

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032019\
 Data File : BF113188.D
 Acq On : 21 Mar 2019 00:26
 Operator : JU/SJ
 Sample : K1989-05 5X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 21 12:24:07 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 21 12:13:22 2019
 Response via : Initial Calibration

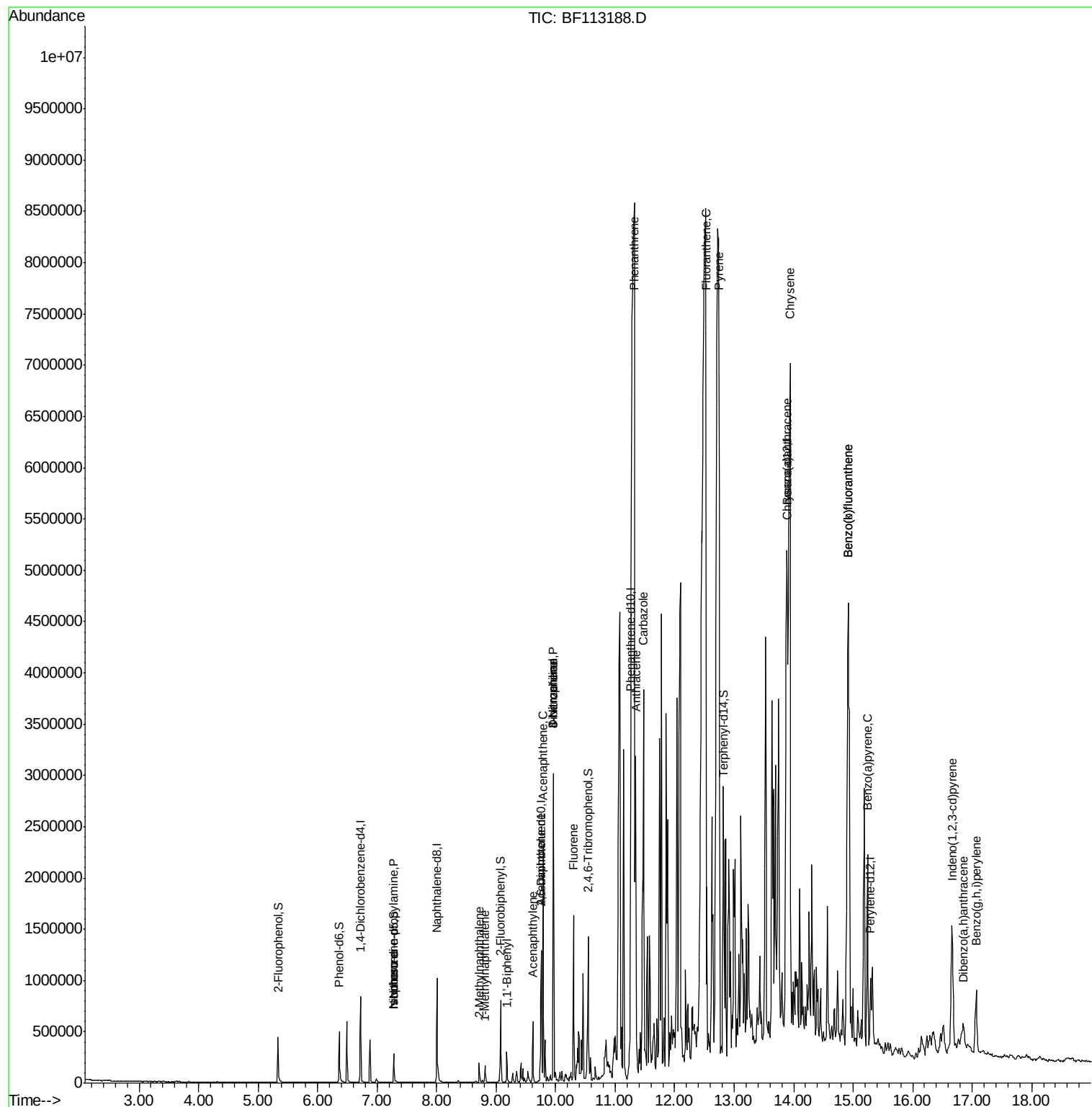
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	119979	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	492376	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	239764	20.00	ng	0.00
64) Phenanthrene-d10	11.26	188	358325	20.00	ng	0.02
76) Chrysene-d12	13.90	240	274892	20.00	ng	0.03
87) Perylene-d12	15.29	264	294325	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	145117	18.81	ng	0.00
7) Phenol-d6	6.36	99	177828	18.35	ng	-0.01
23) Nitrobenzene-d5	7.28	82	100509	12.21	ng	-0.01
42) 2,4,6-Tribromophenol	10.55	330	49736	19.54	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	252504	13.16	ng	0.00
79) Terphenyl-d14	12.83	244	253297	17.86	ng	0.01
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.28	70	12606	2.054	ng	# 80
25) Isophorone	7.28	82	95984	5.415	ng	# 65
37) 2-Methylnaphthalene	8.72	142	62095	3.933	ng	97
38) 1-Methylnaphthalene	8.82	142	44648	2.920	ng	97
46) 1,1'-Biphenyl	9.18	154	86648	4.431	ng	96
49) Acenaphthylene	9.62	152	214277	8.266	ng	98
51) 2,6-Dinitrotoluene	9.76	165	41297	11.217	ng	# 25
52) Acenaphthene	9.79	154	482483	31.826	ng	100
53) 3-Nitroaniline	9.96	138	18351	4.091	ng	# 11
55) Dibenzofuran	9.96	168	1226155	55.649	ng	99
56) 4-Nitrophenol	9.96	139	455665	124.983	ng	# 8
58) Fluorene	10.30	166	396656	25.364	ng	98
71) Phenanthrene	11.32	178	10799671	605.768	ng	96
72) Anthracene	11.34	178	942130	50.483	ng	100
73) Carbazole	11.48	167	1534016	84.263	ng	99
75) Fluoranthene	12.52	202	12644950	662.015	ng	96
78) Pyrene	12.74	202	10077021	434.840	ng	94
81) Benzo(a)anthracene	13.89	228	3793792	199.129	ng	96
83) Chrysene	13.94	228	4688928	251.257	ng	95
86) Indeno(1,2,3-cd)pyrene	16.66	276	723666	45.485	ng	96
88) Benzo(b)fluoranthene	14.92	252	4268693	224.222	ng	98
89) Benzo(k)fluoranthene	14.92	252	4268693	247.540	ng	98
90) Benzo(a)pyrene	15.24	252	937515	55.675	ng	97
91) Dibenzo(a,h)anthracene	16.86	278	133330	9.279	ng	95
92) Benzo(g,h,i)perylene	17.07	276	505669	35.046	ng	100

