

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021218\
 Data File : BF102949.D
 Acq On : 13 Feb 2018 5:00
 Operator : SJ/JU
 Sample : J1519-05 20X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 13 06:15:05 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	160354	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	647458	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	261853	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	377365	20.00	ng	0.00
75) Chrysene-d12	14.06	240	293593	20.00	ng	0.00
86) Perylene-d12	15.54	264	265074	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.49	112	49159	4.66	ng	0.00
7) Phenol-d6	6.50	99	56370	4.43	ng	0.00
23) Nitrobenzene-d5	7.44	82	34343	3.68	ng	-0.01
41) 2,4,6-Tribromophenol	10.71	330	7026	3.33	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	63911	4.05	ng	0.00
78) Terphenyl-d14	12.99	244	42942	3.46	ng	0.00

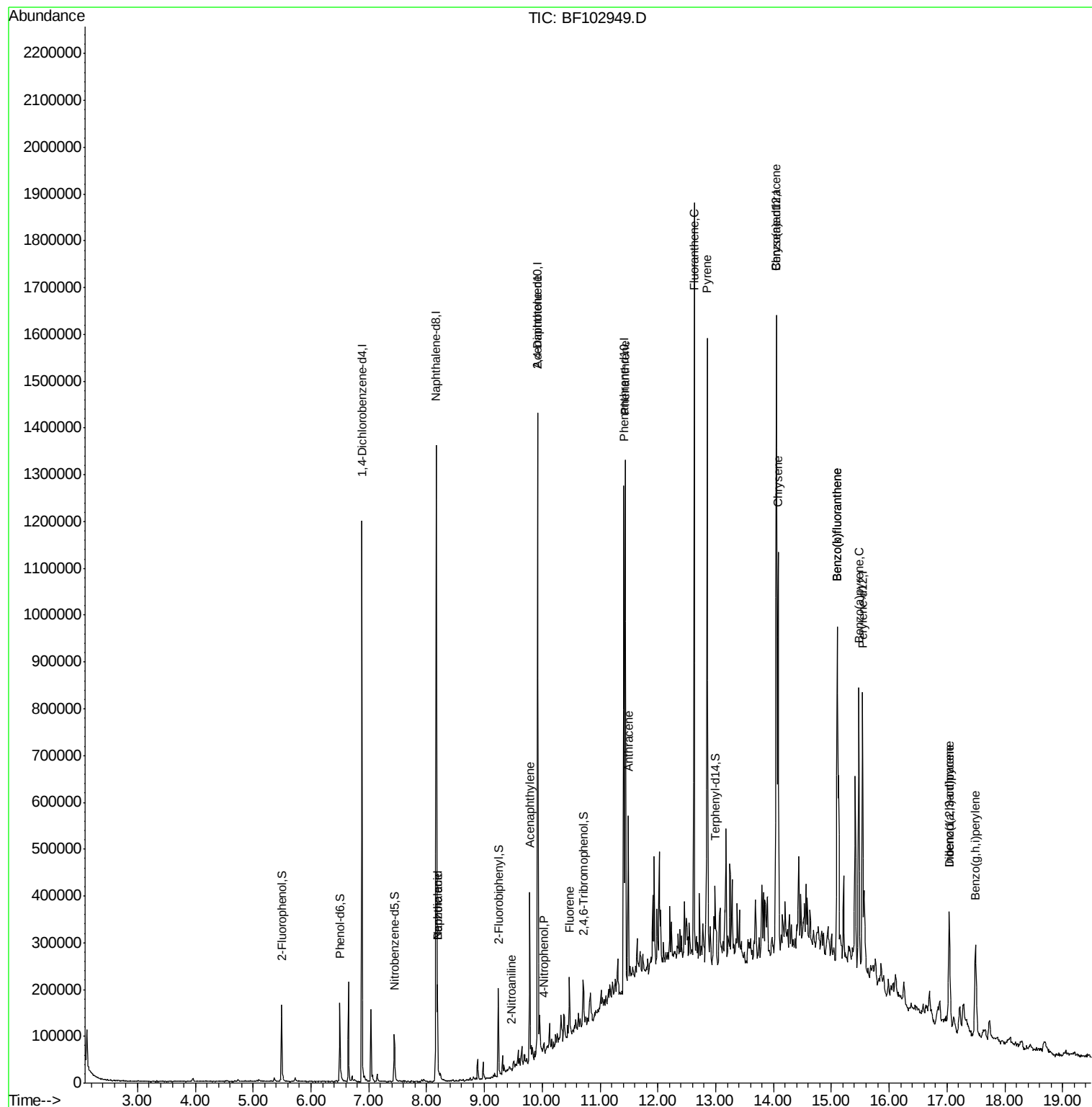
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
24) Nitrobenzene	7.59	77	113	Below Cal	#	38
31) Naphthalene	8.19	128	69426	2.19	ng	99
32) Benzoic acid	8.19	122	121	8.56	ng	# 1
47) 2-Nitroaniline	9.47	65	366	3.54	ng	# 2
48) Acenaphthylene	9.78	152	138541	5.14	ng	98
55) 4-Nitrophenol	10.03	139	689	4.19	ng	# 1
56) 2,4-Dinitrotoluene	9.92	165	36145	9.57	ng	# 24
57) Fluorene	10.47	166	38364	2.32	ng	93
70) Phenanthrene	11.43	178	386708	18.40	ng	99
71) Anthracene	11.49	178	138725	6.49	ng	99
74) Fluoranthene	12.63	202	604706	28.60	ng	99
77) Pylene	12.86	202	516070	22.42	ng	99
80) Benzo(a)anthracene	14.04	228	344222	18.64	ng	93
82) Chrysene	14.08	228	333831	17.94	ng	97
85) Indeno(1,2,3-cd)pyrene	17.04	276	151525	9.82	ng	96
87) Benzo(b)fluoranthene	15.10	252	538241	31.32	ng	# 94
88) Benzo(k)fluoranthene	15.10	252	538241	32.78	ng	97
89) Benzo(a)pyrene	15.47	252	269763	17.44	ng	95
90) Dibenzo(a,h)anthracene	17.04	278	39593	3.15	ng	# 78
91) Benzo(a,h,i)perylene	17.50	276	150978	12.29	ng	98

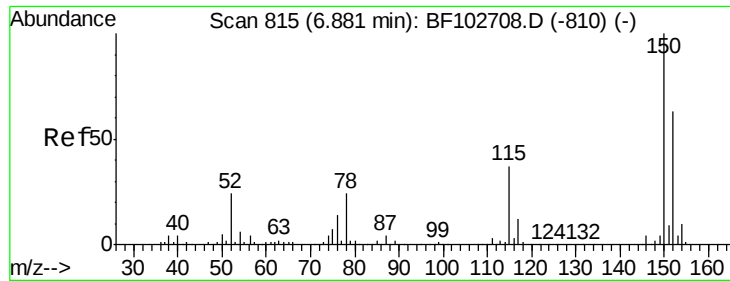
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF102949.D

Acq: 13 Feb 2018 5:00

Instrument :

BNA_F

ClientSampleId :

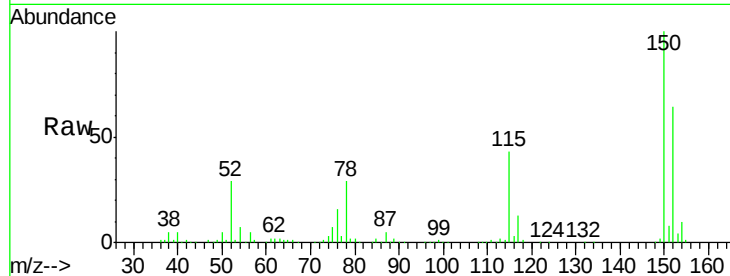
Tot Ion:152 Resp: 160354

Ion Ratio Lower Upper

152 100

150 157.2 124.6 186.8

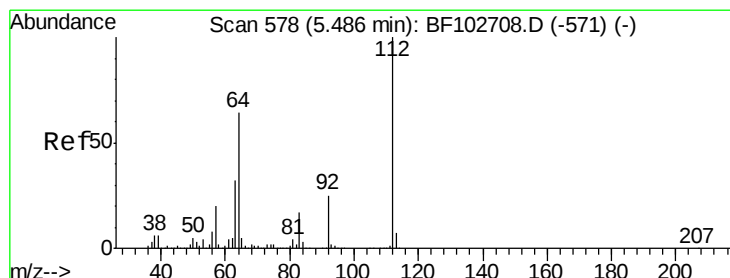
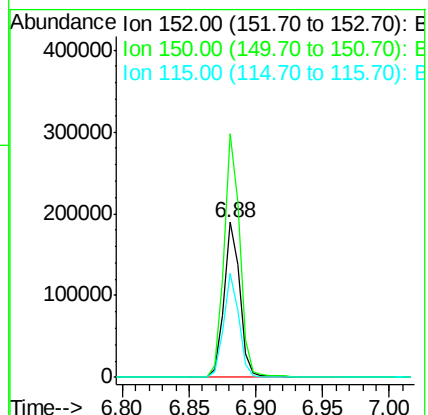
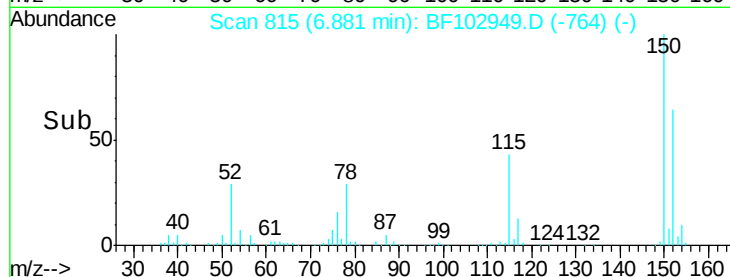
115 66.9 50.1 75.1



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: 4.66 ng

RT: 5.49 min Scan# 579

Delta R.T. -0.00 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

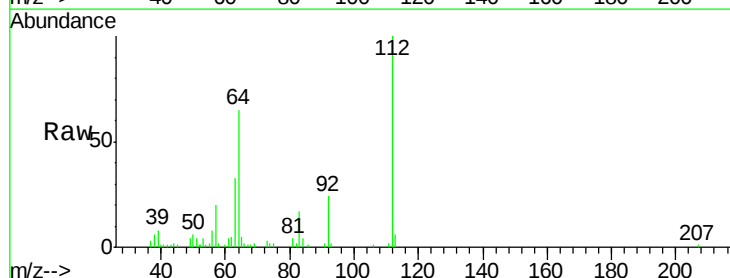
Tgt Ion:112 Resp: 49159

Ion Ratio Lower Upper

112 100

64 65.0 47.9 71.9

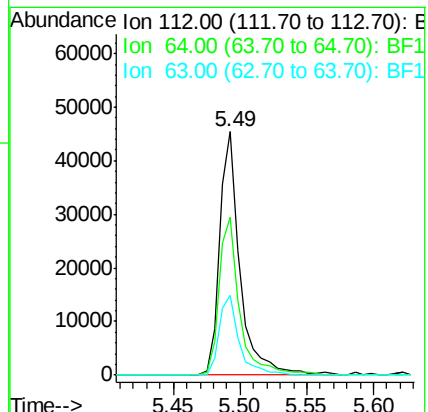
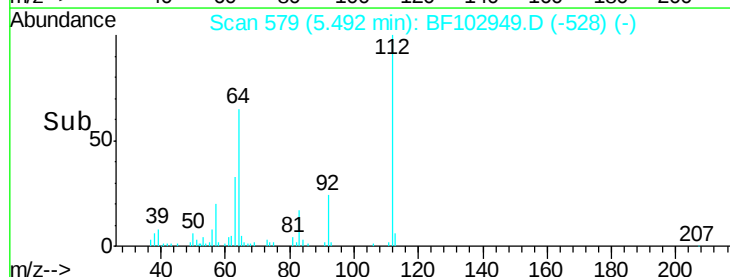
63 32.8 23.7 35.5

