

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031219\
 Data File : BF113026.D
 Acq On : 13 Mar 2019 8:24
 Operator : JU/SJ
 Sample : K1650-12DL 5X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-6(4-5)DL

Quant Time: Mar 13 09:27:08 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	148191	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	521947	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	257068	20.00	ng	0.00
64) Phenanthrene-d10	11.24	188	471955	20.00	ng	0.00
76) Chrysene-d12	13.87	240	403100	20.00	ng	0.00
87) Perylene-d12	15.27	264	405919	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.33	112	180669	18.96	ng	-0.01
7) Phenol-d6	6.36	99	264496	22.10	ng	-0.01
23) Nitrobenzene-d5	7.29	82	139355	15.98	ng	-0.01
42) 2,4,6-Tribromophenol	10.54	330	67646	24.79	ng	0.00
45) 2-Fluorobiphenyl	9.09	172	306017	15.16	ng	0.00
79) Terphenyl-d14	12.82	244	278565	13.40	ng	0.00

Target Compounds

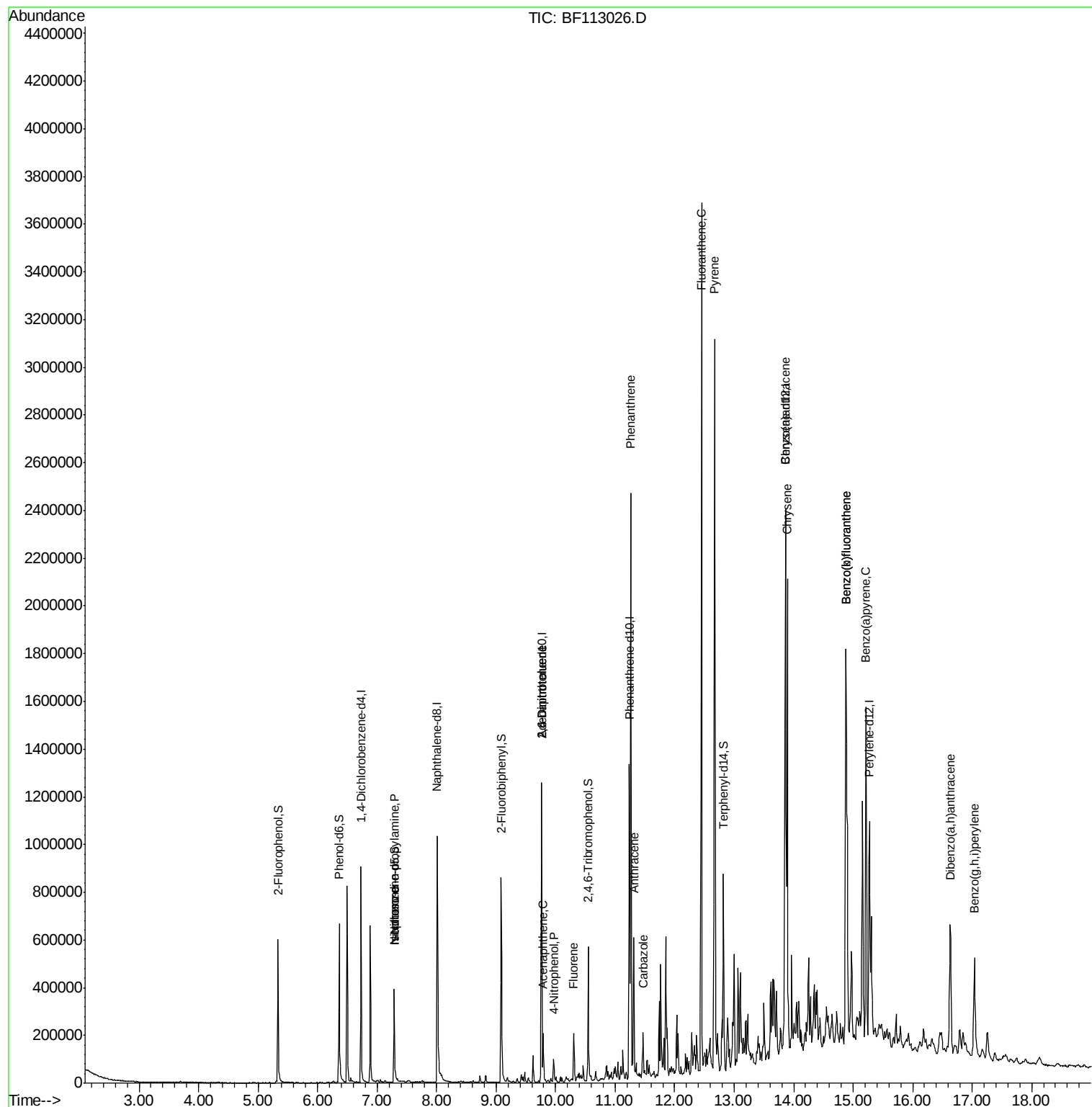
						Qvalue
19) n-Nitroso-di-n-propylamine	7.29	70	18510	2.442	ng	# 77
25) Isophorone	7.29	82	139375	7.417	ng	# 66
51) 2,6-Dinitrotoluene	9.76	165	32804	8.311	ng	# 18
52) Acenaphthene	9.79	154	40598	2.498	ng	97
56) 4-Nitrophenol	9.97	139	13618	3.484	ng	# 6
57) 2,4-Dinitrotoluene	9.76	165	32804	6.686	ng	# 18
58) Fluorene	10.30	166	63733	3.801	ng	99
71) Phenanthrene	11.26	178	917150	39.058	ng	99
72) Anthracene	11.32	178	271535	11.047	ng	97
73) Carbazole	11.47	167	80988	3.378	ng	97
75) Fluoranthene	12.45	202	1529894	60.812	ng	97
78) Pyrene	12.67	202	1368917	40.283	ng	99
81) Benzo(a)anthracene	13.86	228	827479	29.619	ng	98
83) Chrysene	13.89	228	721390	26.361	ng	97
88) Benzo(b)fluoranthene	14.88	252	1291645	49.194	ng	97
89) Benzo(k)fluoranthene	14.88	252	1291645	54.310	ng	97
90) Benzo(a)pyrene	15.22	252	681321	29.337	ng	96
91) Dibenzo(a,h)anthracene	16.64	278	99029	4.997	ng	96
92) Benzo(g,h,i)perylene	17.04	276	328814	16.524	ng	96

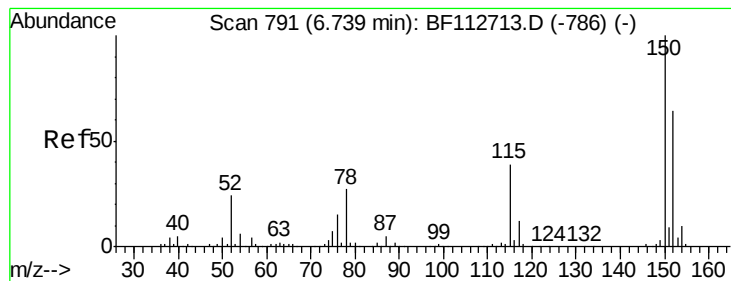
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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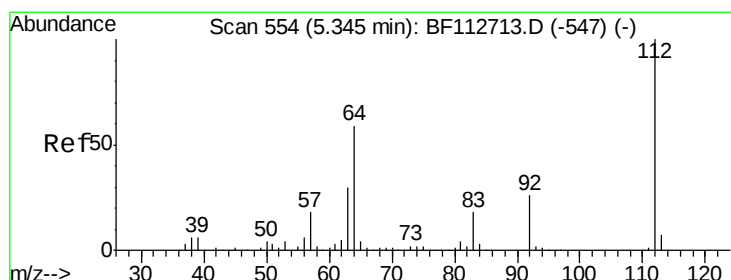
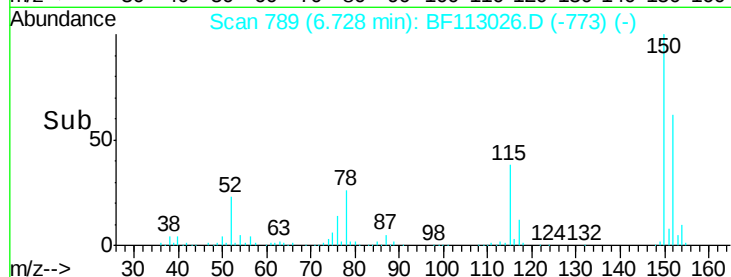
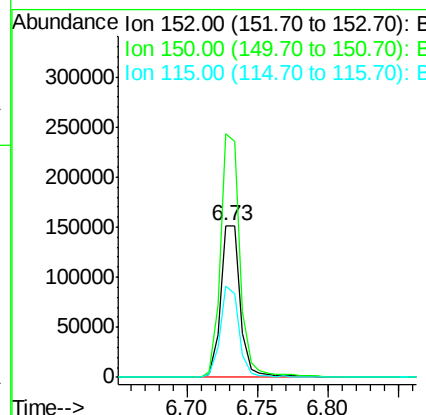
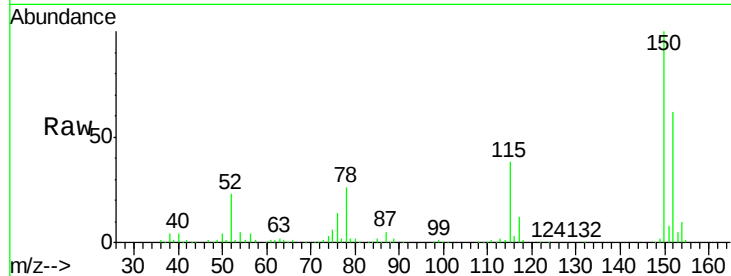


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Instrument :
BNA_F
ClientSampleId :
B-6(4-5)DL

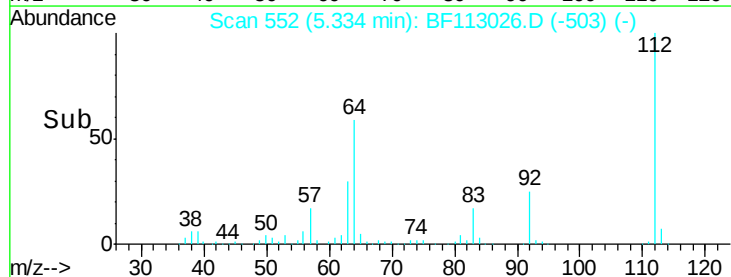
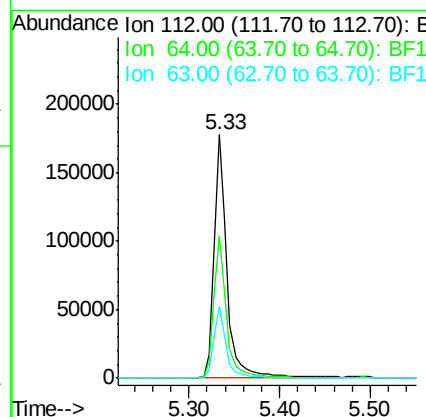
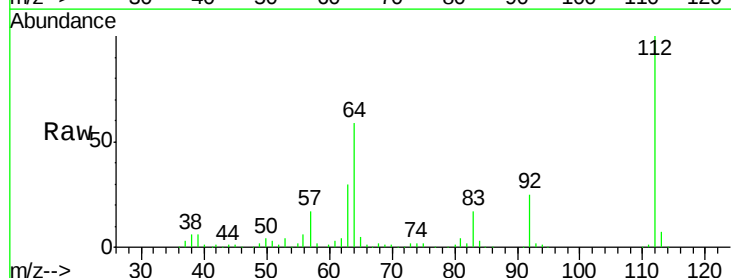
Tgt Ion:152 Resp: 148191
Ion Ratio Lower Upper
152 100
150 160.2 124.2 186.2
115 60.2 48.2 72.4

