

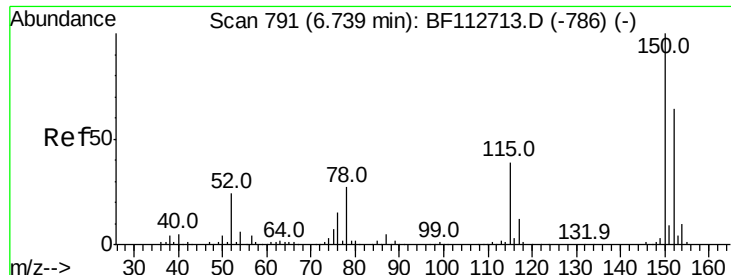
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\
 Data File : BF113041.D
 Acq On : 13 Mar 2019 21:44
 Operator : JU/SJ
 Sample : K1870-01 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 14 02:03:14 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 13 03:42:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	153163	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	573330	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	318052	20.00	ng	-0.01
64) Phenanthrene-d10	11.23	188	655092	20.00	ng	-0.01
76) Chrysene-d12	13.86	240	523564	20.00	ng	-0.01
87) Perylene-d12	15.26	264	505946	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	424740	43.14	ng	-0.01
7) Phenol-d6	6.37	99	582230	47.07	ng	0.00
23) Nitrobenzene-d5	7.28	82	332968	34.75	ng	-0.02
42) 2,4,6-Tribromophenol	10.54	330	206633	61.20	ng	-0.01
45) 2-Fluorobiphenyl	9.08	172	654424	28.25	ng	-0.01
79) Terphenyl-d14	12.81	244	667121	24.70	ng	-0.01
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.28	70	42719	5.453	ng	# 77
25) Isophorone	7.28	82	327263	15.855	ng	# 66
50) Dimethylphthalate	9.47	163	62044	2.646	ng	98
51) 2,6-Dinitrotoluene	9.76	165	40695	8.333	ng	# 18
57) 2,4-Dinitrotoluene	9.76	165	40695	6.704	ng	# 18
65) 4,6-Dinitro-2-methylphenol	10.54	198	261	4.700	ng	# 1
71) Phenanthrene	11.26	178	72361	2.220	ng	97
75) Fluoranthene	12.44	202	162285	4.647	ng	94
78) Pyrene	12.66	202	154634	3.503	ng	98
81) Benzo(a)anthracene	13.84	228	76784	2.116	ng	99
83) Chrysene	13.88	228	75403	2.121	ng	96
88) Benzo(b)fluoranthene	14.87	252	144508	4.416	ng	# 95
89) Benzo(k)fluoranthene	14.87	252	144508	4.875	ng	# 95
90) Benzo(a)pyrene	15.20	252	77546	2.679	ng	97

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

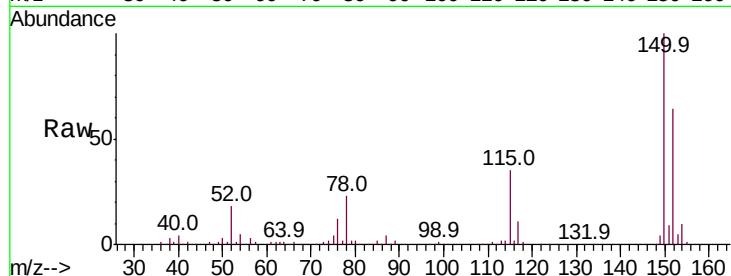


#1

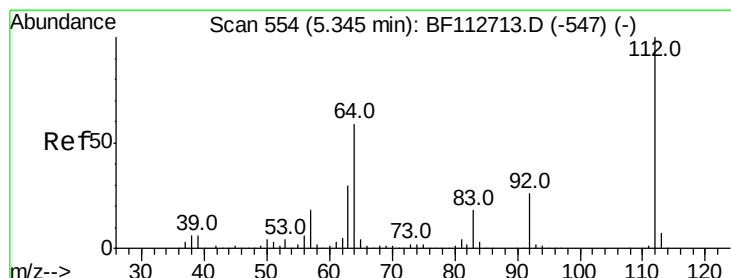
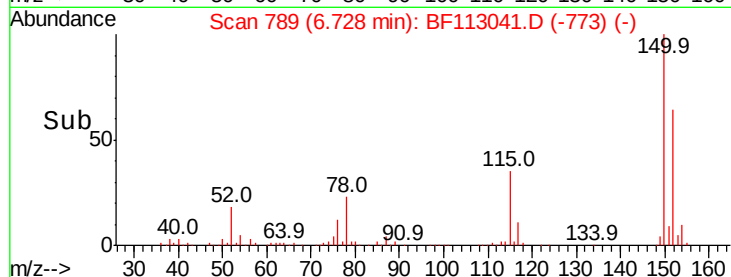
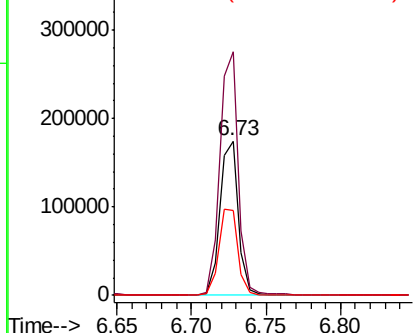
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF113041.D
Acq: 13 Mar 2019 21:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 153163
Ion Ratio Lower Upper
152 100
150 157.4 124.2 186.2
115 55.1 48.2 72.4



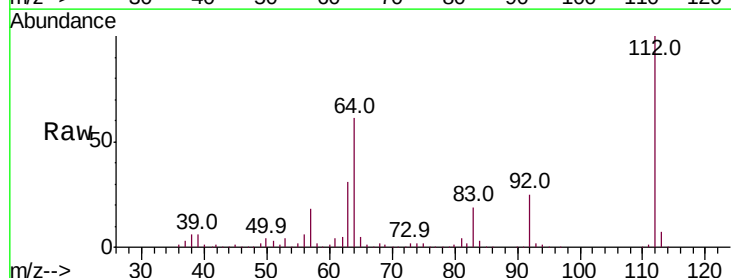
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



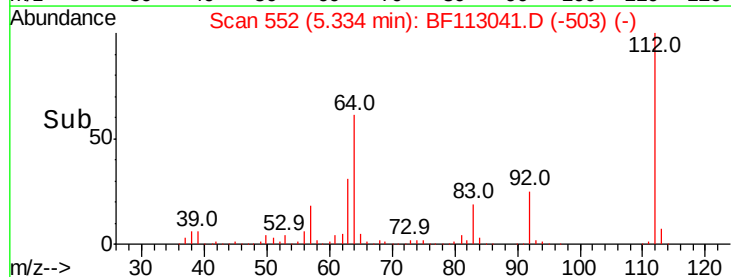
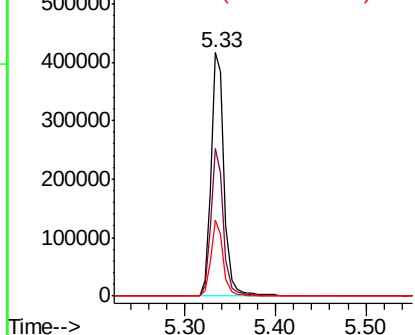
#5

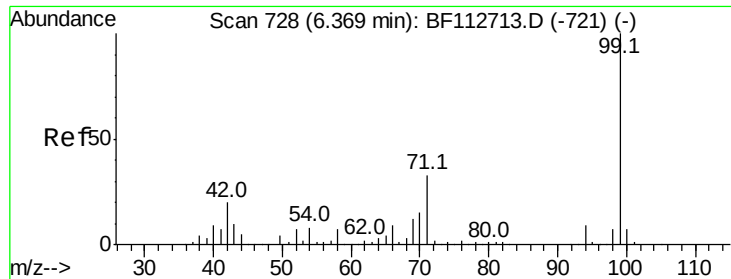
2-Fluorophenol
Concen: 43.137 ng
RT: 5.33 min Scan# 552
Delta R.T. -0.01 min
Lab File: BF113041.D
Acq: 13 Mar 2019 21:44

Tgt Ion:112 Resp: 424740
Ion Ratio Lower Upper
112 100
64 60.8 47.6 71.4
63 31.3 24.4 36.6



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: 47.073 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113041.D

Acq: 13 Mar 2019 21:44

Instrument :

BNA_F

ClientSampleId :

