

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083118\
 Data File : BF108697.D
 Acq On : 31 Aug 2018 18:56
 Operator : JU/SJ
 Sample : J4720-02 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 01 03:48:03 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 30 15:06:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	60132	20.00	ng	0.00
21) Naphthalene-d8	8.28	136	285427	20.00	ng	0.00
38) Acenaphthene-d10	10.04	164	119292	20.00	ng	0.00
63) Phenanthrene-d10	11.54	188	214272	20.00	ng	0.00
75) Chrysene-d12	14.19	240	222173	20.00	ng	0.00
86) Perylene-d12	15.75	264	165429	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.74	112	5084	1.47	ng	0.09
7) Phenol-d6	6.70	99	9672	1.95	ng	0.05
23) Nitrobenzene-d5	7.60	82	10148	1.80	ng	0.03
41) 2,4,6-Tribromophenol	10.85	330	13628	8.65	ng	0.00
44) 2-Fluorobiphenyl	9.35	172	88387	9.96	ng	0.00
78) Terphenyl-d14	13.12	244	88716	7.76	ng	0.00

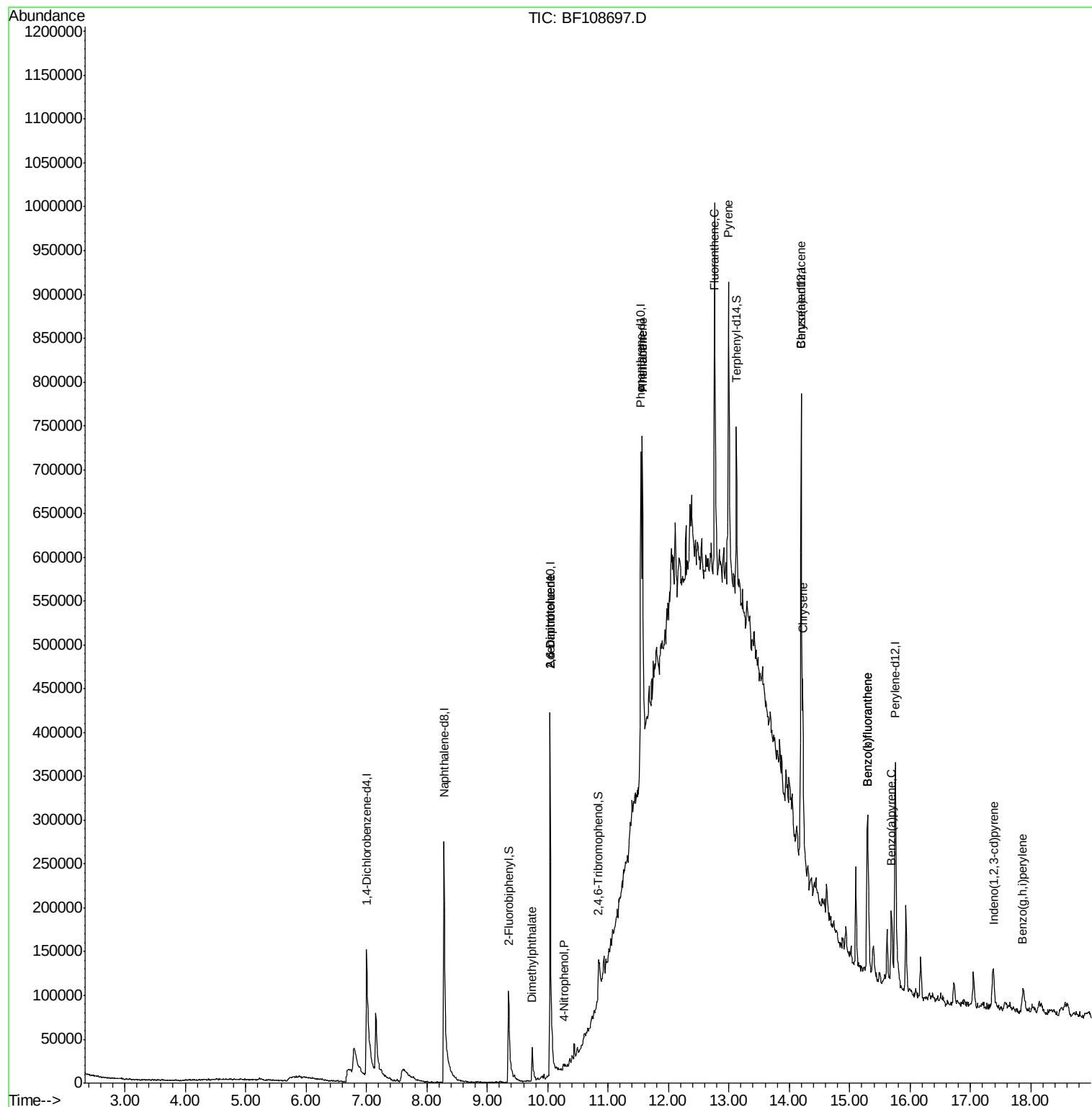
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
49) Dimethylphthalate	9.75	163	29459	3.136	ng	# 99
50) 2,6-Dinitrotoluene	10.04	165	14890	7.191	ng	# 24
55) 4-Nitrophenol	10.27	139	3081	6.787	ng	# 36
56) 2,4-Dinitrotoluene	10.04	165	15622	5.698	ng	# 21
70) Phenanthrene	11.57	178	210568	19.469	ng	99
71) Anthracene	11.57	178	210568	18.529	ng	99
74) Fluoranthene	12.77	202	258537	21.237	ng	94
77) Pyrene	12.99	202	197267	11.812	ng	98
80) Benzo(a)anthracene	14.19	228	44432	3.281	ng	96
82) Chrysene	14.22	228	97880	7.515	ng	98
85) Indeno(1,2,3-cd)pyrene	17.38	276	35214	3.888	ng	# 87
87) Benzo(b)fluoranthene	15.28	252	130595	12.851	ng	98
88) Benzo(k)fluoranthene	15.28	252	130595	12.973	ng	# 96
89) Benzo(a)pyrene	15.69	252	56170	6.116	ng	96
91) Benzo(a,h,i)perylene	17.87	276	29957	4.202	ng	# 91

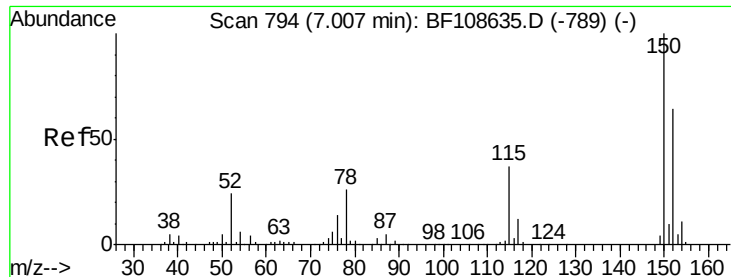
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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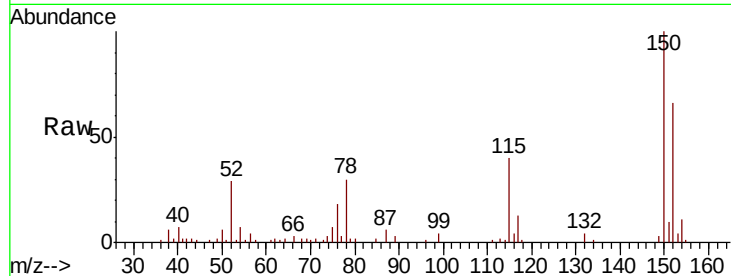


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.00 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF108697.D
Acq: 31 Aug 2018 18:56

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.0	124.6	186.8
115	61.1	50.1	75.1

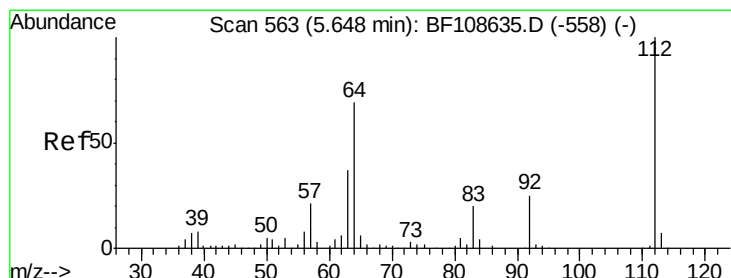
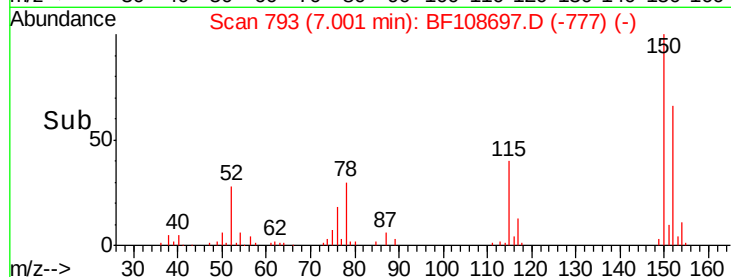
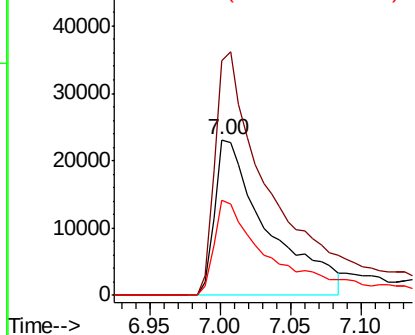


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

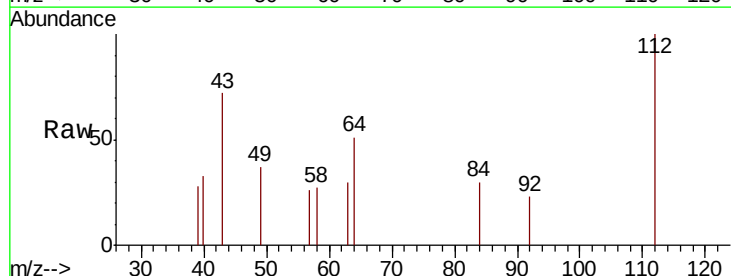
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 1.469 ng
RT: 5.74 min Scan# 578
Delta R.T. 0.09 min
Lab File: BF108697.D
Acq: 31 Aug 2018 18:56

