

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022218\
 Data File : BF103169.D
 Acq On : 22 Feb 2018 18:22
 Operator : SJ/JU
 Sample : J1634-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RO-72-11931

Quant Time: Feb 23 02:11:30 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 22 14:52:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	162494	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	625590	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	248364	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	380082	20.00	ng	0.00
75) Chrysene-d12	14.05	240	275577	20.00	ng	0.00
86) Perylene-d12	15.54	264	248777	20.00	ng	0.00

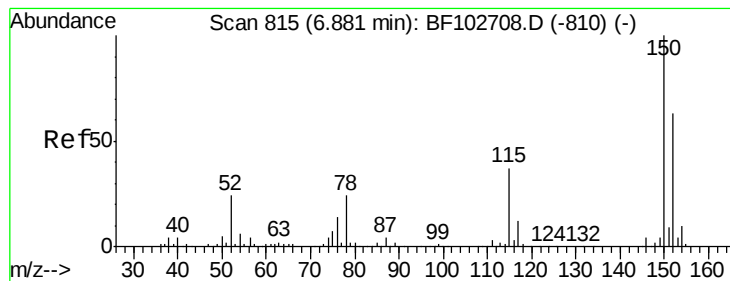
System Monitoring Compounds

5) 2-Fluorophenol	5.50	112	978284	91.05	ng	0.01
7) Phenol-d6	6.50	99	1163576	88.51	ng	0.00
23) Nitrobenzene-d5	7.43	82	681369	62.20	ng	0.00
41) 2,4,6-Tribromophenol	10.71	330	180435	85.83	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	910315	58.50	ng	0.00
78) Terphenyl-d14	12.99	244	645711	56.33	ng	0.00

Target Compounds

					Qvalue	
9) Benzaldehyde	6.40	77	2327	Below Cal	#	16
18) Hexachloroethane	7.40	117	37607	8.078 ng	#	1
28) bis(2-Chloroethoxy)methane	7.65	93	34515	2.721 ng		92
32) Benzoic acid	7.94	122	6611	7.793 ng	#	24
35) Caprolactam	8.60	113	6913	2.367 ng	#	1
37) 2-Methylnaphthalene	8.97	142	284587	14.377 ng		95
49) Dimethylphthalate	9.62	163	77093	3.869 ng	#	78
51) Acenaphthene	9.95	154	123651	8.371 ng		95
53) 2,4-Dinitrophenol	9.97	184	755	10.061 ng	#	1
57) Fluorene	10.46	166	93588	5.418 ng	#	94
64) 4,6-Dinitro-2-methylphenol	10.53	198	1318	5.457 ng	#	1
65) n-Nitrosodiphenylamine	10.57	169	43535	3.290 ng	#	68
70) Phenanthrene	11.43	178	259528	12.407 ng		99
71) Anthracene	11.43	178	259528	12.100 ng		98
74) Fluoranthene	12.62	202	96839	4.607 ng		97
77) Pyrene	12.85	202	126534	5.889 ng		98
80) Benzo(a)anthracene	14.04	228	46869	2.621 ng	#	86
82) Chrysene	14.07	228	42801	2.465 ng		94
87) Benzo(b)fluoranthene	15.11	252	55455	3.390 ng	#	70
88) Benzo(k)fluoranthene	15.11	252	55455	3.600 ng	#	73
89) Benzo(a)pyrene	15.48	252	33063	2.264 ng	#	75

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

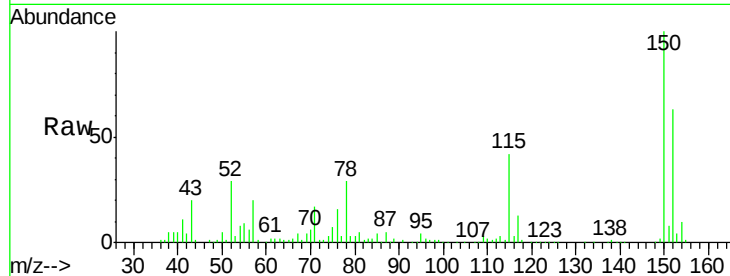


#1

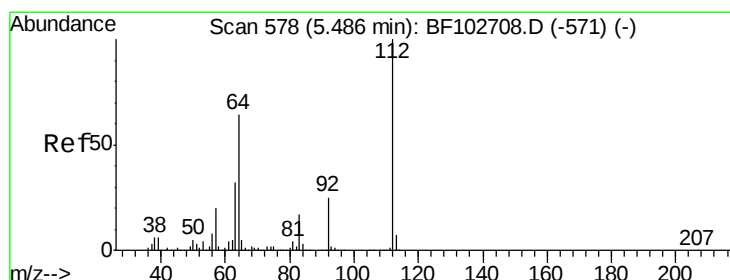
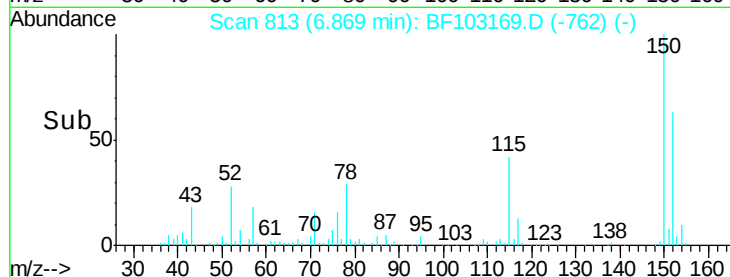
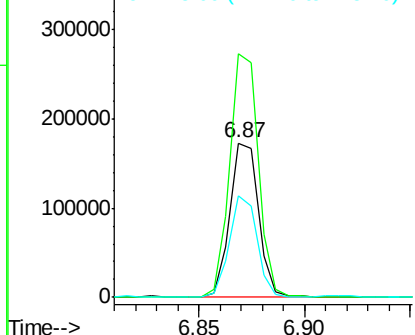
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 813
Delta R.T. -0.00 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

Instrument :
BNA_F
ClientSampleId :
RO-72-11931

Tot Ion:152 Resp: 162494
Ion Ratio Lower Upper
152 100
150 157.8 124.6 186.8
115 66.2 50.1 75.1



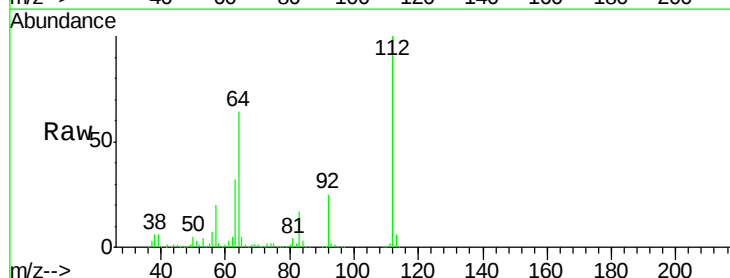
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



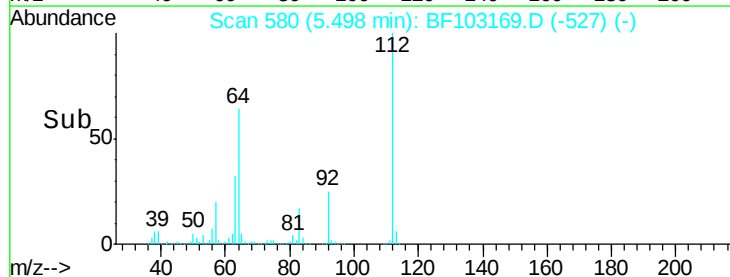
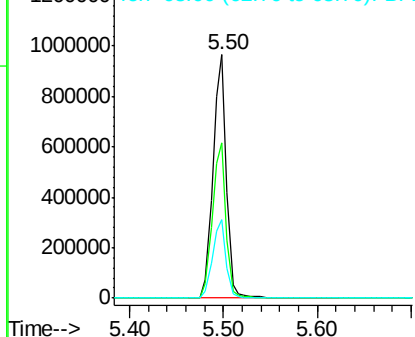
#5

2-Fluorophenol
Concen: 91.055 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.01 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

Tgt Ion:112 Resp: 978284
Ion Ratio Lower Upper
112 100
64 63.8 47.9 71.9
63 32.0 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: 88.506 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: BF103169.D

Acq: 22 Feb 2018 18:22

Instrument :

BNA_F

ClientSampled :

RO-72-11931

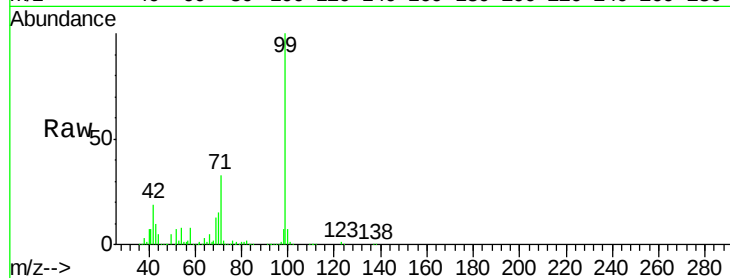
Tot Ion: 99 Resp: 1163576

Ion Ratio Lower Upper

99 100

42 19.4 14.5 21.7

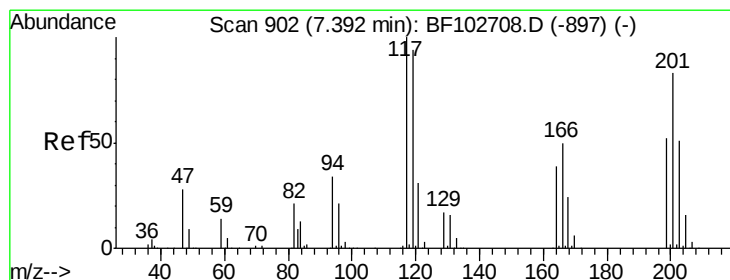
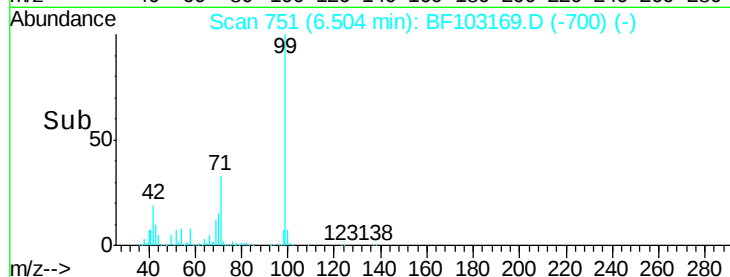
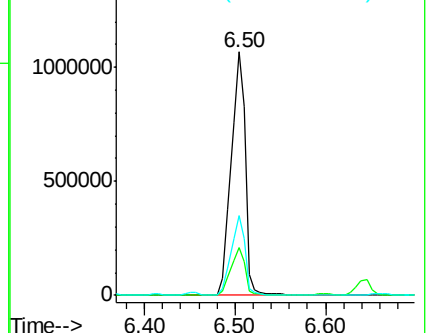
71 32.8 25.4 38.0



