

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021218\
 Data File : BF102943.D
 Acq On : 13 Feb 2018 2:20
 Operator : SJ/JU
 Sample : J1519-04 50X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 13 04:49:28 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	160321	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	634228	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	256564	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	373205	20.00	ng	0.00
75) Chrysene-d12	14.05	240	289120	20.00	ng	0.00
86) Perylene-d12	15.54	264	263436	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.50	112	2915	0.28	ng	0.00
7) Phenol-d6	6.50	99	3191	0.25	ng	0.00
23) Nitrobenzene-d5	7.45	82	2092	0.23	ng	0.00
41) 2,4,6-Tribromophenol	10.72	330	252	0.12	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	5290	0.34	ng	0.00
78) Terphenyl-d14	12.99	244	4706	0.39	ng	0.00

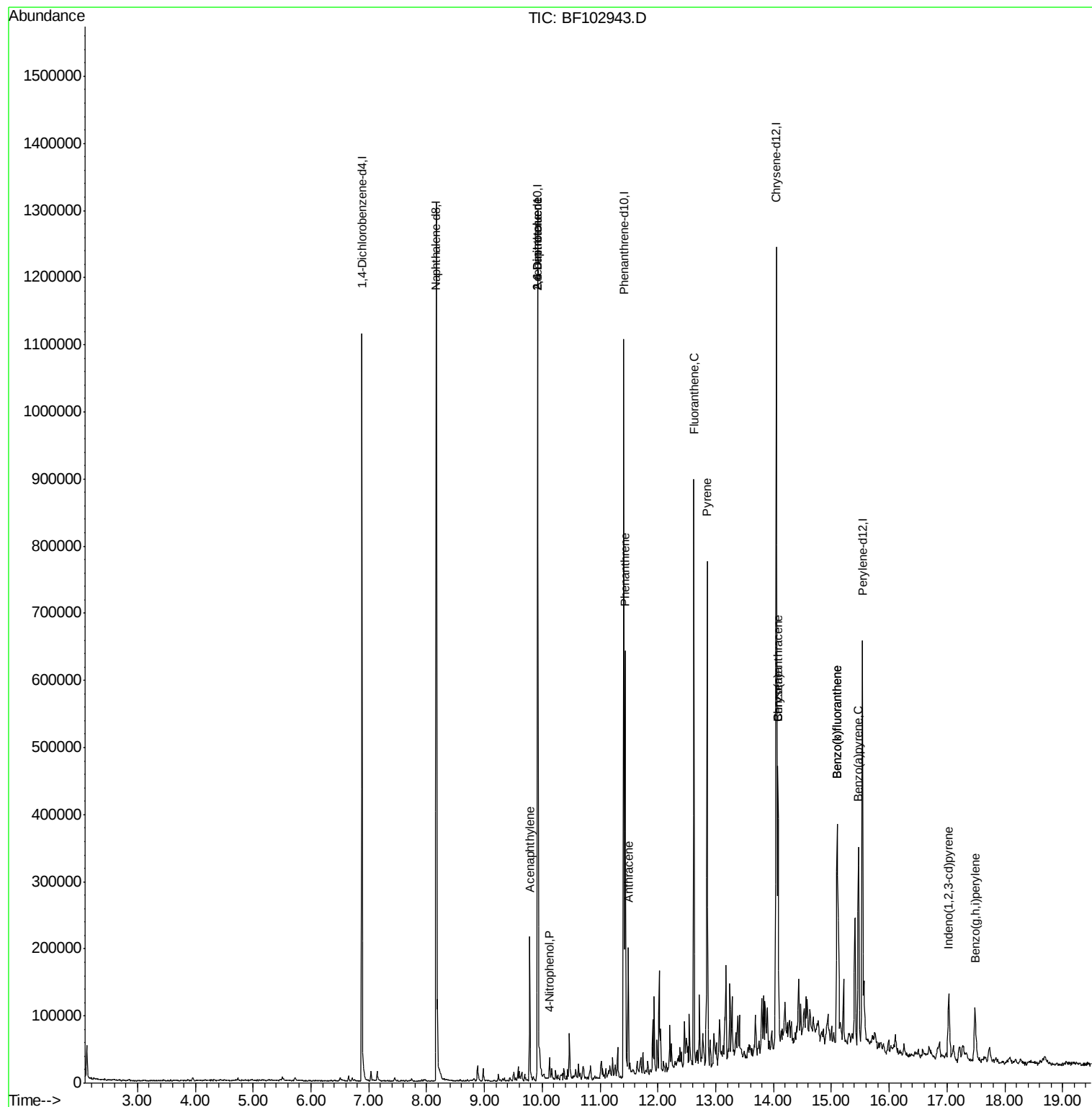
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
24) Nitrobenzene	7.74	77	183	Below Cal	#	38
48) Acenaphthylene	9.78	152	89904	3.40	ng	97
50) 2,6-Dinitrotoluene	9.92	165	32221	8.47	ng	# 26
55) 4-Nitrophenol	10.13	139	4934	5.24	ng	# 9
56) 2,4-Dinitrotoluene	9.92	165	32733	9.08	ng	# 23
70) Phenanthrene	11.43	178	199781	9.61	ng	98
71) Anthracene	11.49	178	69204	3.27	ng	98
74) Fluoranthene	12.62	202	324704	15.53	ng	98
77) Pyrene	12.86	202	303024	13.37	ng	100
80) Benzo(a)anthracene	14.07	228	148364	8.16	ng	95
82) Chrysene	14.07	228	148364	8.09	ng	97
85) Indeno(1,2,3-cd)pyrene	17.03	276	60622	3.99	ng	95
87) Benzo(b)fluoranthene	15.10	252	248466	14.55	ng	# 94
88) Benzo(k)fluoranthene	15.10	252	248326	15.22	ng	97
89) Benzo(a)pyrene	15.47	252	135074	8.79	ng	# 95
91) Benzo(g,h,i)perylene	17.49	276	66735	5.46	ng	98

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

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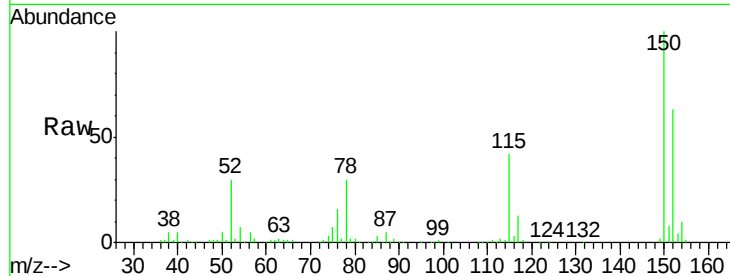


#1

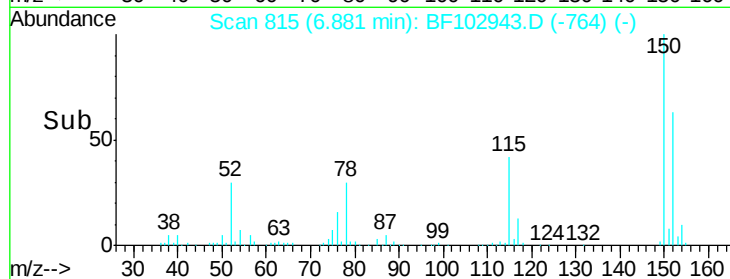
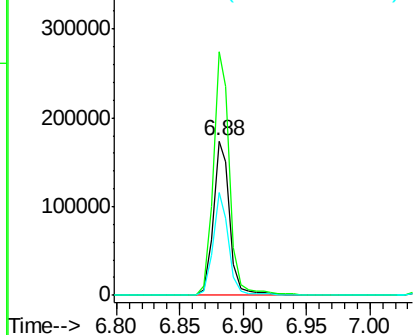
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.88 min Scan# 815
Delta R.T. 0.00 min
Lab File: BF102943.D
Acq: 13 Feb 2018 2:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 160321
Ion Ratio Lower Upper
152 100
150 157.5 124.6 186.8
115 66.5 50.1 75.1



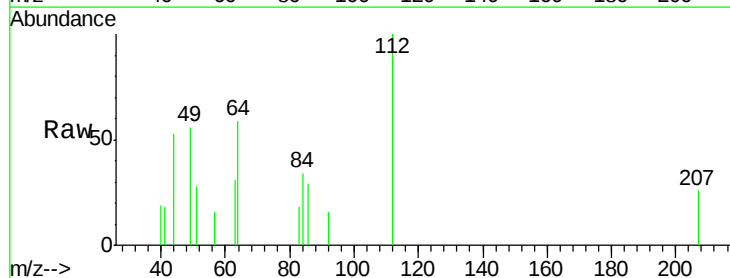
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



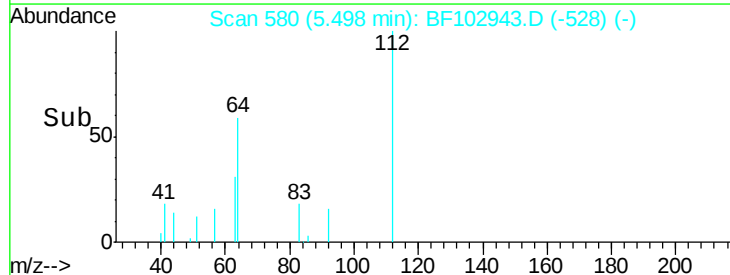
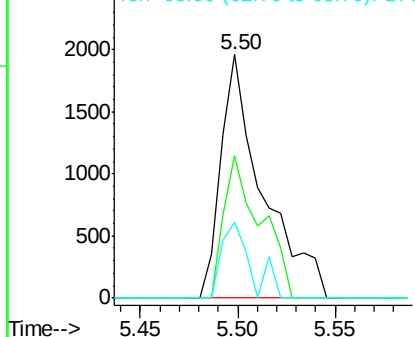
#5

2-Fluorophenol
Concen: 0.28 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.01 min
Lab File: BF102943.D
Acq: 13 Feb 2018 2:20

