

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032219\
 Data File : BF113242.D
 Acq On : 22 Mar 2019 18:48
 Operator : JU/SJ
 Sample : K2050-04
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

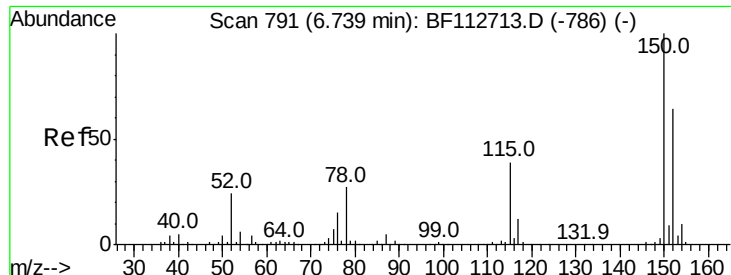
Quant Time: Mar 22 23:28:12 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 13 03:42:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	157402	20.00	ng	-0.02
21) Naphthalene-d8	8.00	136	633696	20.00	ng	-0.02
39) Acenaphthene-d10	9.75	164	303306	20.00	ng	-0.02
64) Phenanthrene-d10	11.23	188	543667	20.00	ng	-0.02
76) Chrysene-d12	13.86	240	353308	20.00	ng	0.00
87) Perylene-d12	15.27	264	430881	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.34	112	1100595	108.77	ng	0.00
7) Phenol-d6	6.37	99	1453409	114.34	ng	0.00
23) Nitrobenzene-d5	7.28	82	959298	90.58	ng	-0.02
42) 2,4,6-Tribromophenol	10.54	330	452811	140.63	ng	-0.01
45) 2-Fluorobiphenyl	9.07	172	1716793	97.57	ng	-0.02
79) Terphenyl-d14	12.81	244	1417051	77.75	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.37	94	40469	2.728	ng	# 73
19) n-Nitroso-di-n-propylamine	7.28	70	126384	15.699	ng	# 77
25) Isophorone	7.28	82	941643	41.273	ng	# 66
49) Acenaphthylene	9.61	152	72535	2.212	ng	96
50) Dimethylphthalate	9.46	163	193337	8.645	ng	98
57) 2,4-Dinitrotoluene	9.75	165	39783	6.872	ng	# 18
65) 4,6-Dinitro-2-methylphenol	10.53	198	651	4.876	ng	# 1
67) 4-Bromophenyl-phenylether	10.54	248	25438	4.442	ng	# 1
71) Phenanthrene	11.25	178	195151	7.215	ng	96
72) Anthracene	11.30	178	117276	4.142	ng	96
73) Carbazole	11.46	167	93046	3.369	ng	98
75) Fluoranthene	12.44	202	1098464	37.904	ng	97
78) Pyrene	12.67	202	1029498	34.565	ng	99
81) Benzo(a)anthracene	13.89	228	634020	25.892	ng	96
83) Chrysene	13.89	228	634020	26.434	ng	98
86) Indeno(1,2,3-cd)pyrene	16.63	276	307767	15.051	ng	# 90
88) Benzo(b)fluoranthene	14.87	252	1346427	48.310	ng	98
89) Benzo(k)fluoranthene	14.87	252	1346427	53.334	ng	98
90) Benzo(a)pyrene	15.16	252	500096	20.286	ng	99
92) Benzo(a,h,i)perylene	17.04	276	264613	12.527	ng	# 94

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

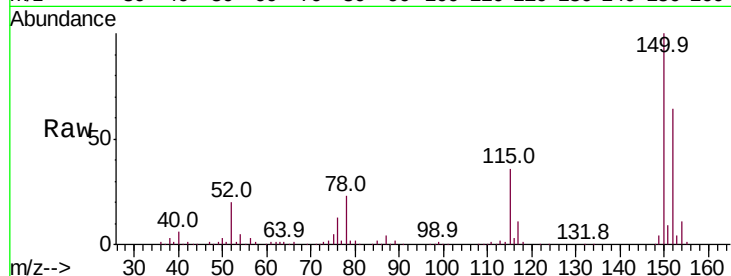


#1

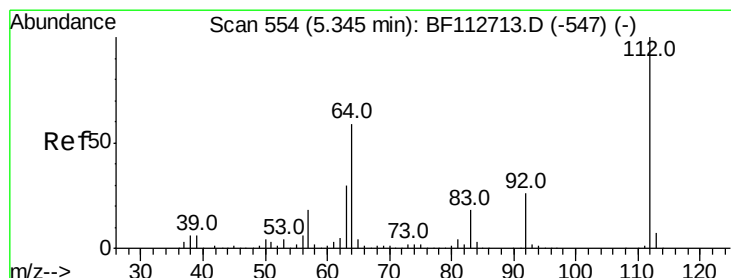
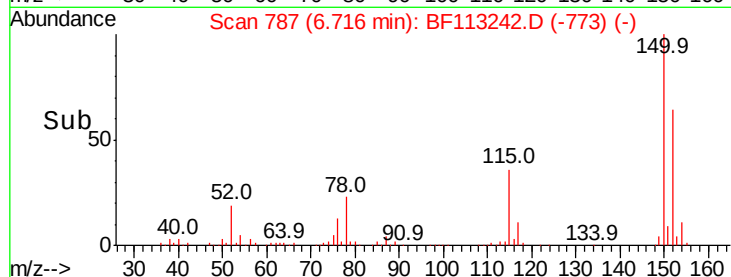
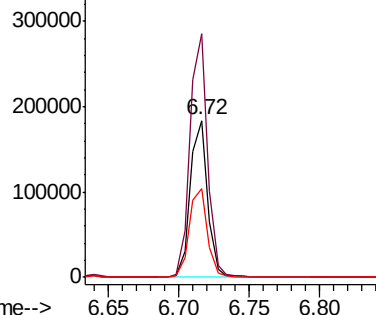
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. -0.02 min
Lab File: BF113242.D
Acq: 22 Mar 2019 18:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 157402
Ion Ratio Lower Upper
152 100
150 155.3 124.2 186.2
115 56.3 48.2 72.4



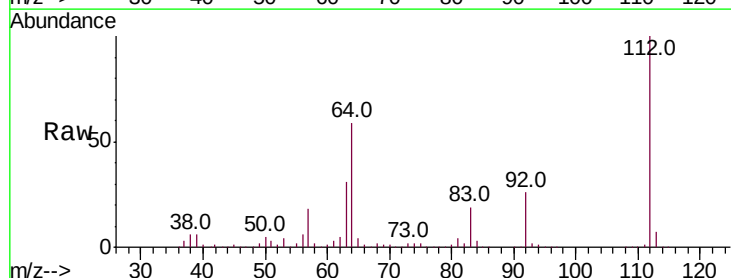
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



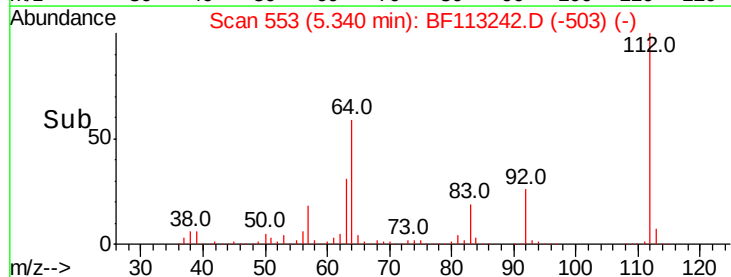
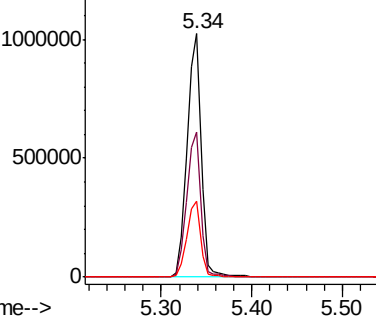
#5

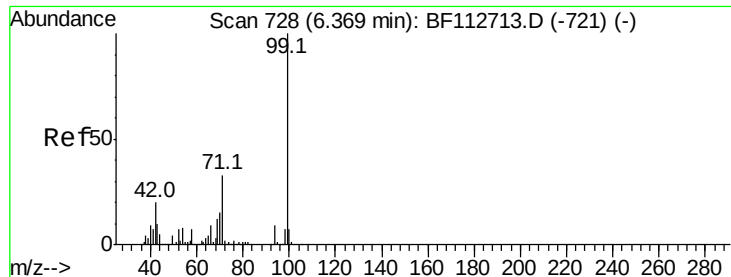
2-Fluorophenol
Concen: 108.768 ng
RT: 5.34 min Scan# 553
Delta R.T. -0.01 min
Lab File: BF113242.D
Acq: 22 Mar 2019 18:48

Tgt Ion:112 Resp: 1100595
Ion Ratio Lower Upper
112 100
64 59.4 47.6 71.4
63 31.0 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: 114.344 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113242.D

Acq: 22 Mar 2019 18:48

Instrument :

BNA_F

ClientSampleId :

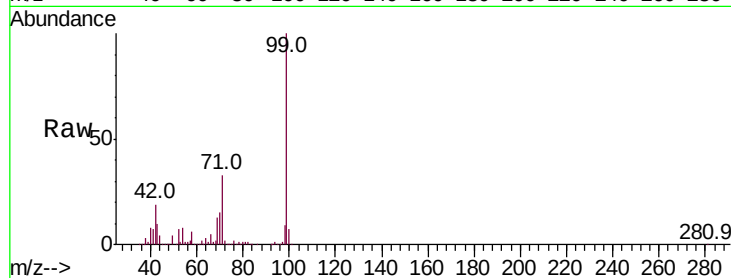
Tot Ion: 99 Resp: 1453409

Ion Ratio Lower Upper

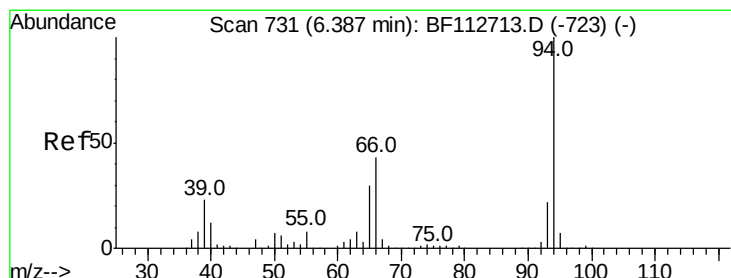
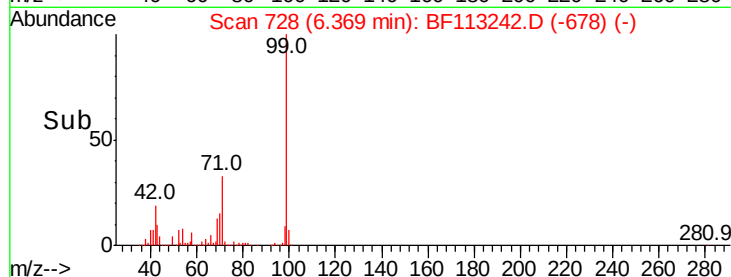
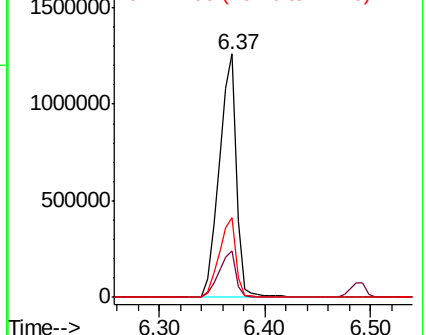
99 100