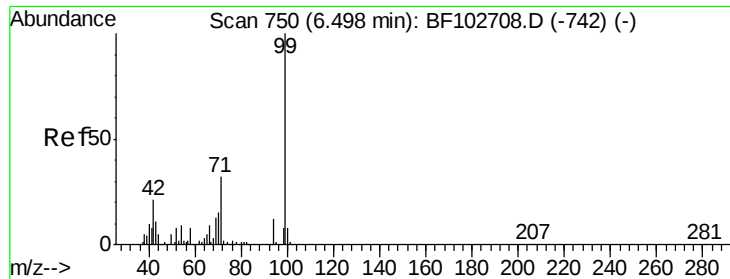


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 4.43 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

Instrument :

BNA_F

ClientSampleId :

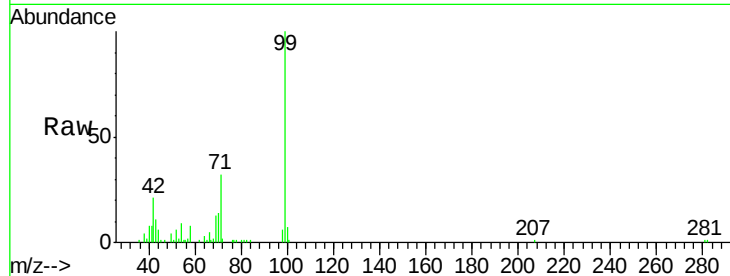
Tot Ion: 99 Resp: 56370

Ion Ratio Lower Upper

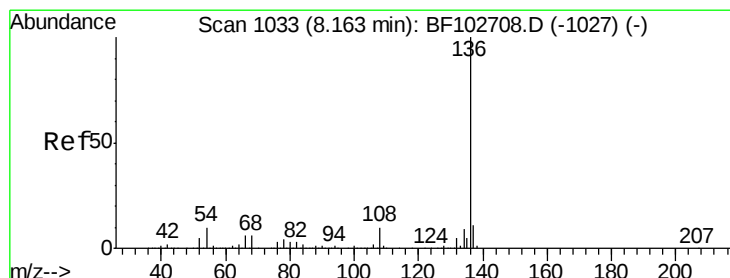
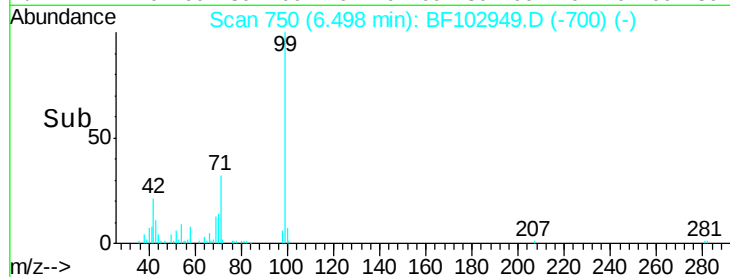
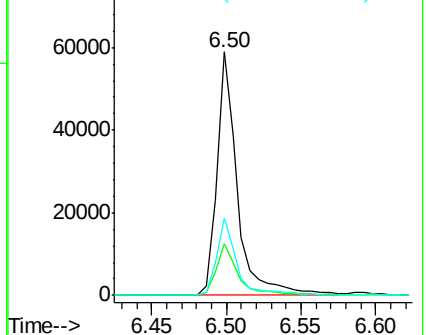
99 100

42 21.1 14.5 21.7

71 31.6 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: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

Tgt Ion: 136 Resp: 647458

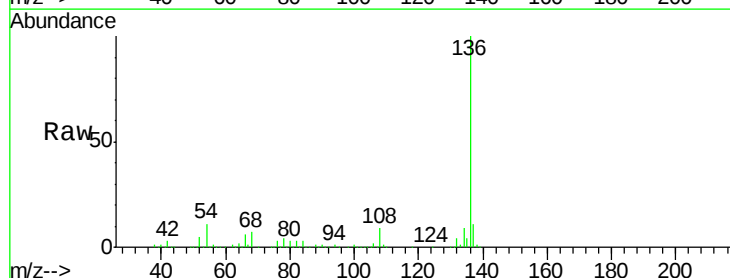
Ion Ratio Lower Upper

136 100

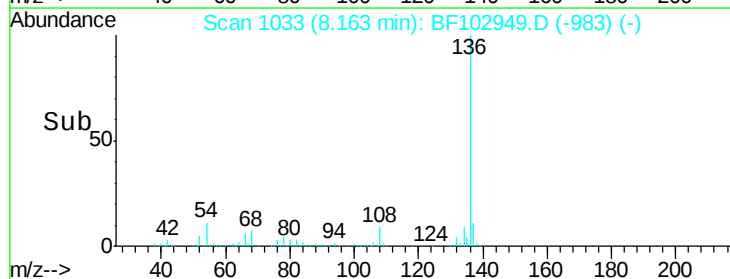
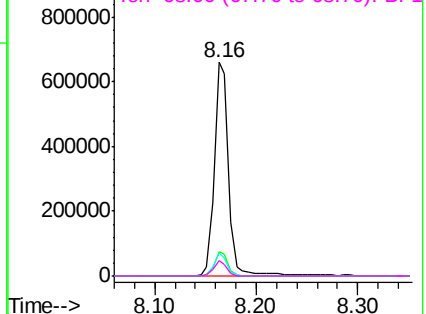
137 11.1 8.9 13.3

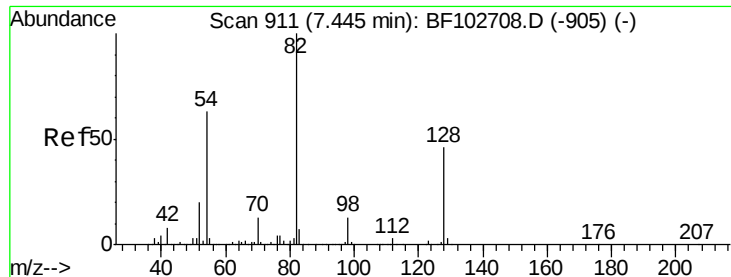
54 10.7 6.6 9.8#

68 7.1 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

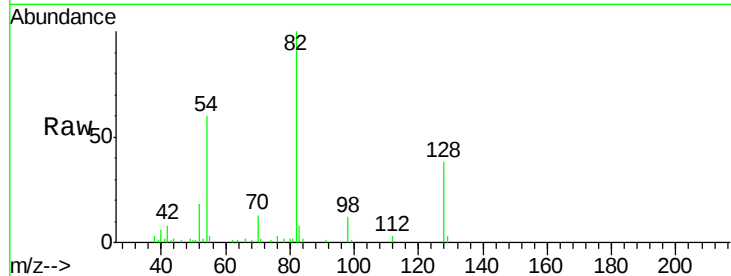




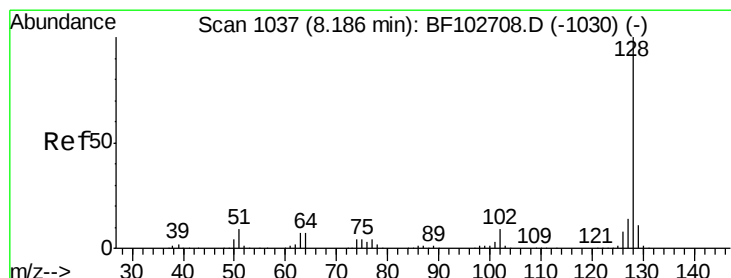
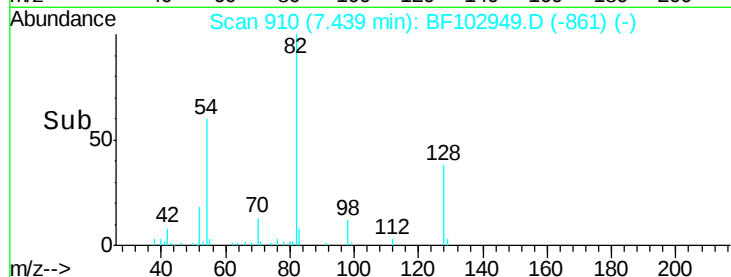
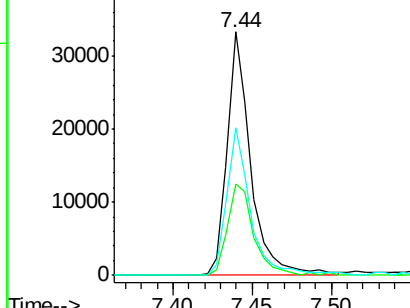
#23
Nitrobenzene-d5
Concen: 3.68 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF102949.D
Acq: 13 Feb 2018 5:00

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 34343
Ion Ratio Lower Upper
82 100
128 37.7 36.1 54.1
54 60.5 41.4 62.2

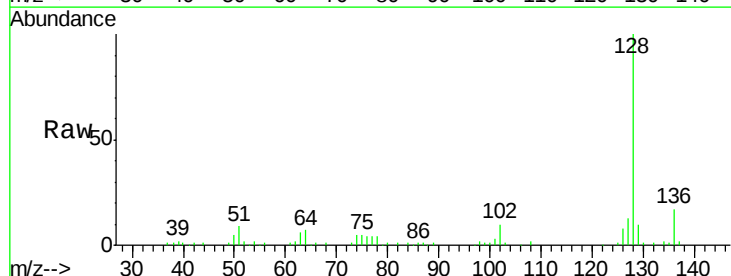


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

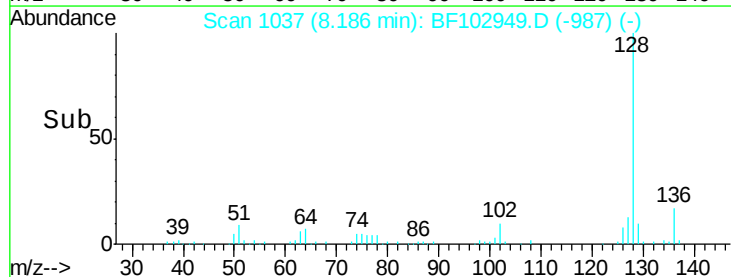
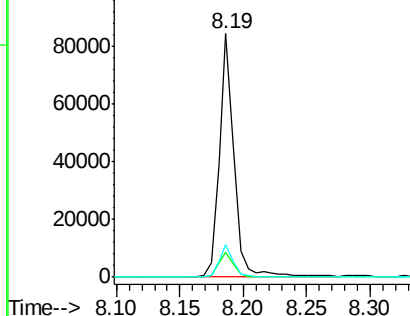


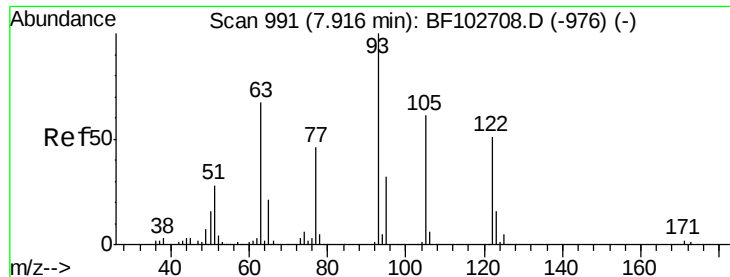
#31
Naphthalene
Concen: 2.19 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF102949.D
Acq: 13 Feb 2018 5:00

