

Data Path : U:\HPCHEM1\BNA F\DATA\BF010418\
 Data File : BF101911.D
 Acq On : 5 Jan 2018 3:20
 Operator : SJ/JU
 Sample : J1004-14
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 05 05:08:34 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 04 14:22:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	110861	20.00	ng	0.00
21) Naphthalene-d8	8.05	136	374903	20.00	ng	0.00
38) Acenaphthene-d10	9.80	164	133125	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	255731	20.00	ng	0.00
75) Chrysene-d12	13.96	240	275413	20.00	ng	0.00
86) Perylene-d12	15.43	264	189607	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.40	112	835053	112.20	ng	0.00
7) Phenol-d6	6.42	99	930266	100.43	ng	0.00
23) Nitrobenzene-d5	7.35	82	562961	83.59	ng	0.00
41) 2,4,6-Tribromophenol	10.61	330	116743	91.01	ng	0.00
44) 2-Fluorobiphenyl	9.12	172	630089	73.42	ng	0.00
78) Terphenyl-d14	12.89	244	607955	53.22	ng	0.00

Target Compounds

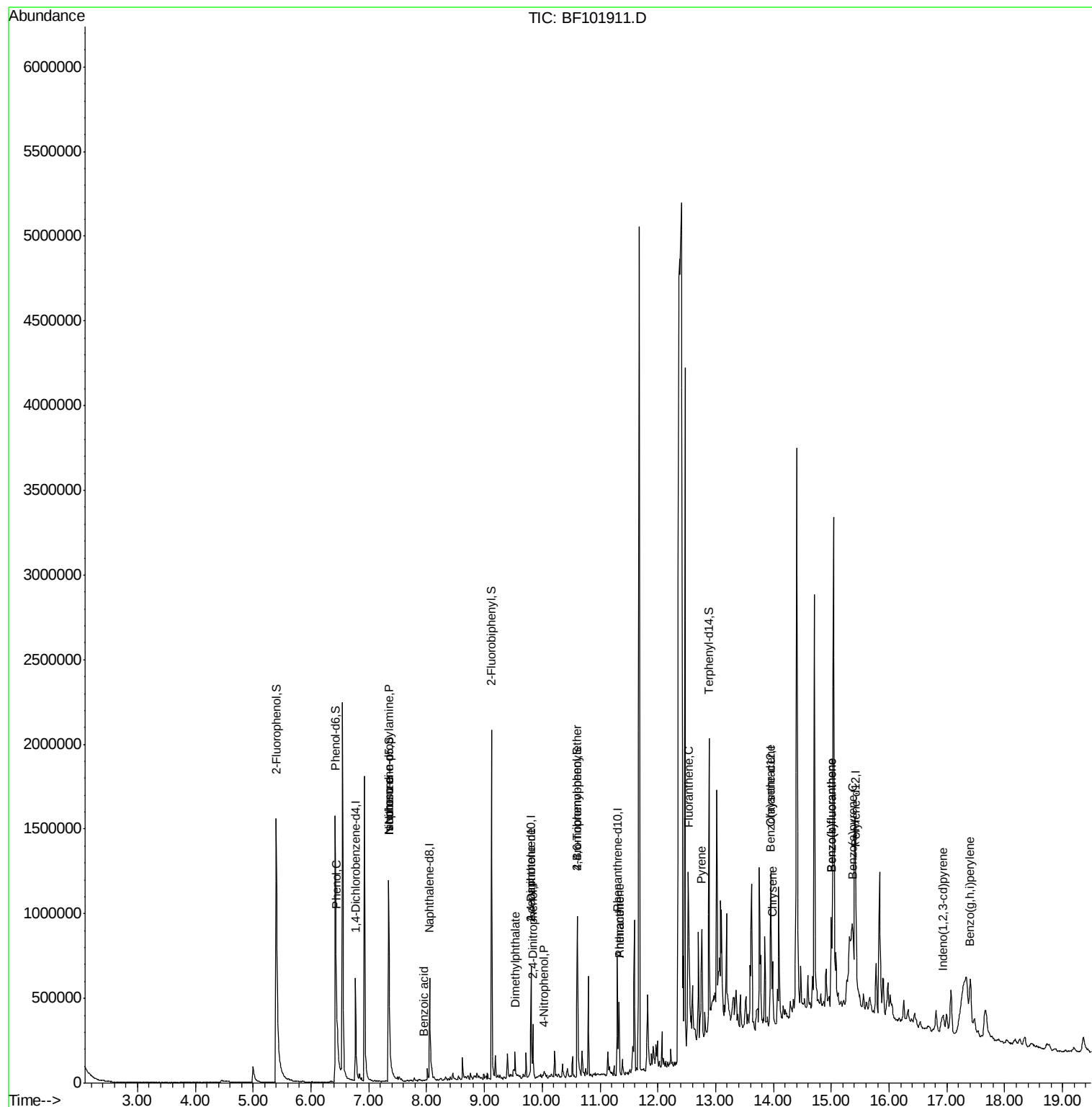
						Qvalue
10) Phenol	6.44	94	40266	3.814	ng	# 34
19) n-Nitroso-di-n-propylamine	7.35	70	77924	12.811	ng	# 82
25) Isophorone	7.35	82	562961	41.668	ng	# 64
32) Benzoic acid	7.96	122	168	7.999	ng	# 24
49) Dimethylphthalate	9.53	163	60483	5.648	ng	# 97
53) 2,4-Dinitrophenol	9.83	184	343	10.714	ng	# 1
55) 4-Nitrophenol	10.03	139	2615	2.210	ng	# 39
56) 2,4-Dinitrotoluene	9.80	165	16916	6.899	ng	# 25
66) 4-Bromophenyl-phenylether	10.60	248	8149	2.836	ng	# 1
70) Phenanthrene	11.33	178	161739	11.373	ng	# 99
71) Anthracene	11.33	178	161739	11.134	ng	# 99
74) Fluoranthene	12.53	202	295626	19.804	ng	# 97
77) Pvrene	12.76	202	287295	13.899	ng	# 99
80) Benzo(a)anthracene	13.95	228	157511	8.661	ng	# 94
82) Chrysene	13.99	228	149347	8.698	ng	# 99
85) Indeno(1,2,3-cd)pyrene	16.93	276	44264	2.895	ng	# 93
87) Benzo(b)fluoranthene	15.00	252	170227	14.729	ng	# 94
88) Benzo(k)fluoranthene	15.00	252	170227	15.149	ng	# 96
89) Benzo(a)pvrene	15.37	252	84443	7.926	ng	# 93
91) Benzo(a,h,i)perylene	17.39	276	42950	4.742	ng	# 92

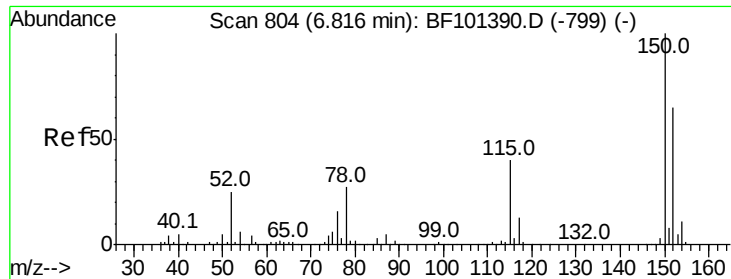
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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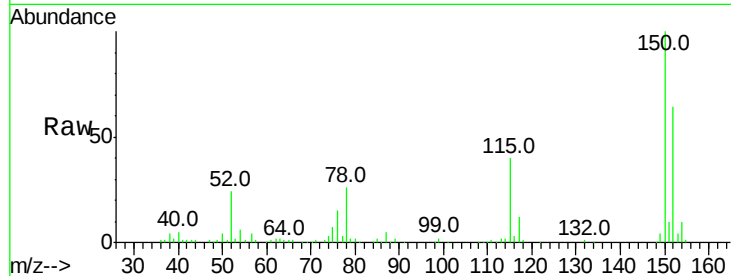


#1

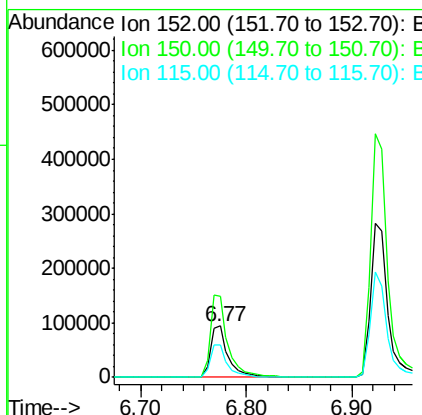
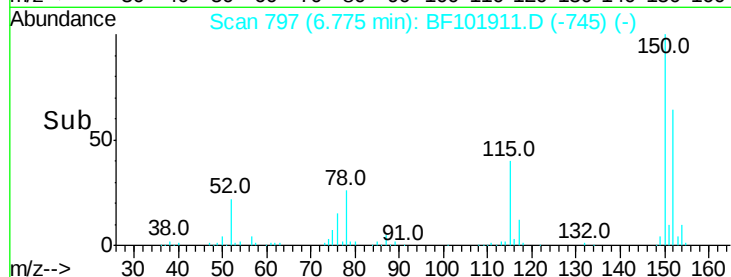
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.77 min Scan# 797
Delta R.T. 0.01 min
Lab File: BF101911.D
Acq: 5 Jan 2018 3:20

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 110861
Ion Ratio Lower Upper
152 100
150 157.2 124.6 186.8
115 62.2 50.1 75.1



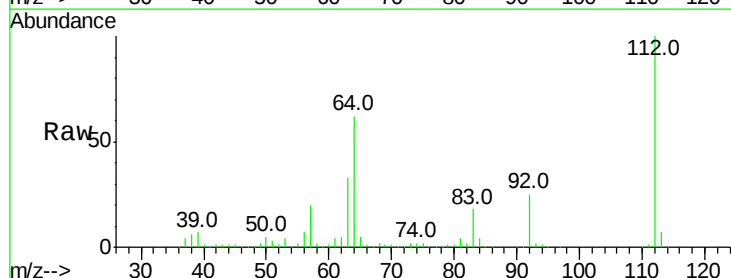
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



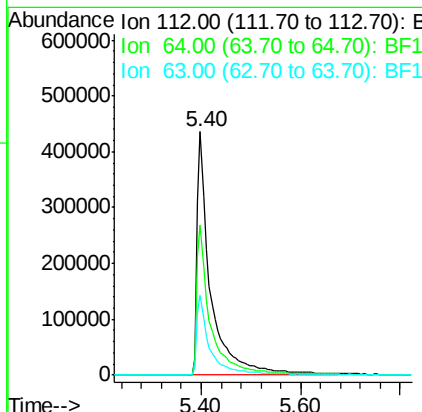
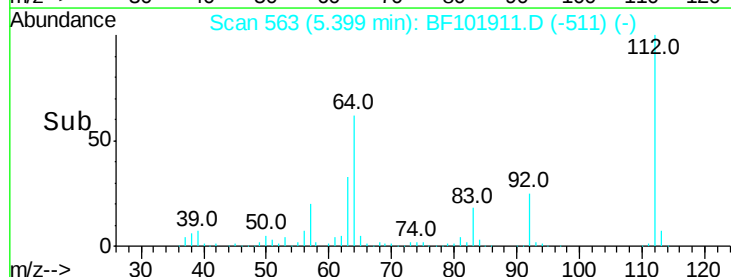
#5

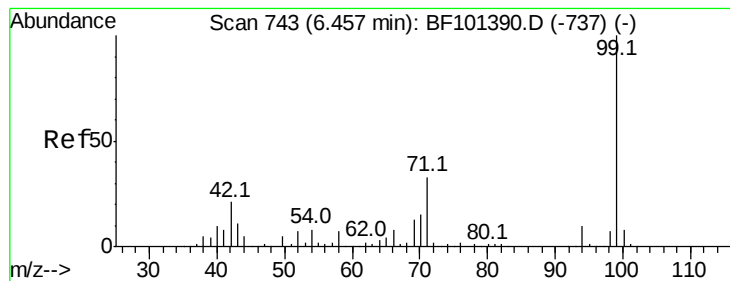
2-Fluorophenol
Concen: 112.202 ng
RT: 5.40 min Scan# 563
Delta R.T. 0.01 min
Lab File: BF101911.D
Acq: 5 Jan 2018 3:20