42 19.1 16.3 24.5

71 32.9 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



#10

Phenol

Concen: 2.728 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.02 min

Lab File: BF113242.D

Acq: 22 Mar 2019 18:48

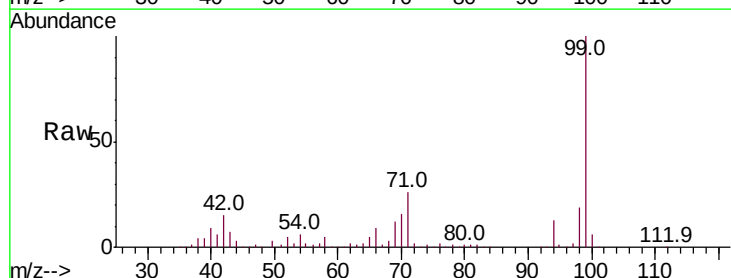
Tgt Ion: 94 Resp: 40469

Ion Ratio Lower Upper

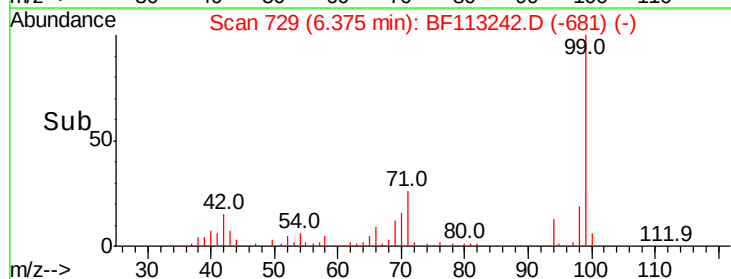
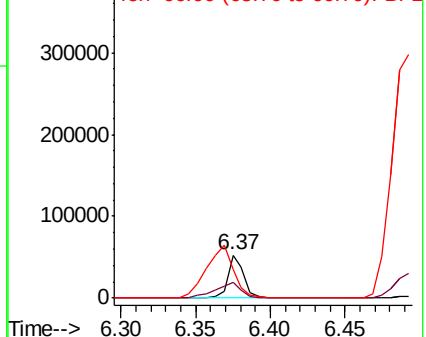
94 100

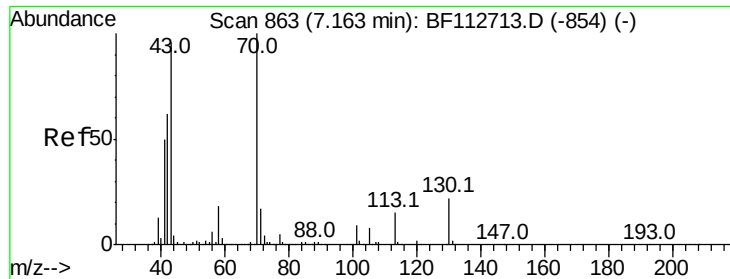
65 36.1 10.5 50.5

66 67.3 22.6 62.6#



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

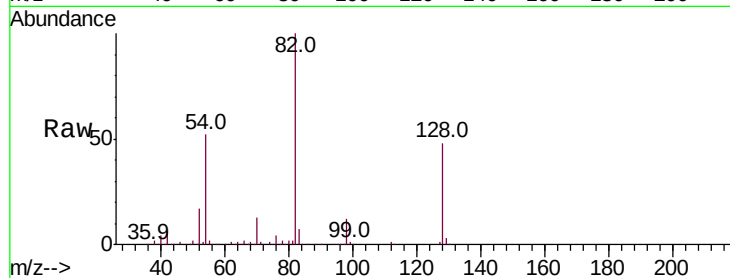




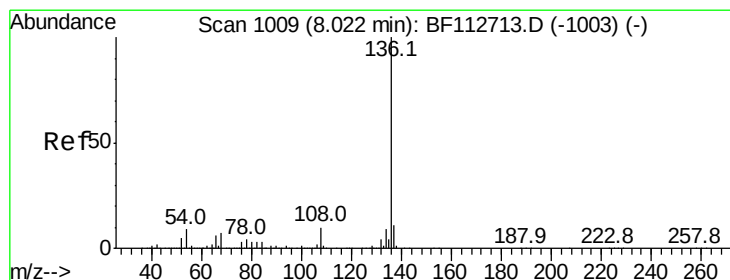
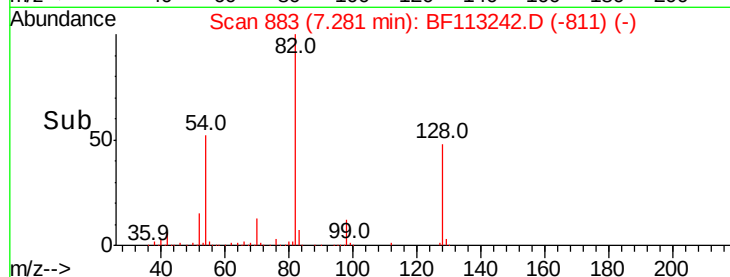
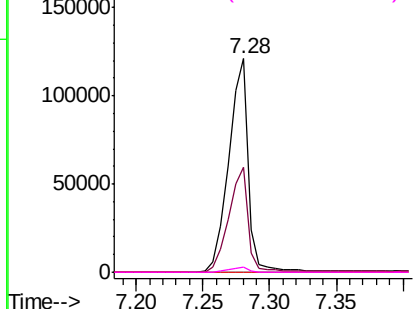
#19
n-Nitroso-di-n-propylamine
Concen: 15.699 ng
RT: 7.28 min Scan# 883
Delta R.T. 0.12 min
Lab File: BF113242.D
Acq: 22 Mar 2019 18:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 70 Resp: 126384
Ion Ratio Lower Upper
70 100
42 49.3 49.9 74.9#
101 0.0 7.4 11.2#
130 2.3 17.4 26.2#



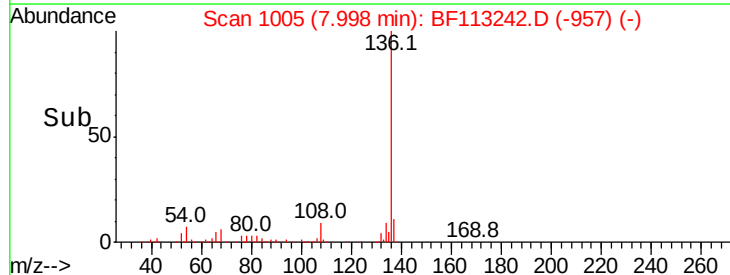
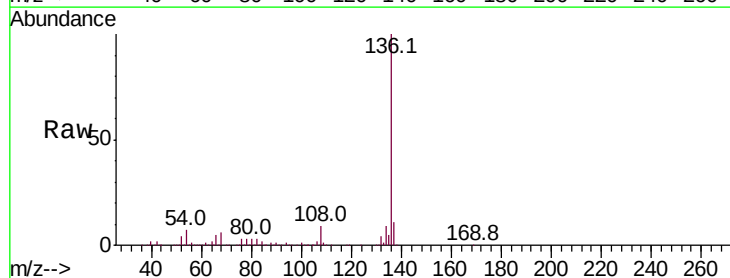
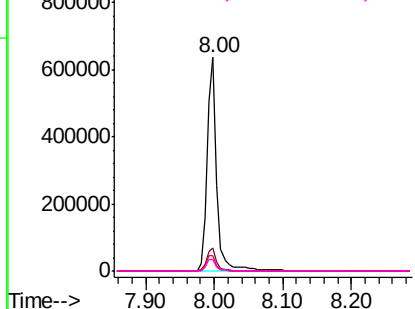
Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): E
Ion 130.00 (129.70 to 130.70): E

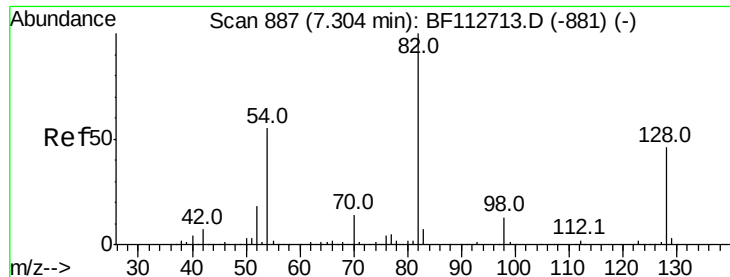


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.00 min Scan# 1005
Delta R.T. -0.02 min
Lab File: BF113242.D
Acq: 22 Mar 2019 18:48

Tgt Ion: 136 Resp: 633696
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 7.5 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: 90.584 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.02 min

Lab File: BF113242.D

Acq: 22 Mar 2019 18:48

Instrument :

BNA_F

ClientSampled :

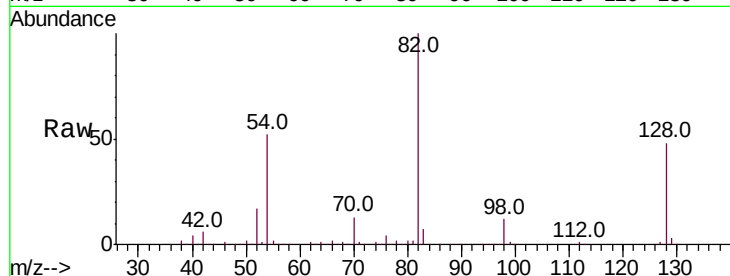
Tot Ion: 82 Resp: 959298

Ion Ratio Lower Upper

82 100

128 48.2 36.3 54.5

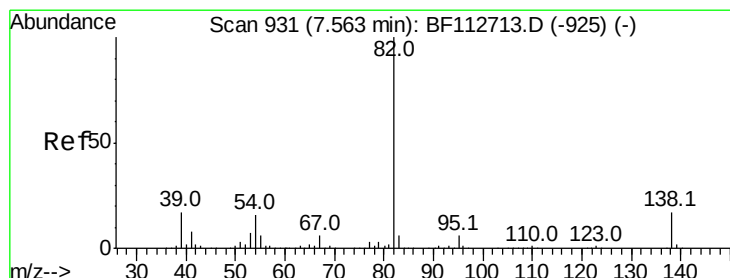
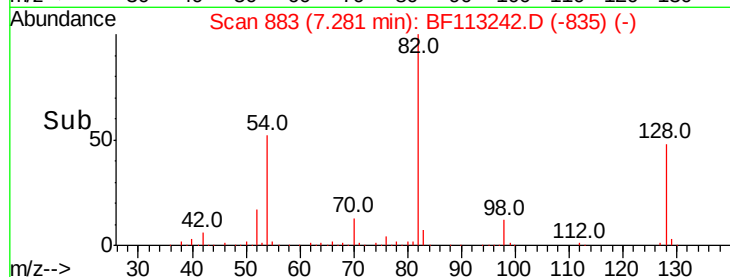
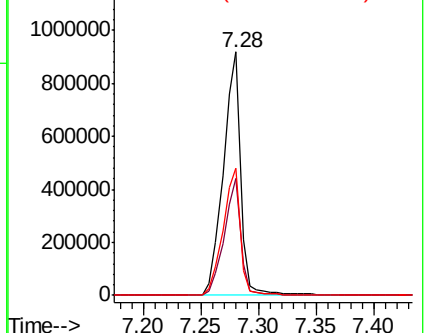
54 52.2 43.7 65.5