Tgt Ion: 128 Resp: 69426
Ion Ratio Lower Upper
128 100
129 10.1 8.8 13.2
127 13.4 10.9 16.3



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

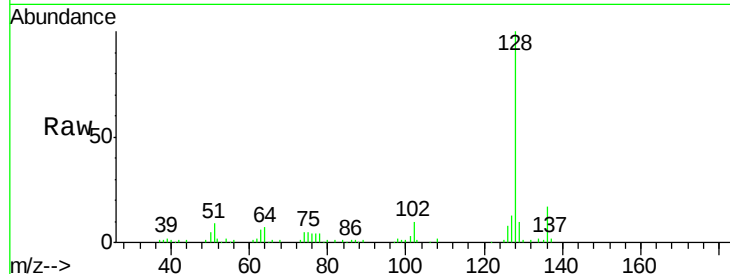




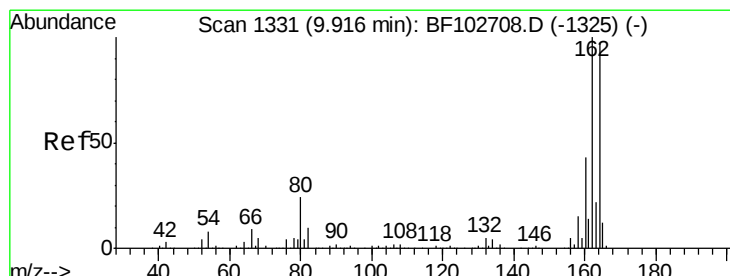
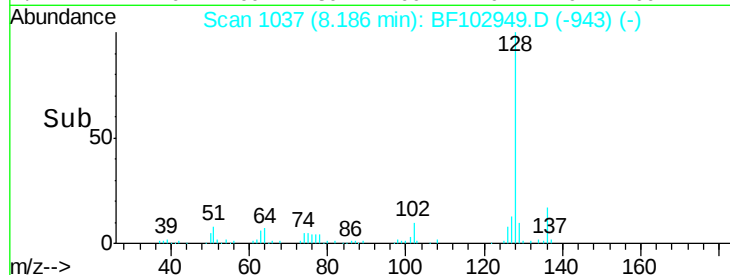
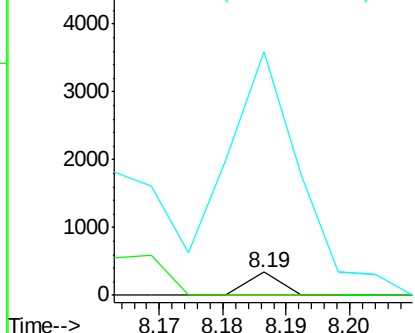
#32
Benzoic acid
Concen: 8.56 ng
RT: 8.19 min Scan# 1037
Delta R.T. 0.25 min
Lab File: BF102949.D
Acq: 13 Feb 2018 5:00

Instrument :
BNA_F
ClientSampled :

Tot Ion:122 Resp: 121
Ion Ratio Lower Upper
122 100
105 0.0 101.1 141.1#
77 1046.4 70.7 110.7#

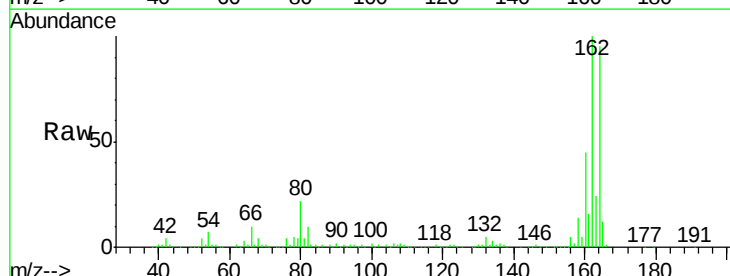


Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BF1

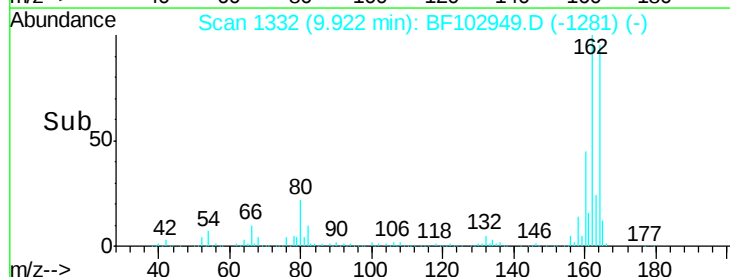
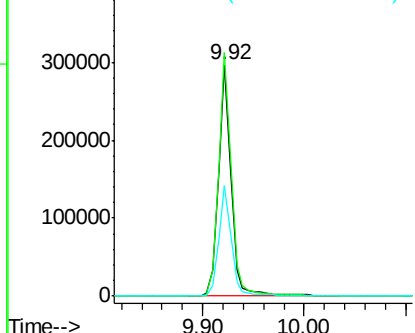


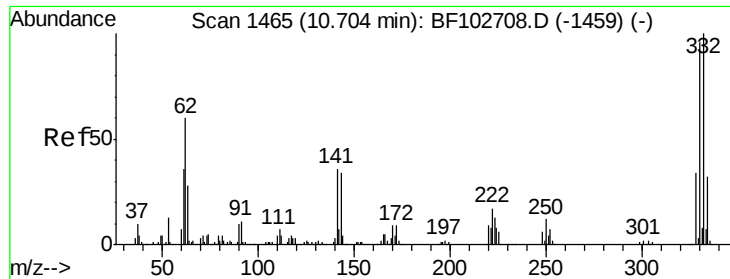
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.00 min
Lab File: BF102949.D
Acq: 13 Feb 2018 5:00

Tgt Ion:164 Resp: 261853
Ion Ratio Lower Upper
164 100
162 105.3 86.1 129.1
160 47.6 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

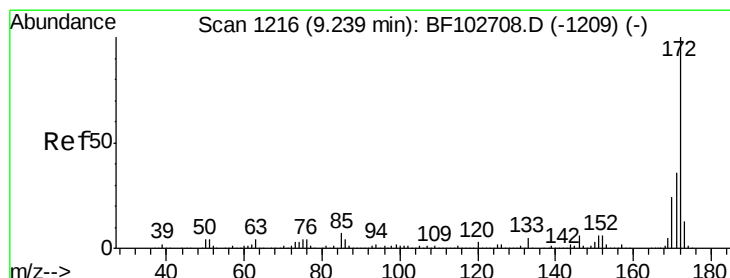
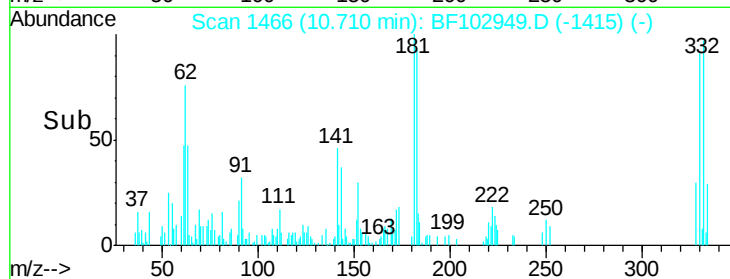
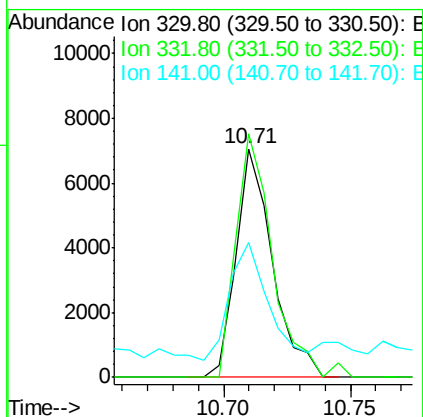
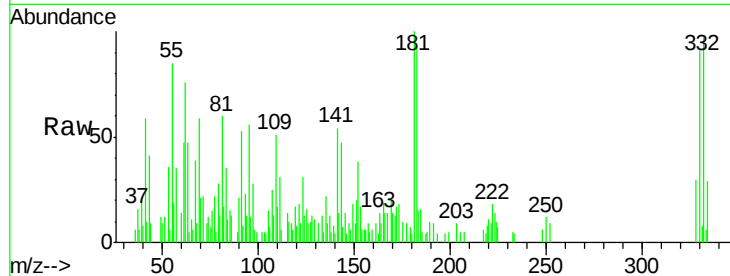




#41
 2,4,6-Tribromophenol
 Concen: 3.33 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: BF102949.D
 Acq: 13 Feb 2018 5:00

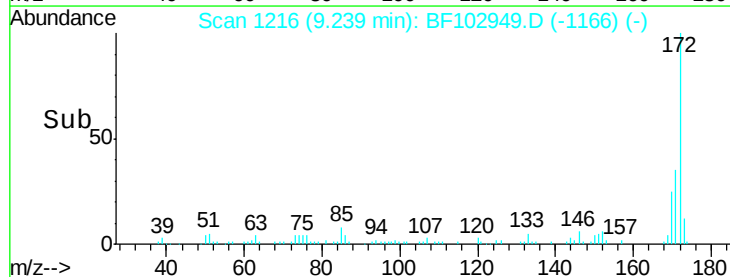
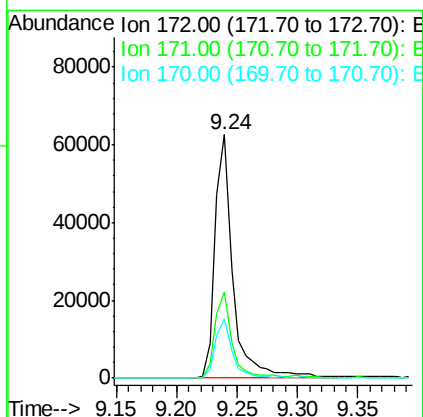
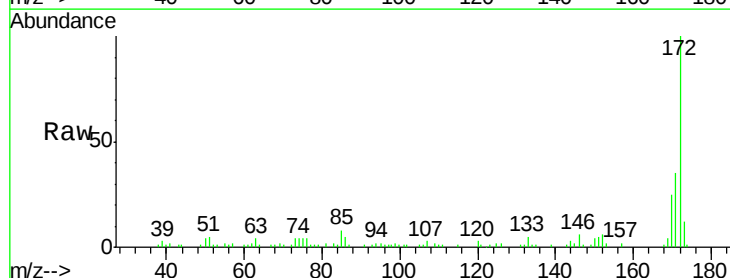
Instrument :
 BNA_F
 ClientSampleId :

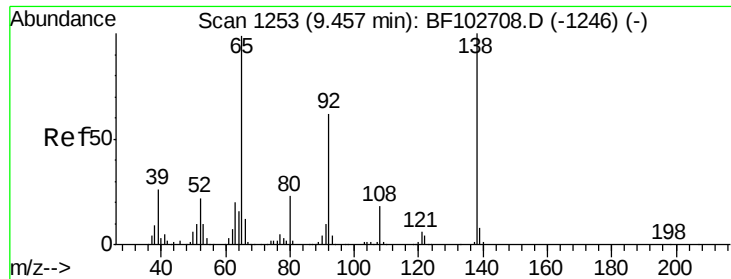
Tot Ion:330 Resp: 7026
 Ion Ratio Lower Upper
 330 100
 332 108.1 77.0 115.6
 141 53.5 29.9 44.9#