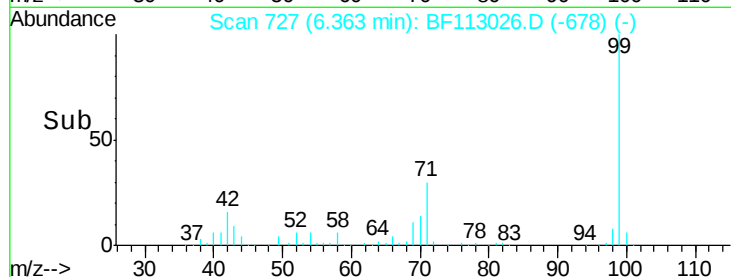
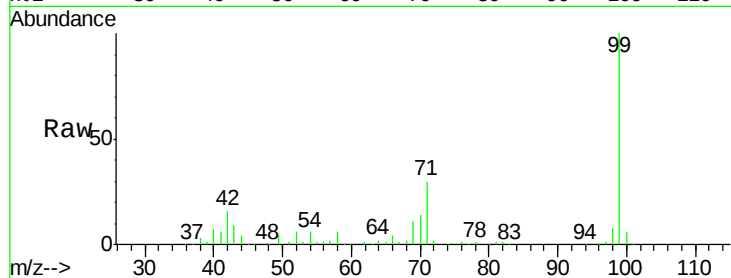
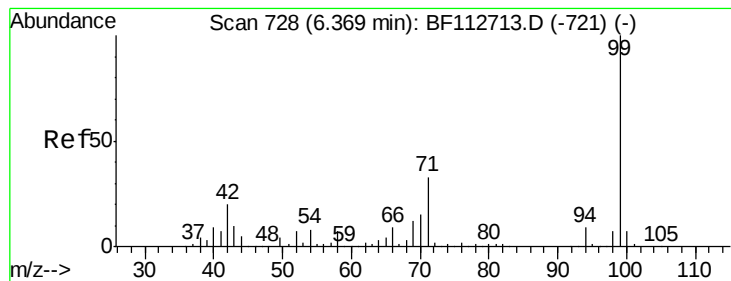


#5

2-Fluorophenol
Concen: 18.965 ng
RT: 5.33 min Scan# 552
Delta R.T. -0.01 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Tgt Ion:112 Resp: 180669
Ion Ratio Lower Upper
112 100
64 58.8 47.6 71.4
63 29.7 24.4 36.6





#7

Phenol-d6

Concen: 22.102 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Instrument :

BNA_F

ClientSampleId :

B-6(4-5)DL

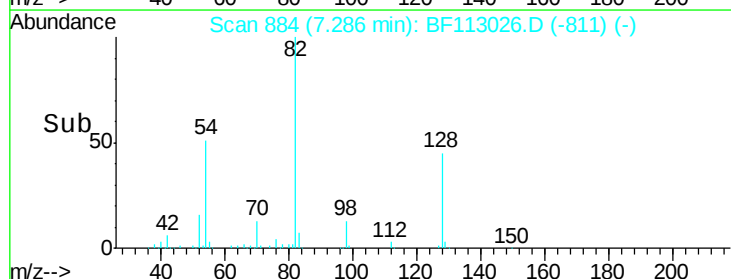
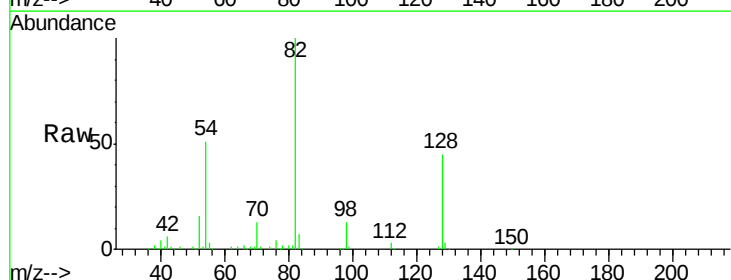
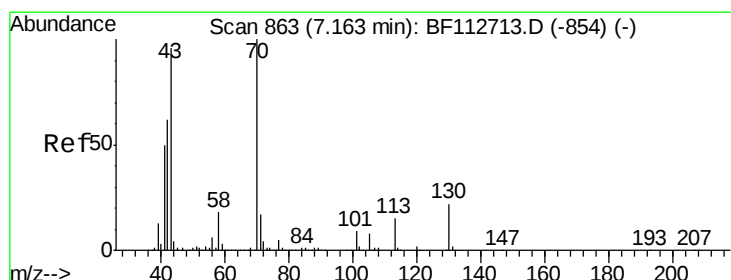
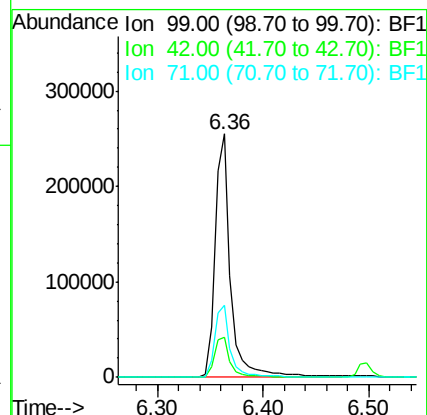
Tgt Ion: 99 Resp: 264496

Ion Ratio Lower Upper

99 100

42 16.4 16.3 24.5

71 29.6 26.2 39.4



#19

n-Nitroso-di-n-propylamine

Concen: 2.442 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.13 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Tgt Ion: 70 Resp: 18510

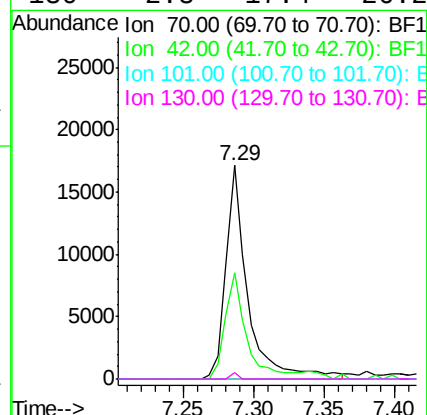
Ion Ratio Lower Upper

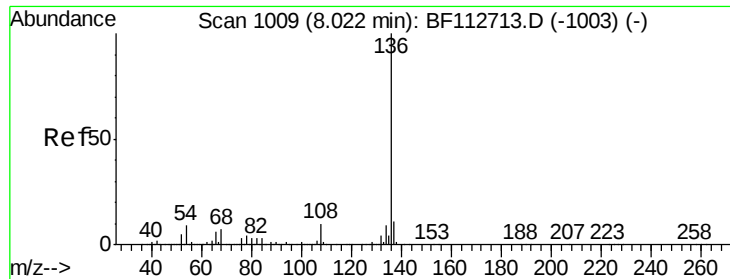
70 100

42 49.7 49.9 74.9#

101 0.0 7.4 11.2#

130 2.8 17.4 26.2#

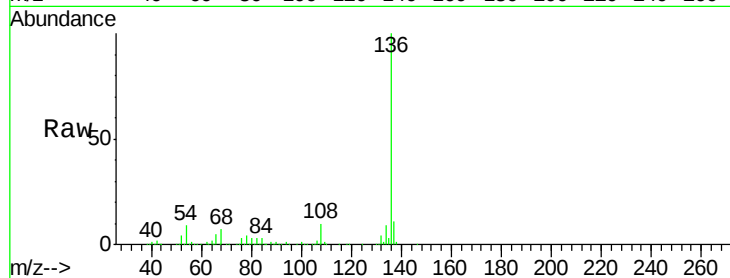




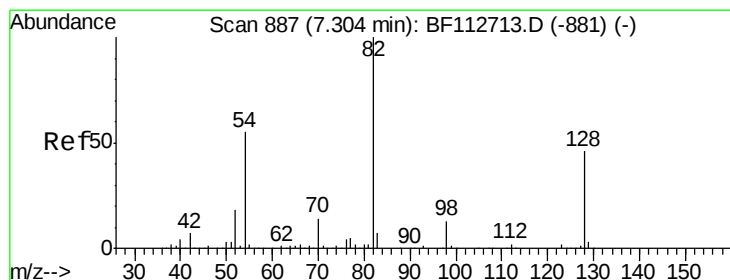
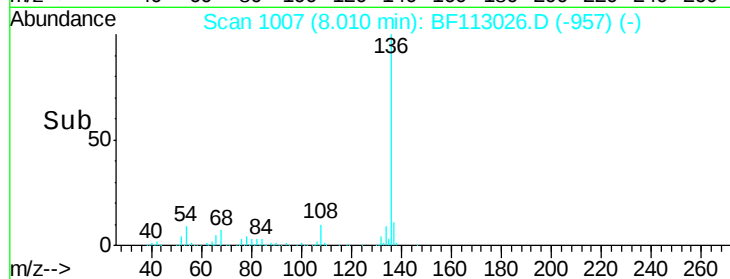
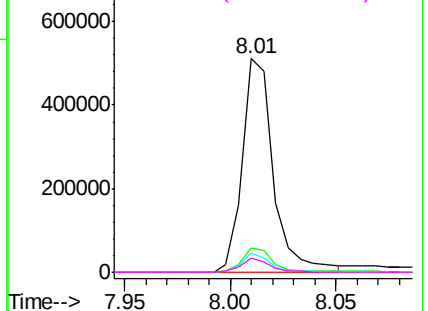
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Instrument :
BNA_F
ClientSampleId :
B-6(4-5)DL

Tgt Ion:	136	Resp:	521947
Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.9	13.3
54	8.8	7.3	10.9
68	6.5	5.4	8.2

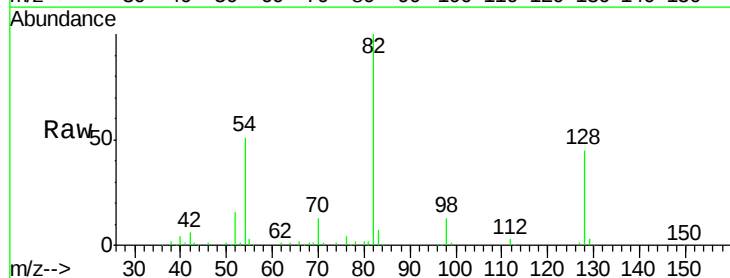


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

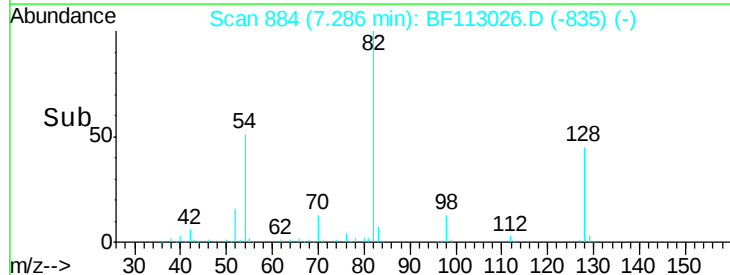
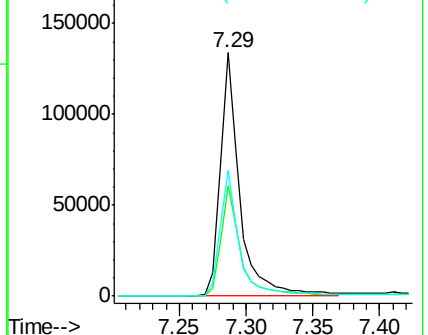