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#25

Isophorone

Concen: 41.273 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.28 min

Lab File: BF113242.D

Acq: 22 Mar 2019 18:48

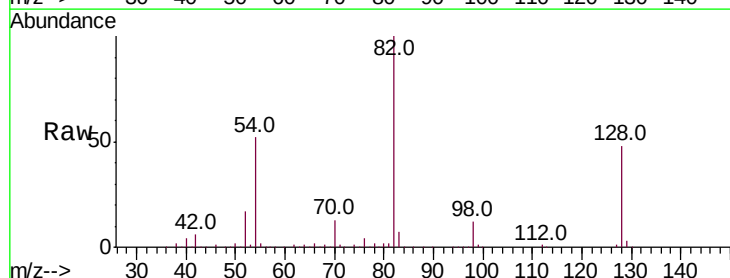
Tgt Ion: 82 Resp: 941643

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

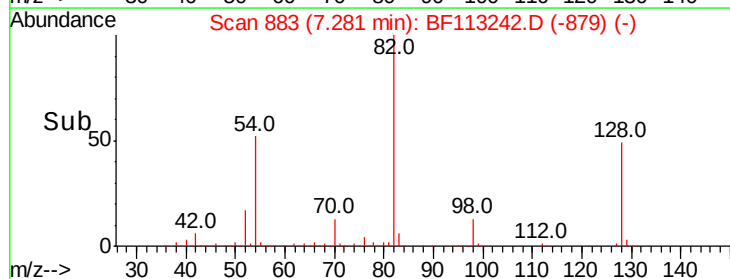
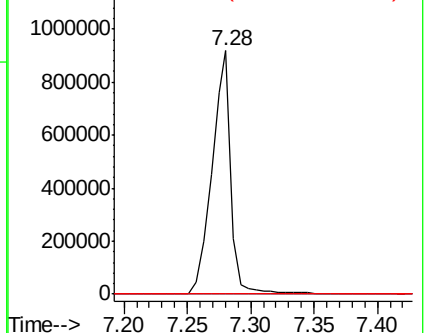
138 0.0 13.8 20.8#

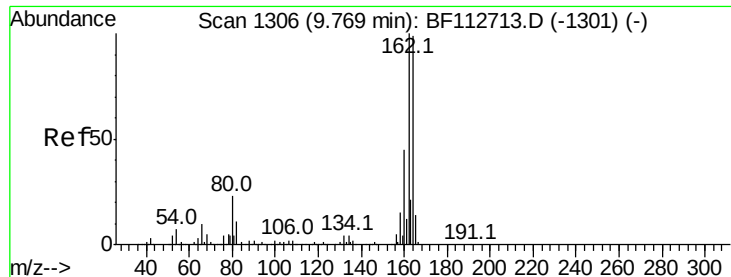


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1

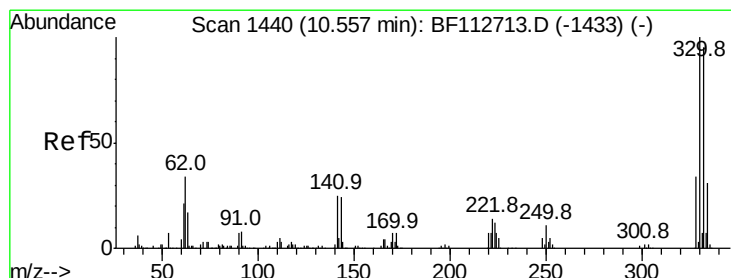
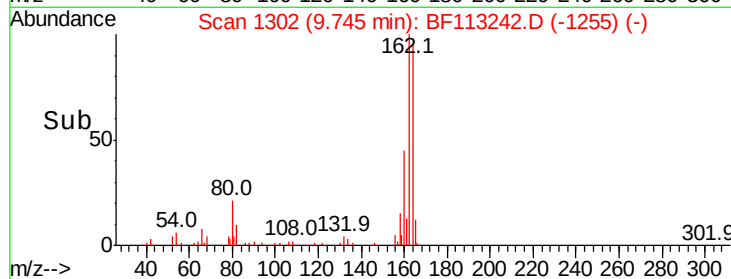
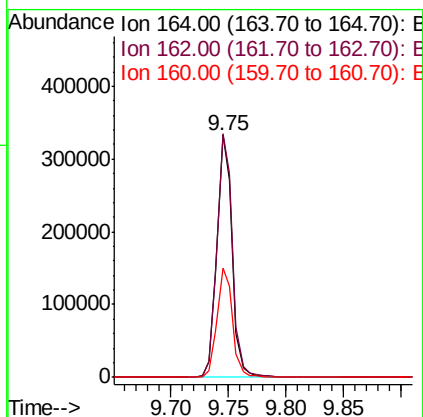
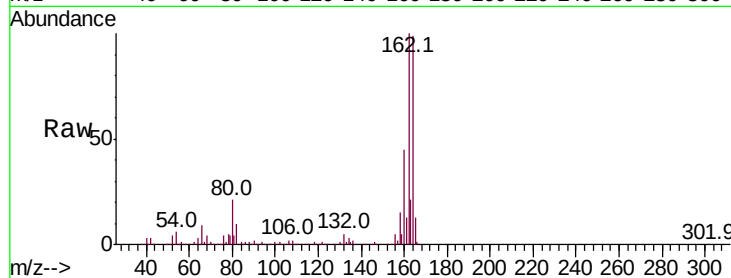




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.75 min Scan# 1302
 Delta R.T. -0.02 min
 Lab File: BF113242.D
 Acq: 22 Mar 2019 18:48

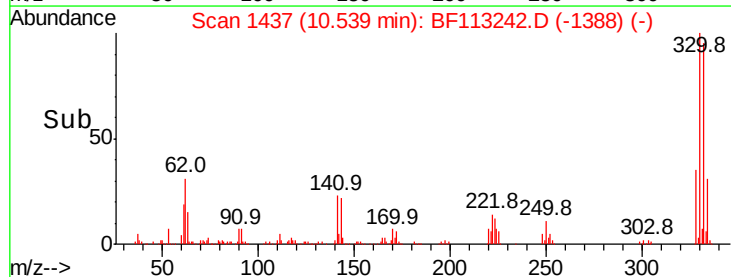
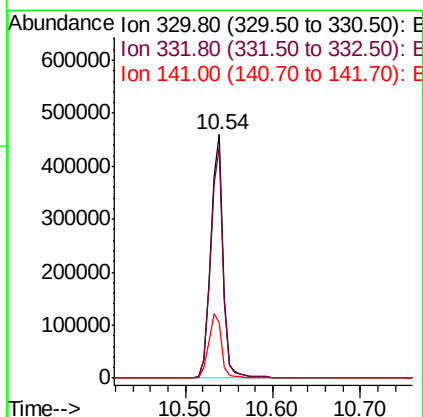
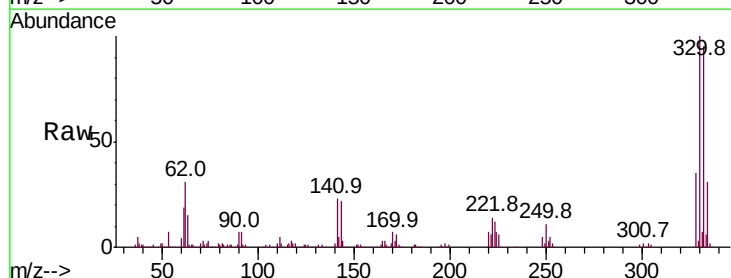
Instrument :
 BNA_F
 ClientSampled :

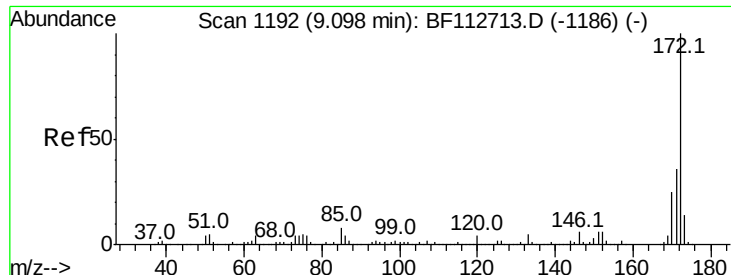
Tot Ion	Ratio	Lower	Upper
164	100		
162	100.7	80.6	120.8
160	45.3	36.0	54.0



#42
 2,4,6-Tribromophenol
 Concen: 140.626 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF113242.D
 Acq: 22 Mar 2019 18:48

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.2	114.4
141	27.9	27.0	40.6

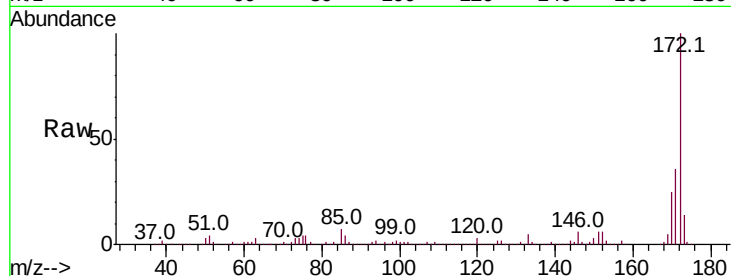




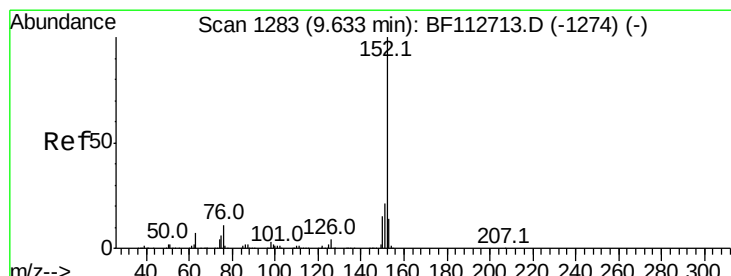
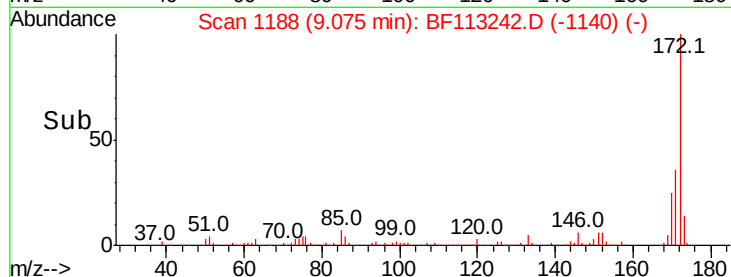
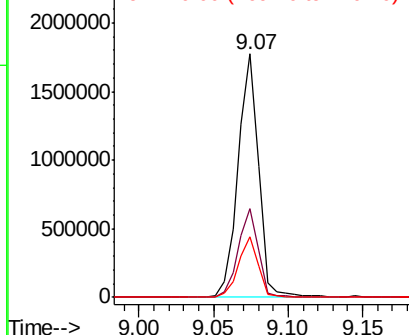
#45
2-Fluorobiphenyl
Concen: 97.567 ng
RT: 9.07 min Scan# 1188
Delta R.T. -0.02 min
Lab File: BF113242.D
Acq: 22 Mar 2019 18:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 1716793
Ion Ratio Lower Upper
172 100
171 36.4 29.0 43.4
170 25.1 20.0 30.0