Tgt Ion:112 Resp: 835053
Ion Ratio Lower Upper
112 100
64 61.9 47.9 71.9
63 33.0 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: 100.435 ng

RT: 6.42 min Scan# 737

Delta R.T. 0.00 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

Instrument :

BNA_F

ClientSampleId :

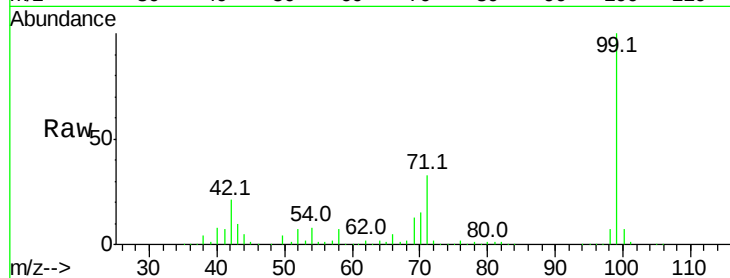
Tot Ion: 99 Resp: 930266

Ion Ratio Lower Upper

99 100

42 21.2 14.5 21.7

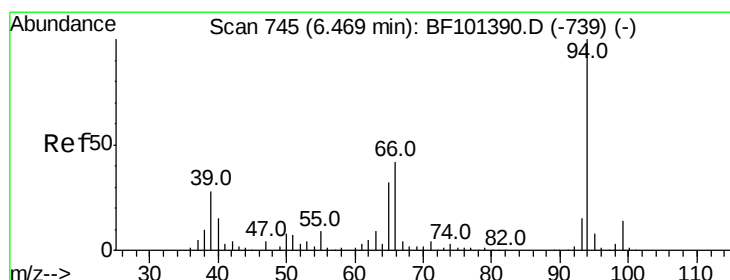
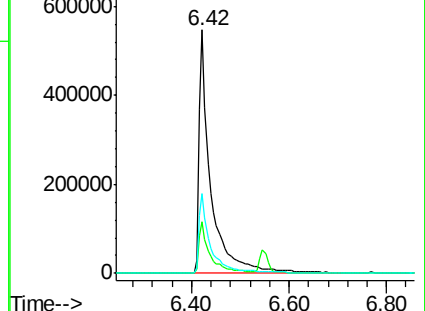
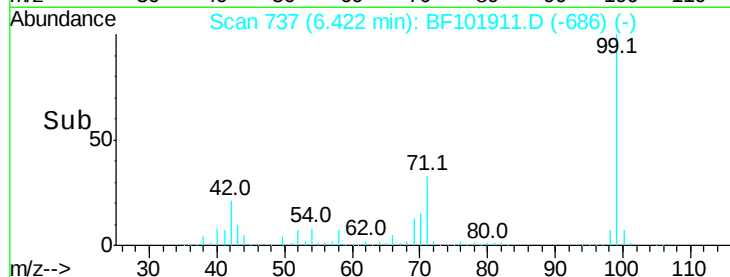
71 32.6 25.4 38.0



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



#10

Phenol

Concen: 3.814 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.01 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

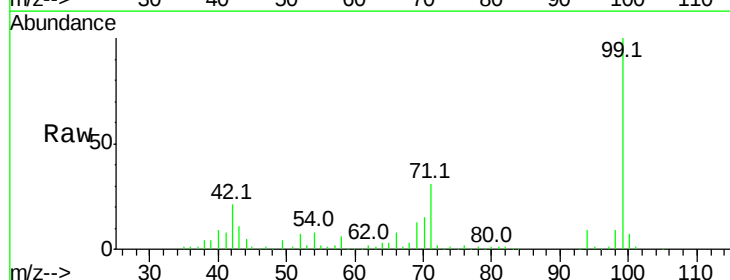
Tgt Ion: 94 Resp: 40266

Ion Ratio Lower Upper

94 100

65 40.6 7.9 47.9

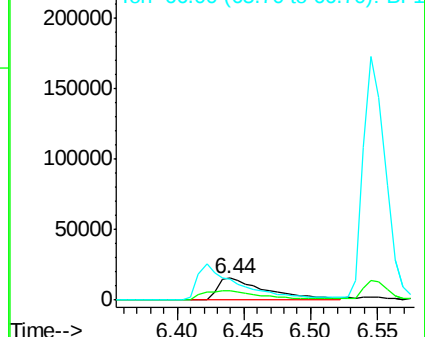
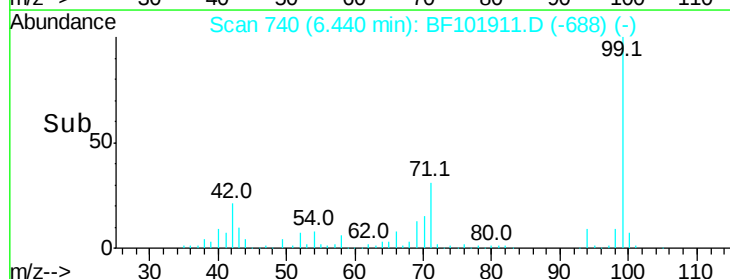
66 93.6 16.2 56.2#

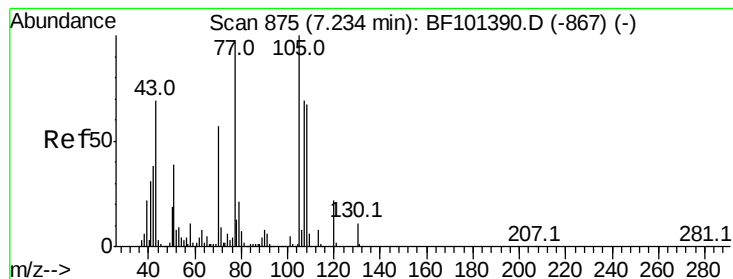


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





#19

n-Nitroso-di-n-propylamine

Concen: 12.811 ng

RT: 7.35 min Scan# 894

Delta R.T. 0.16 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 70 Resp: 77924

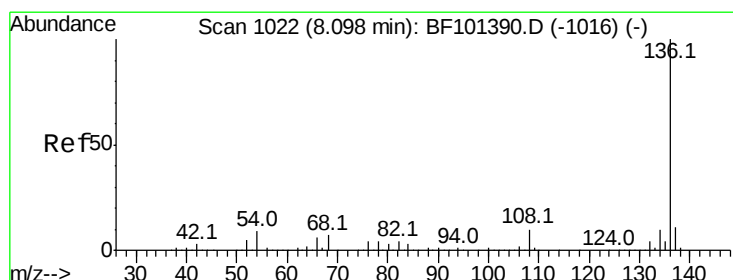
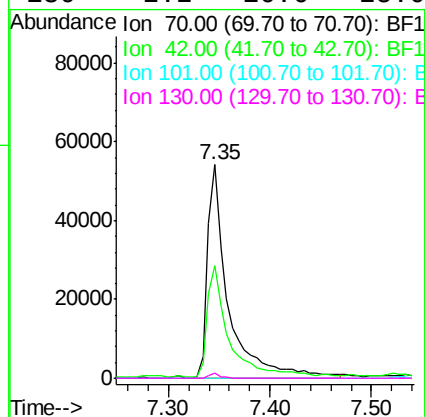
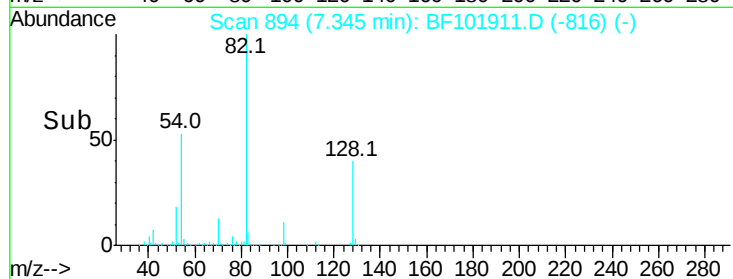
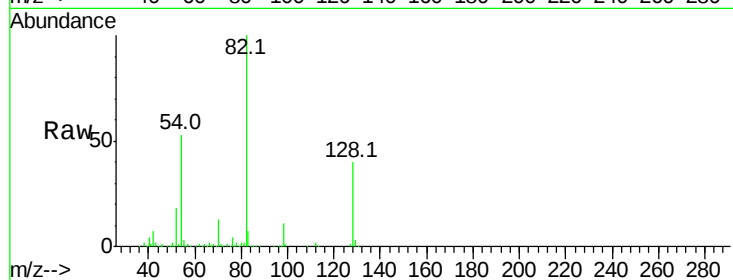
Ion Ratio Lower Upper

70 100

42 53.0 47.5 71.3

101 0.0 7.4 11.2#

130 2.2 16.6 25.0#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.05 min Scan# 1014

Delta R.T. 0.00 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

Tgt Ion: 136 Resp: 374903

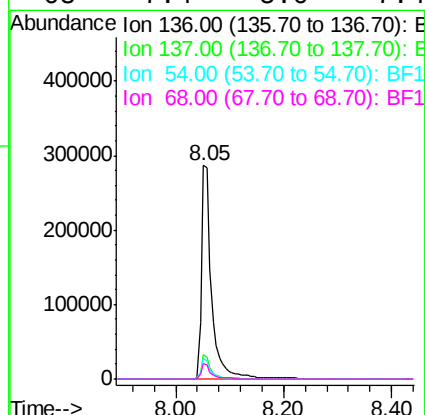
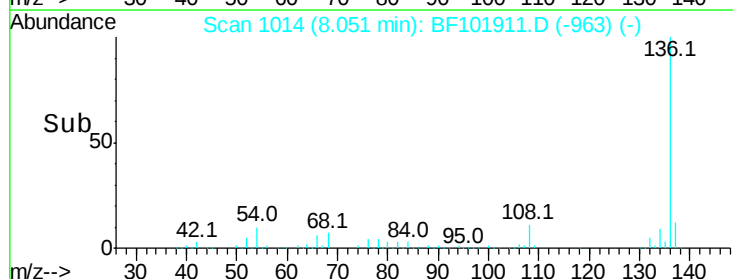
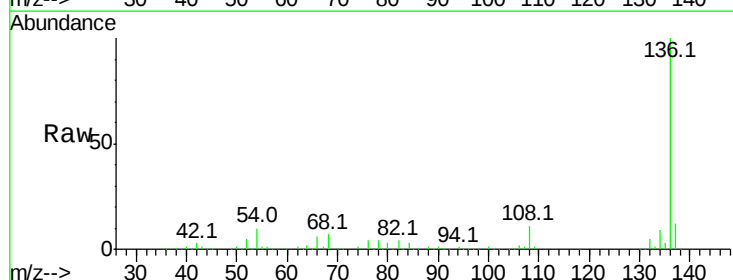
Ion Ratio Lower Upper

