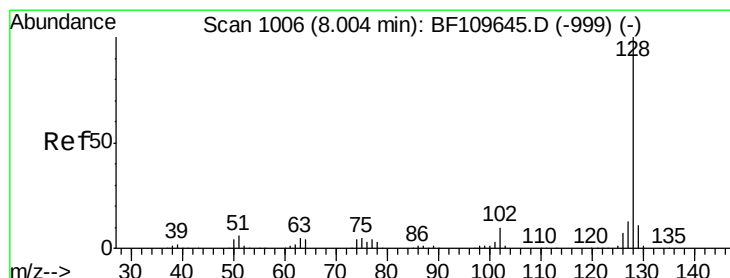
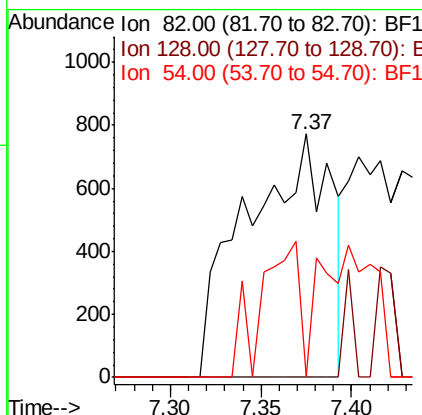
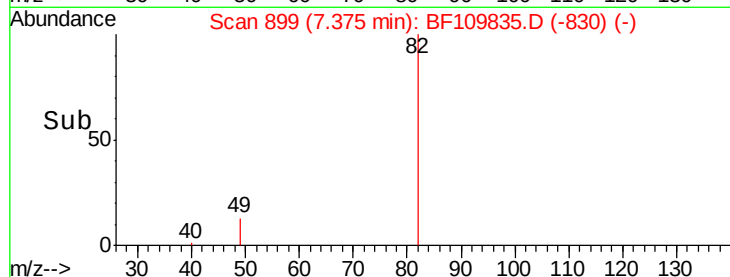
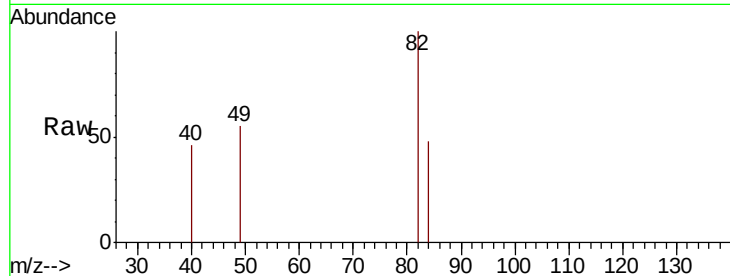




#23
 Nitrobenzene-d5
 Concen: 0.306 ng
 RT: 7.37 min Scan# 899
 Delta R.T. 0.11 min
 Lab File: BF109835.D
 Acq: 12 Oct 2018 15:57

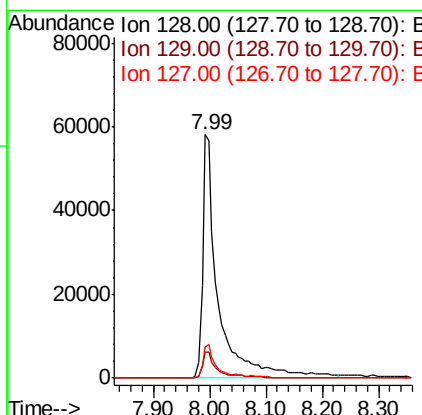
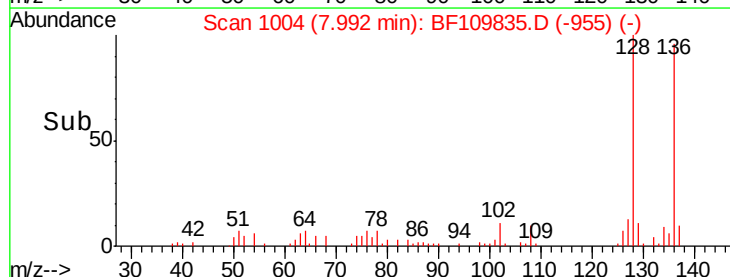
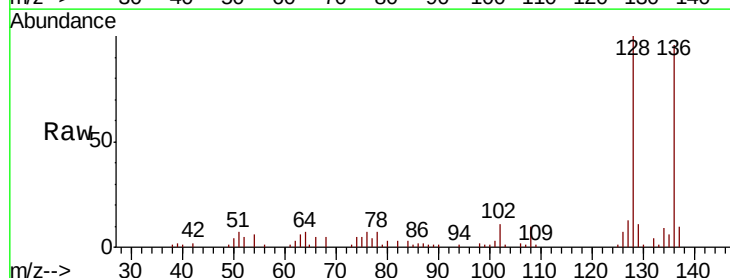
Instrument :
 BNA_F
 ClientSampled :

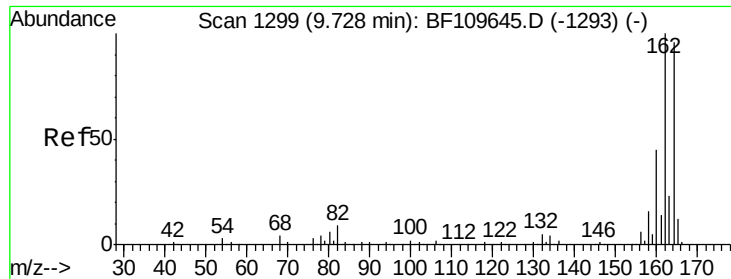
Tot Ion: 82 Resp: 2508
 Ion Ratio Lower Upper
 82 100
 128 0.0 34.2 51.2#
 54 0.0 38.6 58.0#



#31
 Naphthalene
 Concen: 5.415 ng
 RT: 7.99 min Scan# 1004
 Delta R.T. -0.01 min
 Lab File: BF109835.D
 Acq: 12 Oct 2018 15:57

Tgt Ion: 128 Resp: 112979
 Ion Ratio Lower Upper
 128 100
 129 10.6 8.8 13.2
 127 12.7 10.8 16.2

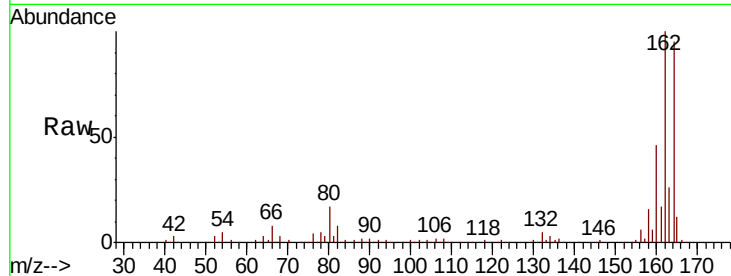




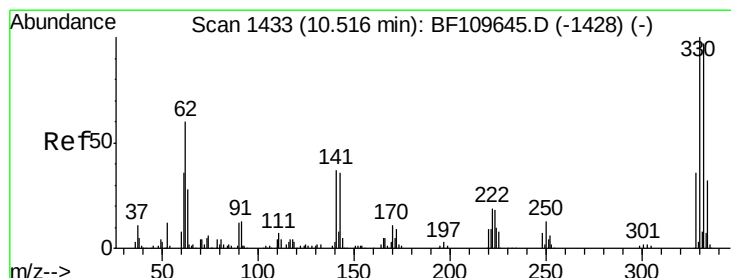
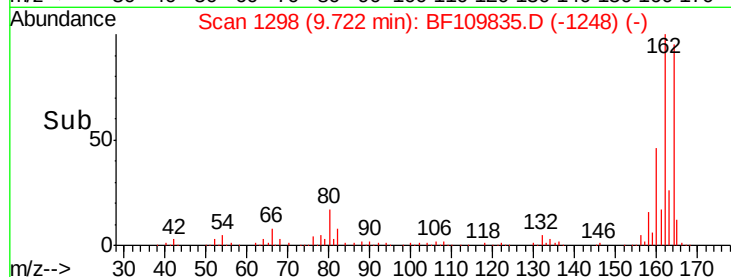
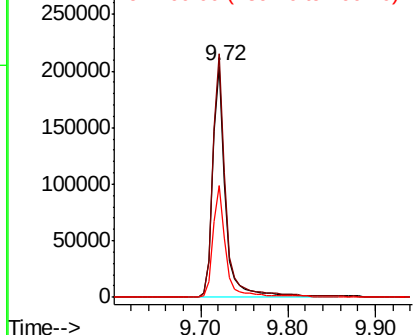
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.72 min Scan# 1298
 Delta R.T. -0.01 min
 Lab File: BF109835.D
 Acq: 12 Oct 2018 15:57

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 211164
 Ion Ratio Lower Upper
 164 100
 162 105.4 83.0 124.6
 160 48.5 37.0 55.6