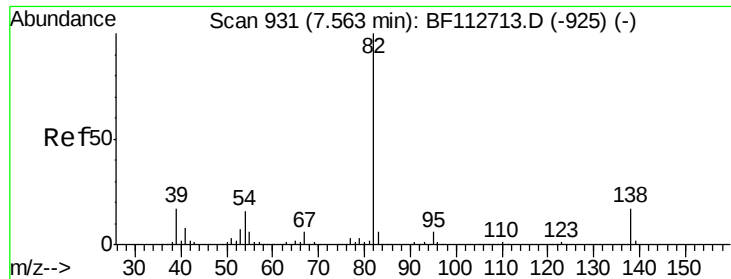
#23
Nitrobenzene-d5
Concen: 15.976 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Tgt Ion:	82	Resp:	139355
Ion	Ratio	Lower	Upper
82	100		
128	45.4	36.3	54.5
54	51.5	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: 7.417 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.27 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Instrument :

BNA_F

ClientSampleId :

B-6(4-5)DL

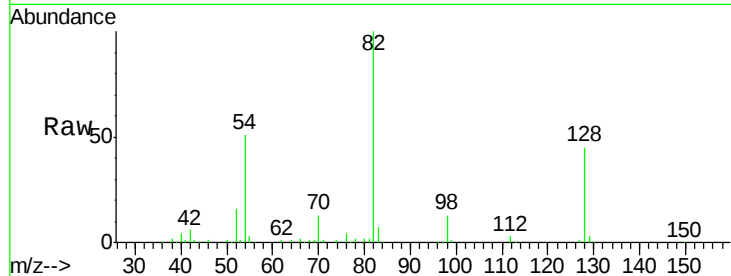
Tgt Ion: 82 Resp: 139375

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

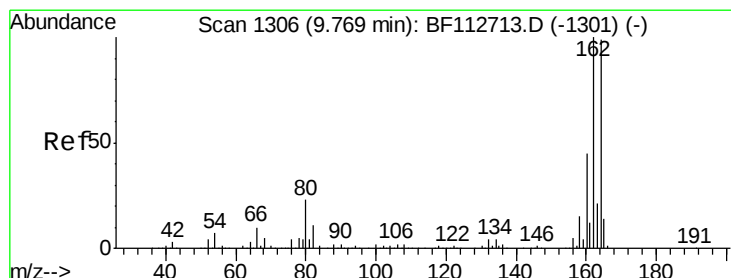
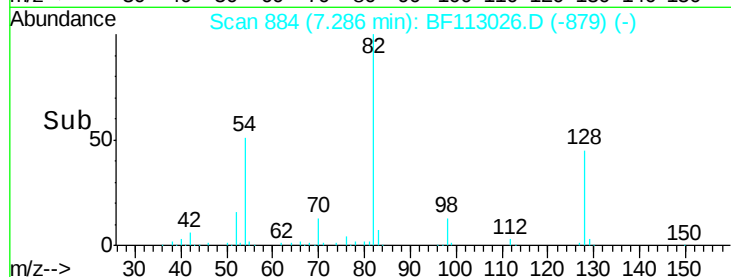
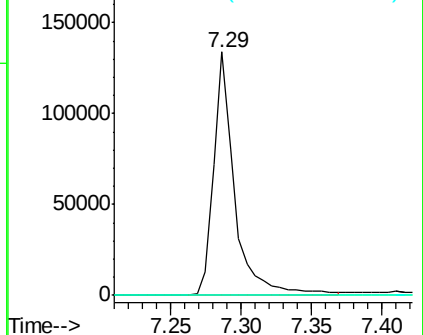
138 0.0 13.8 20.8#



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# 1305

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

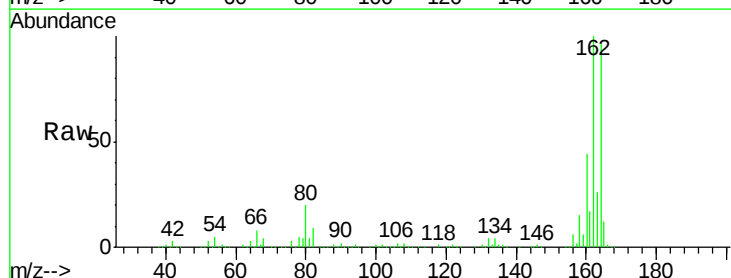
Tgt Ion: 164 Resp: 257068

Ion Ratio Lower Upper

164 100

162 102.7 80.6 120.8

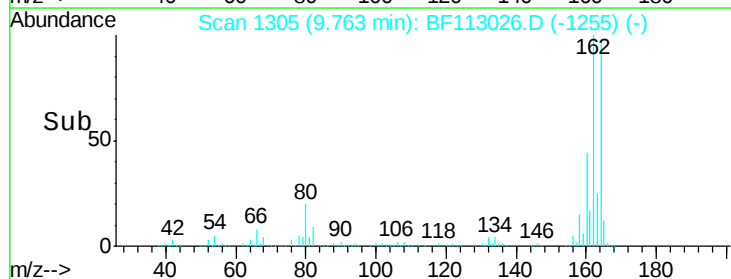
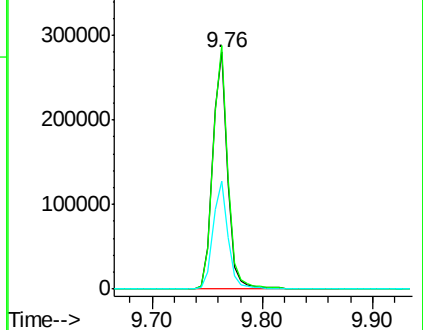
160 45.6 36.0 54.0



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

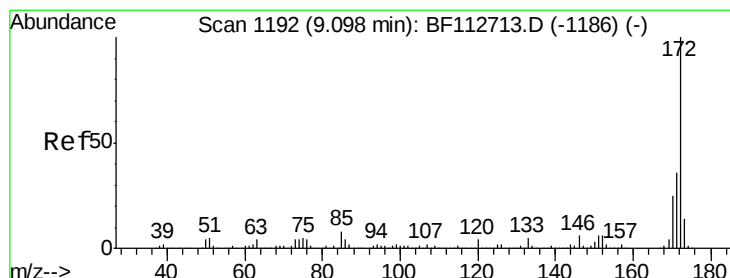
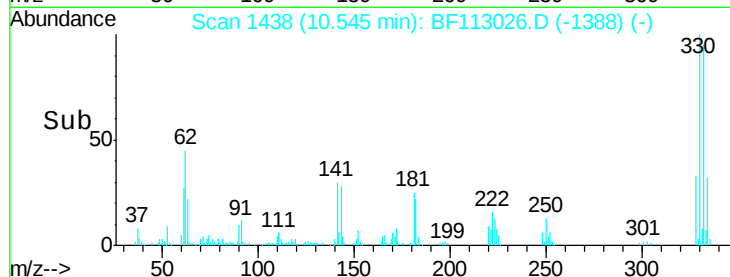
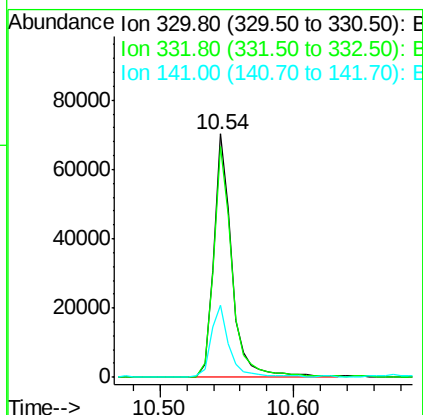
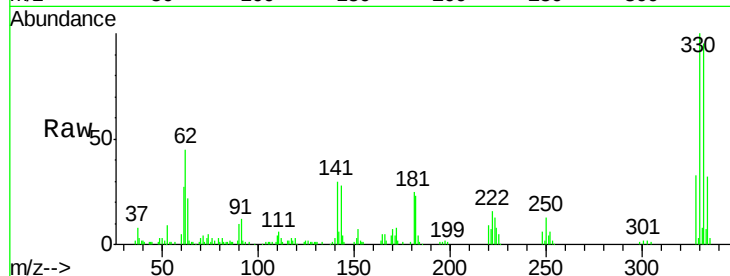




#42
 2,4,6-Tribromophenol
 Concen: 24.787 ng
 RT: 10.54 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF113026.D
 Acq: 13 Mar 2019 8:24

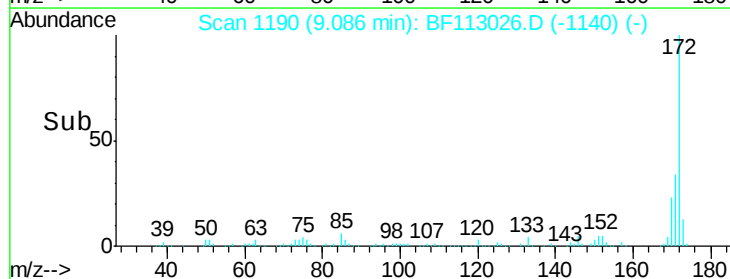
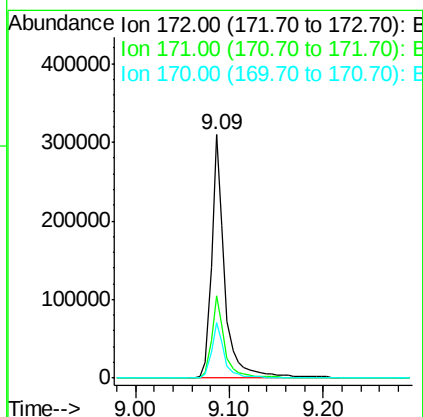
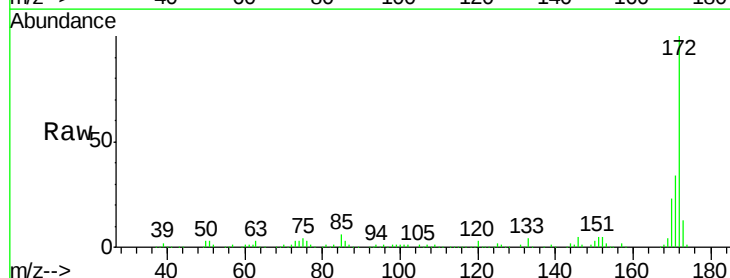
Instrument :
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 B-6(4-5)DL

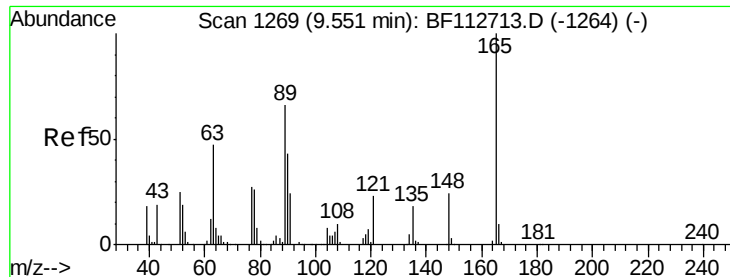
Tgt Ion:330 Resp: 67646
 Ion Ratio Lower Upper
 330 100
 332 96.6 76.2 114.4
 141 30.1 27.0 40.6



#45
 2-Fluorobiphenyl
 Concen: 15.157 ng
 RT: 9.09 min Scan# 1190
 Delta R.T. -0.01 min
 Lab File: BF113026.D
 Acq: 13 Mar 2019 8:24

Tgt Ion:172 Resp: 306017
 Ion Ratio Lower Upper
 172 100
 171 33.7 29.0 43.4
 170 22.6 20.0 30.0