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.4	47.9	71.9
63	29.6	23.7	35.5

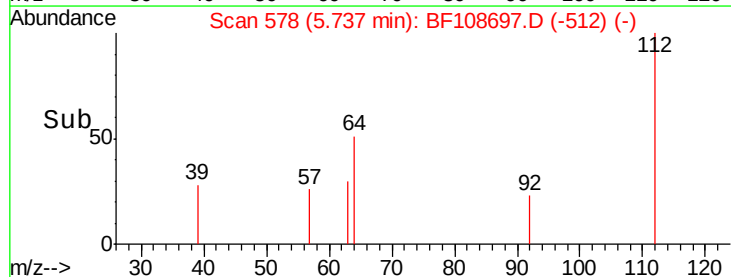
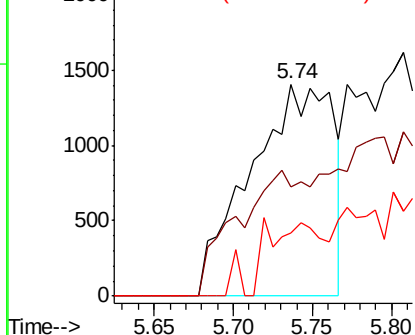


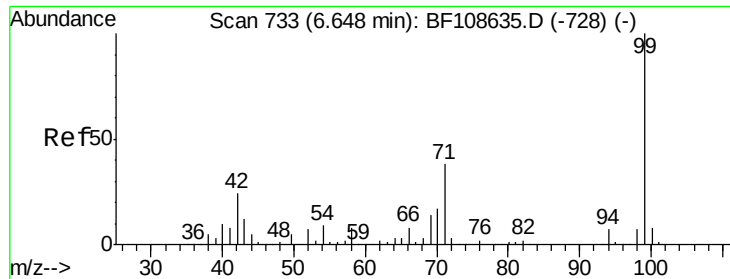
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 1.951 ng

RT: 6.70 min Scan# 741

Delta R.T. 0.05 min

Lab File: BF108697.D

Acq: 31 Aug 2018 18:56

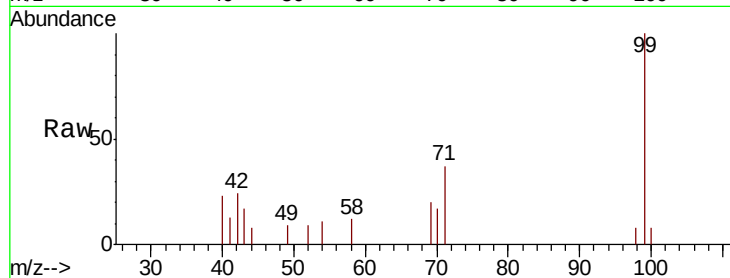
Instrument :

BNA_F

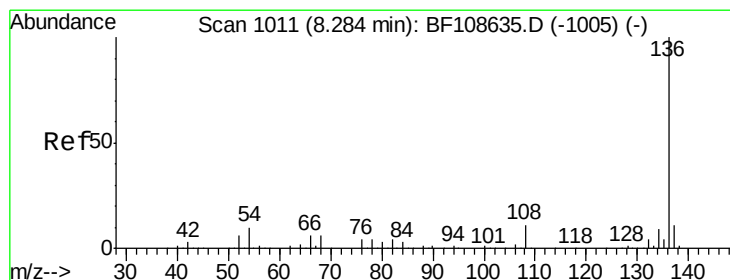
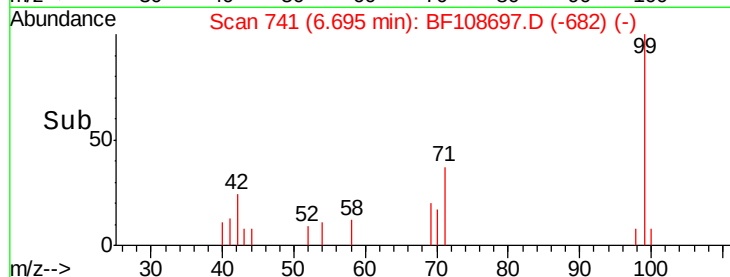
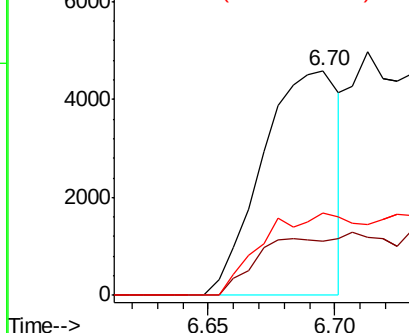
ClientSampleId :

Tot Ion: 99 Resp: 9672

Ion	Ratio	Lower	Upper
99	100		
42	24.1	14.5	21.7#
71	36.8	25.4	38.0



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: 8.28 min Scan# 1011

Delta R.T. -0.00 min

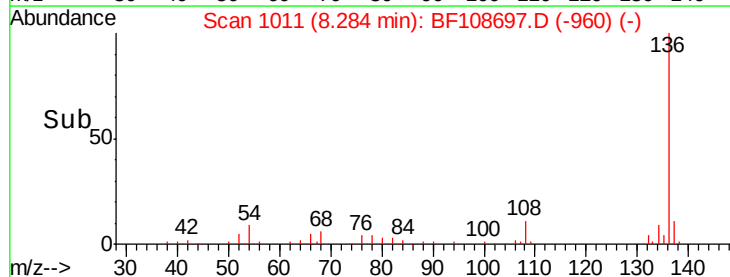
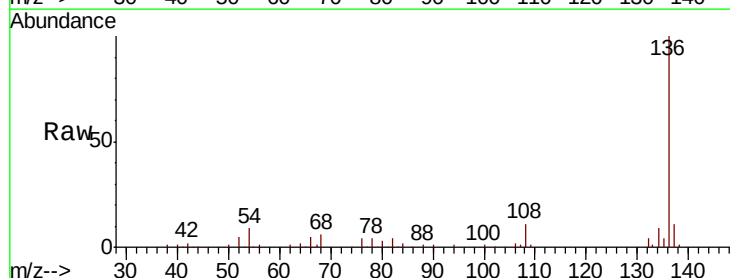
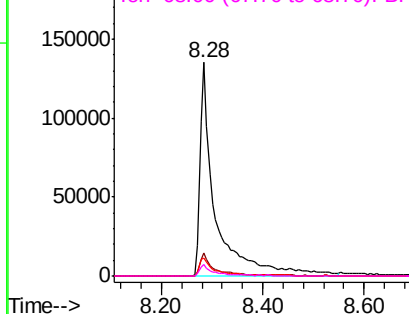
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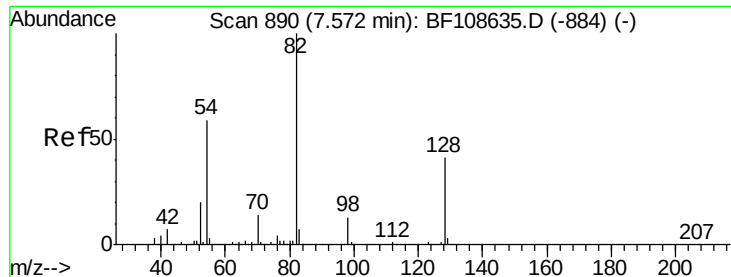
Acq: 31 Aug 2018 18:56

Tgt Ion: 136 Resp: 285427

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.9	13.3
54	8.6	6.6	9.8
68	5.6	5.0	7.4

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

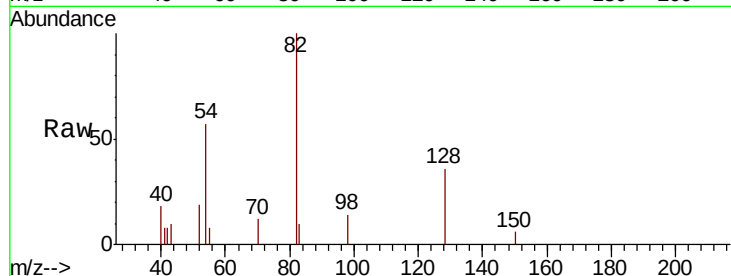




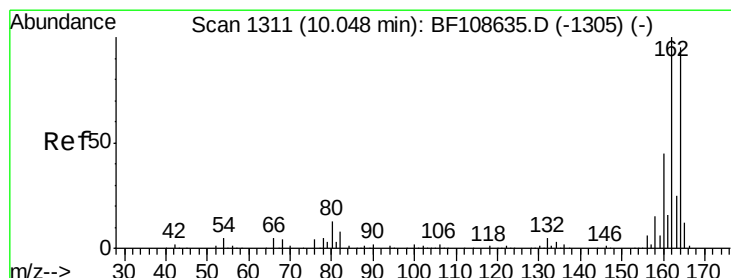
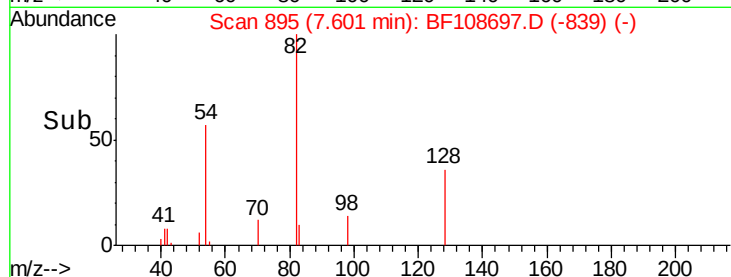
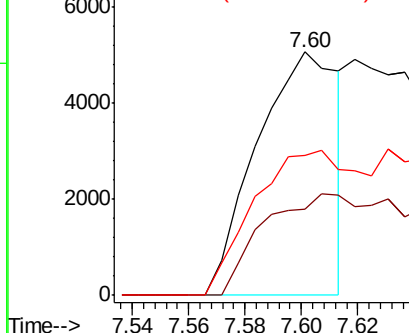
#23
 Nitrobenzene-d5
 Concen: 1.805 ng
 RT: 7.60 min Scan# 895
 Delta R.T. 0.03 min
 Lab File: BF108697.D
 Acq: 31 Aug 2018 18:56