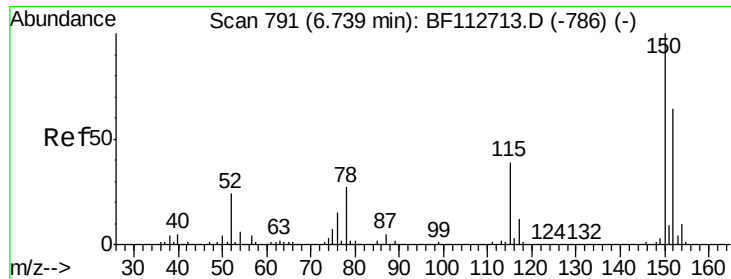
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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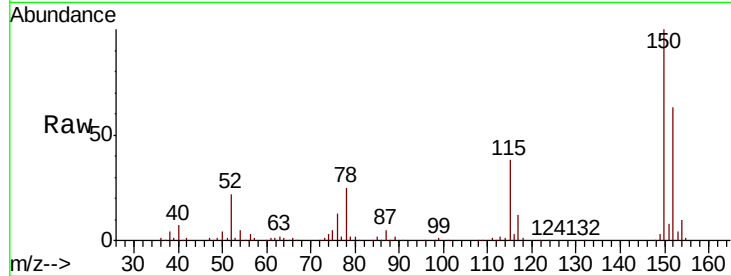


#1

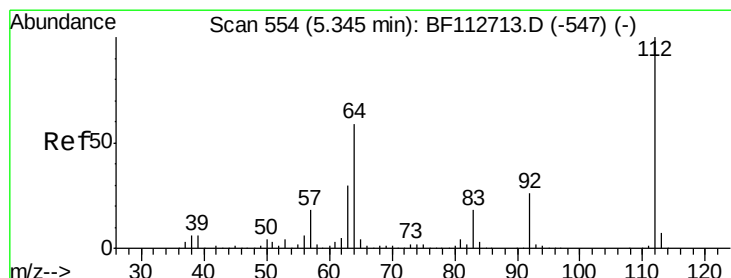
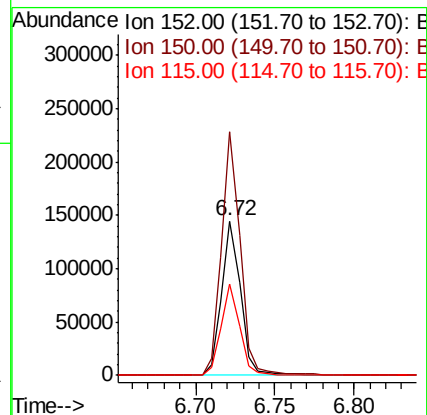
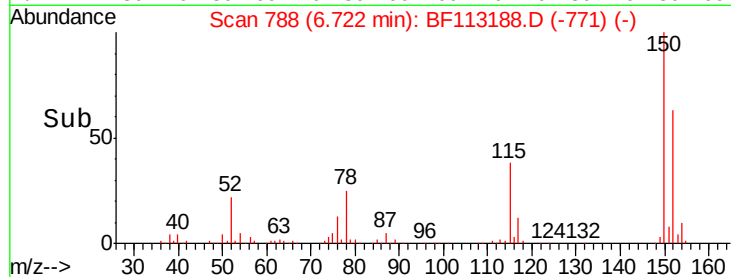
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.72 min Scan# 788
 Delta R.T. -0.00 min
 Lab File: BF113188.D
 Acq: 21 Mar 2019 00:26

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 119979
 Ion Ratio Lower Upper
 152 100
 150 157.7 123.0 184.6
 115 59.2 45.9 68.9



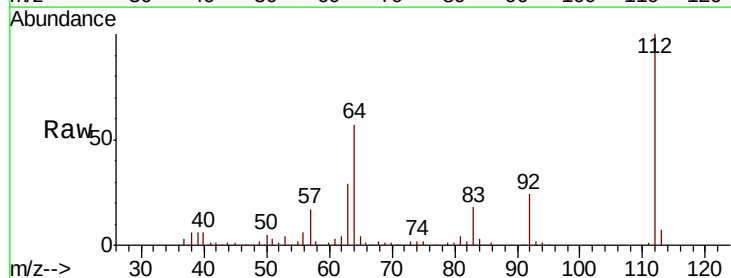
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



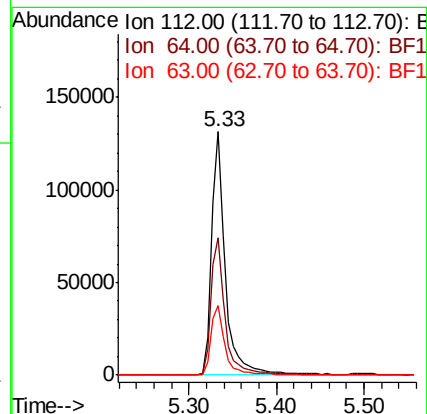
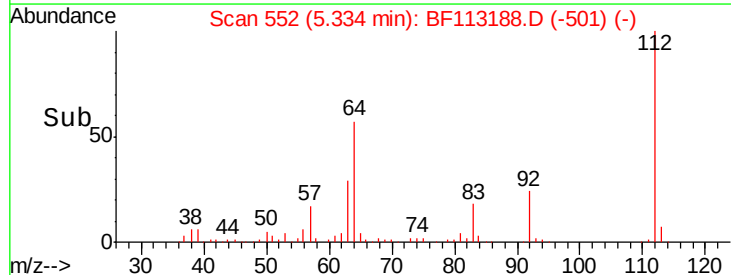
#5

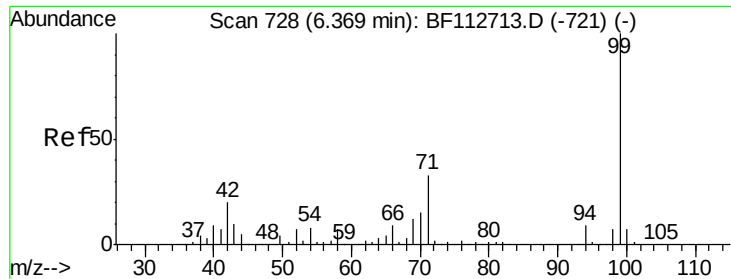
2-Fluorophenol
 Concen: 18.815 ng
 RT: 5.33 min Scan# 552
 Delta R.T. -0.00 min
 Lab File: BF113188.D
 Acq: 21 Mar 2019 00:26

