

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041519\
 Data File : BF113776.D
 Acq On : 15 Apr 2019 21:32
 Operator : JU/SJ
 Sample : K2397-11
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 15 23:09:40 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 04 04:05:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	111926	20.00	ng	-0.02
21) Naphthalene-d8	7.95	136	414562	20.00	ng	-0.02
39) Acenaphthene-d10	9.70	164	195471	20.00	ng	-0.02
64) Phenanthrene-d10	11.19	188	364257	20.00	ng	-0.02
76) Chrysene-d12	13.83	240	265032	20.00	ng	-0.02
87) Perylene-d12	15.24	264	316836	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.29	112	747399	113.87	ng	-0.01
7) Phenol-d6	6.33	99	979737	121.11	ng	-0.01
23) Nitrobenzene-d5	7.24	82	568584	80.34	ng	-0.02
42) 2,4,6-Tribromophenol	10.50	330	257100	109.49	ng	-0.02
45) 2-Fluorobiphenyl	9.03	172	1033060	85.08	ng	-0.02
79) Terphenyl-d14	12.77	244	893556	68.64	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.24	70	72901	14.614	ng	# 79
25) Isophorone	7.24	82	568581	41.704	ng	# 64
31) Naphthalene	7.97	128	58481	2.911	ng	98
49) Acenaphthylene	9.57	152	52822	2.660	ng	98
50) Dimethylphthalate	9.43	163	136595	9.480	ng	# 99
56) 4-Nitrophenol	9.92	139	5835	2.605	ng	# 12
57) 2,4-Dinitrotoluene	9.70	165	25801	6.717	ng	# 23
67) 4-Bromophenyl-phenylether	10.49	248	14110	3.454	ng	# 1
71) Phenanthrene	11.21	178	175490	9.695	ng	98
72) Anthracene	11.26	178	88395	4.800	ng	99
75) Fluoranthene	12.40	202	821236	42.341	ng	100
78) Pyrene	12.63	202	1047743	51.956	ng	99
81) Benzo(a)anthracene	13.82	228	871734	57.019	ng	98
83) Chrysene	13.86	228	802321	51.769	ng	99
86) Indeno(1,2,3-cd)pyrene	16.62	276	672973	47.031	ng	96
88) Benzo(b)fluoranthene	14.85	252	1837740	94.757	ng	98
89) Benzo(k)fluoranthene	14.85	252	1837740	105.581	ng	# 97
90) Benzo(a)pyrene	15.19	252	1023362	59.381	ng	97
91) Dibenzo(a,h)anthracene	16.76	278	154912	9.612	ng	97
92) Benzo(a,h,i)perylene	17.03	276	612040	37.207	ng	98

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

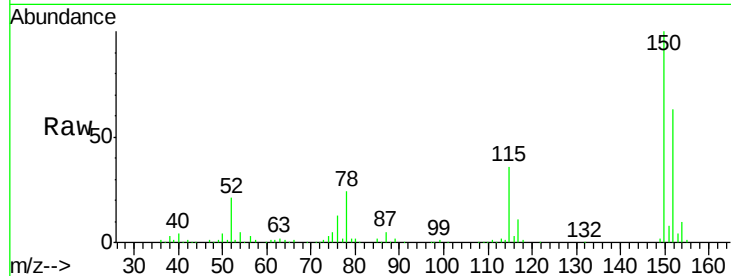


#1

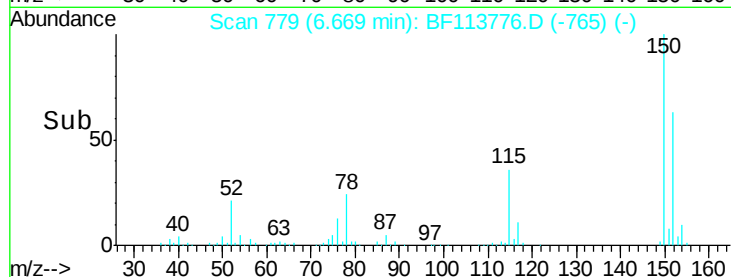
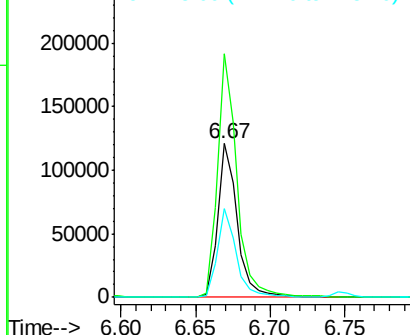
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.67 min Scan# 779
Delta R.T. -0.02 min
Lab File: BF113776.D
Acq: 15 Apr 2019 21:32

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 111926
Ion Ratio Lower Upper
152 100
150 158.3 124.7 187.1
115 57.6 46.0 69.0



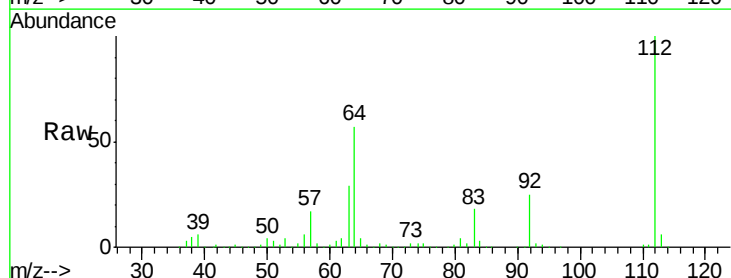
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



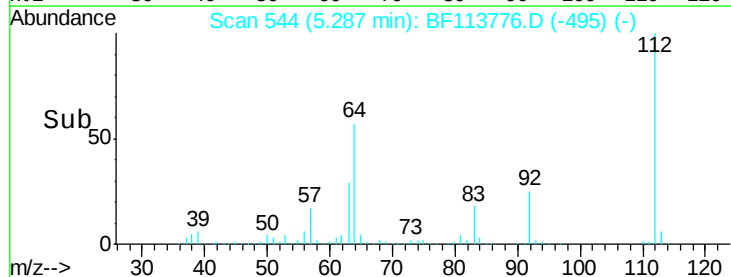
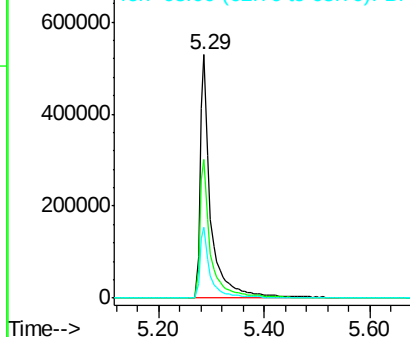
#5

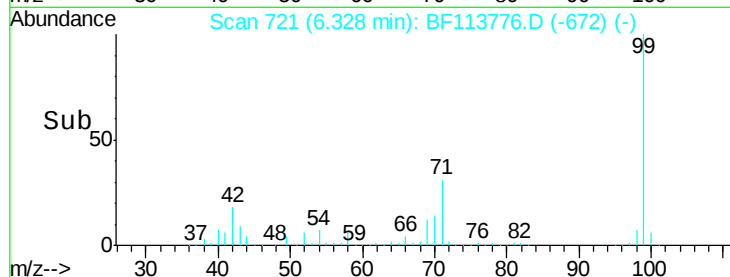
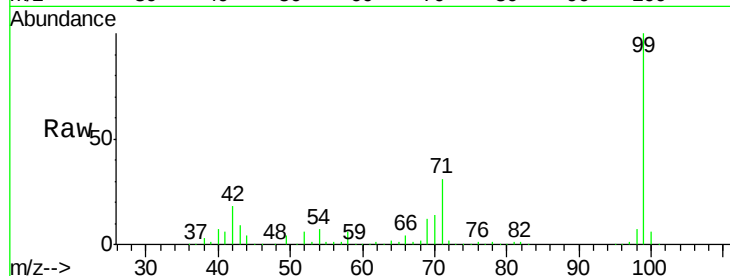
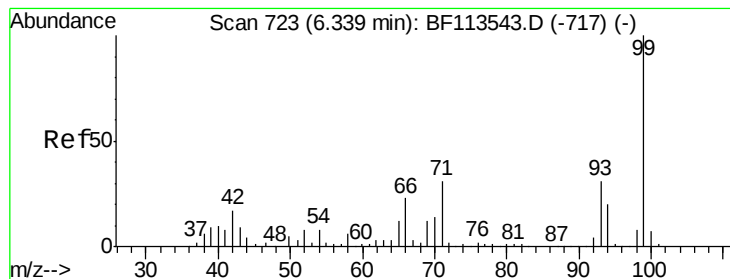
2-Fluorophenol
Concen: 113.869 ng
RT: 5.29 min Scan# 544
Delta R.T. -0.01 min
Lab File: BF113776.D
Acq: 15 Apr 2019 21:32

Tgt Ion:112 Resp: 747399
Ion Ratio Lower Upper
112 100
64 57.0 49.2 73.8
63 28.9 24.9 37.3



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: 121.108 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.01 min

Lab File: BF113776.D

Acq: 15 Apr 2019 21:32

Instrument :

BNA_F

ClientSampleId :

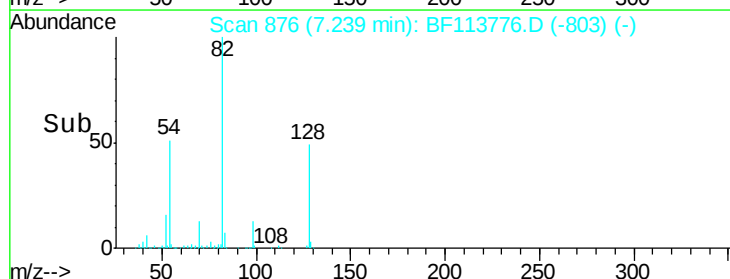
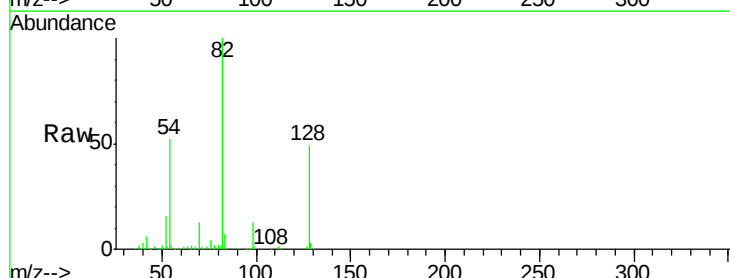
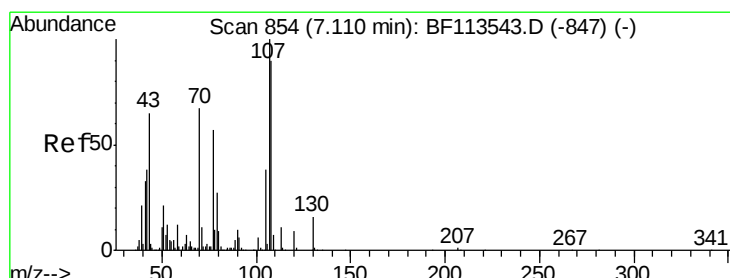
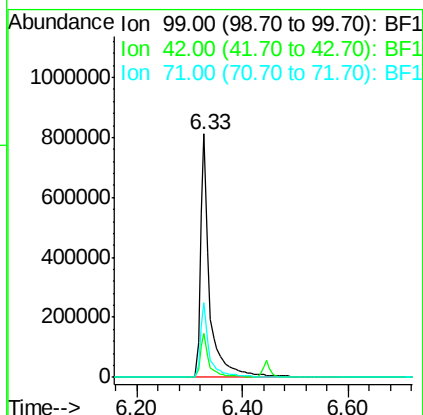
Tot Ion: 99 Resp: 979737