Tgt Ion:112 Resp: 2915
Ion Ratio Lower Upper
112 100
64 58.8 47.9 71.9
63 31.3 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: 0.25 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.00 min

Lab File: BF102943.D

Acq: 13 Feb 2018 2:20

Instrument :

BNA_F

ClientSampled :

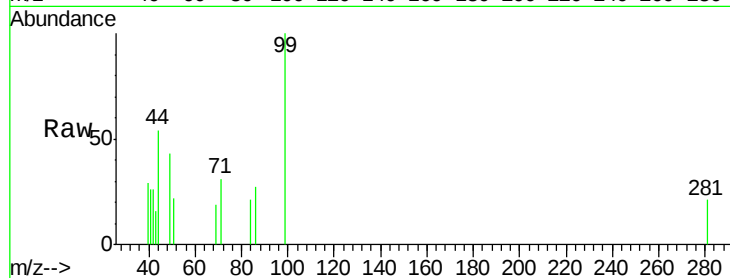
Tot Ion: 99 Resp: 3191

Ion Ratio Lower Upper

99 100

42 25.8 14.5 21.7#

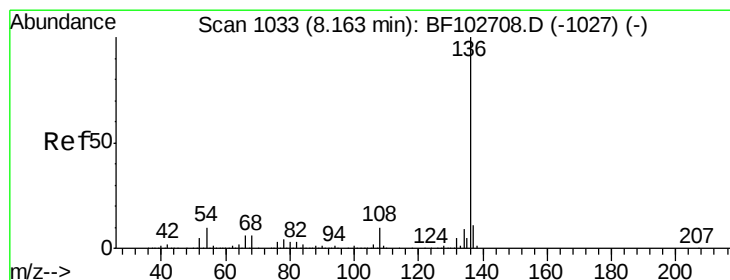
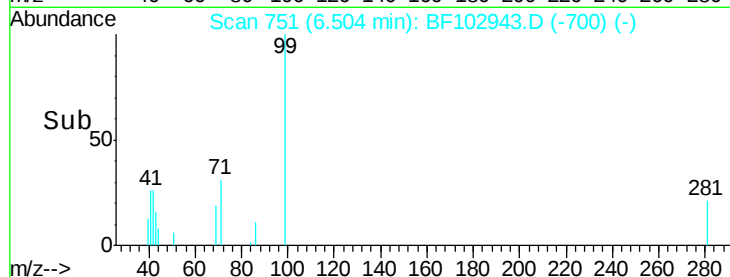
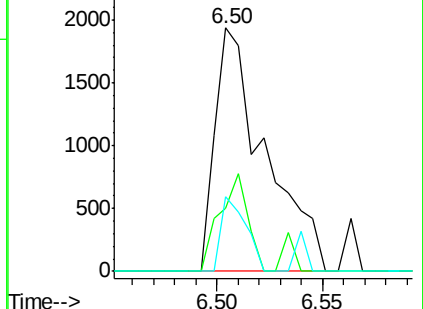
71 30.9 25.4 38.0



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: 20.00 ng

RT: 8.17 min Scan# 1034

Delta R.T. 0.00 min

Lab File: BF102943.D

Acq: 13 Feb 2018 2:20

Tgt Ion: 136 Resp: 634228

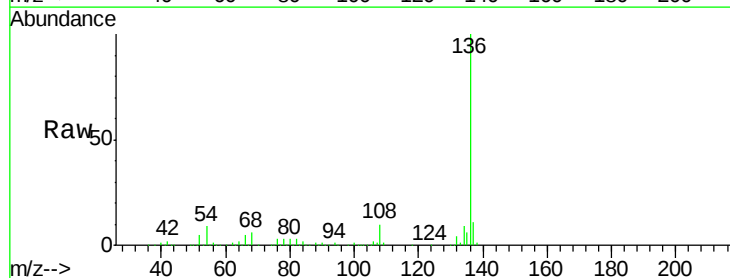
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 8.9 6.6 9.8

68 6.1 5.0 7.4

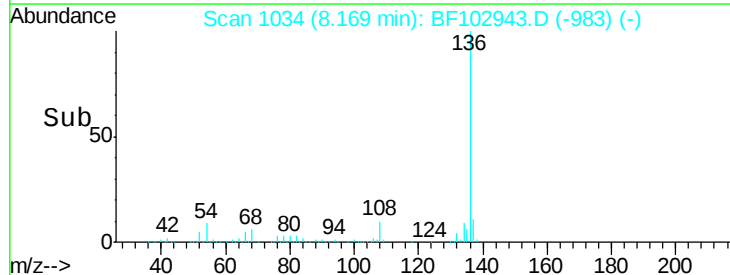
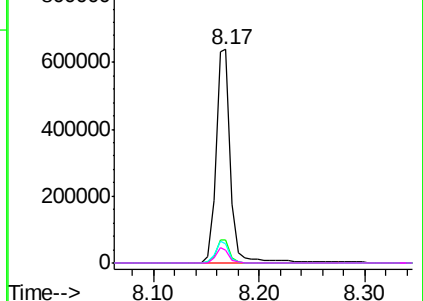


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.23 ng

RT: 7.45 min Scan# 912

Delta R.T. 0.00 min

Lab File: BF102943.D

Acq: 13 Feb 2018 2:20

Instrument :

BNA_F

ClientSampled :

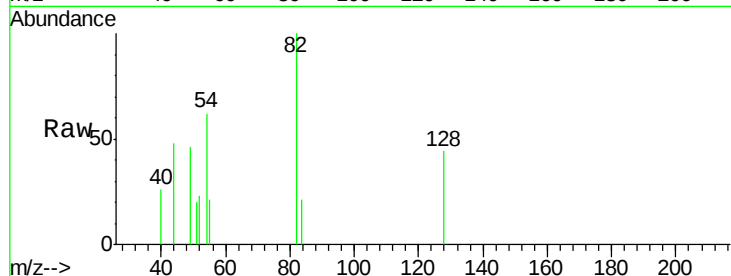
Tot Ion: 82 Resp: 2092

Ion Ratio Lower Upper

82 100

128 43.6 36.1 54.1

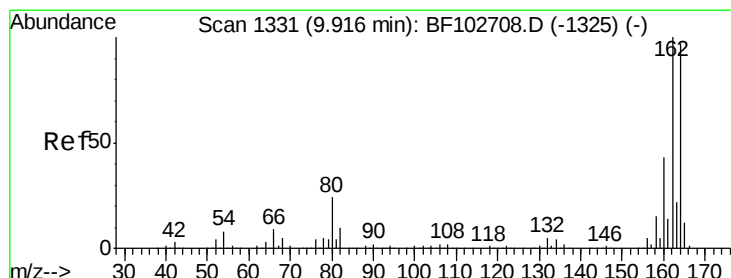
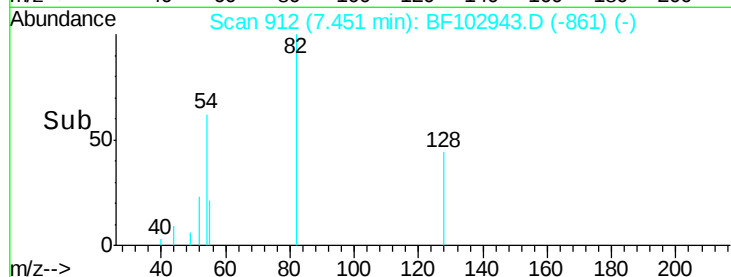
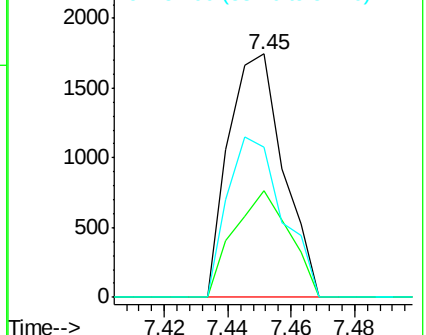
54 61.7 41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.92 min Scan# 1332

Delta R.T. 0.00 min

Lab File: BF102943.D

Acq: 13 Feb 2018 2:20

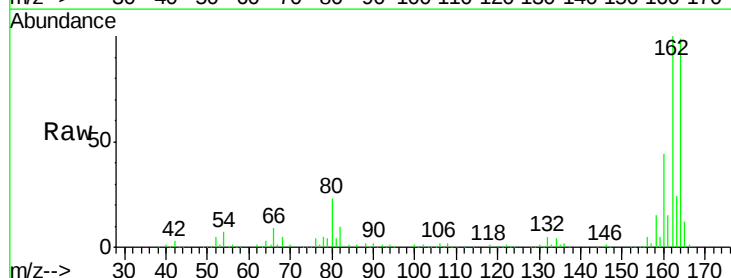
Tgt Ion: 164 Resp: 256564

Ion Ratio Lower Upper

164 100

162 101.2 86.1 129.1

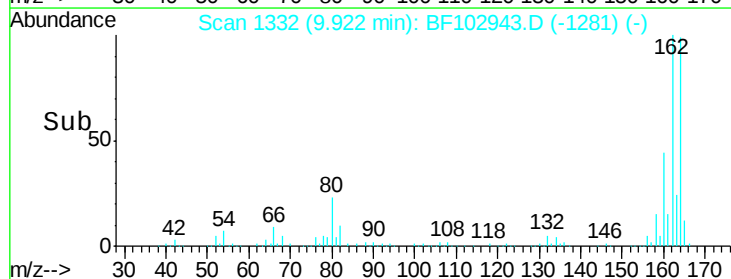
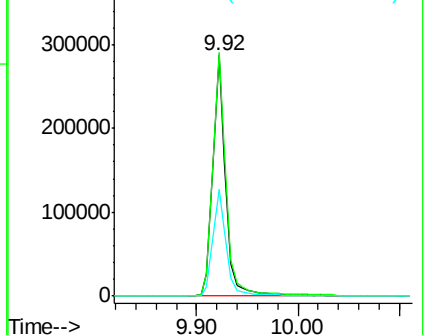
160 44.5 38.3 57.5