Tgt Ion:112 Resp: 145117
 Ion Ratio Lower Upper
 112 100
 64 56.7 49.3 73.9
 63 28.7 25.4 38.2



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: 18.354 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

Instrument :

BNA_F

ClientSampleId :

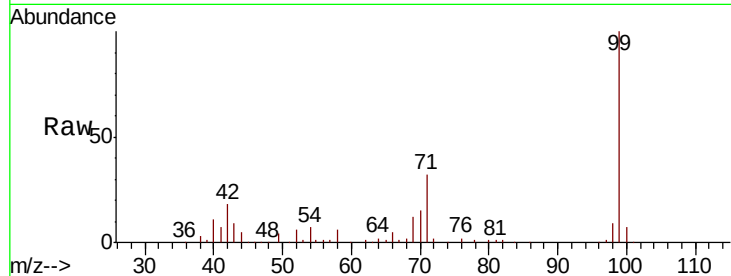
Tot Ion: 99 Resp: 177828

Ion Ratio Lower Upper

99 100

42 18.2 15.2 22.8

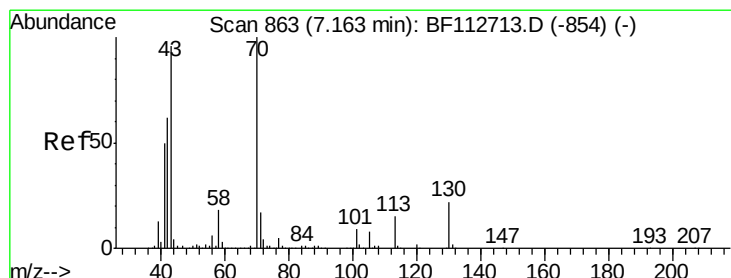
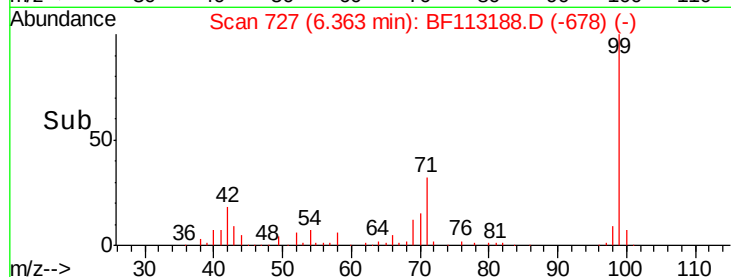
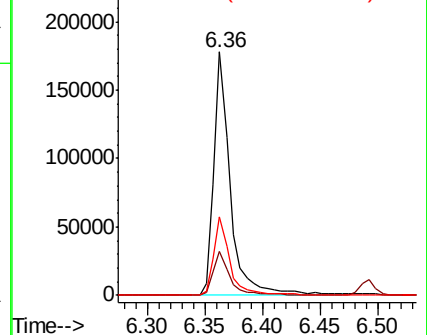
71 32.3 25.7 38.5



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 2.054 ng

RT: 7.28 min Scan# 883

Delta R.T. 0.14 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

Tgt Ion: 70 Resp: 12606

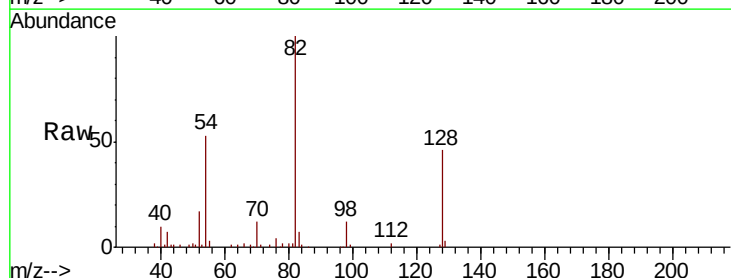
Ion Ratio Lower Upper

70 100

42 54.5 50.4 75.6

101 0.0 7.5 11.3#

130 0.0 17.0 25.6#

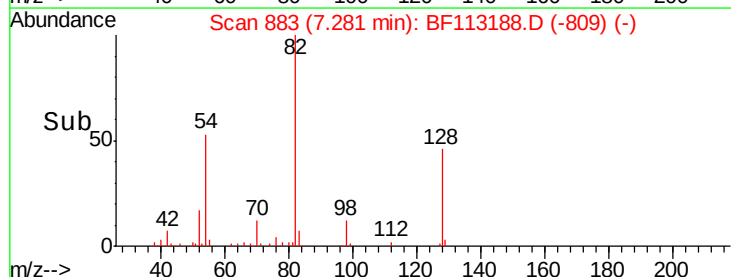
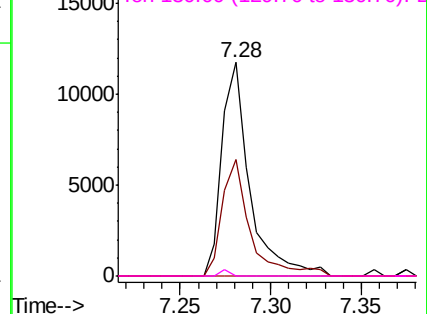


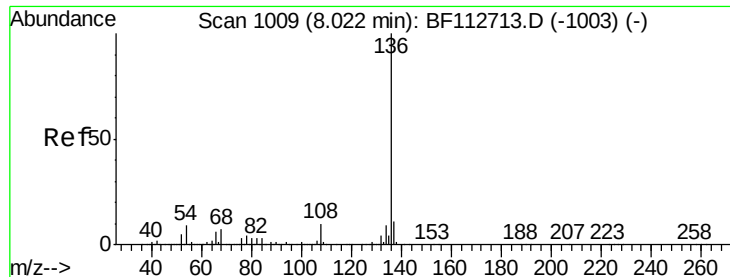
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