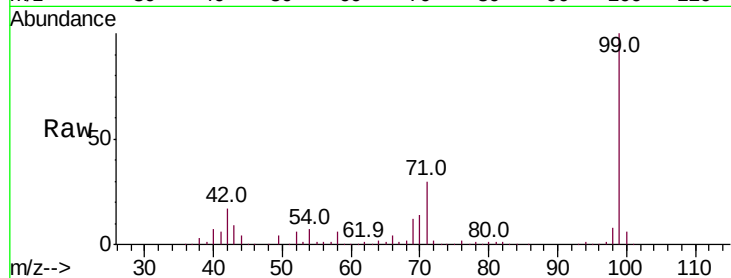
Tot Ion: 99 Resp: 582230

Ion Ratio Lower Upper

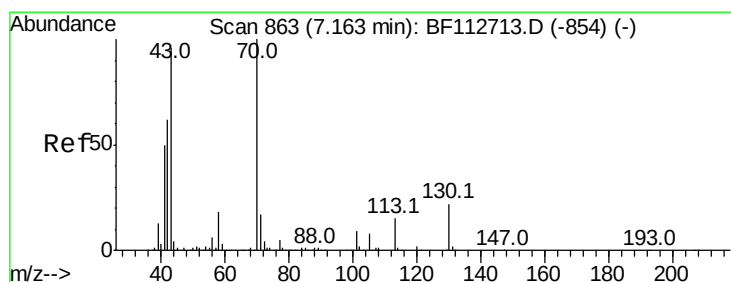
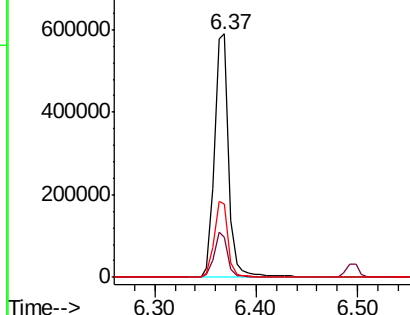
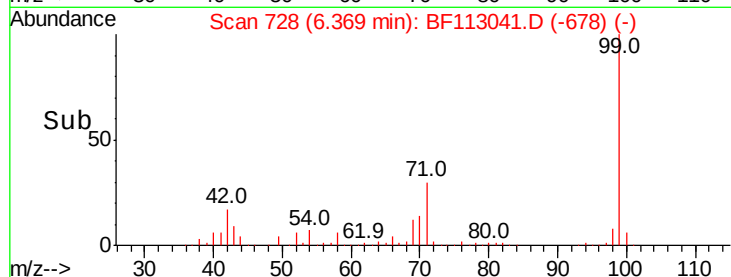
99 100

42 16.6 16.3 24.5

71 30.2 26.2 39.4



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



#19

n-Nitroso-di-n-propylamine

Concen: 5.453 ng

RT: 7.28 min Scan# 883

Delta R.T. 0.12 min

Lab File: BF113041.D

Acq: 13 Mar 2019 21:44

Tgt Ion: 70 Resp: 42719

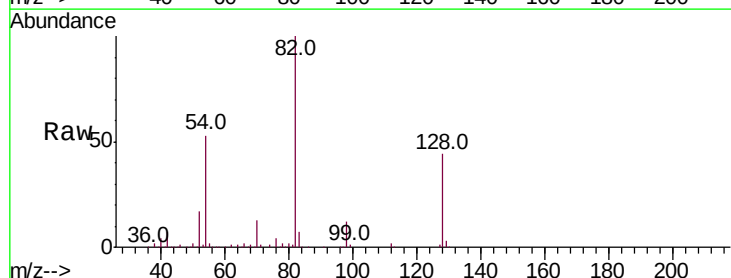
Ion Ratio Lower Upper

70 100

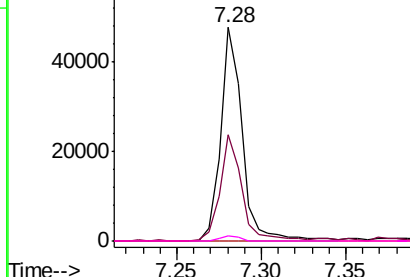
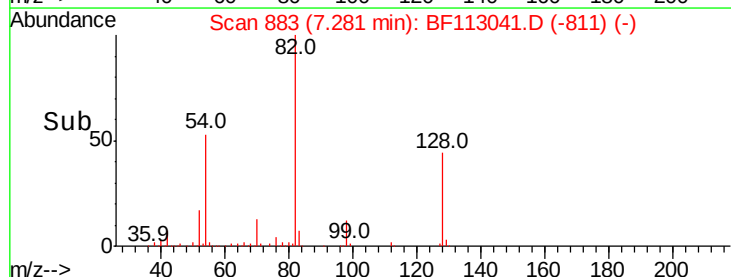
42 49.7 49.9 74.9#

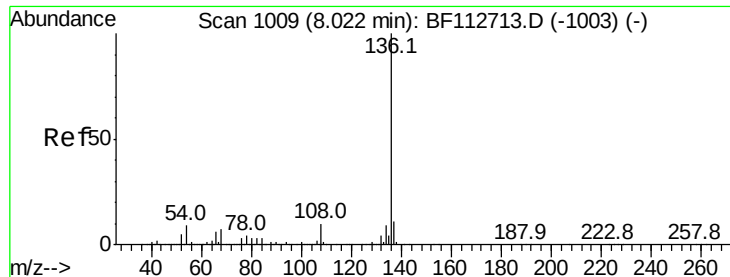
101 0.0 7.4 11.2#

130 2.2 17.4 26.2#



Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): BF1
Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF113041.D

Acq: 13 Mar 2019 21:44

Instrument :

BNA_F

ClientSampled :

Tot Ion:136 Resp: 573330

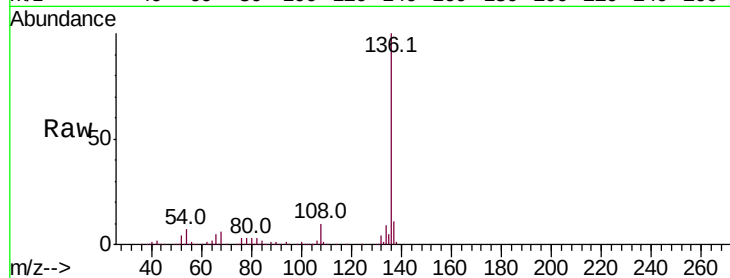
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 7.3 7.3 10.9

68 5.7 5.4 8.2

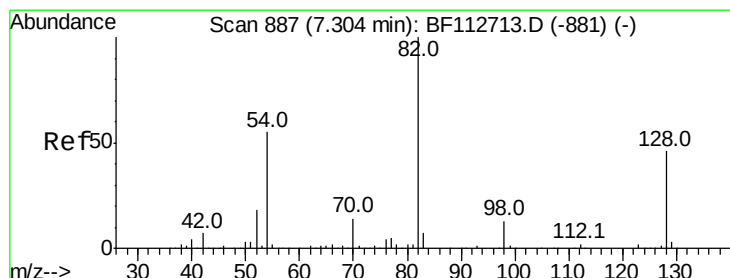
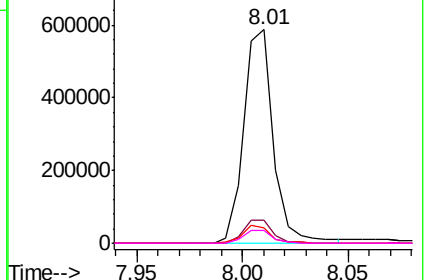
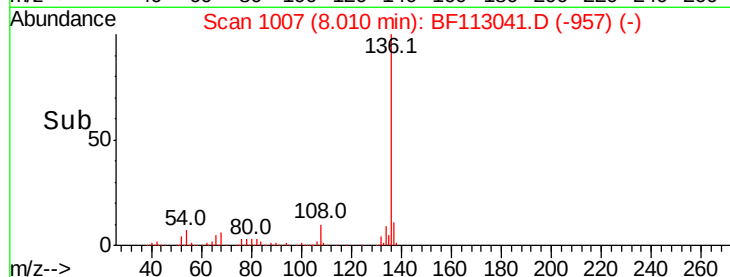


Abundance Ion 136.00 (135.70 to 136.70): E

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: 34.752 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.02 min

Lab File: BF113041.D

Acq: 13 Mar 2019 21:44

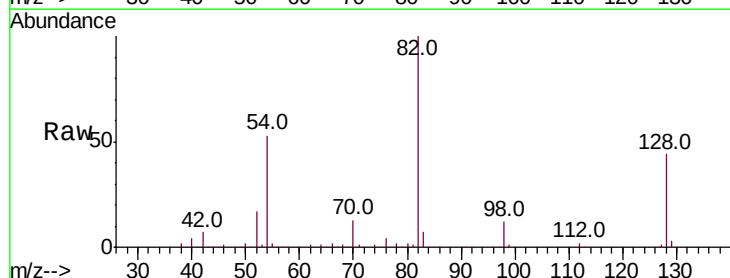
Tgt Ion: 82 Resp: 332968

Ion Ratio Lower Upper

82 100

128 43.8 36.3 54.5

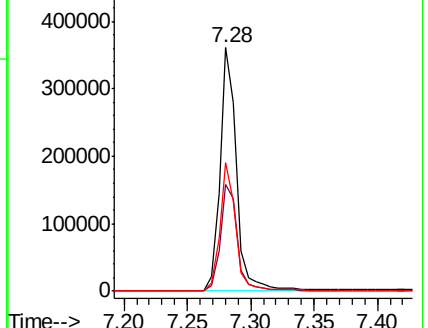
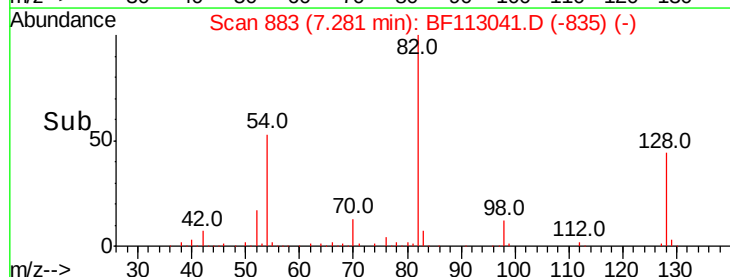
54 52.7 43.7 65.5