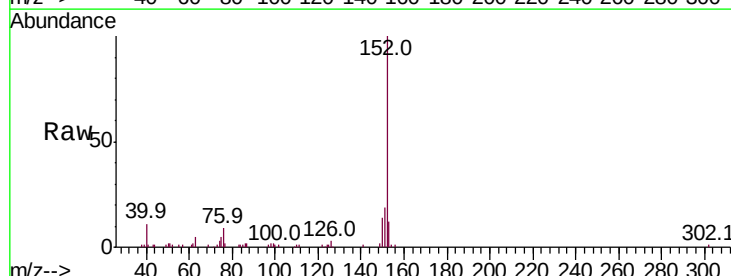


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

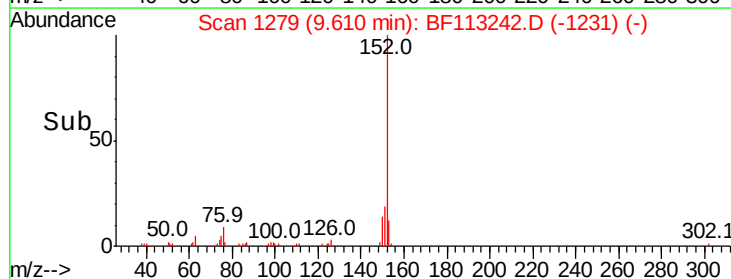
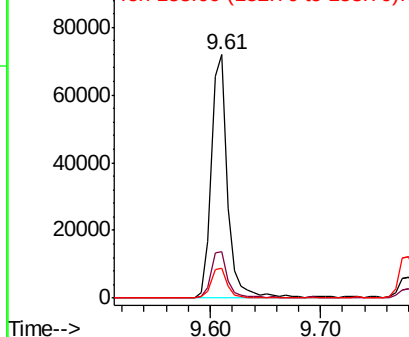


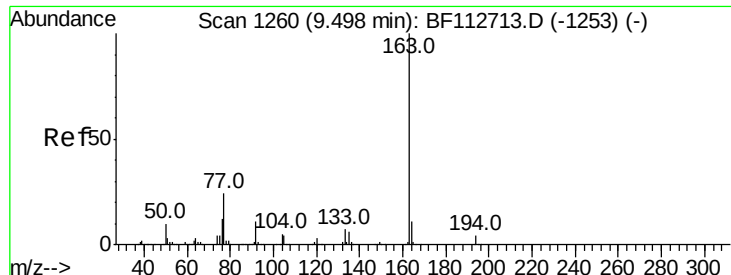
#49
Acenaphthylene
Concen: 2.212 ng
RT: 9.61 min Scan# 1279
Delta R.T. -0.02 min
Lab File: BF113242.D
Acq: 22 Mar 2019 18:48

Tgt Ion:152 Resp: 72535
Ion Ratio Lower Upper
152 100
151 19.3 16.9 25.3
153 12.2 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#50

Dimethylphthalate

Concen: 8.645 ng

RT: 9.46 min Scan# 1254

Delta R.T. -0.04 min

Lab File: BF113242.D

Acq: 22 Mar 2019 18:48

Instrument :

BNA_F

ClientSampled :

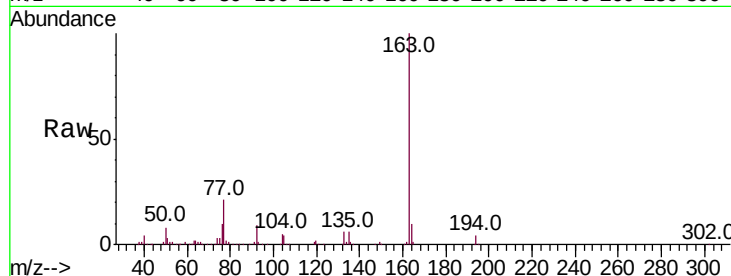
Tot Ion:163 Resp: 193337

Ion Ratio Lower Upper

163 100

194 4.0 3.0 4.4

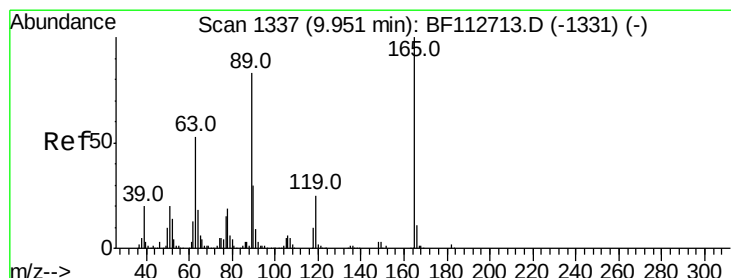
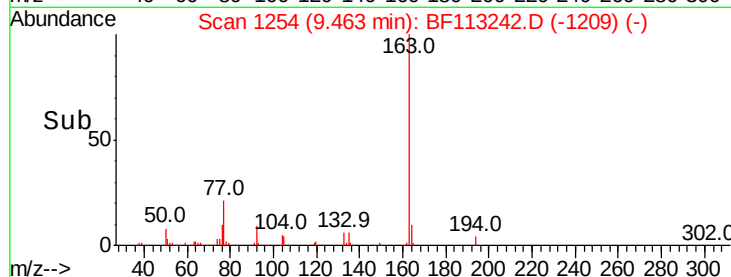
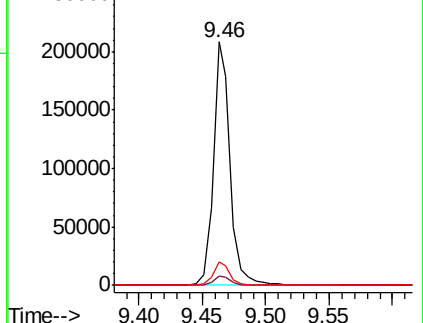
164 9.8 8.4 12.6



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



#57

2,4-Dinitrotoluene

Concen: 6.872 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.21 min

Lab File: BF113242.D

Acq: 22 Mar 2019 18:48

Tgt Ion:165 Resp: 39783

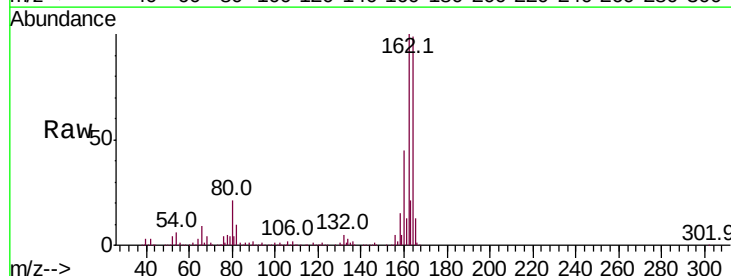
Ion Ratio Lower Upper

165 100

63 1.6 42.2 63.2#

89 1.4 66.2 99.4#

182 0.0 1.8 2.6#

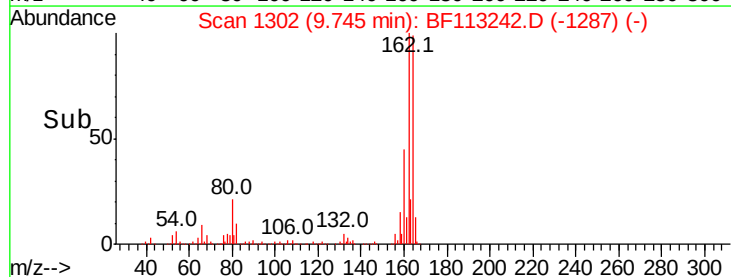
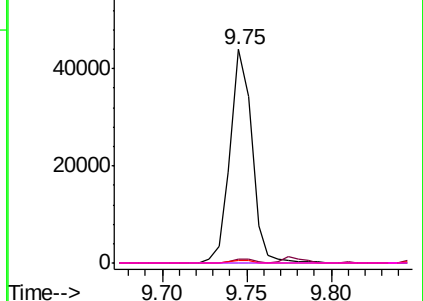


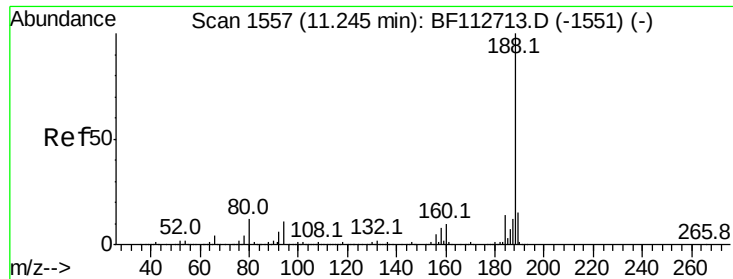
Abundance Ion 165.00 (164.70 to 165.70): E

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# 1554

Delta R.T. -0.02 min

Lab File: BF113242.D

Acq: 22 Mar 2019 18:48

Instrument :

BNA_F

ClientSampleId :

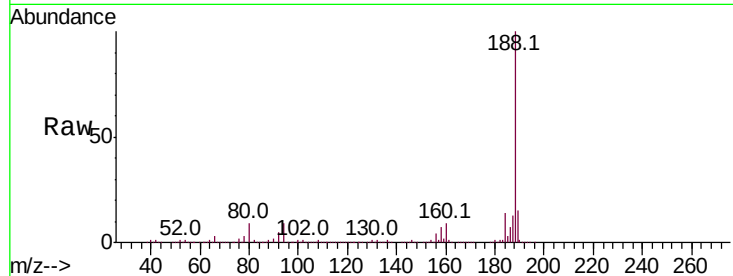
Tot Ion:188 Resp: 543667

Ion Ratio Lower Upper

188 100

94 9.0 9.0 13.4#

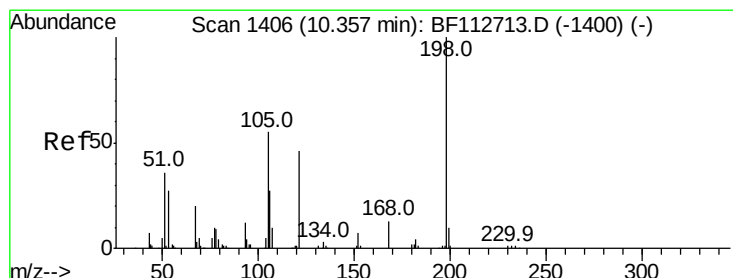
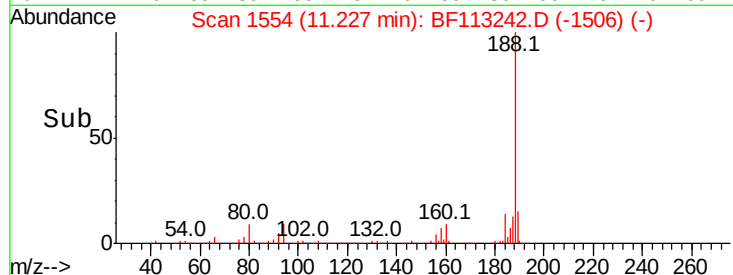
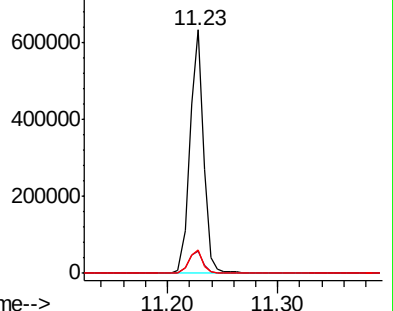
80 9.4 9.2 13.8