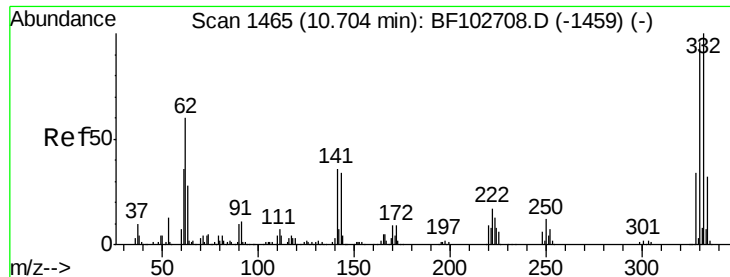


Abundance Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1

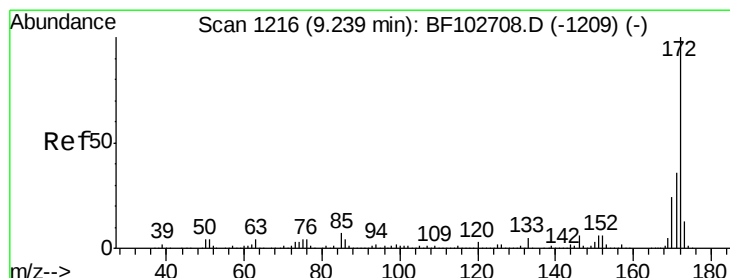
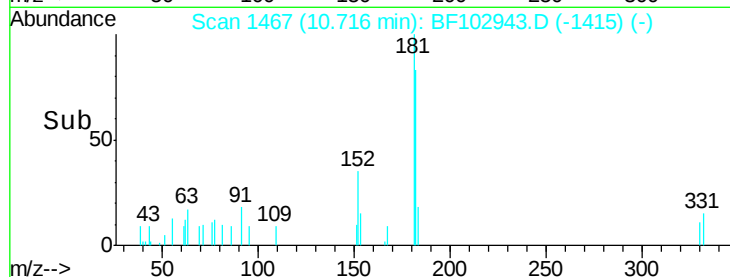
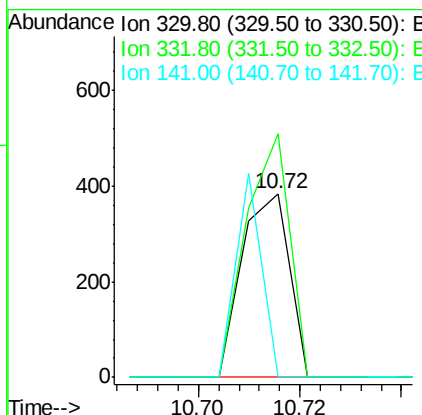
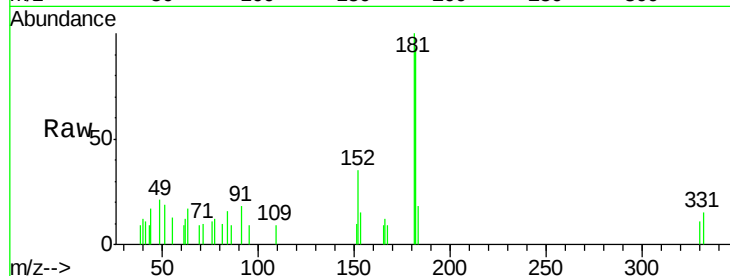




#41
 2,4,6-Tribromophenol
 Concen: 0.12 ng
 RT: 10.72 min Scan# 1467
 Delta R.T. 0.01 min
 Lab File: BF102943.D
 Acq: 13 Feb 2018 2:20

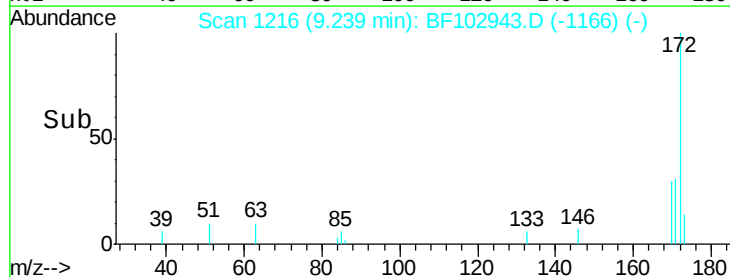
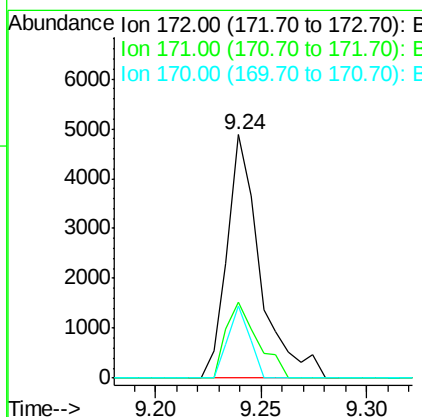
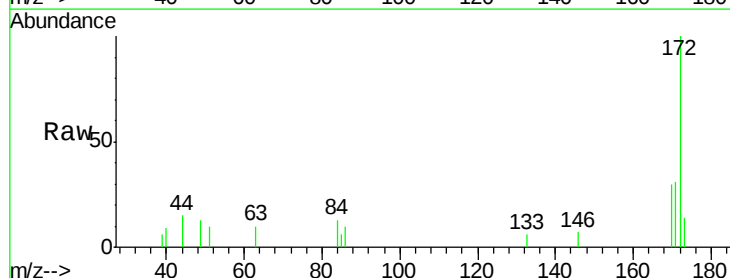
Instrument :
 BNA_F
 ClientSampled :

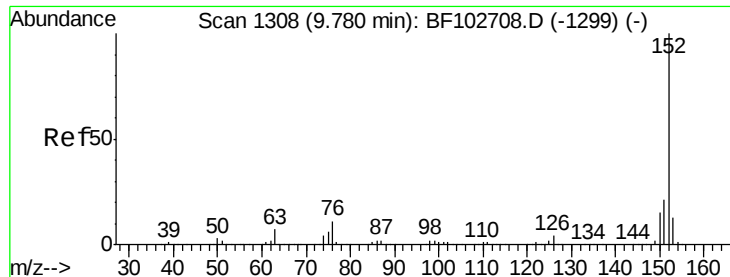
Tot Ion	Ratio	Lower	Upper
330	100		
332	121.0	77.0	115.6#
141	59.5	29.9	44.9#



#44
 2-Fluorobiphenyl
 Concen: 0.34 ng
 RT: 9.24 min Scan# 1216
 Delta R.T. -0.01 min
 Lab File: BF102943.D
 Acq: 13 Feb 2018 2:20

Tgt Ion	Ratio	Lower	Upper
172	100		
171	31.0	29.7	44.5
170	29.6	19.6	29.4#





#48

Acenaphthylene

Concen: 3.40 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF102943.D

Acq: 13 Feb 2018 2:20

Instrument :

BNA_F

ClientSampleId :

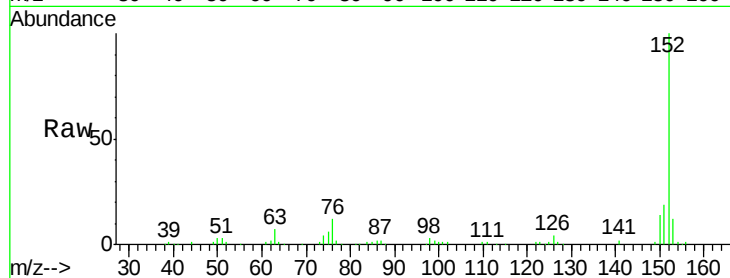
Tot Ion:152 Resp: 89904

Ion Ratio Lower Upper

152 100

151 19.2 16.3 24.5

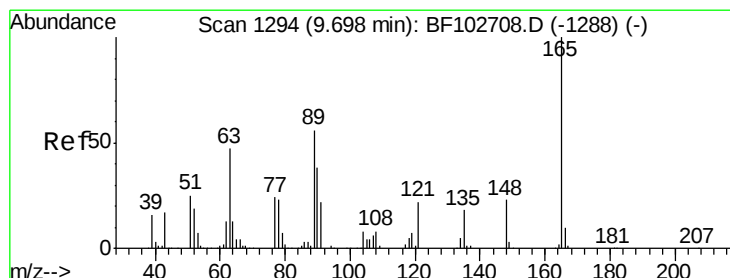
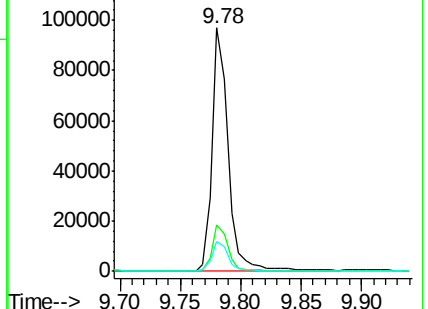
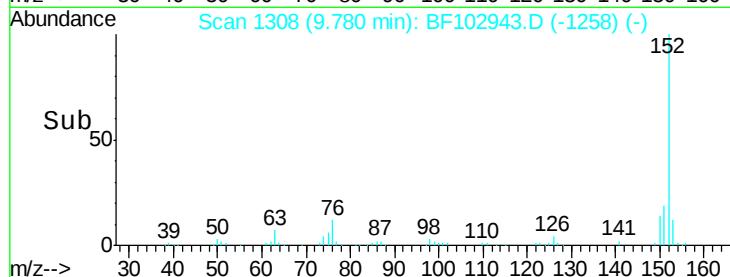
153 12.3 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