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



#18

Hexachloroethane

Concen: 8.078 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.02 min

Lab File: BF103169.D

Acq: 22 Feb 2018 18:22

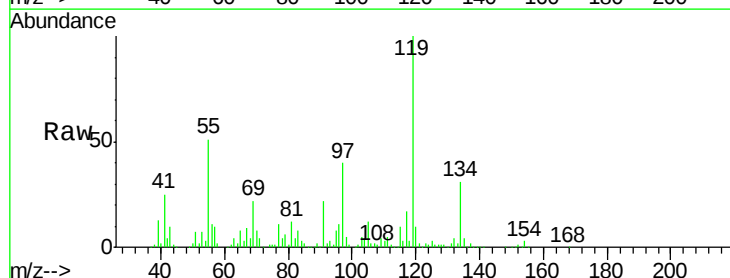
Tgt Ion: 117 Resp: 37607

Ion Ratio Lower Upper

117 100

119 597.7 75.8 113.8#

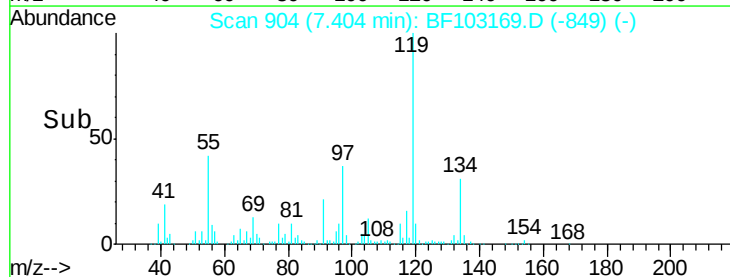
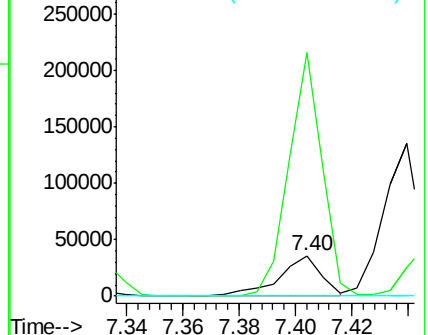
201 0.0 75.7 113.5#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.00 min

Lab File: BF103169.D

Acq: 22 Feb 2018 18:22

Instrument :

BNA_F

ClientSampleId :

RO-72-11931

Tot Ion:136 Resp: 625590

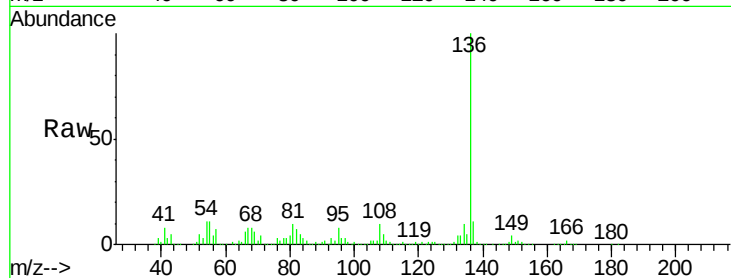
Ion Ratio Lower Upper

136 100

137 11.5 8.9 13.3

54 10.6 6.6 9.8#

68 8.0 5.0 7.4#

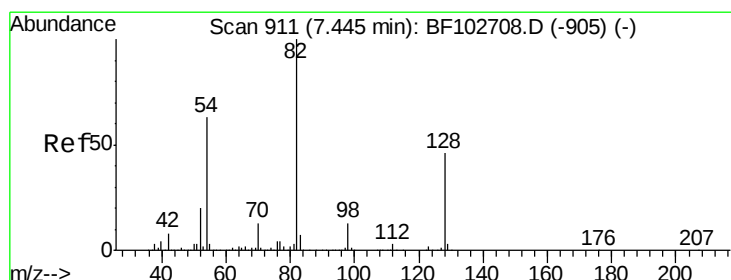
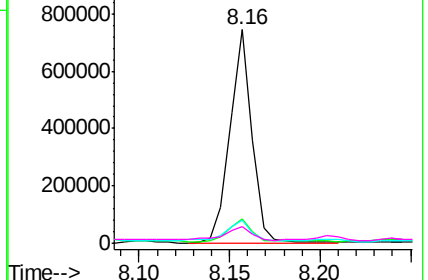
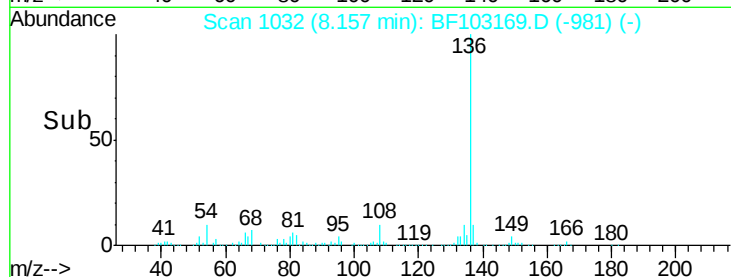


Abundance Ion 136.00 (135.70 to 136.70): E

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: 62.200 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.01 min

Lab File: BF103169.D

Acq: 22 Feb 2018 18:22

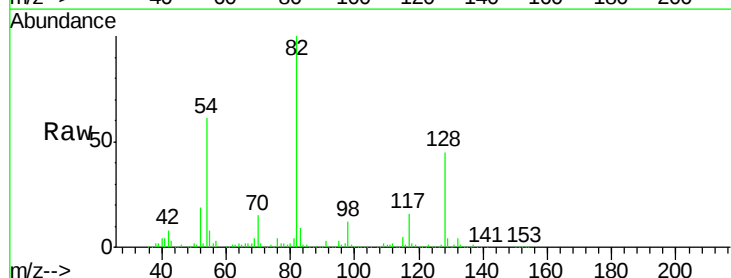
Tgt Ion: 82 Resp: 681369

Ion Ratio Lower Upper

82 100

128 45.3 36.1 54.1

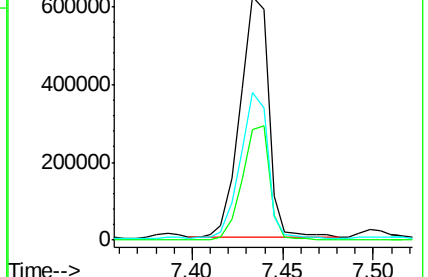
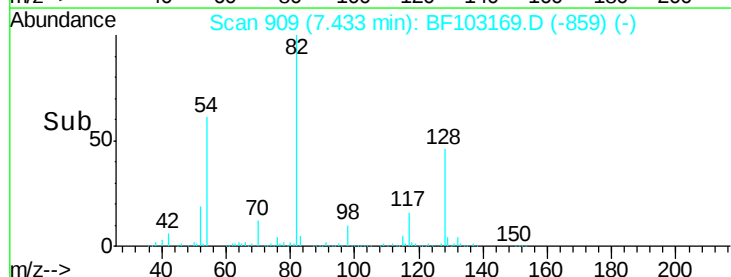
54 60.8 41.4 62.2

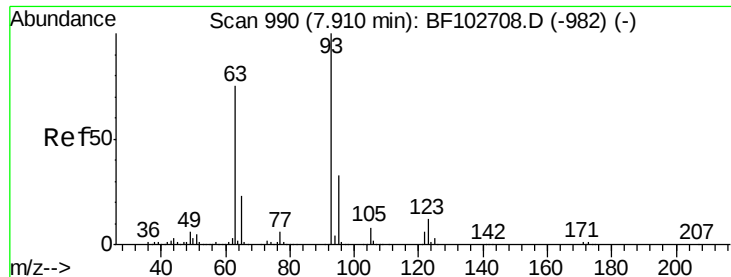


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

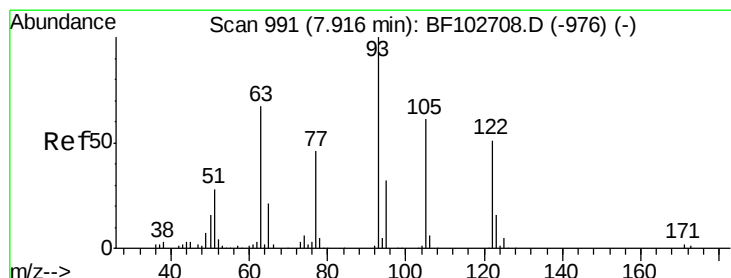
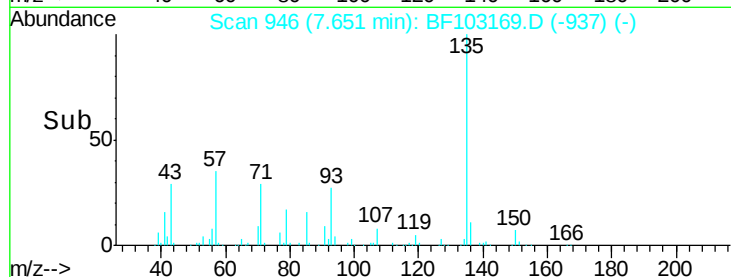
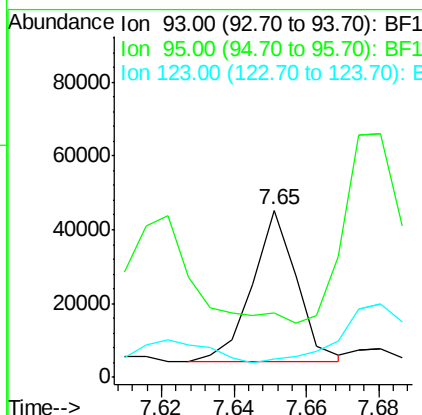
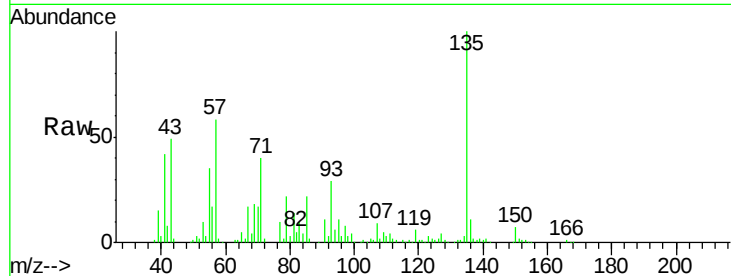




#28
bis(2-Chloroethoxy)methane
Concen: 2.721 ng
RT: 7.65 min Scan# 946
Delta R.T. -0.25 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

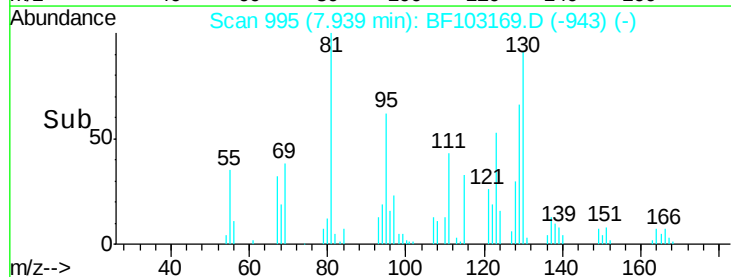
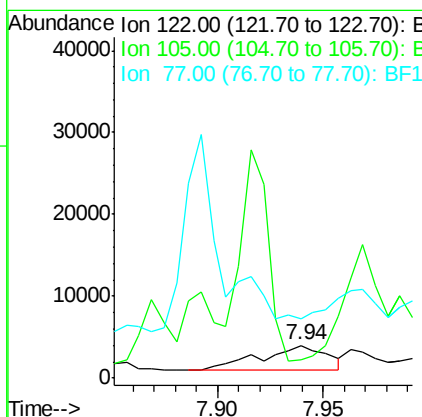
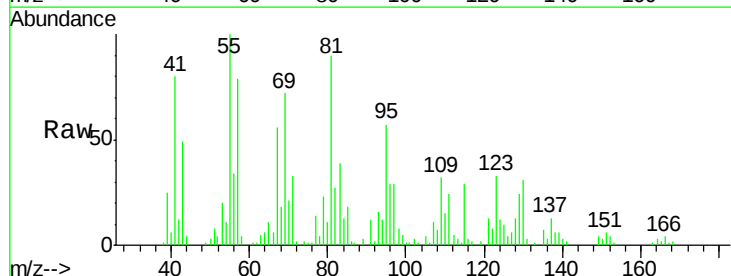
Instrument :
BNA_F
ClientSampleId :
RO-72-11931