#44
 2-Fluorobiphenyl
 Concen: 4.05 ng
 RT: 9.24 min Scan# 1216
 Delta R.T. -0.01 min
 Lab File: BF102949.D
 Acq: 13 Feb 2018 5:00

Tgt Ion:172 Resp: 63911
 Ion Ratio Lower Upper
 172 100
 171 35.3 29.7 44.5
 170 24.5 19.6 29.4





#47

2-Nitroaniline

Concen: 3.54 ng

RT: 9.47 min Scan# 1255

Delta R.T. 0.01 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

Instrument :

BNA_F

ClientSampled :

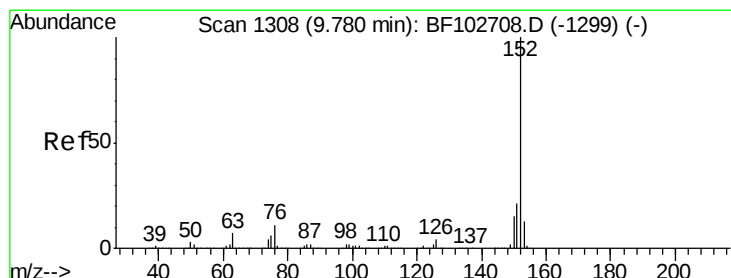
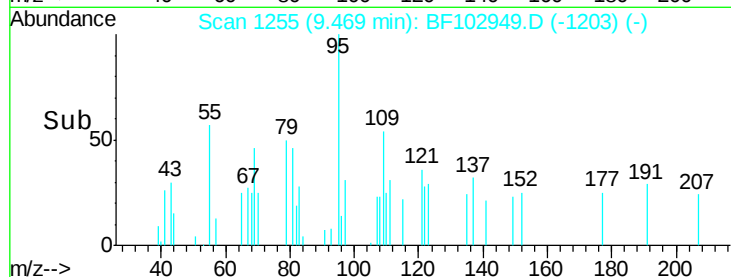
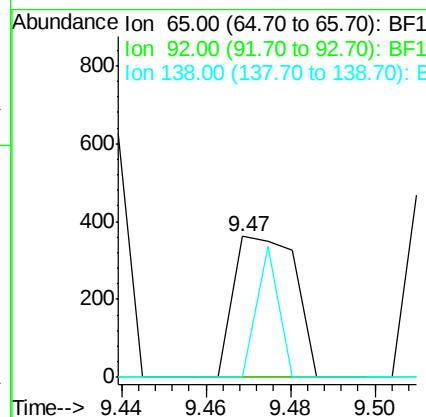
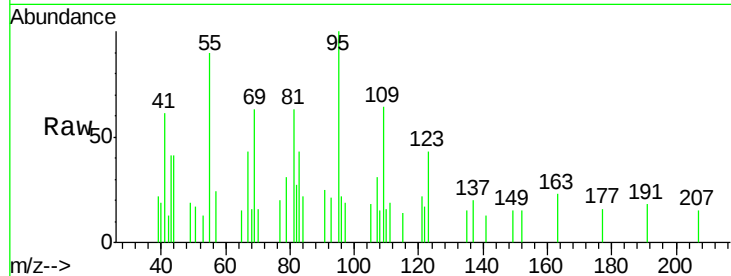
Tot Ion: 65 Resp: 366

Ion Ratio Lower Upper

65 100

92 0.0 55.8 83.6#

138 0.0 91.2 136.8#



#48

Acenaphthylene

Concen: 5.14 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

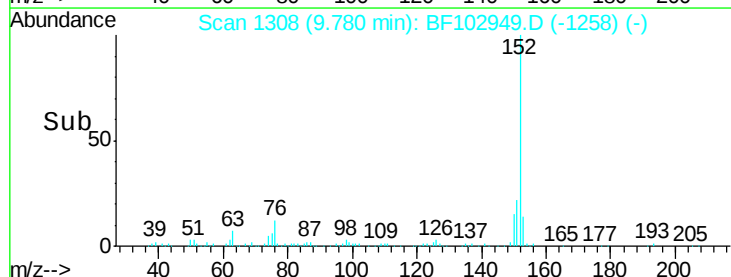
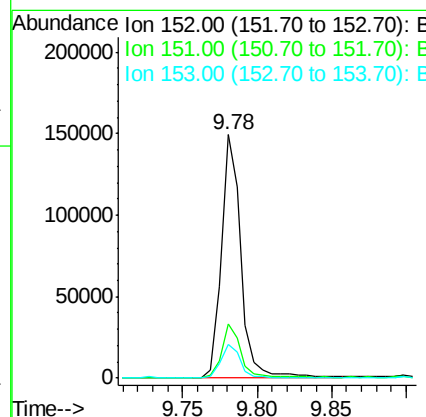
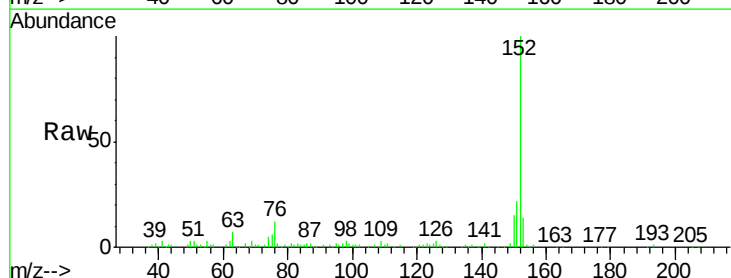
Tgt Ion: 152 Resp: 138541

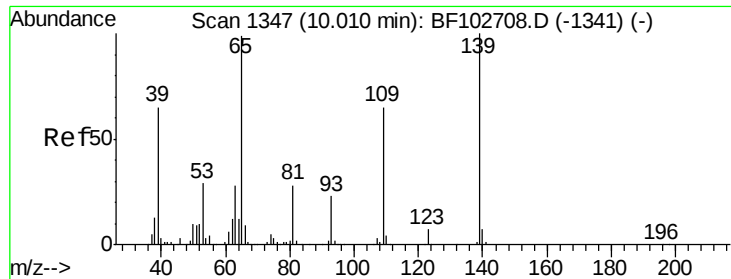
Ion Ratio Lower Upper

152 100

151 22.1 16.3 24.5

153 13.6 10.7 16.1





#55

4-Nitrophenol

Concen: 4.19 ng

RT: 10.03 min Scan# 1350

Delta R.T. 0.01 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

Instrument :

BNA_F

ClientSampled :

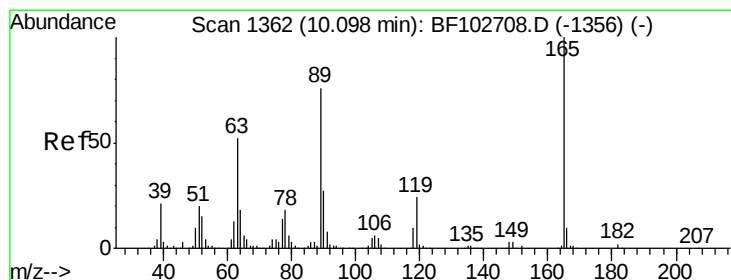
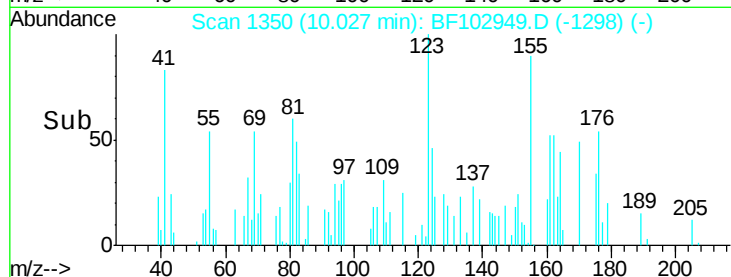
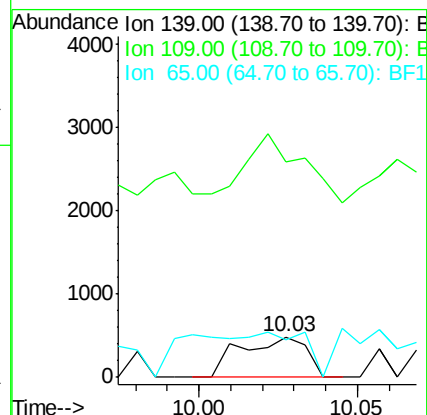
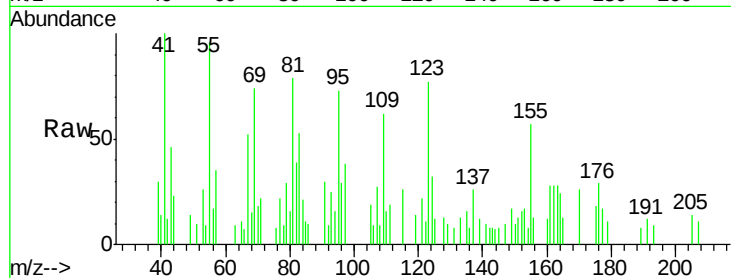
Tot Ion:139 Resp: 689

Ion Ratio Lower Upper

139 100

109 534.0 48.4 88.4#

65 91.5 72.6 112.6



#56

2,4-Dinitrotoluene

Concen: 9.57 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.18 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

Tgt Ion:165 Resp: 36145

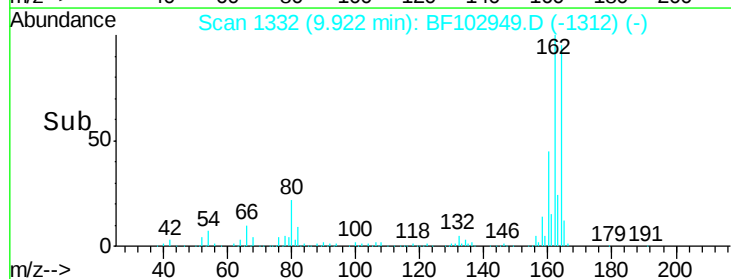
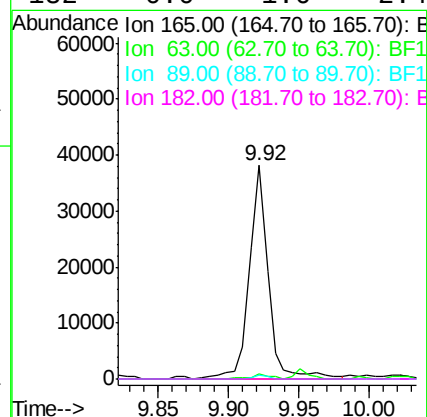
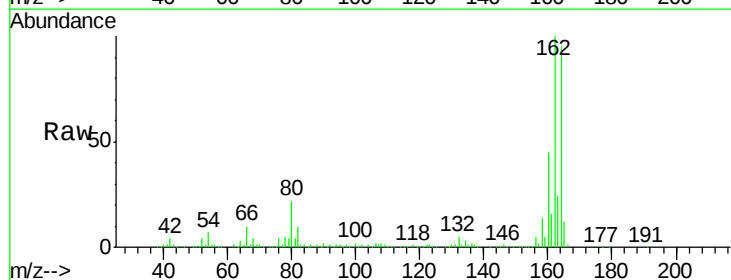
Ion Ratio Lower Upper