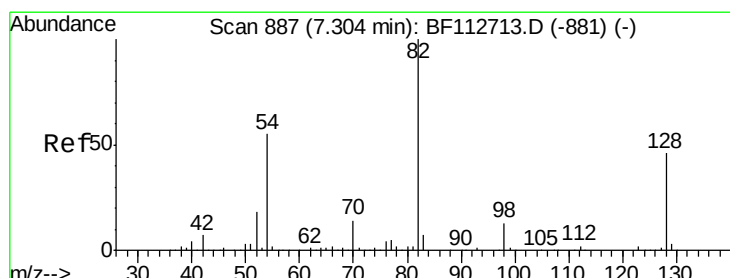
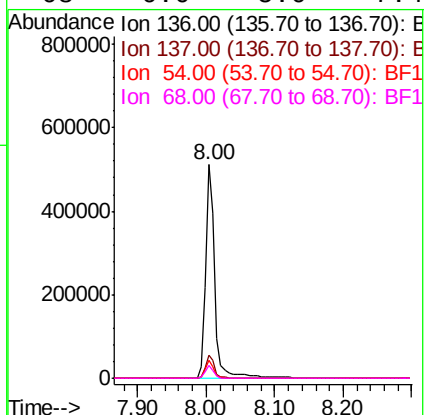
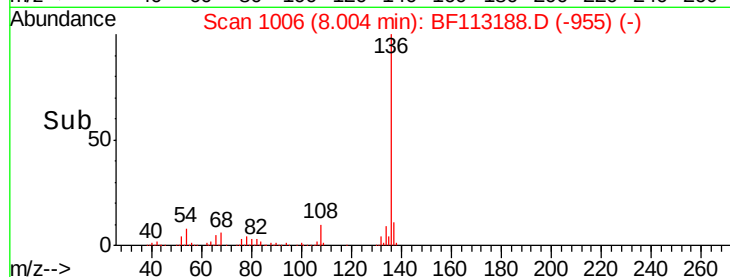
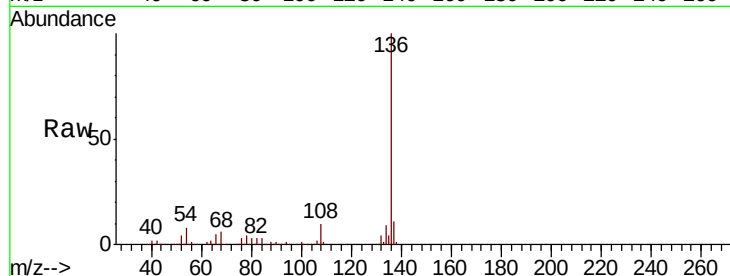




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.00 min Scan# 1006
Delta R.T. -0.00 min
Lab File: BF113188.D
Acq: 21 Mar 2019 00:26

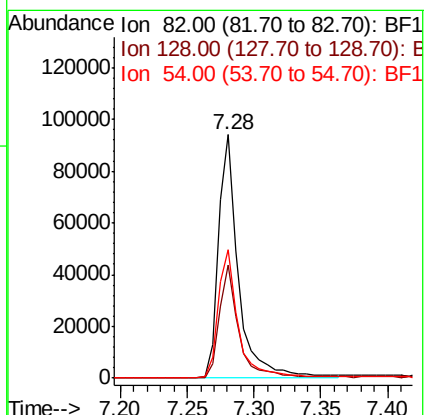
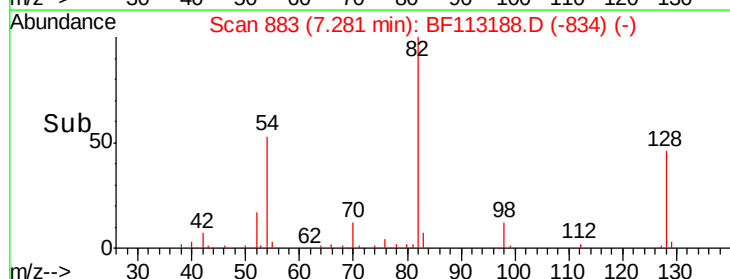
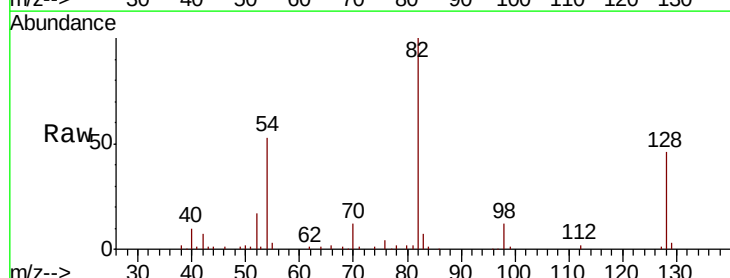
Instrument :
BNA_F
ClientSampleId :

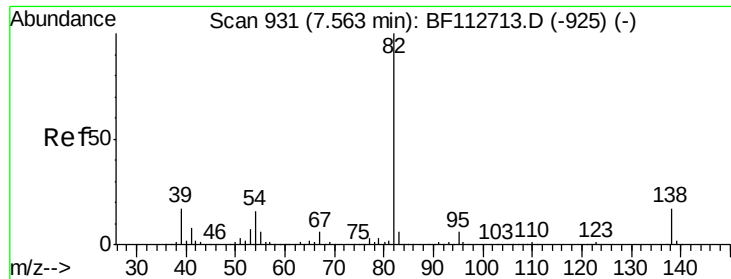
Tot Ion:136	Resp:	492376
Ion Ratio	Lower	Upper
136	100	
137	11.0	8.9 13.3
54	8.1	7.0 10.6
68	6.0	5.0 7.4



#23
Nitrobenzene-d5
Concen: 12.215 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF113188.D
Acq: 21 Mar 2019 00:26

Tgt Ion: 82	Resp:	100509
Ion Ratio	Lower	Upper
82	100	
128	46.3	37.9 56.9
54	52.6	41.2 61.8