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion: 82 Resp: 10148
 Ion Ratio Lower Upper
 82 100
 128 35.6 36.1 54.1#
 54 57.4 41.4 62.2

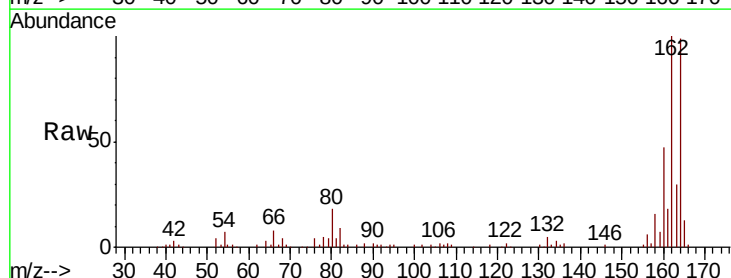


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1

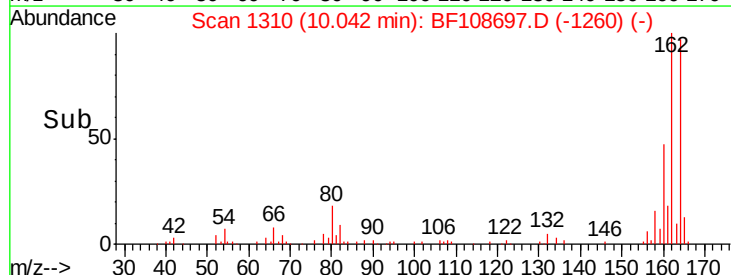
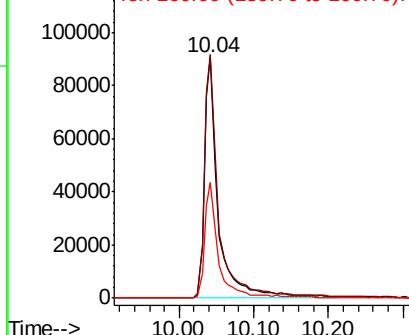


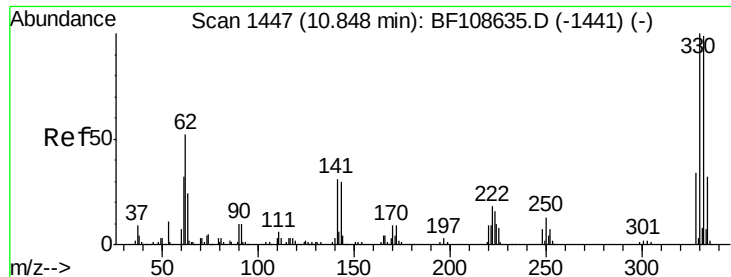
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.04 min Scan# 1310
 Delta R.T. -0.01 min
 Lab File: BF108697.D
 Acq: 31 Aug 2018 18:56

Tgt Ion:164 Resp: 119292
 Ion Ratio Lower Upper
 164 100
 162 101.2 86.1 129.1
 160 47.9 38.3 57.5



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

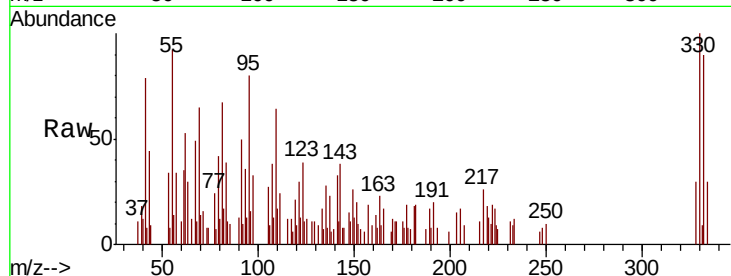




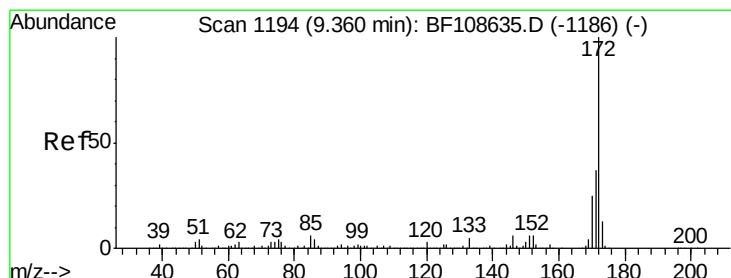
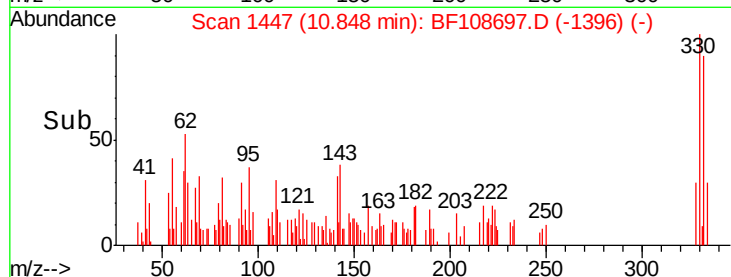
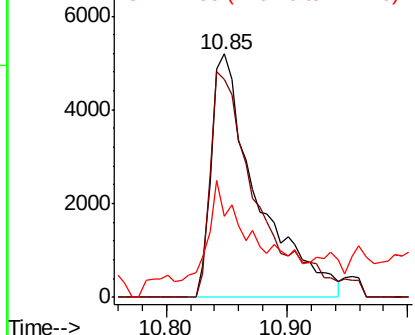
#41
 2,4,6-Tribromophenol
 Concen: 8.654 ng
 RT: 10.85 min Scan# 1447
 Delta R.T. 0.00 min
 Lab File: BF108697.D
 Acq: 31 Aug 2018 18:56

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.9	77.0	115.6
141	29.3	29.9	44.9#

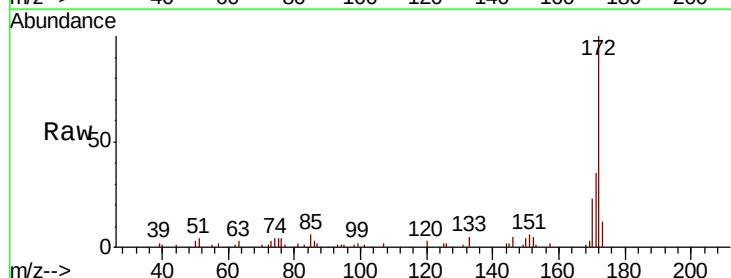


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

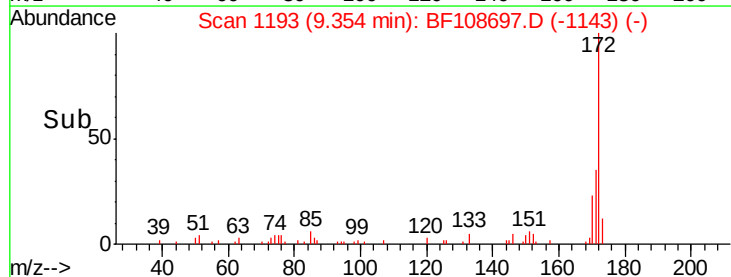
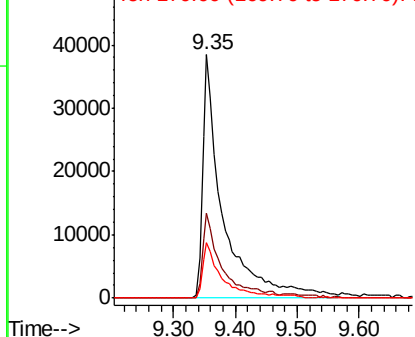


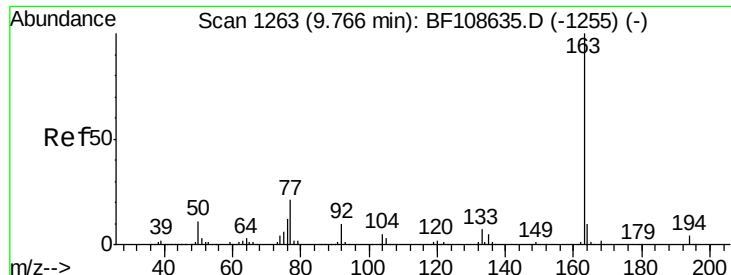
#44
 2-Fluorobiphenyl
 Concen: 9.962 ng
 RT: 9.35 min Scan# 1193
 Delta R.T. -0.01 min
 Lab File: BF108697.D
 Acq: 31 Aug 2018 18:56

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	29.7	44.5
170	22.6	19.6	29.4



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

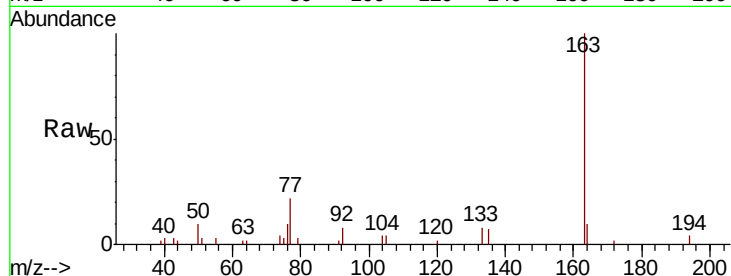




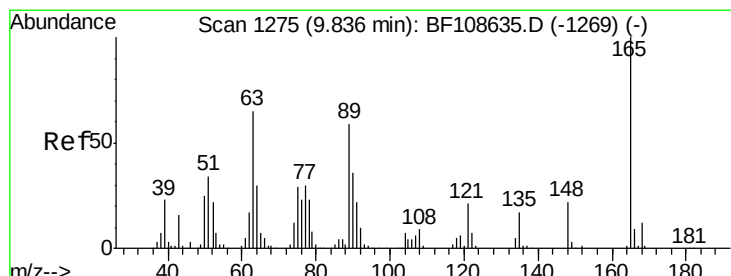
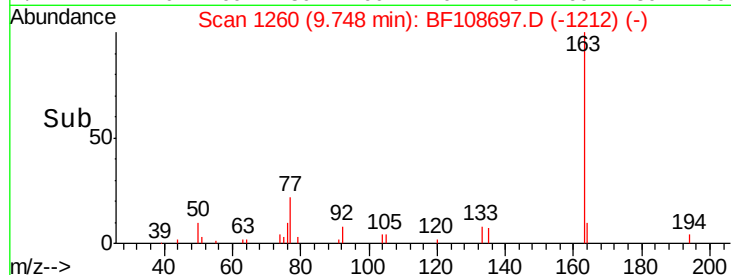
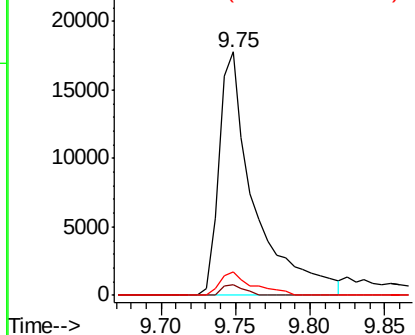
#49
Dimethylphthalate
Concen: 3.136 ng
RT: 9.75 min Scan# 1260
Delta R.T. -0.02 min
Lab File: BF108697.D
Acq: 31 Aug 2018 18:56