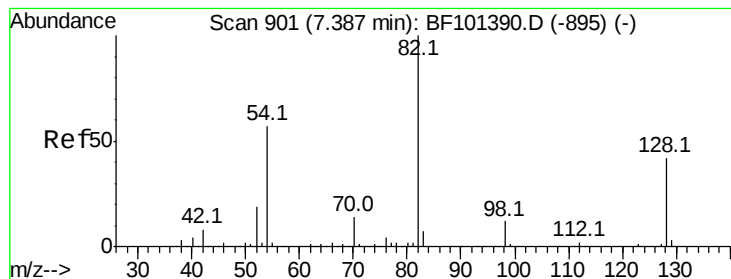
136 100

137 11.6 8.9 13.3

54 9.8 6.6 9.8#

68 7.4 5.0 7.4





#23

Nitrobenzene-d5

Concen: 83.589 ng

RT: 7.35 min Scan# 894

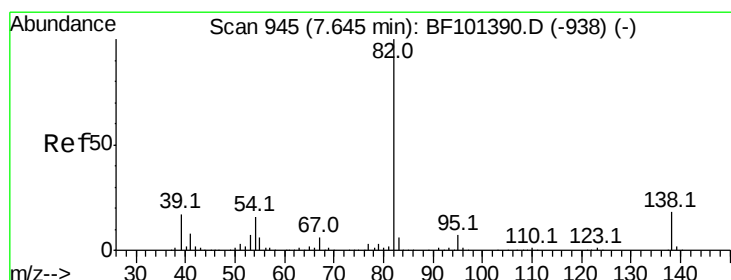
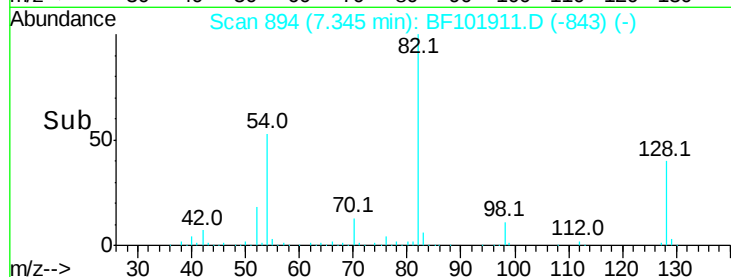
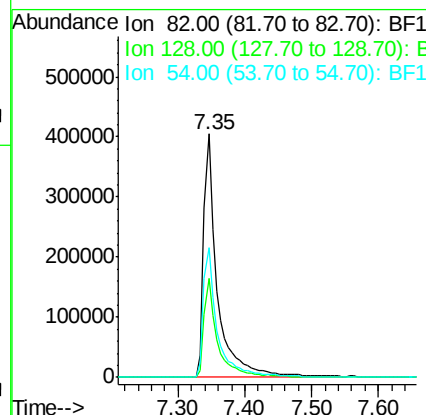
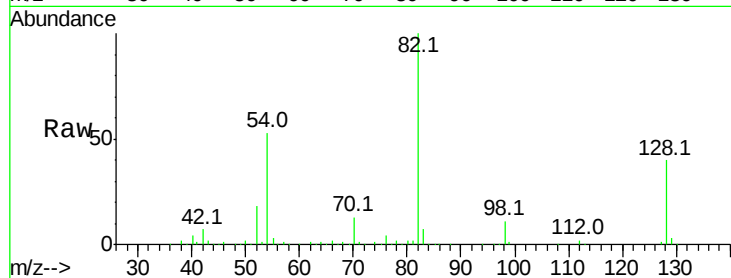
Delta R.T. 0.00 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

Instrument :
BNA_F
ClientSampled :

Tot Ion:	82	Resp:	562961
Ion Ratio	Lower	Upper	
82	100		
128	40.5	36.1	54.1
54	53.3	41.4	62.2



#25

Isophorone

Concen: 41.668 ng

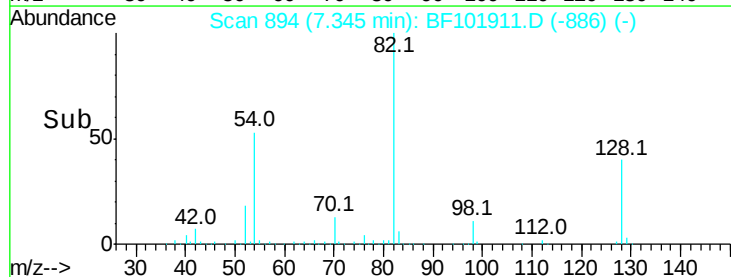
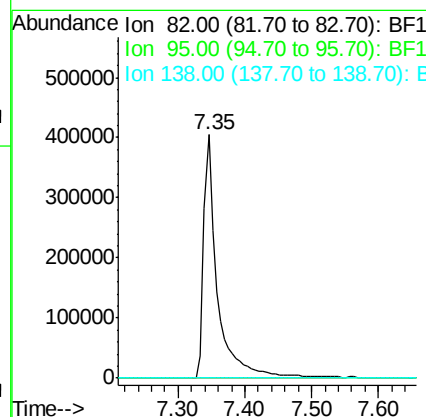
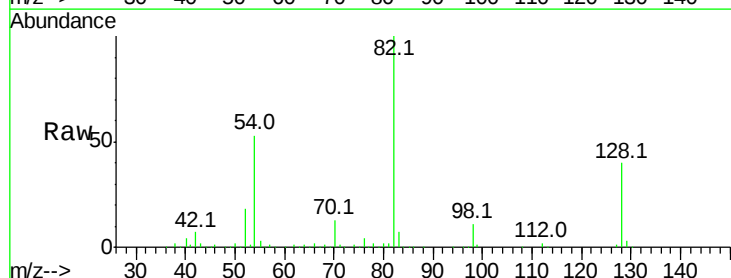
RT: 7.35 min Scan# 894

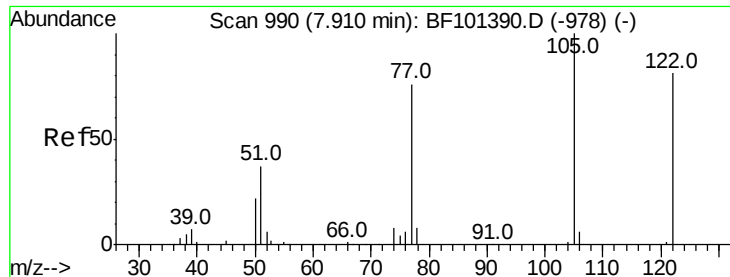
Delta R.T. -0.25 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

Tgt Ion:	82	Resp:	562961
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.2	7.8#
138	0.0	14.9	22.3#





#32

Benzoic acid

Concen: 7.999 ng

RT: 7.96 min Scan# 998

Delta R.T. 0.06 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

Instrument :

BNA_F

ClientSampled :

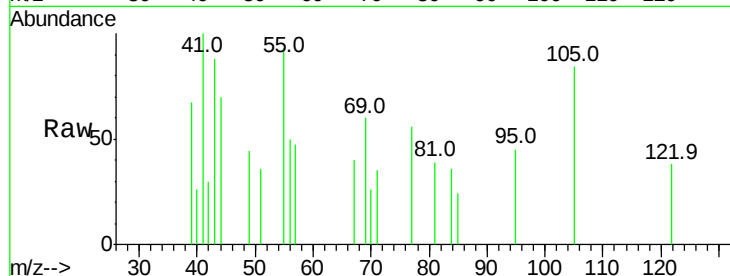
Tot Ion:122 Resp: 168

Ion Ratio Lower Upper

122 100

105 219.9 101.1 141.1#

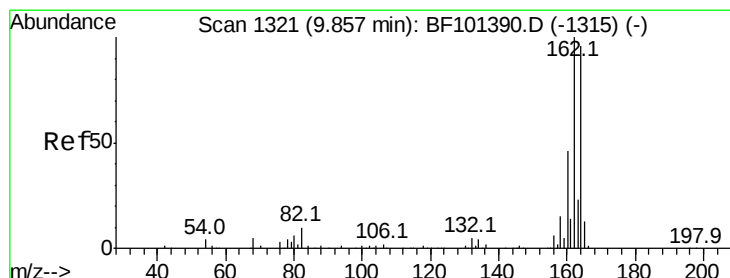
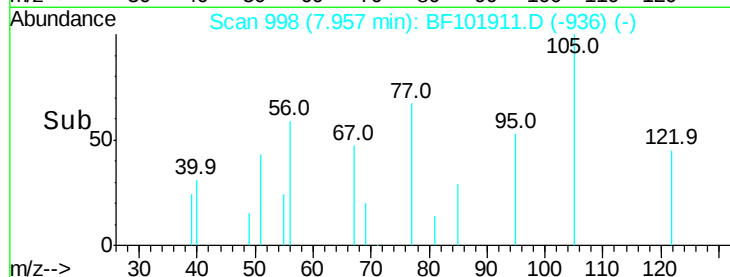
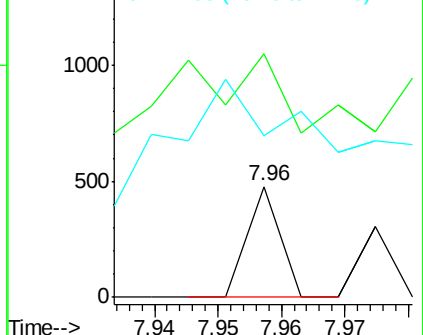
77 146.5 70.7 110.7#



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: 20.000 ng

RT: 9.80 min Scan# 1312

Delta R.T. 0.00 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

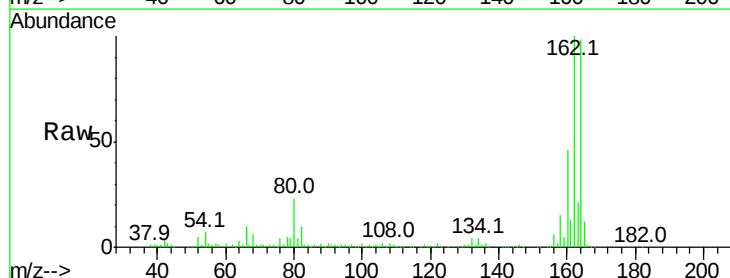
Tgt Ion:164 Resp: 133125

Ion Ratio Lower Upper

164 100

162 102.2 86.1 129.1

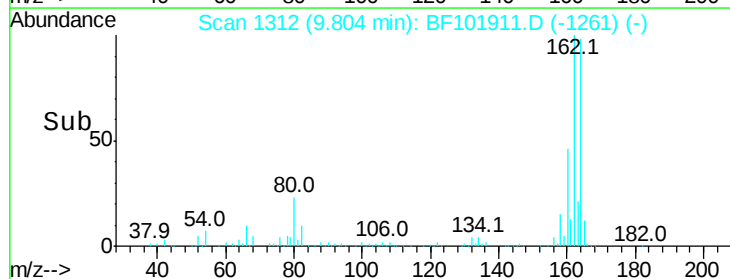
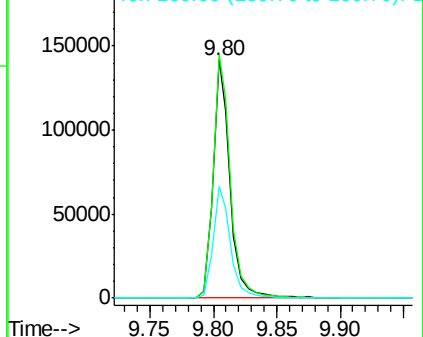
160 46.8 38.3 57.5

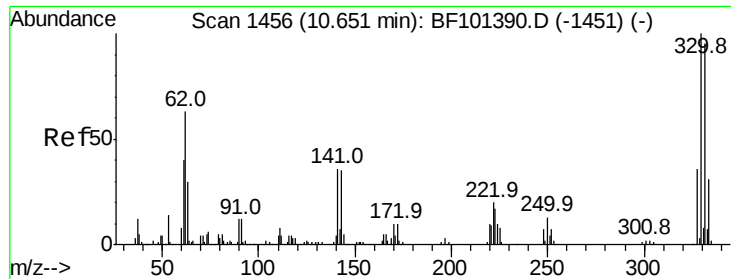


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 91.009 ng

RT: 10.61 min Scan# 1449

Delta R.T. 0.01 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

Instrument :

BNA_F

ClientSampled :