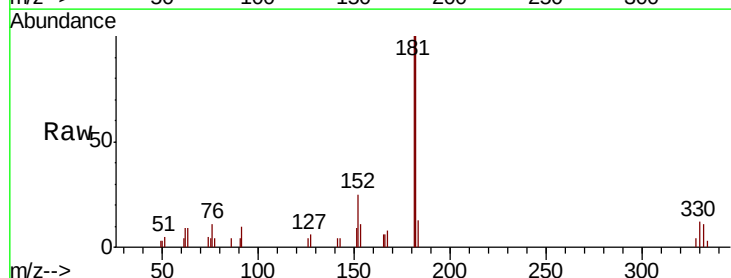


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

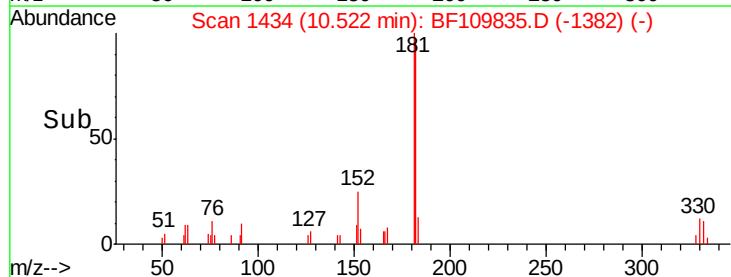
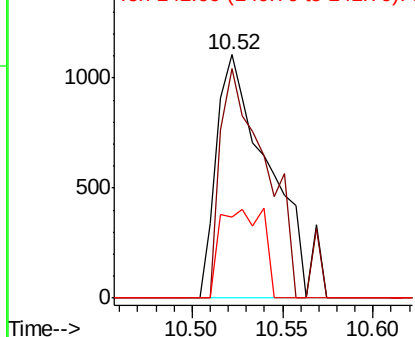


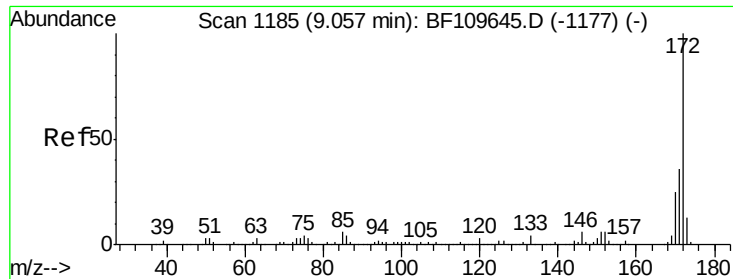
#41
 2,4,6-Tribromophenol
 Concen: 0.981 ng
 RT: 10.52 min Scan# 1434
 Delta R.T. 0.01 min
 Lab File: BF109835.D
 Acq: 12 Oct 2018 15:57

Tgt Ion:330 Resp: 2256
 Ion Ratio Lower Upper
 330 100
 332 79.3 77.1 115.7
 141 29.6 27.0 40.4



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

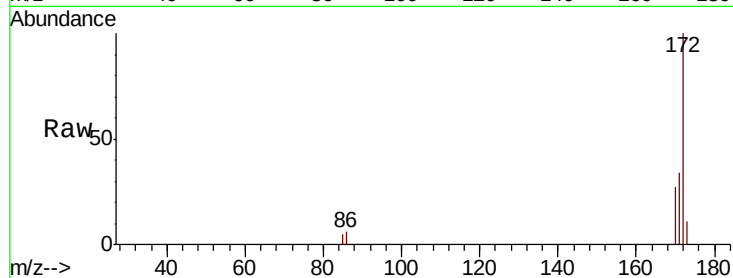




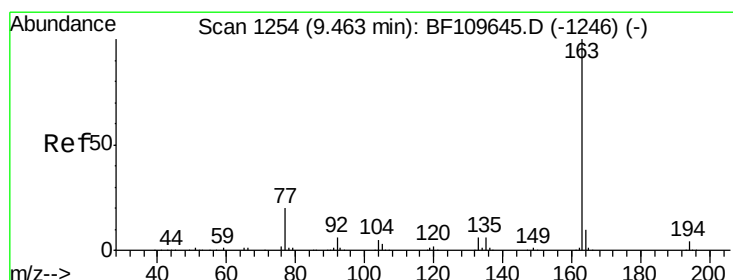
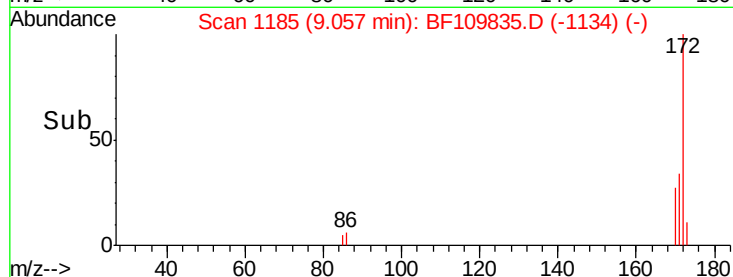
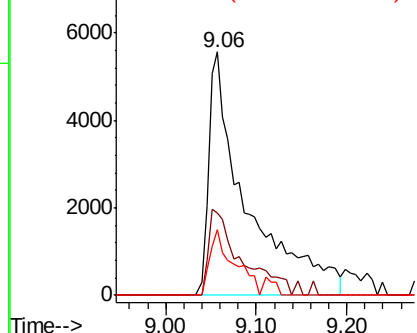
#44
2-Fluorobiphenyl
Concen: 1.060 ng
RT: 9.06 min Scan# 1185
Delta R.T. 0.00 min
Lab File: BF109835.D
Acq: 12 Oct 2018 15:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 16249
Ion Ratio Lower Upper
172 100
171 34.1 28.6 43.0
170 27.2 19.7 29.5

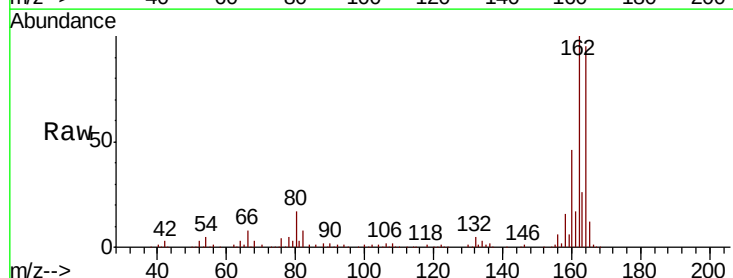


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

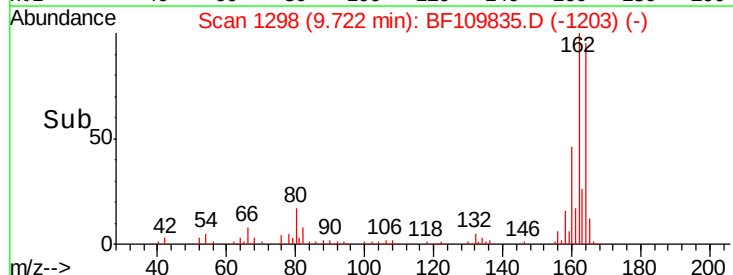
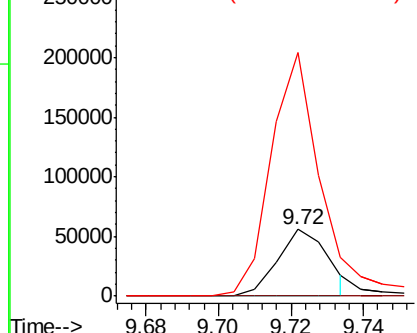


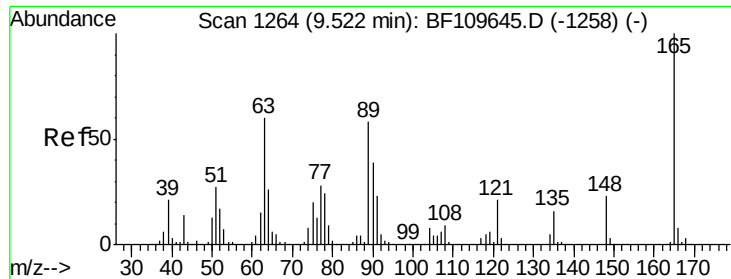
#49
Dimethylphthalate
Concen: 3.478 ng
RT: 9.72 min Scan# 1298
Delta R.T. 0.26 min
Lab File: BF109835.D
Acq: 12 Oct 2018 15:57

Tgt Ion:163 Resp: 53864
Ion Ratio Lower Upper
163 100
194 0.0 3.2 4.8#
164 365.0 8.1 12.1#



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

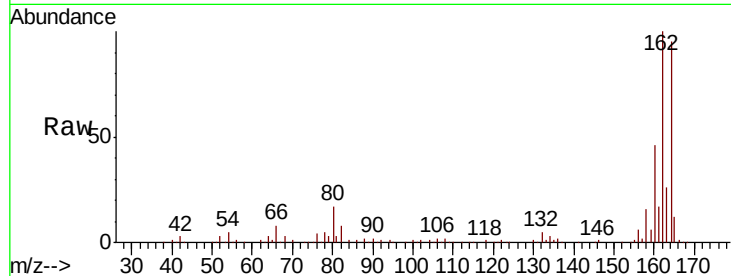




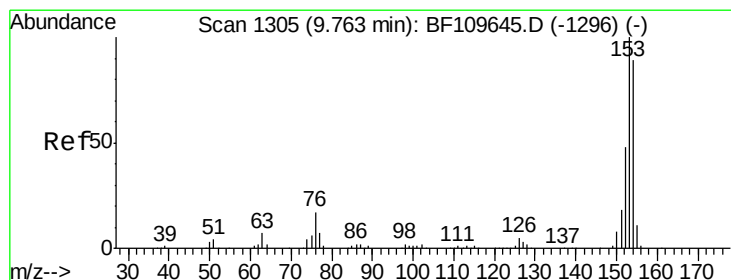
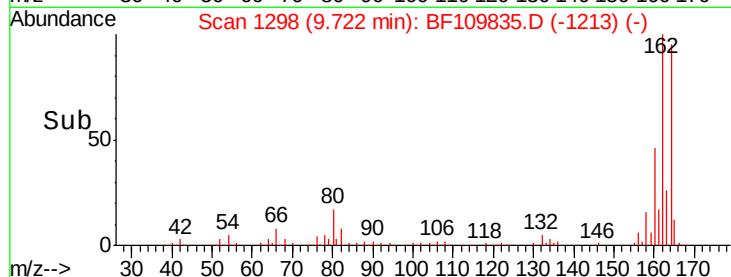
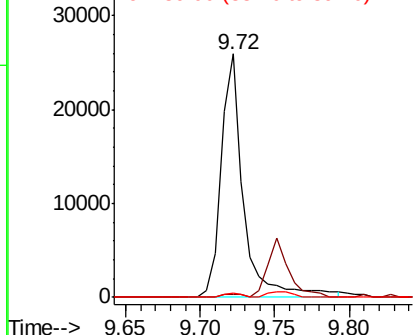
#50
 2,6-Dinitrotoluene
 Concen: 8.163 ng
 RT: 9.72 min Scan# 1298
 Delta R.T. 0.20 min
 Lab File: BF109835.D
 Acq: 12 Oct 2018 15:57