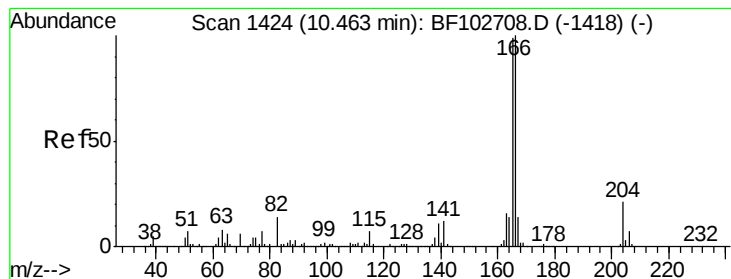
165 100

63 2.1 36.4 54.6#

89 1.9 57.8 86.6#

182 0.0 1.6 2.4#





#57

Fluorene

Concen: 2.32 ng

RT: 10.47 min Scan# 1425

Delta R.T. -0.01 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

Instrument :

BNA_F

ClientSampled :

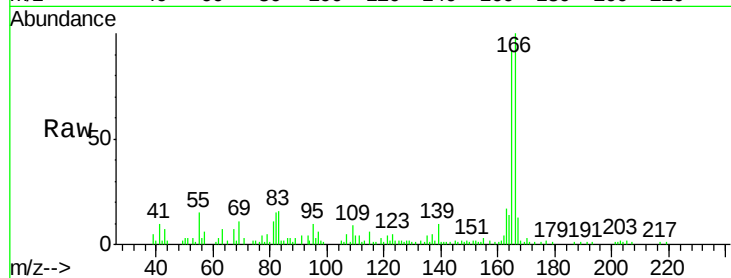
Tot Ion:166 Resp: 38364

Ion Ratio Lower Upper

166 100

165 92.2 79.8 119.8

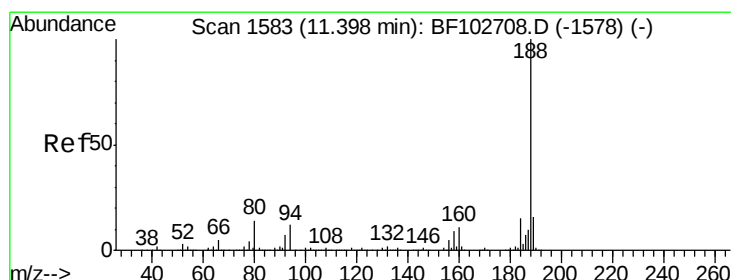
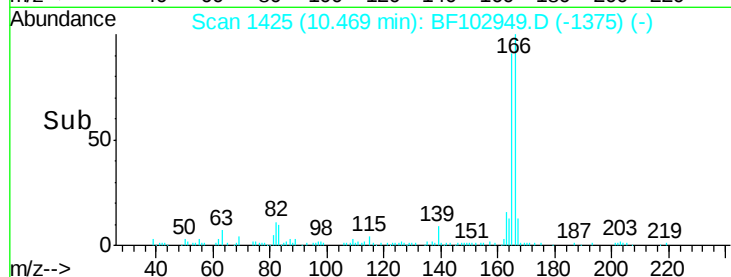
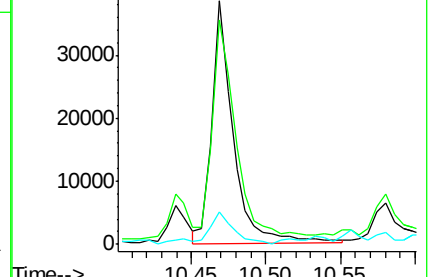
167 13.1 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.00 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

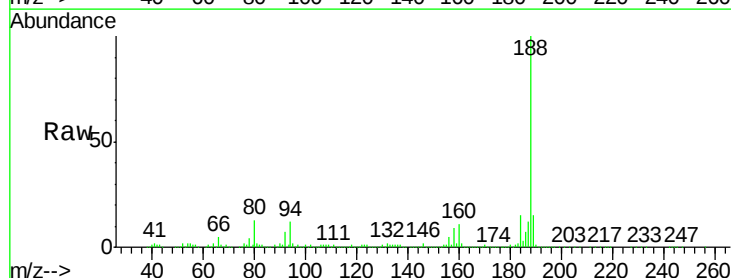
Tgt Ion:188 Resp: 377365

Ion Ratio Lower Upper

188 100

94 12.3 8.5 12.7

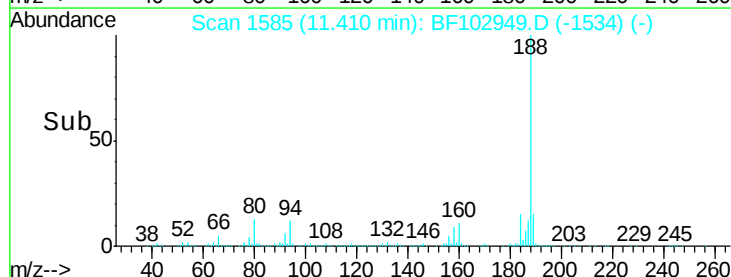
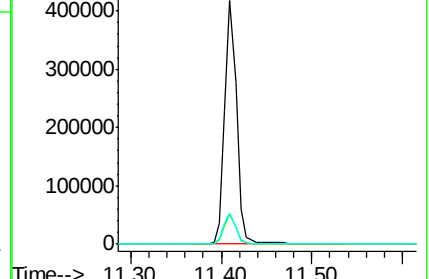
80 12.9 9.2 13.8

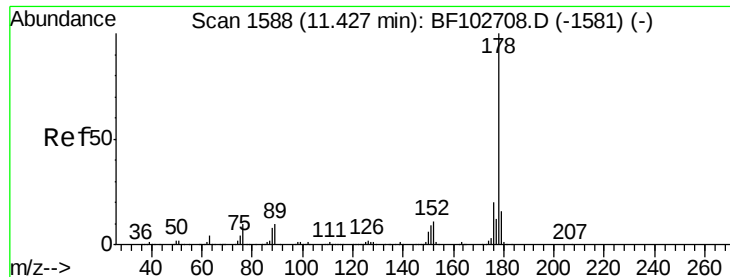


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#70

Phenanthrene

Concen: 18.40 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.00 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

Instrument :

BNA_F

ClientSampleId :

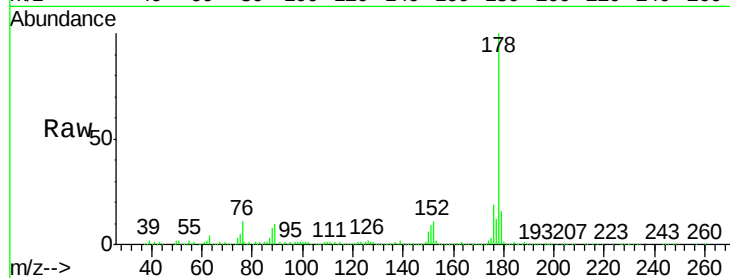
Tot Ion:178 Resp: 386708

Ion Ratio Lower Upper

178 100

176 19.5 15.8 23.8

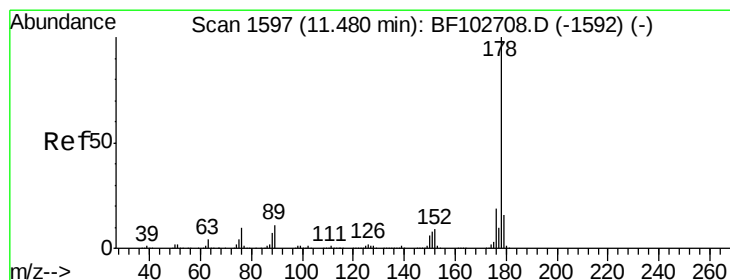
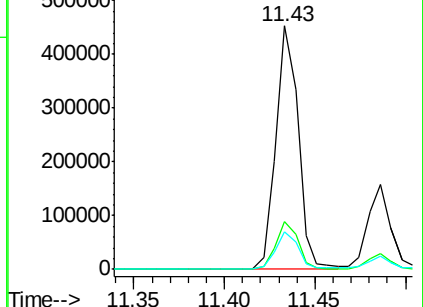
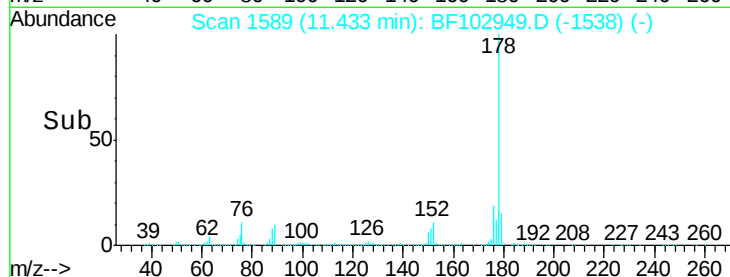
179 15.6 13.0 19.6



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: 6.49 ng

RT: 11.49 min Scan# 1598

Delta R.T. -0.00 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

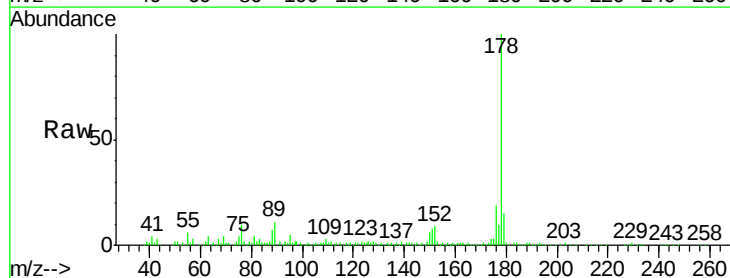
Tgt Ion:178 Resp: 138725

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

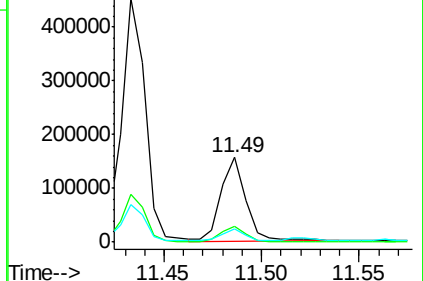
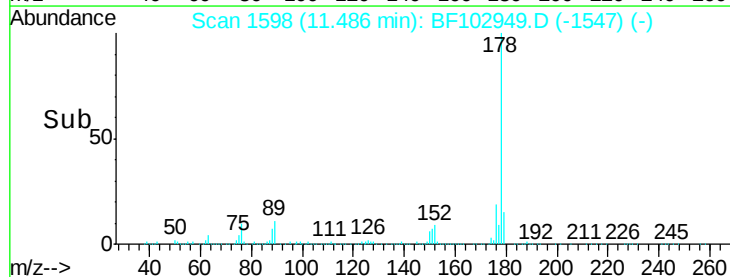
179 15.4 12.6 19.0

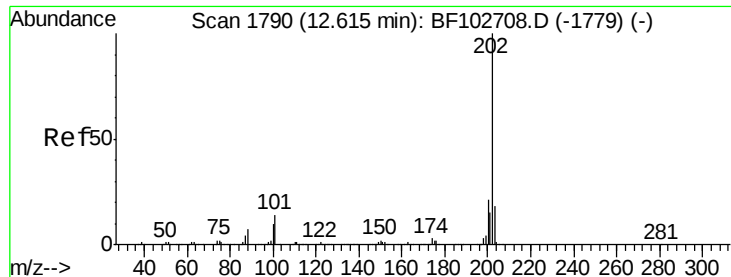


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 28.60 ng

RT: 12.63 min Scan# 1792

Delta R.T. 0.01 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

Instrument :