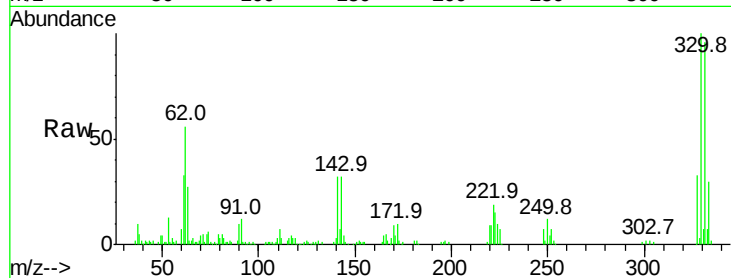
Tot Ion:330 Resp: 116743

Ion Ratio Lower Upper

330 100

332 96.7 77.0 115.6

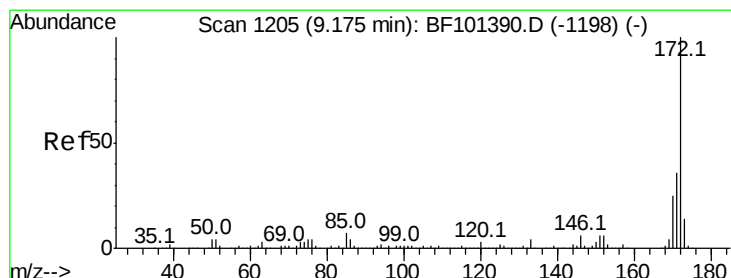
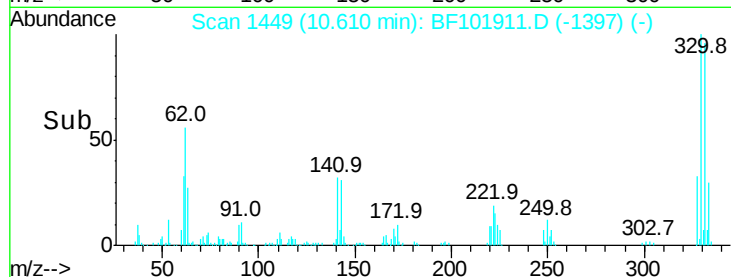
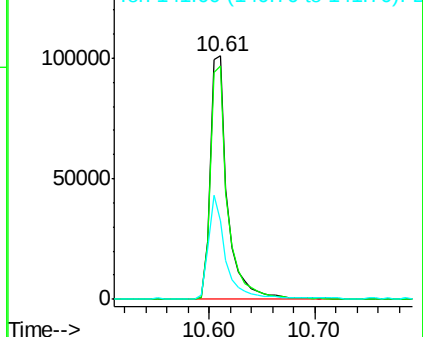
141 42.4 29.9 44.9



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: 73.421 ng

RT: 9.12 min Scan# 1196

Delta R.T. 0.00 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

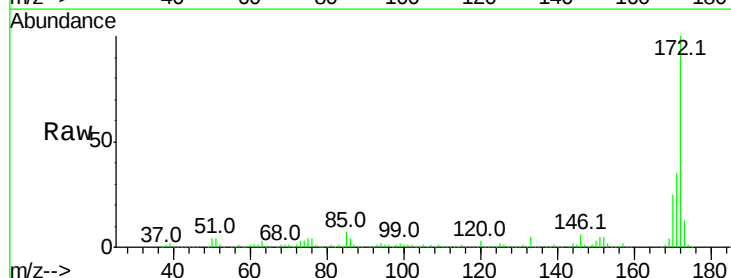
Tgt Ion:172 Resp: 630089

Ion Ratio Lower Upper

172 100

171 34.8 29.7 44.5

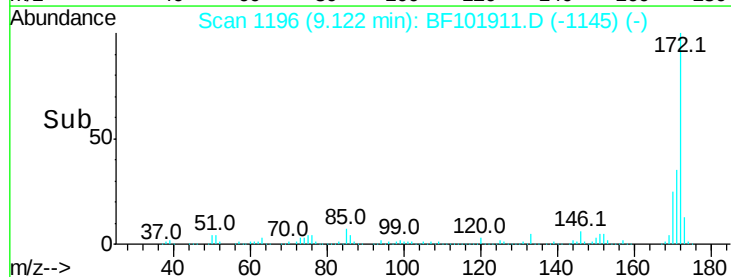
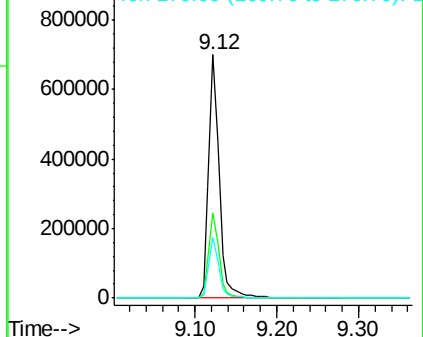
170 24.6 19.6 29.4

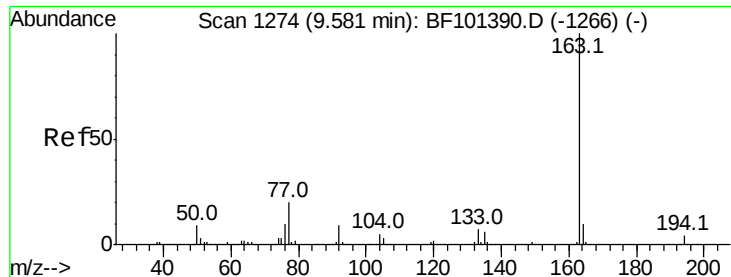


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

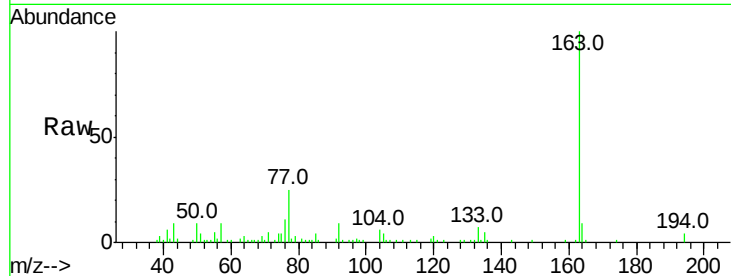




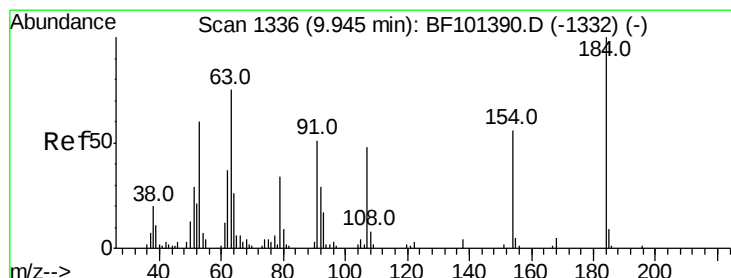
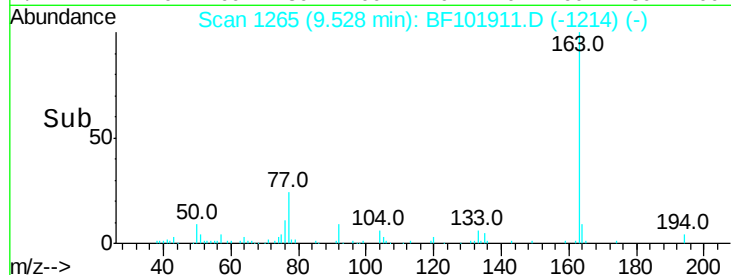
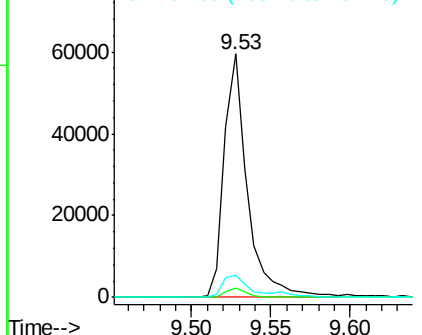
#49
Dimethylphthalate
Concen: 5.648 ng
RT: 9.53 min Scan# 1265
Delta R.T. 0.00 min
Lab File: BF101911.D
Acq: 5 Jan 2018 3:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:163 Resp: 60483
Ion Ratio Lower Upper
163 100
194 3.6 2.7 4.1
164 9.0 8.2 12.2

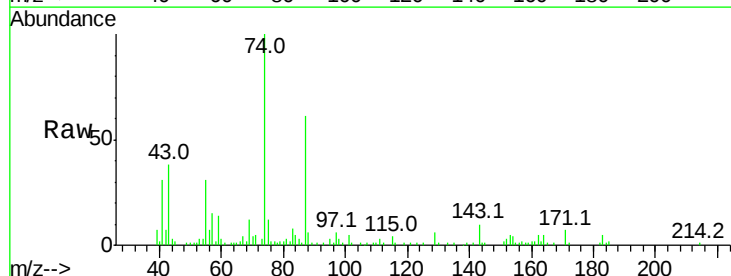


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

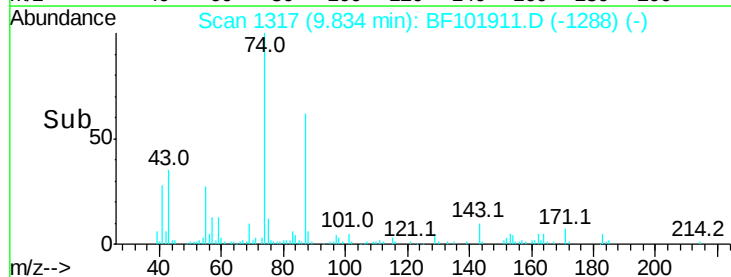
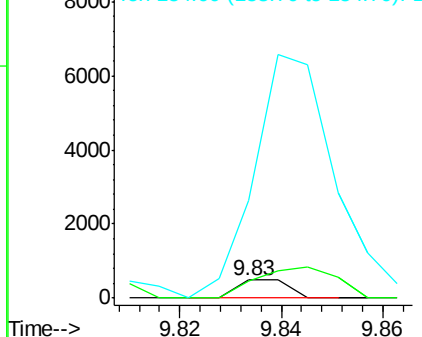


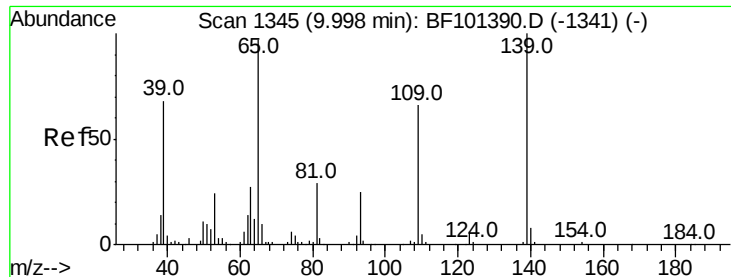
#53
2,4-Dinitrophenol
Concen: 10.714 ng
RT: 9.83 min Scan# 1317
Delta R.T. -0.13 min
Lab File: BF101911.D
Acq: 5 Jan 2018 3:20

Tgt Ion:184 Resp: 343
Ion Ratio Lower Upper
184 100
63 95.1 54.2 81.2#
154 543.9 184.0 276.0#



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





#55

4-Nitrophenol

Concen: 2.210 ng

RT: 10.03 min Scan# 1350

Delta R.T. 0.04 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

Instrument :

BNA_F

ClientSampled :