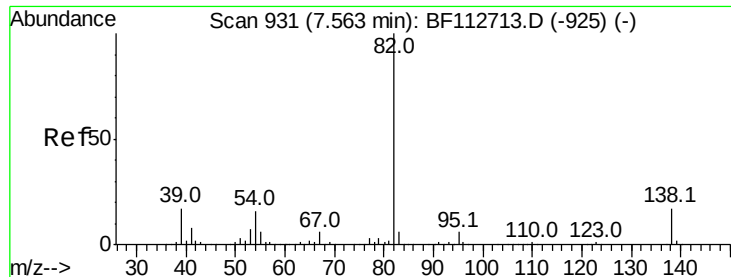


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 15.855 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.28 min

Lab File: BF113041.D

Acq: 13 Mar 2019 21:44

Instrument :

BNA_F

ClientSampled :

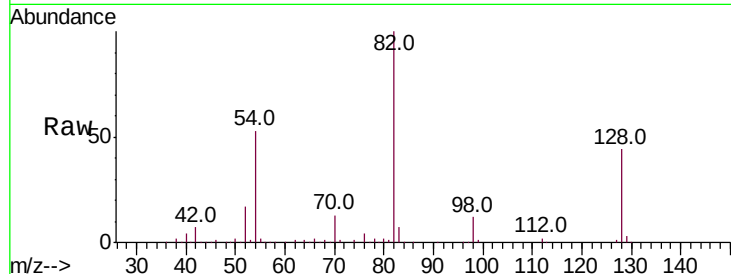
Tot Ion: 82 Resp: 327263

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

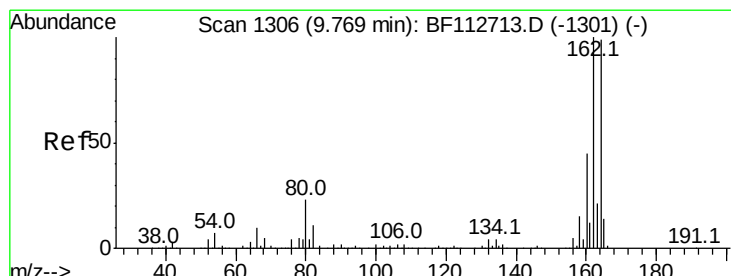
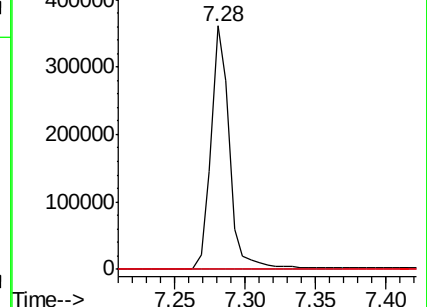
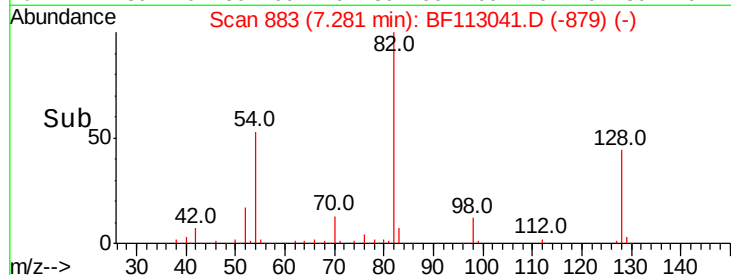
138 0.0 13.8 20.8#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF113041.D

Acq: 13 Mar 2019 21:44

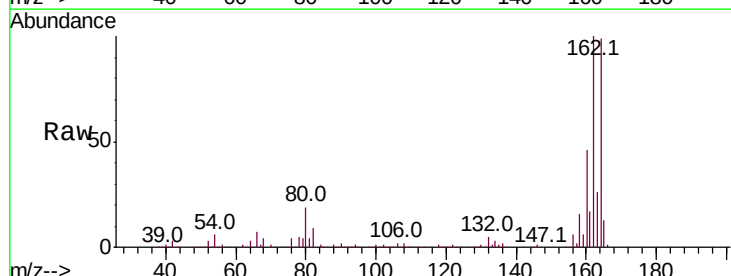
Tgt Ion:164 Resp: 318052

Ion Ratio Lower Upper

164 100

162 100.8 80.6 120.8

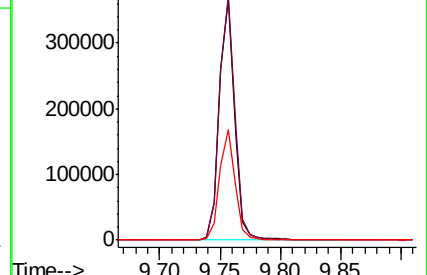
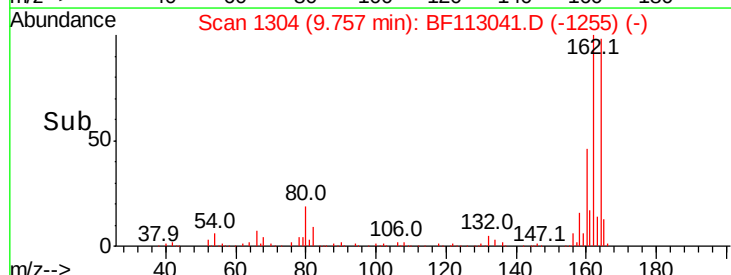
160 46.0 36.0 54.0

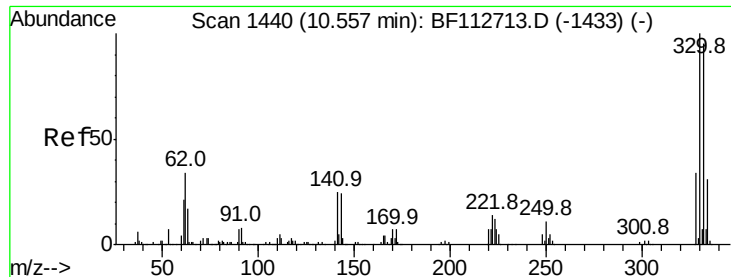


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

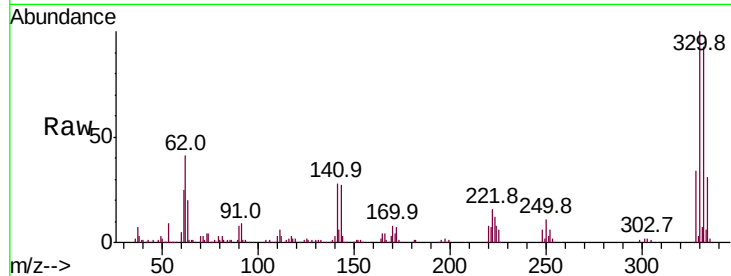




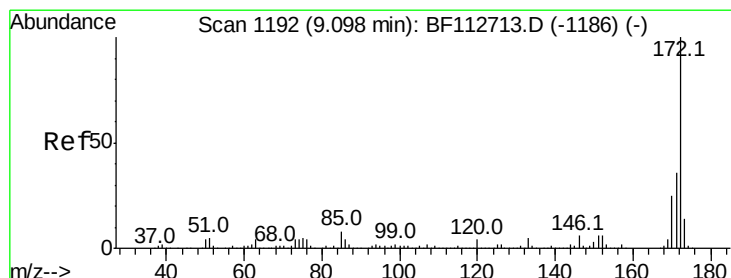
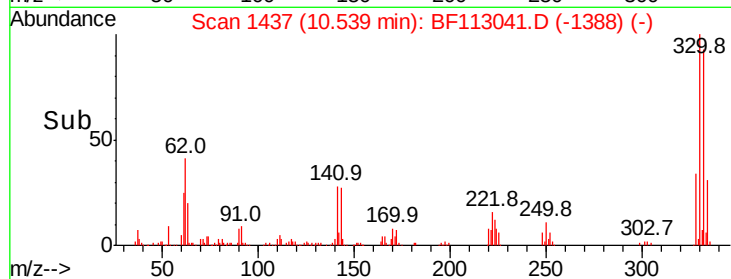
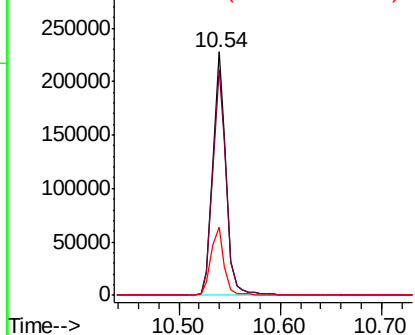
#42
 2,4,6-Tribromophenol
 Concen: 61.197 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF113041.D
 Acq: 13 Mar 2019 21:44

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 206633
 Ion Ratio Lower Upper
 330 100
 332 94.9 76.2 114.4
 141 28.2 27.0 40.6