Ion Ratio Lower Upper

99 100

42 18.1 14.8 22.2

71 30.8 24.9 37.3



#19

n-Nitroso-di-n-propylamine

Concen: 14.614 ng

RT: 7.24 min Scan# 876

Delta R.T. 0.13 min

Lab File: BF113776.D

Acq: 15 Apr 2019 21:32

Tgt Ion: 70 Resp: 72901

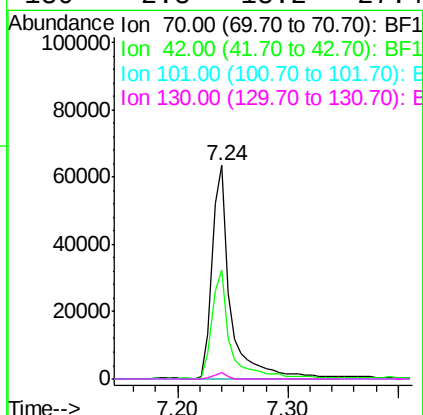
Ion Ratio Lower Upper

70 100

42 50.9 48.4 72.6

101 0.0 7.8 11.8#

130 2.8 18.2 27.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.95 min Scan# 997

Delta R.T. -0.02 min

Lab File: BF113776.D

Acq: 15 Apr 2019 21:32

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 414562

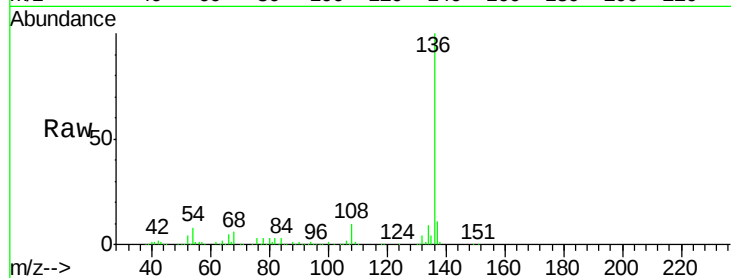
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 8.2 7.0 10.6

68 5.9 4.8 7.2

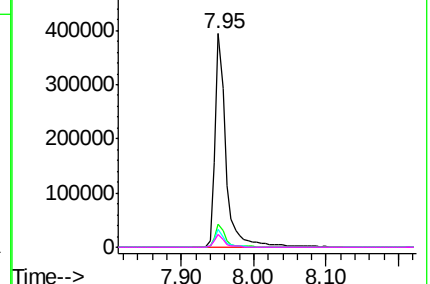
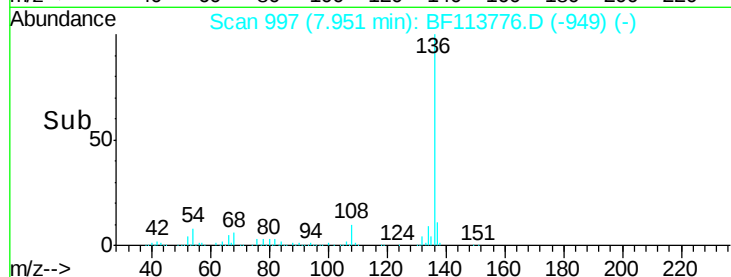


Abundance Ion 136.00 (135.70 to 136.70): E

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: 80.338 ng

RT: 7.24 min Scan# 876

Delta R.T. -0.02 min

Lab File: BF113776.D

Acq: 15 Apr 2019 21:32

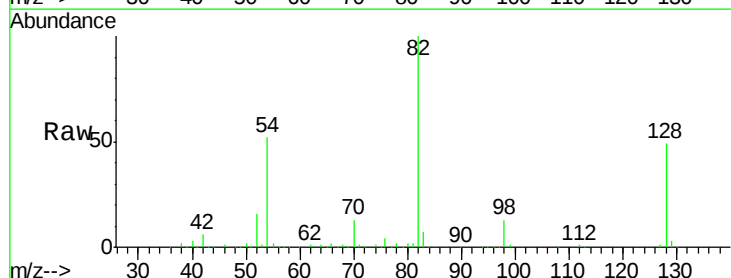
Tgt Ion: 82 Resp: 568584

Ion Ratio Lower Upper

82 100

128 49.0 36.5 54.7

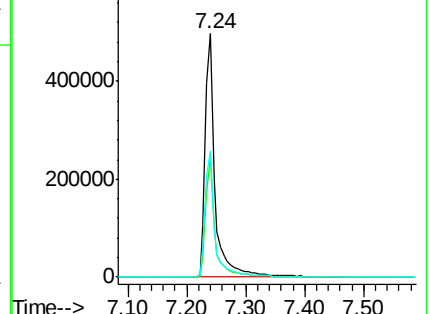
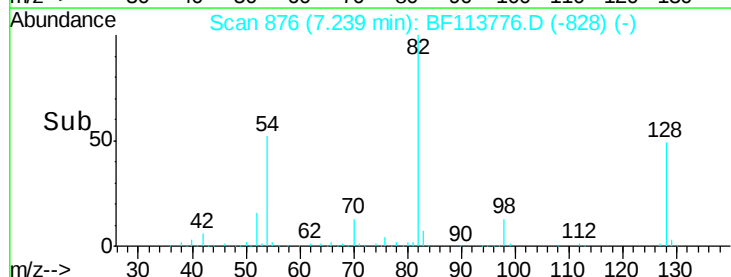
54 51.7 42.2 63.2

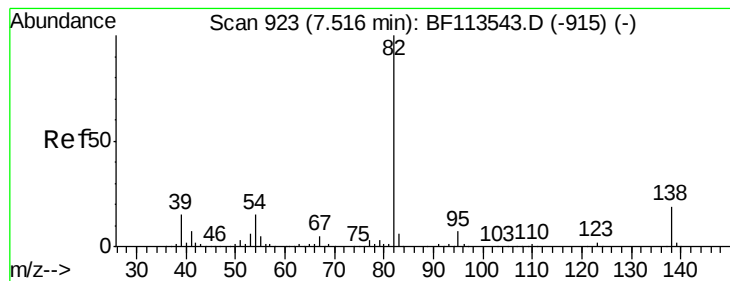


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 41.704 ng

RT: 7.24 min Scan# 876

Delta R.T. -0.28 min

Lab File: BF113776.D

Acq: 15 Apr 2019 21:32

Instrument :

BNA_F

ClientSampleId :

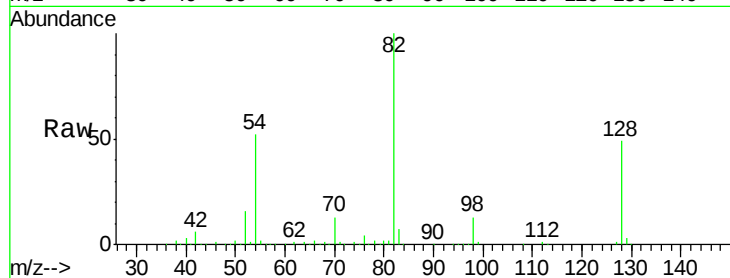
Tot Ion: 82 Resp: 568581

Ion Ratio Lower Upper

82 100

95 0.1 5.5 8.3#

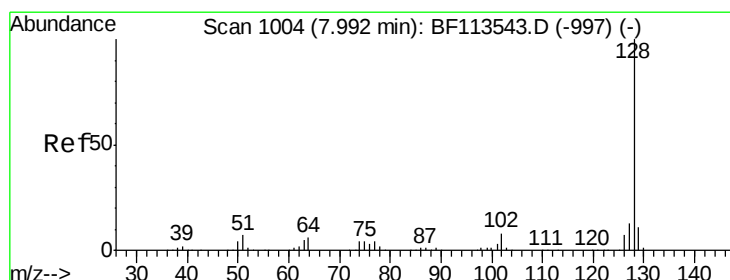
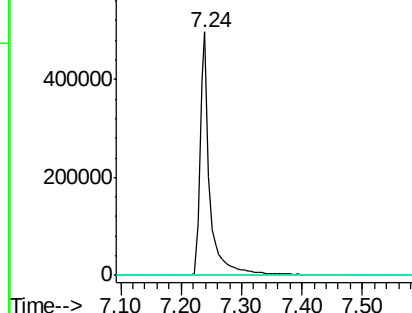
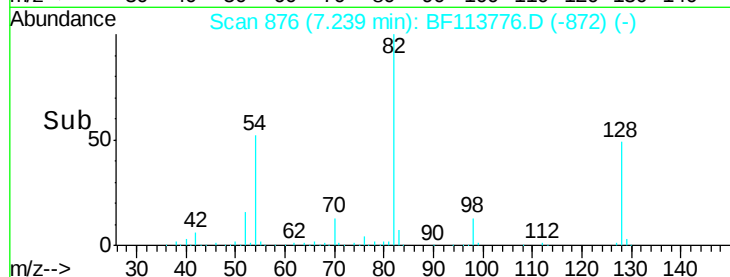
138 0.0 15.2 22.8#



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



#31

Naphthalene

Concen: 2.911 ng

RT: 7.97 min Scan# 1001

Delta R.T. -0.02 min

Lab File: BF113776.D

Acq: 15 Apr 2019 21:32

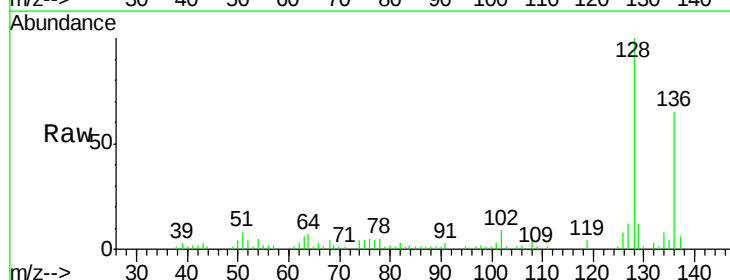
Tgt Ion: 128 Resp: 58481

Ion Ratio Lower Upper

128 100

129 11.6 9.3 13.9

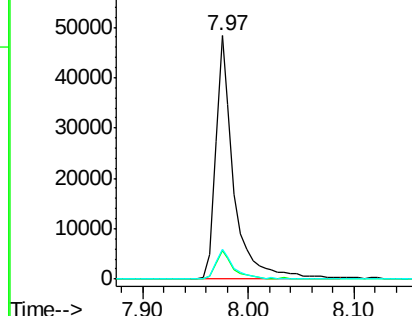
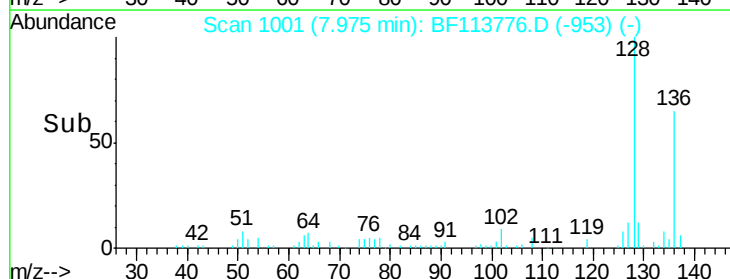
127 12.3 10.9 16.3