2,6-Dinitrotoluene

Concen: 8.47 ng

RT: 9.92 min Scan# 1332

Delta R.T. 0.22 min

Lab File: BF102943.D

Acq: 13 Feb 2018 2:20

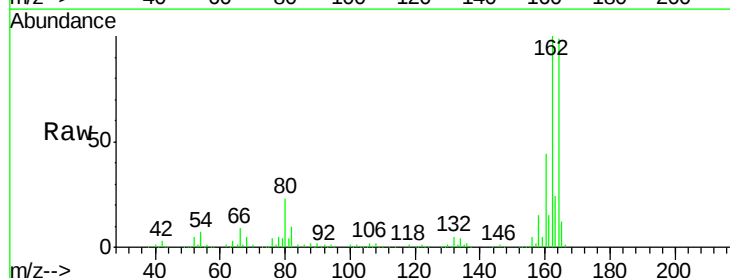
Tgt Ion:165 Resp: 32221

Ion Ratio Lower Upper

165 100

63 1.5 44.7 67.1#

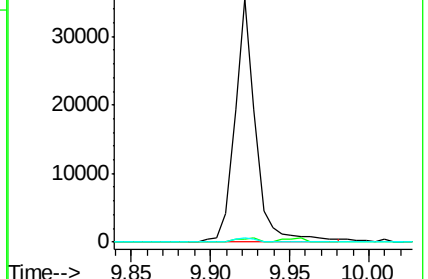
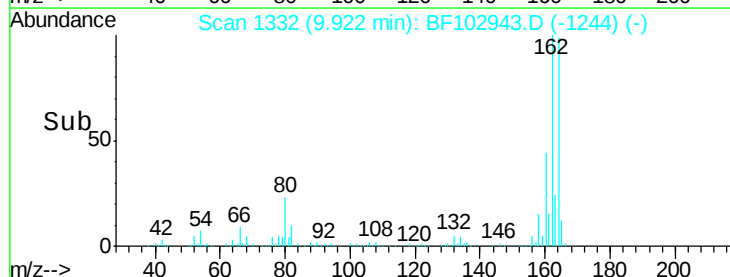
89 1.7 44.0 66.0#

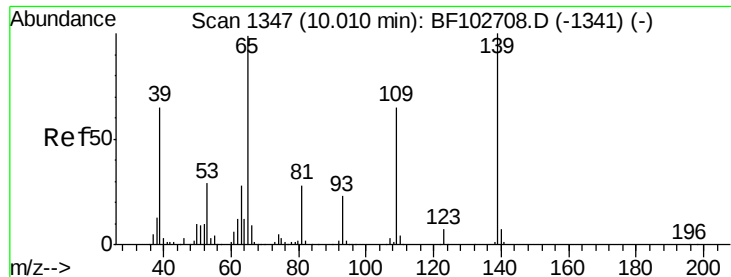


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

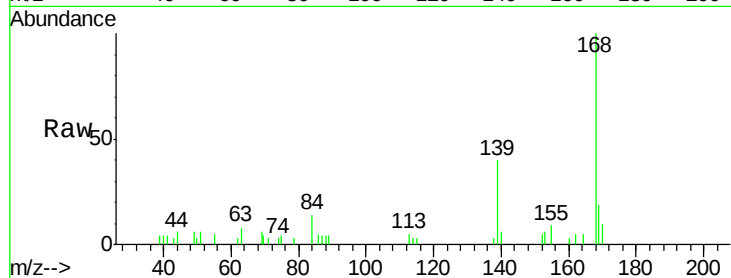




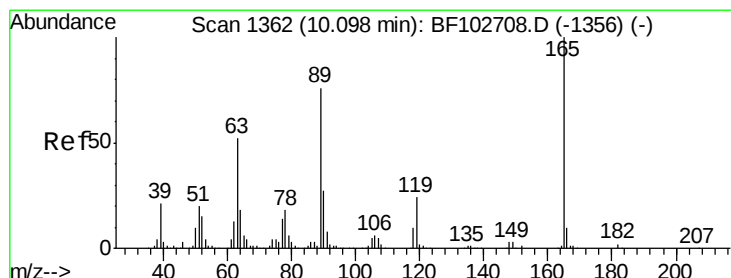
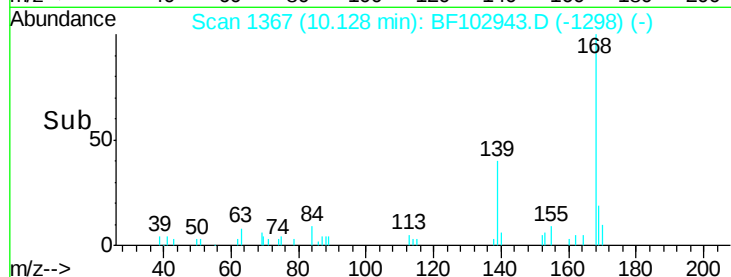
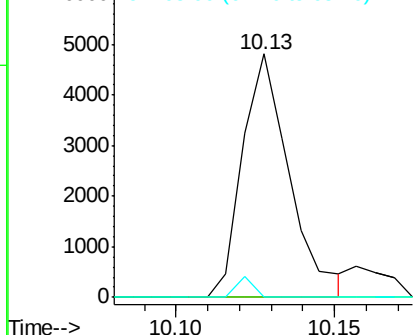
#55
4-Nitrophenol
Concen: 5.24 ng
RT: 10.13 min Scan# 1367
Delta R.T. 0.11 min
Lab File: BF102943.D
Acq: 13 Feb 2018 2:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 4934
Ion Ratio Lower Upper
139 100
109 0.0 48.4 88.4#
65 0.0 72.6 112.6#

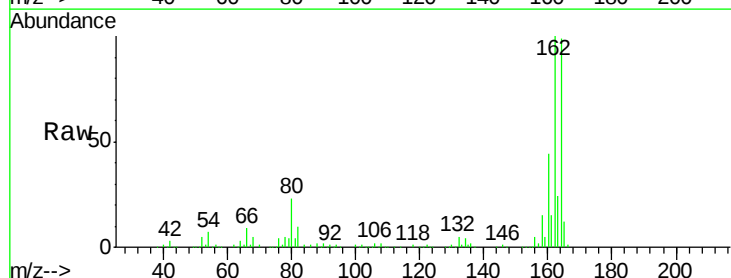


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

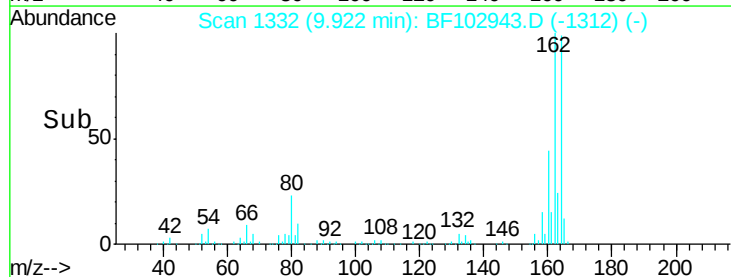
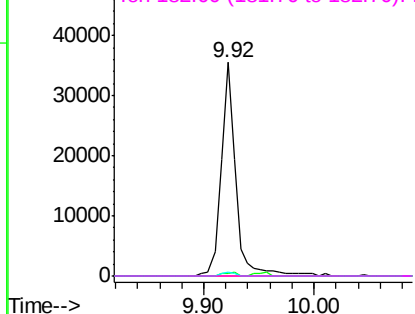


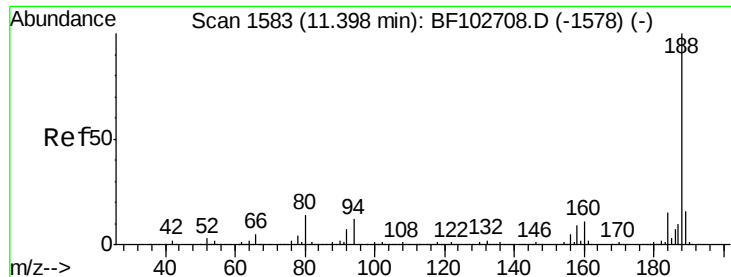
#56
2,4-Dinitrotoluene
Concen: 9.08 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.18 min
Lab File: BF102943.D
Acq: 13 Feb 2018 2:20

Tgt Ion:165 Resp: 32733
Ion Ratio Lower Upper
165 100
63 1.5 36.4 54.6#
89 1.7 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

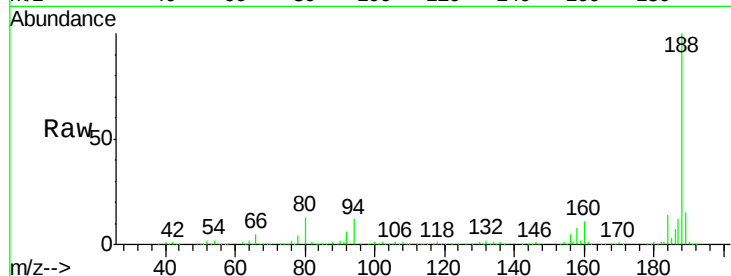




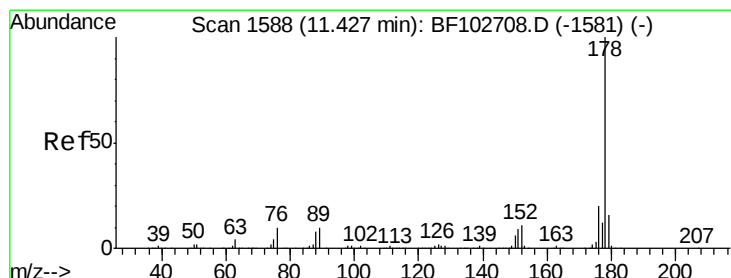
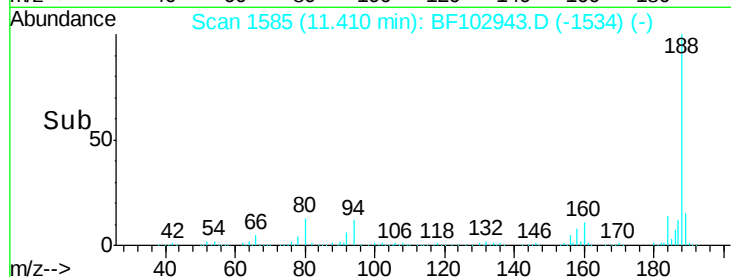
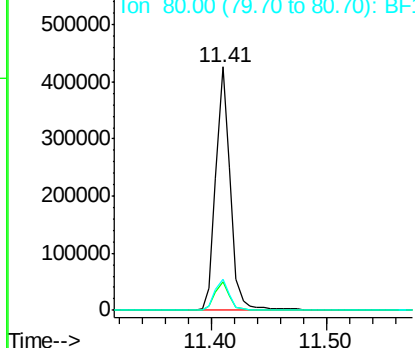
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.41 min Scan# 1585
Delta R.T. 0.00 min
Lab File: BF102943.D
Acq: 13 Feb 2018 2:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 373205
Ion Ratio Lower Upper
188 100
94 11.7 8.5 12.7
80 12.8 9.2 13.8