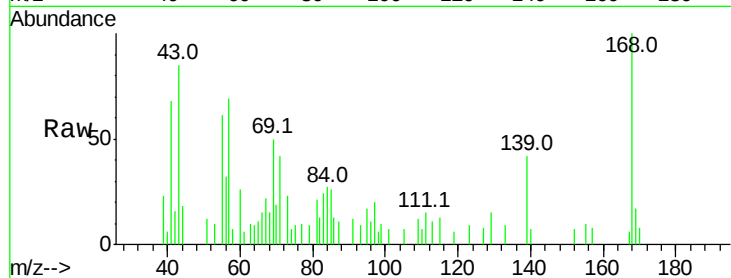
Tot Ion:139 Resp: 2615

Ion Ratio Lower Upper

139 100

109 28.8 48.4 88.4#

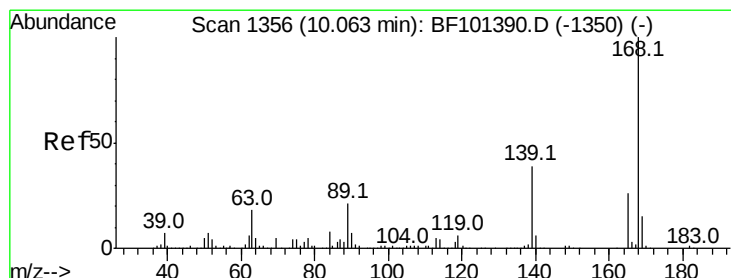
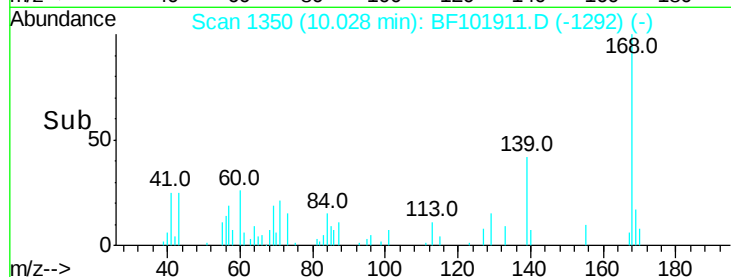
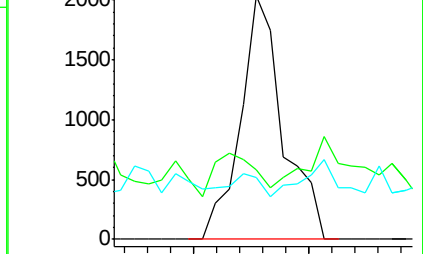
65 25.5 72.6 112.6#



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: 6.899 ng

RT: 9.80 min Scan# 1312

Delta R.T. -0.23 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

Tgt Ion:165 Resp: 16916

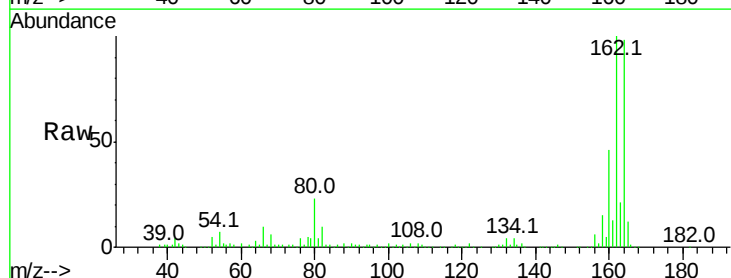
Ion Ratio Lower Upper

165 100

63 2.0 36.4 54.6#

89 3.0 57.8 86.6#

182 2.2 1.6 2.4

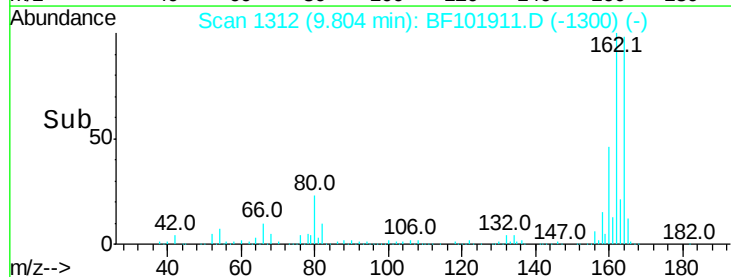
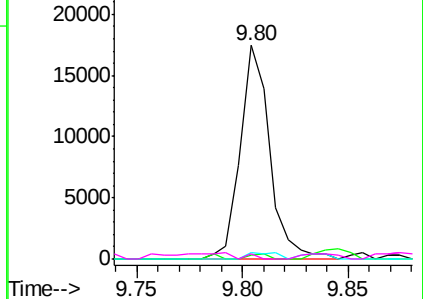


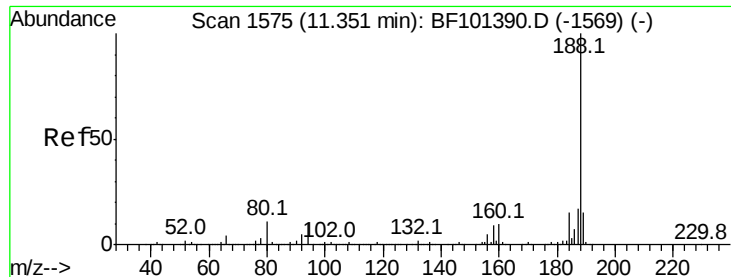
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

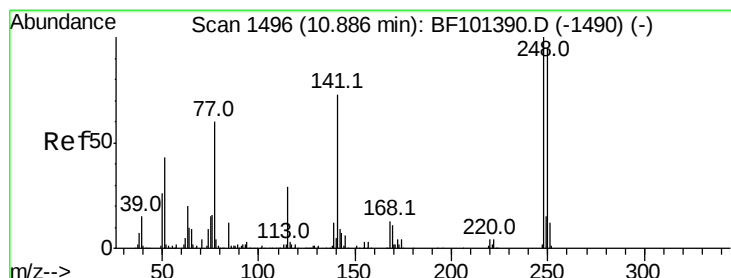
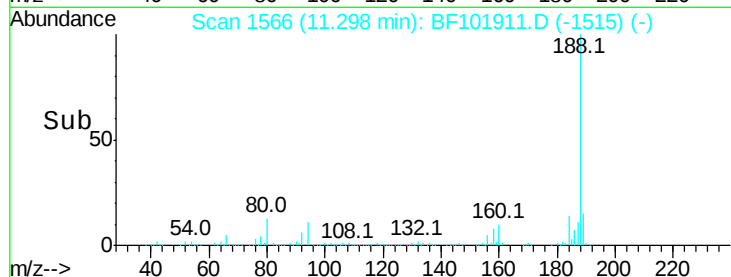
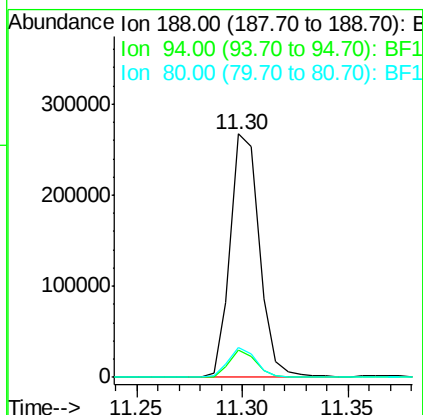
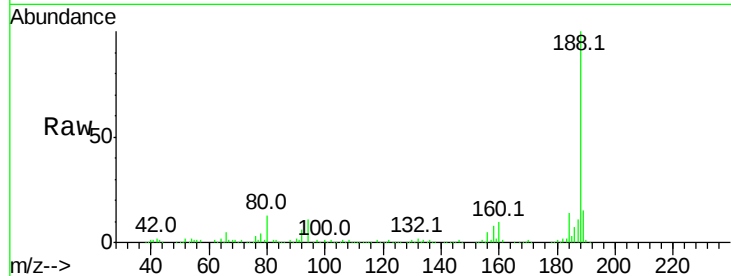




#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.30 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: BF101911.D
 Acq: 5 Jan 2018 3:20

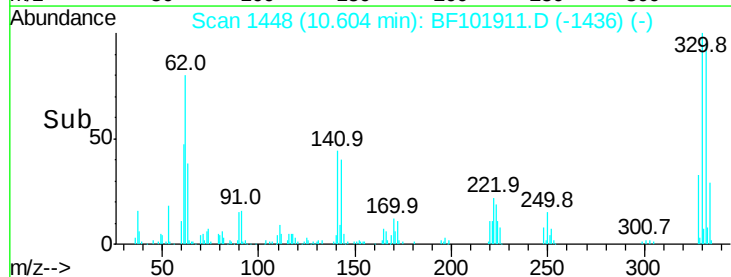
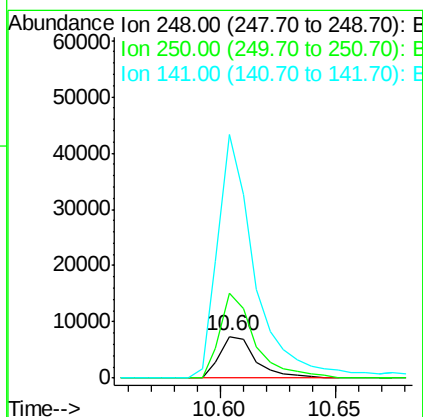
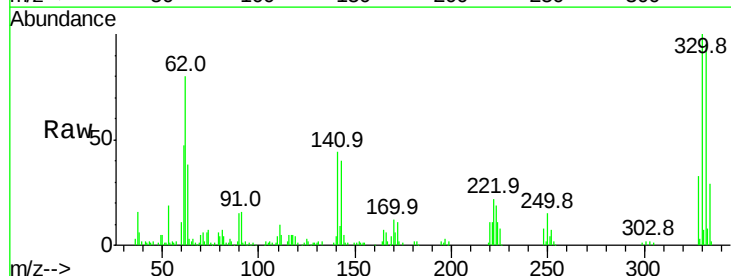
Instrument :
 BNA_F
 ClientSampleId :

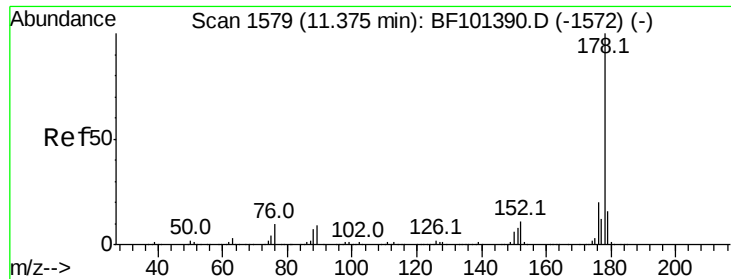
Tot Ion:188 Resp: 255731
 Ion Ratio Lower Upper
 188 100
 94 11.4 8.5 12.7
 80 12.5 9.2 13.8



#66
 4-Bromophenyl-phenylether
 Concen: 2.836 ng
 RT: 10.60 min Scan# 1448
 Delta R.T. -0.23 min
 Lab File: BF101911.D
 Acq: 5 Jan 2018 3:20

Tgt Ion:248 Resp: 8149
 Ion Ratio Lower Upper
 248 100
 250 201.3 76.9 115.3#
 141 579.8 74.4 111.6#





#70

Phenanthrene

Concen: 11.373 ng

RT: 11.33 min Scan# 1571

Delta R.T. 0.00 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

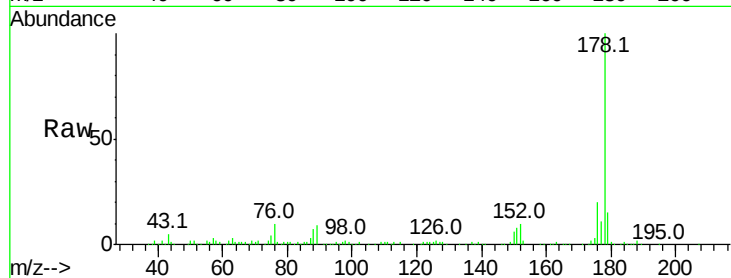
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 161739

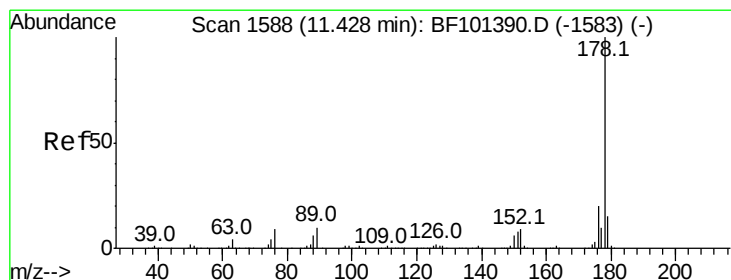
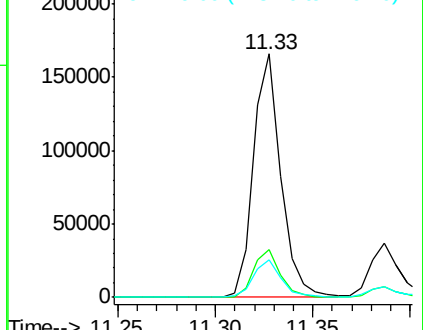
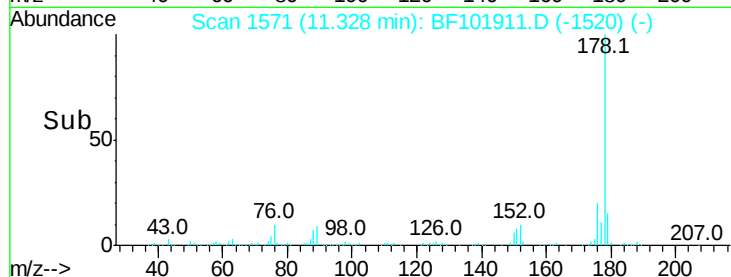
Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.8
179	15.4	13.0	19.6