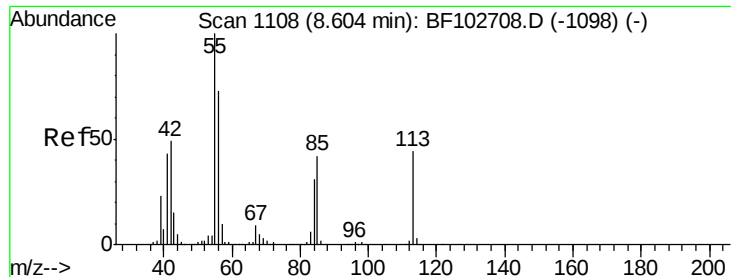
Tot Ion: 93 Resp: 34515
Ion Ratio Lower Upper
93 100
95 38.6 26.3 39.5
123 10.6 9.8 14.6



#32
Benzoic acid
Concen: 7.793 ng
RT: 7.94 min Scan# 995
Delta R.T. 0.01 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

Tgt Ion:122 Resp: 6611
Ion Ratio Lower Upper
122 100
105 55.7 101.1 141.1#
77 184.9 70.7 110.7#





#35

Caprolactam

Concen: 2.367 ng

RT: 8.60 min Scan# 1108

Delta R.T. -0.00 min

Lab File: BF103169.D

Acq: 22 Feb 2018 18:22

Instrument :

BNA_F

ClientSampleId :

RO-72-11931

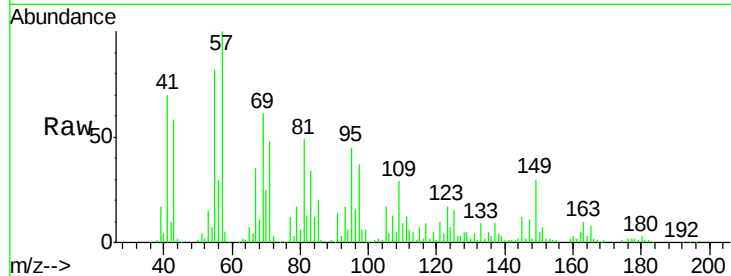
Tot Ion:113 Resp: 6913

Ion Ratio Lower Upper

113 100

55 1499.3 163.3 203.3#

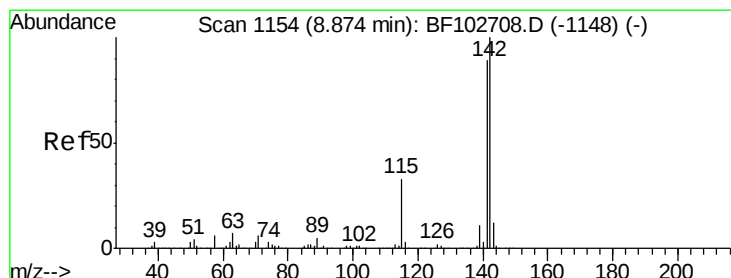
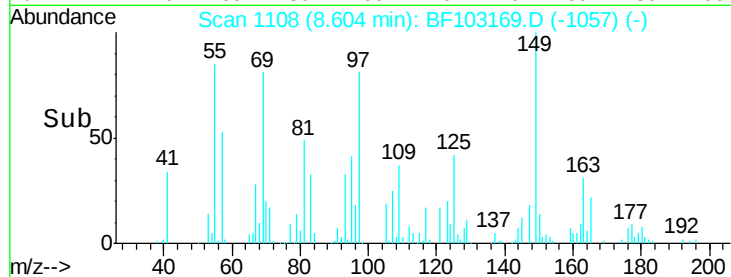
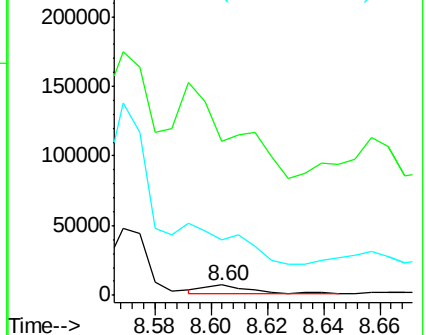
56 541.0 115.7 155.7#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF1

Ion 56.00 (55.70 to 56.70): BF1



#37

2-Methylnaphthalene

Concen: 14.377 ng

RT: 8.97 min Scan# 1170

Delta R.T. 0.10 min

Lab File: BF103169.D

Acq: 22 Feb 2018 18:22

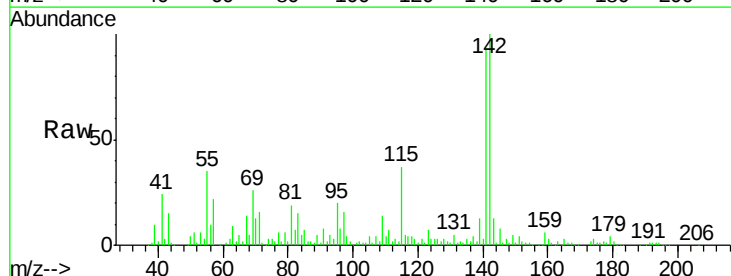
Tgt Ion:142 Resp: 284587

Ion Ratio Lower Upper

142 100

141 92.7 70.8 106.2

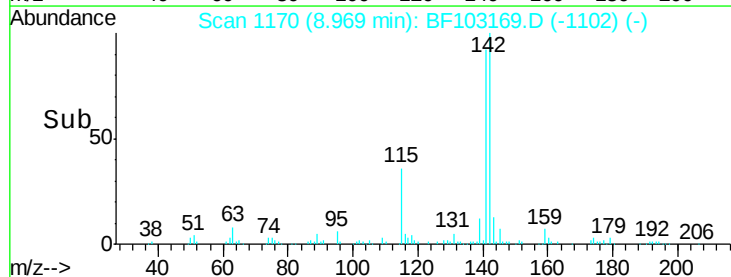
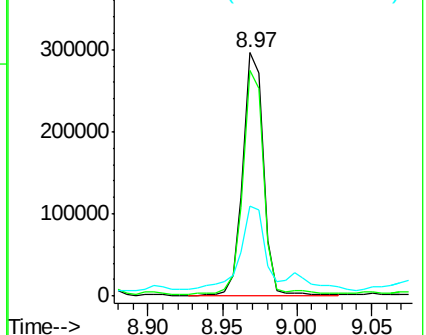
115 37.0 26.1 39.1

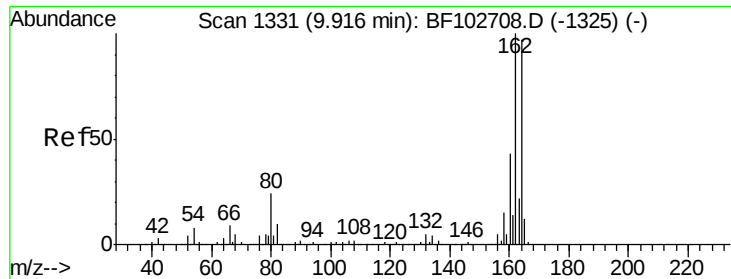


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

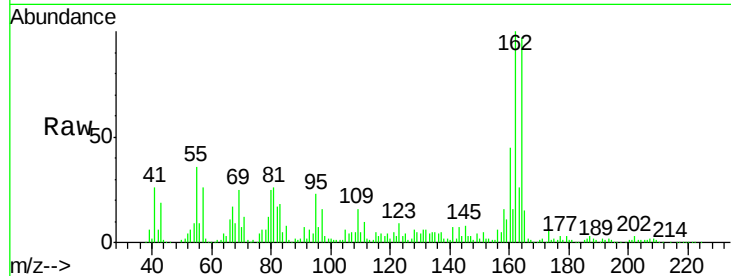




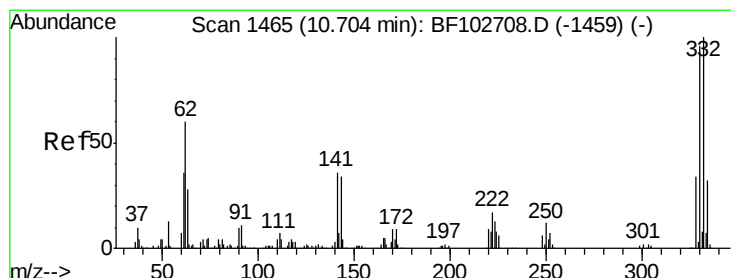
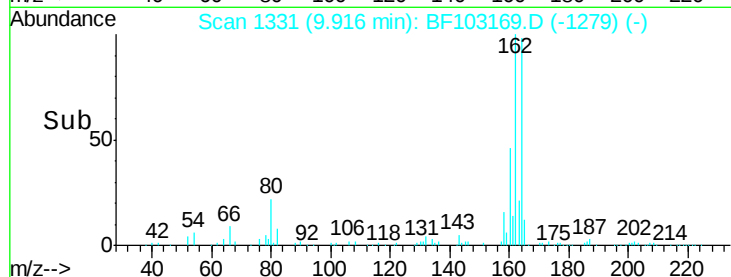
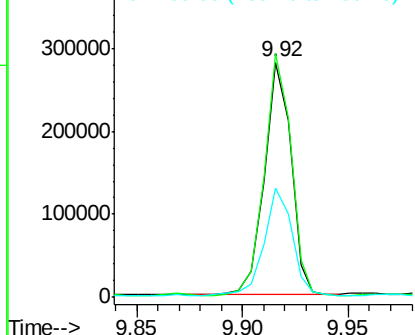
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. 0.01 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

Instrument :
BNA_F
ClientSampleId :
RO-72-11931

Tot Ion:164 Resp: 248364
Ion Ratio Lower Upper
164 100
162 103.5 86.1 129.1
160 46.5 38.3 57.5