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: 4.876 ng

RT: 10.53 min Scan# 1436

Delta R.T. 0.17 min

Lab File: BF113242.D

Acq: 22 Mar 2019 18:48

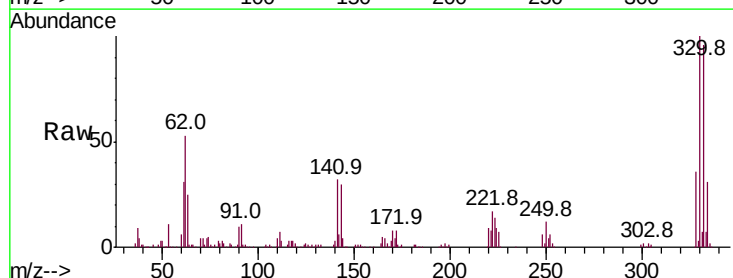
Tgt Ion:198 Resp: 651

Ion Ratio Lower Upper

198 100

51 241.2 43.8 83.8#

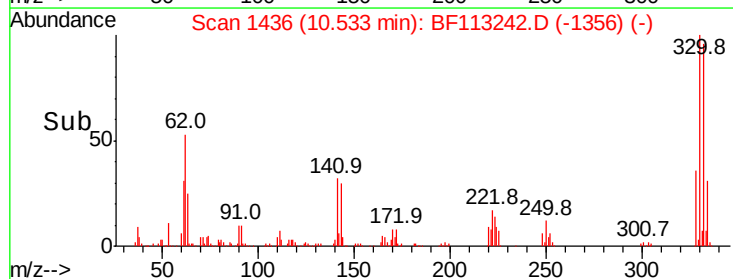
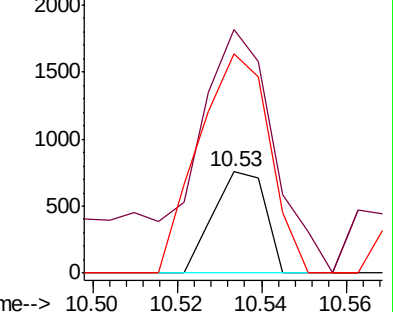
105 217.4 36.5 76.5#

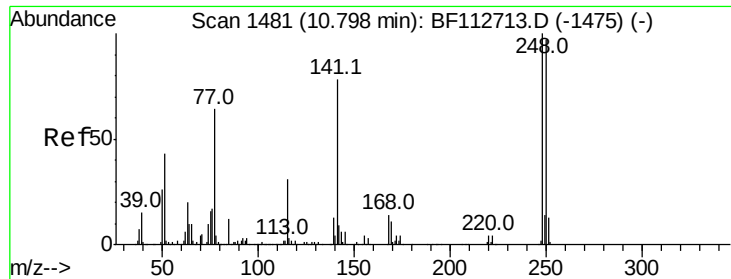


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

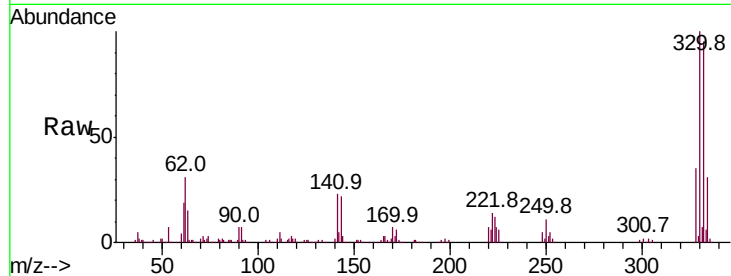




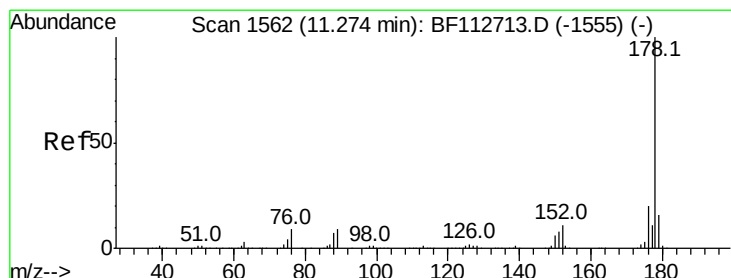
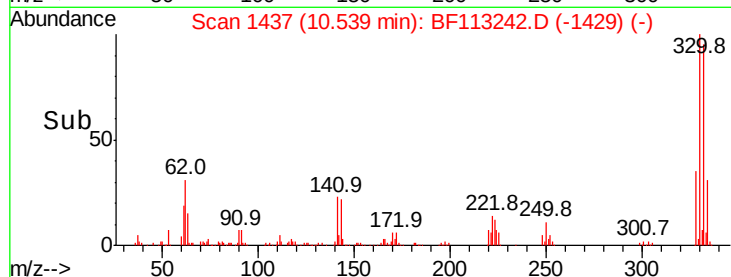
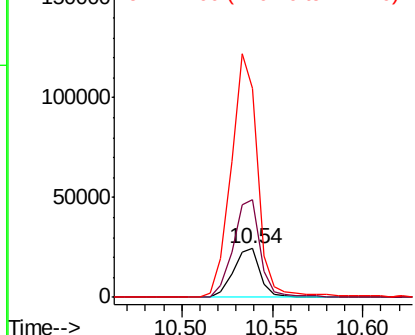
#67
 4-Bromophenyl-phenylether
 Concen: 4.442 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.25 min
 Lab File: BF113242.D
 Acq: 22 Mar 2019 18:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 25438
 Ion Ratio Lower Upper
 248 100
 250 200.0 77.5 116.3#
 141 427.9 62.4 93.6#

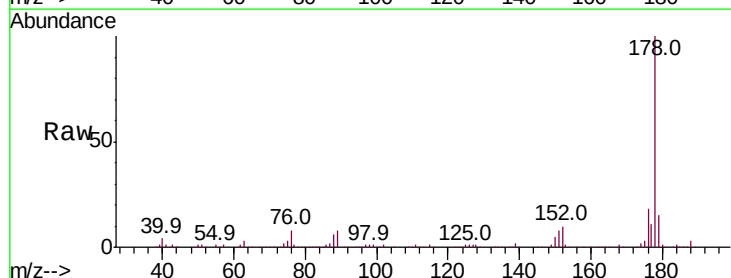


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

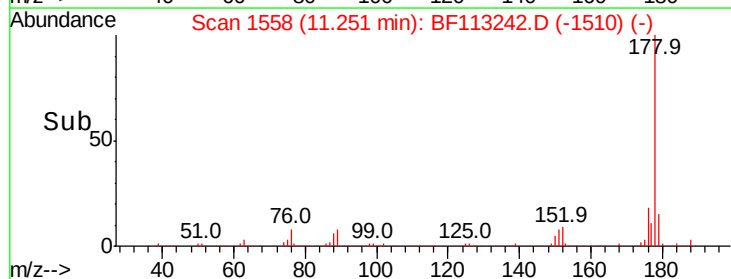
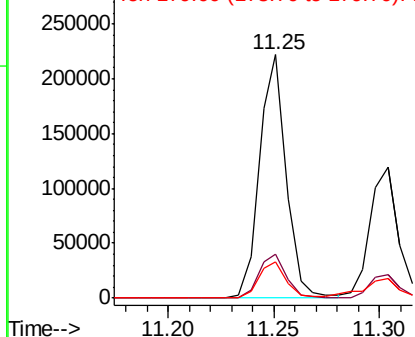


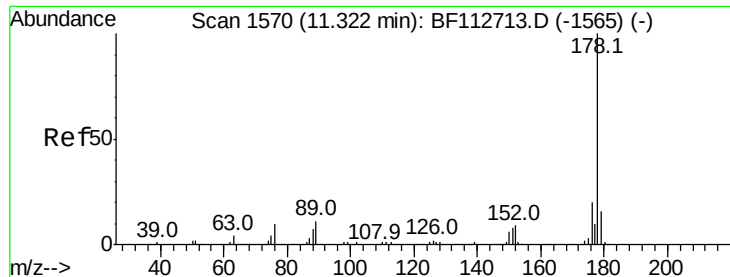
#71
 Phenanthrene
 Concen: 7.215 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. -0.02 min
 Lab File: BF113242.D
 Acq: 22 Mar 2019 18:48

Tgt Ion:178 Resp: 195151
 Ion Ratio Lower Upper
 178 100
 176 18.1 16.3 24.5
 179 14.7 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





#72

Anthracene

Concen: 4.142 ng

RT: 11.30 min Scan# 1567

Delta R.T. -0.02 min

Lab File: BF113242.D

Acq: 22 Mar 2019 18:48

Instrument :

BNA_F

ClientSampleId :

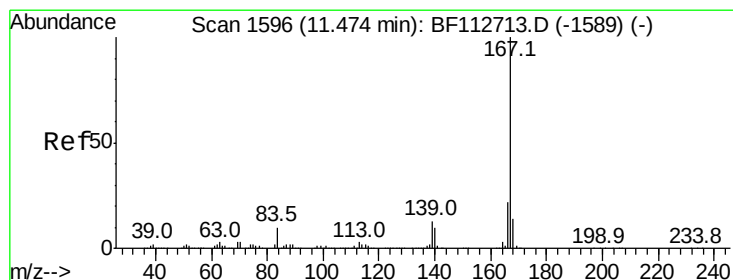
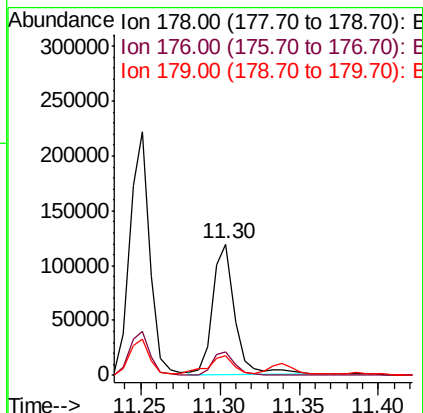
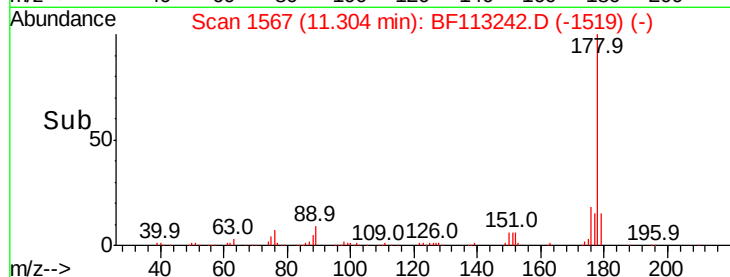
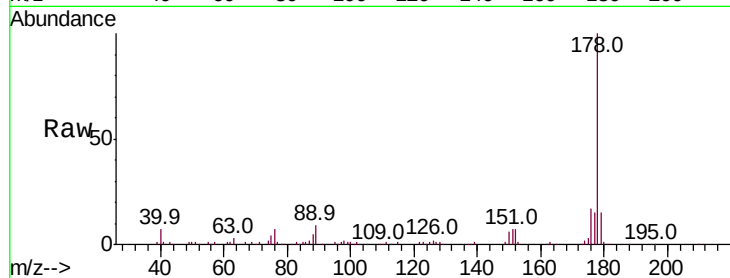
Tot Ion:178 Resp: 117276