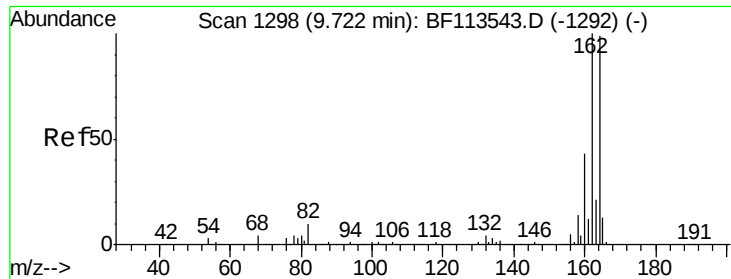


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

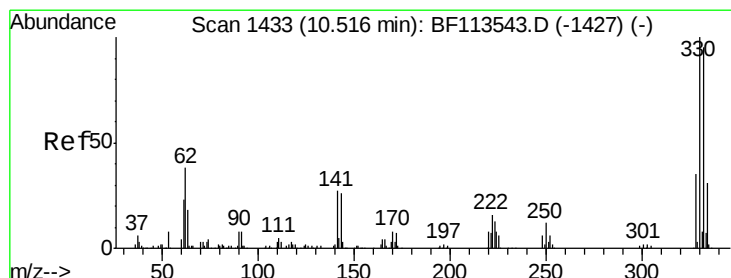
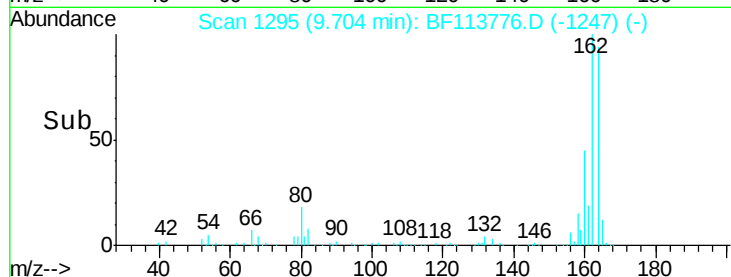
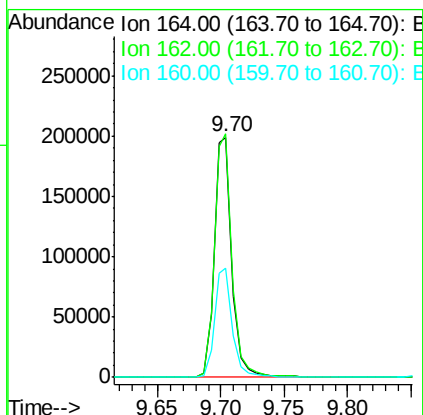
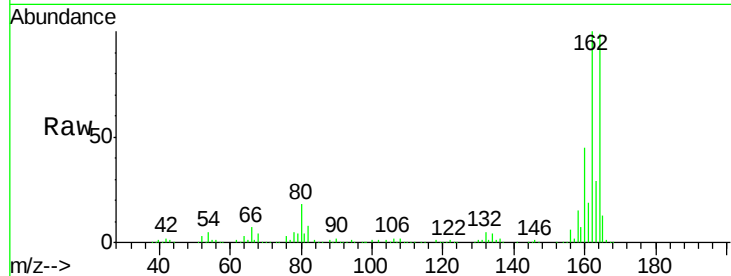




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.70 min Scan# 1295
Delta R.T. -0.02 min
Lab File: BF113776.D
Acq: 15 Apr 2019 21:32

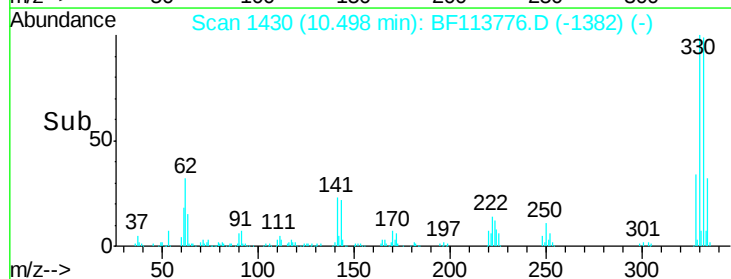
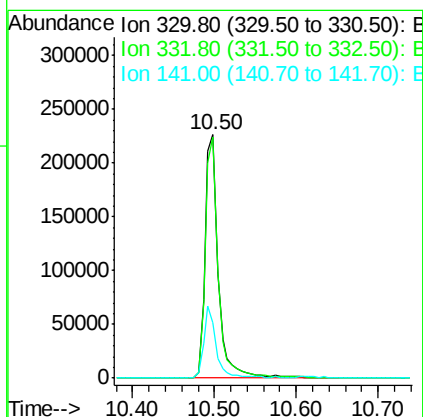
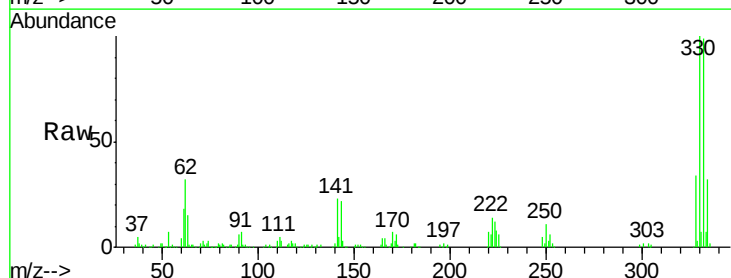
Instrument :
BNA_F
ClientSampleId :

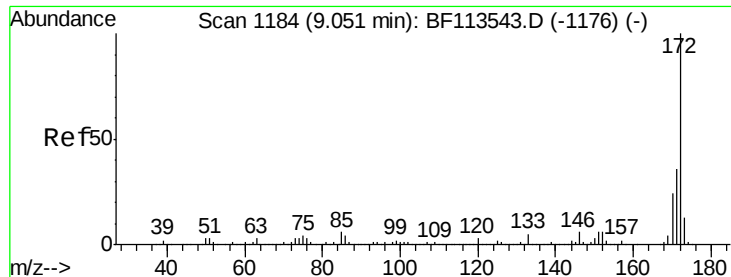
Tot Ion:164 Resp: 195471
Ion Ratio Lower Upper
164 100
162 101.4 81.8 122.6
160 45.7 36.4 54.6



#42
2,4,6-Tribromophenol
Concen: 109.494 ng
RT: 10.50 min Scan# 1430
Delta R.T. -0.02 min
Lab File: BF113776.D
Acq: 15 Apr 2019 21:32

Tgt Ion:330 Resp: 257100
Ion Ratio Lower Upper
330 100
332 96.7 77.8 116.6
141 28.3 22.7 34.1

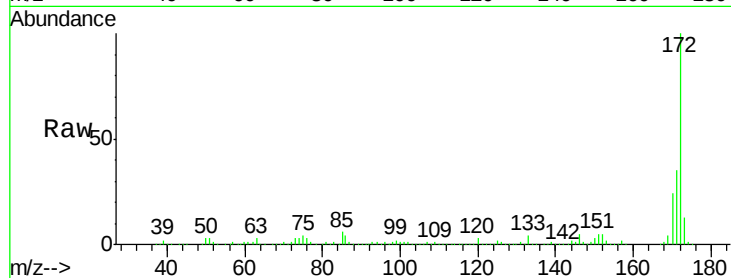




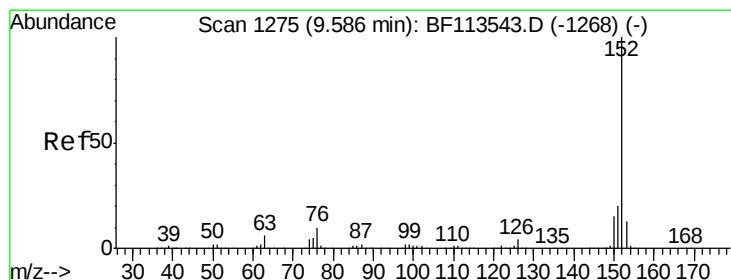
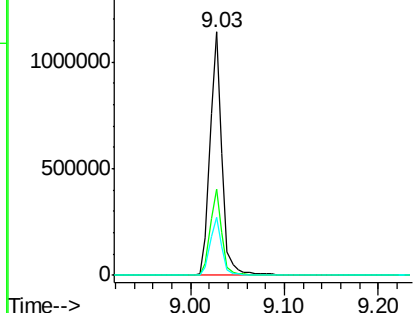
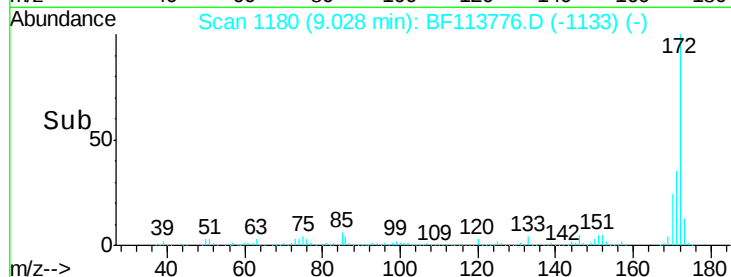
#45
2-Fluorobiphenyl
Concen: 85.082 ng
RT: 9.03 min Scan# 1180
Delta R.T. -0.02 min
Lab File: BF113776.D
Acq: 15 Apr 2019 21:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 1033060
Ion Ratio Lower Upper
172 100
171 35.3 29.0 43.6
170 23.9 19.5 29.3

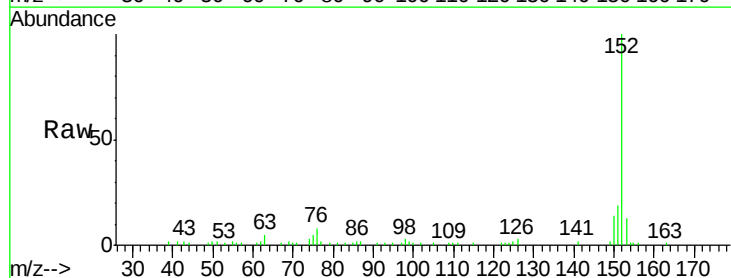


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

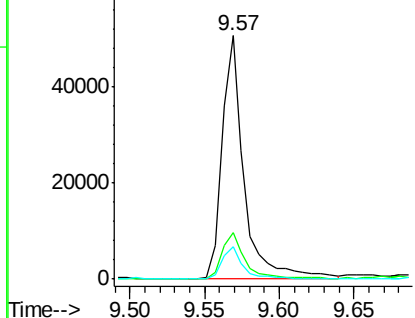
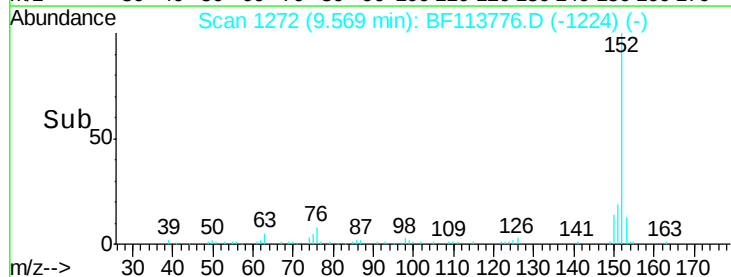