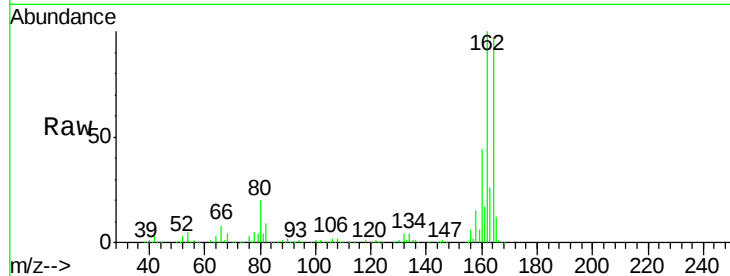




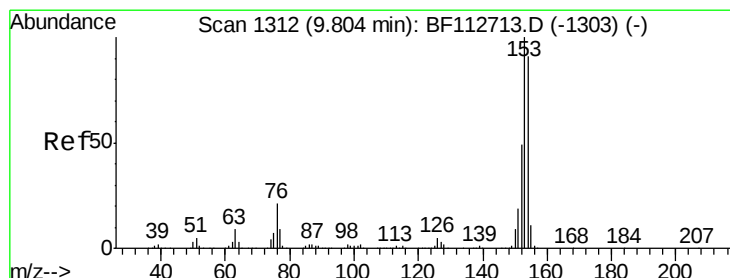
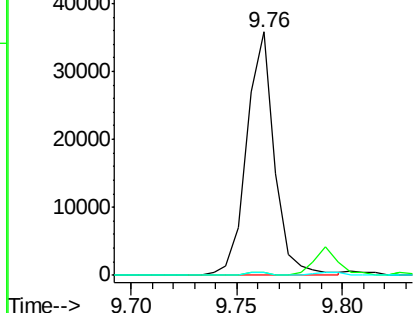
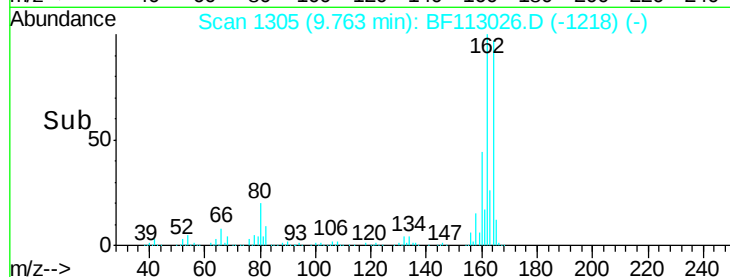
#51
 2,6-Dinitrotoluene
 Concen: 8.311 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. 0.21 min
 Lab File: BF113026.D
 Acq: 13 Mar 2019 8:24

Instrument :
 BNA_F
 ClientSampleId :
 B-6(4-5)DL

Tgt Ion:165 Resp: 32804
 Ion Ratio Lower Upper
 165 100
 63 1.3 54.1 81.1#
 89 1.3 52.8 79.2#

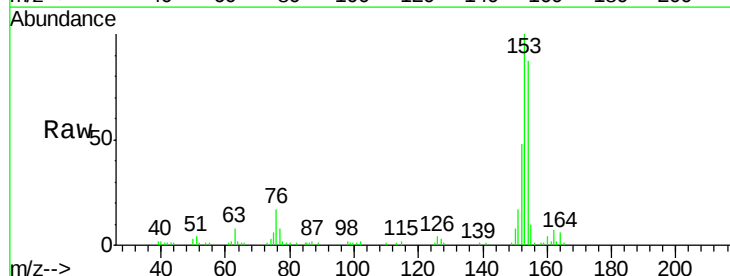


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

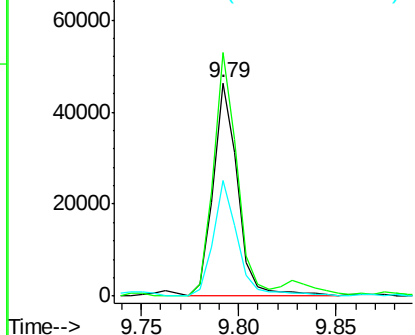
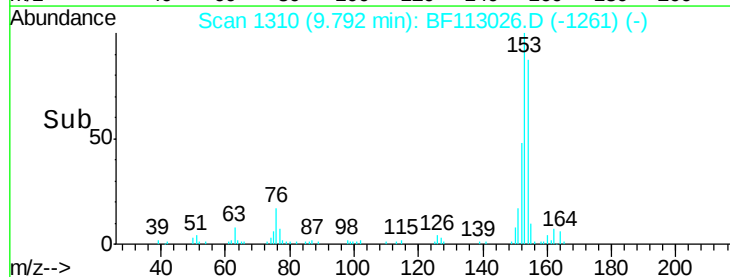


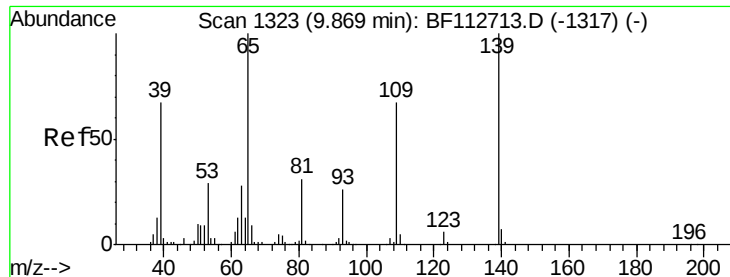
#52
 Acenaphthene
 Concen: 2.498 ng
 RT: 9.79 min Scan# 1310
 Delta R.T. -0.01 min
 Lab File: BF113026.D
 Acq: 13 Mar 2019 8:24

Tgt Ion:154 Resp: 40598
 Ion Ratio Lower Upper
 154 100
 153 114.4 87.8 131.8
 152 54.5 43.0 64.6



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 152.00 (151.70 to 152.70): E

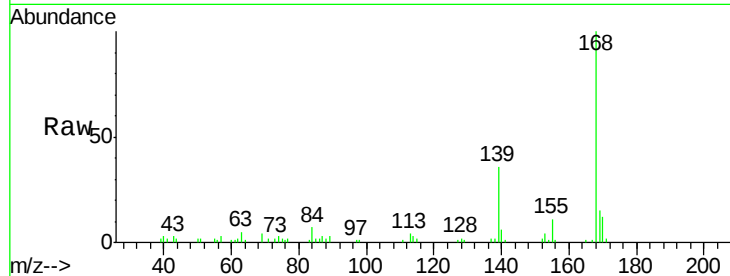




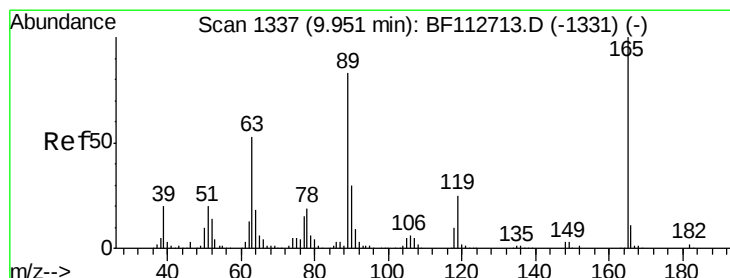
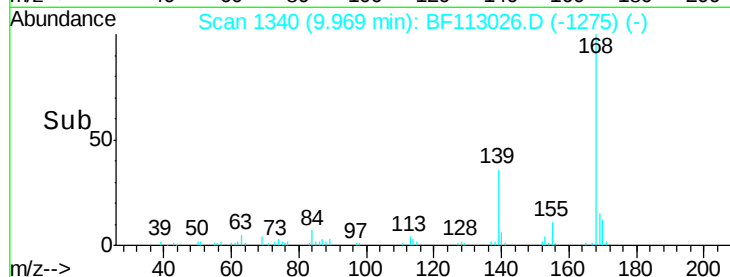
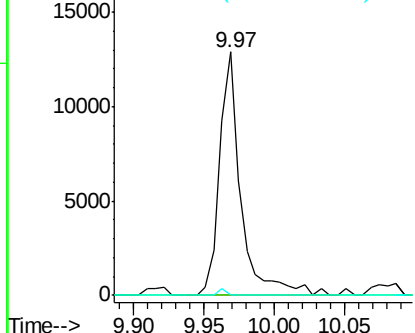
#56
4-Nitrophenol
Concen: 3.484 ng
RT: 9.97 min Scan# 1340
Delta R.T. 0.08 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Instrument :
BNA_F
ClientSampleId :
B-6(4-5)DL

Tgt Ion:139 Resp: 13618
Ion Ratio Lower Upper
139 100
109 0.0 46.8 86.8#
65 0.0 80.7 120.7#

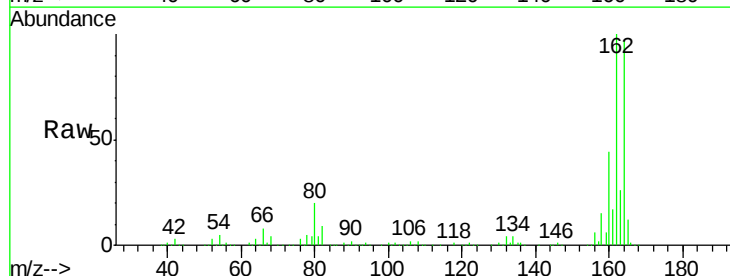


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

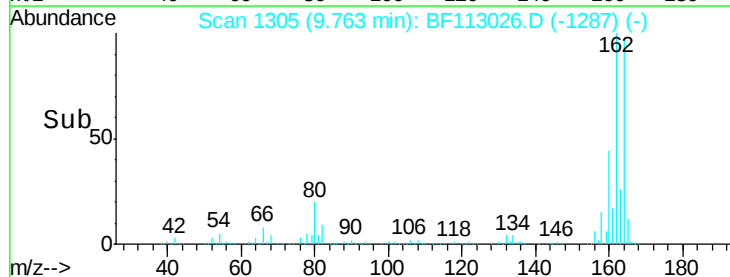
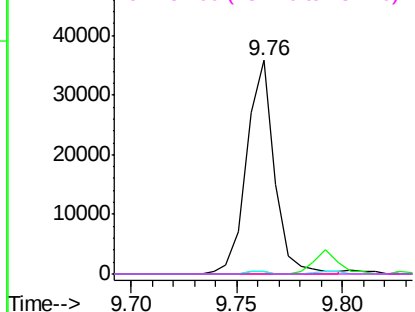


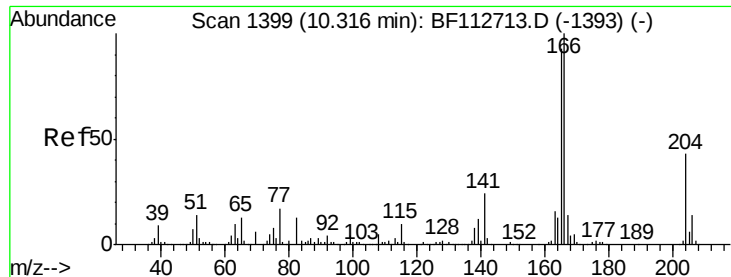
#57
2,4-Dinitrotoluene
Concen: 6.686 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.19 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Tgt Ion:165 Resp: 32804
Ion Ratio Lower Upper
165 100
63 1.3 42.2 63.2#
89 1.3 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





#58

Fluorene

Concen: 3.801 ng

RT: 10.30 min Scan# 1397

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Instrument :

BNA_F

ClientSampleId :