BNA_F

ClientSampleId :

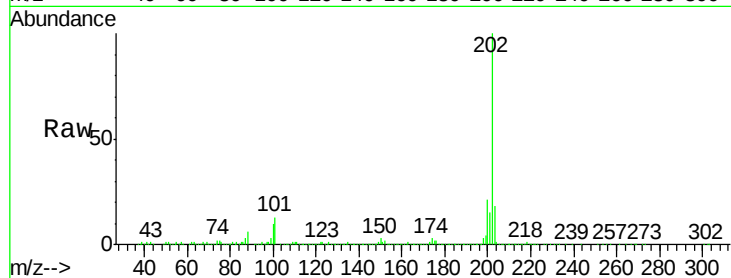
Tot Ion:202 Resp: 604706

Ion Ratio Lower Upper

202 100

101 13.4 0.0 34.1

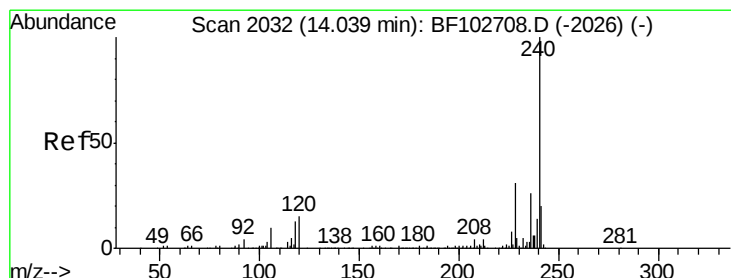
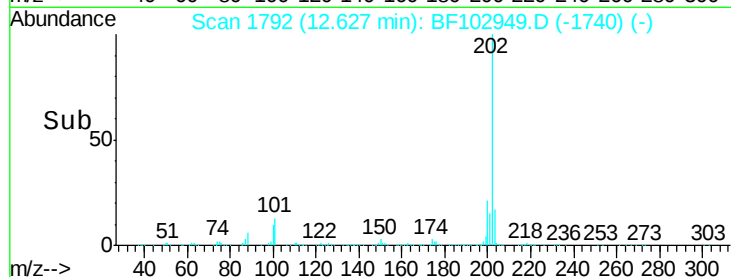
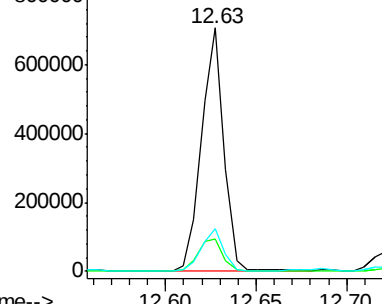
203 17.5 0.0 38.1



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: 14.06 min Scan# 2035

Delta R.T. 0.01 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

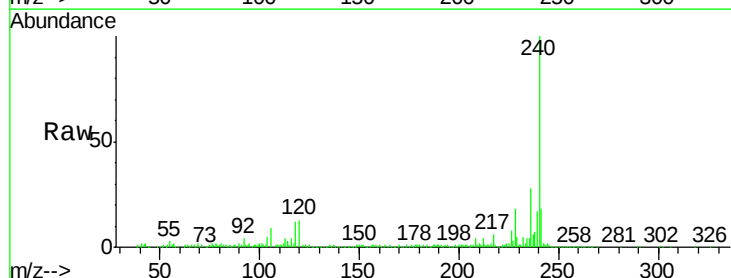
Tgt Ion:240 Resp: 293593

Ion Ratio Lower Upper

240 100

120 13.3 9.5 14.3

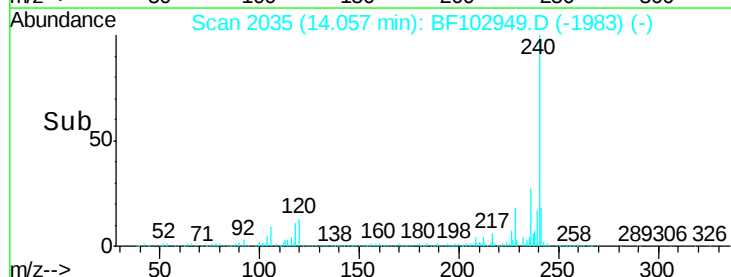
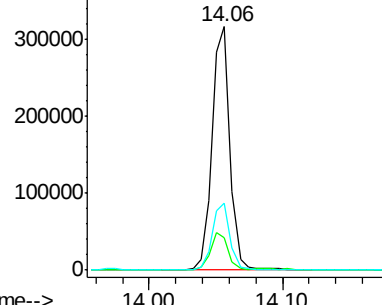
236 27.7 20.7 31.1

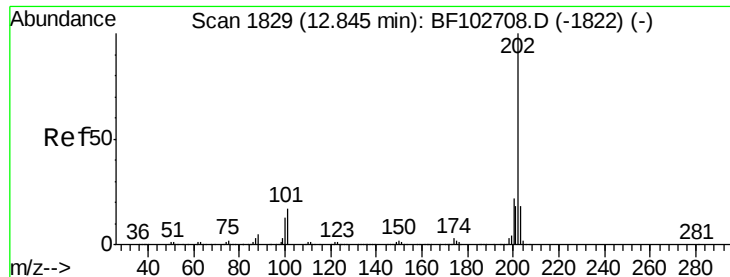


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 22.42 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.01 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

Instrument :

BNA_F

ClientSampleId :

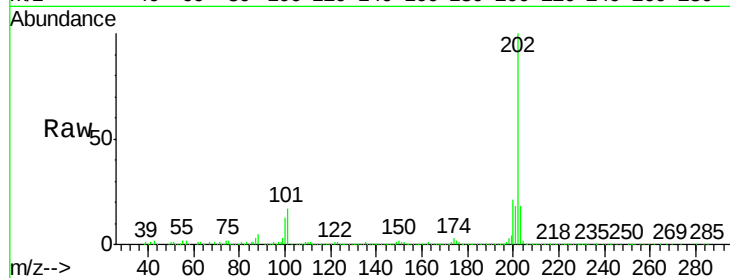
Tot Ion:202 Resp: 516070

Ion Ratio Lower Upper

202 100

200 21.3 17.4 26.2

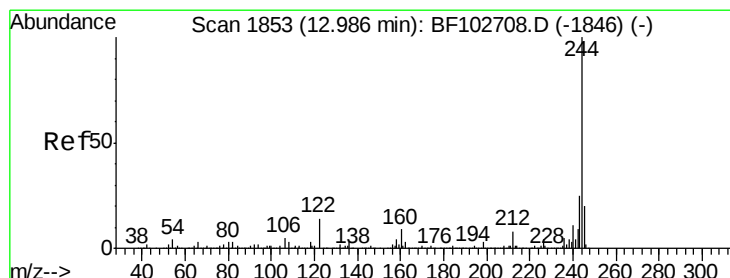
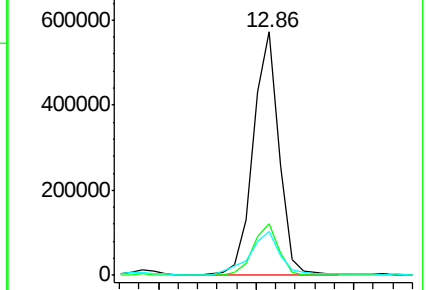
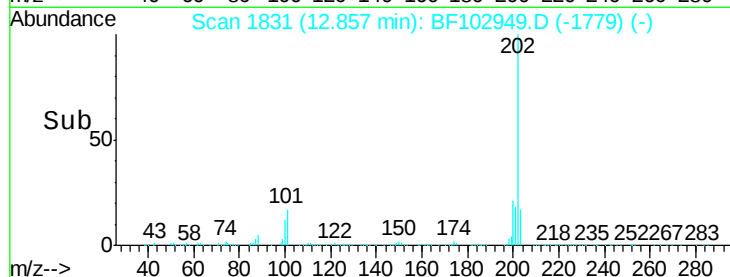
203 17.9 14.3 21.5



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: 3.46 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

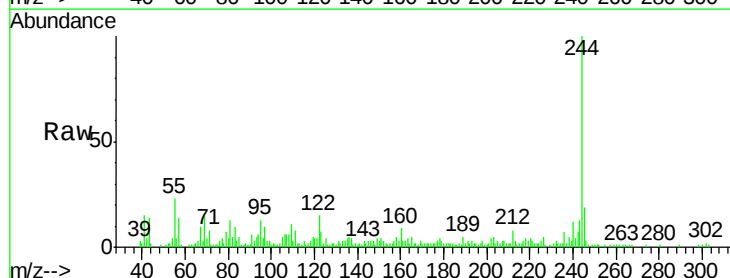
Tgt Ion:244 Resp: 42942

Ion Ratio Lower Upper

244 100

212 8.0 5.4 8.0

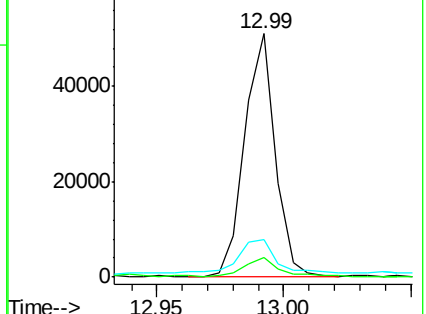
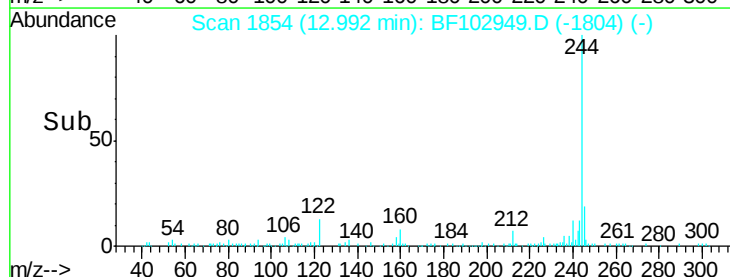
122 15.2 11.0 16.4

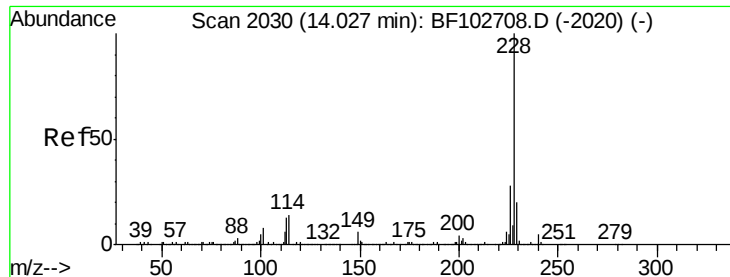


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 18.64 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.01 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

Instrument :

BNA_F

ClientSampleId :