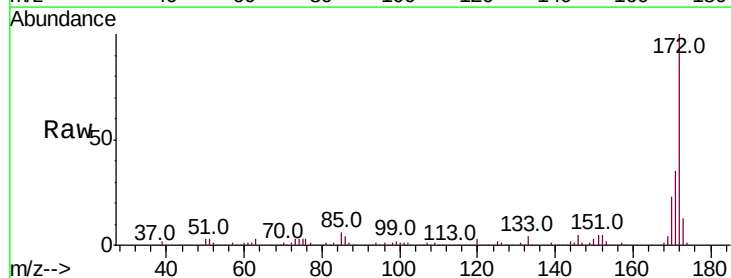


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

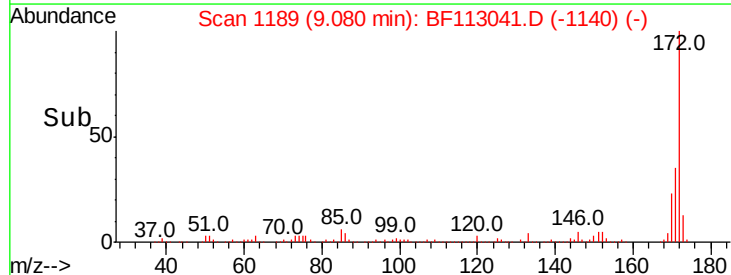
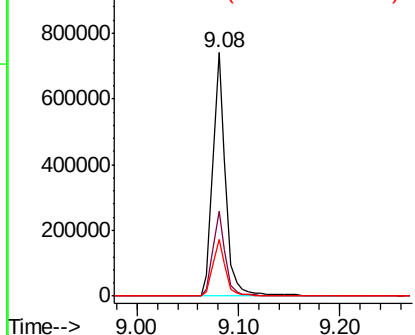


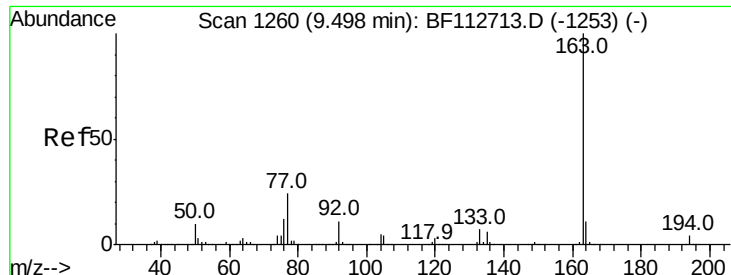
#45
 2-Fluorobiphenyl
 Concen: 28.254 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF113041.D
 Acq: 13 Mar 2019 21:44

Tgt Ion:172 Resp: 654424
 Ion Ratio Lower Upper
 172 100
 171 35.0 29.0 43.4
 170 23.4 20.0 30.0



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





#50

Dimethylphthalate

Concen: 2.646 ng

RT: 9.47 min Scan# 1256

Delta R.T. -0.02 min

Lab File: BF113041.D

Acq: 13 Mar 2019 21:44

Instrument :

BNA_F

ClientSampleId :

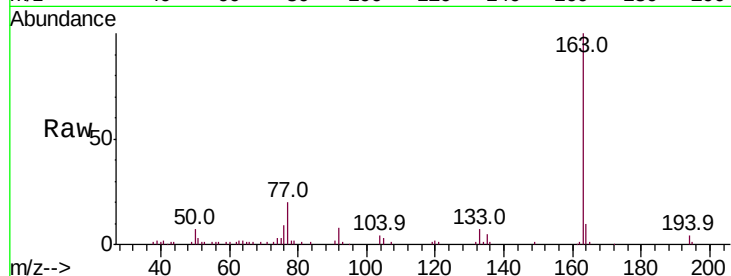
Tot Ion:163 Resp: 62044

Ion Ratio Lower Upper

163 100

194 4.2 3.0 4.4

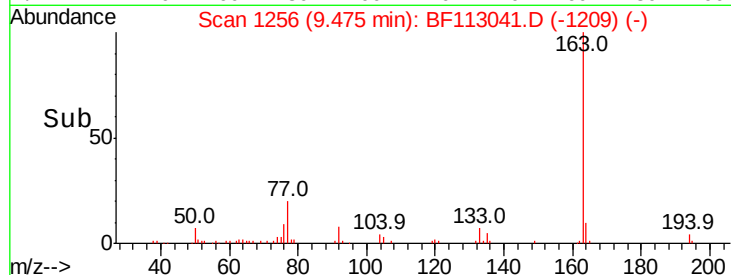
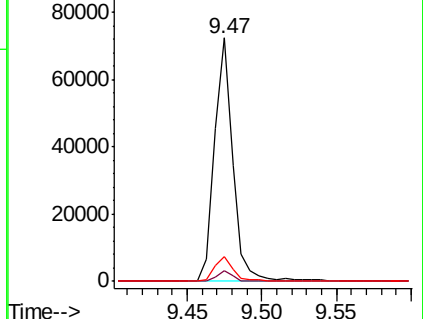
164 9.9 8.4 12.6



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



#51

2,6-Dinitrotoluene

Concen: 8.333 ng

RT: 9.76 min Scan# 1304

Delta R.T. 0.21 min

Lab File: BF113041.D

Acq: 13 Mar 2019 21:44

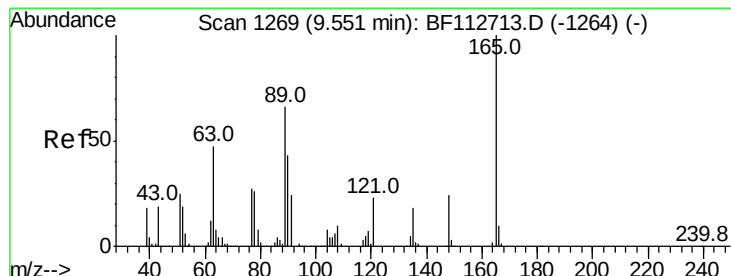
Tgt Ion:165 Resp: 40695

Ion Ratio Lower Upper

165 100

63 1.5 54.1 81.1#

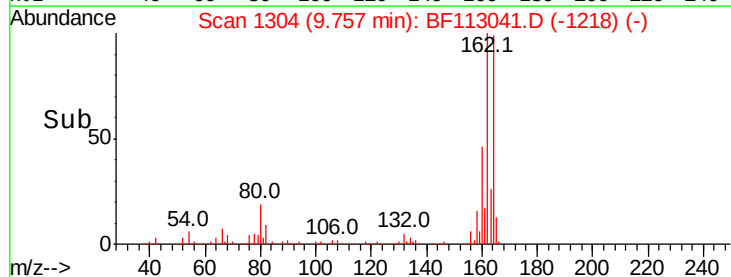
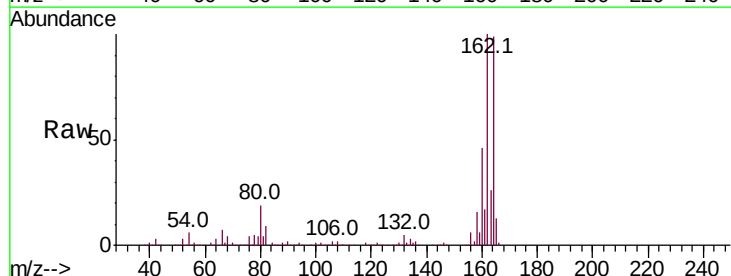
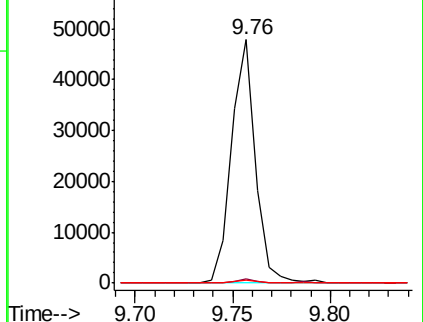
89 1.4 52.8 79.2#