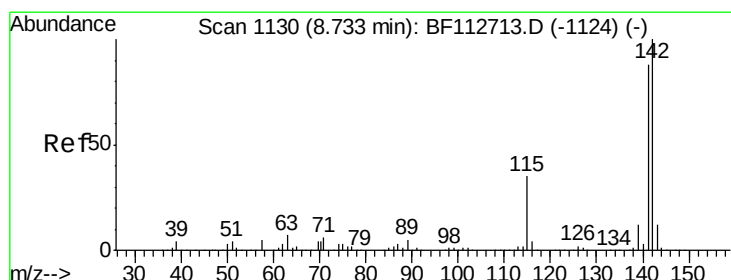
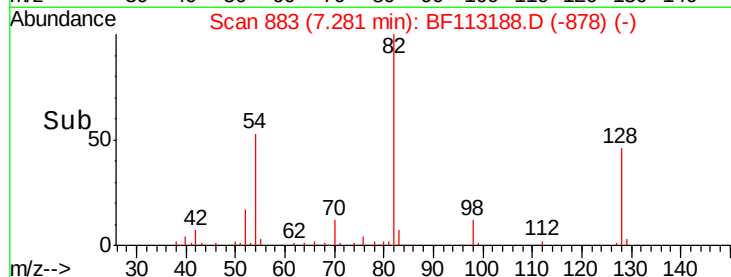
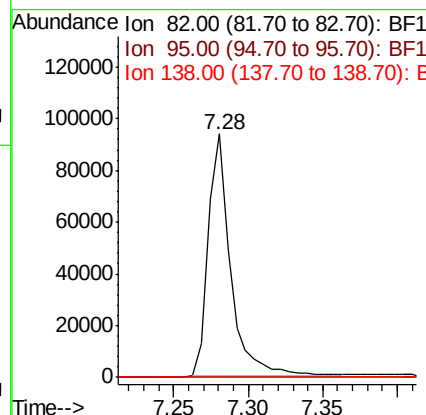
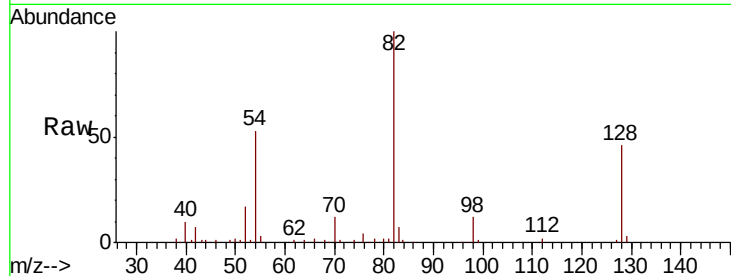




#25
Isophorone
Concen: 5.415 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.27 min
Lab File: BF113188.D
Acq: 21 Mar 2019 00:26

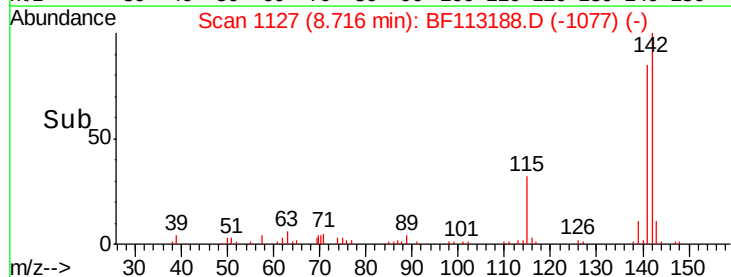
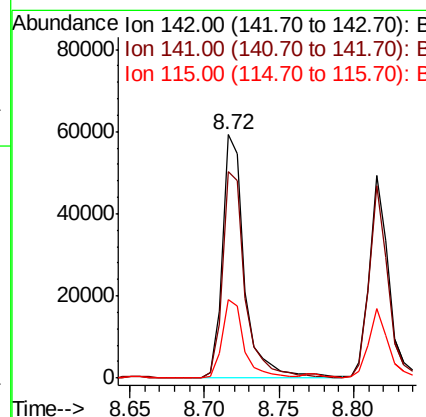
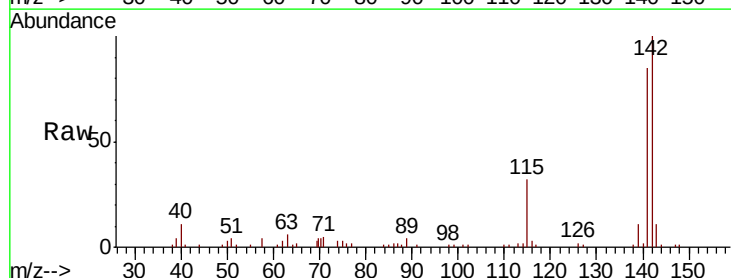
Instrument :
BNA_F
ClientSampleId :

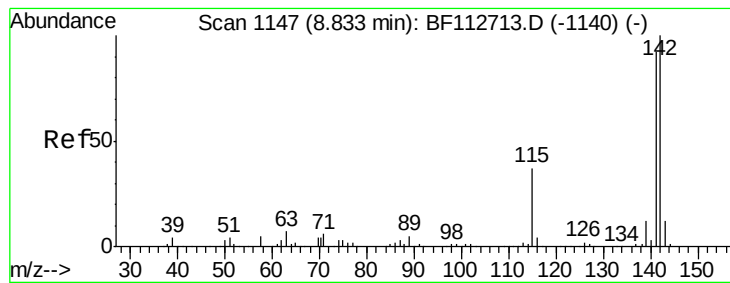
Tot Ion: 82 Resp: 95984
Ion Ratio Lower Upper
82 100
95 0.0 5.6 8.4#
138 0.0 14.5 21.7#



#37
2-Methylnaphthalene
Concen: 3.933 ng
RT: 8.72 min Scan# 1127
Delta R.T. -0.01 min
Lab File: BF113188.D
Acq: 21 Mar 2019 00:26

Tgt Ion: 142 Resp: 62095
Ion Ratio Lower Upper
142 100
141 84.7 70.5 105.7
115 32.3 26.3 39.5





#38

1-Methylnaphthalene

Concen: 2.920 ng

RT: 8.82 min Scan# 1144

Delta R.T. -0.00 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

Instrument :

BNA_F

ClientSampleId :