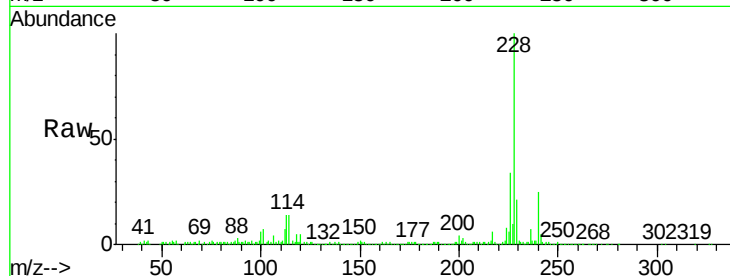
Tot Ion:228 Resp: 344222

Ion Ratio Lower Upper

228 100

226 33.8 22.6 33.8

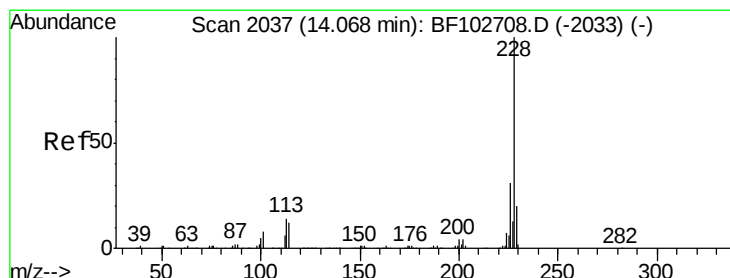
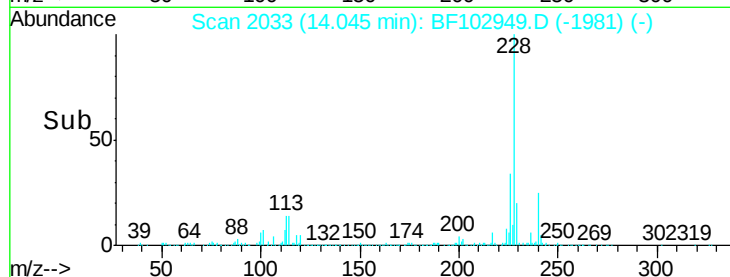
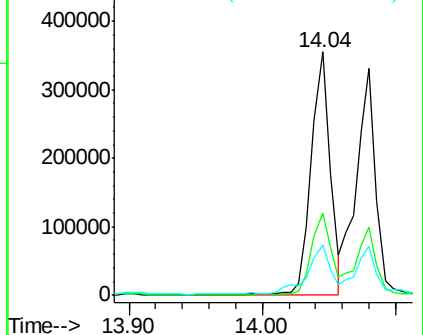
229 20.6 15.8 23.6



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: 17.94 ng

RT: 14.08 min Scan# 2039

Delta R.T. -0.00 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

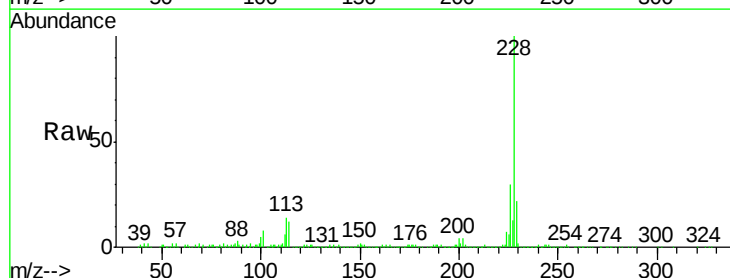
Tgt Ion:228 Resp: 333831

Ion Ratio Lower Upper

228 100

226 29.9 25.0 37.6

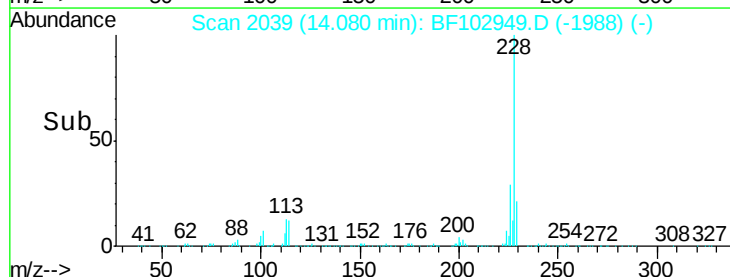
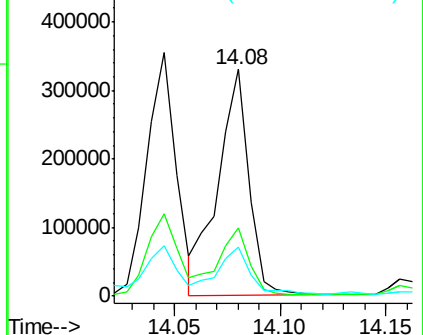
229 21.7 16.2 24.4

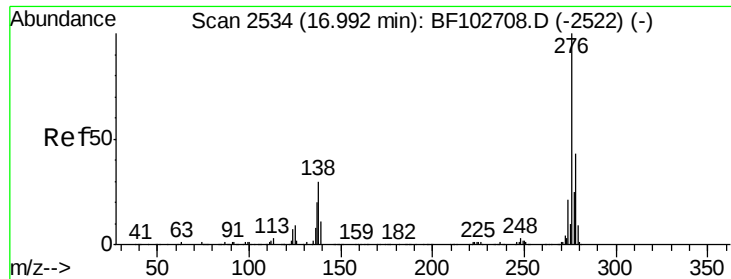


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

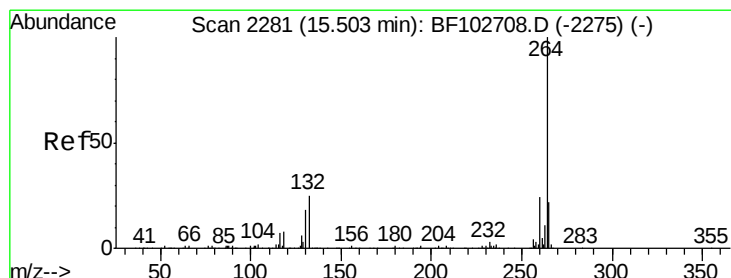
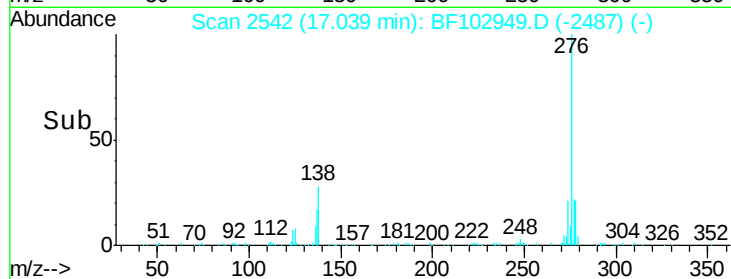
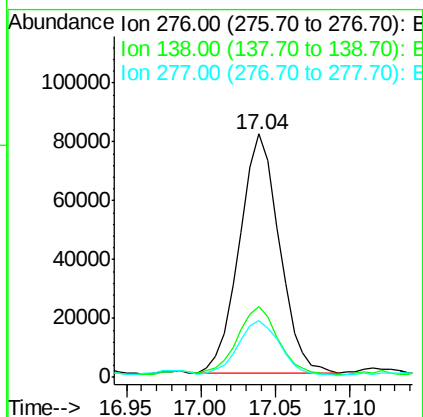
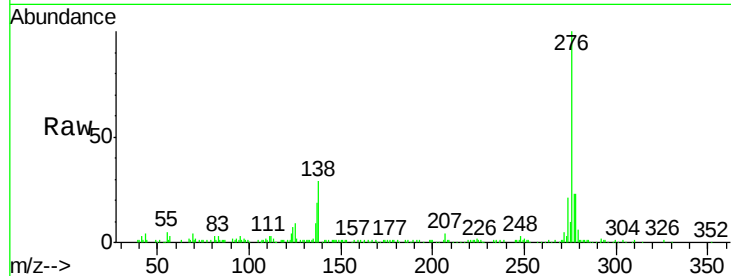




#85
Indeno(1,2,3-cd)pyrene
Concen: 9.82 ng
RT: 17.04 min Scan# 2542
Delta R.T. 0.02 min
Lab File: BF102949.D
Acq: 13 Feb 2018 5:00

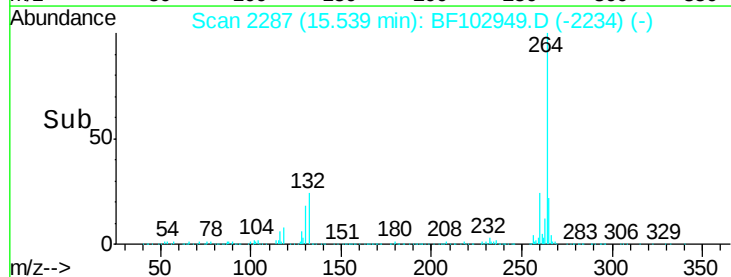
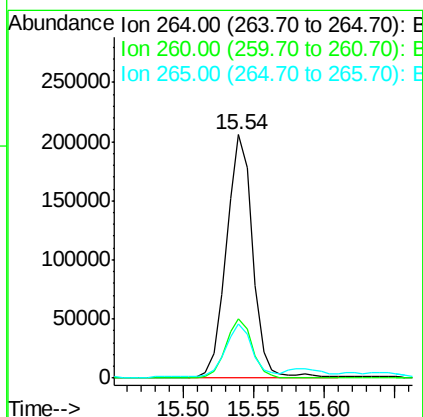
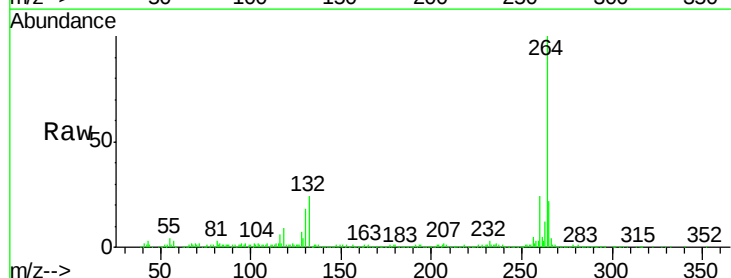
Instrument :
BNA_F
ClientSampleId :

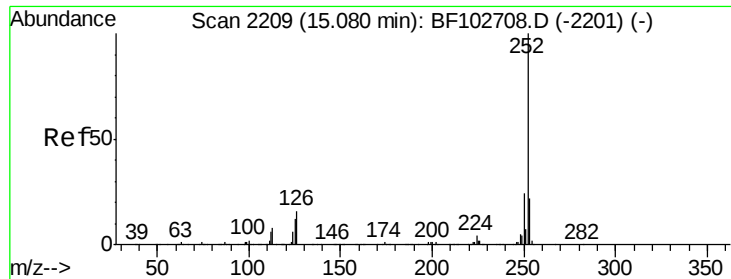
Tot Ion	Ratio	Lower	Upper
276	100		
138	28.3	25.0	37.6
277	24.3	20.1	30.1



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.54 min Scan# 2287
Delta R.T. 0.01 min
Lab File: BF102949.D
Acq: 13 Feb 2018 5:00

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	22.4	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 31.32 ng

RT: 15.10 min Scan# 2213

Delta R.T. 0.01 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

Instrument :

BNA_F

ClientSampleId :