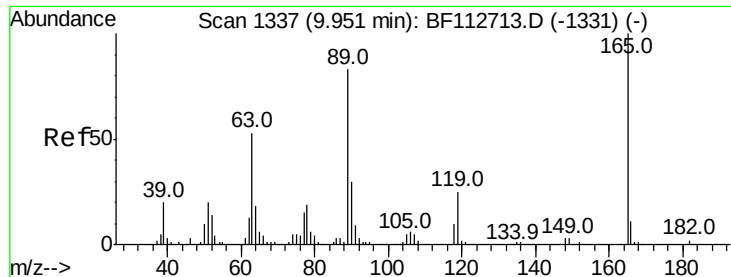


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

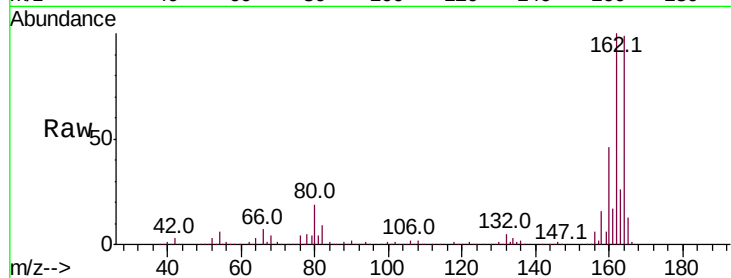




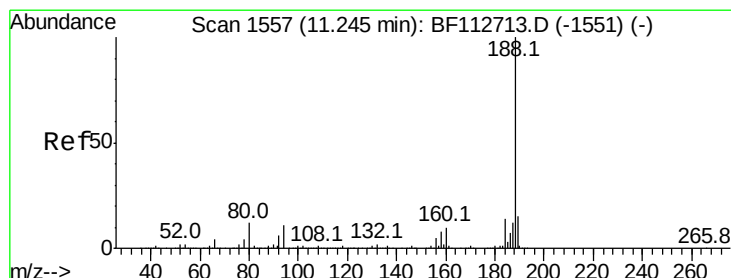
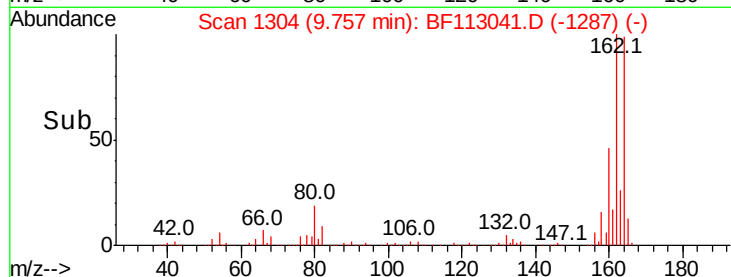
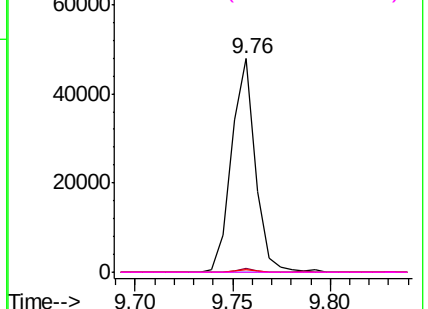
#57
2,4-Dinitrotoluene
Concen: 6.704 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.20 min
Lab File: BF113041.D
Acq: 13 Mar 2019 21:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.5	42.2	63.2#
89	1.4	66.2	99.4#
182	0.0	1.8	2.6#

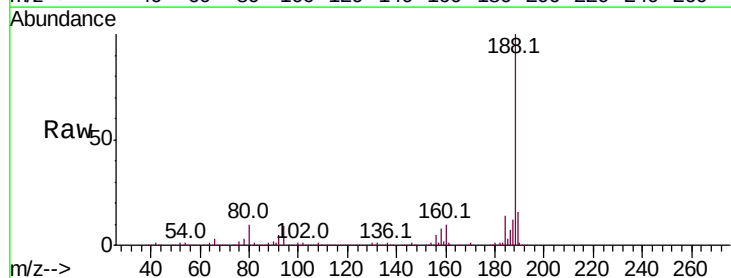


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

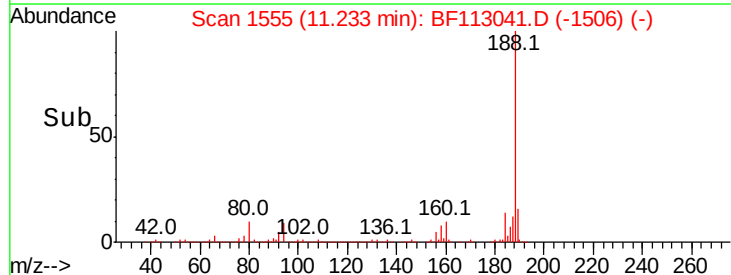
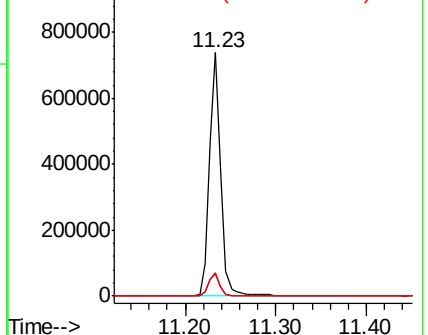


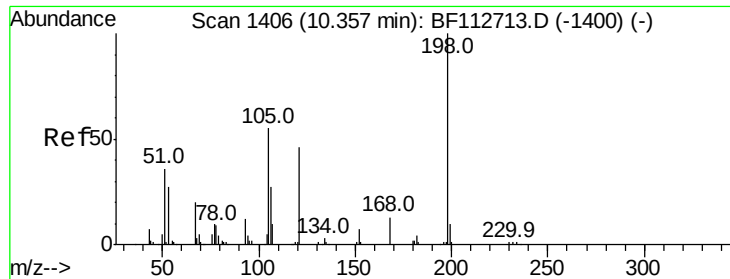
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.23 min Scan# 1555
Delta R.T. -0.01 min
Lab File: BF113041.D
Acq: 13 Mar 2019 21:44

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.2	9.0	13.4
80	9.5	9.2	13.8



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

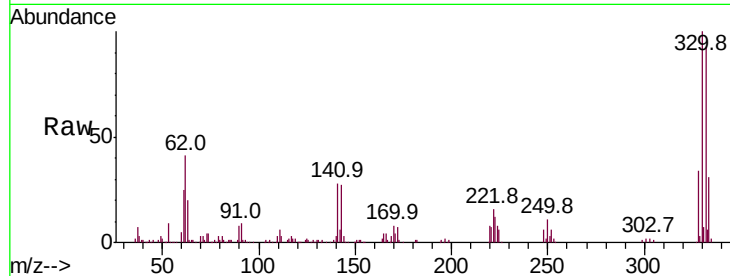




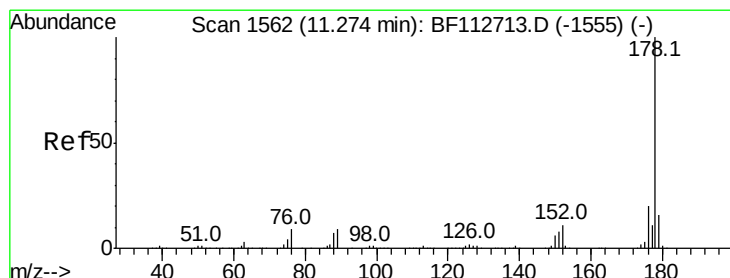
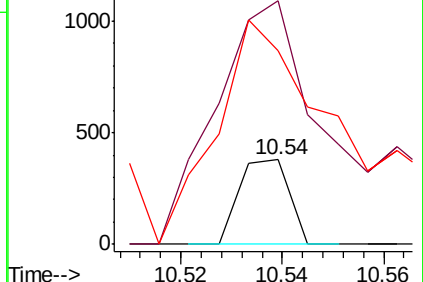
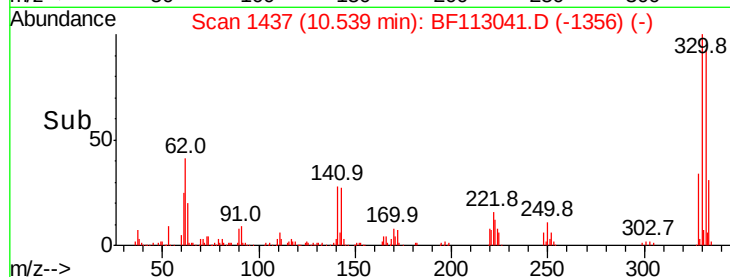
#65
 4,6-Dinitro-2-methylphenol
 Concen: 4.700 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. 0.18 min
 Lab File: BF113041.D
 Acq: 13 Mar 2019 21:44

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:198 Resp: 261
 Ion Ratio Lower Upper
 198 100
 51 288.6 43.8 83.8#
 105 229.4 36.5 76.5#

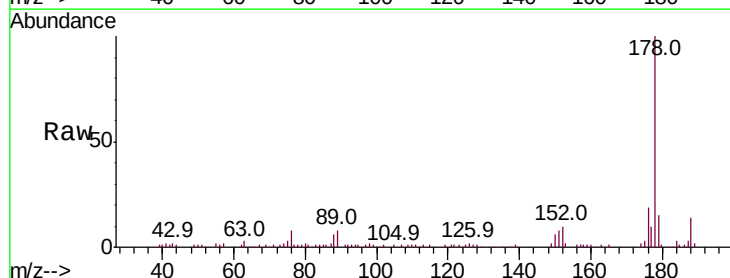


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

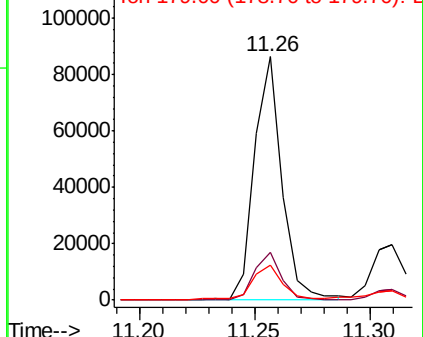
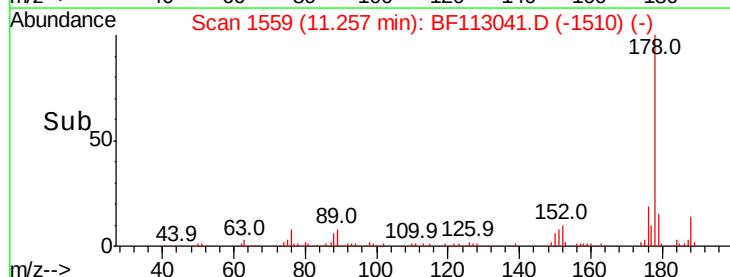