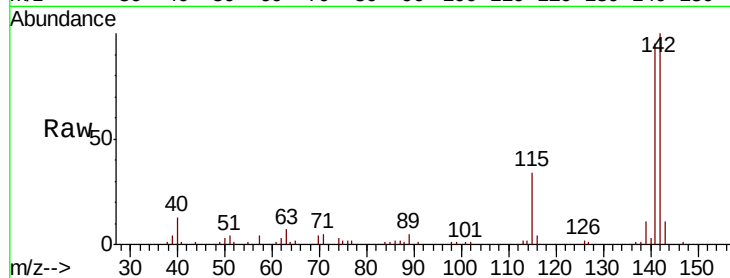
Tot Ion:142 Resp: 44648

Ion Ratio Lower Upper

142 100

141 94.6 73.5 110.3

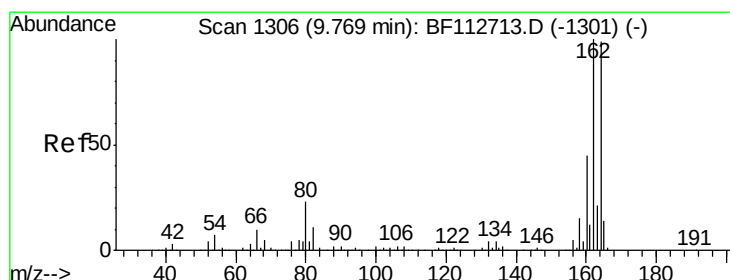
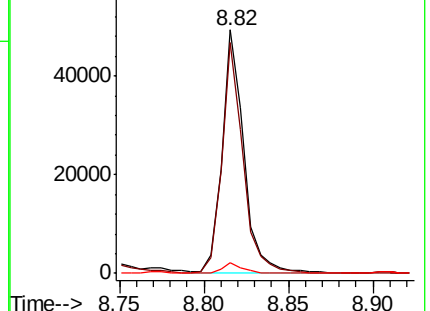
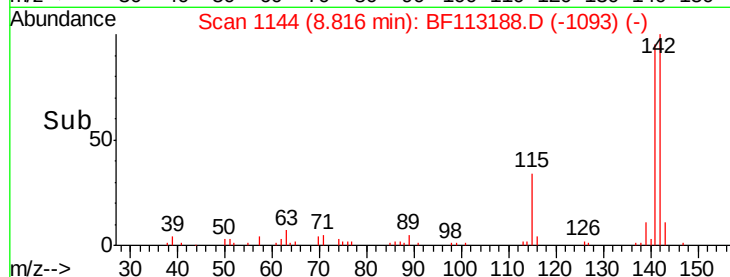
116 4.3 3.0 4.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.00 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

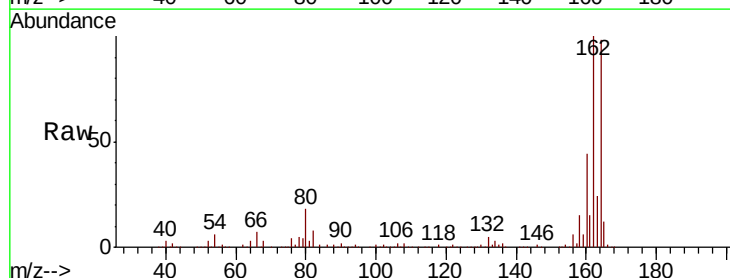
Tgt Ion:164 Resp: 239764

Ion Ratio Lower Upper

164 100

162 102.1 80.8 121.2

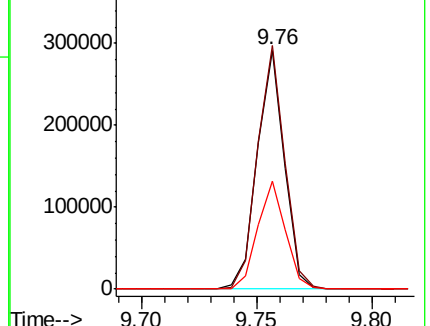
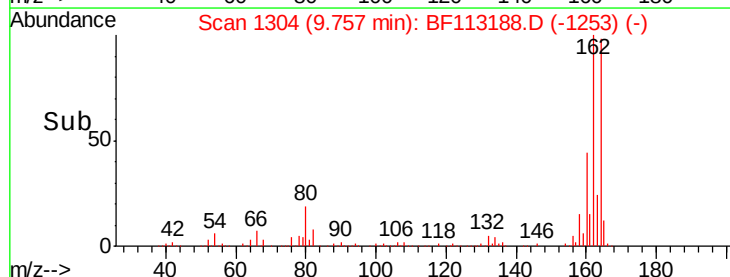
160 45.3 36.2 54.2

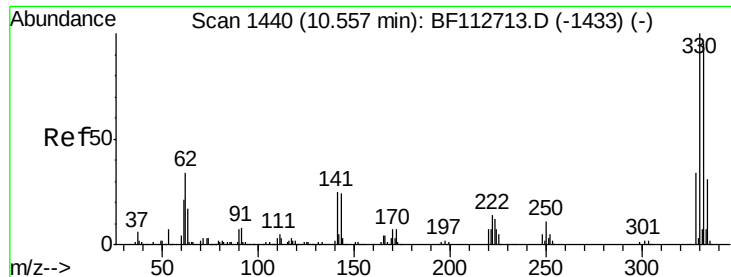


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 19.540 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.00 min

Lab File: BF113188.D

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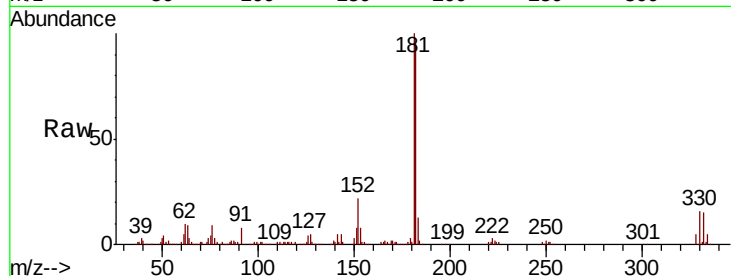
Tot Ion:330 Resp: 49736

Ion Ratio Lower Upper

330 100

332 94.2 76.3 114.5

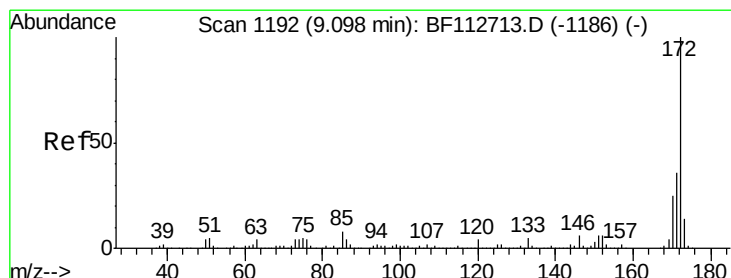
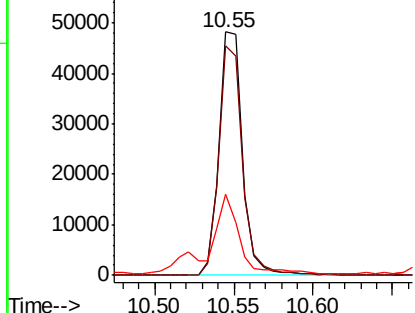
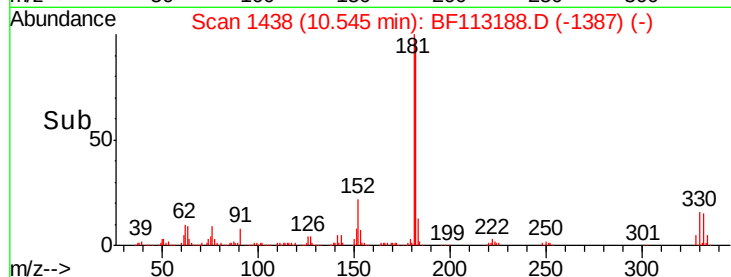
141 41.3 22.3 33.5#