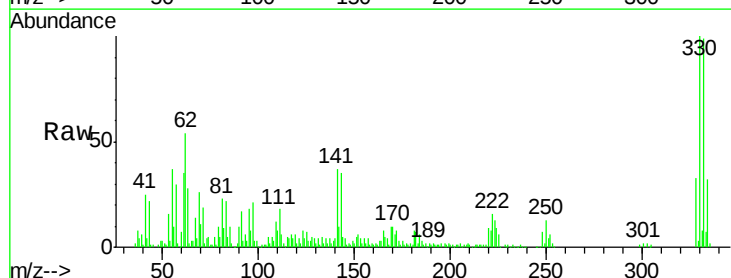


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

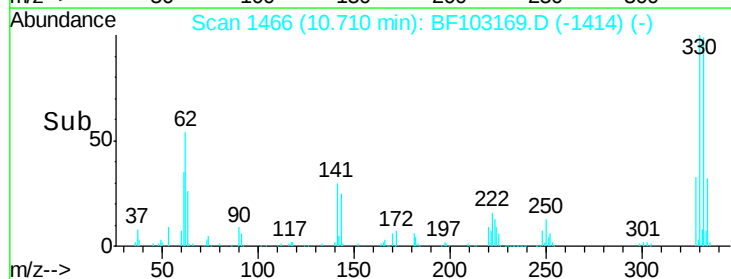
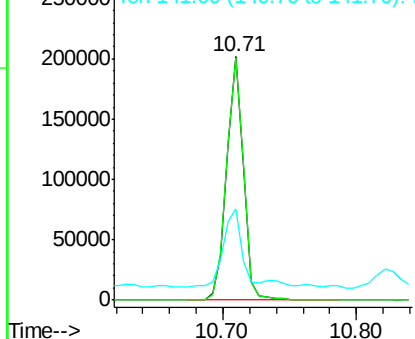


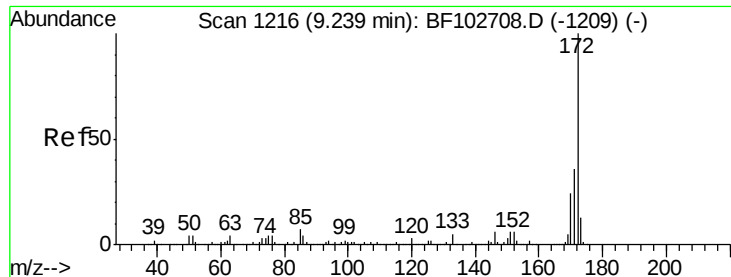
#41
2,4,6-Tribromophenol
Concen: 85.829 ng
RT: 10.71 min Scan# 1466
Delta R.T. 0.01 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

Tgt Ion:330 Resp: 180435
Ion Ratio Lower Upper
330 100
332 100.6 77.0 115.6
141 35.2 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

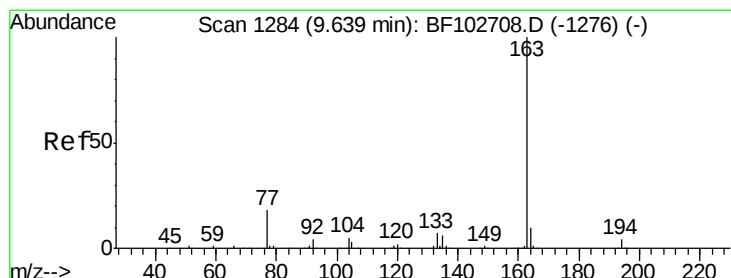
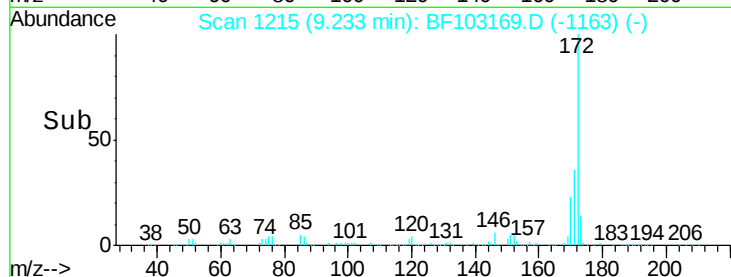
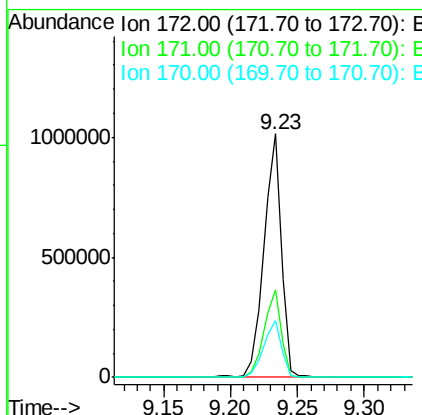
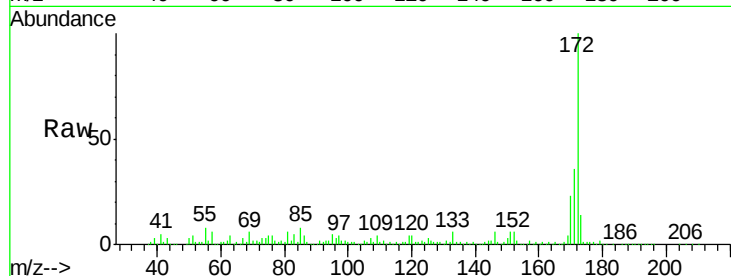




#44
2-Fluorobiphenyl
Concen: 58.496 ng
RT: 9.23 min Scan# 1215
Delta R.T. 0.01 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

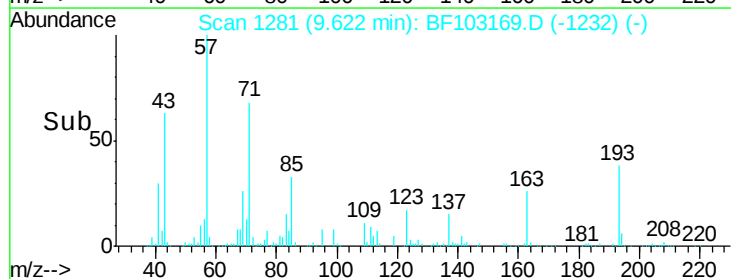
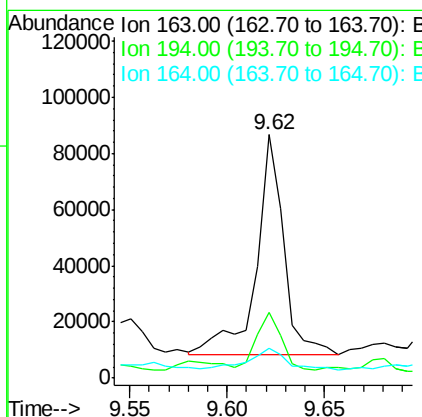
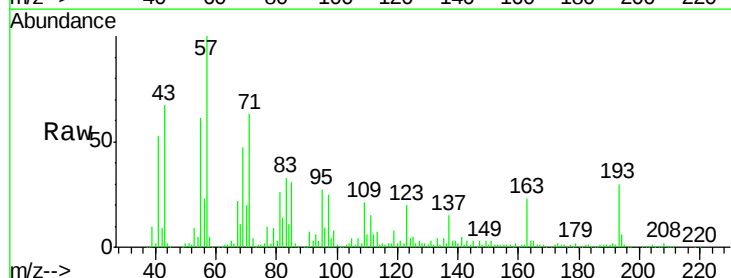
Instrument :
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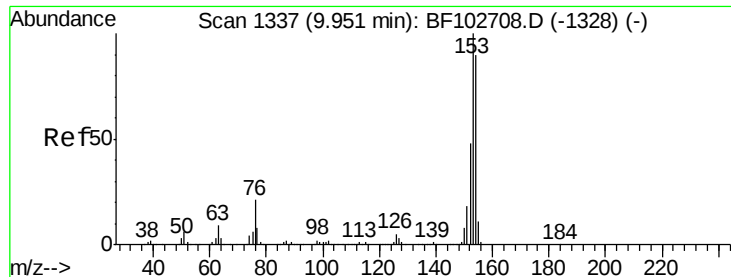
Tot Ion:172 Resp: 910315
Ion Ratio Lower Upper
172 100
171 36.0 29.7 44.5
170 23.5 19.6 29.4



#49
Dimethylphthalate
Concen: 3.869 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

Tgt Ion:163 Resp: 77093
Ion Ratio Lower Upper
163 100
194 26.9 2.7 4.1#
164 12.1 8.2 12.2





#51

Acenaphthene

Concen: 8.371 ng

RT: 9.95 min Scan# 1337

Delta R.T. 0.01 min

Lab File: BF103169.D

Acq: 22 Feb 2018 18:22

Instrument :

BNA_F

ClientSampleId :

RO-72-11931

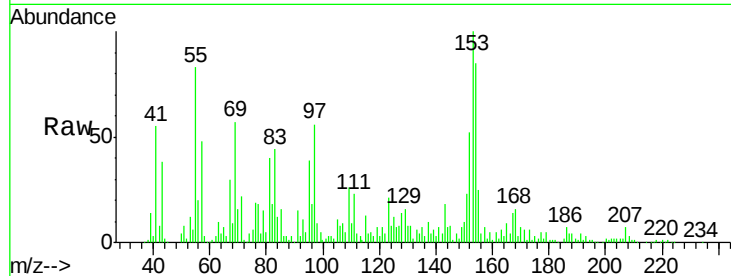
Tot Ion:154 Resp: 123651

Ion Ratio Lower Upper

154 100

153 117.1 91.2 136.8

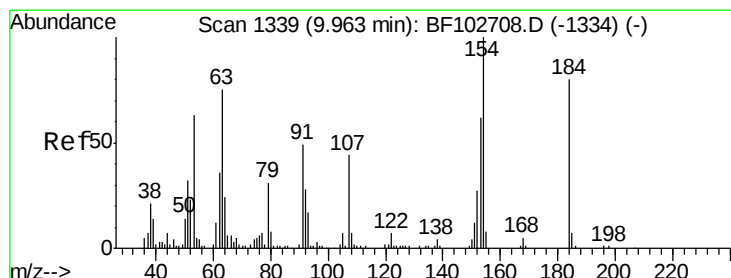
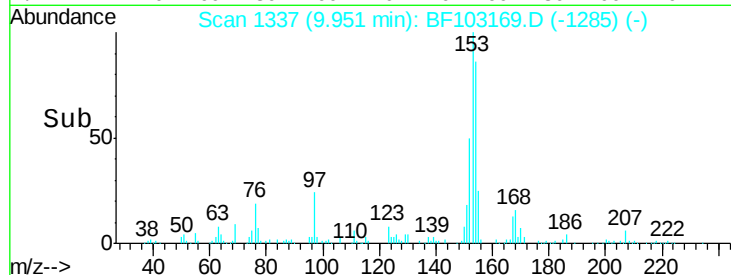
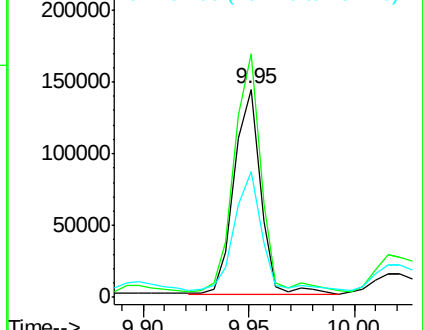
152 60.6 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#53