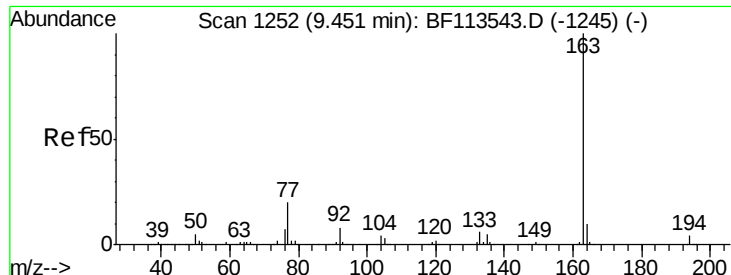
#49
Acenaphthylene
Concen: 2.660 ng
RT: 9.57 min Scan# 1272
Delta R.T. -0.02 min
Lab File: BF113776.D
Acq: 15 Apr 2019 21:32

Tgt Ion:152 Resp: 52822
Ion Ratio Lower Upper
152 100
151 19.4 16.2 24.4
153 13.1 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

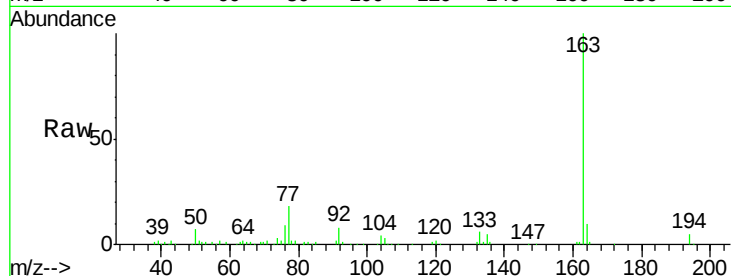




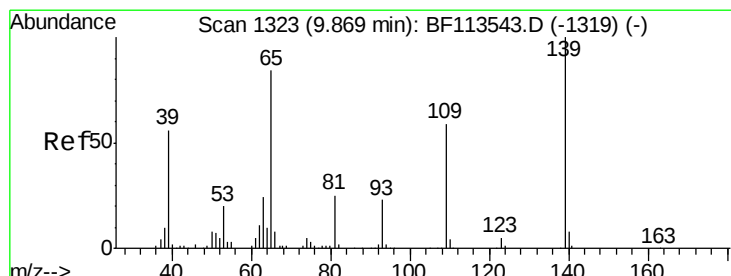
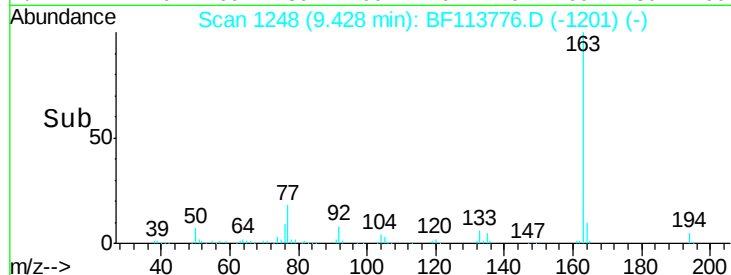
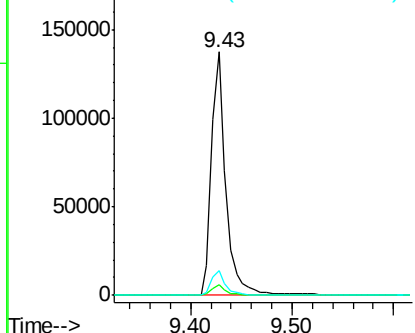
#50
Dimethylphthalate
Concen: 9.480 ng
RT: 9.43 min Scan# 1248
Delta R.T. -0.02 min
Lab File: BF113776.D
Acq: 15 Apr 2019 21:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:163 Resp: 136595
Ion Ratio Lower Upper
163 100
194 4.6 3.0 4.6#
164 10.2 8.1 12.1

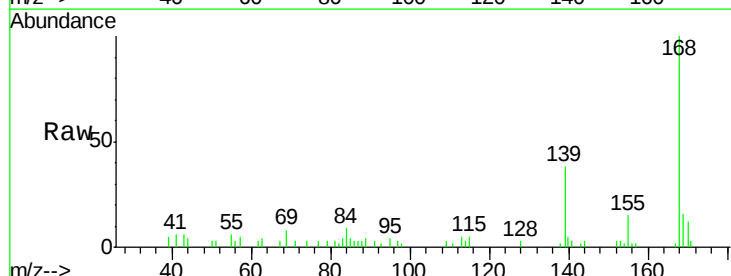


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

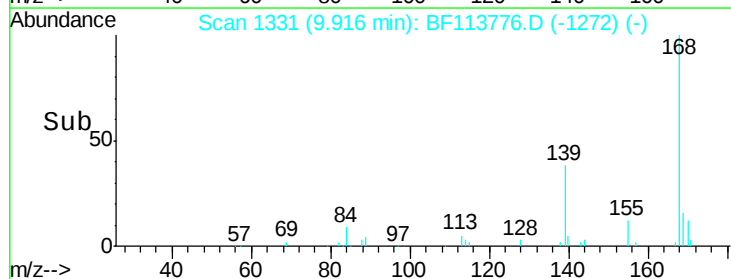
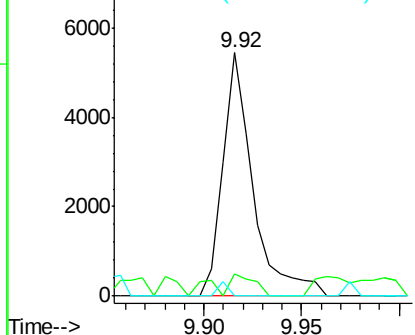


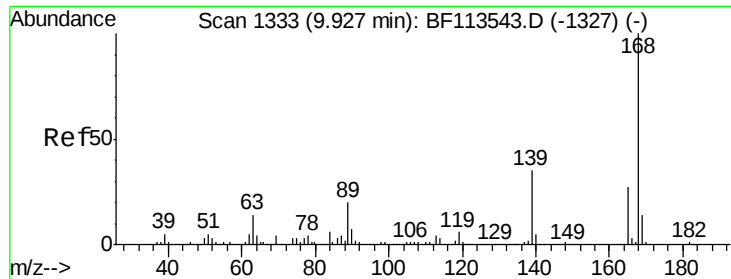
#56
4-Nitrophenol
Concen: 2.605 ng
RT: 9.92 min Scan# 1331
Delta R.T. 0.05 min
Lab File: BF113776.D
Acq: 15 Apr 2019 21:32

Tgt Ion:139 Resp: 5835
Ion Ratio Lower Upper
139 100
109 9.0 46.9 86.9#
65 0.0 77.2 117.2#



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

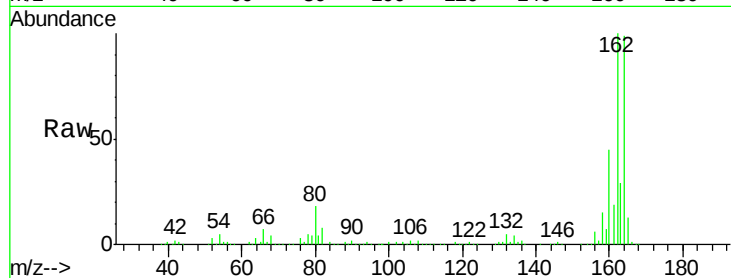




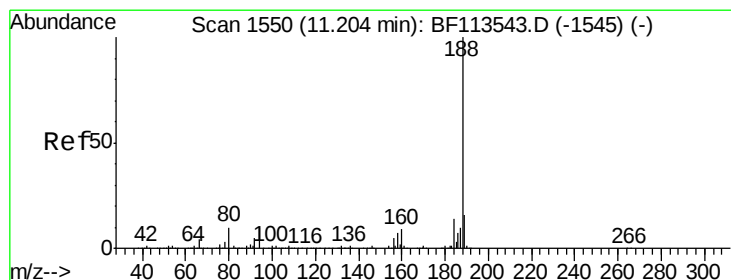
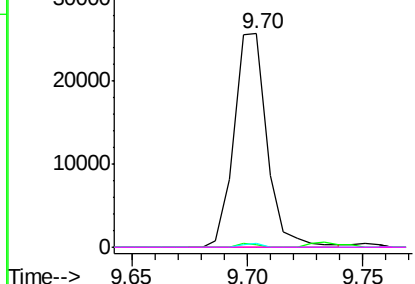
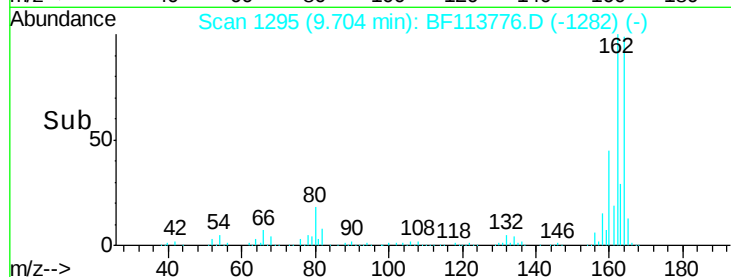
#57
 2,4-Dinitrotoluene
 Concen: 6.717 ng
 RT: 9.70 min Scan# 1295
 Delta R.T. -0.22 min
 Lab File: BF113776.D
 Acq: 15 Apr 2019 21:32

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:165 Resp: 25801
 Ion Ratio Lower Upper
 165 100
 63 1.4 37.5 56.3#
 89 1.6 57.4 86.2#
 182 0.0 2.0 3.0#

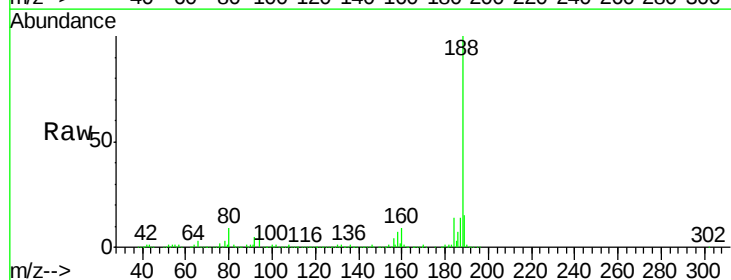


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

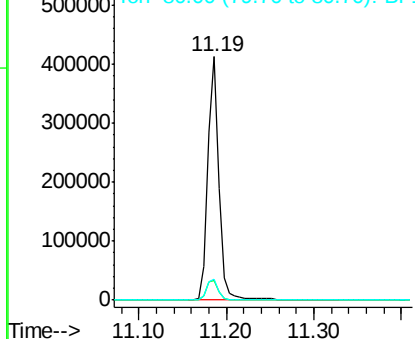
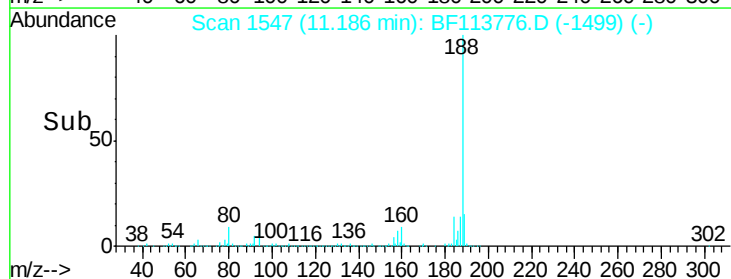