Instrument :
BNA_F
ClientSampled :

Tot Ion:163 Resp: 29459
Ion Ratio Lower Upper
163 100
194 4.3 2.7 4.1#
164 9.8 8.2 12.2

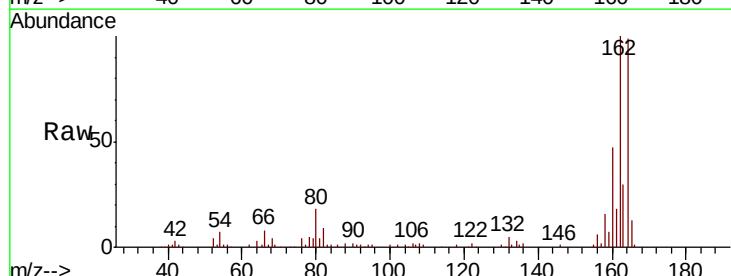


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

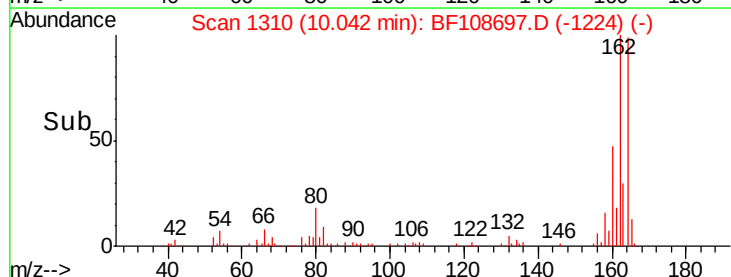
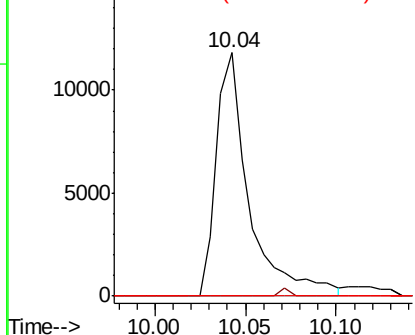


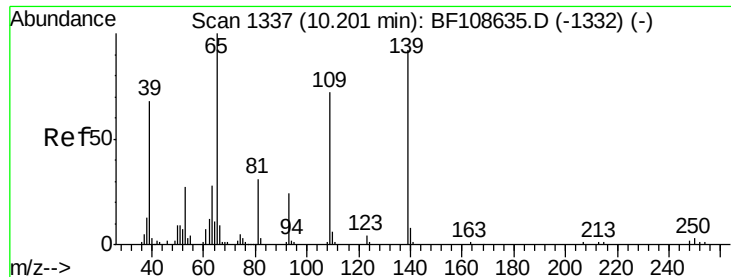
#50
2,6-Dinitrotoluene
Concen: 7.191 ng
RT: 10.04 min Scan# 1310
Delta R.T. 0.21 min
Lab File: BF108697.D
Acq: 31 Aug 2018 18:56

Tgt Ion:165 Resp: 14890
Ion Ratio Lower Upper
165 100
63 0.0 44.7 67.1#
89 0.0 44.0 66.0#



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

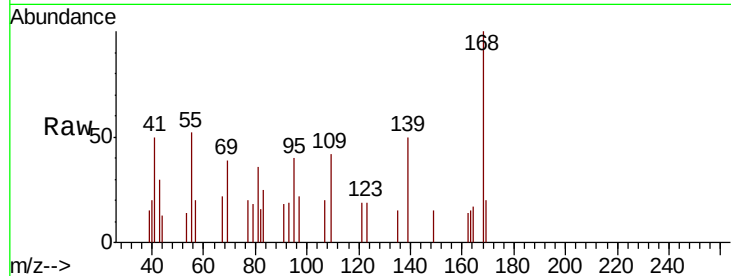




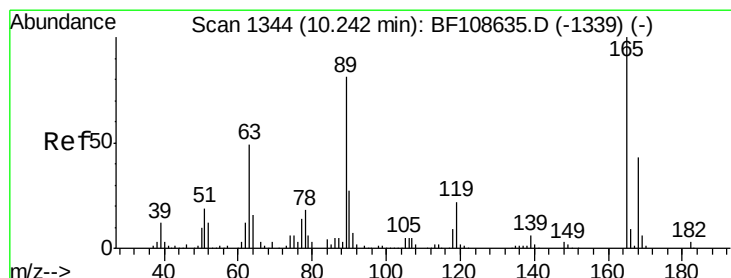
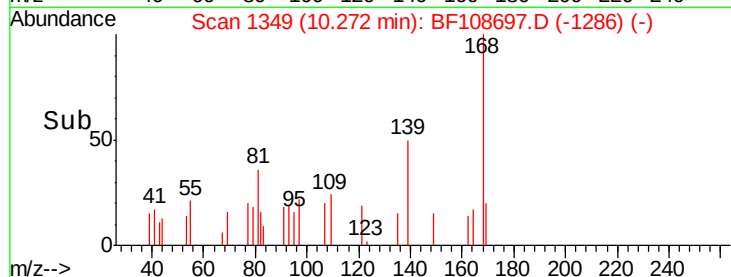
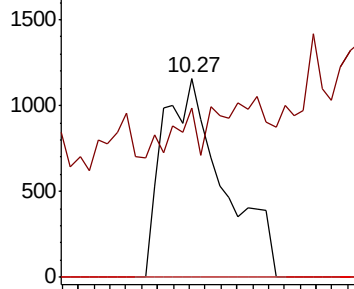
#55
4-Nitrophenol
Concen: 6.787 ng
RT: 10.27 min Scan# 1349
Delta R.T. 0.07 min
Lab File: BF108697.D
Acq: 31 Aug 2018 18:56

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 3081
Ion Ratio Lower Upper
139 100
109 84.8 48.4 88.4
65 0.0 72.6 112.6#

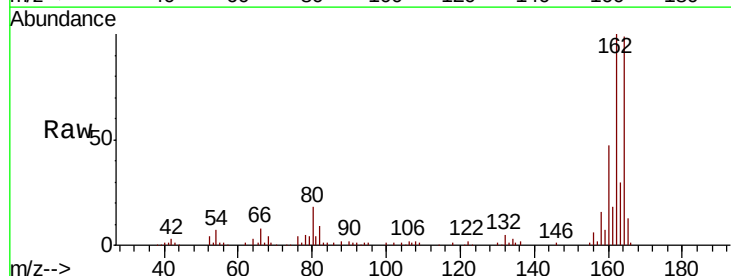


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

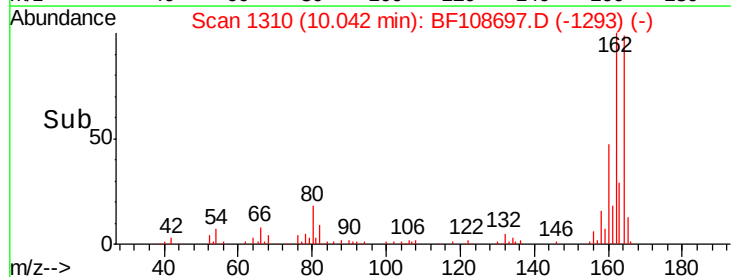
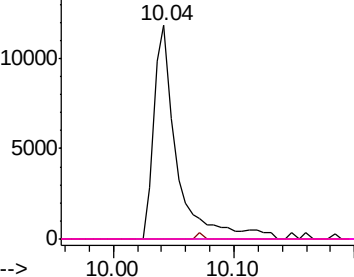


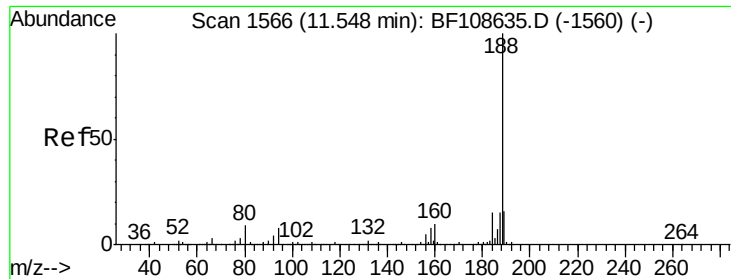
#56
2,4-Dinitrotoluene
Concen: 5.698 ng
RT: 10.04 min Scan# 1310
Delta R.T. -0.20 min
Lab File: BF108697.D
Acq: 31 Aug 2018 18:56

Tgt Ion:165 Resp: 15622
Ion Ratio Lower Upper
165 100
63 0.0 36.4 54.6#
89 0.0 57.8 86.6#
182 0.0 1.6 2.4#



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
Ion 182.00 (181.70 to 182.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.54 min Scan# 1565

Delta R.T. -0.01 min

Lab File: BF108697.D

Acq: 31 Aug 2018 18:56

Instrument :

BNA_F

ClientSampleId :