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.3	48.9	73.3#
89	1.8	46.6	69.8#

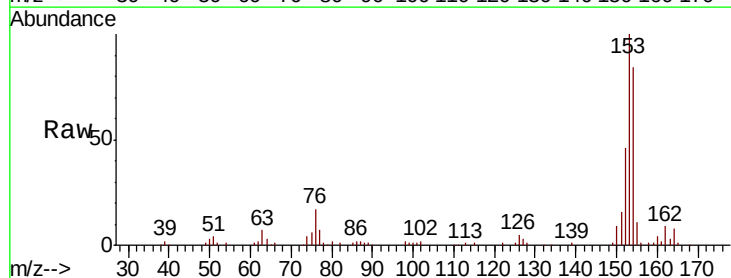


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

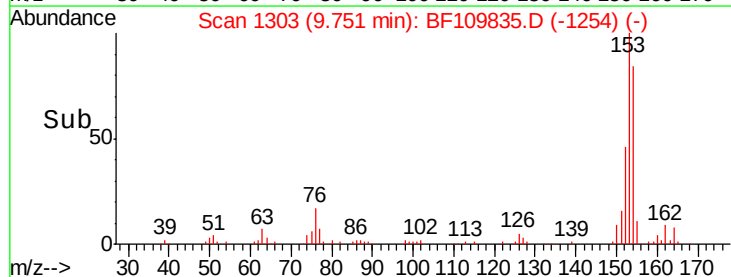
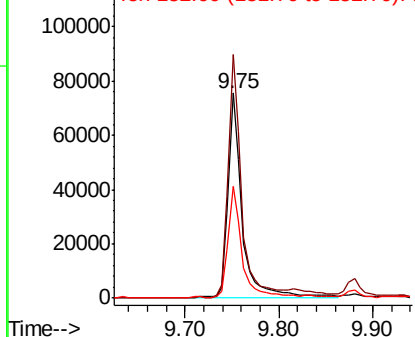


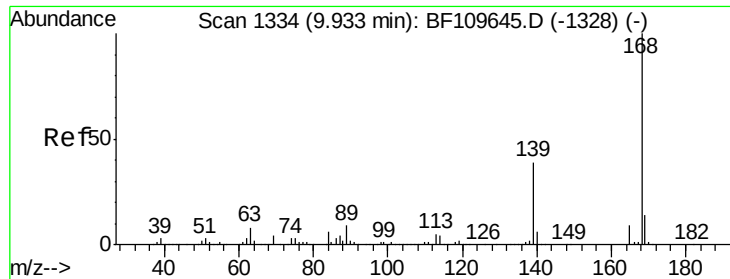
#51
 Acenaphthene
 Concen: 6.572 ng
 RT: 9.75 min Scan# 1303
 Delta R.T. -0.01 min
 Lab File: BF109835.D
 Acq: 12 Oct 2018 15:57

Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.7	90.1	135.1
152	54.7	43.4	65.2



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 152.00 (151.70 to 152.70): E

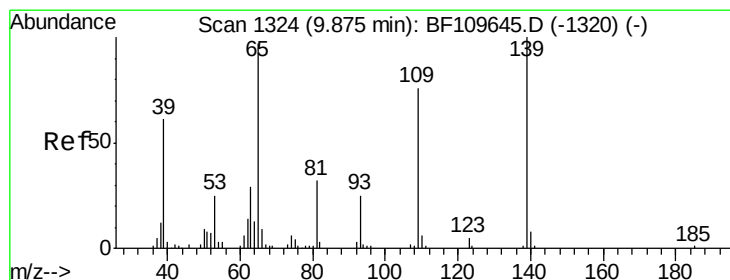
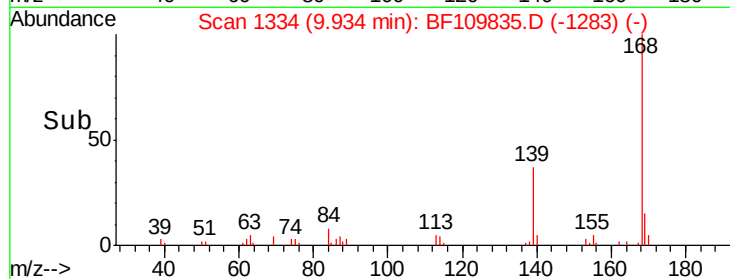
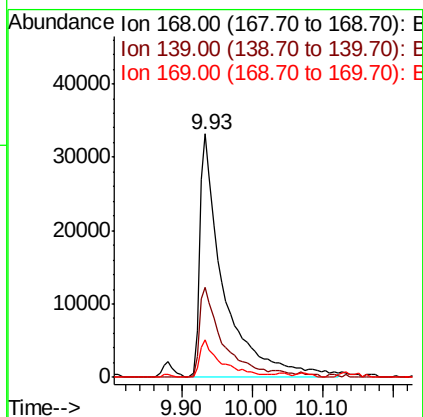
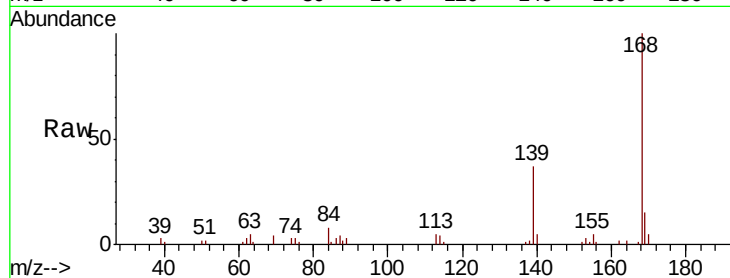




#54
Dibenzenofuran
Concen: 4.285 ng
RT: 9.93 min Scan# 1334
Delta R.T. 0.00 min
Lab File: BF109835.D
Acq: 12 Oct 2018 15:57

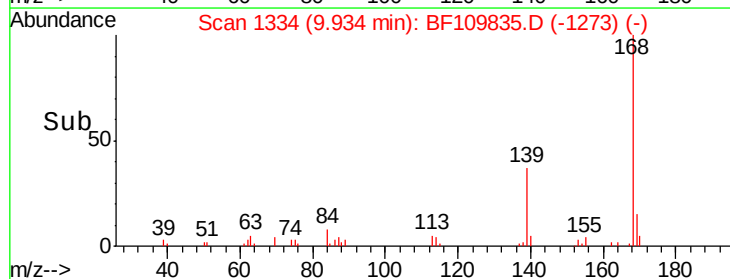
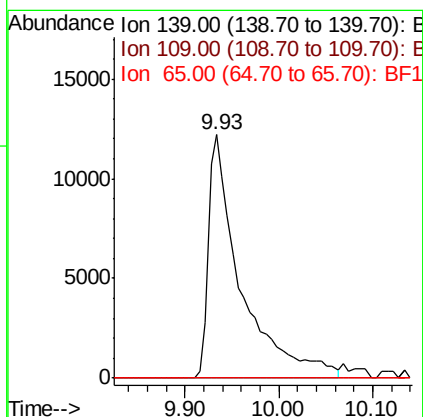
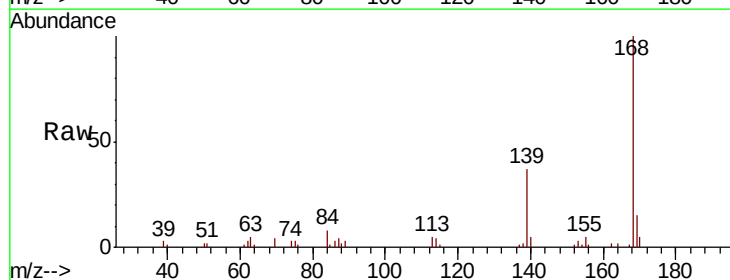
Instrument :
BNA_F
ClientSampleId :

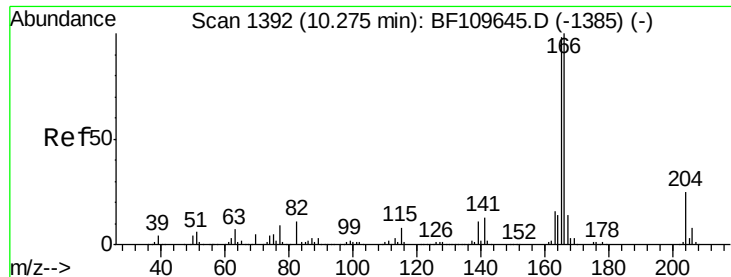
Tot Ion:168 Resp: 78461
Ion Ratio Lower Upper
168 100
139 36.8 33.0 49.6
169 15.2 11.3 16.9