2,4-Dinitrophenol

Concen: 10.061 ng

RT: 9.97 min Scan# 1341

Delta R.T. -0.01 min

Lab File: BF103169.D

Acq: 22 Feb 2018 18:22

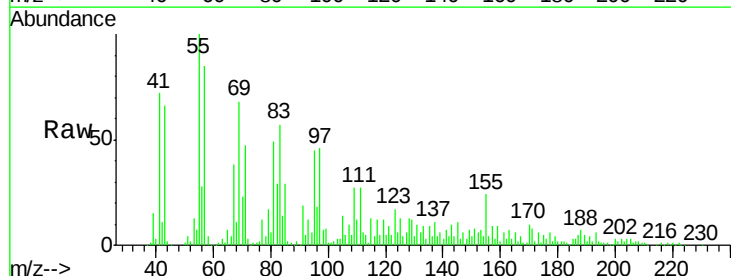
Tgt Ion:184 Resp: 755

Ion Ratio Lower Upper

184 100

63 716.6 54.2 81.2#

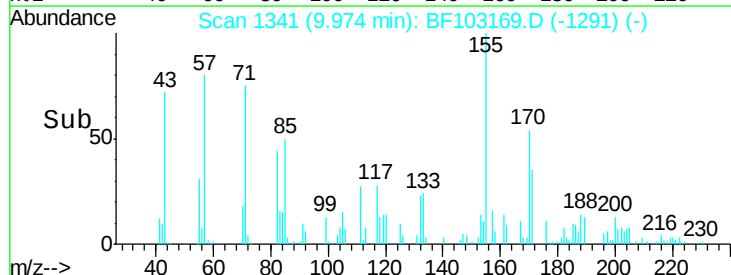
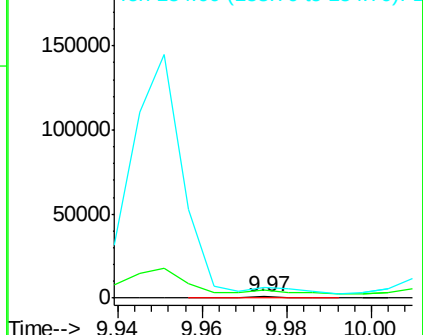
154 963.2 184.0 276.0#

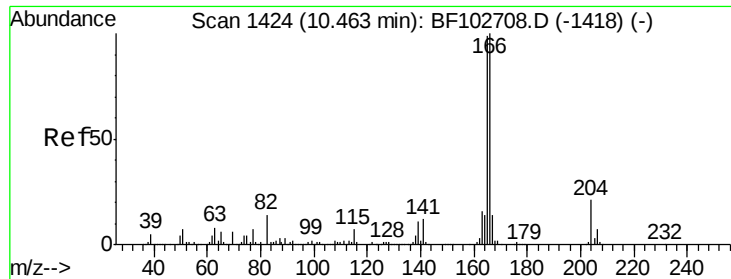


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E





#57

Fluorene

Concen: 5.418 ng

RT: 10.46 min Scan# 1424

Delta R.T. 0.00 min

Lab File: BF103169.D

Acq: 22 Feb 2018 18:22

Instrument :

BNA_F

ClientSampleId :

RO-72-11931

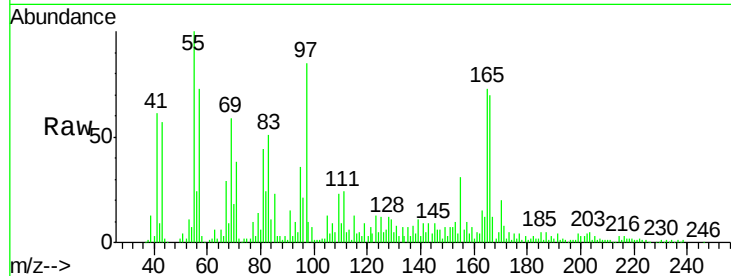
Tot Ion:166 Resp: 93588

Ion Ratio Lower Upper

166 100

165 105.0 79.8 119.8

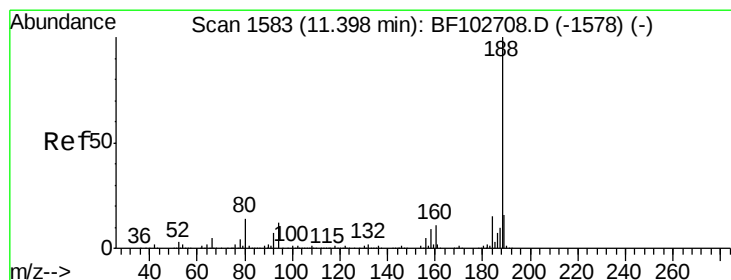
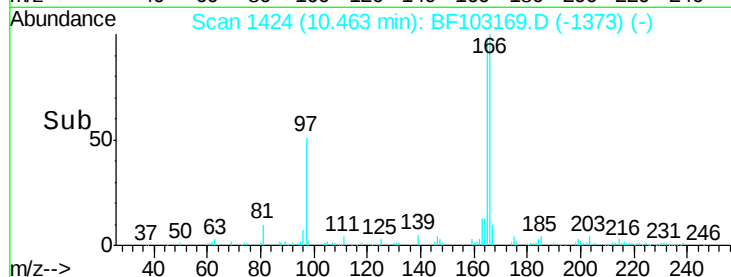
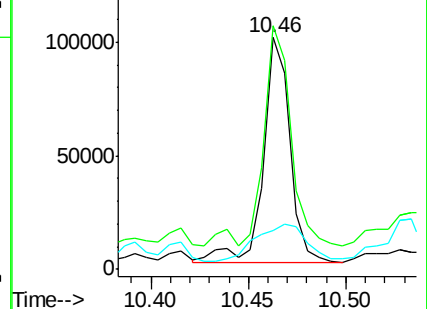
167 16.9 10.6 16.0#



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: 20.000 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.00 min

Lab File: BF103169.D

Acq: 22 Feb 2018 18:22

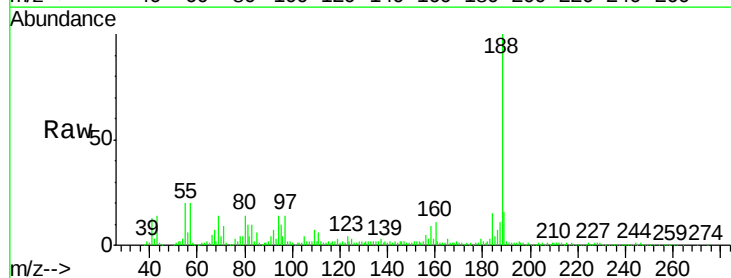
Tgt Ion:188 Resp: 380082

Ion Ratio Lower Upper

188 100

94 13.5 8.5 12.7#

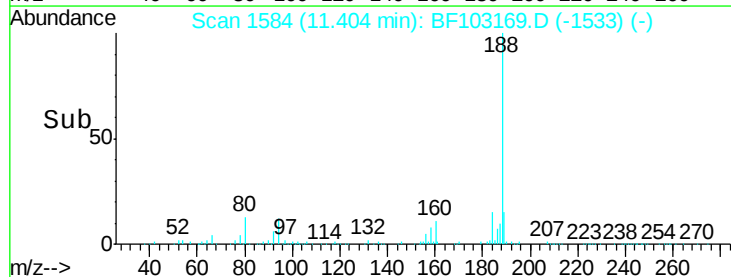
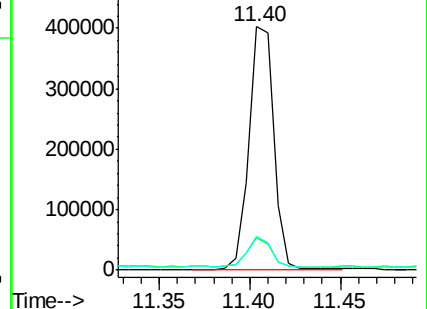
80 14.1 9.2 13.8#

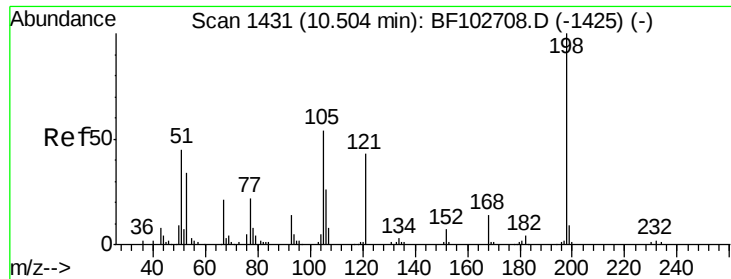


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

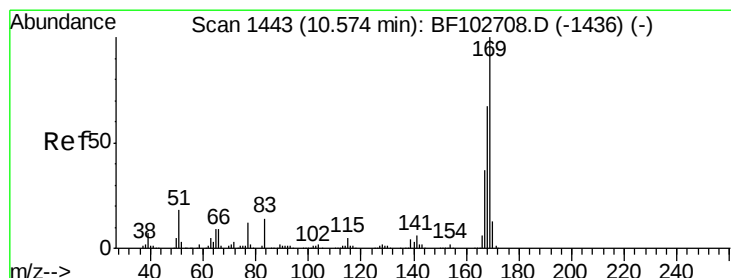
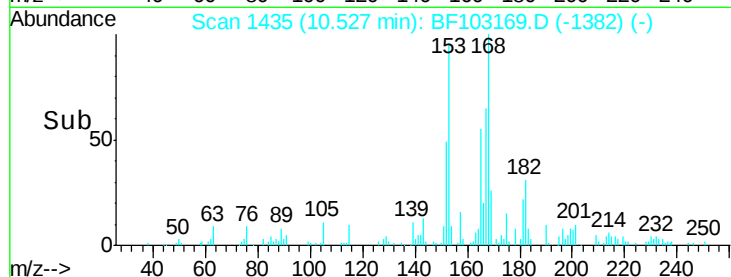
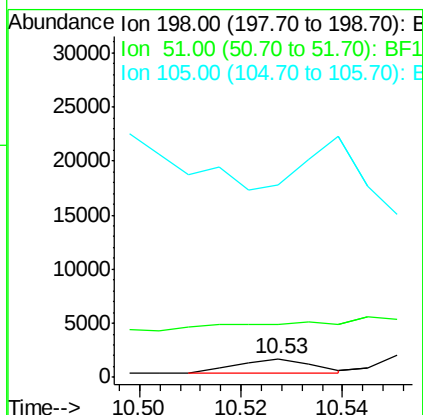
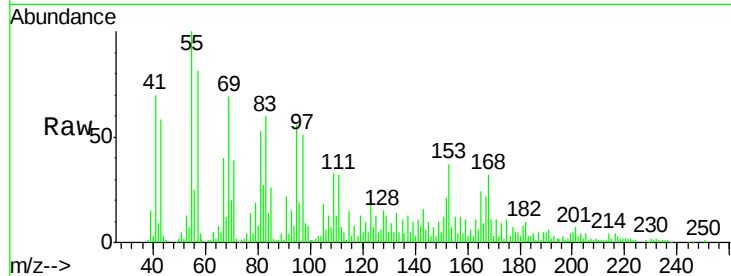




#64
4,6-Dinitro-2-methylphenol
Concen: 5.457 ng
RT: 10.53 min Scan# 1435
Delta R.T. 0.01 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