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: 11.134 ng

RT: 11.33 min Scan# 1571

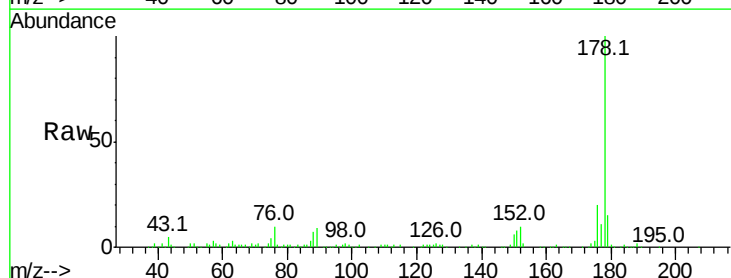
Delta R.T. -0.05 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

Tgt Ion:178 Resp: 161739

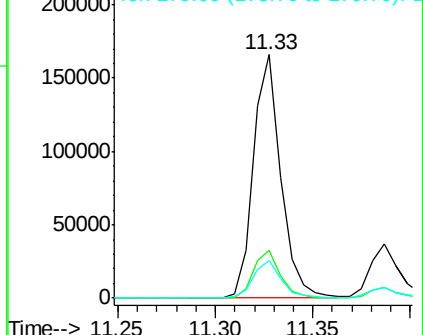
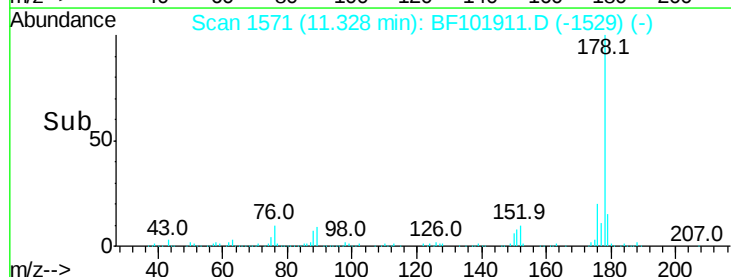
Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.4	23.2
179	15.4	12.6	19.0

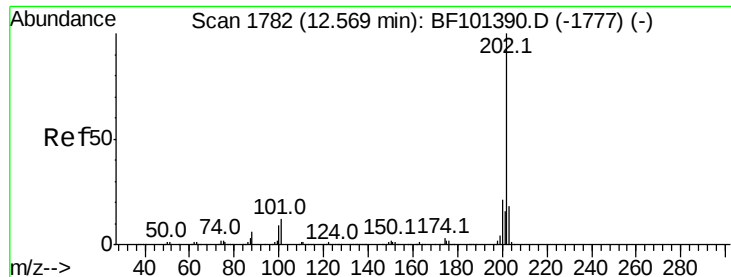


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 19.804 ng

RT: 12.53 min Scan# 1775

Delta R.T. 0.01 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

Instrument :

BNA_F

ClientSampleId :

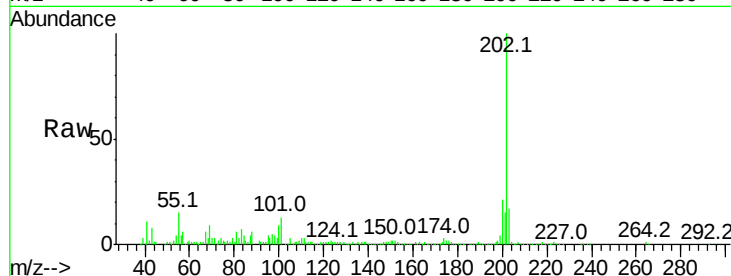
Tot Ion:202 Resp: 295626

Ion Ratio Lower Upper

202 100

101 12.6 0.0 34.1

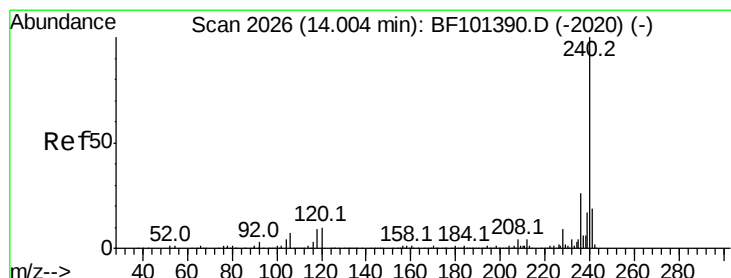
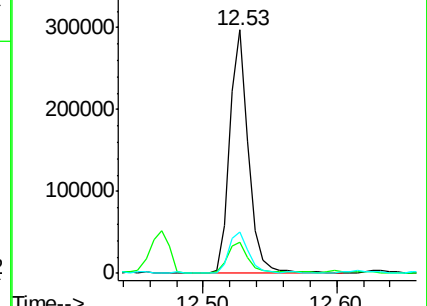
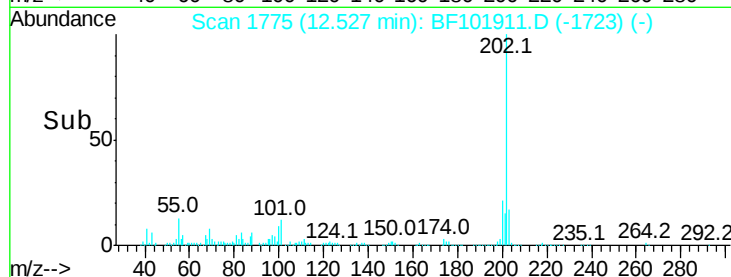
203 17.2 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2018

Delta R.T. 0.00 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

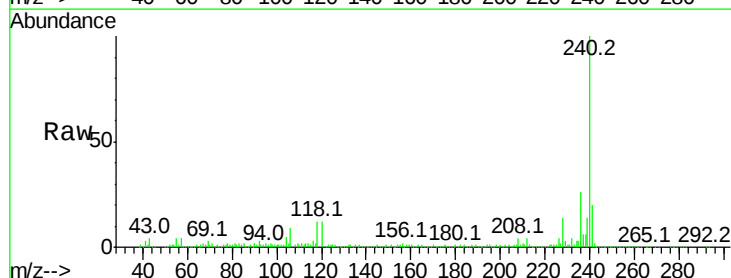
Tgt Ion:240 Resp: 275413

Ion Ratio Lower Upper

240 100

120 12.3 9.5 14.3

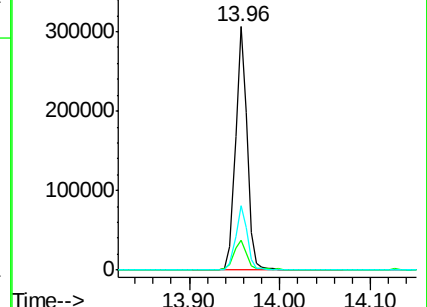
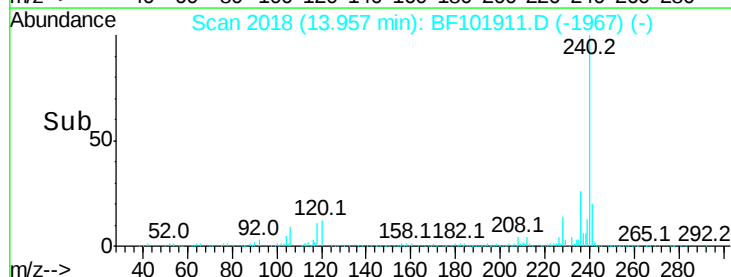
236 26.4 20.7 31.1

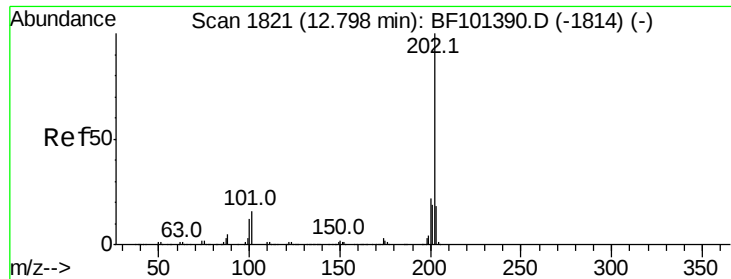


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

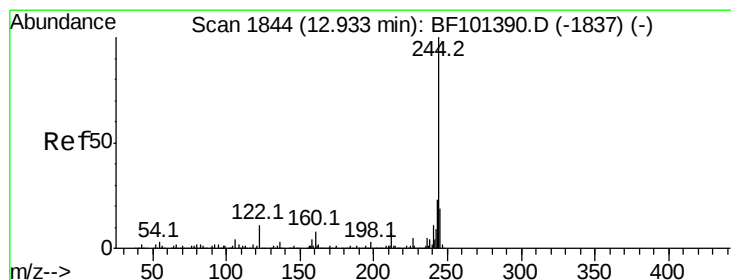
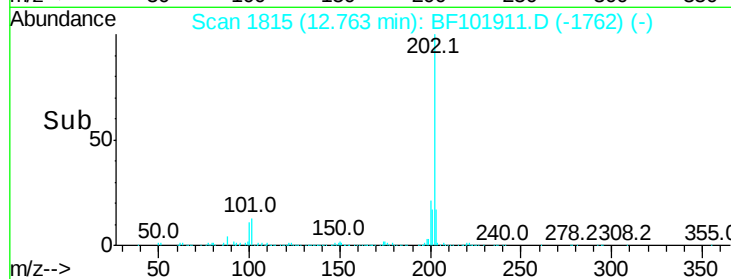
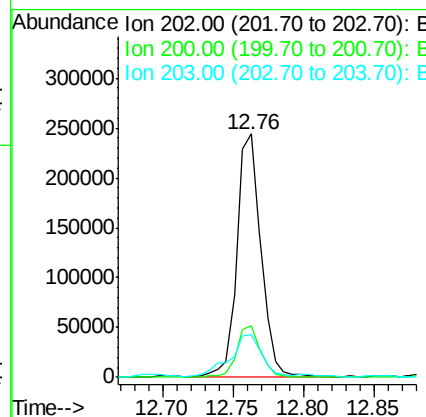
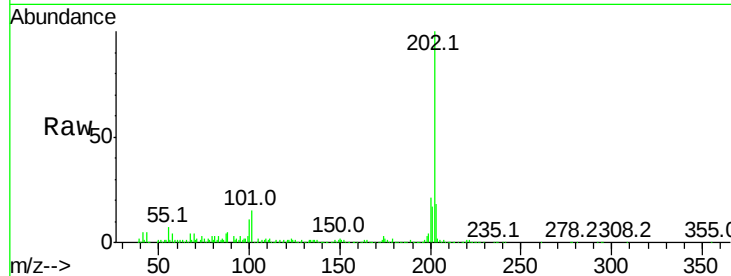




#77
 Pvrene
 Concen: 13.899 ng
 RT: 12.76 min Scan# 1815
 Delta R.T. 0.01 min
 Lab File: BF101911.D
 Acq: 5 Jan 2018 3:20