Ion Ratio Lower Upper

178 100

176 17.5 15.8 23.6

179 15.0 13.0 19.6



#73

Carbazole

Concen: 3.369 ng

RT: 11.46 min Scan# 1593

Delta R.T. -0.02 min

Lab File: BF113242.D

Acq: 22 Mar 2019 18:48

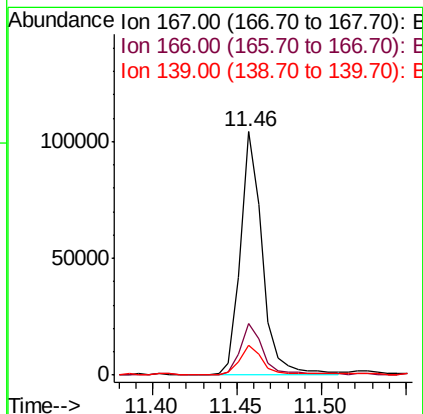
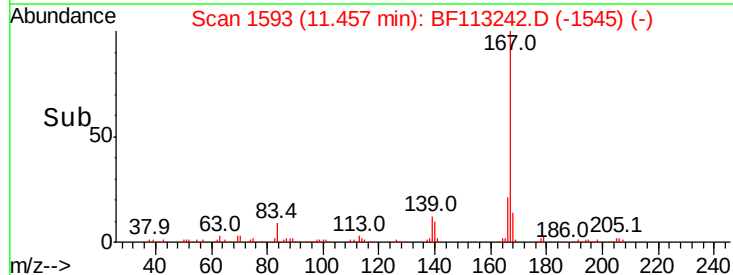
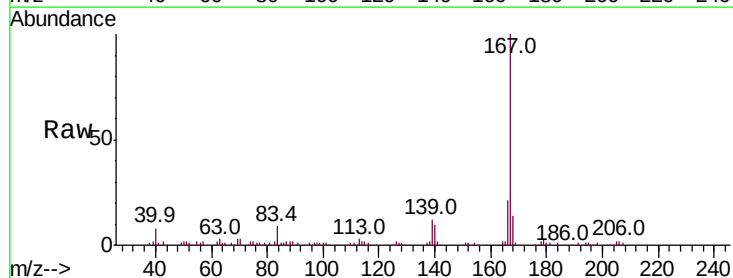
Tgt Ion:167 Resp: 93046

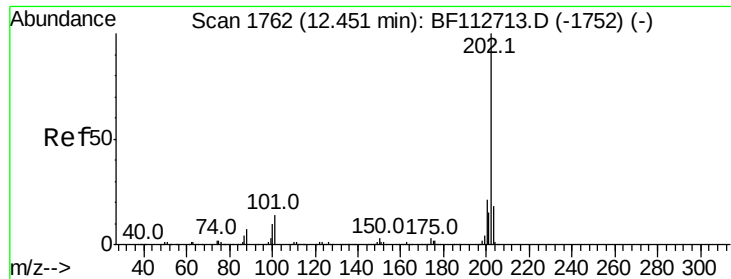
Ion Ratio Lower Upper

167 100

166 21.1 17.5 26.3

139 12.0 10.8 16.2





#75

Fluoranthene

Concen: 37.904 ng

RT: 12.44 min Scan# 1760

Delta R.T. -0.01 min

Lab File: BF113242.D

Acq: 22 Mar 2019 18:48

Instrument :

BNA_F

ClientSampleId :

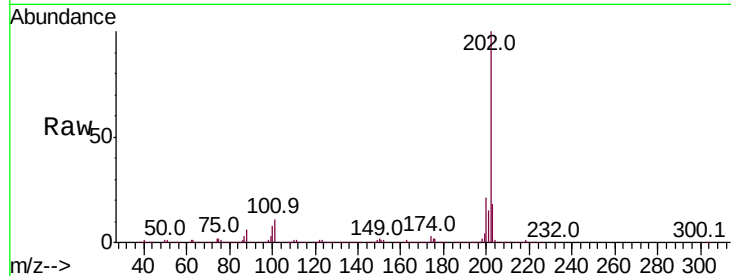
Tot Ion:202 Resp: 1098464

Ion Ratio Lower Upper

202 100

101 11.3 0.0 33.8

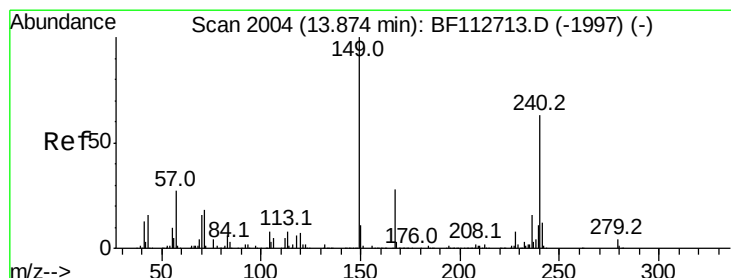
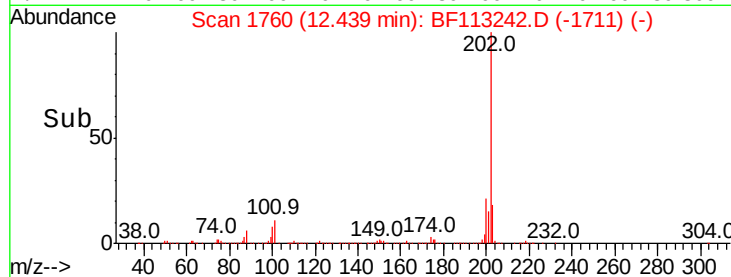
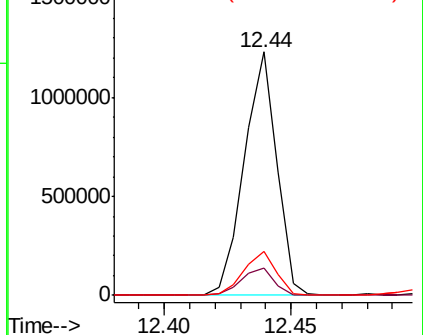
203 18.1 0.0 38.4



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# 2002

Delta R.T. -0.01 min

Lab File: BF113242.D

Acq: 22 Mar 2019 18:48

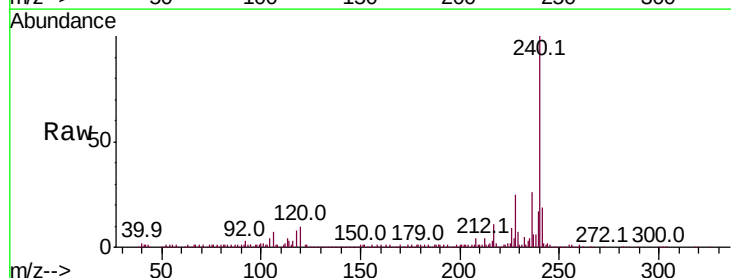
Tgt Ion:240 Resp: 353308

Ion Ratio Lower Upper

240 100

120 10.1 8.9 13.3

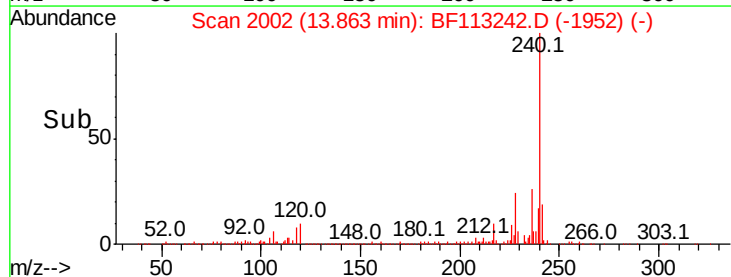
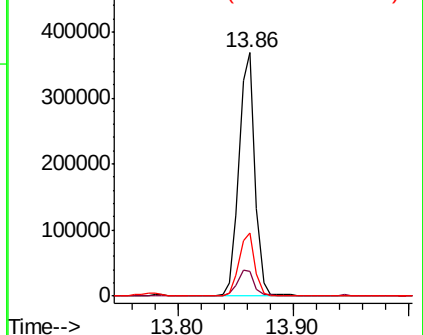
236 25.9 20.7 31.1

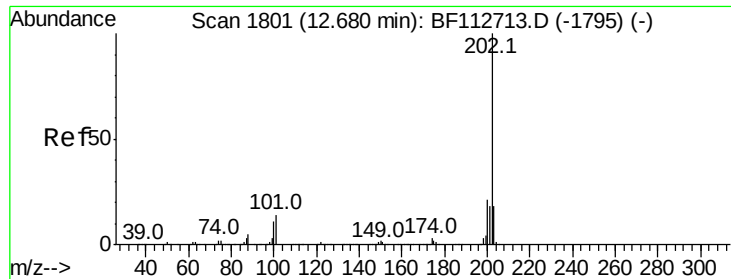


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

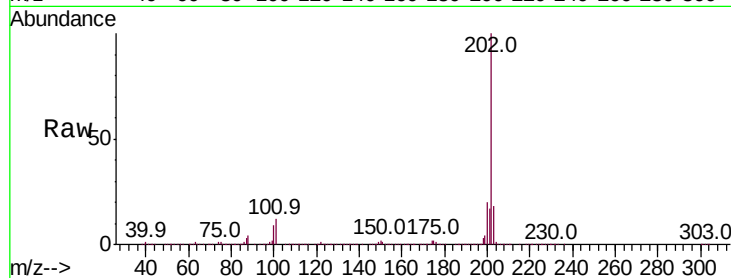




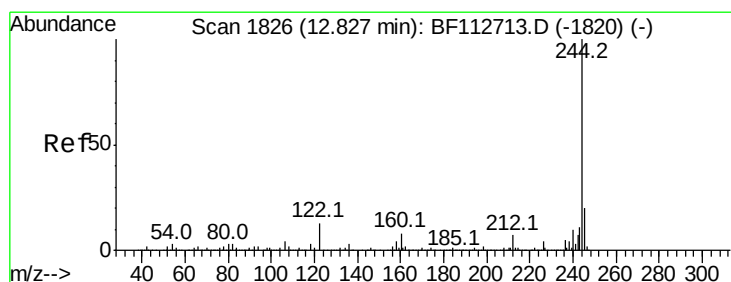
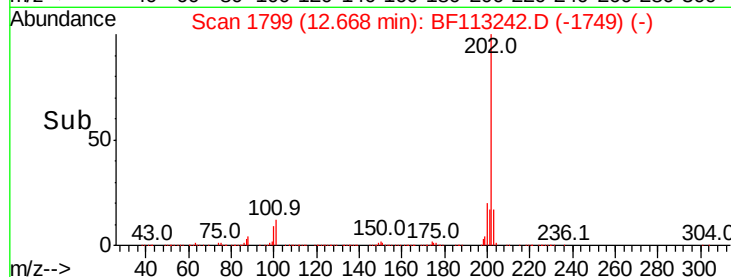
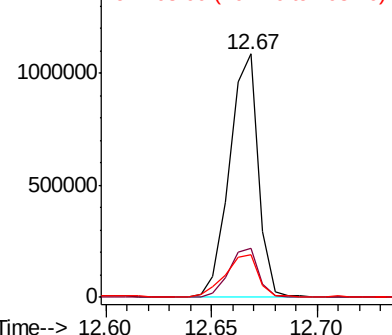
#78
Pvrene
Concen: 34.565 ng
RT: 12.67 min Scan# 1799
Delta R.T. -0.01 min
Lab File: BF113242.D
Acq: 22 Mar 2019 18:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:202 Resp: 1029498
Ion Ratio Lower Upper
202 100
200 20.3 17.0 25.4
203 17.7 14.4 21.6