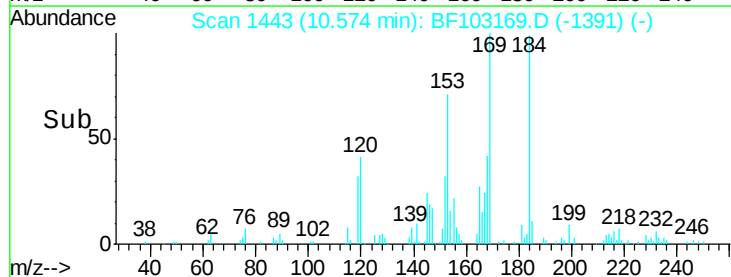
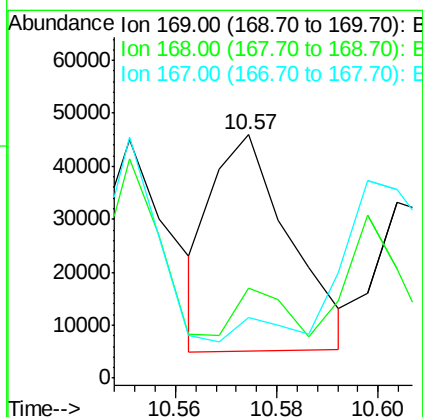
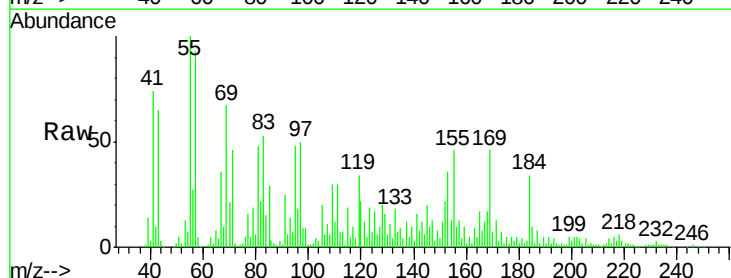
Instrument :
BNA_F
ClientSampleId :
RO-72-11931

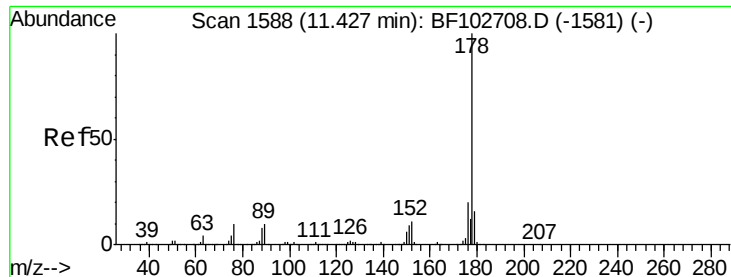
Tot Ion:198 Resp: 1318
Ion Ratio Lower Upper
198 100
51 282.7 37.7 77.7#
105 1017.1 36.3 76.3#



#65
n-Nitrosodiphenylamine
Concen: 3.290 ng
RT: 10.57 min Scan# 1443
Delta R.T. 0.01 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

Tgt Ion:169 Resp: 43535
Ion Ratio Lower Upper
169 100
168 37.0 54.4 81.6#
167 24.9 29.8 44.6#





#70

Phenanthrene

Concen: 12.407 ng

RT: 11.43 min Scan# 1589

Delta R.T. 0.01 min

Lab File: BF103169.D

Acq: 22 Feb 2018 18:22

Instrument :

BNA_F

ClientSampleId :

RO-72-11931

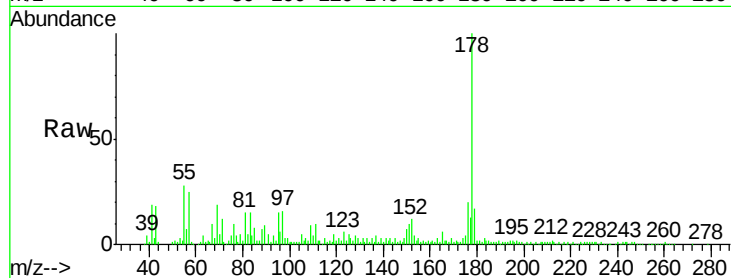
Tot Ion:178 Resp: 259528

Ion Ratio Lower Upper

178 100

176 19.6 15.8 23.8

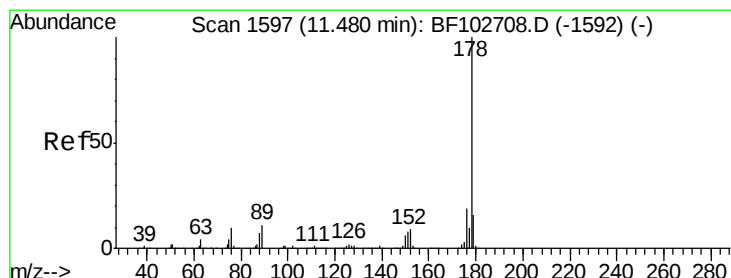
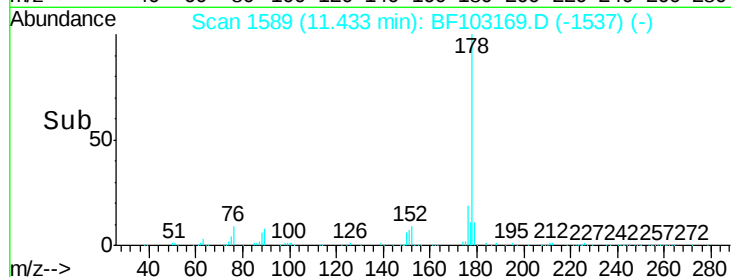
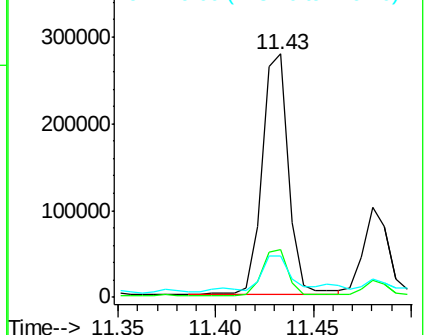
179 17.0 13.0 19.6



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: 12.100 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.05 min

Lab File: BF103169.D

Acq: 22 Feb 2018 18:22

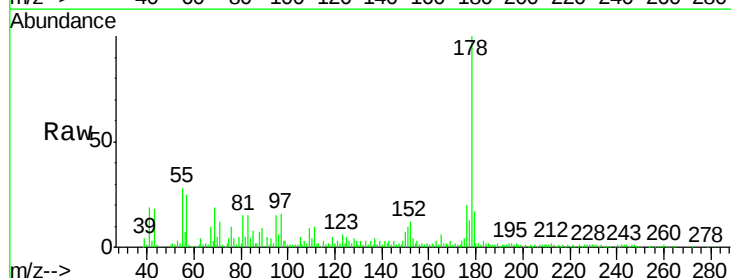
Tgt Ion:178 Resp: 259528

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.2

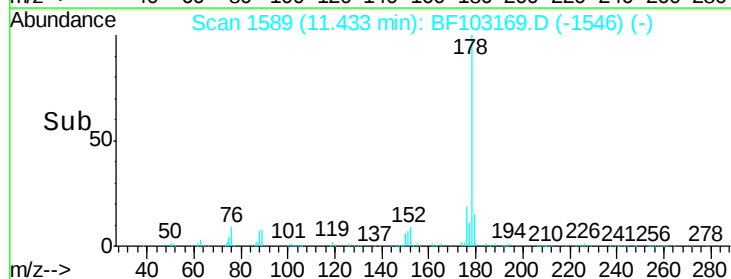
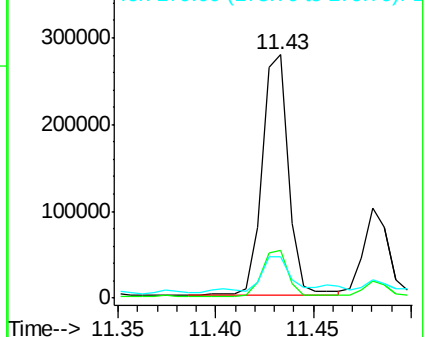
179 17.0 12.6 19.0

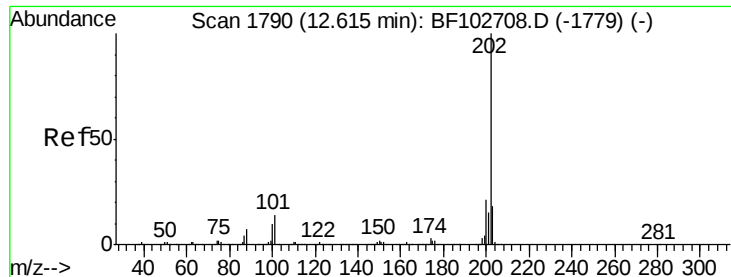


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 4.607 ng

RT: 12.62 min Scan# 1791

Delta R.T. 0.01 min

Lab File: BF103169.D

Acq: 22 Feb 2018 18:22

Instrument :

BNA_F

ClientSampleId :

RO-72-11931

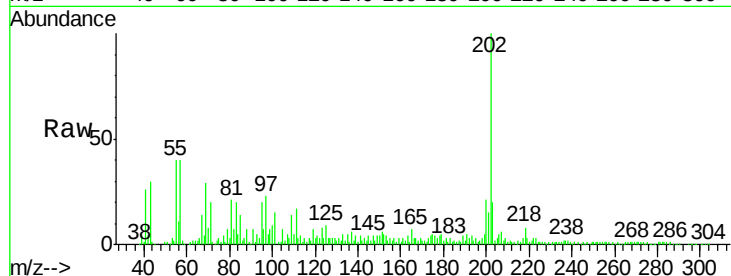
Tot Ion:202 Resp: 96839

Ion Ratio Lower Upper

202 100

101 15.0 0.0 34.1

203 19.7 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

12.62

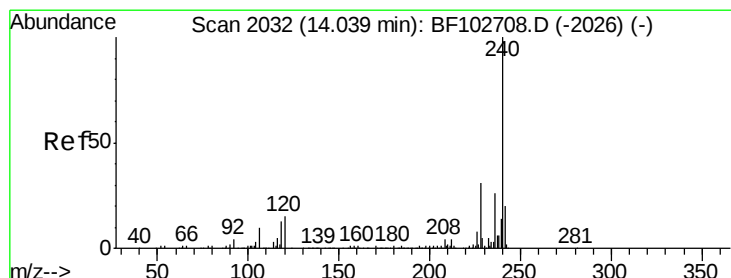
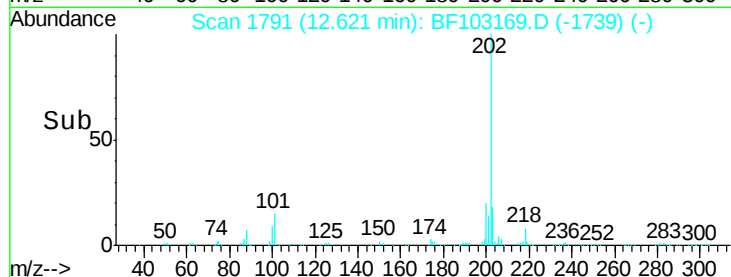
100000