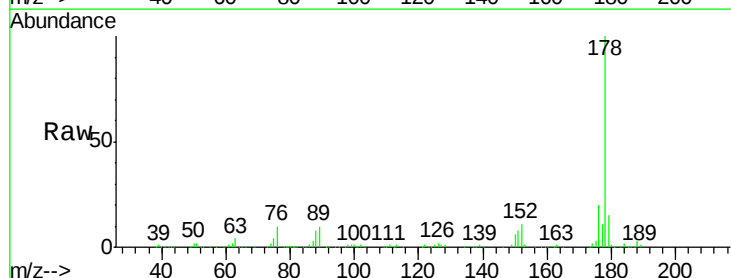


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

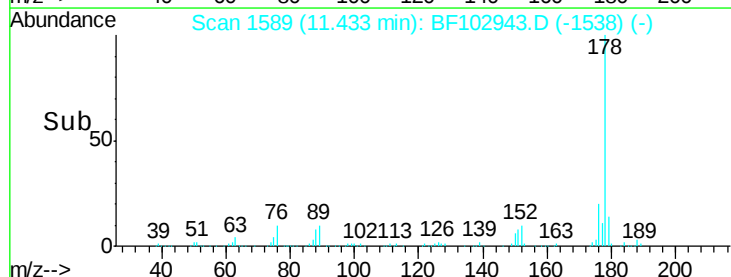
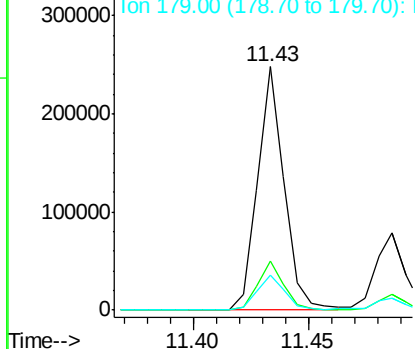


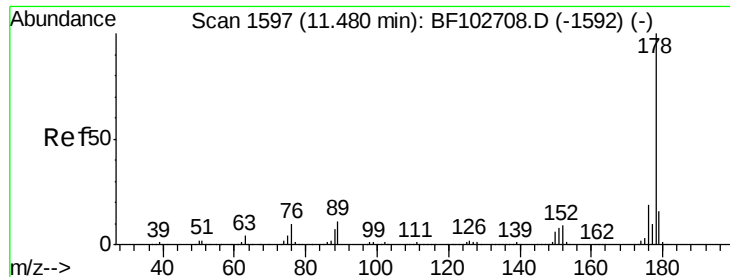
#70
Phenanthrene
Concen: 9.61 ng
RT: 11.43 min Scan# 1589
Delta R.T. 0.00 min
Lab File: BF102943.D
Acq: 13 Feb 2018 2:20

Tgt Ion:178 Resp: 199781
Ion Ratio Lower Upper
178 100
176 19.9 15.8 23.8
179 14.5 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

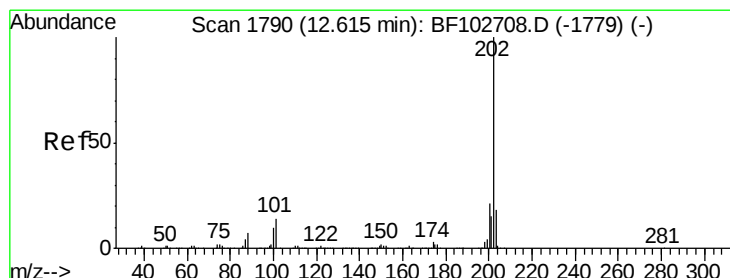
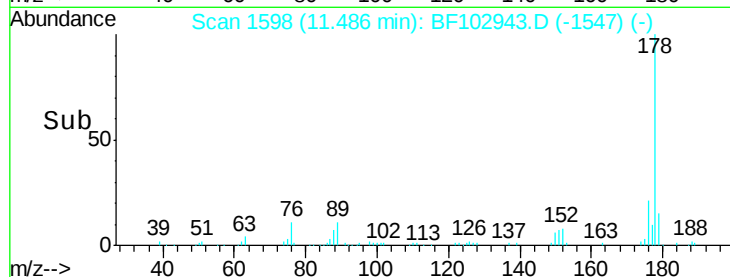
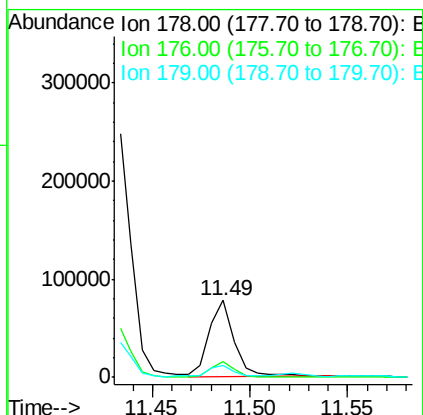
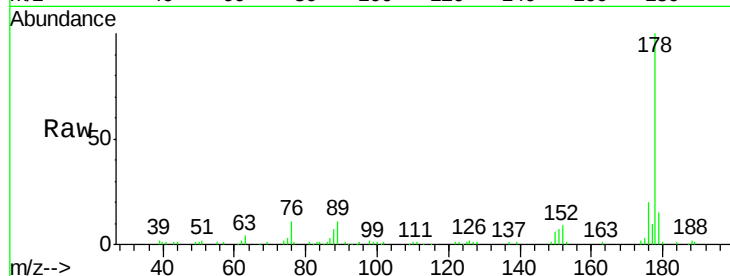




#71
 Anthracene
 Concen: 3.27 ng
 RT: 11.49 min Scan# 1598
 Delta R.T. 0.00 min
 Lab File: BF102943.D
 Acq: 13 Feb 2018 2:20

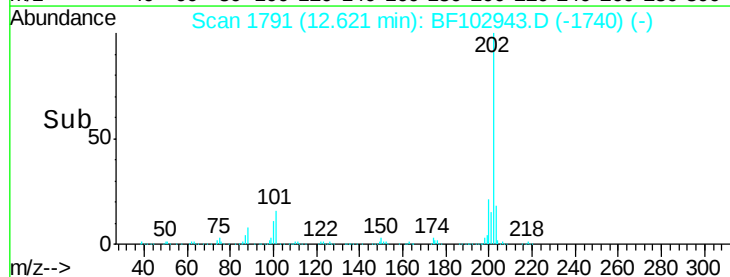
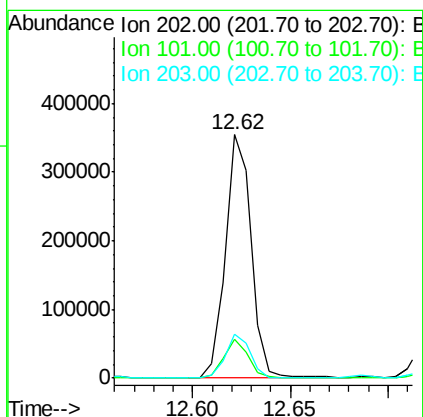
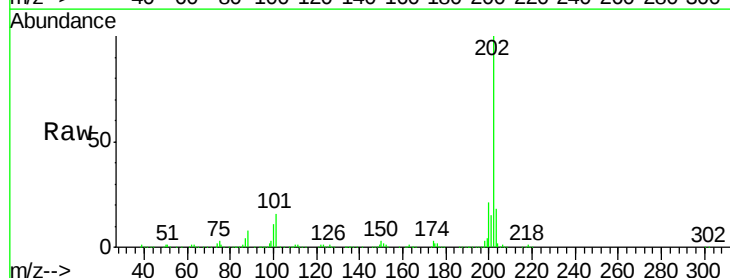
Instrument :
 BNA_F
 ClientSampleId :

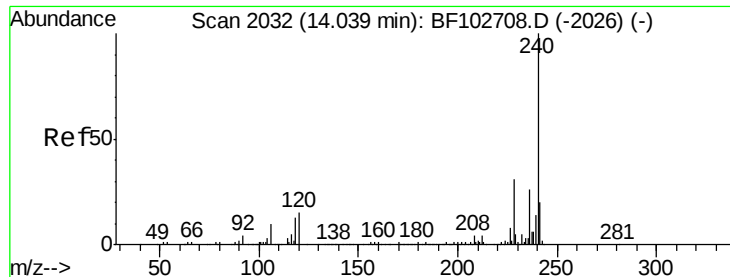
Tot Ion:178 Resp: 69204
 Ion Ratio Lower Upper
 178 100
 176 20.4 15.4 23.2
 179 14.9 12.6 19.0



#74
 Fluoranthene
 Concen: 15.53 ng
 RT: 12.62 min Scan# 1791
 Delta R.T. 0.00 min
 Lab File: BF102943.D
 Acq: 13 Feb 2018 2:20

Tgt Ion:202 Resp: 324704
 Ion Ratio Lower Upper
 202 100
 101 15.7 0.0 34.1
 203 17.9 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.05 min Scan# 2034

Delta R.T. 0.00 min

Lab File: BF102943.D

Acq: 13 Feb 2018 2:20

Instrument :

BNA_F

ClientSampleId :