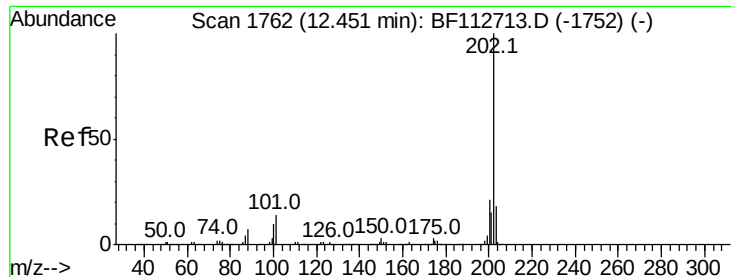
#71
 Phenanthrene
 Concen: 2.220 ng
 RT: 11.26 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: BF113041.D
 Acq: 13 Mar 2019 21:44

Tgt Ion:178 Resp: 72361
 Ion Ratio Lower Upper
 178 100
 176 19.4 16.3 24.5
 179 14.6 12.7 19.1



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





#75

Fluoranthene

Concen: 4.647 ng

RT: 12.44 min Scan# 1760

Delta R.T. -0.01 min

Lab File: BF113041.D

Acq: 13 Mar 2019 21:44

Instrument :

BNA_F

ClientSampleId :

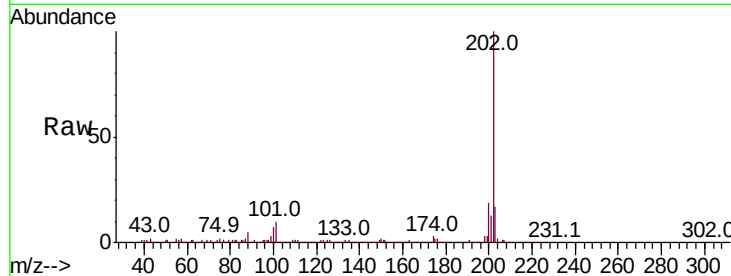
Tot Ion:202 Resp: 162285

Ion Ratio Lower Upper

202 100

101 10.5 0.0 33.8

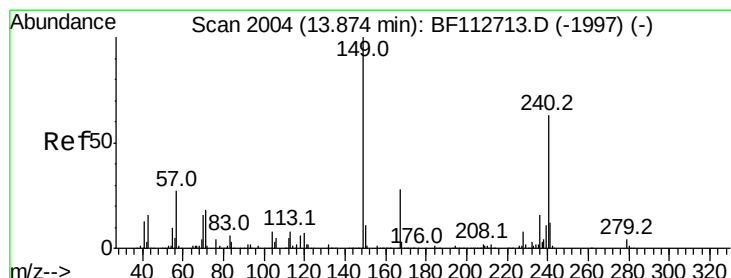
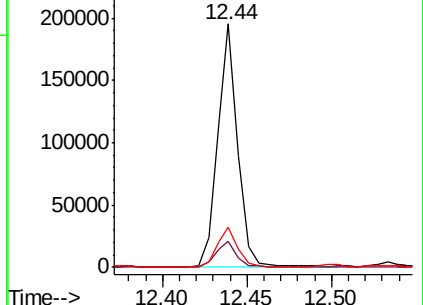
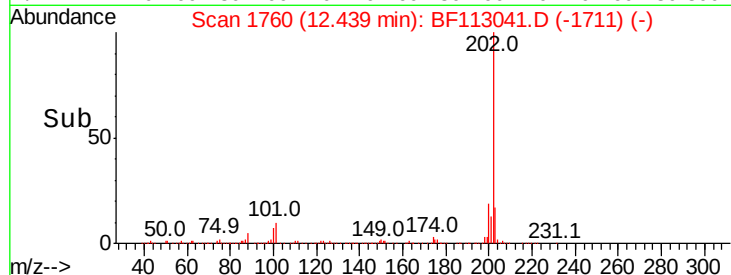
203 16.5 0.0 38.4



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.86 min Scan# 2001

Delta R.T. -0.01 min

Lab File: BF113041.D

Acq: 13 Mar 2019 21:44

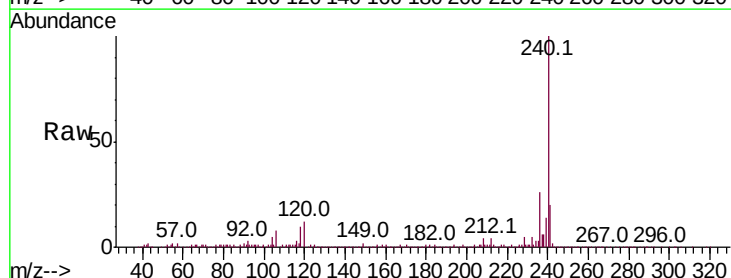
Tgt Ion:240 Resp: 523564

Ion Ratio Lower Upper

240 100

120 11.5 8.9 13.3

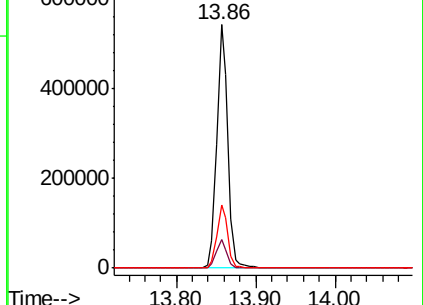
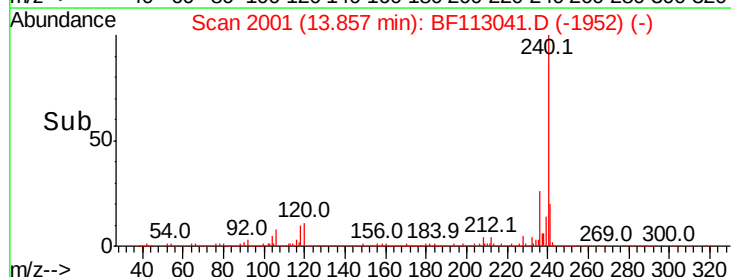
236 25.7 20.7 31.1

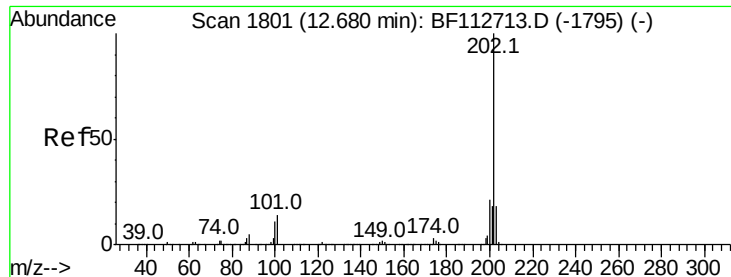


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 3.503 ng

RT: 12.66 min Scan# 1798

Delta R.T. -0.01 min

Lab File: BF113041.D

Acq: 13 Mar 2019 21:44

Instrument :

BNA_F

ClientSampleId :

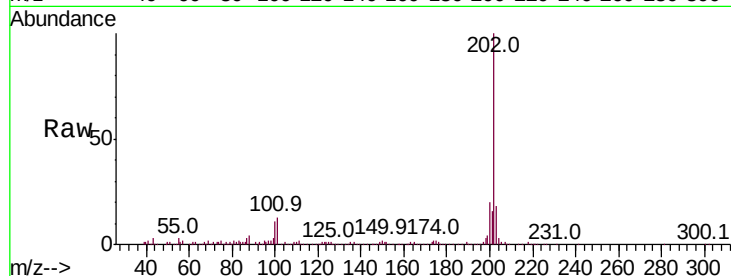
Tot Ion:202 Resp: 154634

Ion Ratio Lower Upper

202 100

200 19.8 17.0 25.4

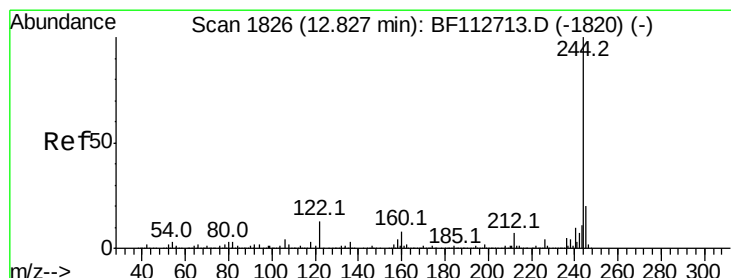
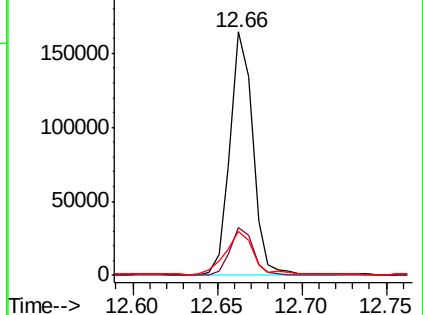
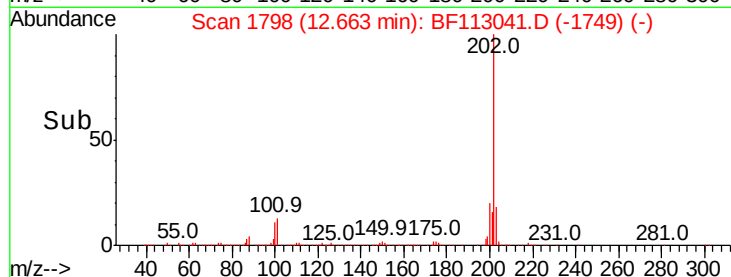
203 18.1 14.4 21.6