50000

0

12.60 12.65

Time-->



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.00 min

Lab File: BF103169.D

Acq: 22 Feb 2018 18:22

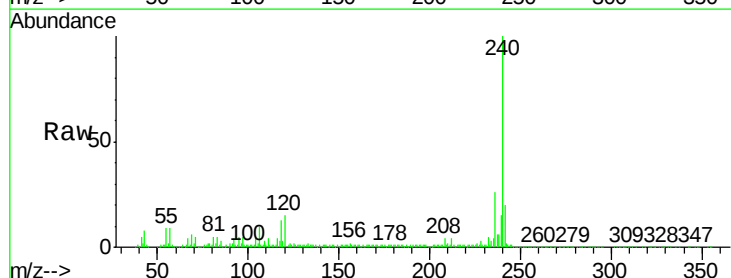
Tgt Ion:240 Resp: 275577

Ion Ratio Lower Upper

240 100

120 14.7 9.5 14.3#

236 26.2 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

14.05

400000

300000

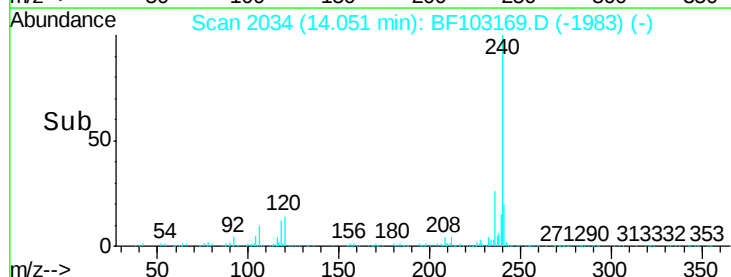
200000

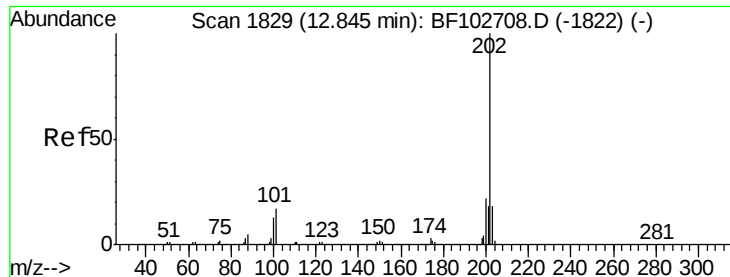
100000

0

14.00 14.05 14.10

Time-->

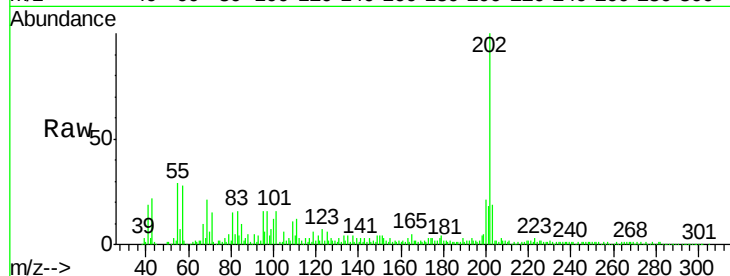




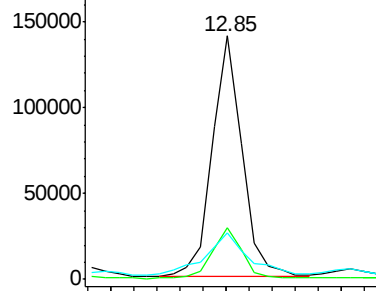
#77
Pvrene
Concen: 5.889 ng
RT: 12.85 min Scan# 1830
Delta R.T. -0.00 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

Instrument :
BNA_F
ClientSampleId :
RO-72-11931

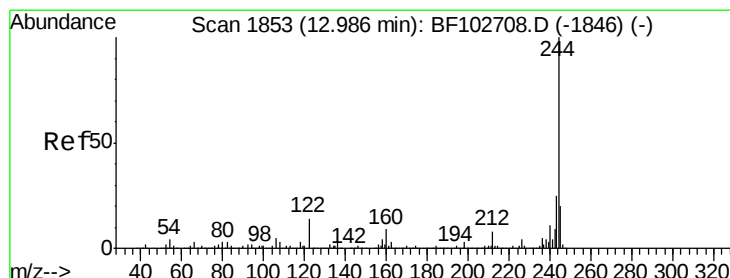
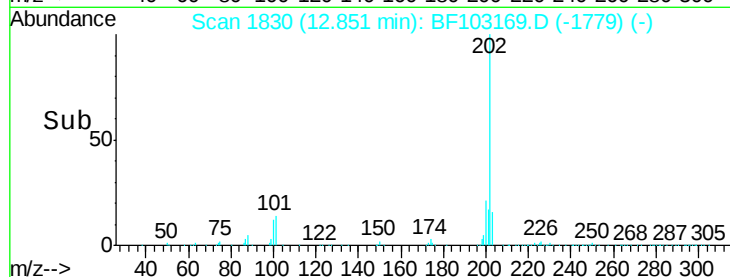
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.4	26.2
203	19.1	14.3	21.5



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

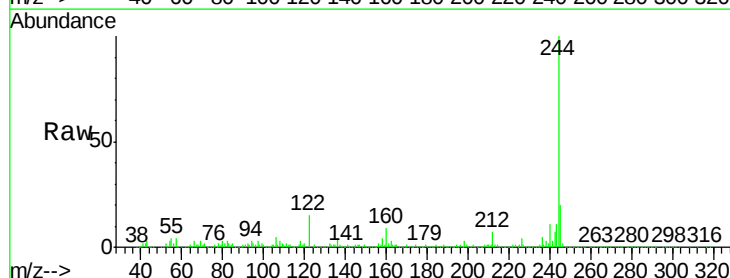


Time-->

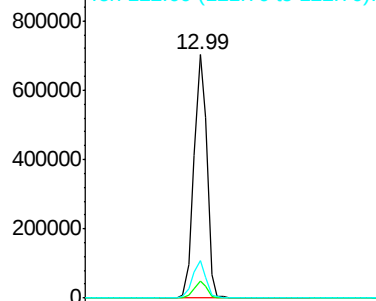


#78
Terphenyl-d14
Concen: 56.326 ng
RT: 12.99 min Scan# 1853
Delta R.T. -0.00 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

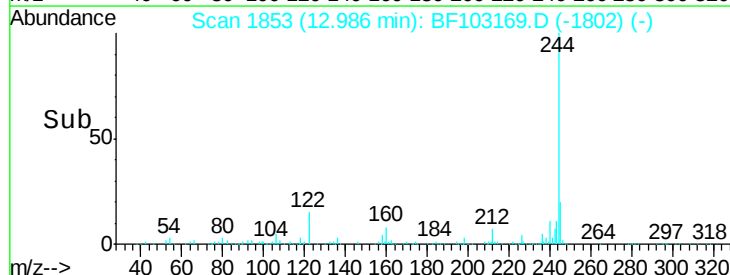
Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.4	8.0
122	15.2	11.0	16.4

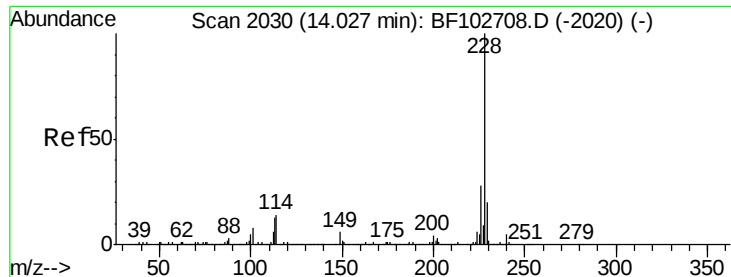


Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



Time-->

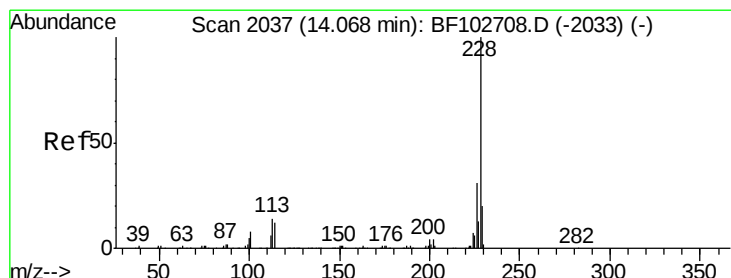
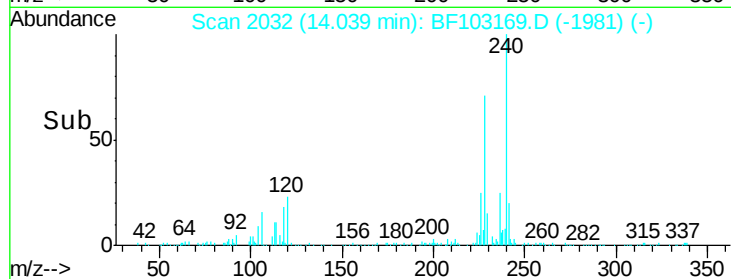
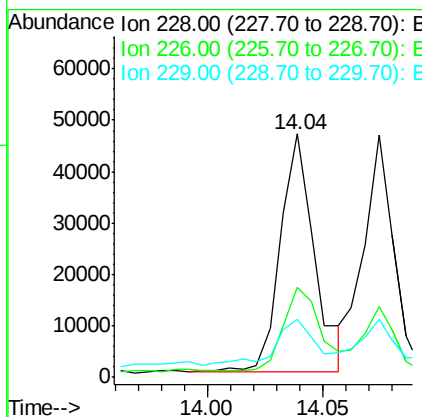
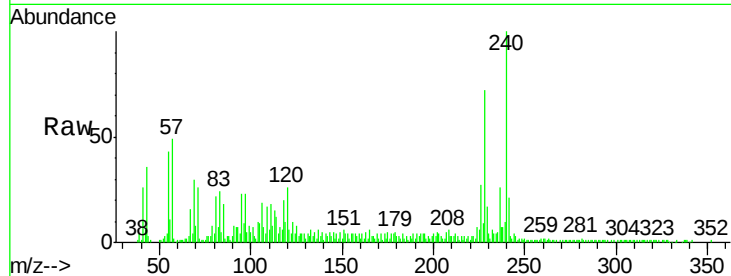




#80
Benzo(a)anthracene
Concen: 2.621 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.00 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