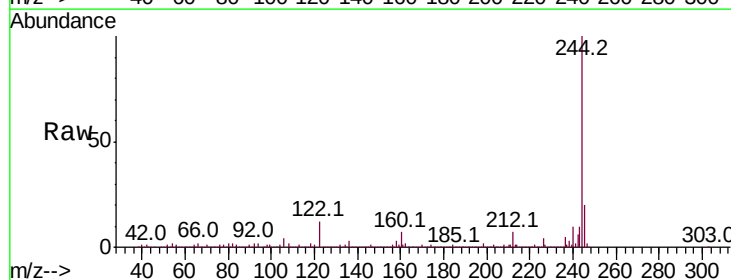


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

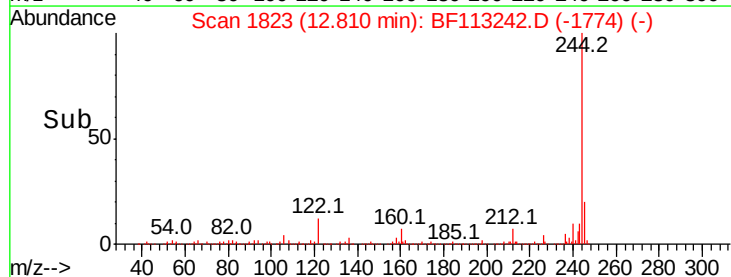
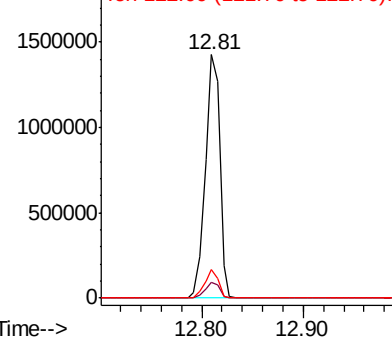


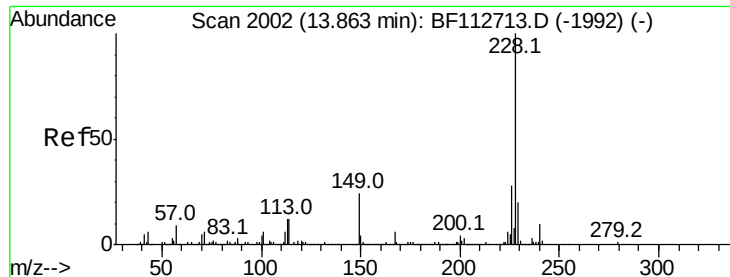
#79
Terphenyl-d14
Concen: 77.749 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.01 min
Lab File: BF113242.D
Acq: 22 Mar 2019 18:48

Tgt Ion:244 Resp: 1417051
Ion Ratio Lower Upper
244 100
212 6.7 5.6 8.4
122 11.6 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

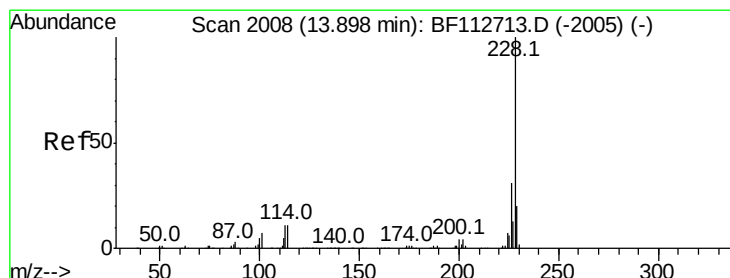
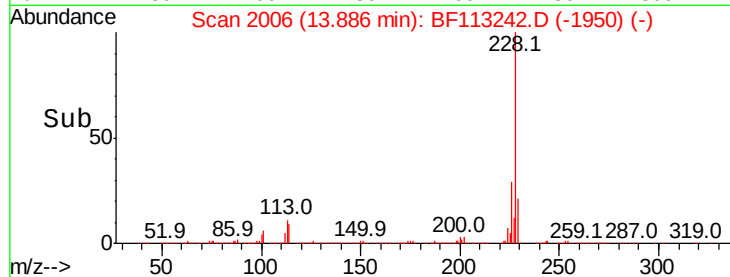
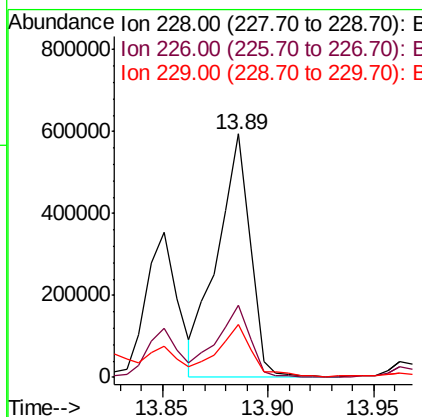
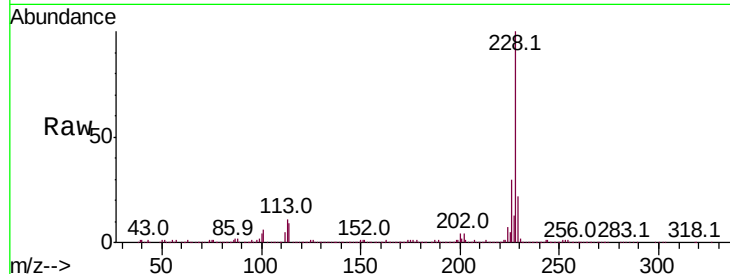




#81
Benzo(a)anthracene
Concen: 25.892 ng
RT: 13.89 min Scan# 2006
Delta R.T. 0.03 min
Lab File: BF113242.D
Acq: 22 Mar 2019 18:48

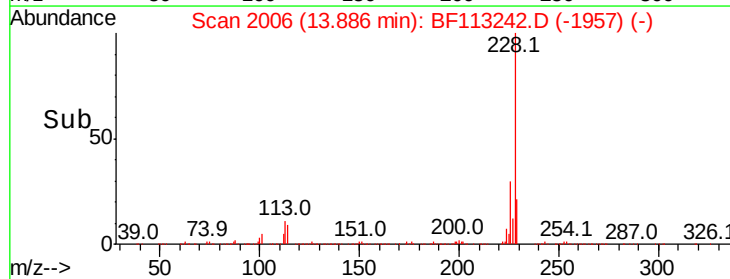
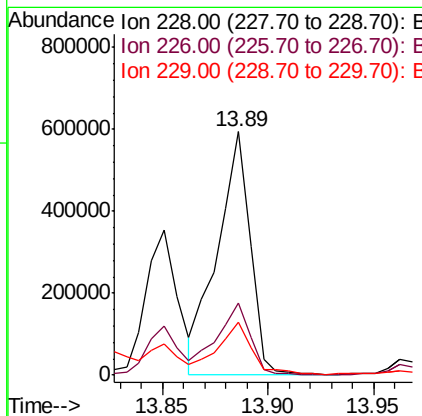
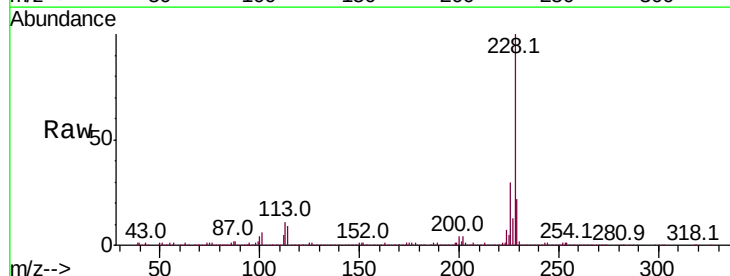
Instrument :
BNA_F
ClientSampleId :

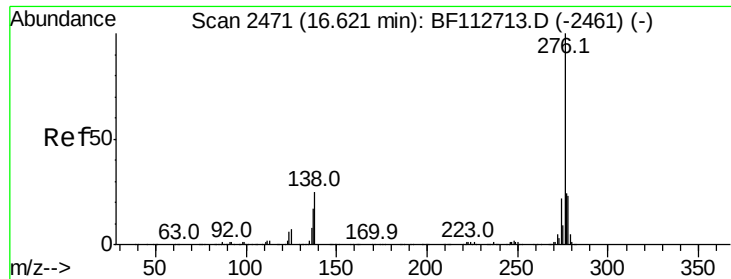
Tot Ion	Ratio	Lower	Upper
228	100		
226	29.8	22.2	33.4
229	21.7	16.0	24.0



#83
Chrysene
Concen: 26.434 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.01 min
Lab File: BF113242.D
Acq: 22 Mar 2019 18:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.9	37.3
229	21.7	16.3	24.5

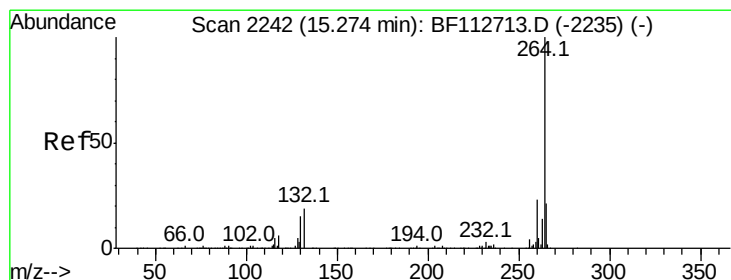
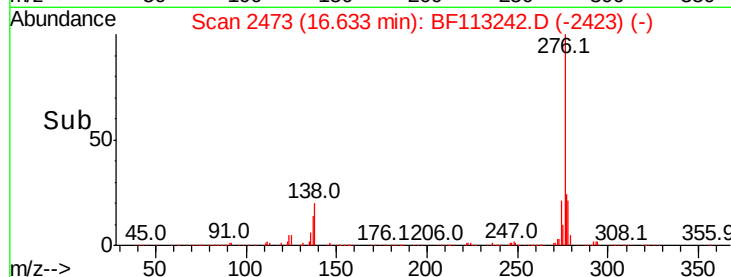
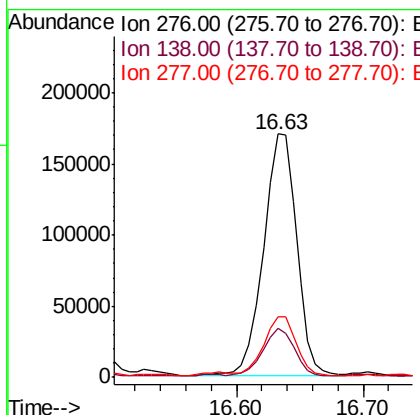
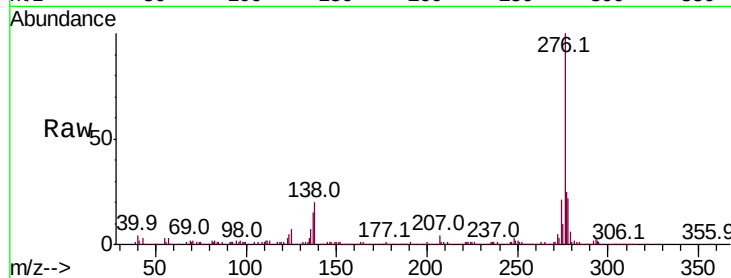




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 15.051 ng
 RT: 16.63 min Scan# 2473
 Delta R.T. -0.01 min
 Lab File: BF113242.D
 Acq: 22 Mar 2019 18:48