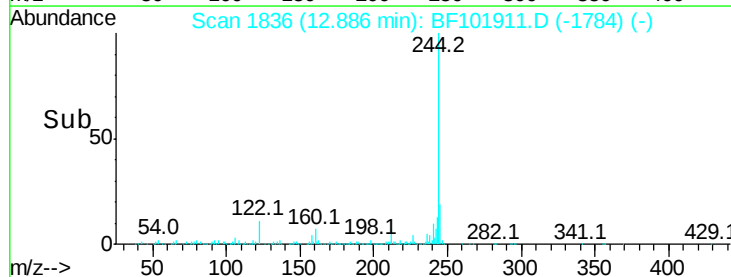
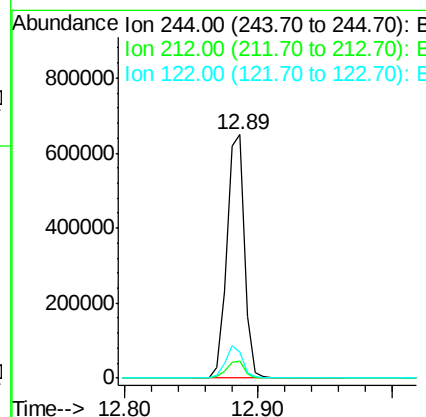
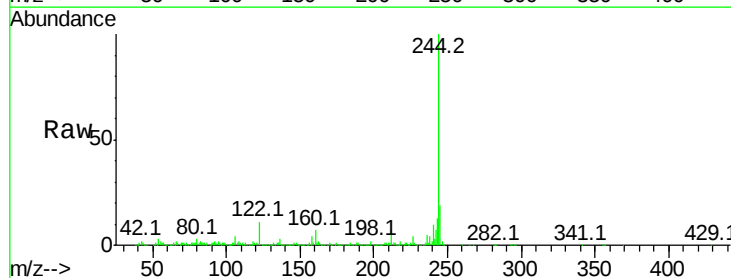
Instrument :
 BNA_F
 ClientSampleId :

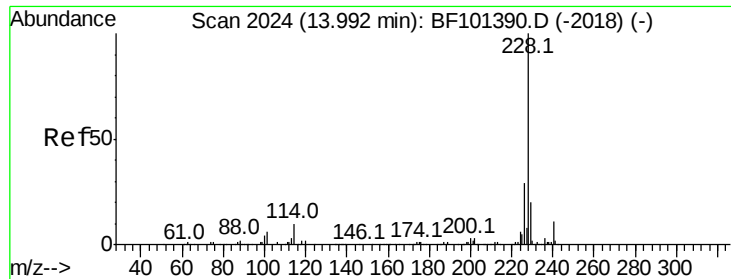
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.4	26.2
203	17.7	14.3	21.5



#78
 Terphenyl-d14
 Concen: 53.216 ng
 RT: 12.89 min Scan# 1836
 Delta R.T. 0.01 min
 Lab File: BF101911.D
 Acq: 5 Jan 2018 3:20

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.4	8.0
122	10.9	11.0	16.4#





#80

Benzo(a)anthracene

Concen: 8.661 ng

RT: 13.95 min Scan# 2016

Delta R.T. 0.00 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

Instrument :

BNA_F

ClientSampleId :

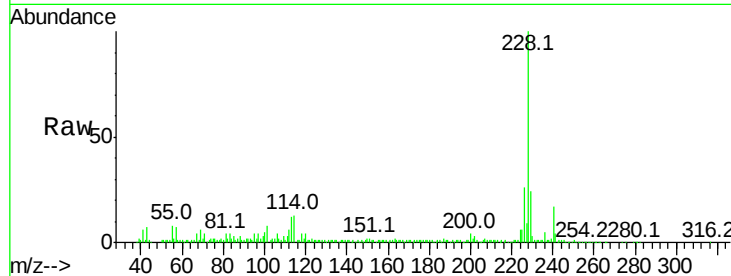
Tot Ion:228 Resp: 157511

Ion Ratio Lower Upper

228 100

226 26.1 22.6 33.8

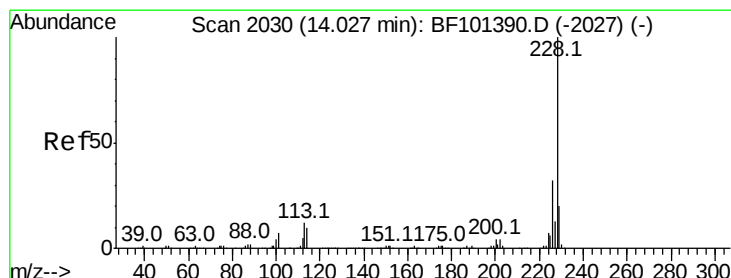
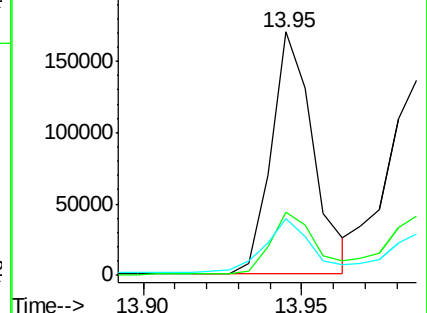
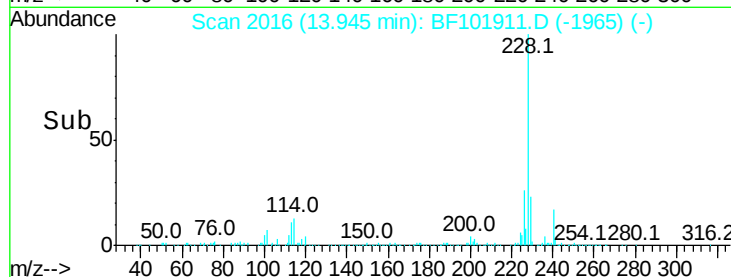
229 23.5 15.8 23.6



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: 8.698 ng

RT: 13.99 min Scan# 2023

Delta R.T. 0.01 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

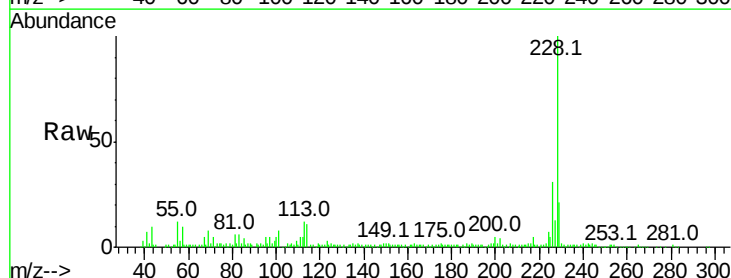
Tgt Ion:228 Resp: 149347

Ion Ratio Lower Upper

228 100

226 30.5 25.0 37.6

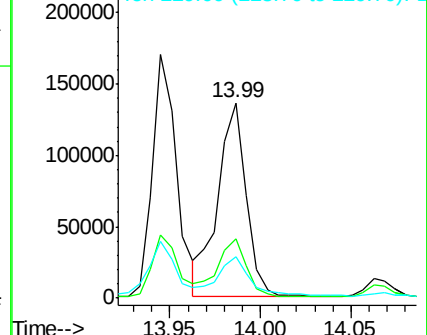
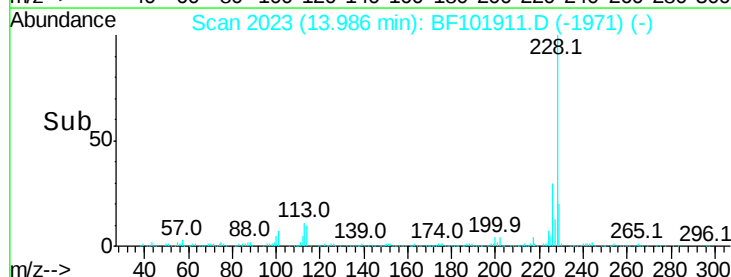
229 21.1 16.2 24.4

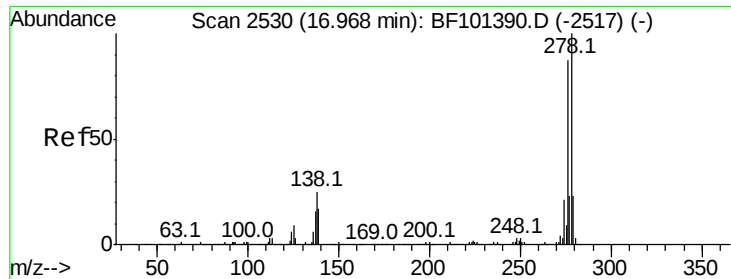


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

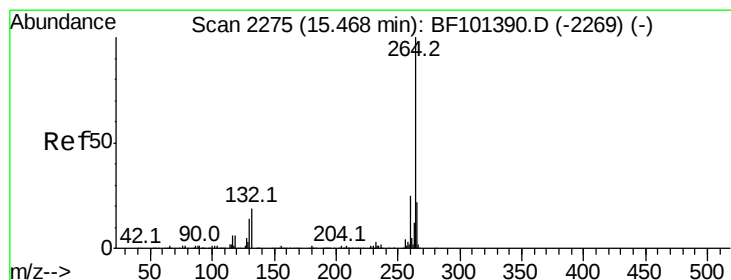
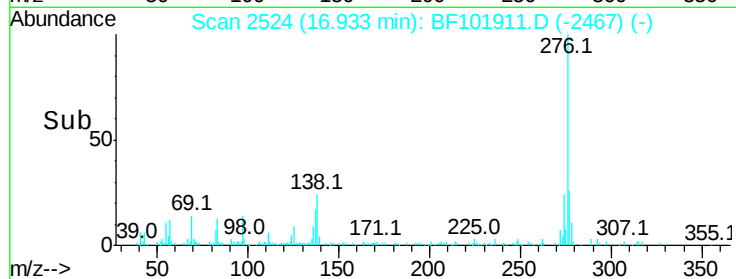
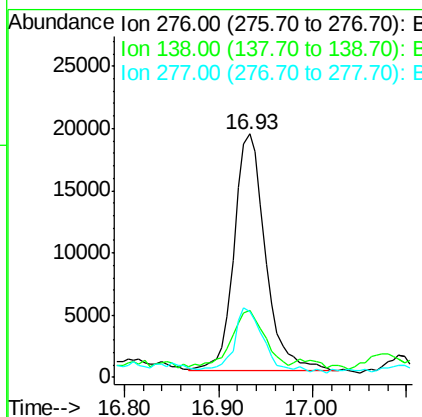
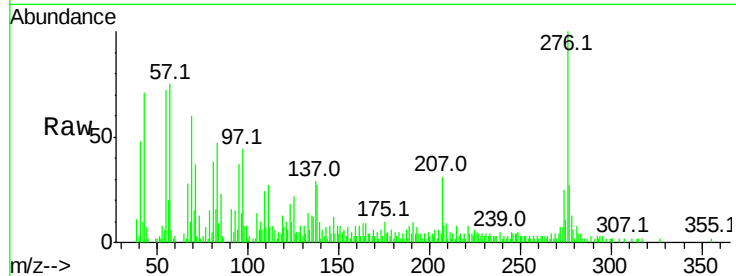




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.895 ng
 RT: 16.93 min Scan# 2524
 Delta R.T. 0.04 min
 Lab File: BF101911.D
 Acq: 5 Jan 2018 3:20