#55
4-Nitrophenol
Concen: 14.199 ng
RT: 9.93 min Scan# 1334
Delta R.T. 0.06 min
Lab File: BF109835.D
Acq: 12 Oct 2018 15:57

Tgt Ion:139 Resp: 29247
Ion Ratio Lower Upper
139 100
109 0.0 55.8 95.8#
65 0.0 77.9 117.9#

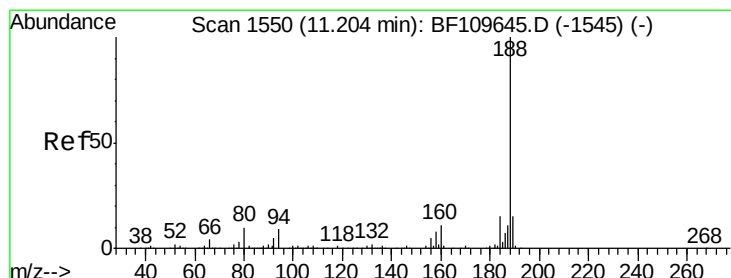
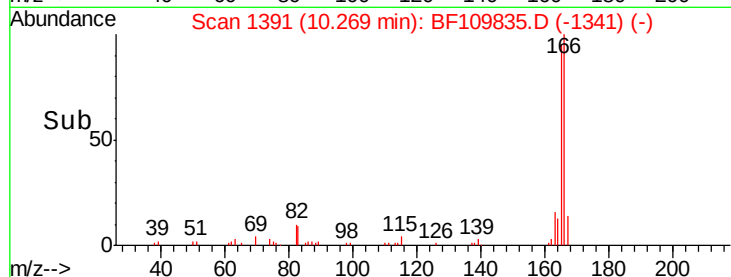
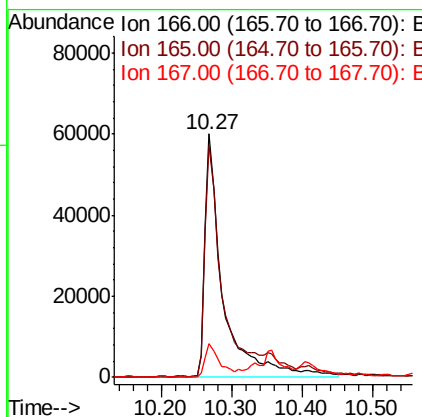
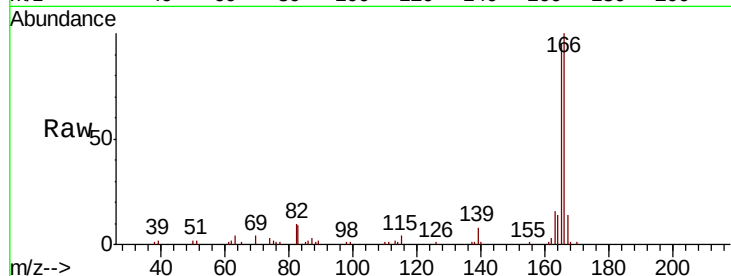




#57
 Fluorene
 Concen: 7.862 ng
 RT: 10.27 min Scan# 1391
 Delta R.T. -0.01 min
 Lab File: BF109835.D
 Acq: 12 Oct 2018 15:57

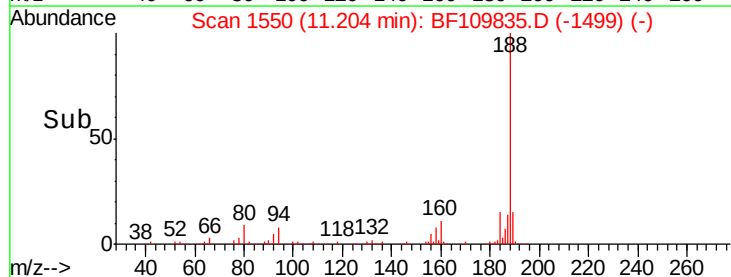
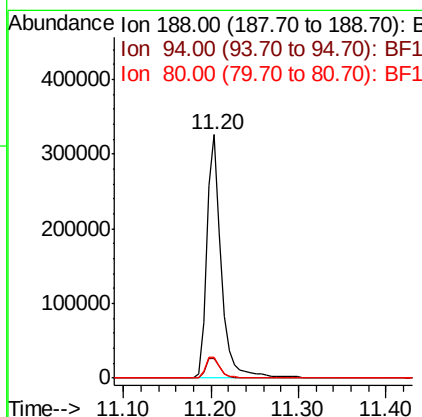
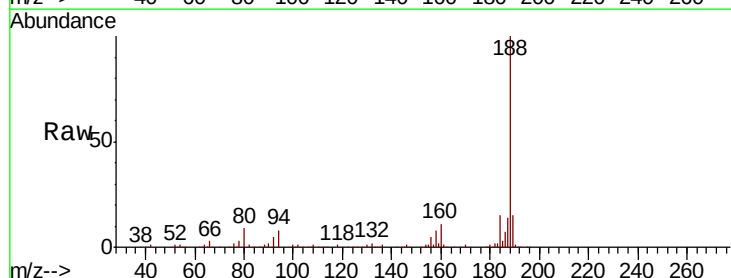
Instrument :
 BNA_F
 ClientSampleId :

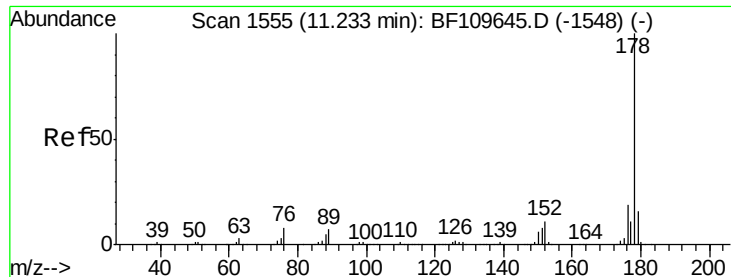
Tot Ion:166 Resp: 107494
 Ion Ratio Lower Upper
 166 100
 165 95.3 78.6 117.8
 167 13.7 10.8 16.2



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.20 min Scan# 1550
 Delta R.T. 0.00 min
 Lab File: BF109835.D
 Acq: 12 Oct 2018 15:57

Tgt Ion:188 Resp: 373910
 Ion Ratio Lower Upper
 188 100
 94 8.2 7.2 10.8
 80 8.7 7.9 11.9

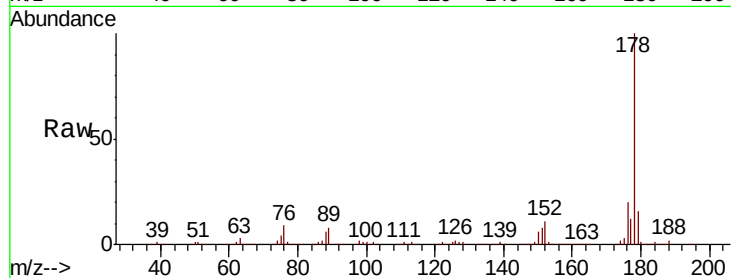




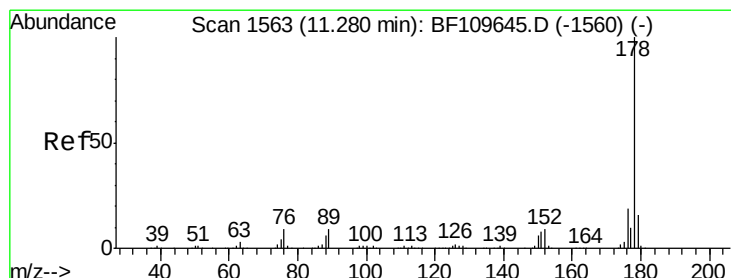
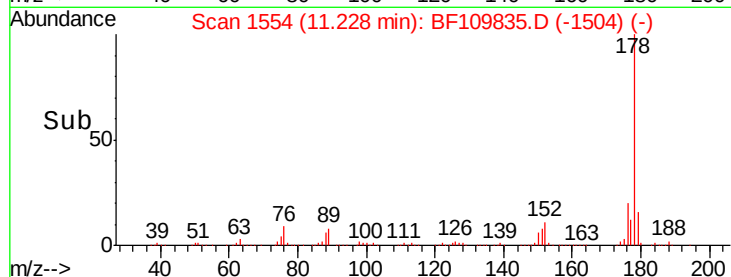
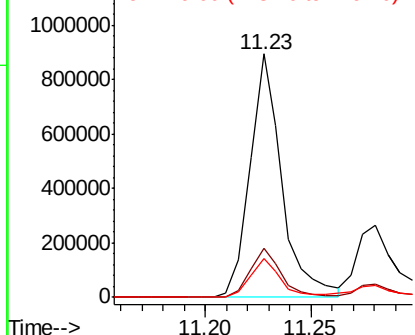
#70
Phenanthrene
Concen: 50.261 ng
RT: 11.23 min Scan# 1554
Delta R.T. -0.01 min
Lab File: BF109835.D
Acq: 12 Oct 2018 15:57

Instrument :
BNA_F
ClientSampled :

Tot Ion:178 Resp: 940477
Ion Ratio Lower Upper
178 100
176 20.1 15.5 23.3
179 15.9 12.5 18.7