B-6(4-5)DL

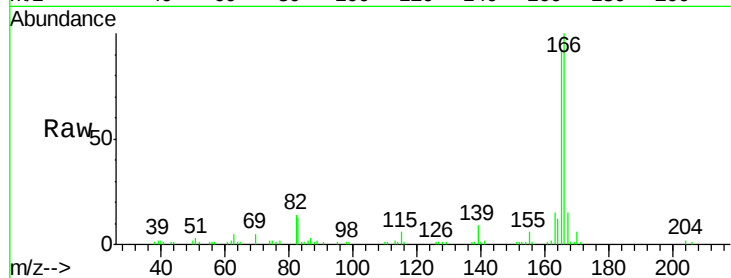
Tgt Ion:166 Resp: 63733

Ion Ratio Lower Upper

166 100

165 92.3 74.7 112.1

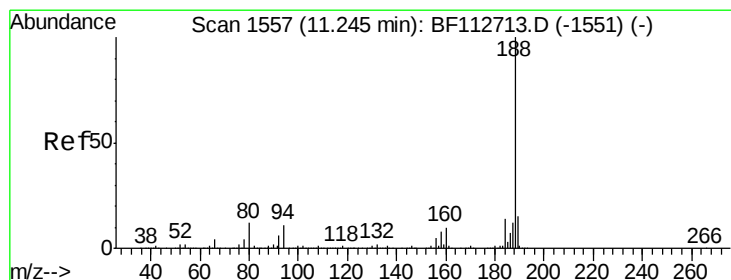
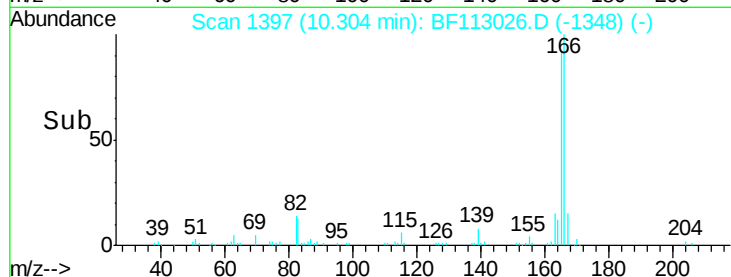
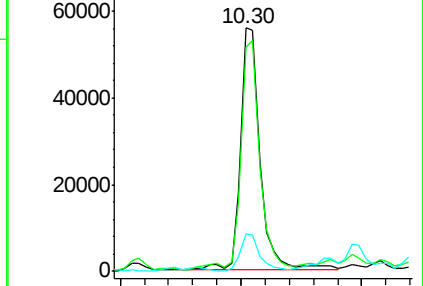
167 15.3 11.0 16.6



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.24 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

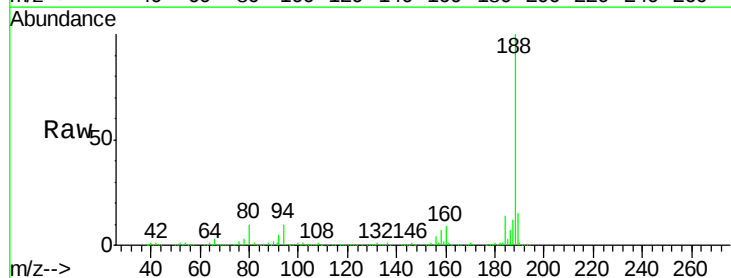
Tgt Ion:188 Resp: 471955

Ion Ratio Lower Upper

188 100

94 9.7 9.0 13.4

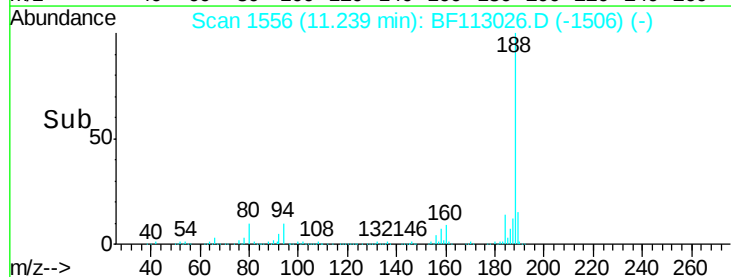
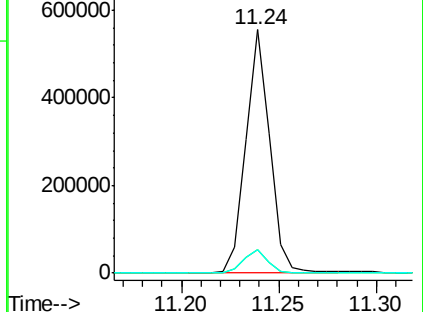
80 9.8 9.2 13.8

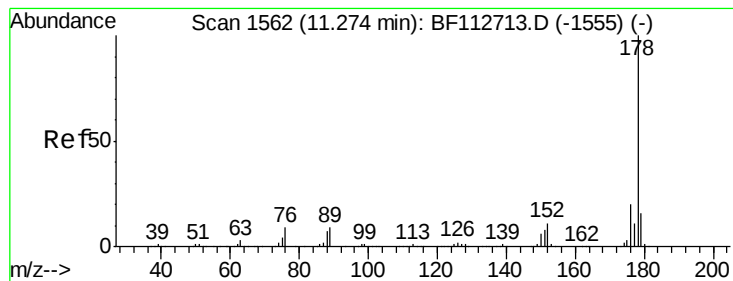


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 39.058 ng

RT: 11.26 min Scan# 1560

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Instrument :

BNA_F

ClientSampleId :

B-6(4-5)DL

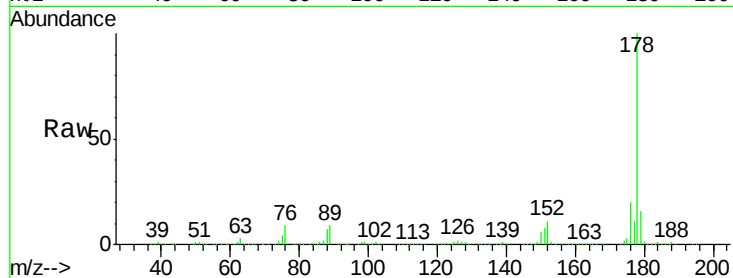
Tgt Ion:178 Resp: 917150

Ion Ratio Lower Upper

178 100

176 19.7 16.3 24.5

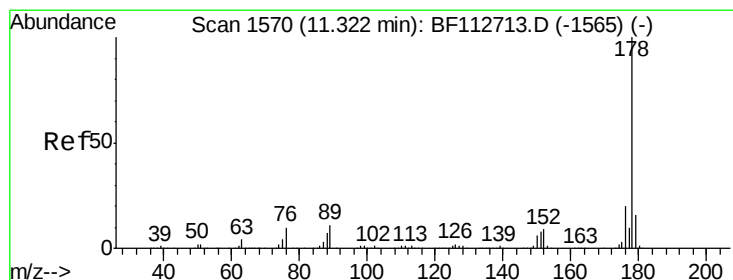
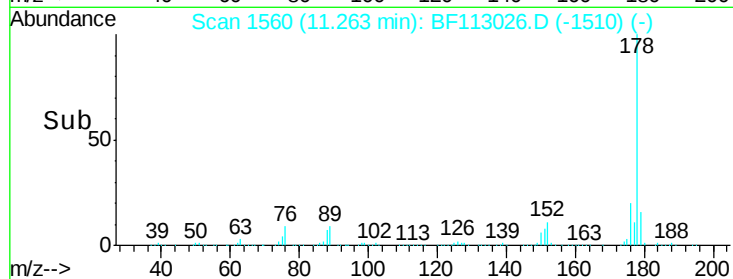
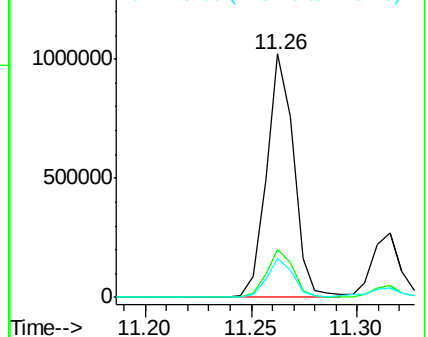
179 15.8 12.7 19.1



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: 11.047 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

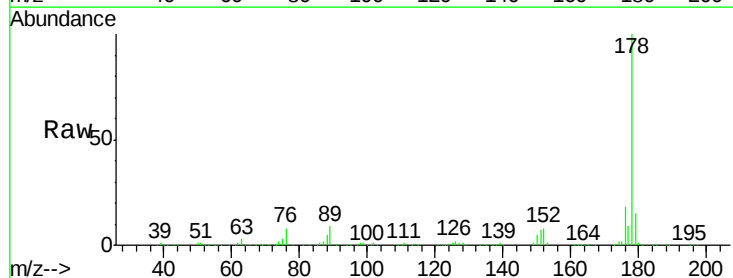
Tgt Ion:178 Resp: 271535

Ion Ratio Lower Upper

178 100

176 18.2 15.8 23.6

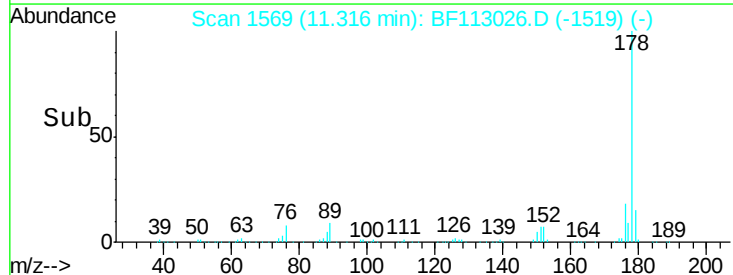
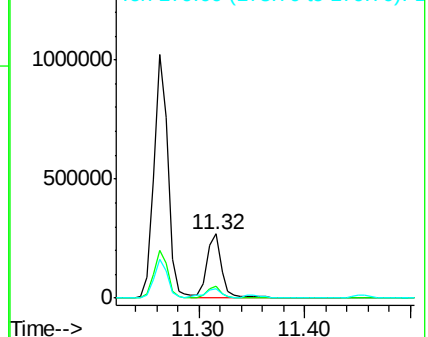
179 15.5 13.0 19.6

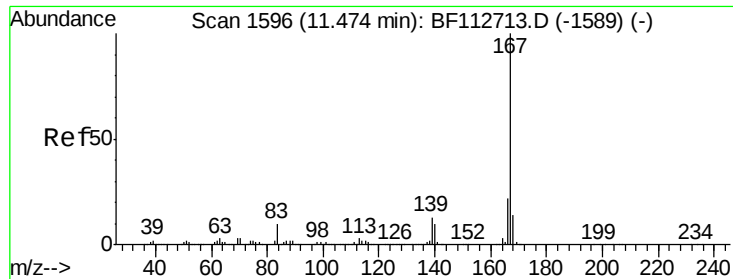


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

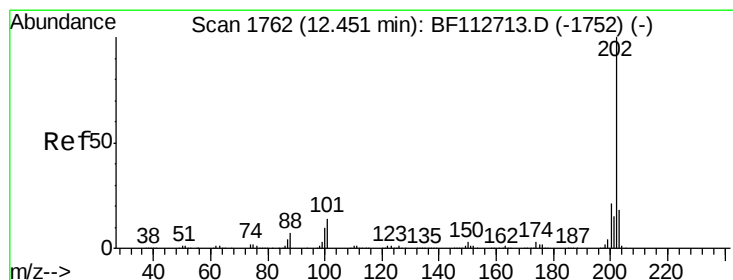
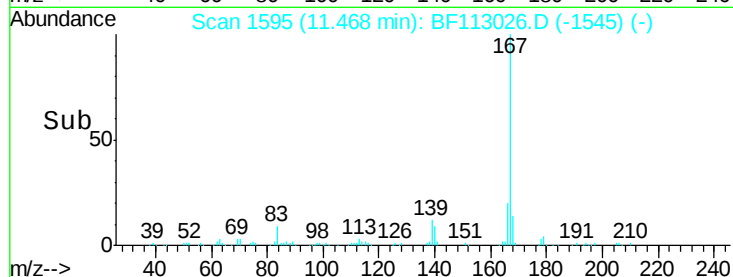
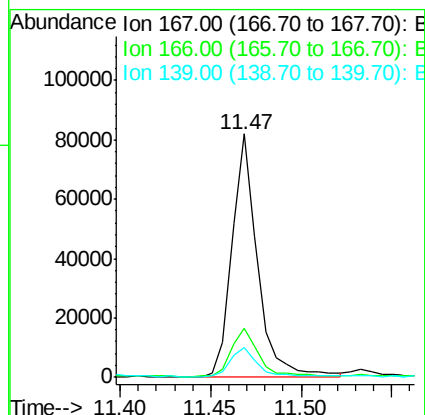
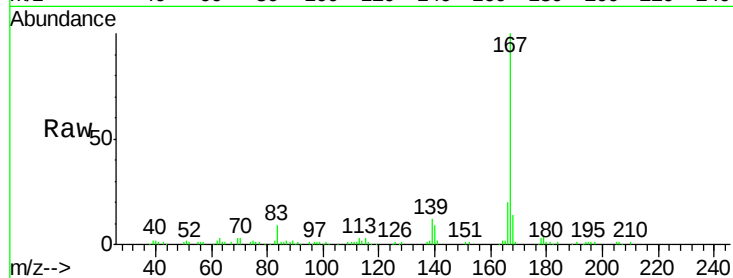