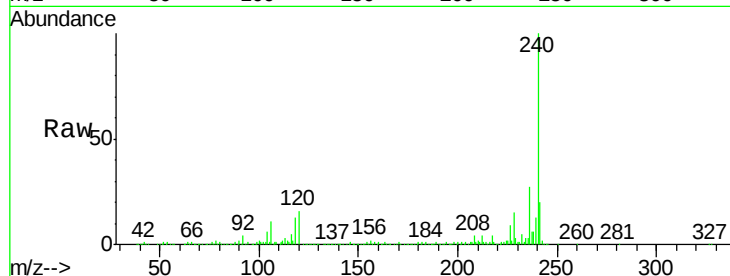
Tot Ion:240 Resp: 289120

Ion Ratio Lower Upper

240 100

120 15.6 9.5 14.3#

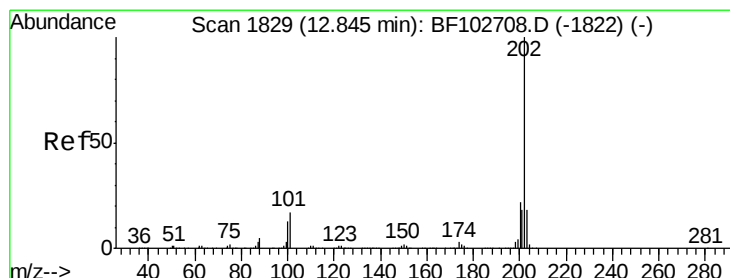
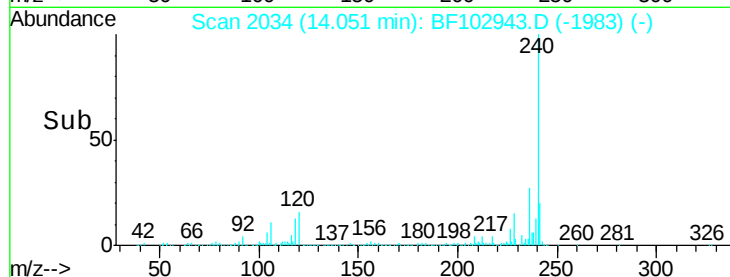
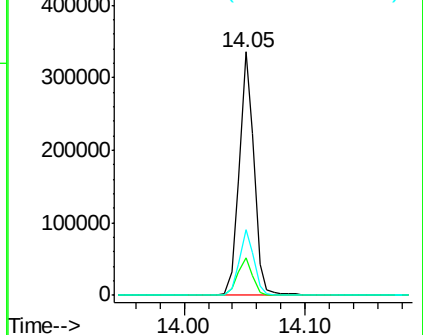
236 26.8 20.7 31.1



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: 13.37 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.01 min

Lab File: BF102943.D

Acq: 13 Feb 2018 2:20

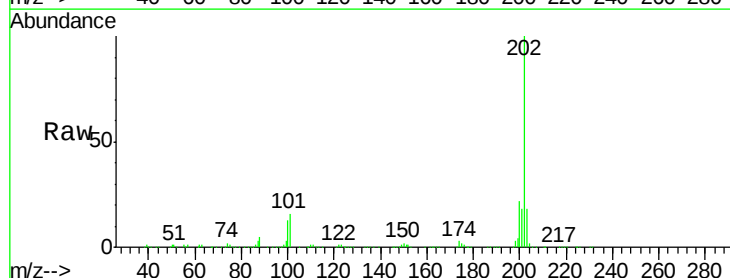
Tgt Ion:202 Resp: 303024

Ion Ratio Lower Upper

202 100

200 21.8 17.4 26.2

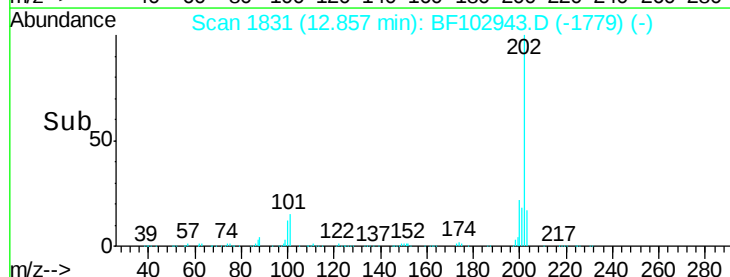
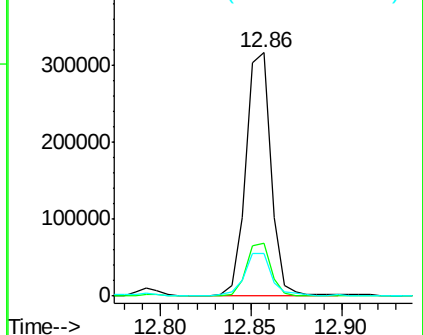
203 17.5 14.3 21.5

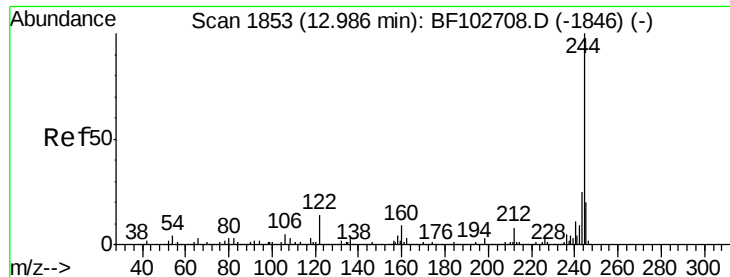


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

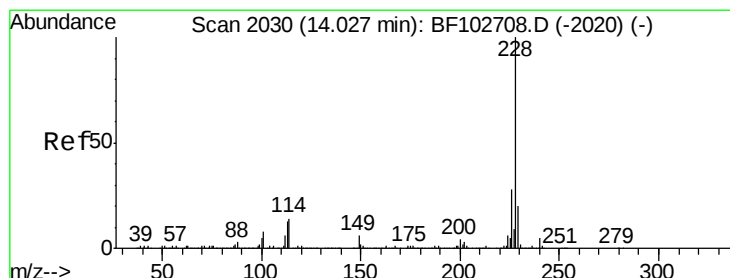
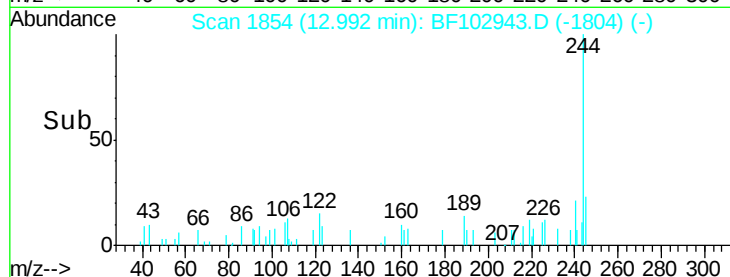
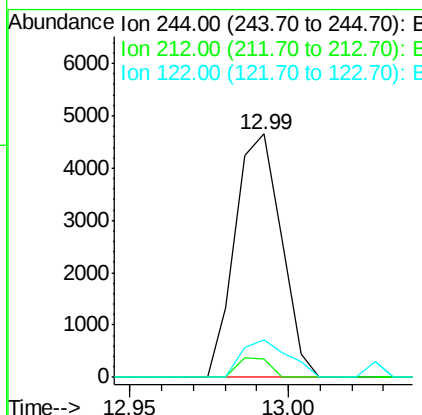
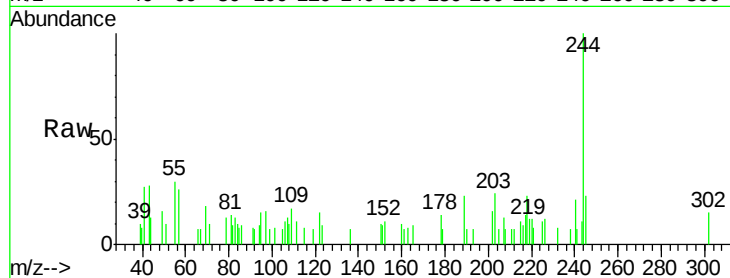




#78
 Terphenyl-d14
 Concen: 0.39 ng
 RT: 12.99 min Scan# 1854
 Delta R.T. -0.01 min
 Lab File: BF102943.D
 Acq: 13 Feb 2018 2:20

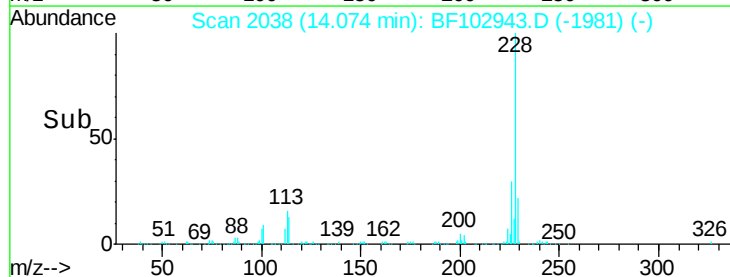
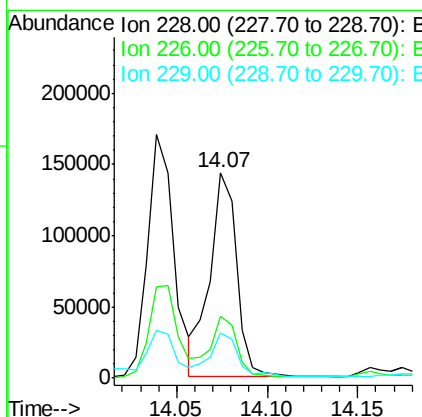
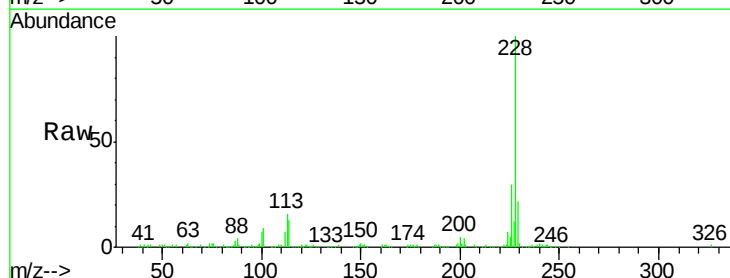
Instrument :
 BNA_F
 ClientSampleId :