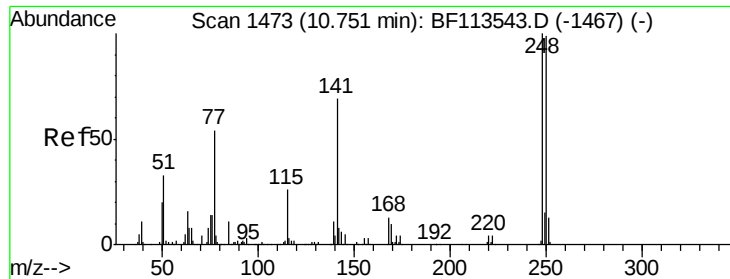
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.19 min Scan# 1547
 Delta R.T. -0.02 min
 Lab File: BF113776.D
 Acq: 15 Apr 2019 21:32

Tgt Ion:188 Resp: 364257
 Ion Ratio Lower Upper
 188 100
 94 8.3 7.0 10.6
 80 8.6 7.7 11.5



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

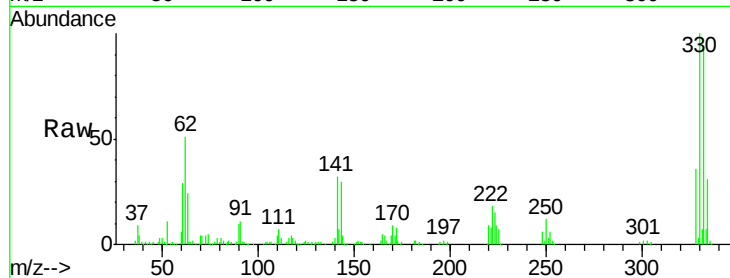




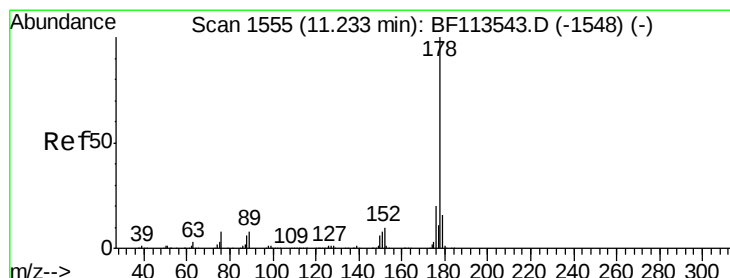
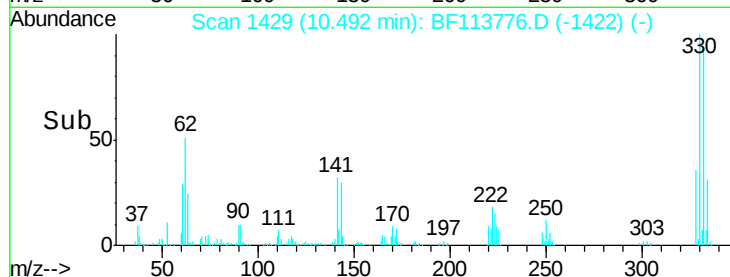
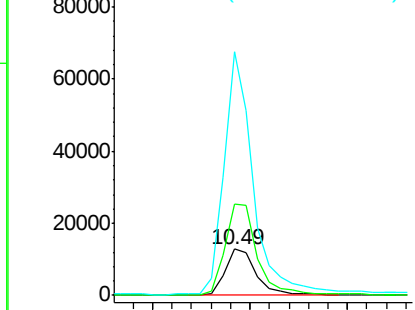
#67
 4-Bromophenyl-phenylether
 Concen: 3.454 ng
 RT: 10.49 min Scan# 1429
 Delta R.T. -0.26 min
 Lab File: BF113776.D
 Acq: 15 Apr 2019 21:32

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 14110
 Ion Ratio Lower Upper
 248 100
 250 197.1 78.3 117.5#
 141 526.0 56.2 84.4#

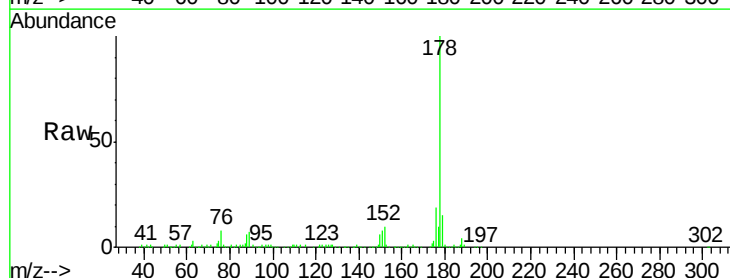


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

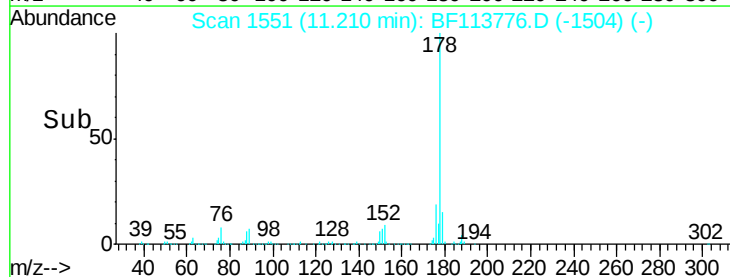
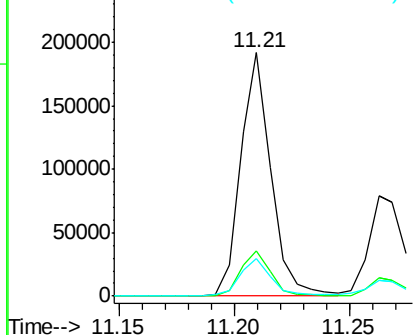


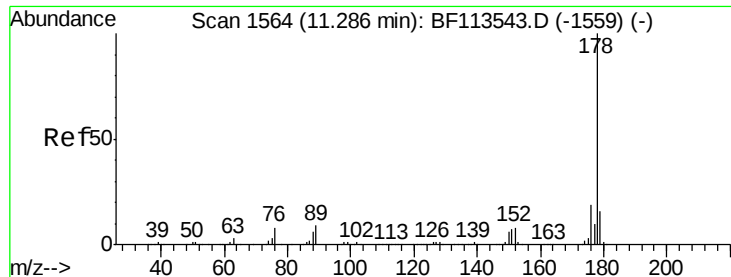
#71
 Phenanthrene
 Concen: 9.695 ng
 RT: 11.21 min Scan# 1551
 Delta R.T. -0.02 min
 Lab File: BF113776.D
 Acq: 15 Apr 2019 21:32

Tgt Ion:178 Resp: 175490
 Ion Ratio Lower Upper
 178 100
 176 18.8 16.2 24.2
 179 15.2 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: 4.800 ng

RT: 11.26 min Scan# 1560

Delta R.T. -0.02 min

Lab File: BF113776.D

Acq: 15 Apr 2019 21:32

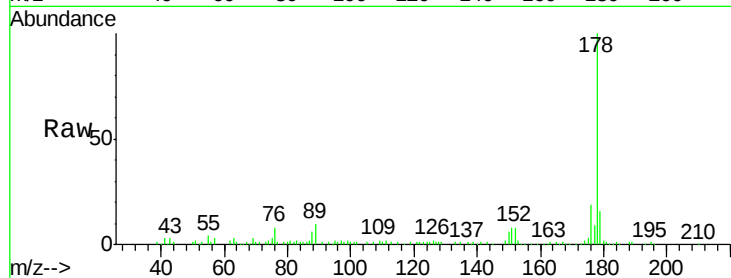
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 88395

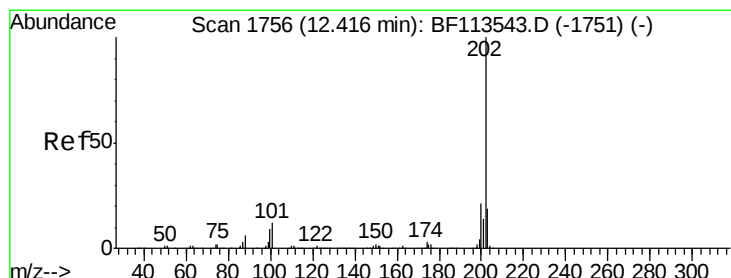
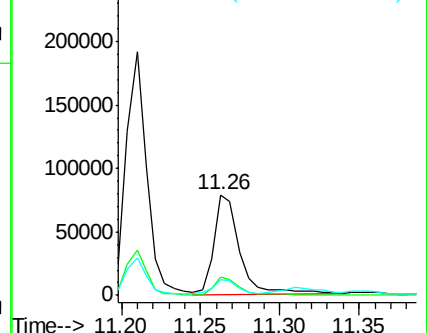
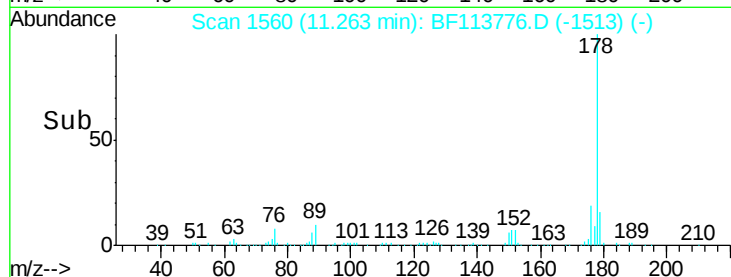
Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	16.1	12.8	19.2



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: 42.341 ng

RT: 12.40 min Scan# 1753

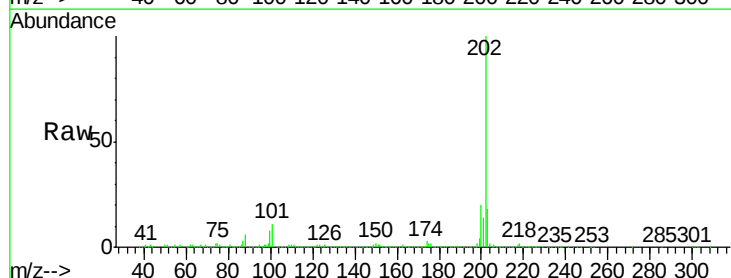
Delta R.T. -0.02 min

Lab File: BF113776.D

Acq: 15 Apr 2019 21:32

Tgt Ion:202 Resp: 821236

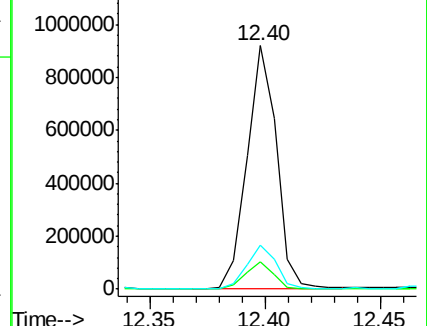
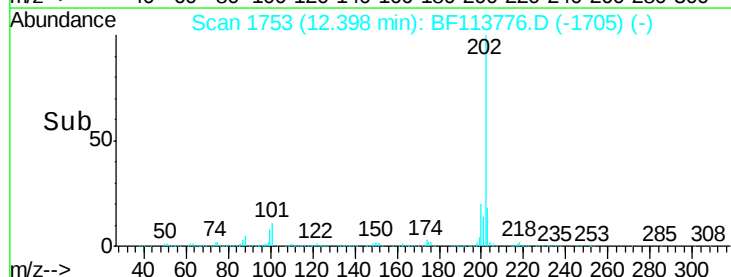
Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	31.4
203	18.1	0.0	38.0