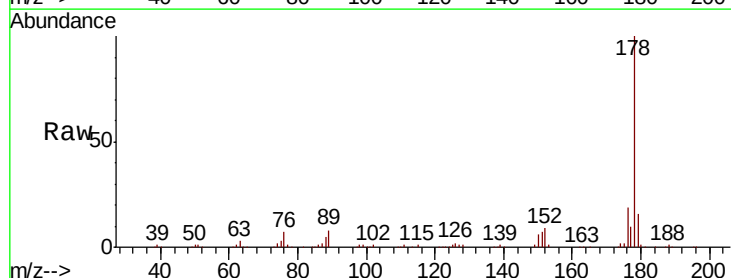


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

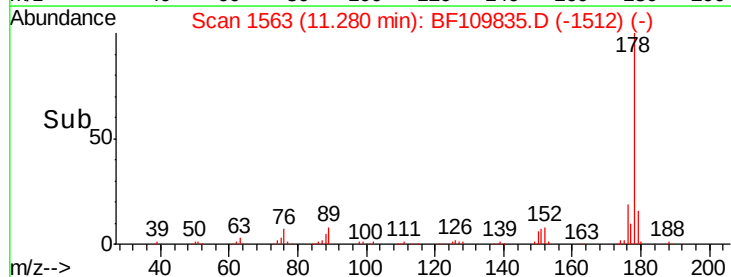
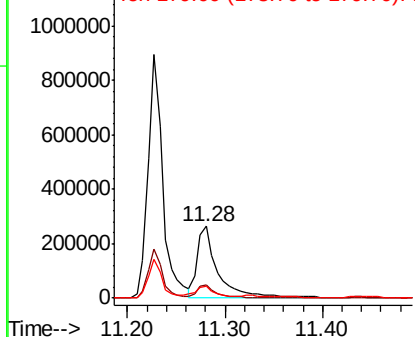


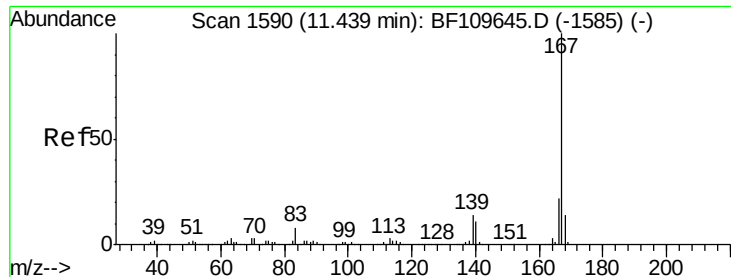
#71
Anthracene
Concen: 19.719 ng
RT: 11.28 min Scan# 1563
Delta R.T. 0.00 min
Lab File: BF109835.D
Acq: 12 Oct 2018 15:57

Tgt Ion:178 Resp: 381422
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 16.3 12.6 18.8



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





#72

Carbazole

Concen: 5.522 ng

RT: 11.45 min Scan# 1591

Delta R.T. 0.01 min

Lab File: BF109835.D

Acq: 12 Oct 2018 15:57

Instrument :

BNA_F

ClientSampled :

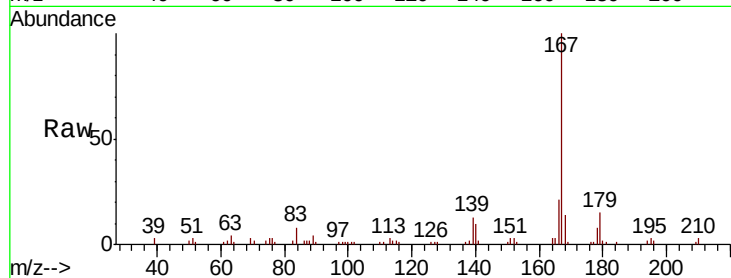
Tot Ion:167 Resp: 103599

Ion Ratio Lower Upper

167 100

166 21.1 17.4 26.0

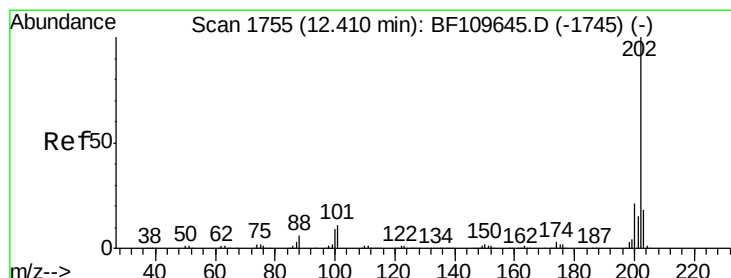
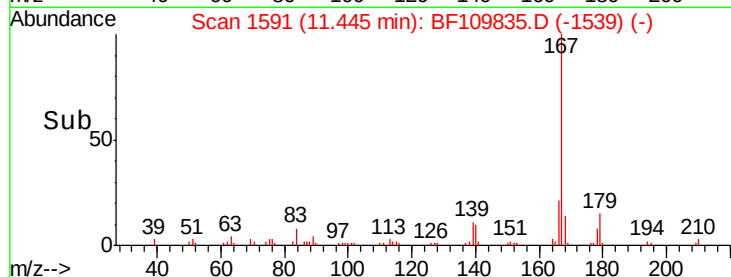
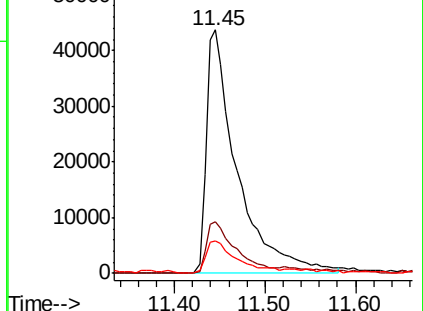
139 13.2 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 62.678 ng

RT: 12.42 min Scan# 1756

Delta R.T. 0.01 min

Lab File: BF109835.D

Acq: 12 Oct 2018 15:57

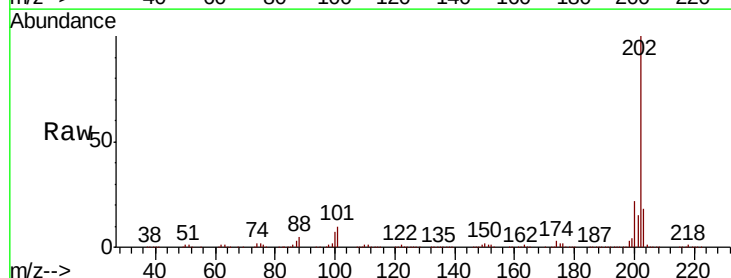
Tgt Ion:202 Resp: 1225231

Ion Ratio Lower Upper

202 100

101 10.1 0.0 31.4

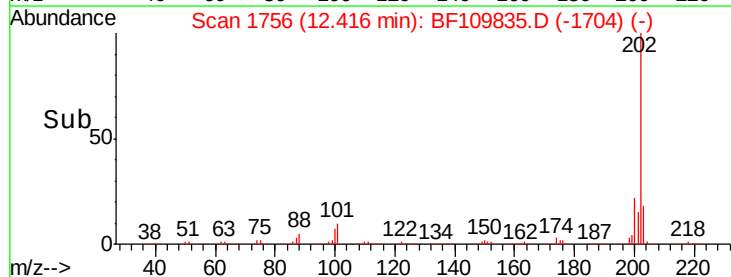
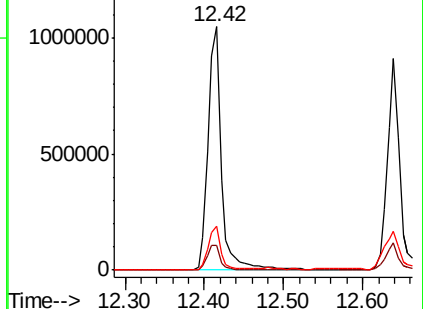
203 17.9 0.0 37.7

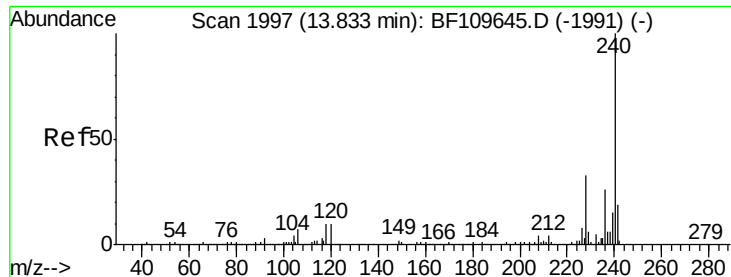


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.83 min Scan# 1997

Delta R.T. 0.00 min

Lab File: BF109835.D

Acq: 12 Oct 2018 15:57

Instrument :

BNA_F

ClientSampleId :