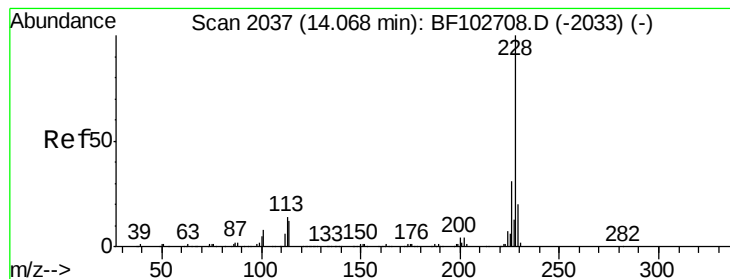
Tot Ion:244 Resp: 4706
 Ion Ratio Lower Upper
 244 100
 212 7.5 5.4 8.0
 122 15.5 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 8.16 ng
 RT: 14.07 min Scan# 2038
 Delta R.T. 0.04 min
 Lab File: BF102943.D
 Acq: 13 Feb 2018 2:20

Tgt Ion:228 Resp: 148364
 Ion Ratio Lower Upper
 228 100
 226 30.3 22.6 33.8
 229 22.2 15.8 23.6





#82

Chrysene

Concen: 8.09 ng

RT: 14.07 min Scan# 2038

Delta R.T. -0.01 min

Lab File: BF102943.D

Acq: 13 Feb 2018 2:20

Instrument :

BNA_F

ClientSampleId :

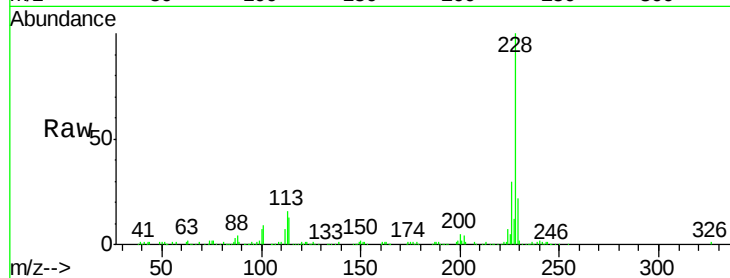
Tot Ion:228 Resp: 148364

Ion Ratio Lower Upper

228 100

226 30.3 25.0 37.6

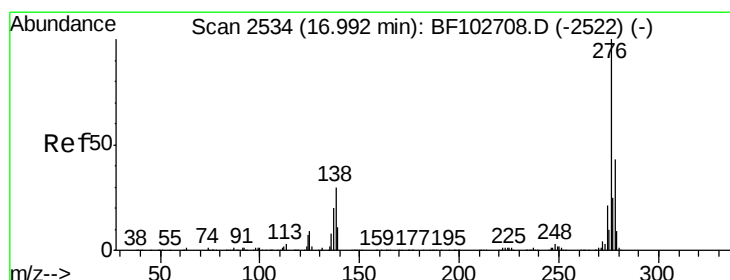
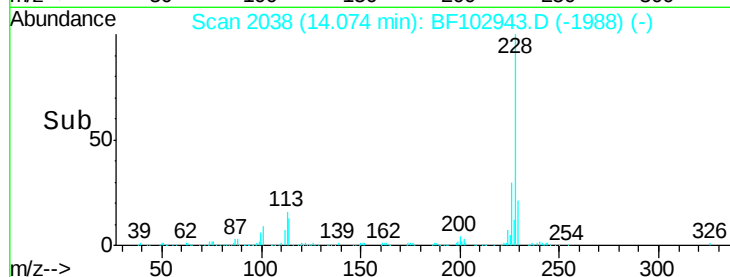
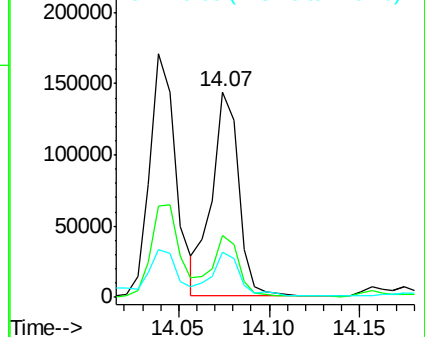
229 22.2 16.2 24.4



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: 3.99 ng

RT: 17.03 min Scan# 2541

Delta R.T. 0.02 min

Lab File: BF102943.D

Acq: 13 Feb 2018 2:20

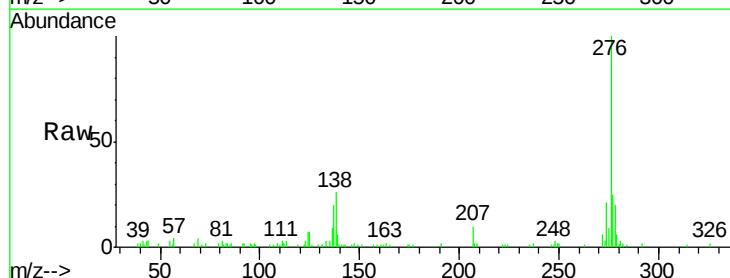
Tgt Ion:276 Resp: 60622

Ion Ratio Lower Upper

276 100

138 28.1 25.0 37.6

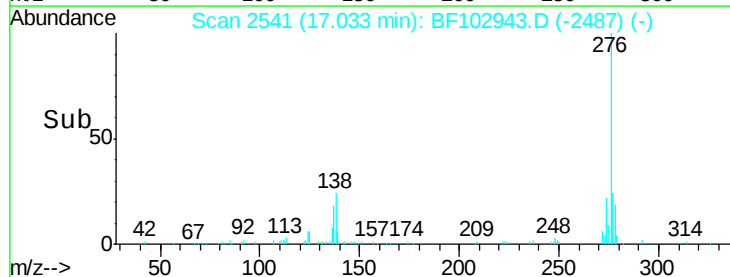
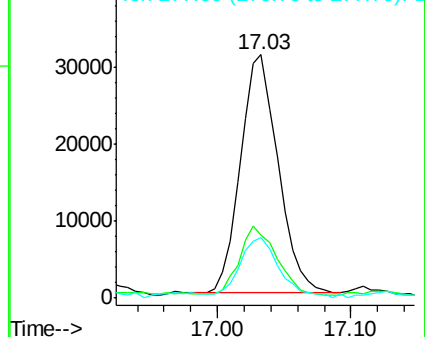
277 27.0 20.1 30.1

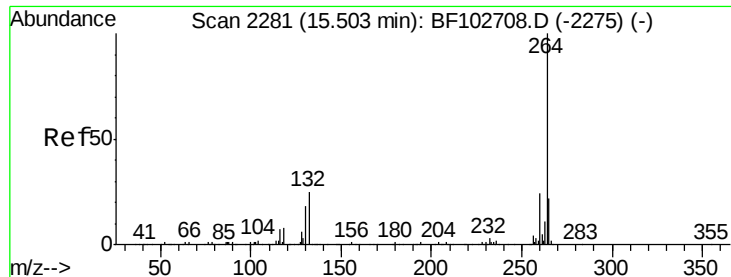


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

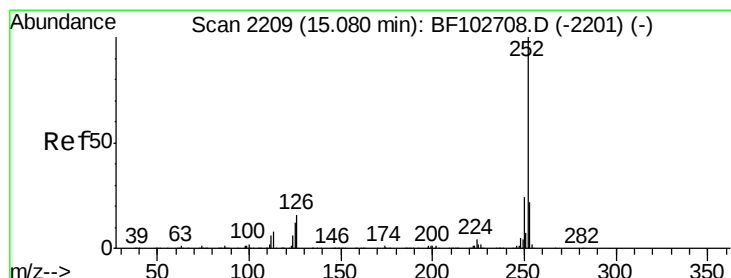
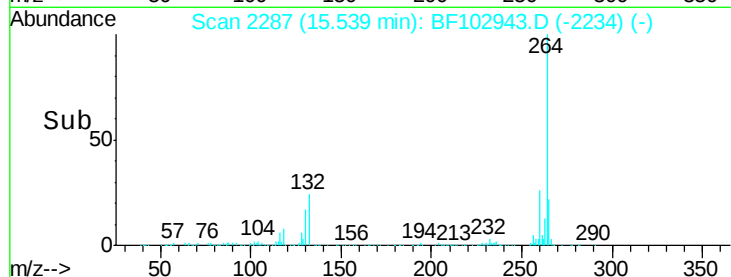
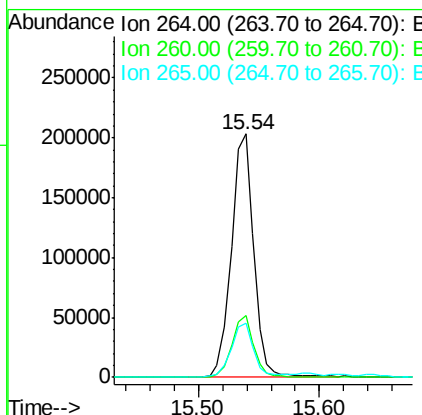
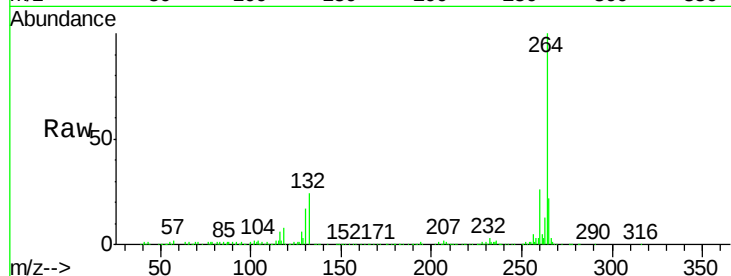




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.54 min Scan# 2287
Delta R.T. 0.01 min
Lab File: BF102943.D
Acq: 13 Feb 2018 2:20