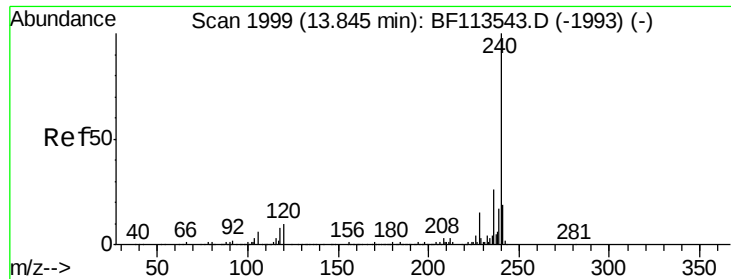


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.83 min Scan# 1996

Delta R.T. -0.02 min

Lab File: BF113776.D

Acq: 15 Apr 2019 21:32

Instrument :

BNA_F

ClientSampleId :

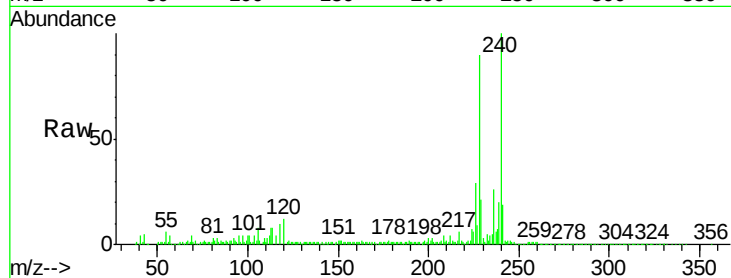
Tot Ion:240 Resp: 265032

Ion Ratio Lower Upper

240 100

120 11.6 8.8 13.2

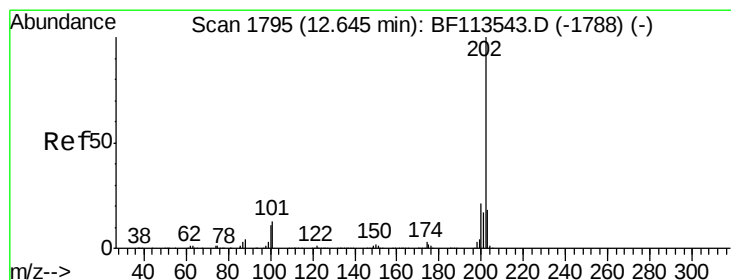
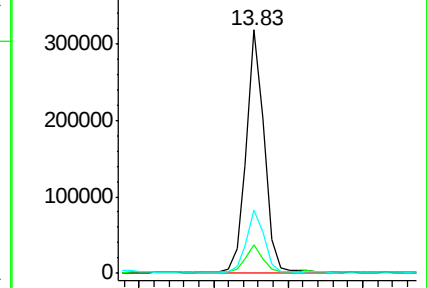
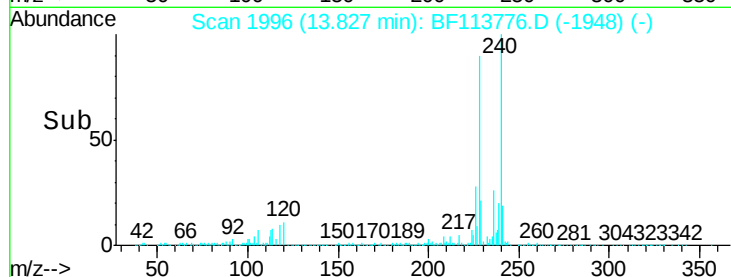
236 25.9 20.9 31.3



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

Pyrene

Concen: 51.956 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.02 min

Lab File: BF113776.D

Acq: 15 Apr 2019 21:32

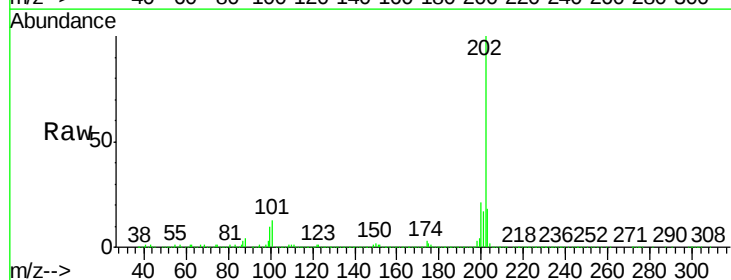
Tgt Ion:202 Resp: 1047743

Ion Ratio Lower Upper

202 100

200 20.5 16.8 25.2

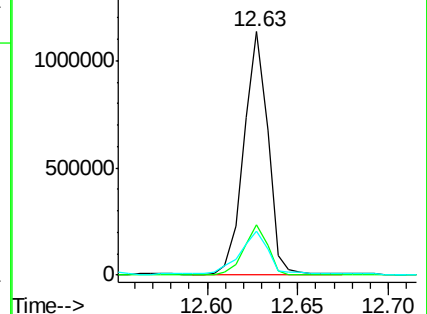
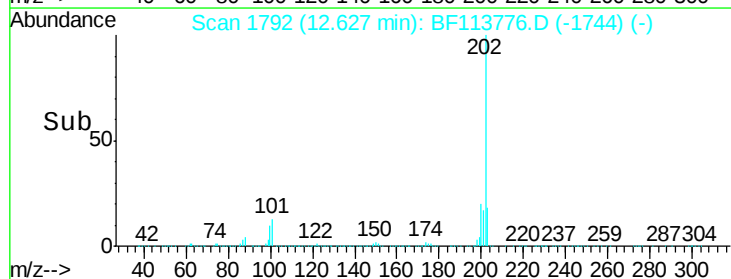
203 18.3 14.4 21.6

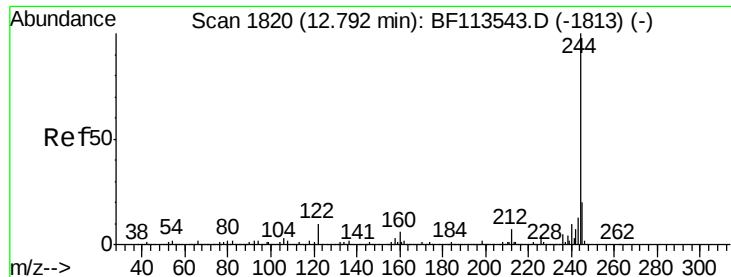


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

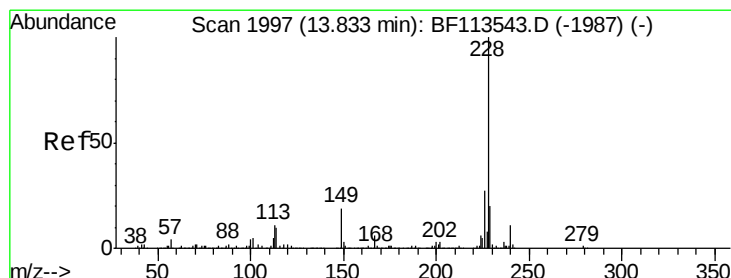
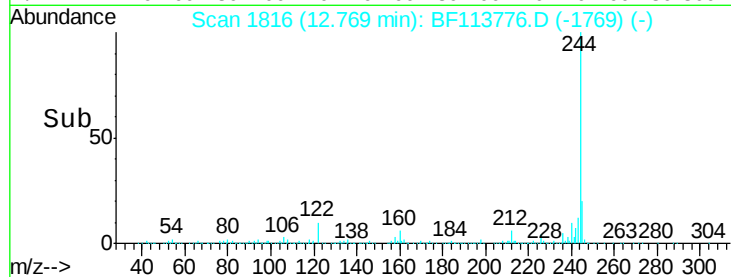
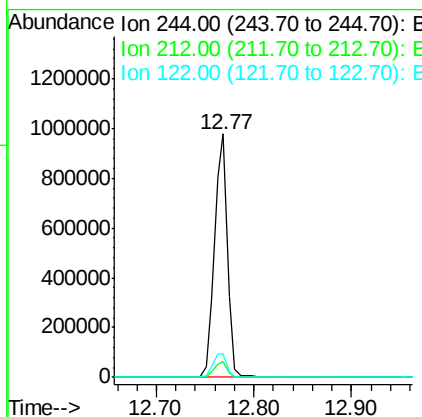
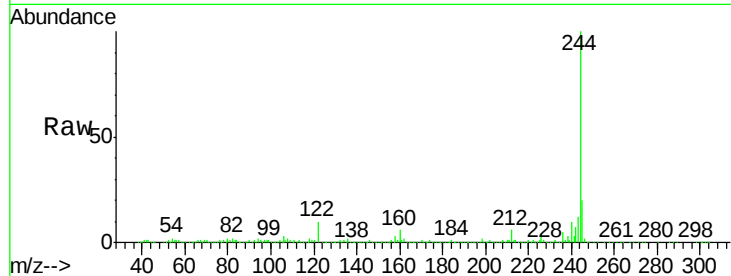




#79
 Terphenyl-d14
 Concen: 68.644 ng
 RT: 12.77 min Scan# 1816
 Delta R.T. -0.02 min
 Lab File: BF113776.D
 Acq: 15 Apr 2019 21:32

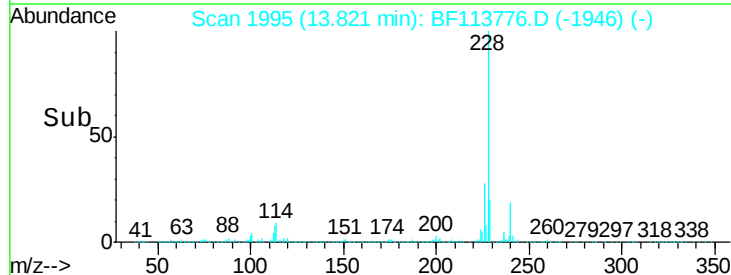
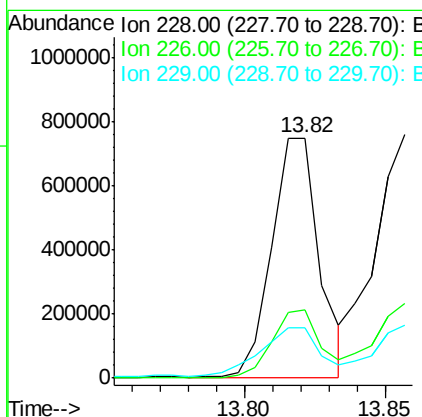
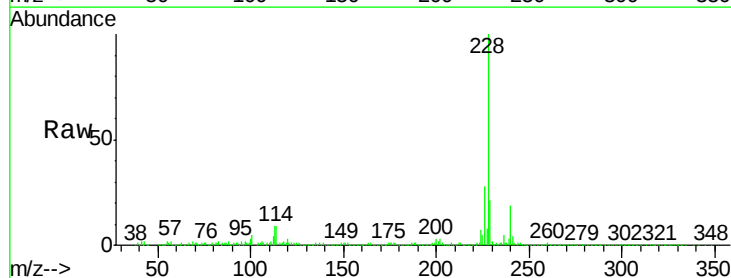
Instrument :
 BNA_F
 ClientSampleId :