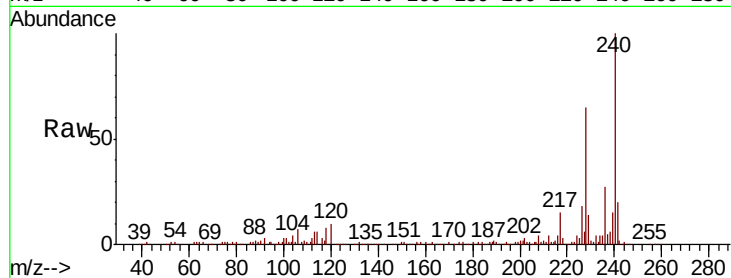
Tot Ion:240 Resp: 209815

Ion Ratio Lower Upper

240 100

120 9.5 8.3 12.5

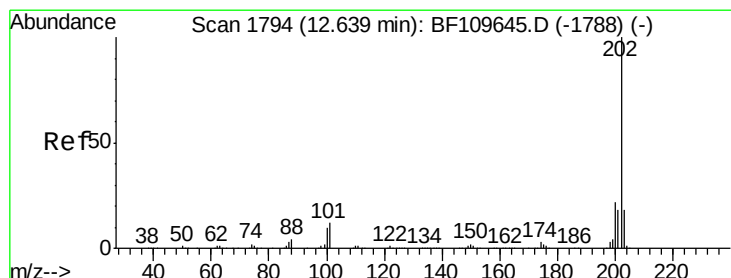
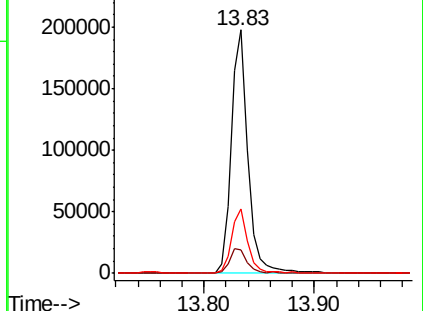
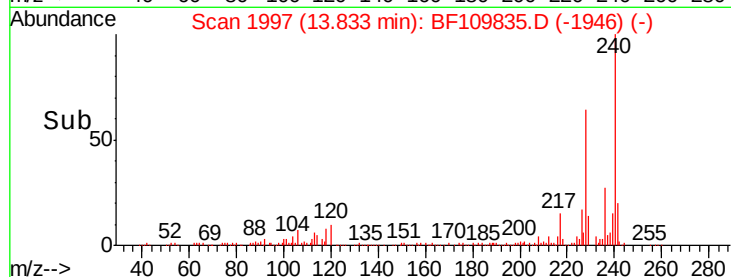
236 26.7 21.2 31.8



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: 64.965 ng

RT: 12.64 min Scan# 1794

Delta R.T. 0.00 min

Lab File: BF109835.D

Acq: 12 Oct 2018 15:57

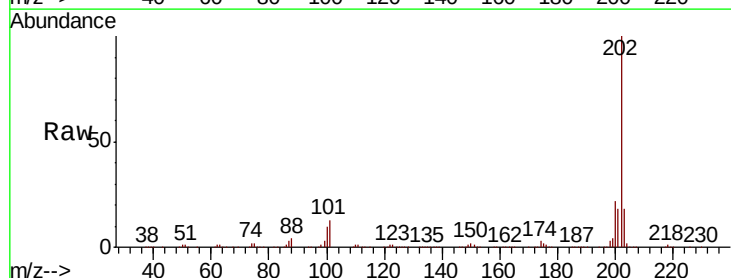
Tgt Ion:202 Resp: 998673

Ion Ratio Lower Upper

202 100

200 21.7 17.8 26.6

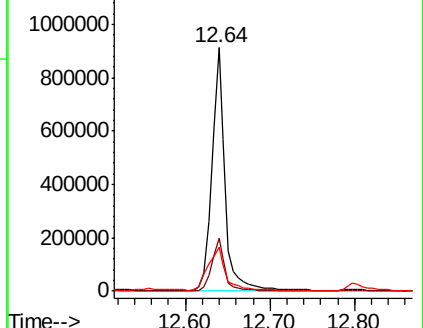
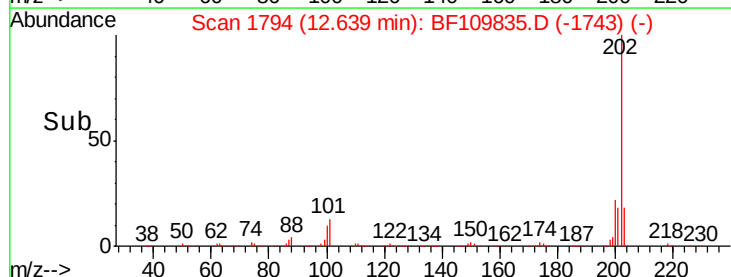
203 18.3 14.2 21.4

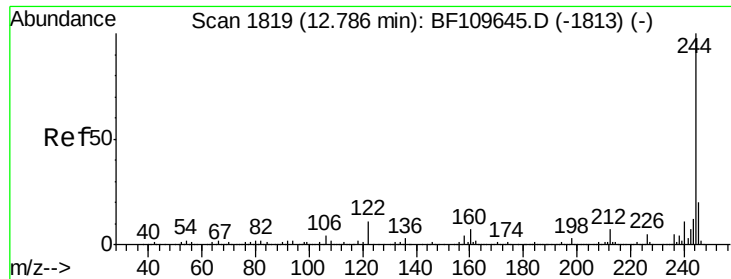


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 1.287 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF109835.D

Acq: 12 Oct 2018 15:57

Instrument :

BNA_F

ClientSampled :

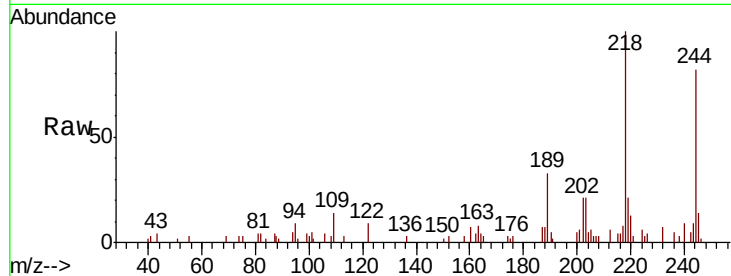
Tot Ion:244 Resp: 13945

Ion Ratio Lower Upper

244 100

212 7.9 5.8 8.8

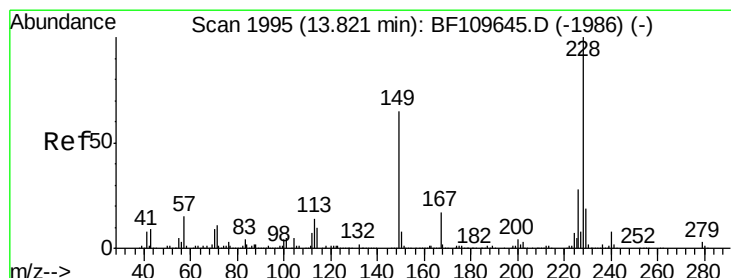
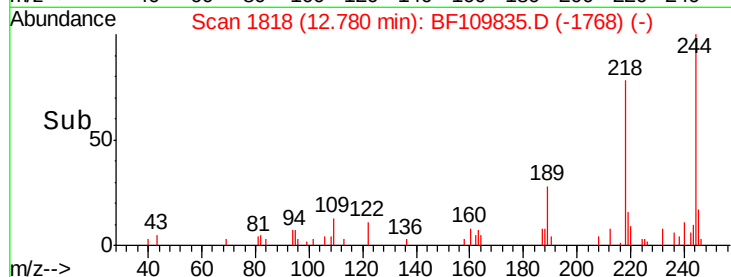
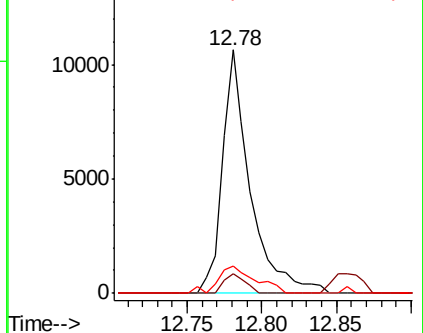
122 11.4 8.7 13.1



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: 41.439 ng

RT: 13.82 min Scan# 1995

Delta R.T. 0.00 min

Lab File: BF109835.D

Acq: 12 Oct 2018 15:57

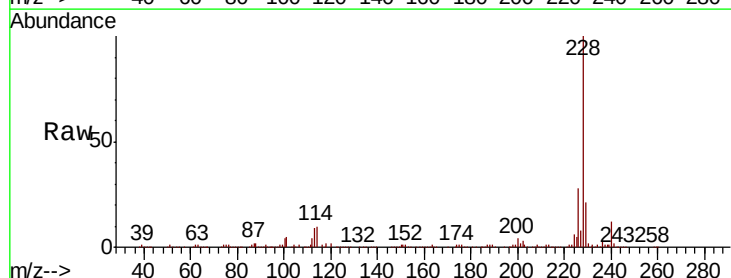
Tgt Ion:228 Resp: 479793

Ion Ratio Lower Upper

228 100

226 28.4 22.1 33.1

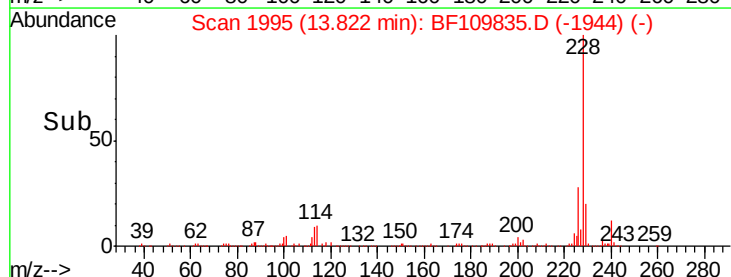
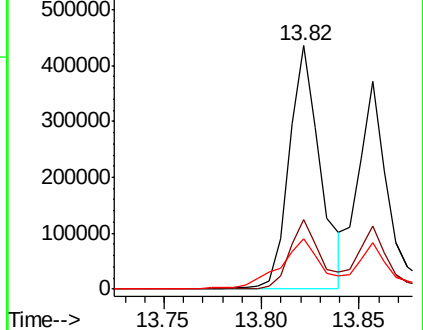
229 20.6 15.6 23.4