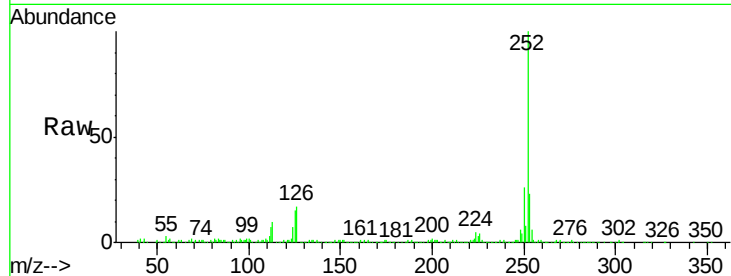
Tot Ion:252 Resp: 538241

Ion Ratio Lower Upper

252 100

253 23.2 17.0 25.6

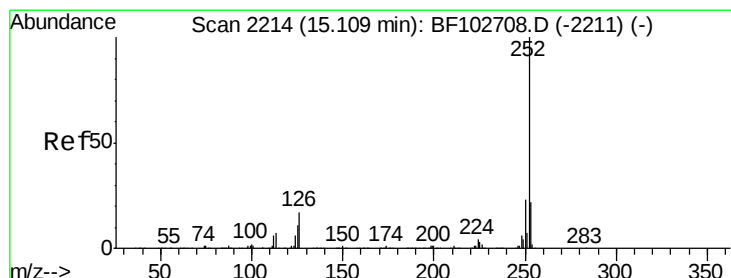
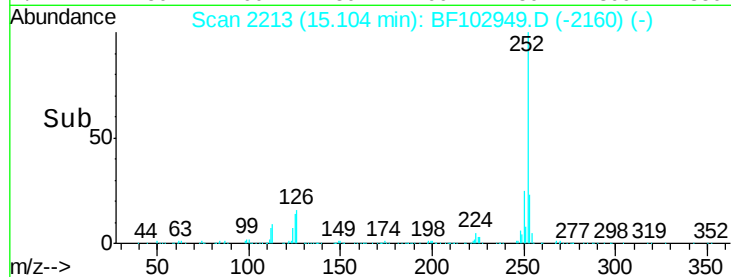
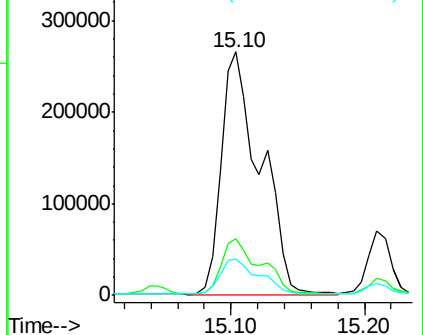
125 15.0 9.0 13.6#



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: 32.78 ng

RT: 15.10 min Scan# 2213

Delta R.T. -0.02 min

Lab File: BF102949.D

Acq: 13 Feb 2018 5:00

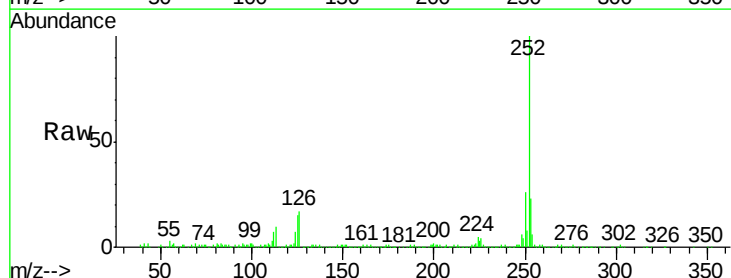
Tgt Ion:252 Resp: 538241

Ion Ratio Lower Upper

252 100

253 23.2 17.9 26.9

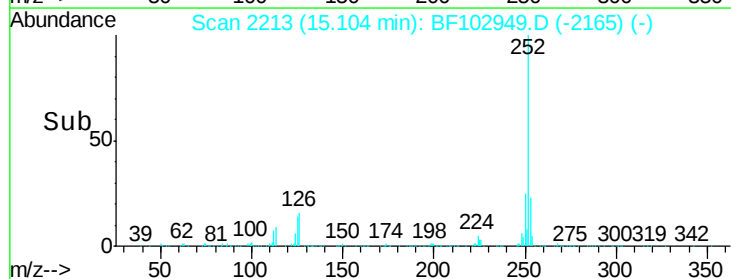
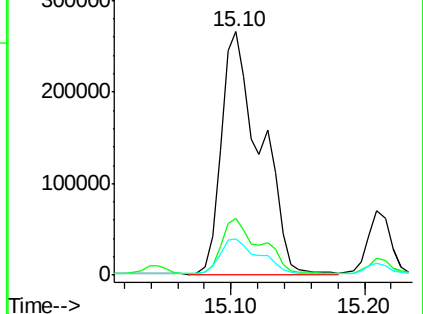
125 15.0 10.2 15.2

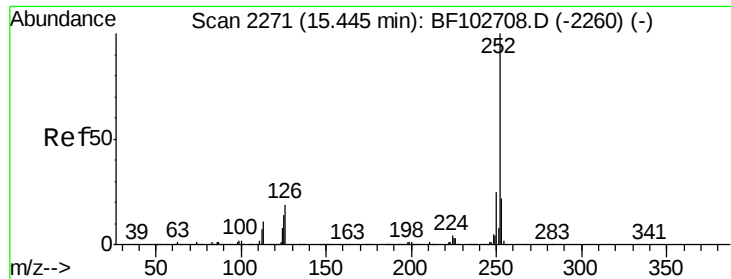


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

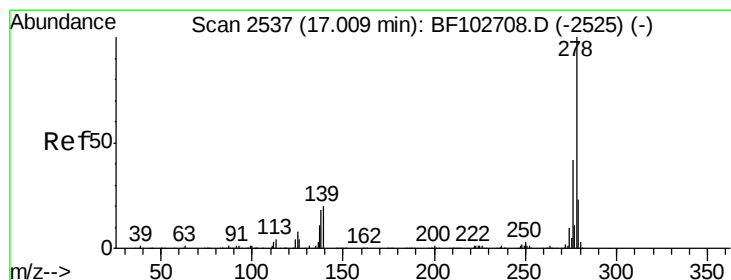
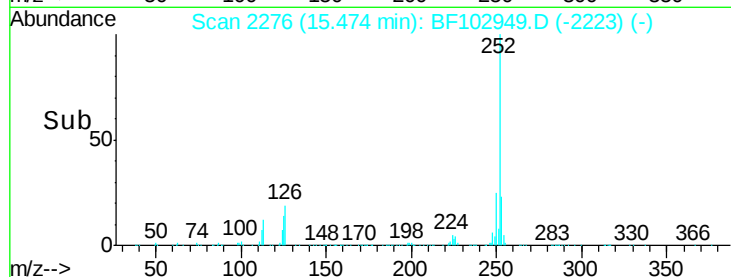
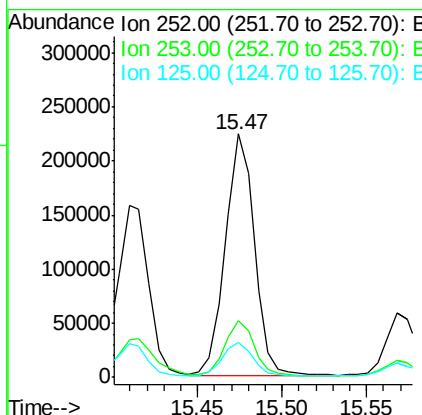
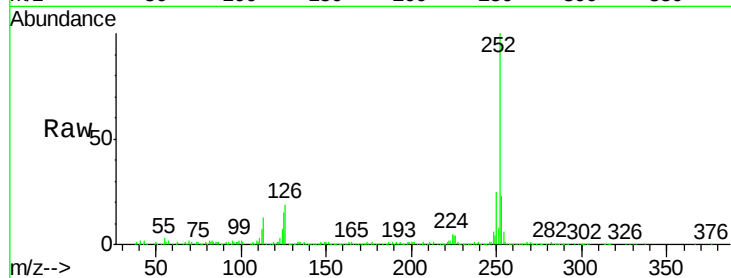




#89
Benzo(a)pyrene
Concen: 17.44 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.01 min
Lab File: BF102949.D
Acq: 13 Feb 2018 5:00

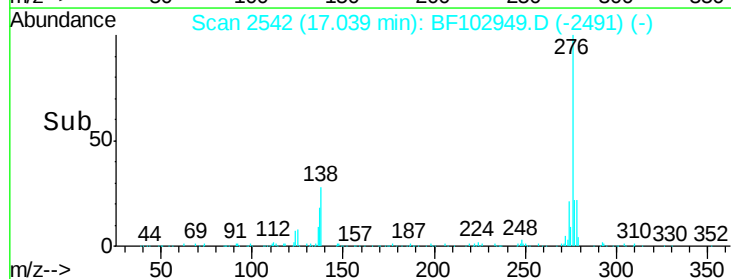
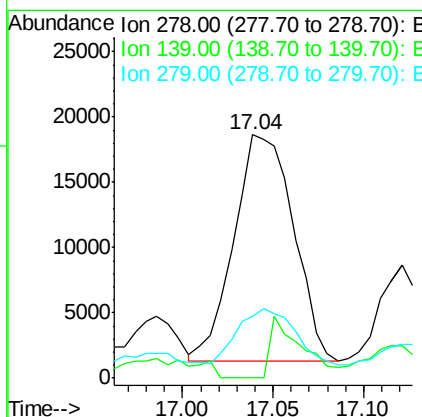
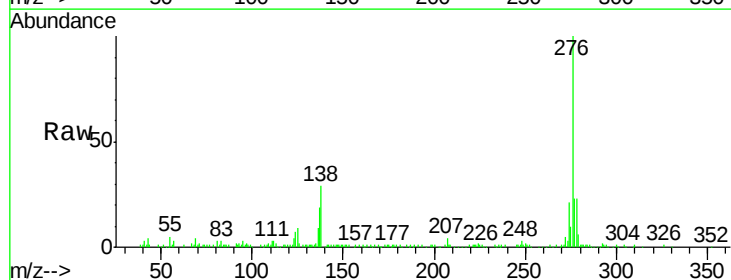
Instrument :
BNA_F
ClientSampleId :

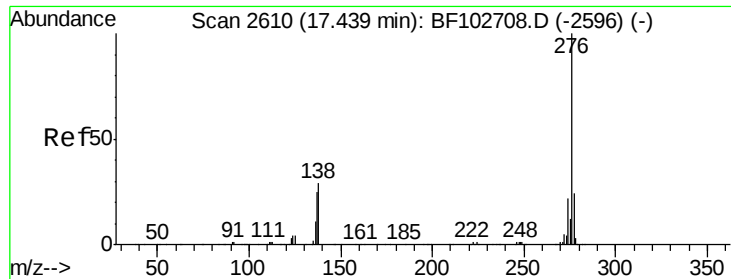
Tot Ion:252 Resp: 269763
Ion Ratio Lower Upper
252 100
253 23.4 17.1 25.7
125 14.6 9.8 14.6



#90
Dibenzo(a,h)anthracene
Concen: 3.15 ng
RT: 17.04 min Scan# 2542
Delta R.T. -0.00 min
Lab File: BF102949.D
Acq: 13 Feb 2018 5:00

Tgt Ion:278 Resp: 39593
Ion Ratio Lower Upper
278 100
139 0.0 15.9 23.9#
279 25.3 19.0 28.4

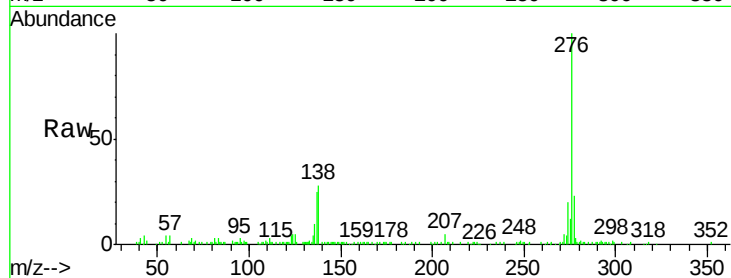




#91
 Benzo(a,h,i)perylene
 Concen: 12.29 ng
 RT: 17.50 min Scan# 2620
 Delta R.T. 0.02 min
 Lab File: BF102949.D
 Acq: 13 Feb 2018 5:00

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.4	17.9	26.9
138	27.9	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