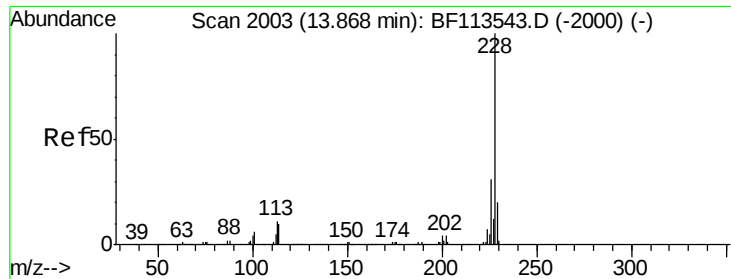
Tot Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.5	8.3
122	9.7	8.6	13.0



#81
 Benzo(a)anthracene
 Concen: 57.019 ng
 RT: 13.82 min Scan# 1995
 Delta R.T. -0.01 min
 Lab File: BF113776.D
 Acq: 15 Apr 2019 21:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	21.8	32.8
229	20.8	16.2	24.4

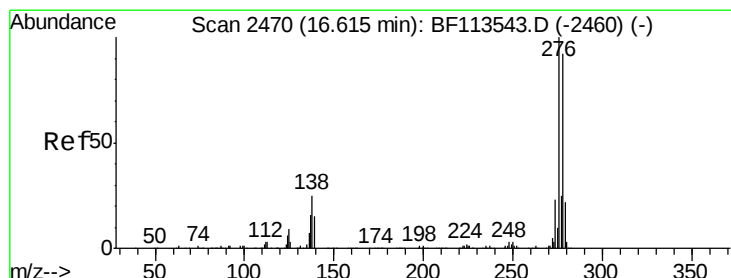
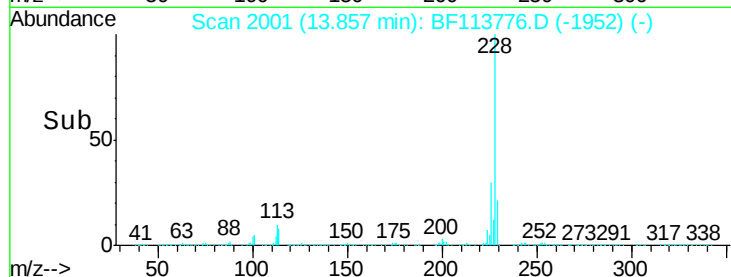
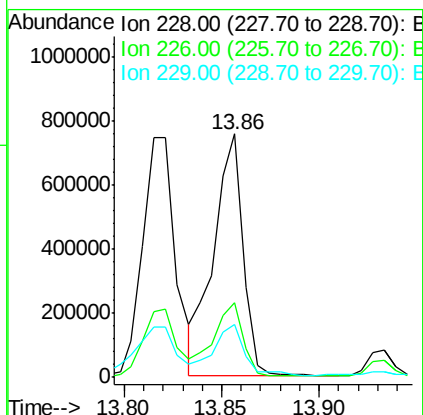
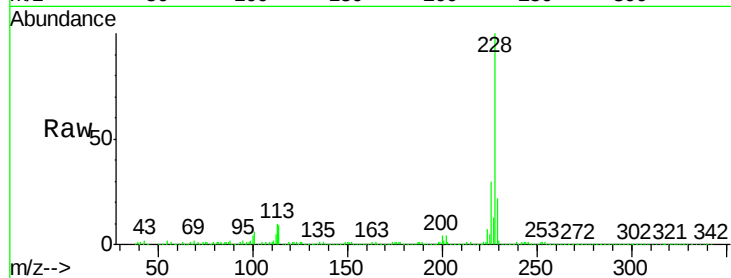




#83
Chrysene
Concen: 51.769 ng
RT: 13.86 min Scan# 2001
Delta R.T. -0.01 min
Lab File: BF113776.D
Acq: 15 Apr 2019 21:32

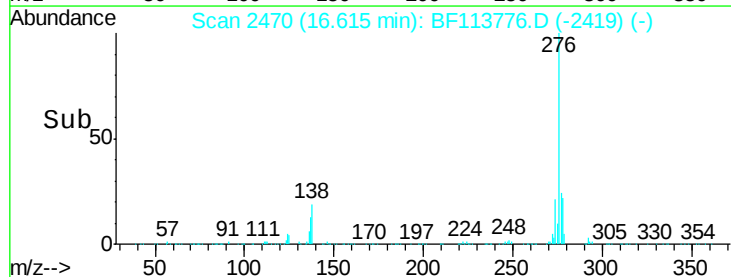
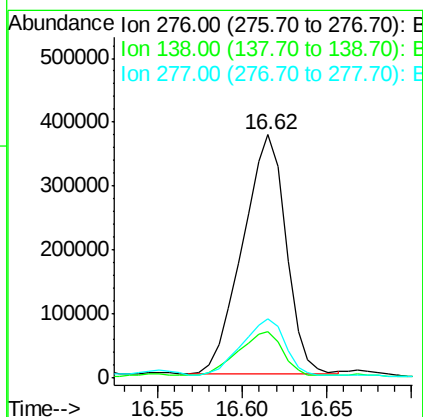
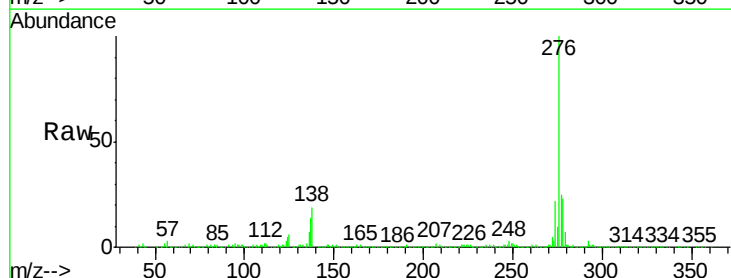
Instrument :
BNA_F
ClientSampleId :

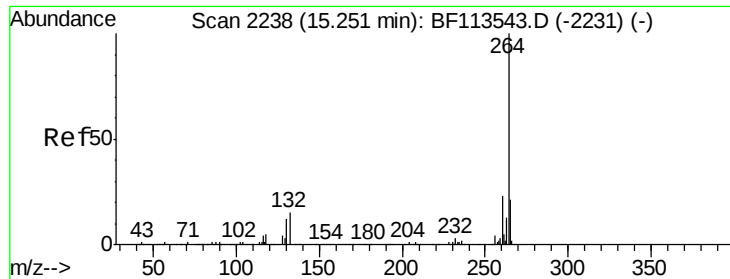
Tot Ion:228 Resp: 802321
Ion Ratio Lower Upper
228 100
226 30.4 24.3 36.5
229 21.9 16.3 24.5



#86
Indeno(1,2,3-cd)pyrene
Concen: 47.031 ng
RT: 16.62 min Scan# 2470
Delta R.T. 0.00 min
Lab File: BF113776.D
Acq: 15 Apr 2019 21:32

Tgt Ion:276 Resp: 672973
Ion Ratio Lower Upper
276 100
138 19.7 18.1 27.1
277 23.7 20.2 30.4





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.24 min Scan# 2237

Delta R.T. -0.01 min

Lab File: BF113776.D

Acq: 15 Apr 2019 21:32

Instrument :

BNA_F

ClientSampleId :

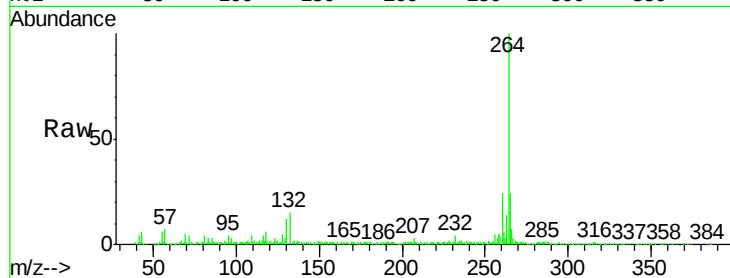
Tot Ion:264 Resp: 316836

Ion Ratio Lower Upper

264 100

260 23.7 19.1 28.7

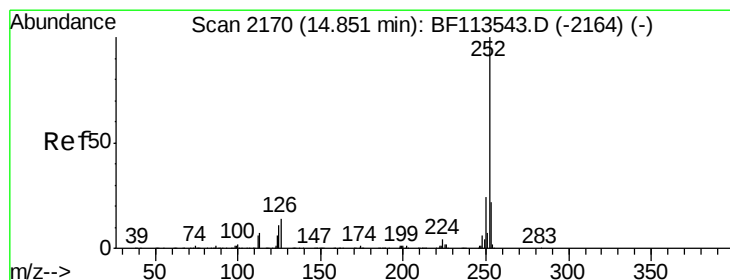
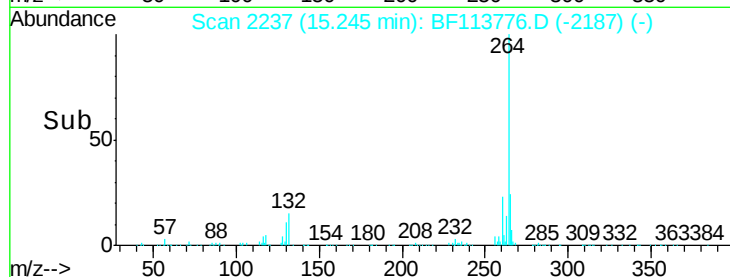
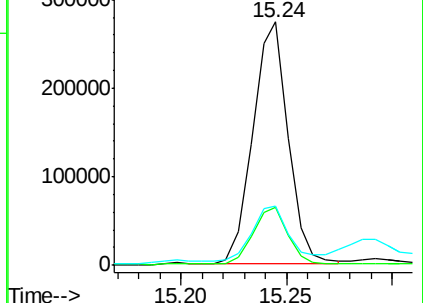
265 24.1 17.1 25.7



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 94.757 ng

RT: 14.85 min Scan# 2170

Delta R.T. 0.00 min

Lab File: BF113776.D

Acq: 15 Apr 2019 21:32

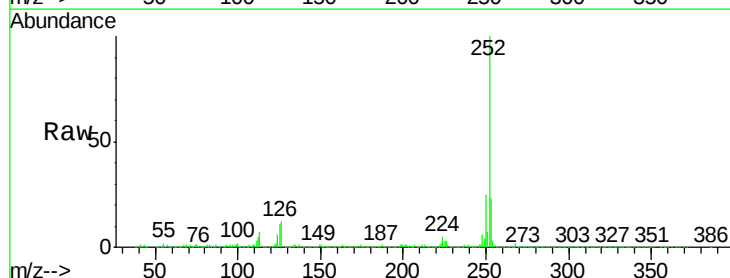
Tgt Ion:252 Resp: 1837740

Ion Ratio Lower Upper

252 100

253 22.9 18.0 27.0

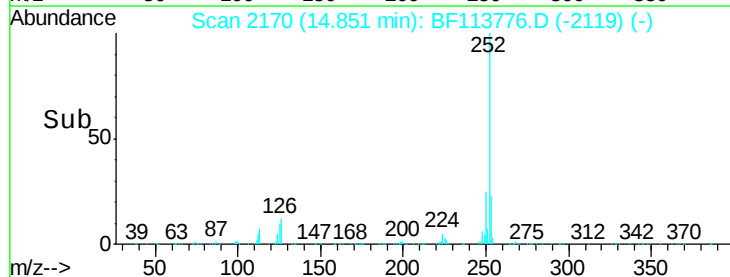
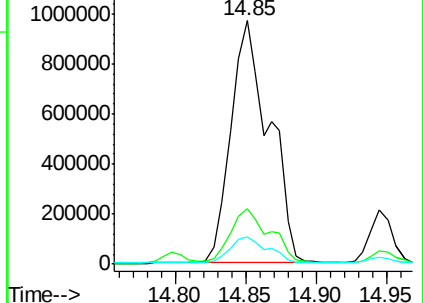
125 11.0 7.6 11.4