#73
 Carbazole
 Concen: 3.378 ng
 RT: 11.47 min Scan# 1595
 Delta R.T. -0.01 min
 Lab File: BF113026.D
 Acq: 13 Mar 2019 8:24

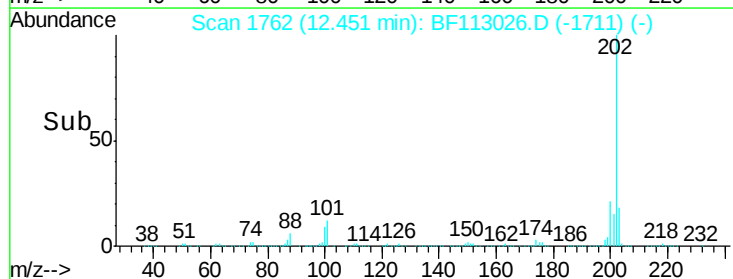
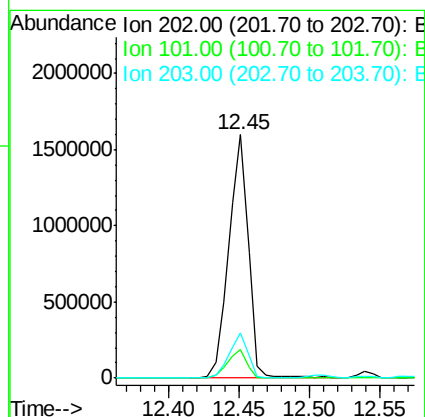
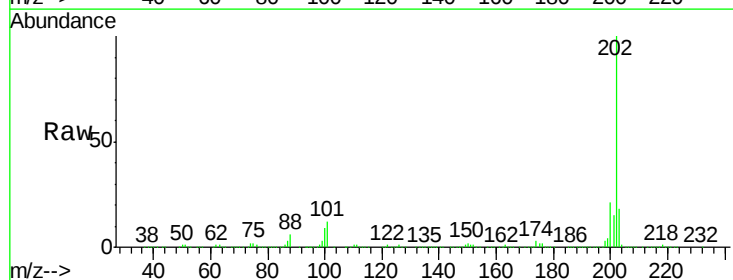
Instrument :
 BNA_F
 ClientSampleId :
 B-6(4-5)DL

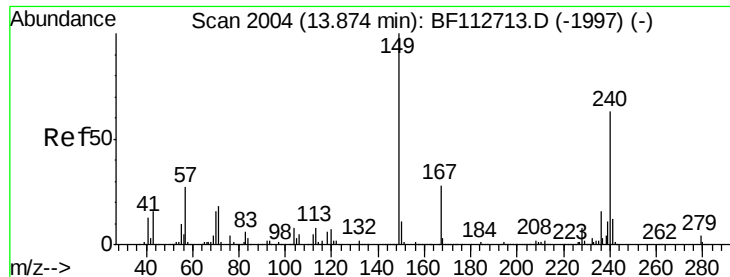
Tgt Ion:167 Resp: 80988
 Ion Ratio Lower Upper
 167 100
 166 20.2 17.5 26.3
 139 12.3 10.8 16.2



#75
 Fluoranthene
 Concen: 60.812 ng
 RT: 12.45 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: BF113026.D
 Acq: 13 Mar 2019 8:24

Tgt Ion:202 Resp: 1529894
 Ion Ratio Lower Upper
 202 100
 101 11.5 0.0 33.8
 203 18.3 0.0 38.4

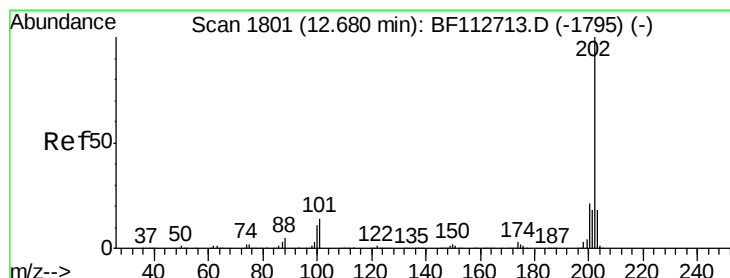
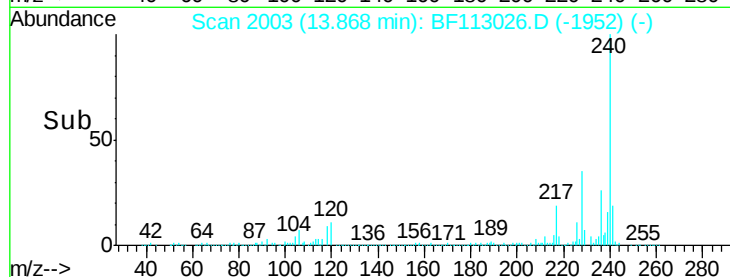
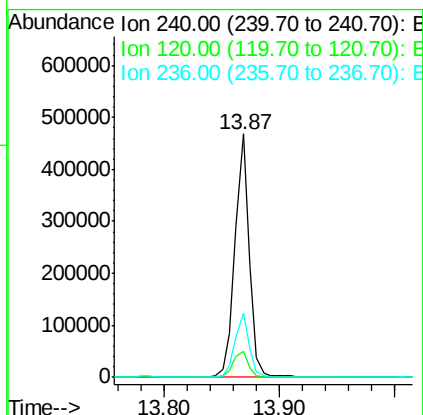
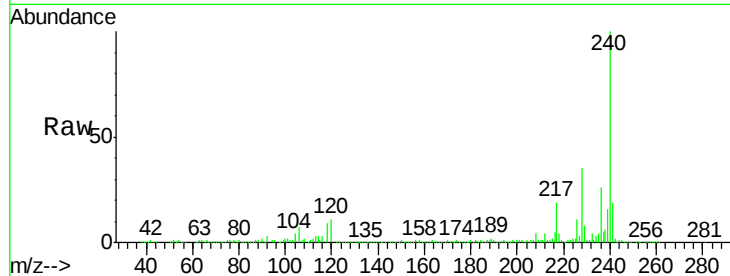




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.87 min Scan# 2003
Delta R.T. -0.00 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

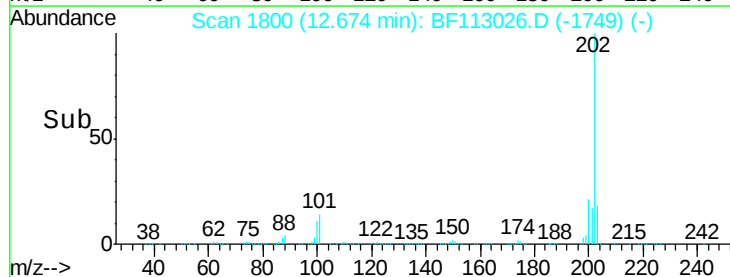
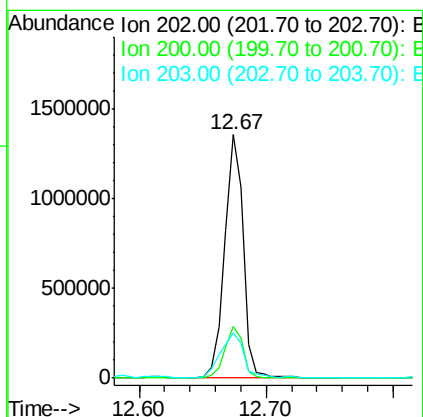
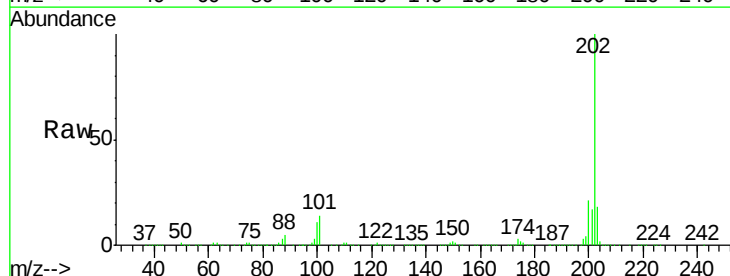
Instrument :
BNA_F
ClientSampleId :
B-6(4-5)DL

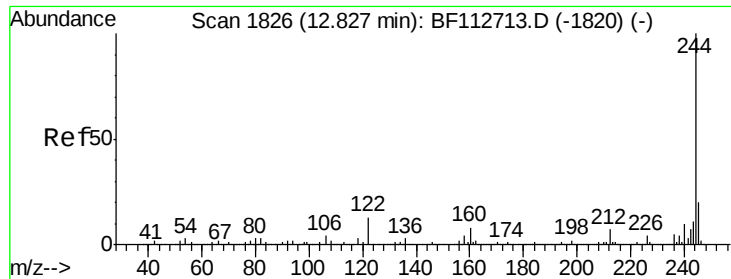
Tgt Ion:240 Resp: 403100
Ion Ratio Lower Upper
240 100
120 10.8 8.9 13.3
236 26.3 20.7 31.1



#78
Pyrene
Concen: 40.283 ng
RT: 12.67 min Scan# 1800
Delta R.T. -0.00 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Tgt Ion:202 Resp: 1368917
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 18.5 14.4 21.6





#79

Terphenyl-d14

Concen: 13.396 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Instrument :

BNA_F

ClientSampleId :