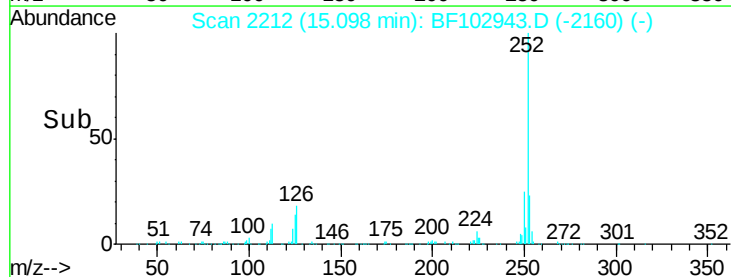
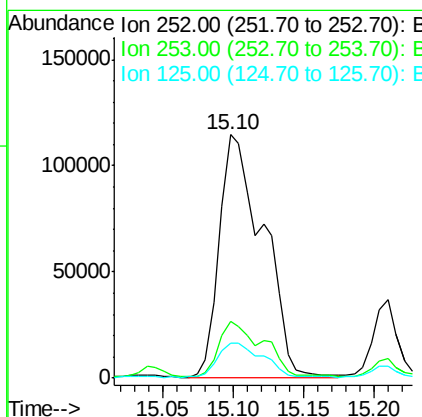
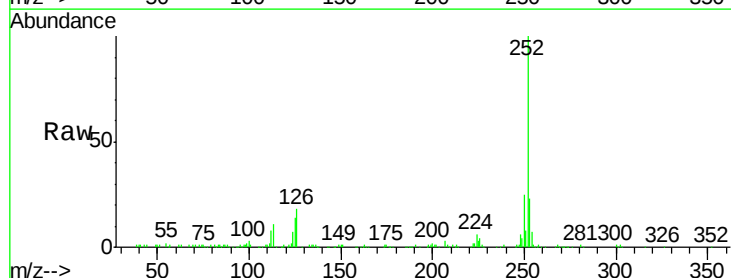
Instrument :
BNA_F
ClientSampleId :

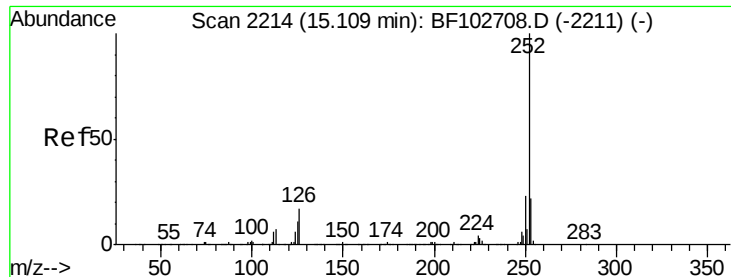
Tot Ion:264 Resp: 263436
Ion Ratio Lower Upper
264 100
260 25.6 19.2 28.8
265 22.1 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 14.55 ng
RT: 15.10 min Scan# 2212
Delta R.T. 0.01 min
Lab File: BF102943.D
Acq: 13 Feb 2018 2:20

Tgt Ion:252 Resp: 248466
Ion Ratio Lower Upper
252 100
253 23.4 17.0 25.6
125 14.3 9.0 13.6#

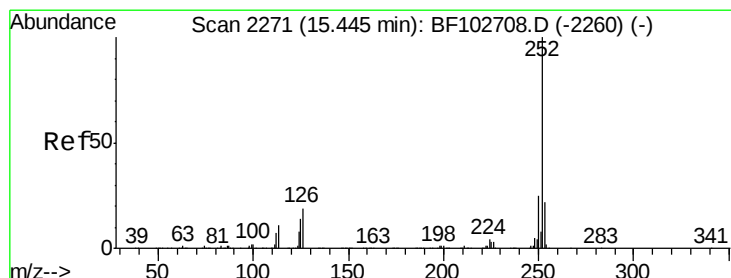
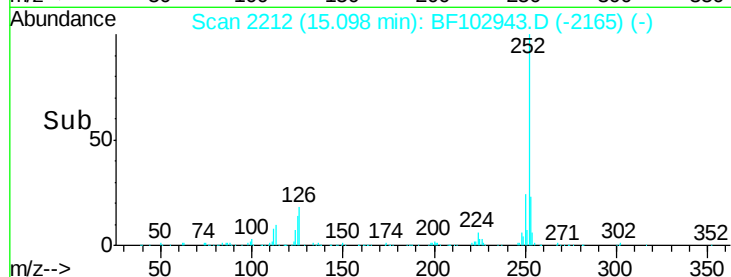
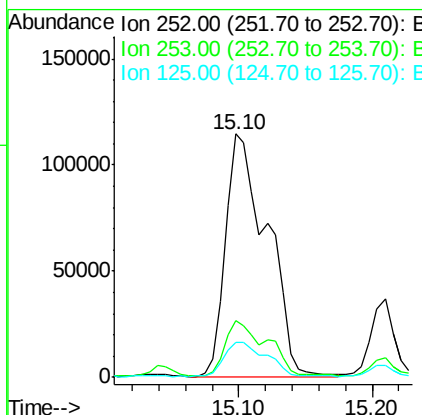
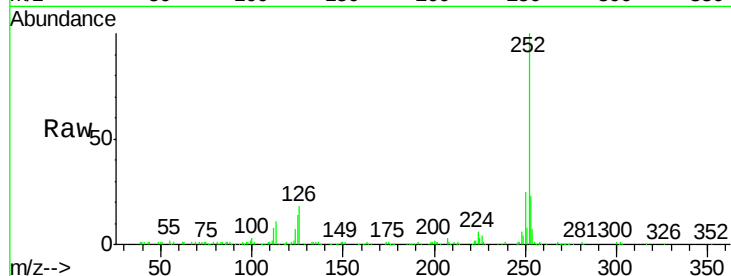




#88
Benzo(k)fluoranthene
Concen: 15.22 ng
RT: 15.10 min Scan# 2212
Delta R.T. -0.02 min
Lab File: BF102943.D
Acq: 13 Feb 2018 2:20

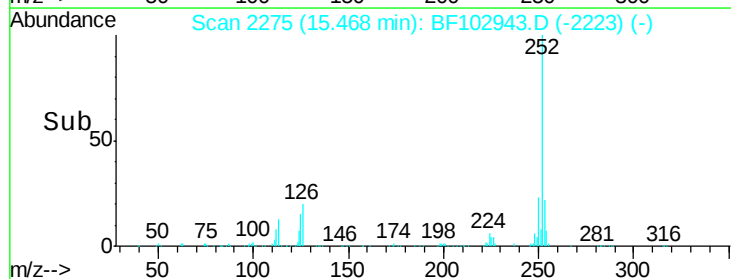
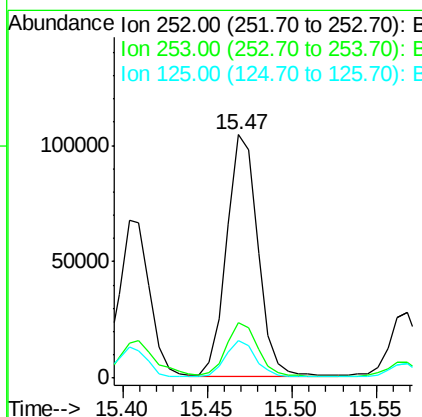
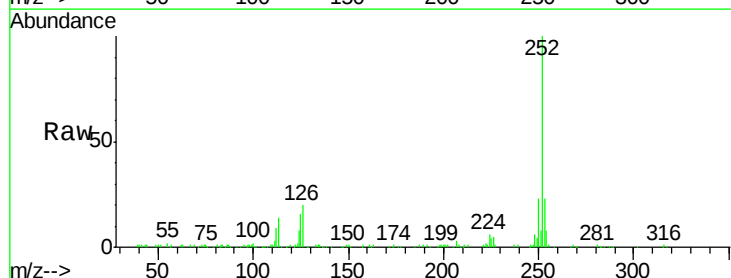
Instrument :
BNA_F
ClientSampleId :

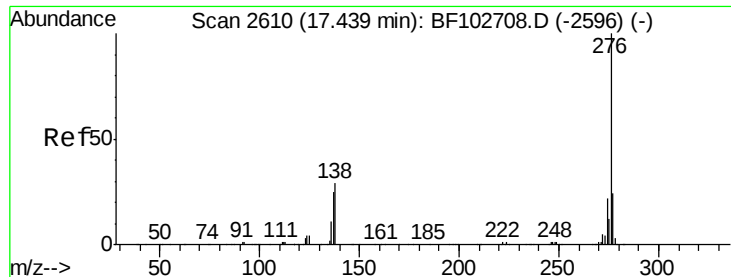
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.9	26.9
125	14.3	10.2	15.2



#89
Benzo(a)pyrene
Concen: 8.79 ng
RT: 15.47 min Scan# 2275
Delta R.T. 0.01 min
Lab File: BF102943.D
Acq: 13 Feb 2018 2:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	15.6	9.8	14.6#

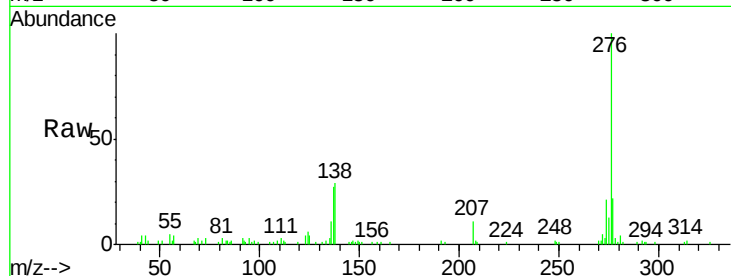




#91
 Benzo(a,h,i)perylene
 Concen: 5.46 ng
 RT: 17.49 min Scan# 2618
 Delta R.T. 0.01 min
 Lab File: BF102943.D
 Acq: 13 Feb 2018 2:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.3	17.9	26.9
138	29.2	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