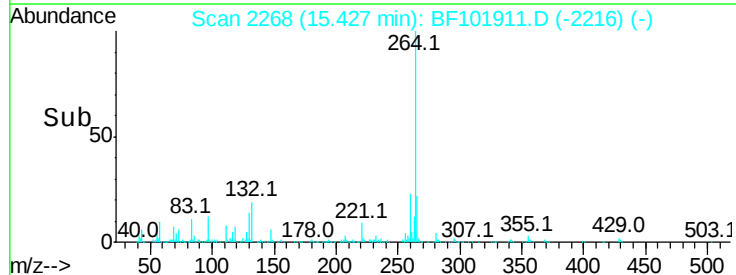
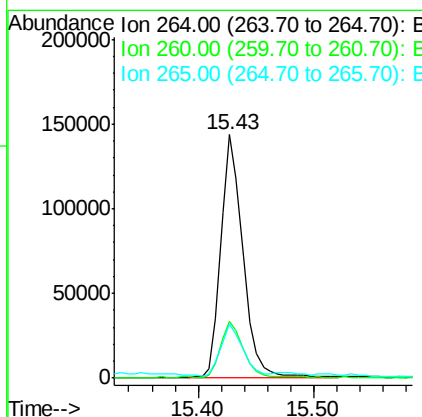
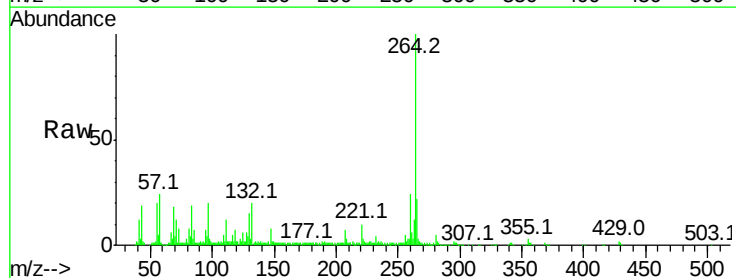
Instrument :
 BNA_F
 ClientSampled :

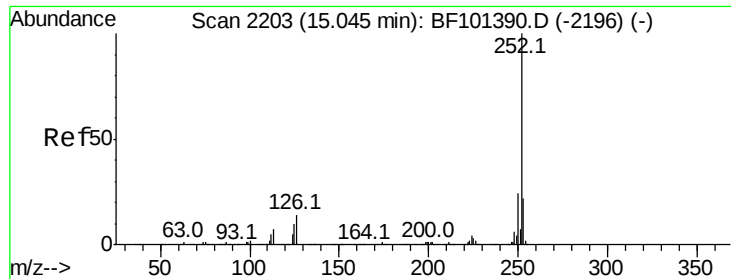
Tot Ion	Ratio	Lower	Upper
276	100		
138	24.3	25.0	37.6#
277	24.7	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.43 min Scan# 2268
 Delta R.T. 0.01 min
 Lab File: BF101911.D
 Acq: 5 Jan 2018 3:20

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.2	28.8
265	22.3	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 14.729 ng

RT: 15.00 min Scan# 2196

Delta R.T. 0.01 min

Lab File: BF101911.D

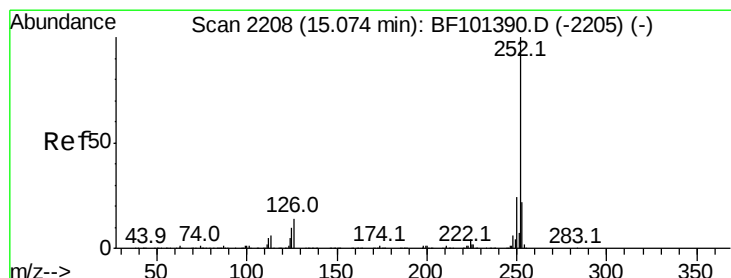
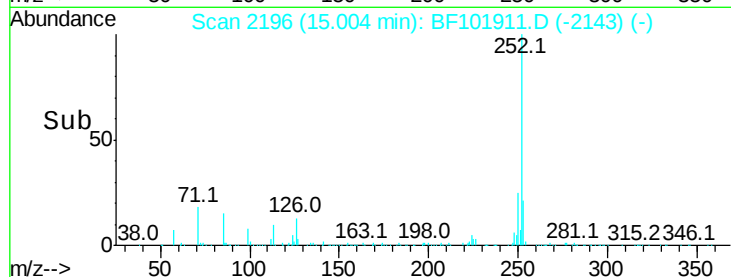
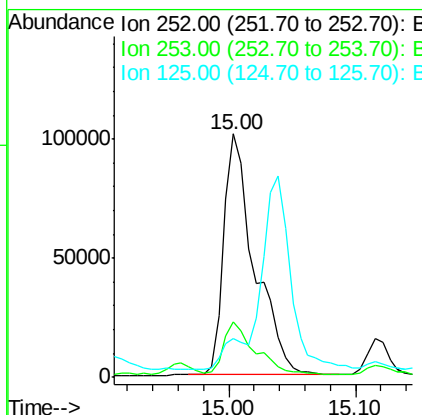
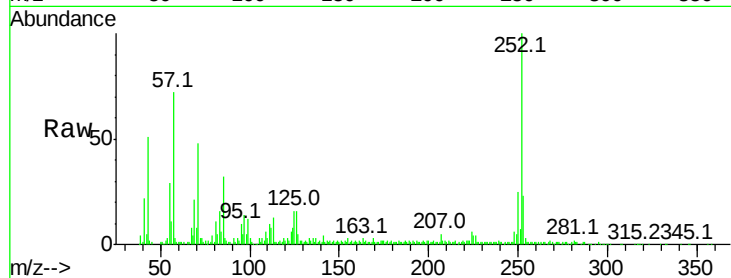
Acq: 5 Jan 2018 3:20

Instrument :

BNA_F

ClientSampleId :

Tot Ion:252	Resp:	170227
Ion Ratio	Lower	Upper
252	100	
253	22.8	17.0 25.6
125	16.0	9.0 13.6#



#88

Benzo(k)fluoranthene

Concen: 15.149 ng

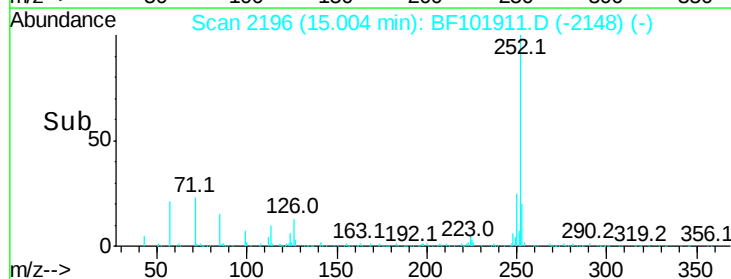
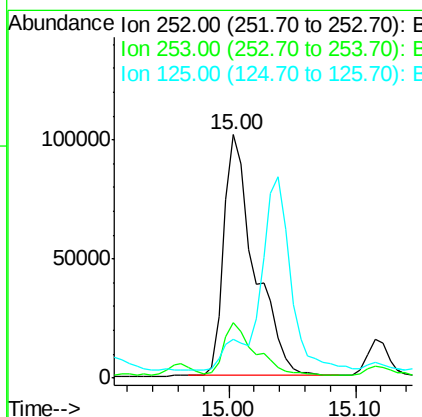
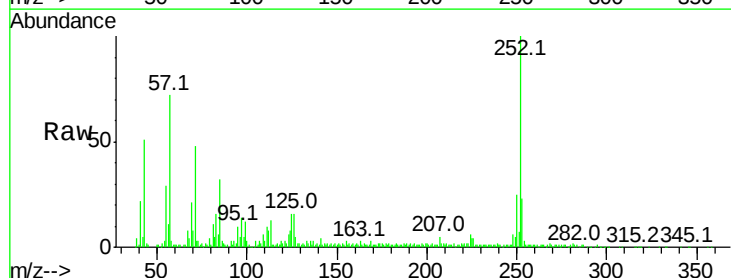
RT: 15.00 min Scan# 2196

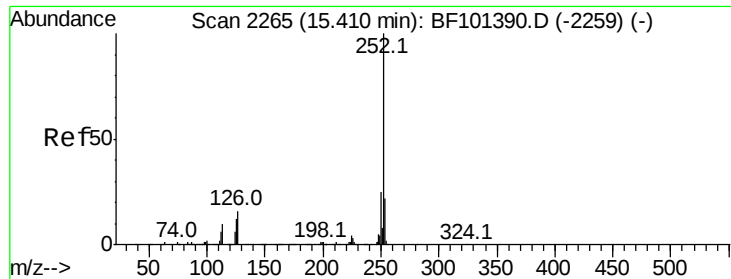
Delta R.T. -0.02 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

Tgt Ion:252	Resp:	170227
Ion Ratio	Lower	Upper
252	100	
253	22.8	17.9 26.9
125	16.0	10.2 15.2#





#89

Benzo(a)pyrene

Concen: 7.926 ng

RT: 15.37 min Scan# 2259

Delta R.T. 0.01 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

Instrument :

BNA_F

ClientSampleId :

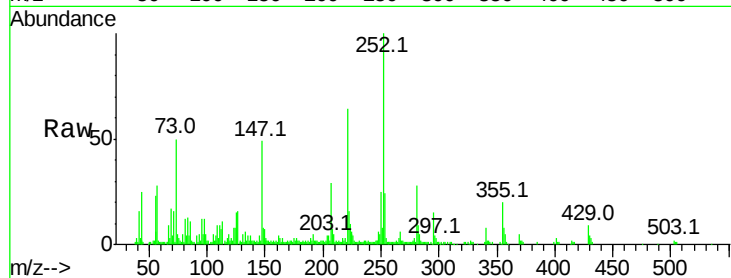
Tot Ion:252 Resp: 84443

Ion Ratio Lower Upper

252 100

253 24.2 17.1 25.7

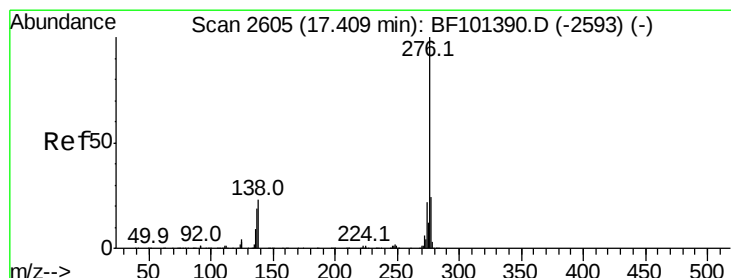
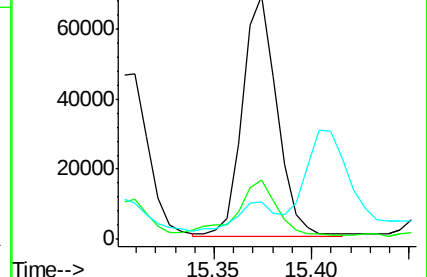
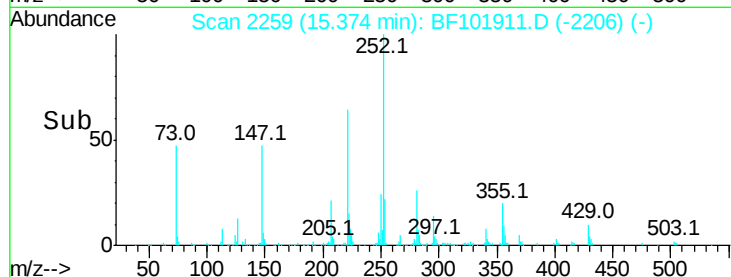
125 15.3 9.8 14.6#



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



#91

Benzo(g,h,i)perylene

Concen: 4.742 ng

RT: 17.39 min Scan# 2601

Delta R.T. 0.04 min

Lab File: BF101911.D

Acq: 5 Jan 2018 3:20

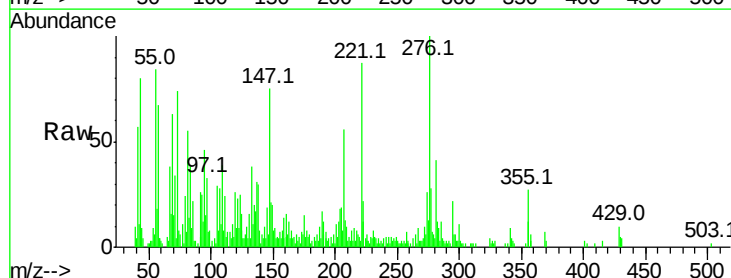
Tgt Ion:276 Resp: 42950

Ion Ratio Lower Upper

276 100

277 27.6 17.9 26.9#

138 29.8 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