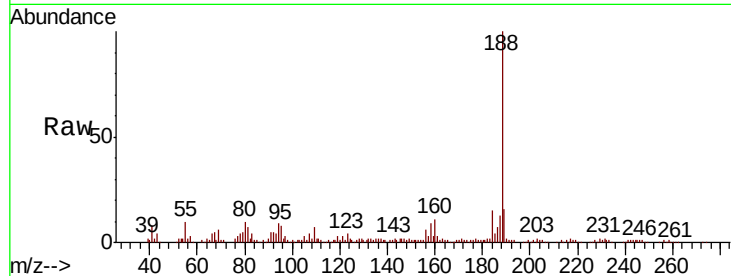
Tot Ion:188 Resp: 214272

Ion Ratio Lower Upper

188 100

94 9.1 8.5 12.7

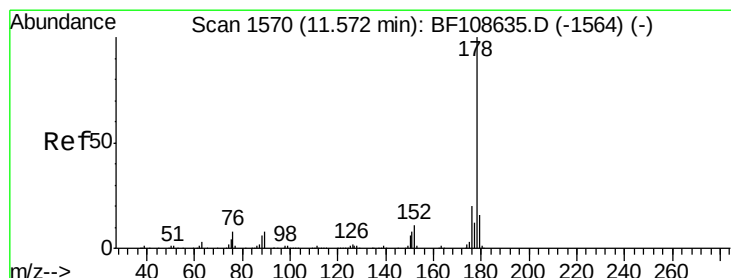
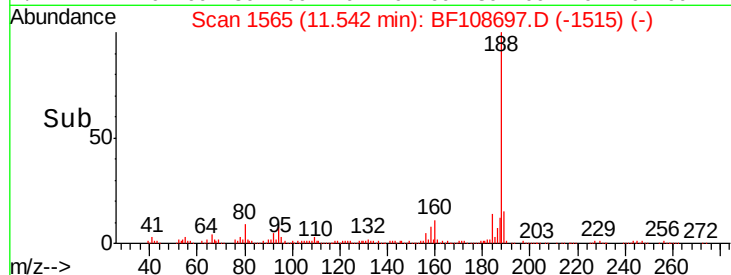
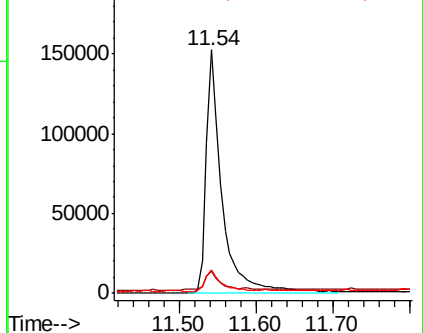
80 9.5 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#70

Phenanthrene

Concen: 19.469 ng

RT: 11.57 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF108697.D

Acq: 31 Aug 2018 18:56

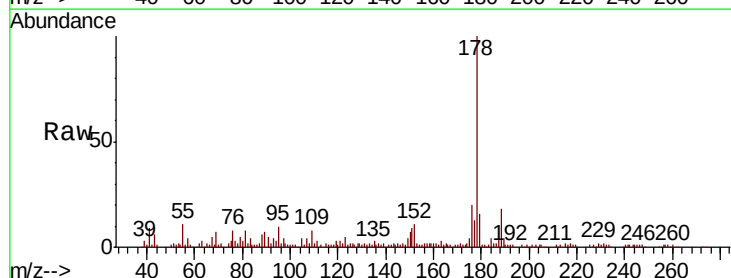
Tgt Ion:178 Resp: 210568

Ion Ratio Lower Upper

178 100

176 20.1 15.8 23.8

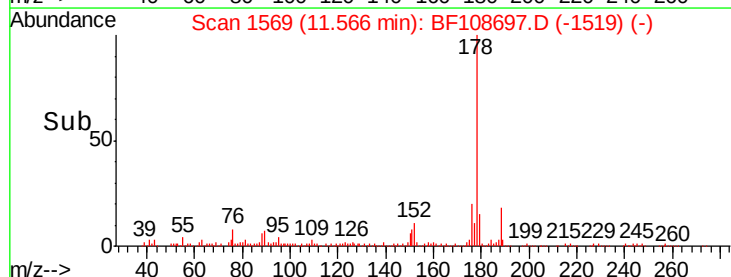
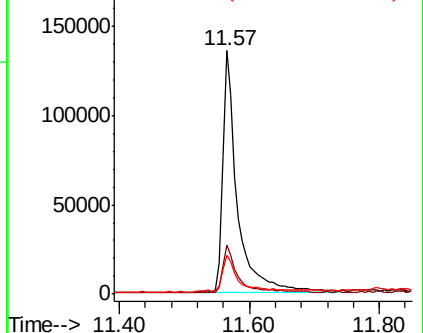
179 15.7 13.0 19.6

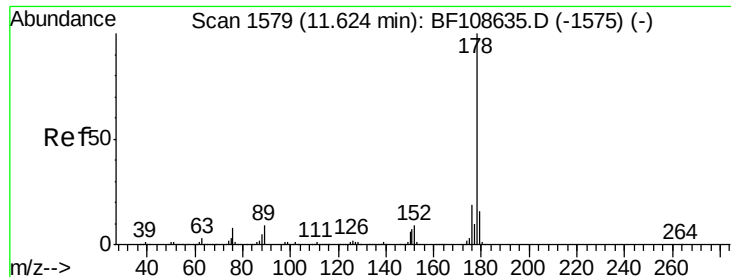


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

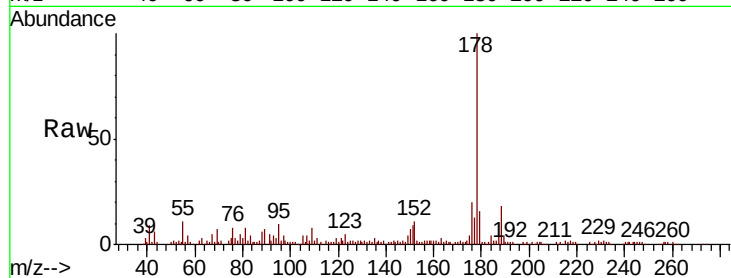




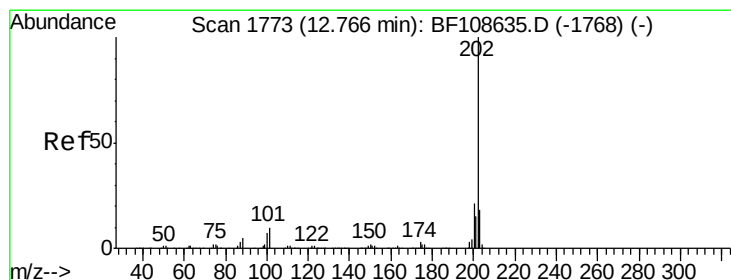
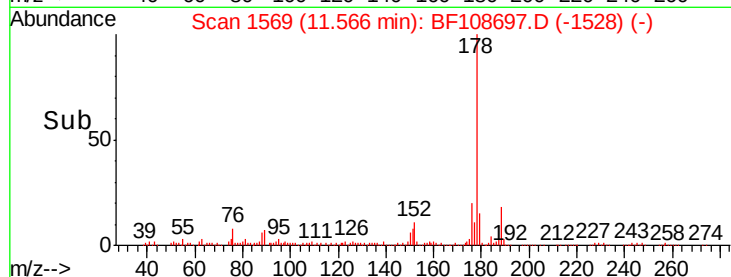
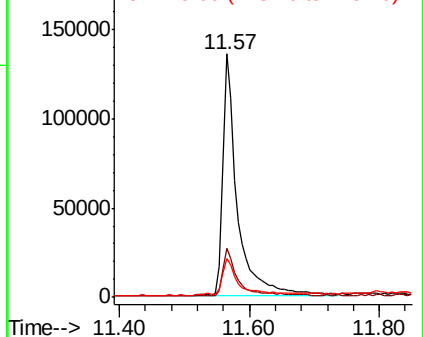
#71
 Anthracene
 Concen: 18.529 ng
 RT: 11.57 min Scan# 1569
 Delta R.T. -0.06 min
 Lab File: BF108697.D
 Acq: 31 Aug 2018 18:56

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.4	23.2
179	15.7	12.6	19.0

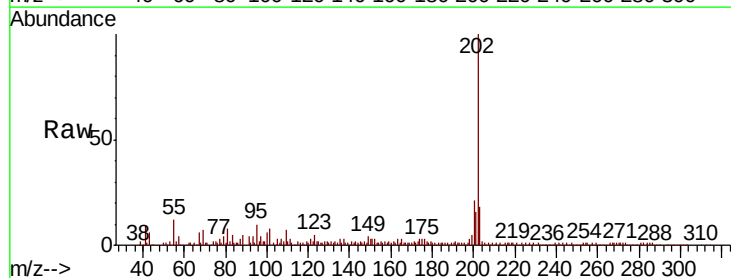


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

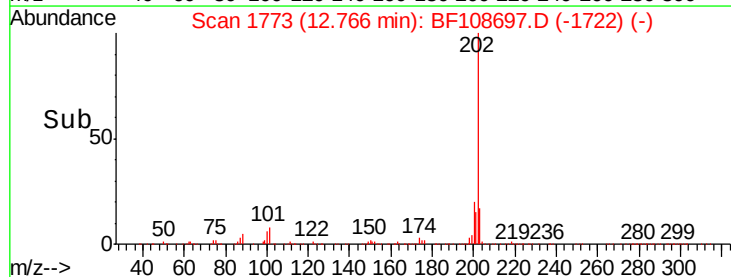
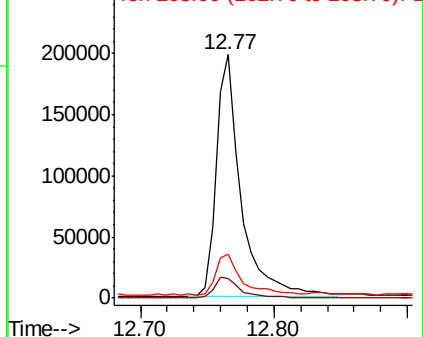