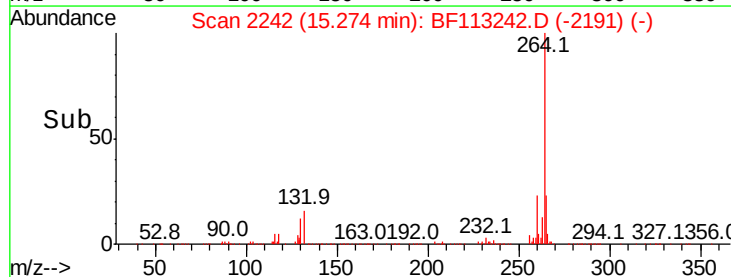
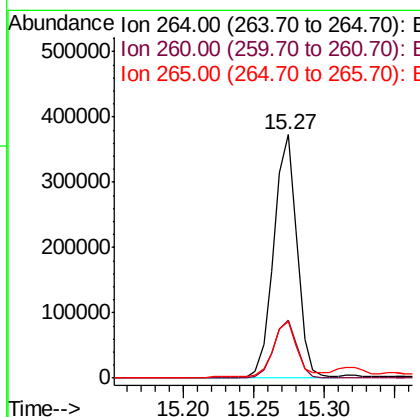
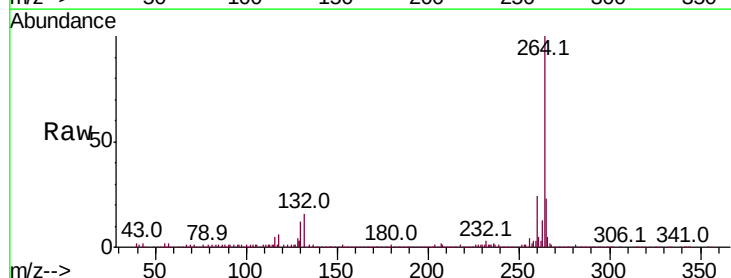
Instrument :
 BNA_F
 ClientSampleId :

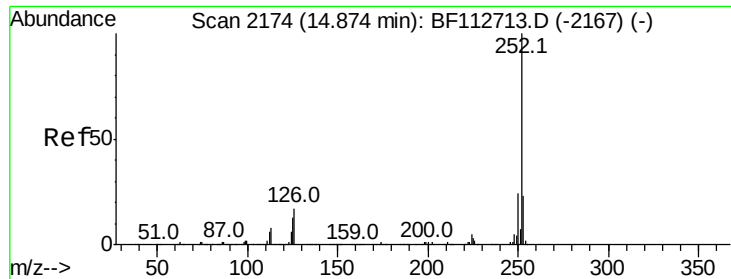
Tot Ion	Ratio	Lower	Upper
276	100		
138	19.3	23.2	34.8#
277	24.3	19.9	29.9



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.27 min Scan# 2242
 Delta R.T. -0.00 min
 Lab File: BF113242.D
 Acq: 22 Mar 2019 18:48

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.7	28.1
265	23.3	17.2	25.8





#88

Benzo(b)fluoranthene

Concen: 48.310 ng

RT: 14.87 min Scan# 2174

Delta R.T. -0.00 min

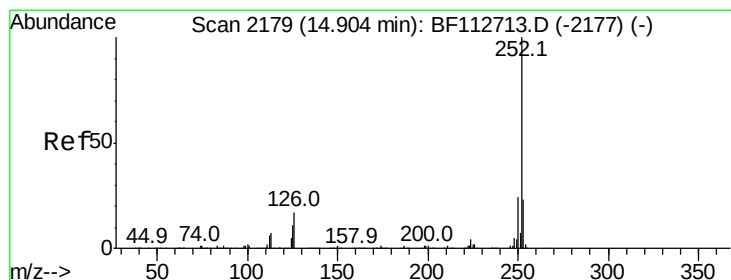
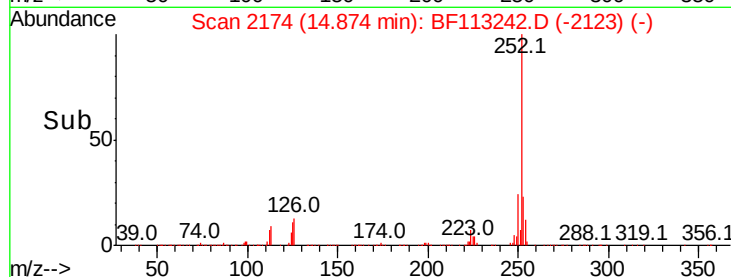
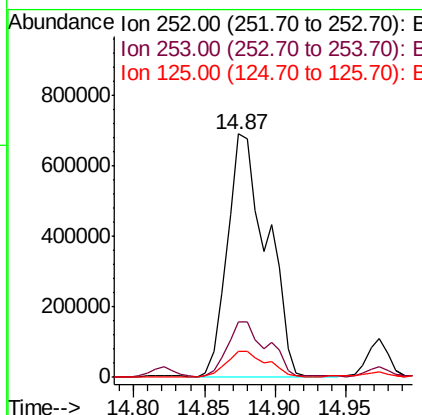
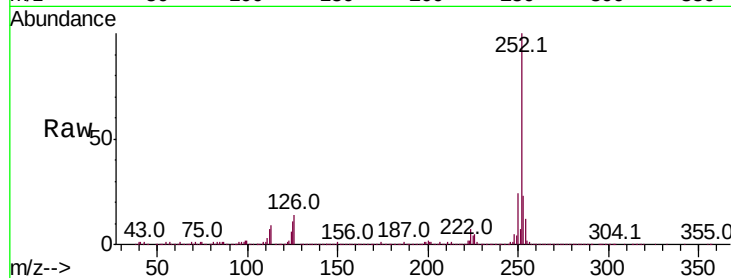
Lab File: BF113242.D

Acq: 22 Mar 2019 18:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 1346427

Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.0	27.0
125	10.9	10.2	15.2



#89

Benzo(k)fluoranthene

Concen: 53.334 ng

RT: 14.87 min Scan# 2174

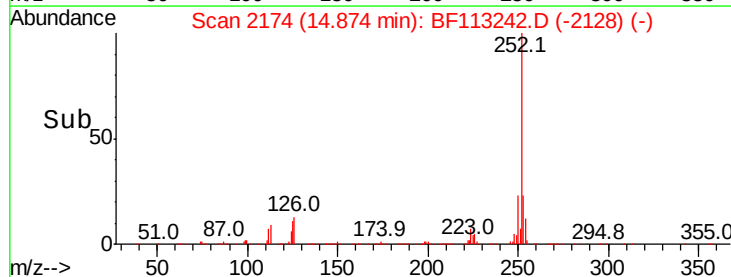
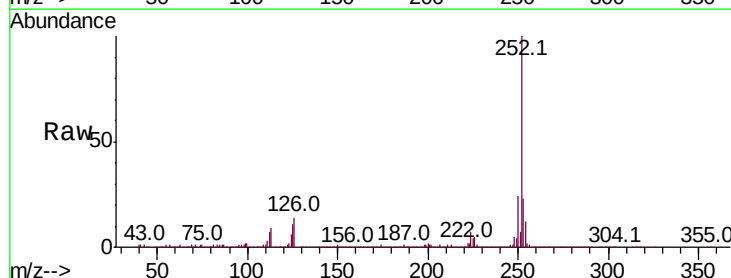
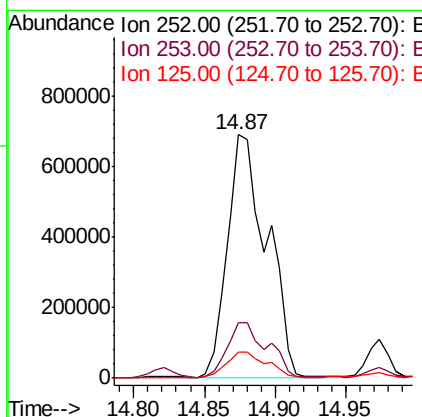
Delta R.T. -0.03 min

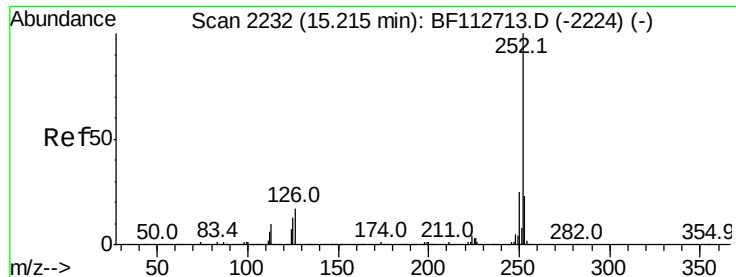
Lab File: BF113242.D

Acq: 22 Mar 2019 18:48

Tgt Ion:252 Resp: 1346427

Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.2
125	10.9	9.8	14.6

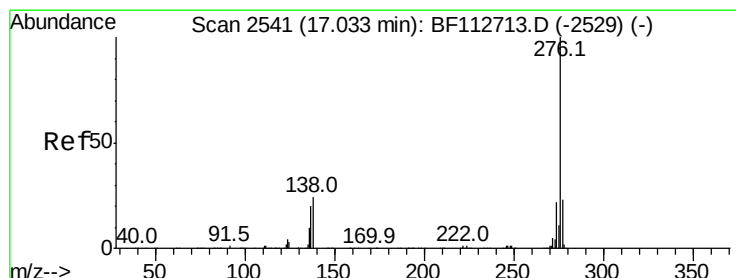
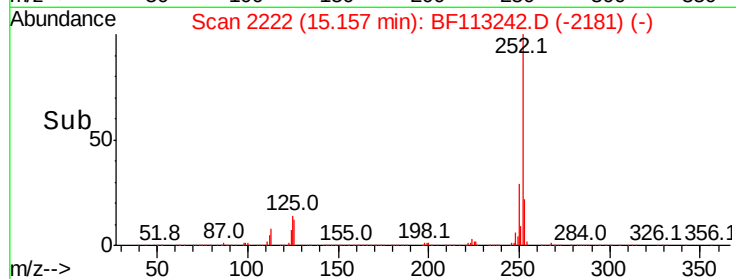
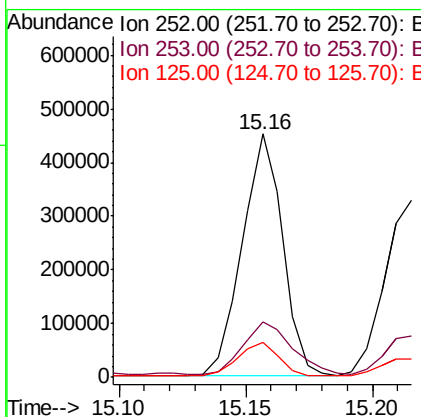
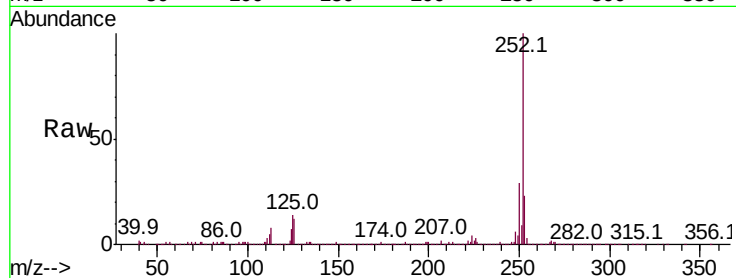




#90
Benzo(a)pyrene
Concen: 20.286 ng
RT: 15.16 min Scan# 2222
Delta R.T. -0.06 min
Lab File: BF113242.D
Acq: 22 Mar 2019 18:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.0	27.0
125	14.4	10.7	16.1



#92
Benzo(g,h,i)perylene
Concen: 12.527 ng
RT: 17.04 min Scan# 2543
Delta R.T. -0.00 min
Lab File: BF113242.D
Acq: 22 Mar 2019 18:48

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.6	27.8
138	19.3	19.4	29.0