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 13.162 ng

RT: 9.08 min Scan# 1189

Delta R.T. -0.01 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

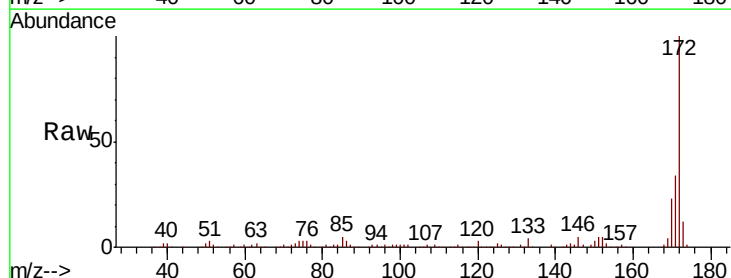
Tgt Ion:172 Resp: 252504

Ion Ratio Lower Upper

172 100

171 34.4 29.0 43.4

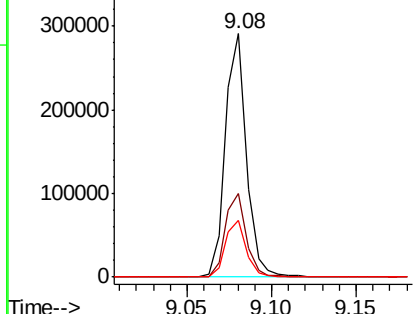
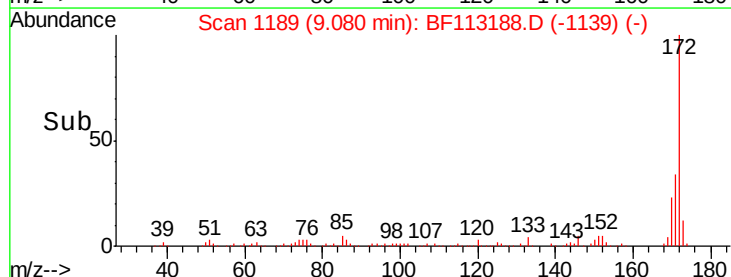
170 23.4 20.1 30.1

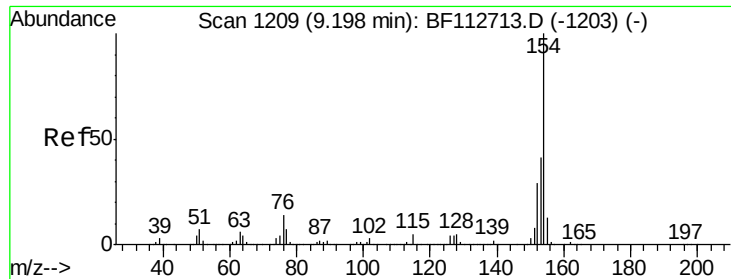


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

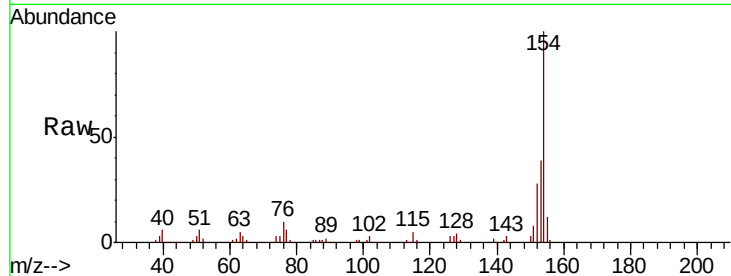




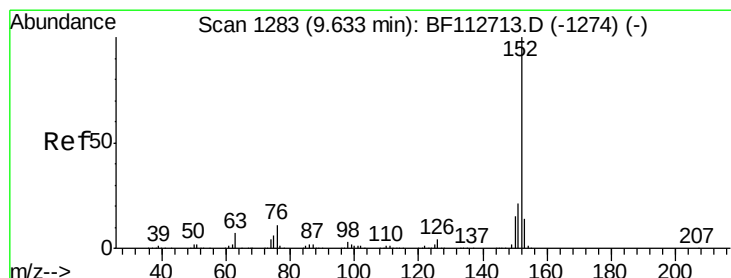
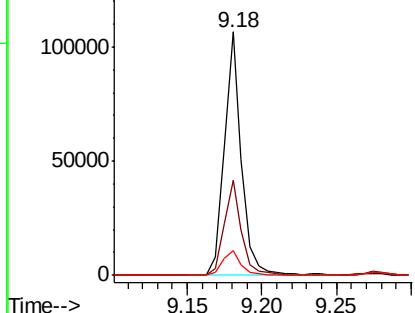
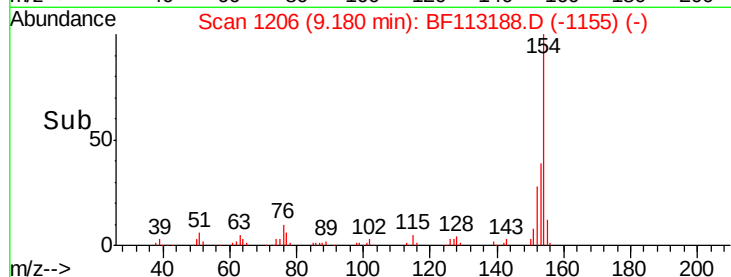
#46
 1,1'-Biphenyl
 Concen: 4.431 ng
 RT: 9.18 min Scan# 1206
 Delta R.T. -0.00 min
 Lab File: BF113188.D
 Acq: 21 Mar 2019 00:26

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:154 Resp: 86648
 Ion Ratio Lower Upper
 154 100
 153 39.2 20.9 60.9
 76 10.2 0.0 33.5