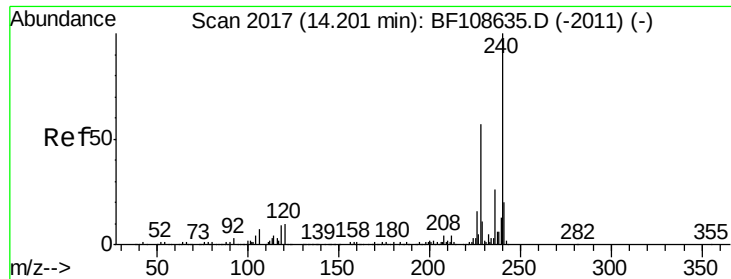
#74
 Fluoranthene
 Concen: 21.237 ng
 RT: 12.77 min Scan# 1773
 Delta R.T. -0.00 min
 Lab File: BF108697.D
 Acq: 31 Aug 2018 18:56

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.3	0.0	34.1
203	18.1	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: 20.000 ng

RT: 14.19 min Scan# 2016

Delta R.T. -0.01 min

Lab File: BF108697.D

Acq: 31 Aug 2018 18:56

Instrument :

BNA_F

ClientSampled :

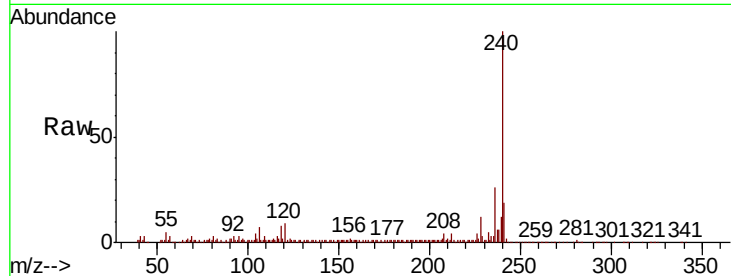
Tot Ion:240 Resp: 222173

Ion Ratio Lower Upper

240 100

120 8.9 9.5 14.3#

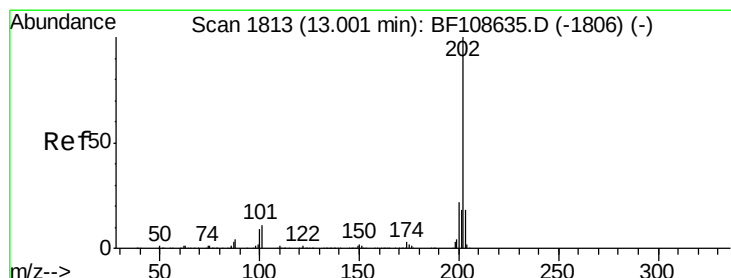
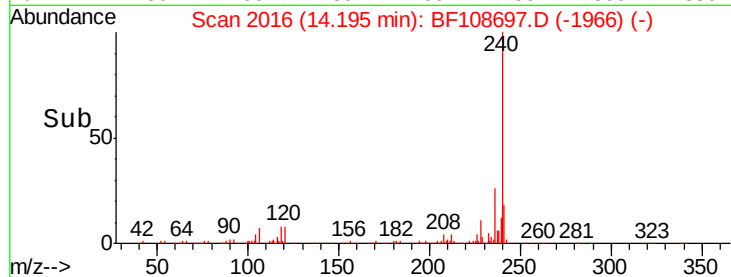
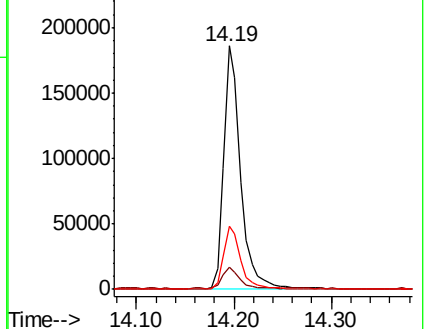
236 25.7 20.7 31.1



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: 11.812 ng

RT: 12.99 min Scan# 1812

Delta R.T. -0.01 min

Lab File: BF108697.D

Acq: 31 Aug 2018 18:56

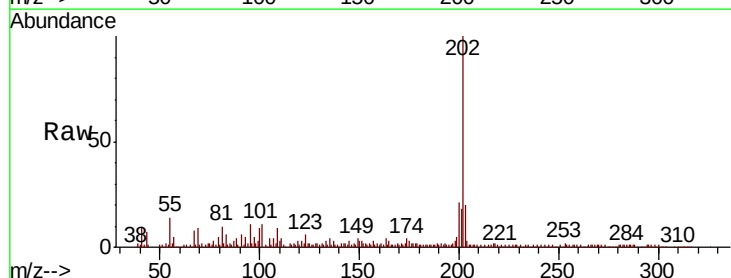
Tgt Ion:202 Resp: 197267

Ion Ratio Lower Upper

202 100

200 21.5 17.4 26.2

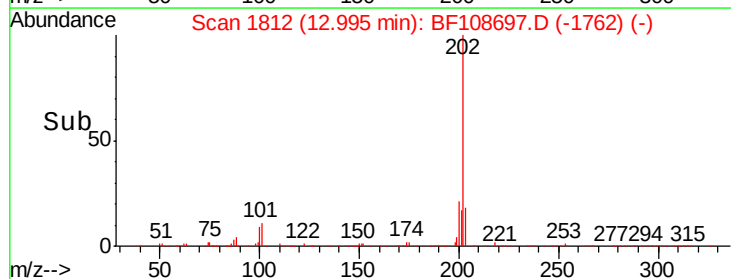
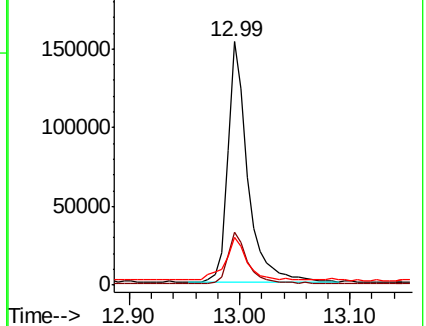
203 19.6 14.3 21.5

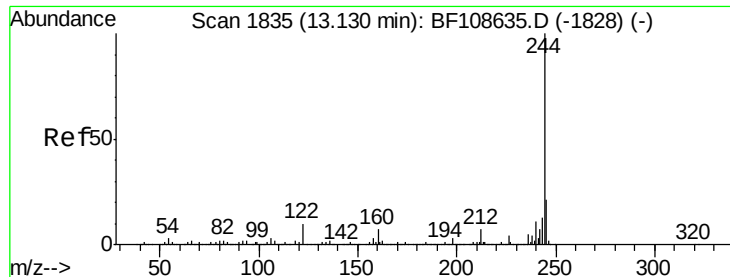


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 7.758 ng

RT: 13.12 min Scan# 1834

Delta R.T. -0.01 min

Lab File: BF108697.D

Acq: 31 Aug 2018 18:56

Instrument :

BNA_F

ClientSampleId :

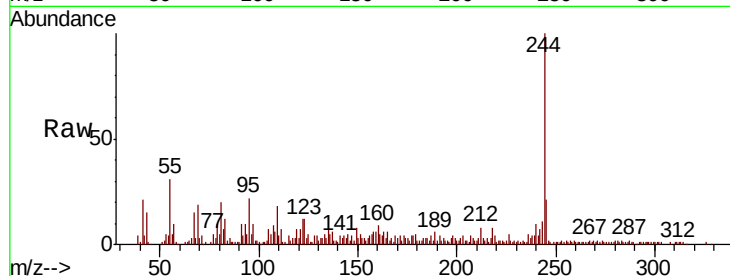
Tot Ion:244 Resp: 88716

Ion Ratio Lower Upper

244 100

212 7.9 5.4 8.0

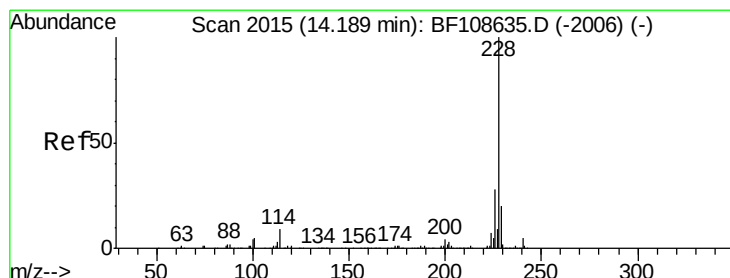
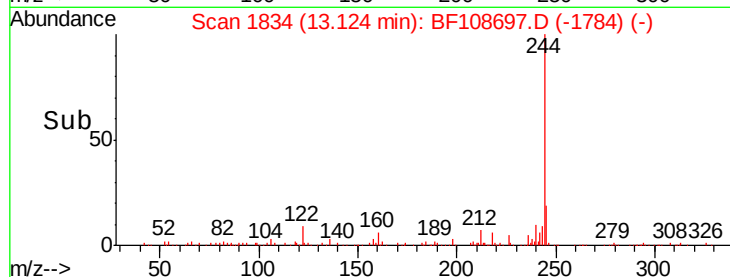
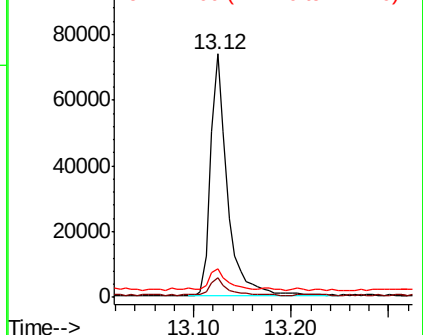
122 11.9 11.0 16.4