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



#79

Terphenyl-d14

Concen: 24.700 ng

RT: 12.81 min Scan# 1823

Delta R.T. -0.01 min

Lab File: BF113041.D

Acq: 13 Mar 2019 21:44

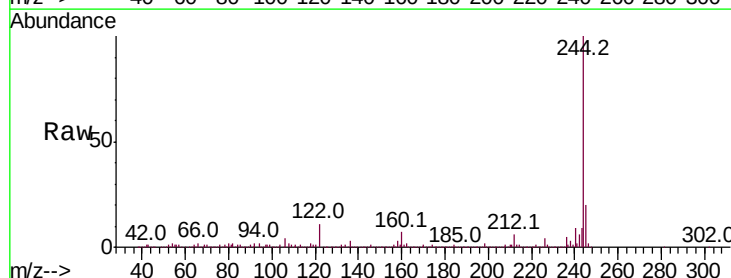
Tgt Ion:244 Resp: 667121

Ion Ratio Lower Upper

244 100

212 6.4 5.6 8.4

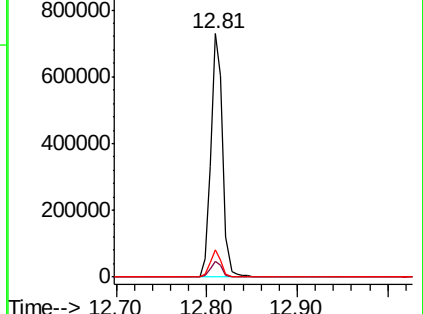
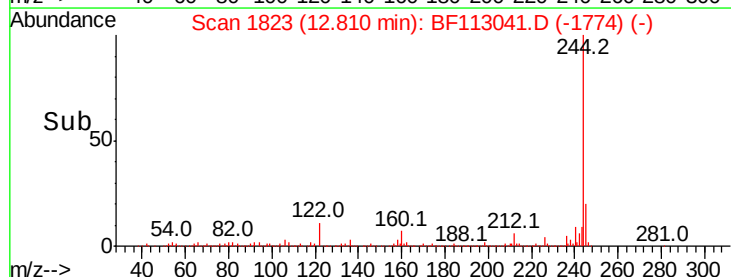
122 11.4 10.5 15.7

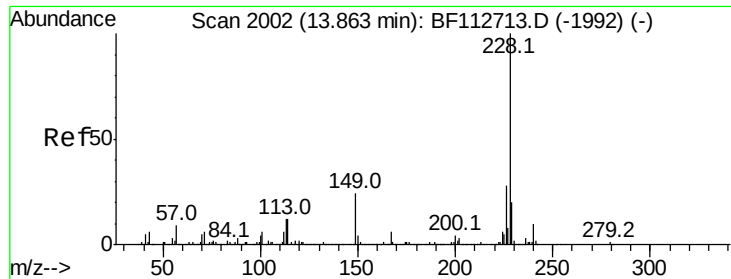


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 2.116 ng

RT: 13.84 min Scan# 1999

Delta R.T. -0.01 min

Lab File: BF113041.D

Acq: 13 Mar 2019 21:44

Instrument :

BNA_F

ClientSampled :

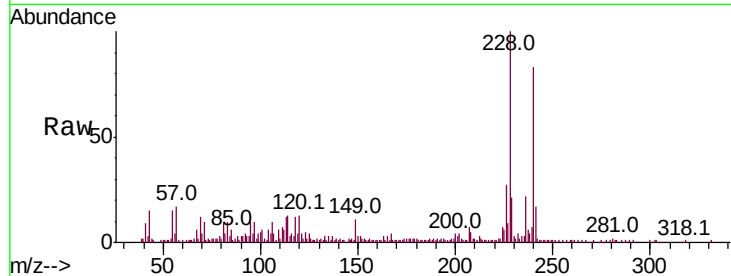
Tot Ion:228 Resp: 76784

Ion Ratio Lower Upper

228 100

226 27.3 22.2 33.4

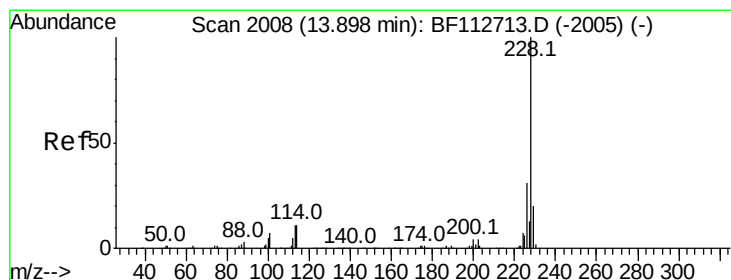
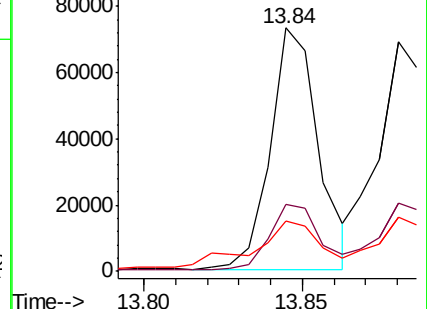
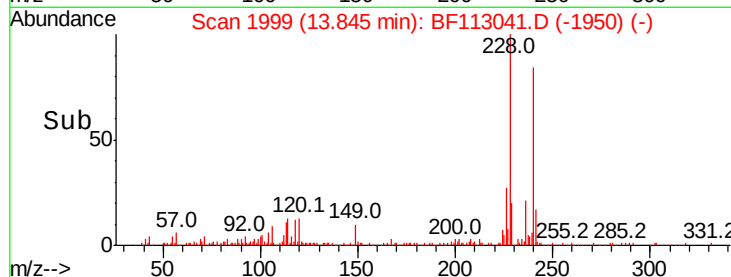
229 20.7 16.0 24.0



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



#83

Chrysene

Concen: 2.121 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.02 min

Lab File: BF113041.D

Acq: 13 Mar 2019 21:44

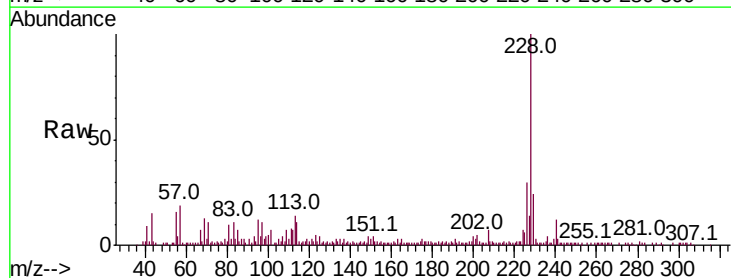
Tgt Ion:228 Resp: 75403

Ion Ratio Lower Upper

228 100

226 30.0 24.9 37.3

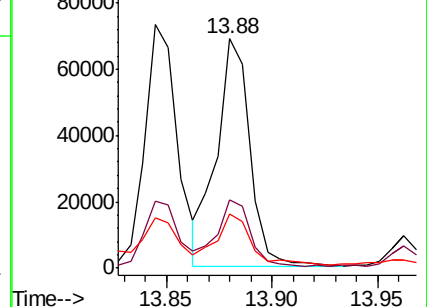
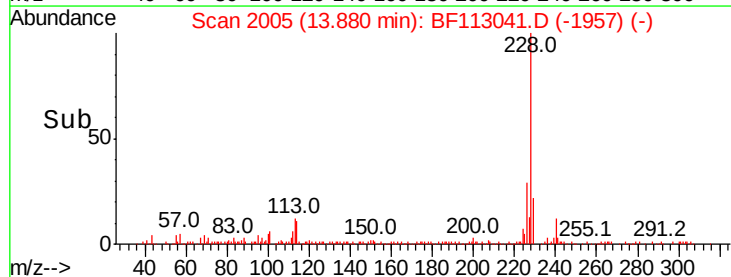
229 23.8 16.3 24.5