B-6(4-5)DL

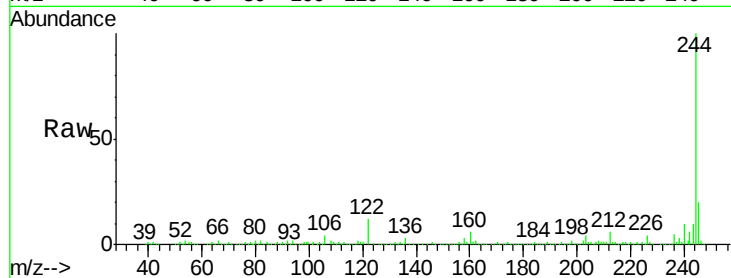
Tgt Ion:244 Resp: 278565

Ion Ratio Lower Upper

244 100

212 6.3 5.6 8.4

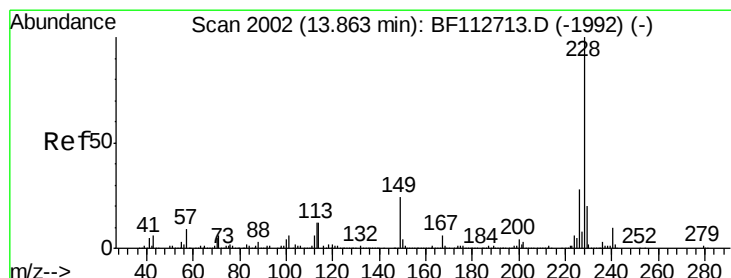
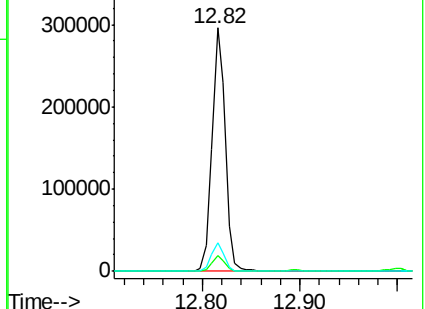
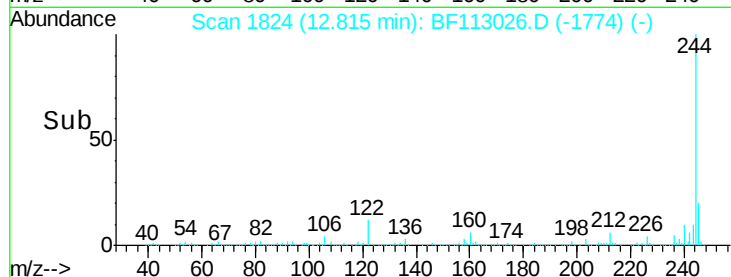
122 12.0 10.5 15.7



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: 29.619 ng

RT: 13.86 min Scan# 2001

Delta R.T. -0.00 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

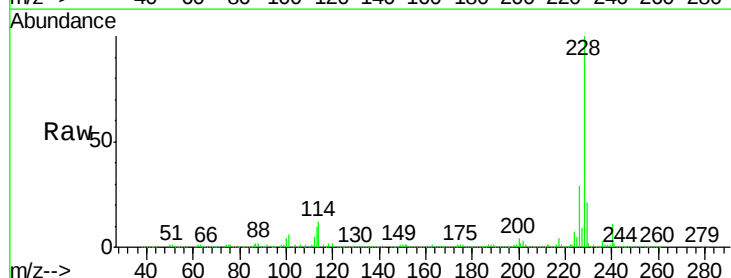
Tgt Ion:228 Resp: 827479

Ion Ratio Lower Upper

228 100

226 29.2 22.2 33.4

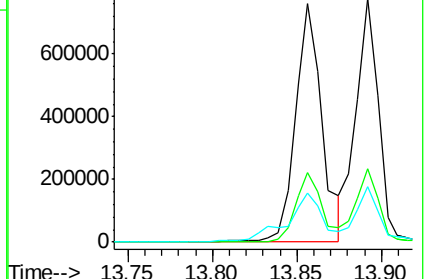
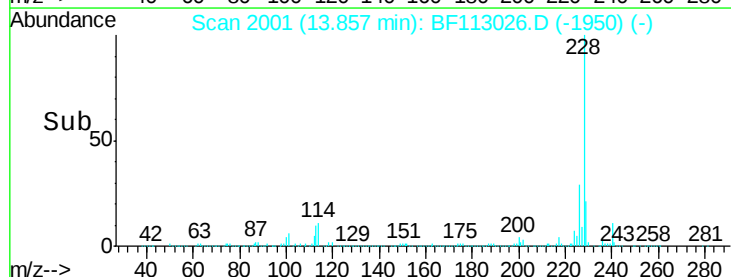
229 20.7 16.0 24.0

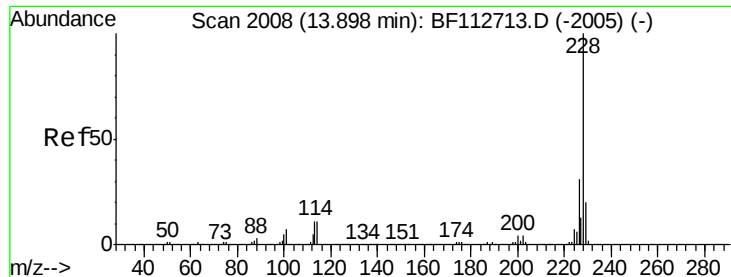


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 26.361 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Instrument :

BNA_F

ClientSampleId :

B-6(4-5)DL

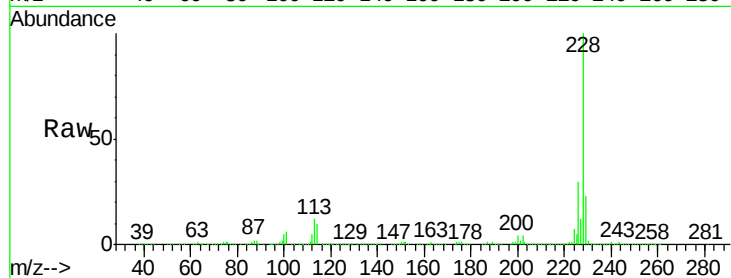
Tgt Ion:228 Resp: 721390

Ion Ratio Lower Upper

228 100

226 30.2 24.9 37.3

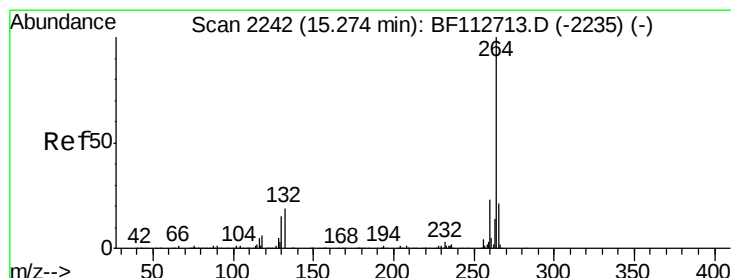
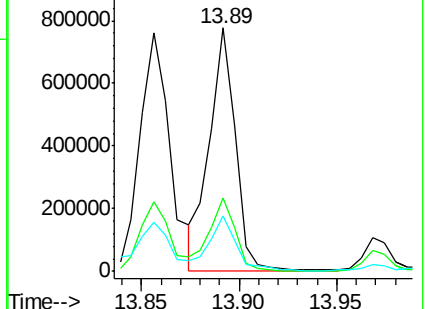
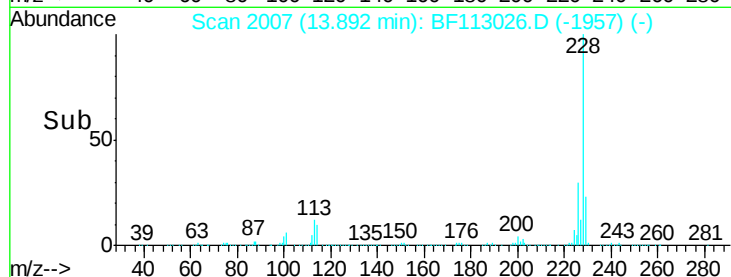
229 22.9 16.3 24.5



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

Perylene-d12

Concen: 20.000 ng

RT: 15.27 min Scan# 2242

Delta R.T. -0.00 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

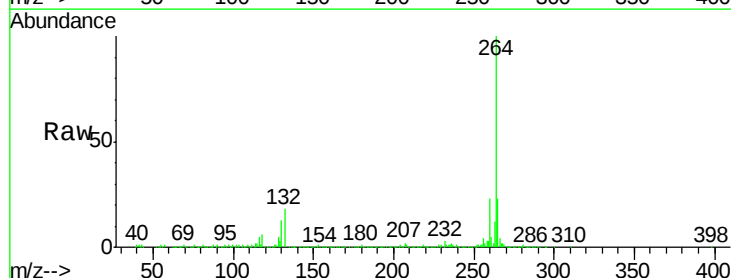
Tgt Ion:264 Resp: 405919

Ion Ratio Lower Upper

264 100

260 23.3 18.7 28.1

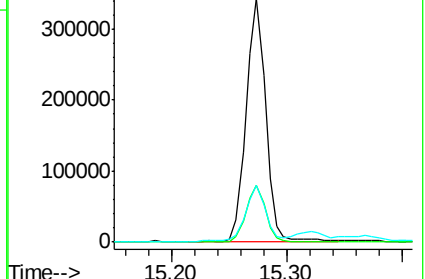
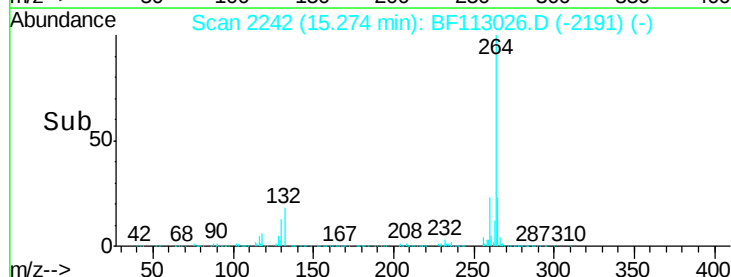
265 23.1 17.2 25.8

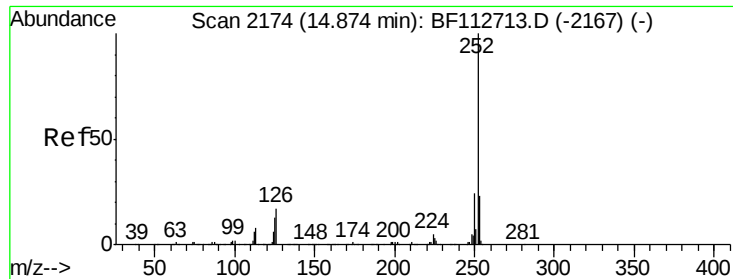


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

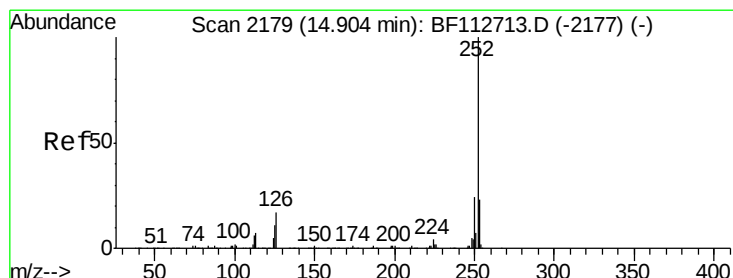
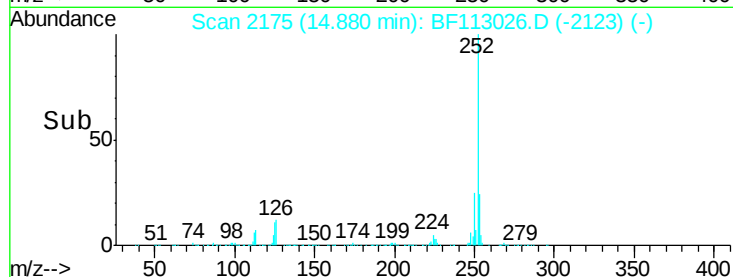
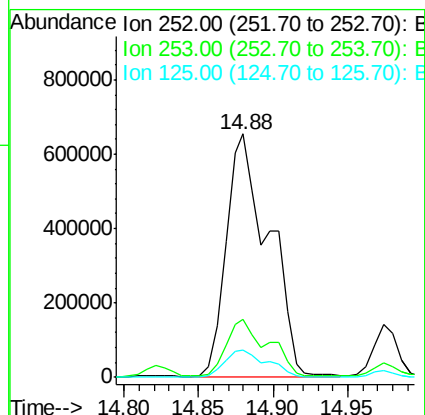
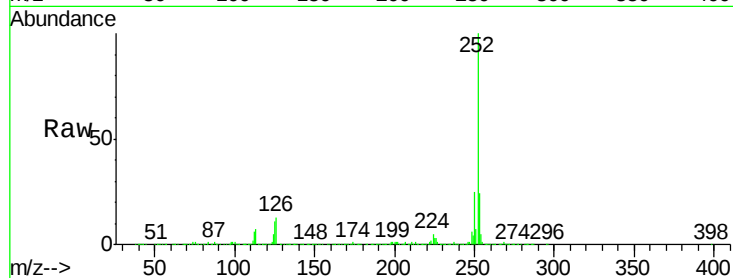