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: 3.281 ng

RT: 14.19 min Scan# 2015

Delta R.T. -0.00 min

Lab File: BF108697.D

Acq: 31 Aug 2018 18:56

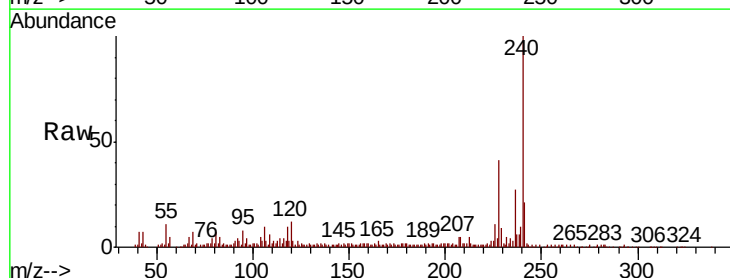
Tgt Ion:228 Resp: 44432

Ion Ratio Lower Upper

228 100

226 27.7 22.6 33.8

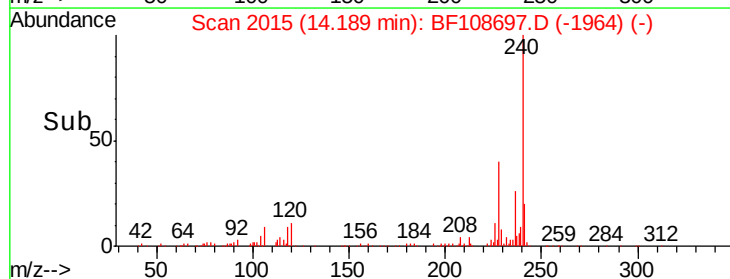
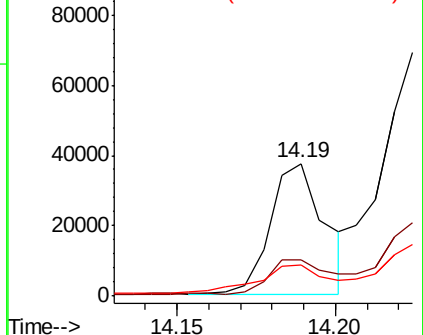
229 23.1 15.8 23.6

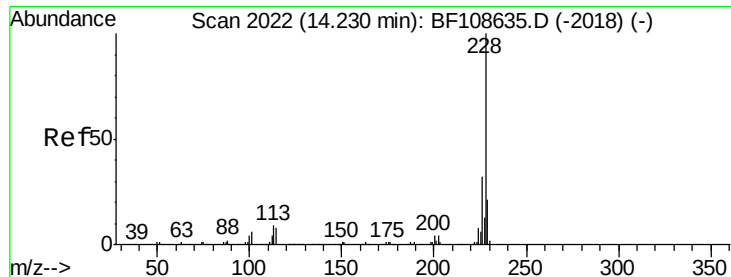


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 7.515 ng

RT: 14.22 min Scan# 2021

Delta R.T. -0.01 min

Lab File: BF108697.D

Acq: 31 Aug 2018 18:56

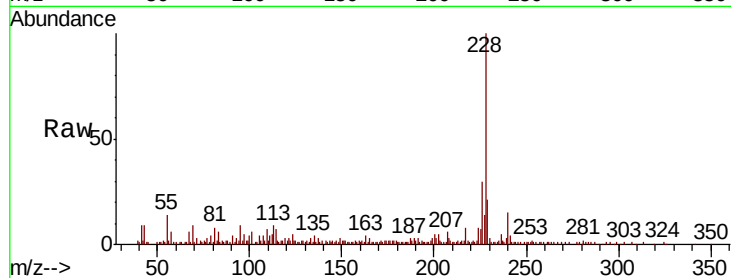
Instrument :

BNA_F

ClientSampled :

Tot Ion:228 Resp: 97880

Ion	Ratio	Lower	Upper
228	100		
226	30.0	25.0	37.6
229	21.2	16.2	24.4

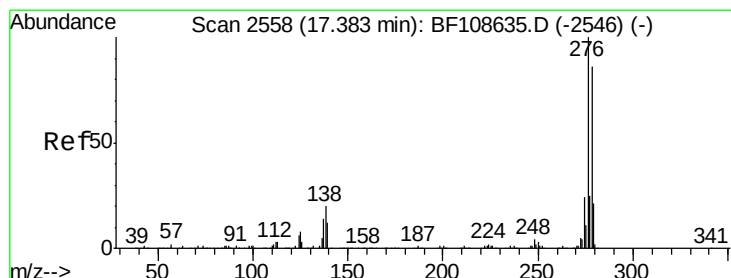
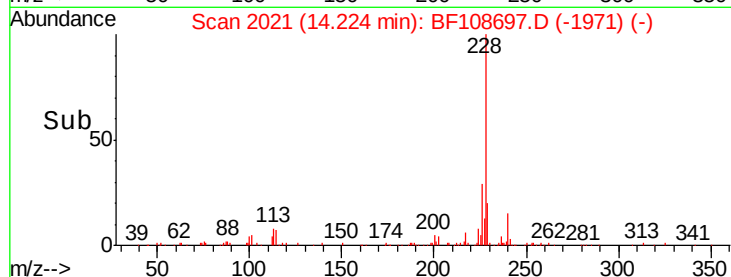
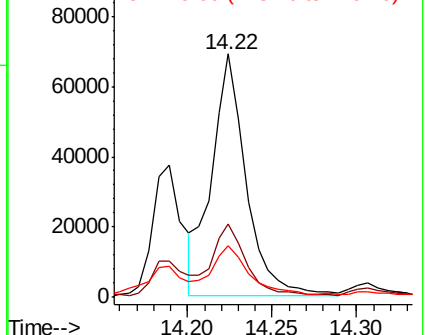


Abundance

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



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.888 ng

RT: 17.38 min Scan# 2557

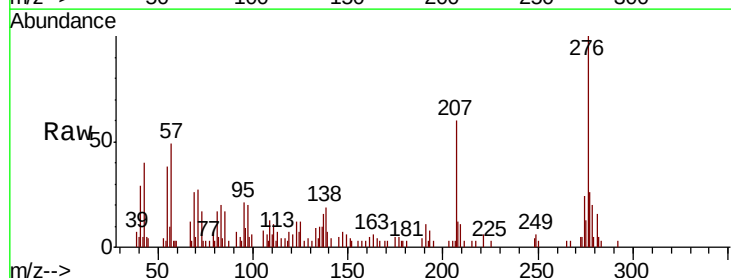
Delta R.T. -0.01 min

Lab File: BF108697.D

Acq: 31 Aug 2018 18:56

Tgt Ion:276 Resp: 35214

Ion	Ratio	Lower	Upper
276	100		
138	18.7	25.0	37.6#
277	25.4	20.1	30.1

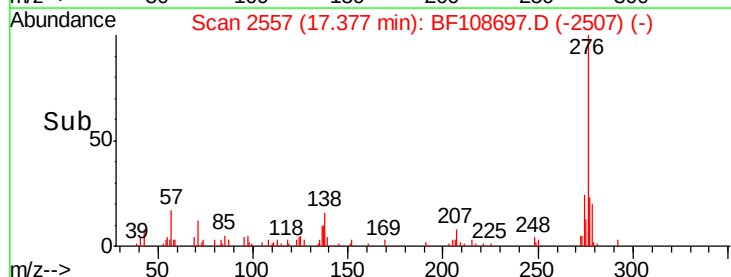
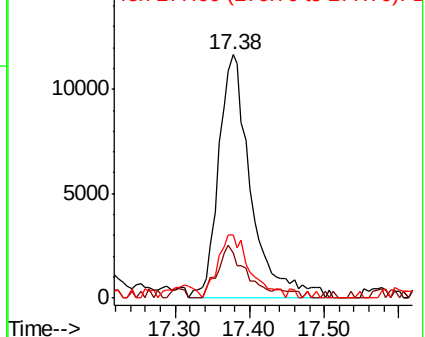


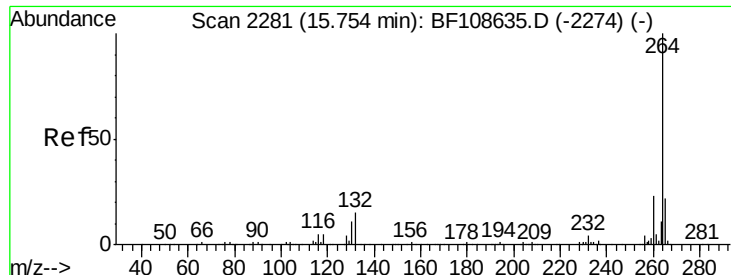
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

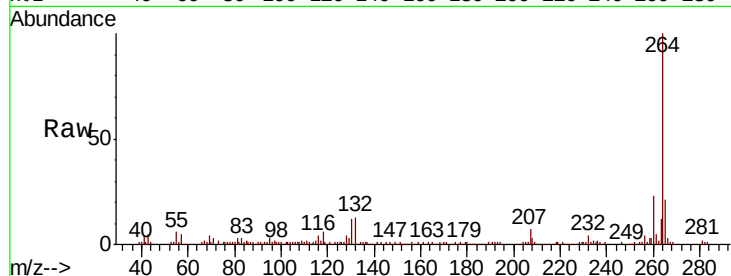




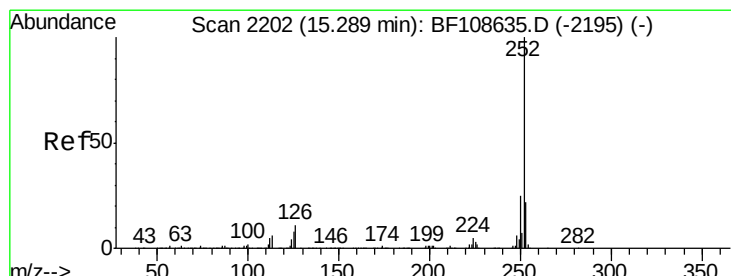
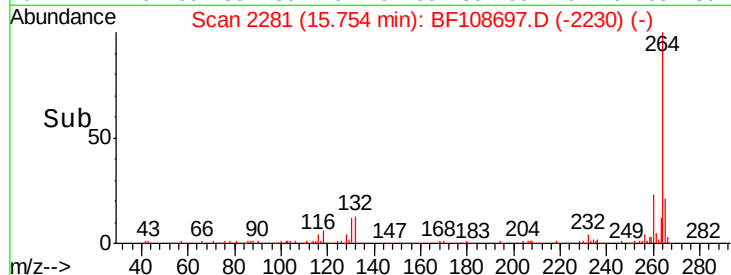
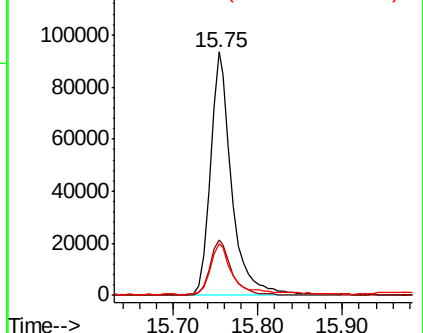
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.75 min Scan# 2281
Delta R.T. -0.00 min
Lab File: BF108697.D
Acq: 31 Aug 2018 18:56