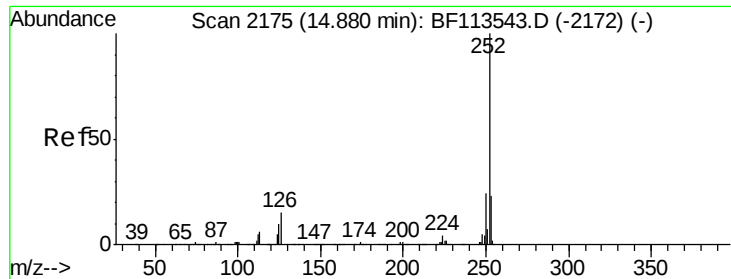


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

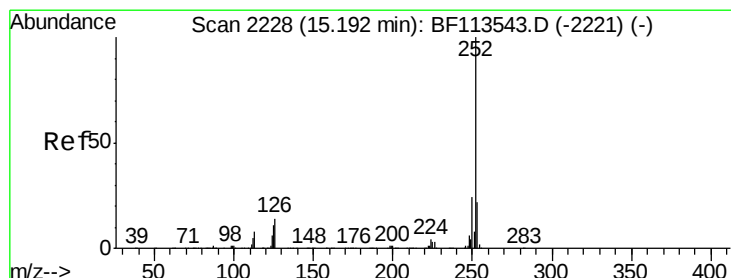
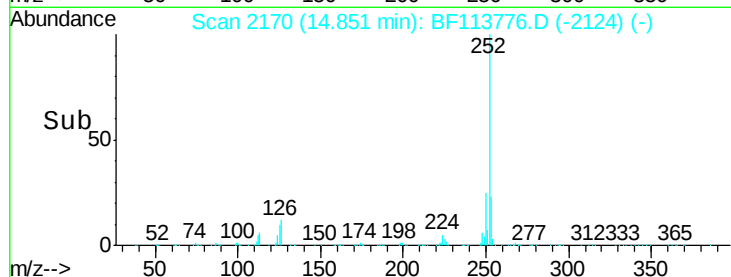
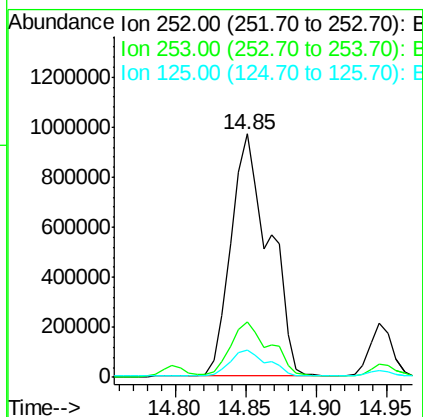
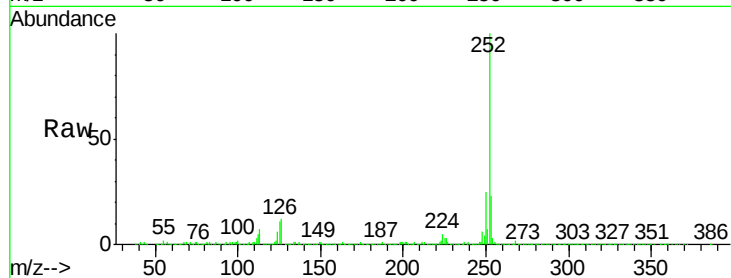




#89
Benzo(k)fluoranthene
Concen: 105.581 ng
RT: 14.85 min Scan# 2170
Delta R.T. -0.03 min
Lab File: BF113776.D
Acq: 15 Apr 2019 21:32

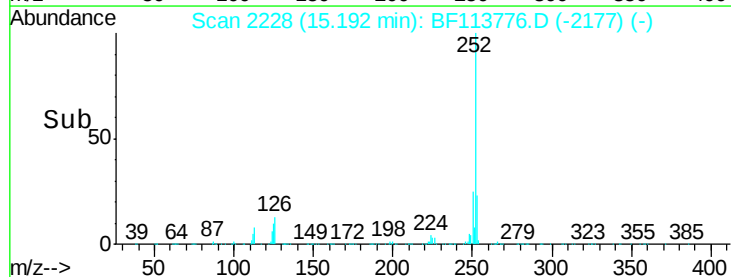
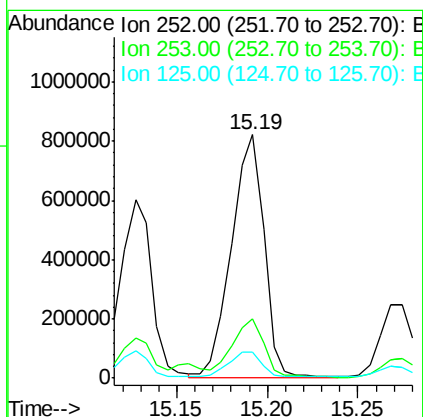
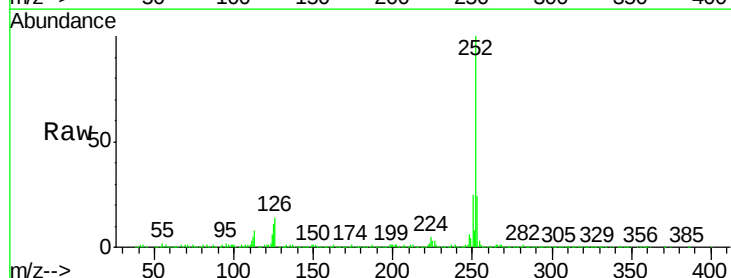
Instrument :
BNA_F
ClientSampleId :

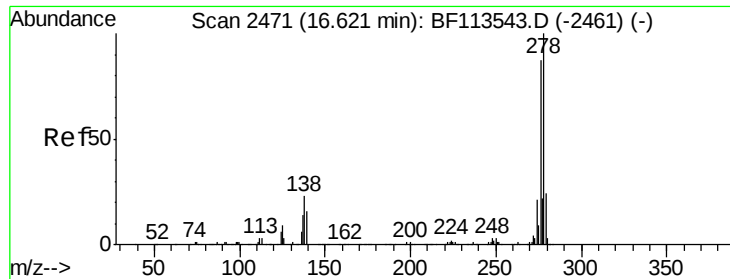
Tot Ion:252 Resp: 1837740
Ion Ratio Lower Upper
252 100
253 22.9 17.7 26.5
125 11.0 7.3 10.9#



#90
Benzo(a)pyrene
Concen: 59.381 ng
RT: 15.19 min Scan# 2228
Delta R.T. 0.00 min
Lab File: BF113776.D
Acq: 15 Apr 2019 21:32

Tgt Ion:252 Resp: 1023362
Ion Ratio Lower Upper
252 100
253 24.3 17.9 26.9
125 10.9 8.8 13.2

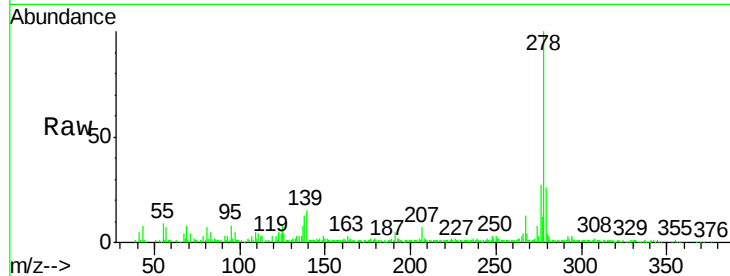




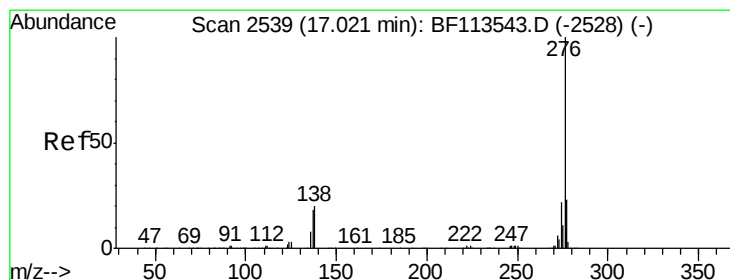
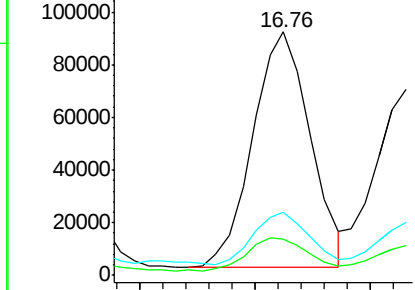
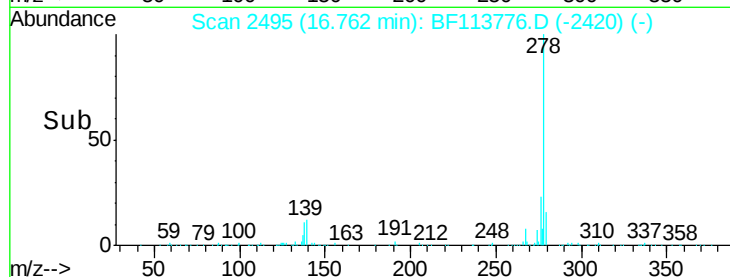
#91
Dibenzo(a,h)anthracene
Concen: 9.612 ng
RT: 16.76 min Scan# 2495
Delta R.T. 0.14 min
Lab File: BF113776.D
Acq: 15 Apr 2019 21:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:278 Resp: 154912
Ion Ratio Lower Upper
278 100
139 14.7 12.0 18.0
279 25.9 19.0 28.6

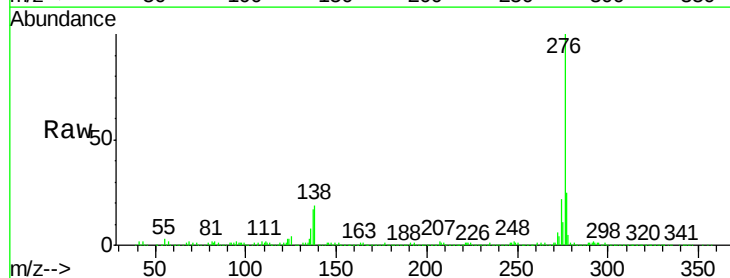


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 37.207 ng
RT: 17.03 min Scan# 2540
Delta R.T. 0.01 min
Lab File: BF113776.D
Acq: 15 Apr 2019 21:32

Tgt Ion:276 Resp: 612040
Ion Ratio Lower Upper
276 100
277 25.1 18.8 28.2
138 19.1 15.6 23.4



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