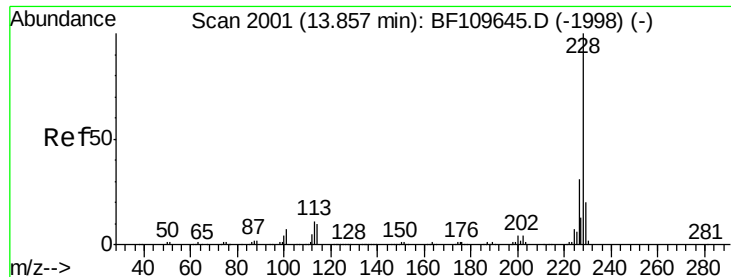


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

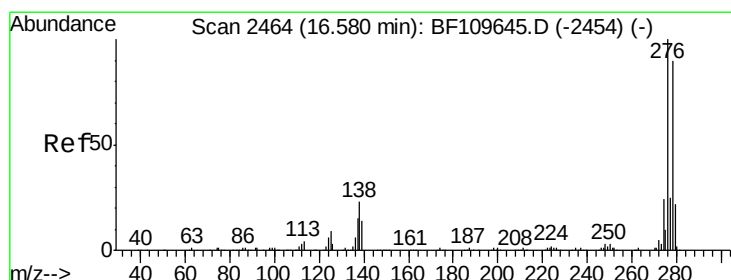
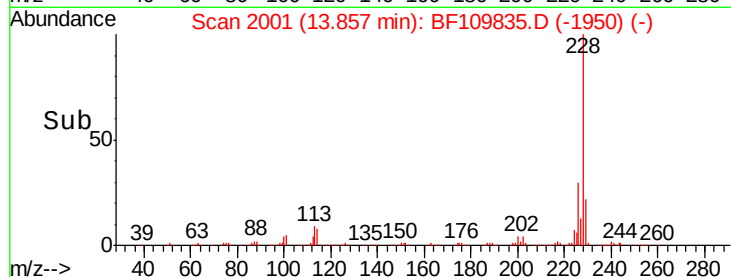
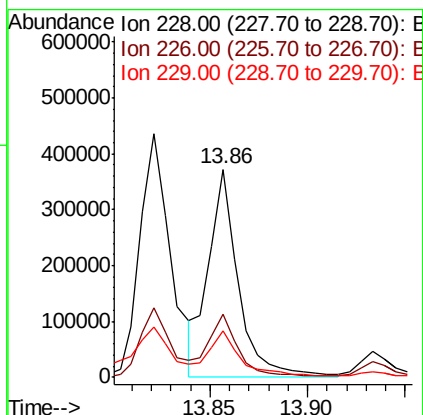
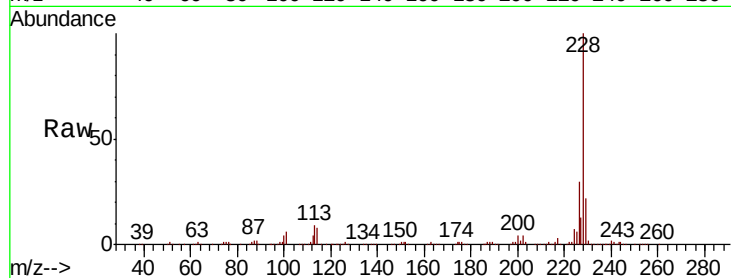




#82
Chrysene
Concen: 32.768 ng
RT: 13.86 min Scan# 2001
Delta R.T. 0.00 min
Lab File: BF109835.D
Acq: 12 Oct 2018 15:57

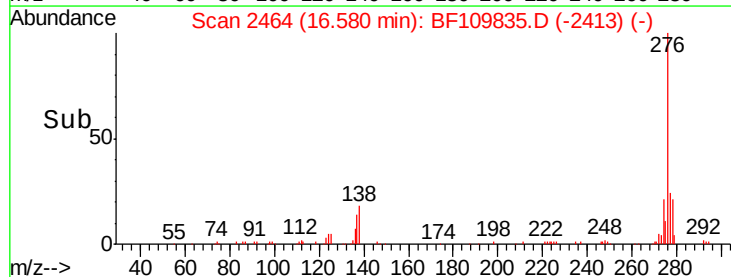
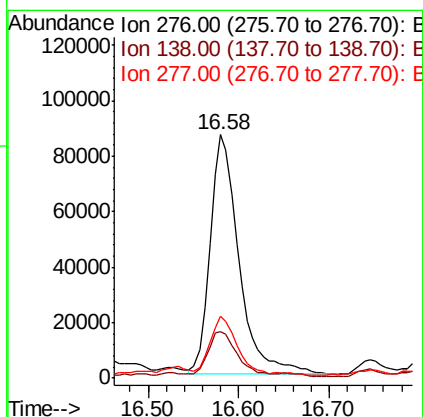
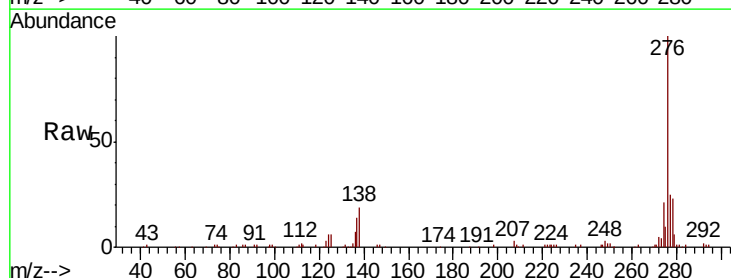
Instrument :
BNA_F
ClientSampled :

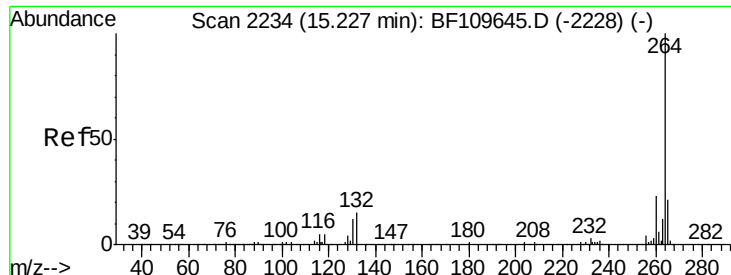
Tot Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.7	37.1
229	22.4	15.9	23.9



#85
Indeno(1,2,3-cd)pyrene
Concen: 21.951 ng
RT: 16.58 min Scan# 2464
Delta R.T. 0.00 min
Lab File: BF109835.D
Acq: 12 Oct 2018 15:57

Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.5	18.5	27.7#
277	20.7	20.0	30.0

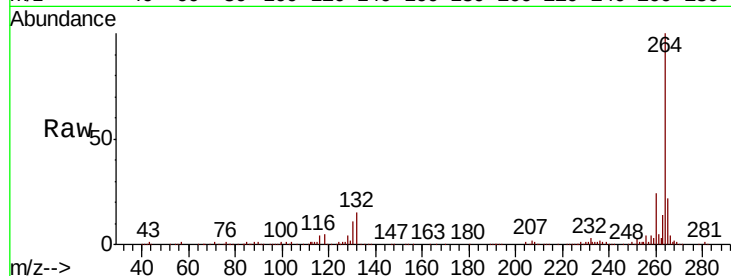




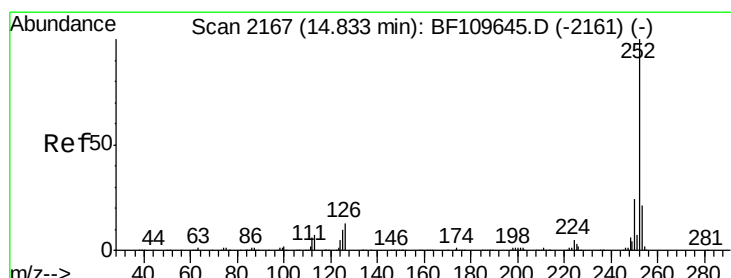
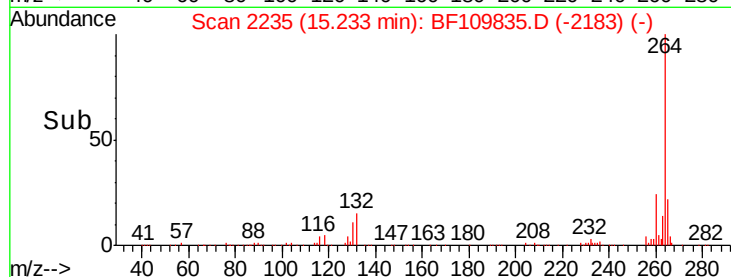
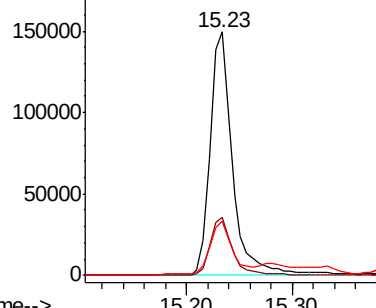
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.23 min Scan# 2235
Delta R.T. 0.01 min
Lab File: BF109835.D
Acq: 12 Oct 2018 15:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 216341
Ion Ratio Lower Upper
264 100
260 23.7 18.7 28.1
265 22.1 16.7 25.1