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 165429
Ion Ratio Lower Upper
264 100
260 22.8 19.2 28.8
265 21.1 17.5 26.3

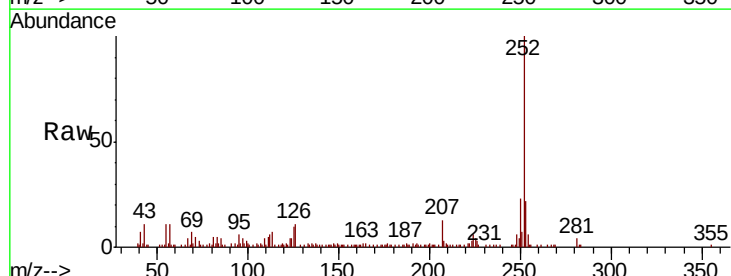


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

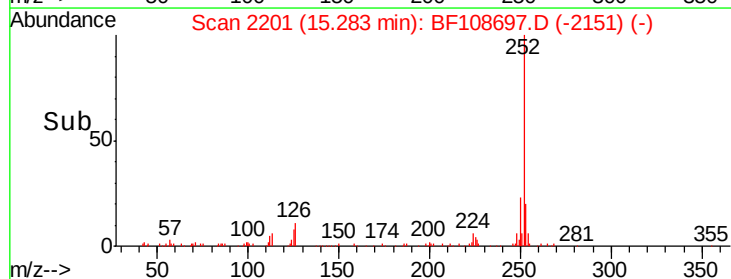
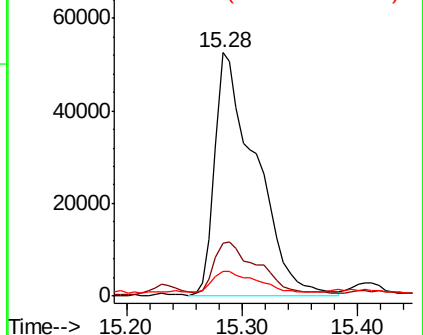


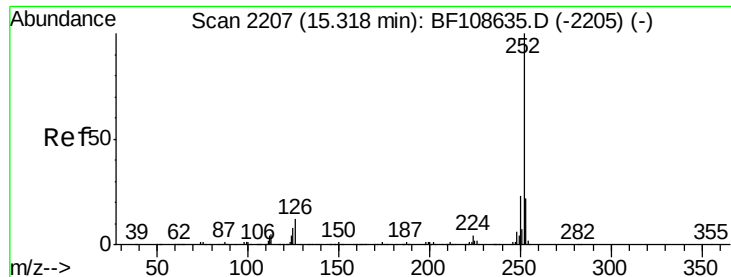
#87
Benzo(b)fluoranthene
Concen: 12.851 ng
RT: 15.28 min Scan# 2201
Delta R.T. -0.01 min
Lab File: BF108697.D
Acq: 31 Aug 2018 18:56

Tgt Ion:252 Resp: 130595
Ion Ratio Lower Upper
252 100
253 21.7 17.0 25.6
125 10.0 9.0 13.6



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

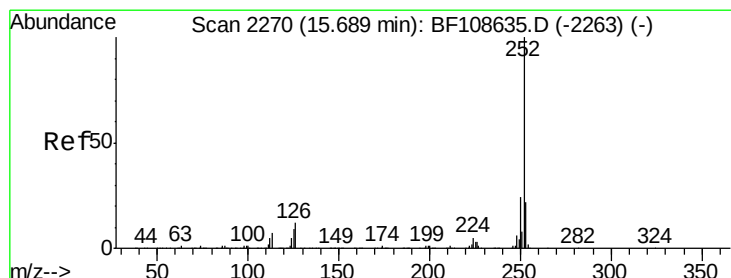
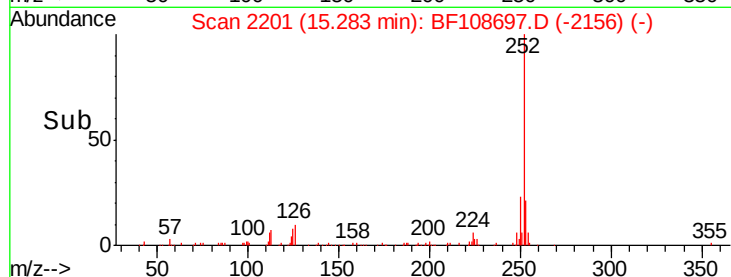
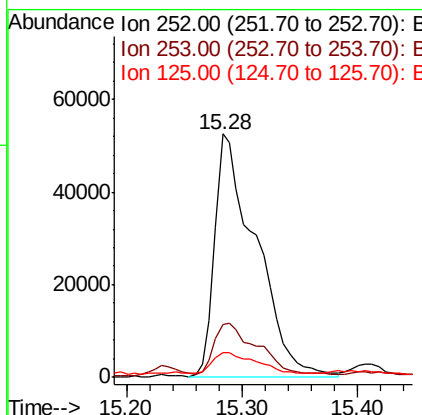
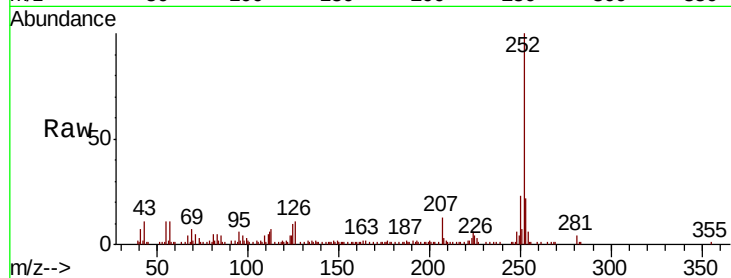




#88
Benzo(k)fluoranthene
Concen: 12.973 ng
RT: 15.28 min Scan# 2201
Delta R.T. -0.04 min
Lab File: BF108697.D
Acq: 31 Aug 2018 18:56

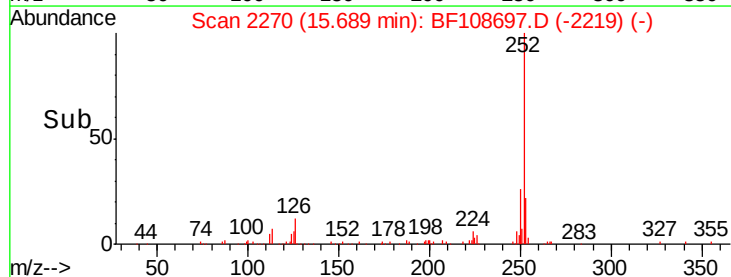
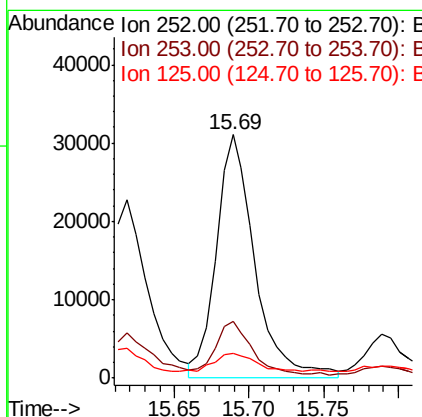
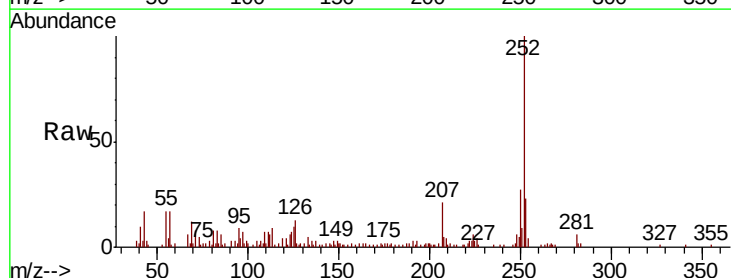
Instrument :
BNA_F
ClientSampleId :

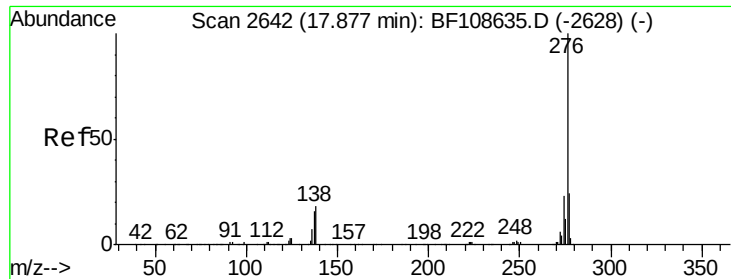
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.9	26.9
125	10.0	10.2	15.2#



#89
Benzo(a)pyrene
Concen: 6.116 ng
RT: 15.69 min Scan# 2270
Delta R.T. -0.00 min
Lab File: BF108697.D
Acq: 31 Aug 2018 18:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	10.0	9.8	14.6

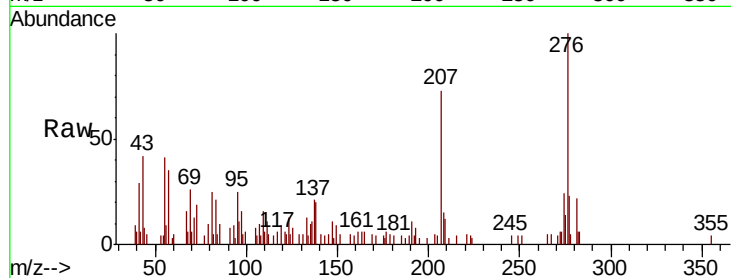




#91
 Benzo(a,h,i)perylene
 Concen: 4.202 ng
 RT: 17.87 min Scan# 2640
 Delta R.T. -0.01 min
 Lab File: BF108697.D
 Acq: 31 Aug 2018 18:56

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.2	17.9	26.9
138	19.6	21.8	32.8



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