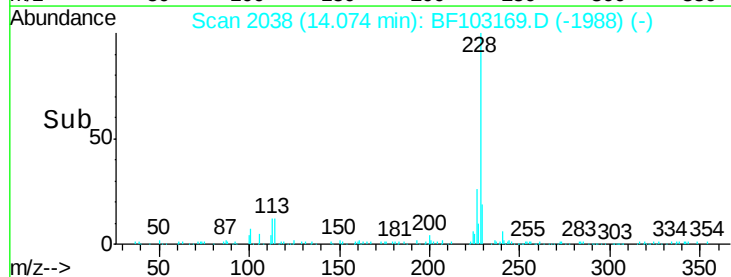
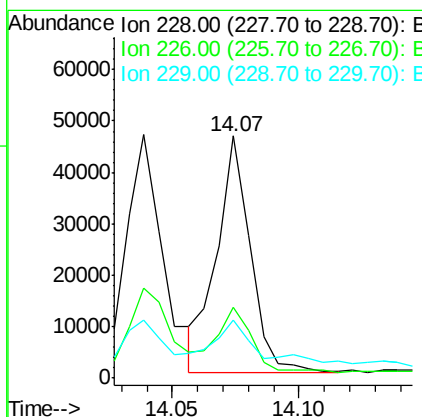
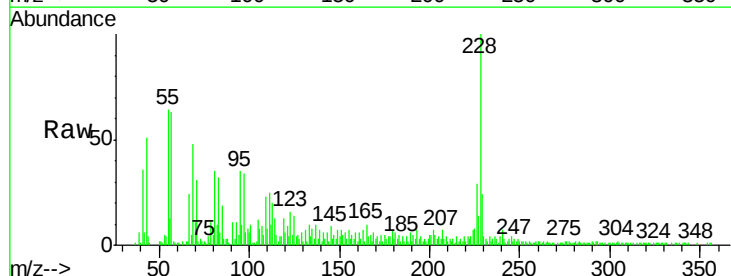
Instrument :
BNA_F
ClientSampleId :
RO-72-11931

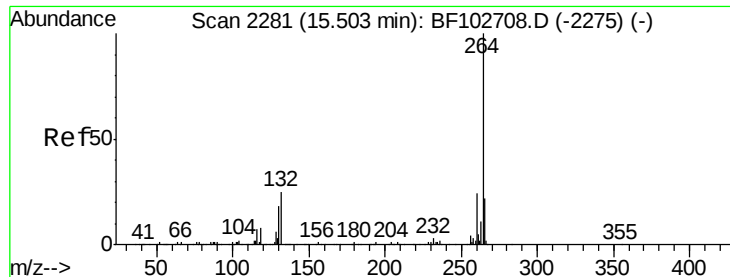
Tot Ion:228 Resp: 46869
Ion Ratio Lower Upper
228 100
226 36.8 22.6 33.8#
229 24.1 15.8 23.6#



#82
Chrysene
Concen: 2.465 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.01 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

Tgt Ion:228 Resp: 42801
Ion Ratio Lower Upper
228 100
226 29.3 25.0 37.6
229 24.2 16.2 24.4

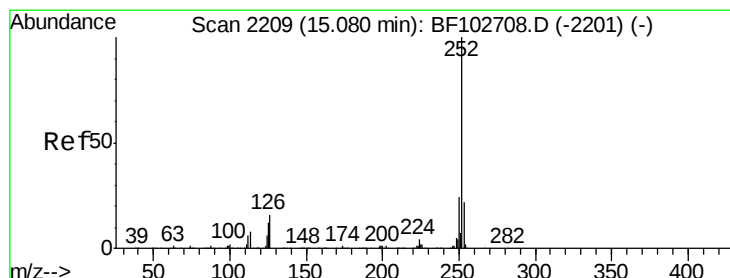
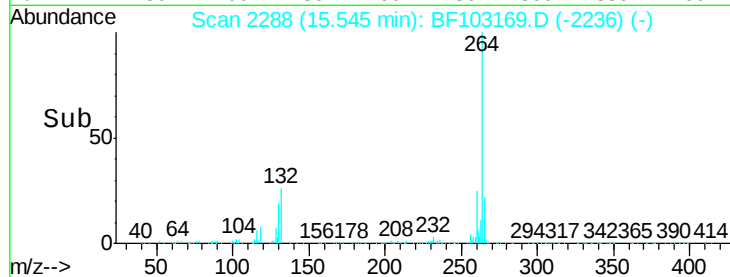
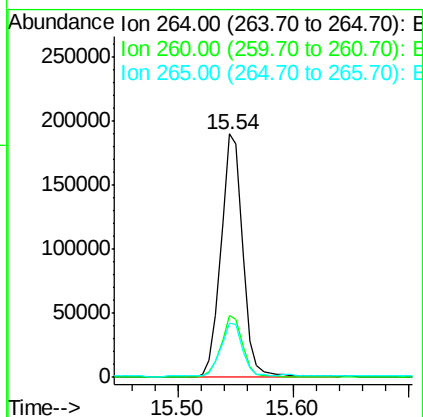
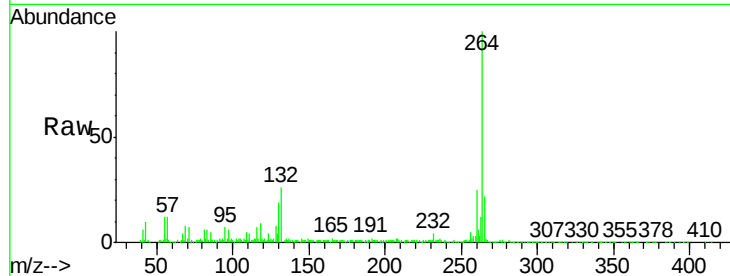




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.54 min Scan# 2288
Delta R.T. 0.01 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

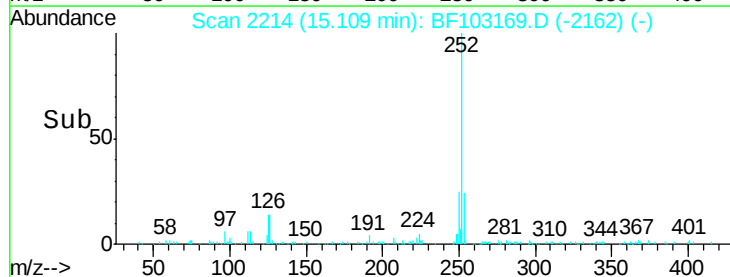
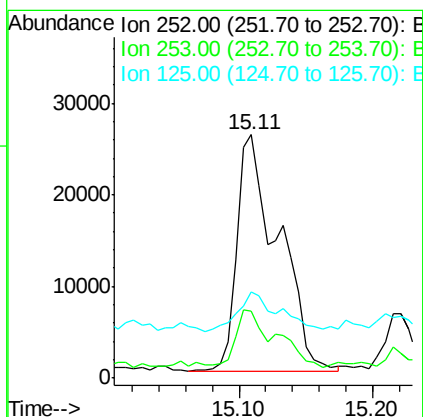
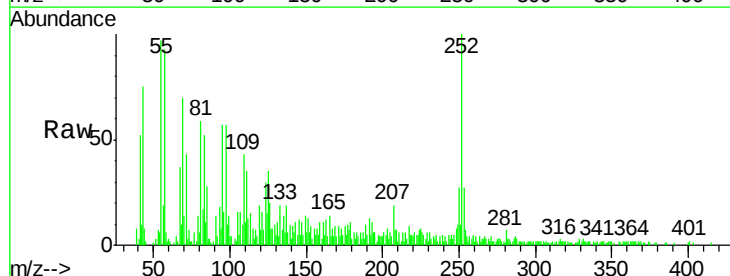
Instrument :
BNA_F
ClientSampleId :
RO-72-11931

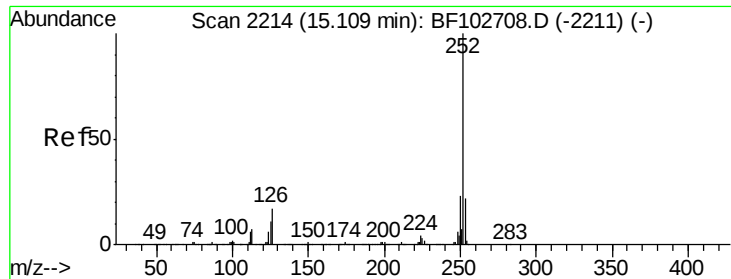
Tot Ion:264 Resp: 248777
Ion Ratio Lower Upper
264 100
260 25.2 19.2 28.8
265 22.0 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 3.390 ng
RT: 15.11 min Scan# 2214
Delta R.T. 0.01 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

Tgt Ion:252 Resp: 55455
Ion Ratio Lower Upper
252 100
253 27.4 17.0 25.6#
125 35.4 9.0 13.6#

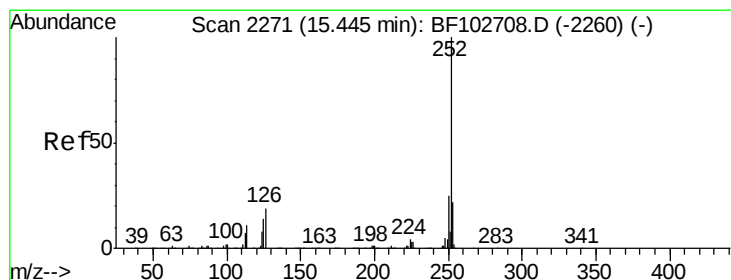
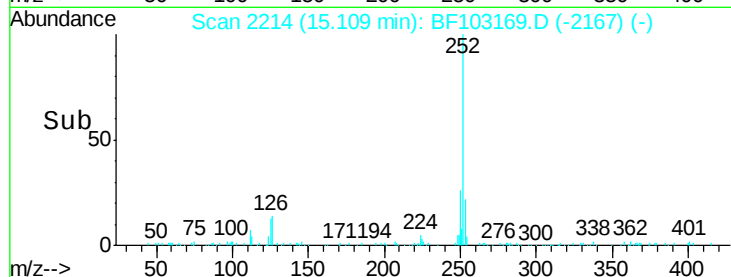
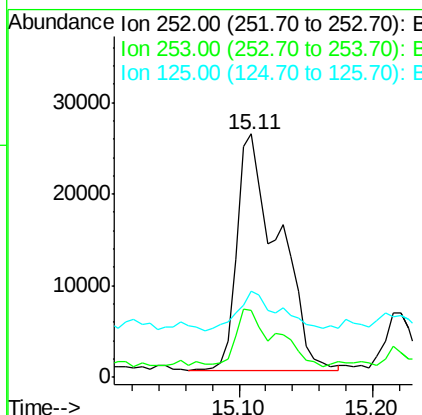
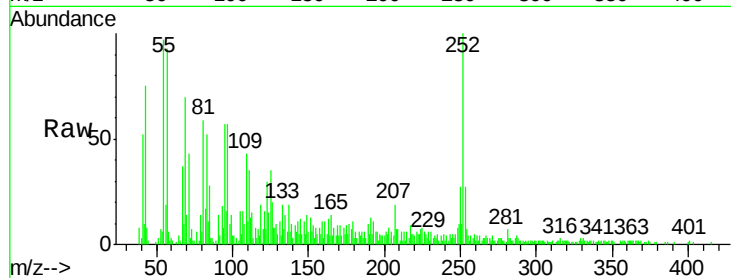




#88
Benzo(k)fluoranthene
Concen: 3.600 ng
RT: 15.11 min Scan# 2214
Delta R.T. -0.02 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

Instrument :
BNA_F
ClientSampleId :
RO-72-11931

Tot Ion:252 Resp: 55455
Ion Ratio Lower Upper
252 100
253 27.4 17.9 26.9#
125 35.4 10.2 15.2#



#89
Benzo(a)pyrene
Concen: 2.264 ng
RT: 15.48 min Scan# 2277
Delta R.T. 0.01 min
Lab File: BF103169.D
Acq: 22 Feb 2018 18:22

Tgt Ion:252 Resp: 33063
Ion Ratio Lower Upper
252 100
253 24.1 17.1 25.7
125 34.9 9.8 14.6#