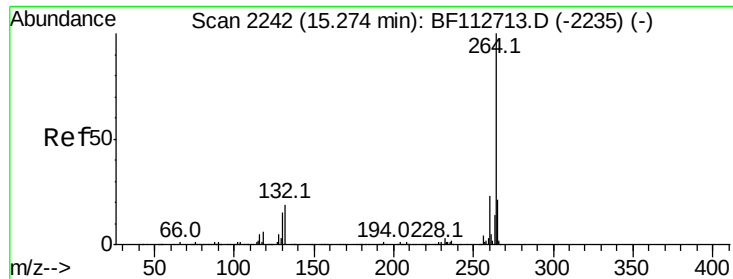


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

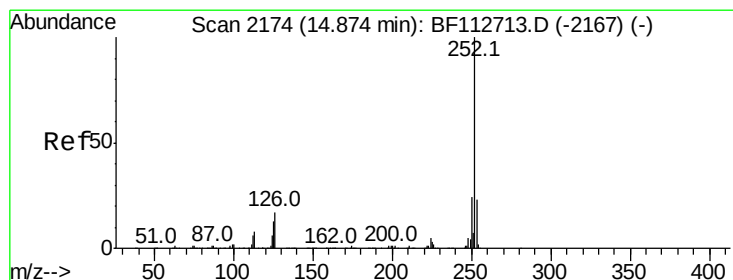
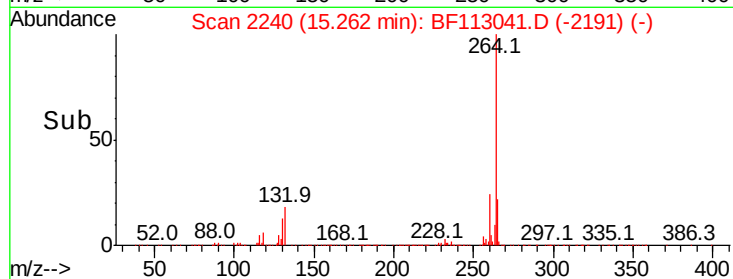
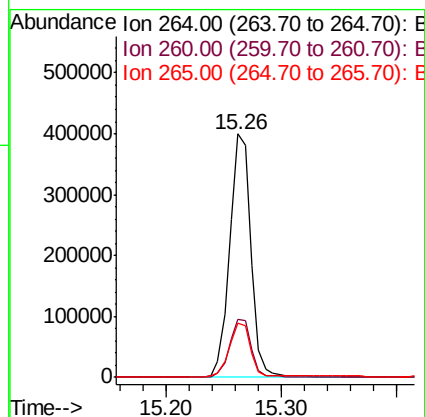
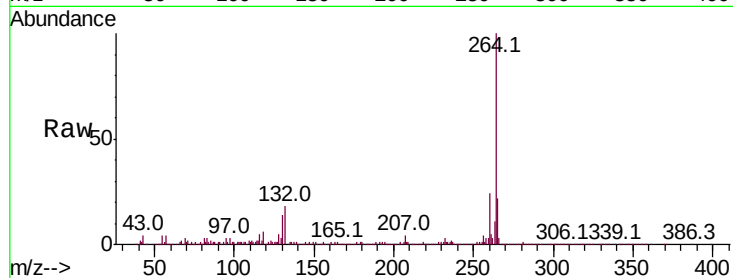




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.26 min Scan# 2240
Delta R.T. -0.01 min
Lab File: BF113041.D
Acq: 13 Mar 2019 21:44

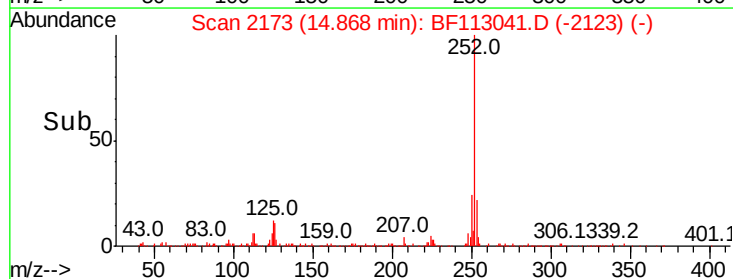
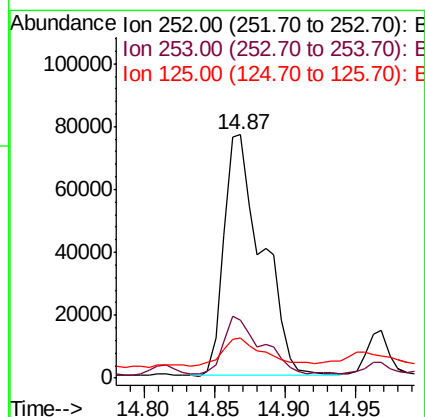
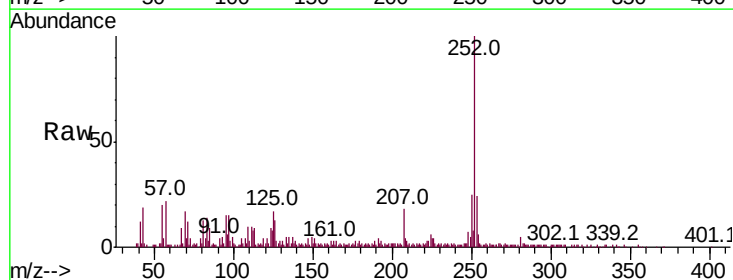
Instrument :
BNA_F
ClientSampleId :

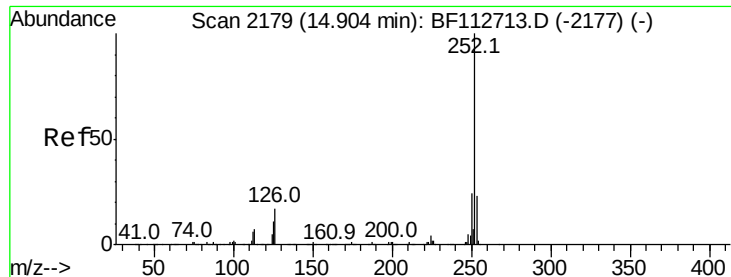
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.7	28.1
265	22.4	17.2	25.8



#88
Benzo(b)fluoranthene
Concen: 4.416 ng
RT: 14.87 min Scan# 2173
Delta R.T. -0.01 min
Lab File: BF113041.D
Acq: 13 Mar 2019 21:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.0	27.0
125	16.7	10.2	15.2

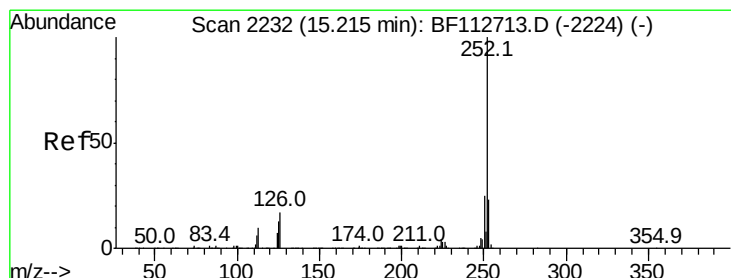
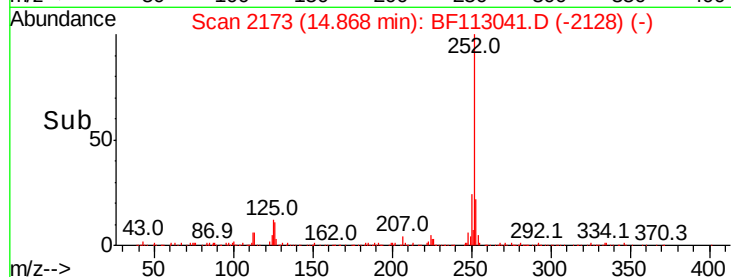
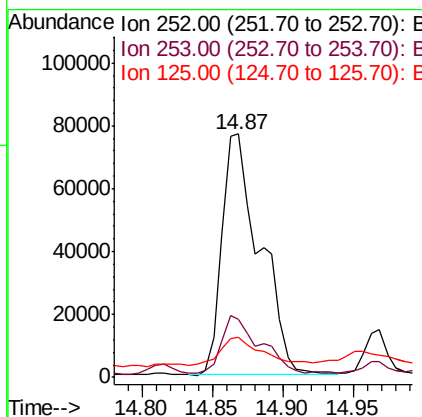
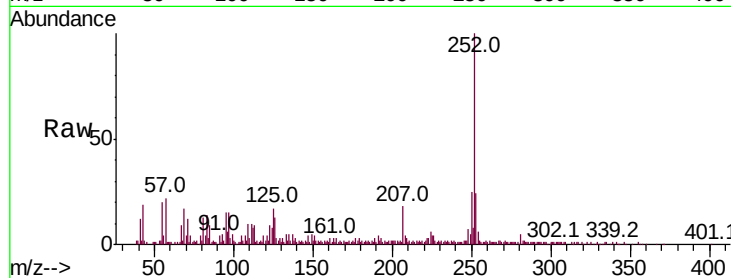




#89
Benzo(k)fluoranthene
Concen: 4.875 ng
RT: 14.87 min Scan# 2173
Delta R.T. -0.04 min
Lab File: BF113041.D
Acq: 13 Mar 2019 21:44

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 144508
Ion Ratio Lower Upper
252 100
253 23.6 18.2 27.2
125 16.7 9.8 14.6#



#90
Benzo(a)pyrene
Concen: 2.679 ng
RT: 15.20 min Scan# 2230
Delta R.T. -0.01 min
Lab File: BF113041.D
Acq: 13 Mar 2019 21:44

Tgt Ion:252 Resp: 77546
Ion Ratio Lower Upper
252 100
253 23.9 18.0 27.0
125 15.2 10.7 16.1