#88
Benzo(b)fluoranthene
Concen: 49.194 ng
RT: 14.88 min Scan# 2175
Delta R.T. 0.01 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

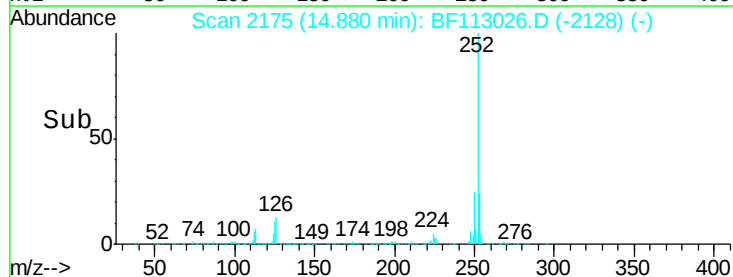
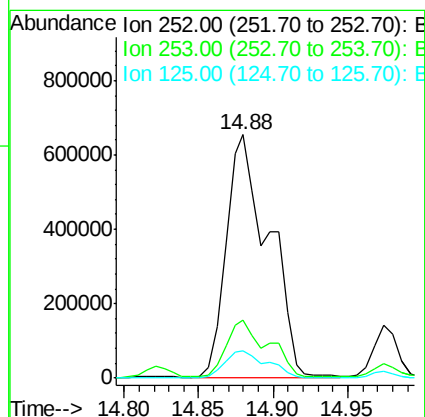
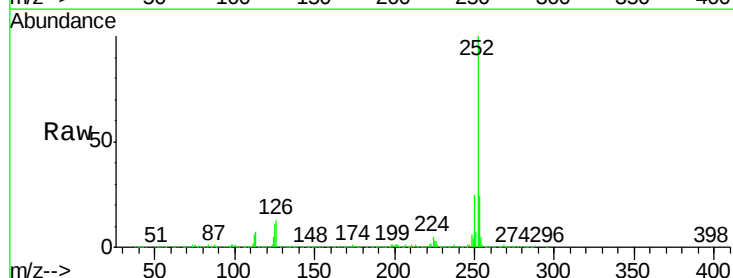
Instrument :
BNA_F
ClientSampleId :
B-6(4-5)DL

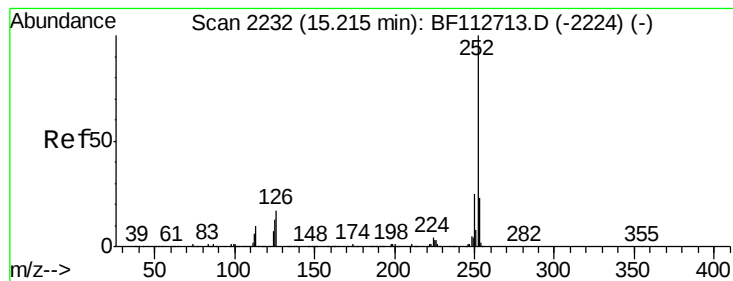
Tgt Ion:252 Resp: 1291645
Ion Ratio Lower Upper
252 100
253 23.8 18.0 27.0
125 11.0 10.2 15.2



#89
Benzo(k)fluoranthene
Concen: 54.310 ng
RT: 14.88 min Scan# 2175
Delta R.T. -0.02 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Tgt Ion:252 Resp: 1291645
Ion Ratio Lower Upper
252 100
253 23.8 18.2 27.2
125 11.0 9.8 14.6





#90

Benzo(a)pyrene

Concen: 29.337 ng

RT: 15.22 min Scan# 2232

Delta R.T. -0.00 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

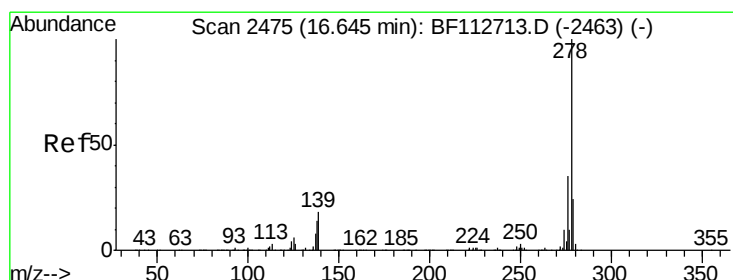
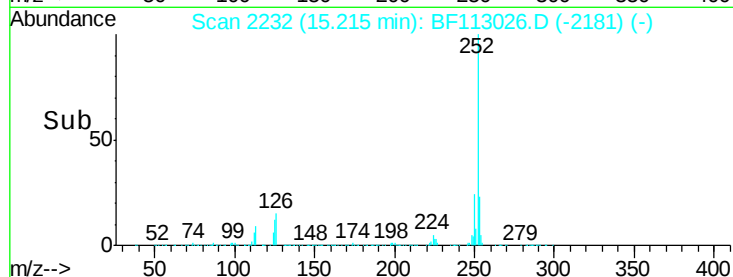
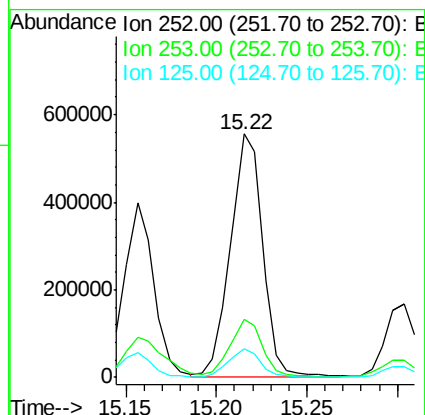
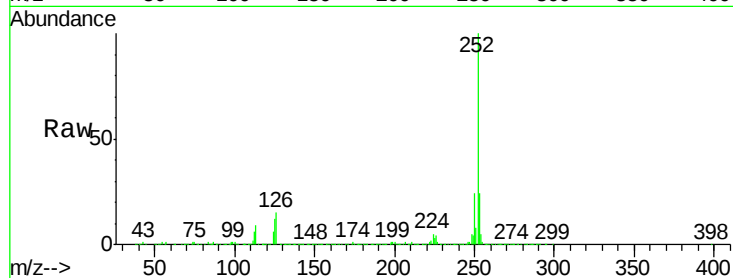
Instrument :

BNA_F

ClientSampleId :

B-6(4-5)DL

Tgt Ion:	252	Resp:	681321
Ion Ratio	Lower	Upper	
252	100		
253	23.8	18.0	27.0
125	11.5	10.7	16.1



#91

Dibenzo(a,h)anthracene

Concen: 4.997 ng

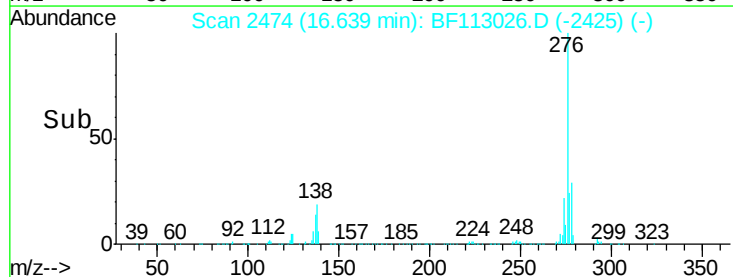
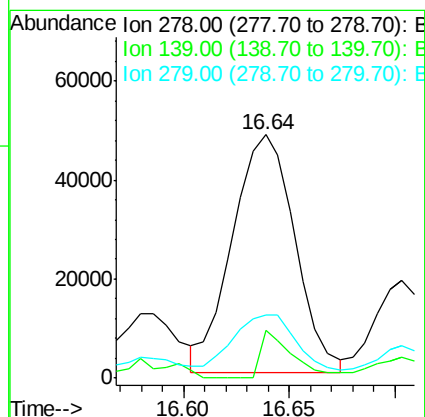
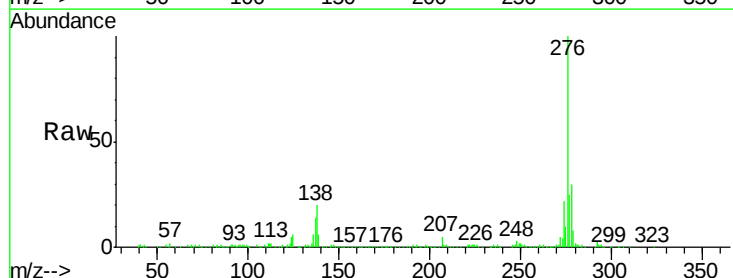
RT: 16.64 min Scan# 2474

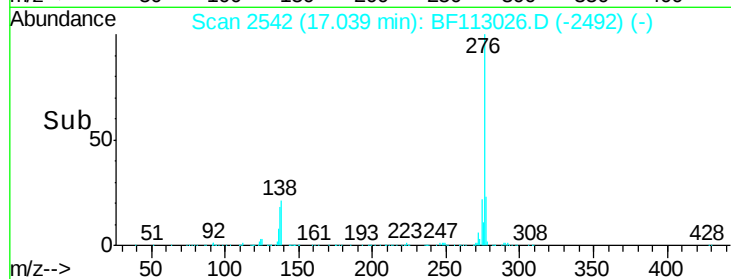
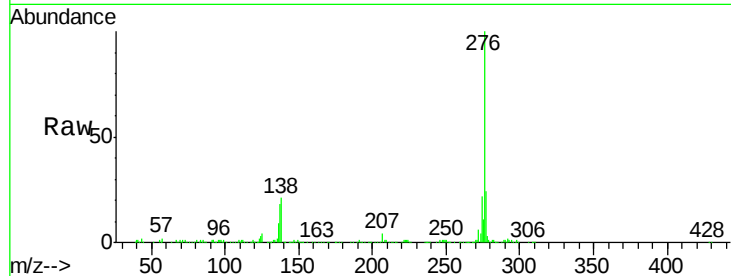
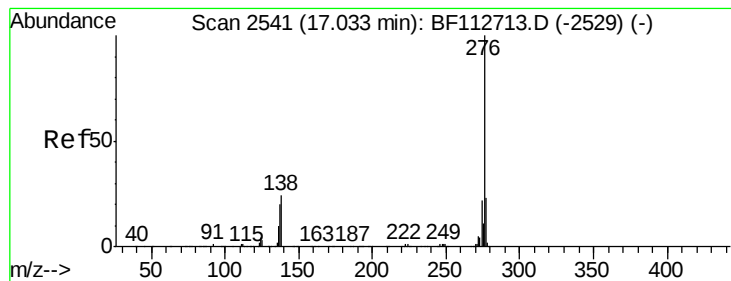
Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Tgt Ion:	278	Resp:	99029
Ion Ratio	Lower	Upper	
278	100		
139	19.5	14.3	21.5
279	26.0	19.4	29.0





#92

Benzo(g,h,i)perylene

Concen: 16.524 ng

RT: 17.04 min Scan# 2542

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Instrument :

BNA_F

ClientSampleId :

B-6(4-5)DL

Tgt Ion:276 Resp: 328814

Ion Ratio Lower Upper

276 100

277 24.1 18.6 27.8

138 21.4 19.4 29.0