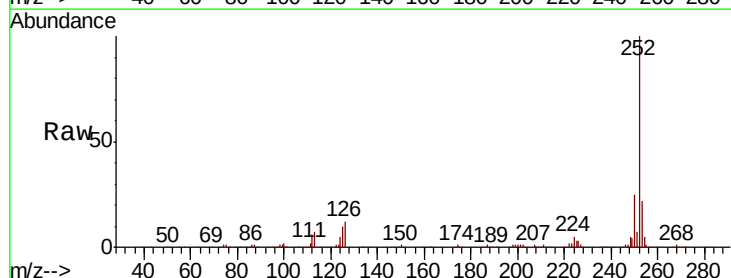


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

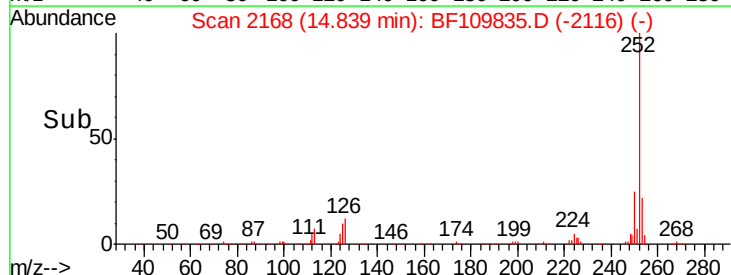
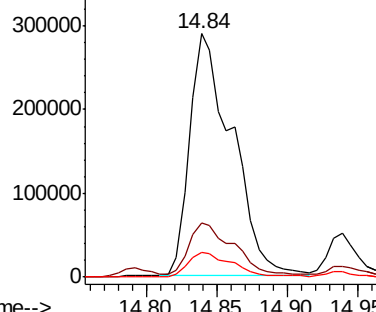


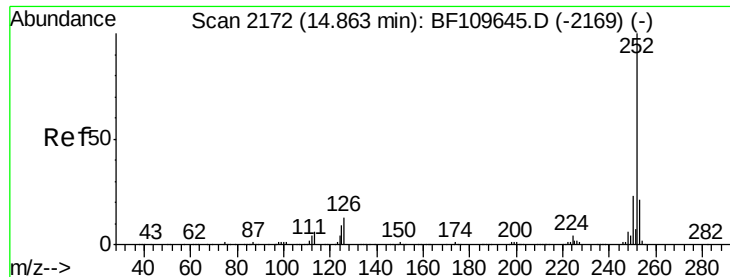
#87
Benzo(b)fluoranthene
Concen: 51.006 ng
RT: 14.84 min Scan# 2168
Delta R.T. 0.01 min
Lab File: BF109835.D
Acq: 12 Oct 2018 15:57

Tgt Ion:252 Resp: 609798
Ion Ratio Lower Upper
252 100
253 22.0 17.2 25.8
125 10.1 8.2 12.4



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

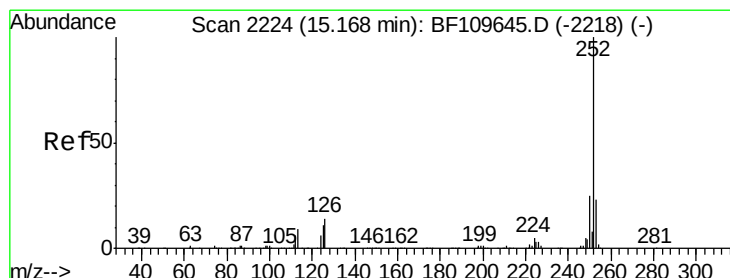
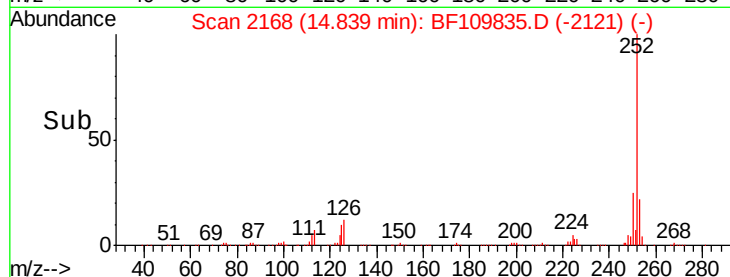
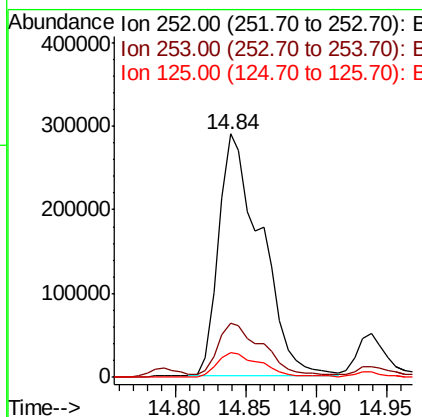
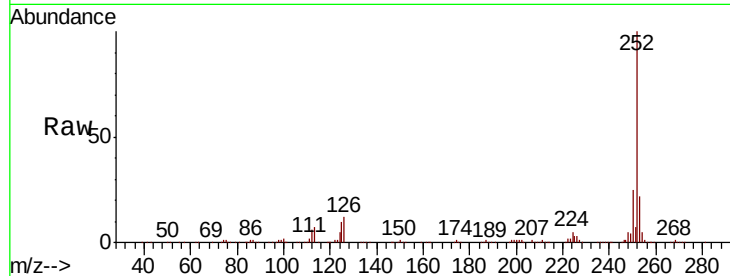




#88
Benzo(k)fluoranthene
Concen: 50.765 ng
RT: 14.84 min Scan# 2168
Delta R.T. -0.02 min
Lab File: BF109835.D
Acq: 12 Oct 2018 15:57

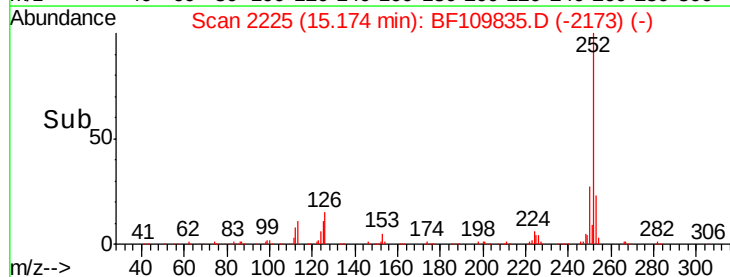
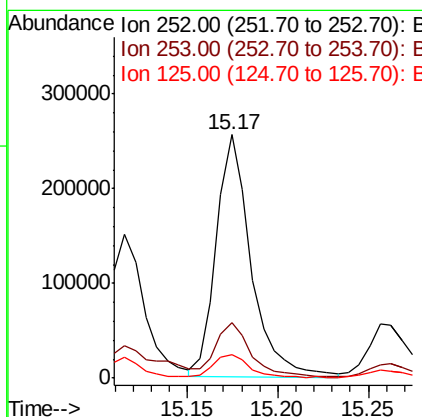
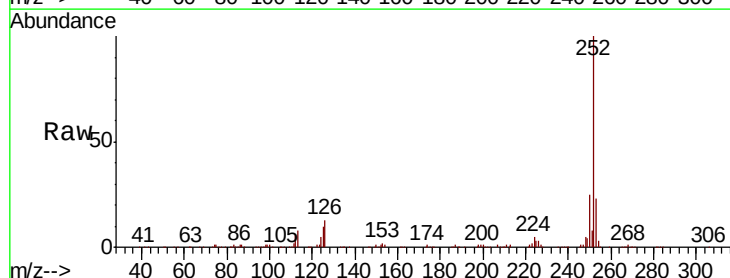
Instrument :
BNA_F
ClientSampleId :

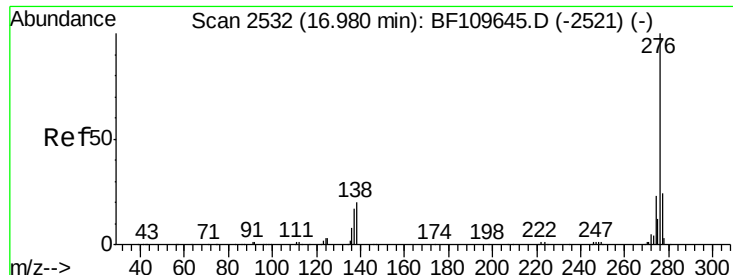
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.2	25.8
125	10.1	7.4	11.0



#89
Benzo(a)pyrene
Concen: 31.619 ng
RT: 15.17 min Scan# 2225
Delta R.T. 0.01 min
Lab File: BF109835.D
Acq: 12 Oct 2018 15:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.4
125	9.8	9.0	13.6





#91

Benzo(a,h,i)perylene

Concen: 18.430 ng

RT: 16.99 min Scan# 2533

Delta R.T. 0.01 min

Lab File: BF109835.D

Acq: 12 Oct 2018 15:57

Instrument :

BNA_F

ClientSampleId :

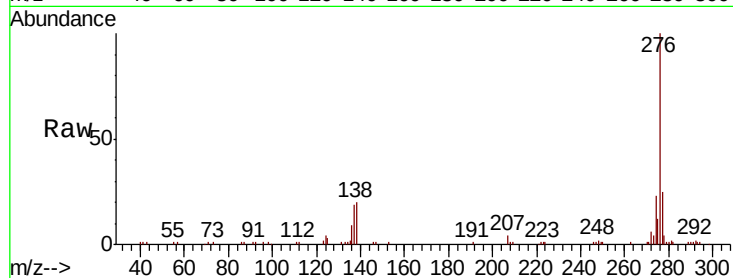
Tot Ion:276 Resp: 163986

Ion Ratio Lower Upper

276 100

277 25.0 18.8 28.2

138 20.2 16.0 24.0



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