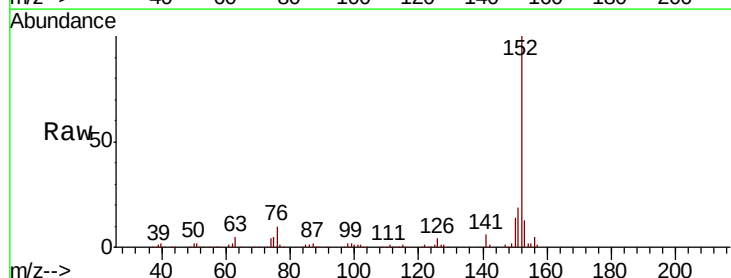


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF1

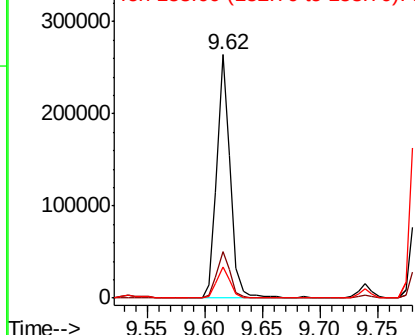
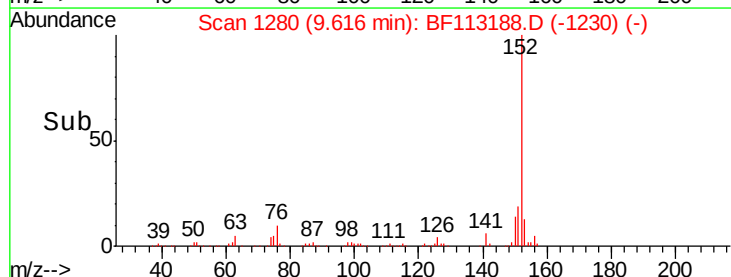


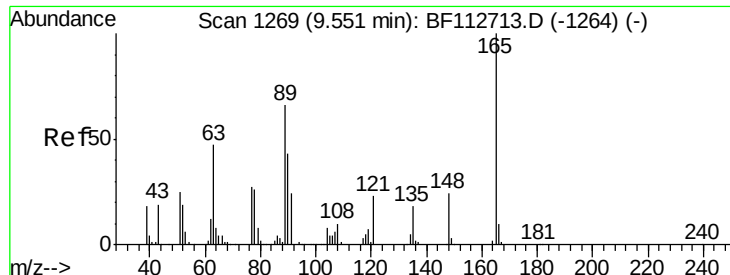
#49
 Acenaphthylene
 Concen: 8.266 ng
 RT: 9.62 min Scan# 1280
 Delta R.T. -0.01 min
 Lab File: BF113188.D
 Acq: 21 Mar 2019 00:26

Tgt Ion:152 Resp: 214277
 Ion Ratio Lower Upper
 152 100
 151 19.4 16.5 24.7
 153 12.8 10.7 16.1



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





#51

2,6-Dinitrotoluene

Concen: 11.217 ng

RT: 9.76 min Scan# 1304

Delta R.T. 0.21 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

Instrument :

BNA_F

ClientSampled :

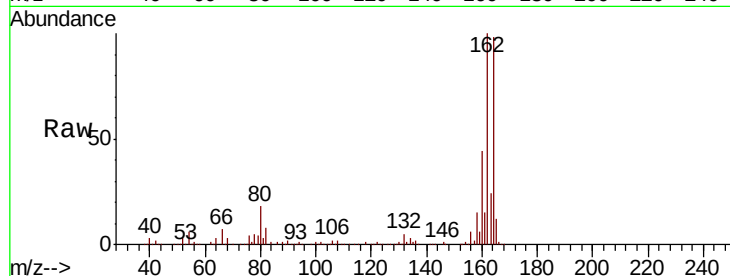
Tot Ion:165 Resp: 41297

Ion Ratio Lower Upper

165 100

63 1.7 45.4 68.2#

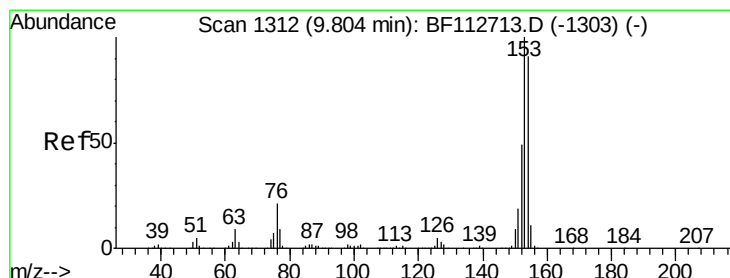
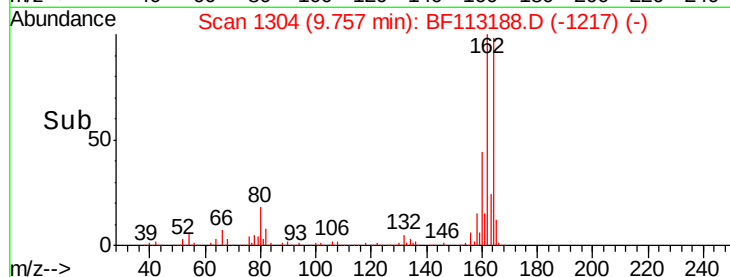
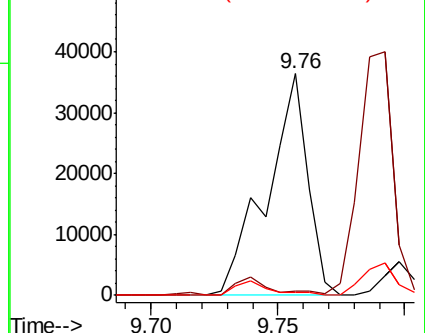
89 1.3 43.8 65.6#



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



#52

Acenaphthene

Concen: 31.826 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

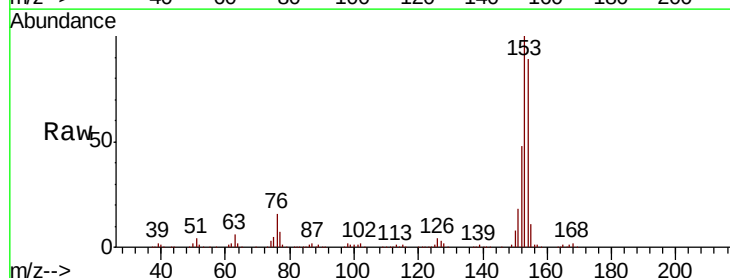
Tgt Ion:154 Resp: 482483

Ion Ratio Lower Upper

154 100

153 113.0 89.9 134.9

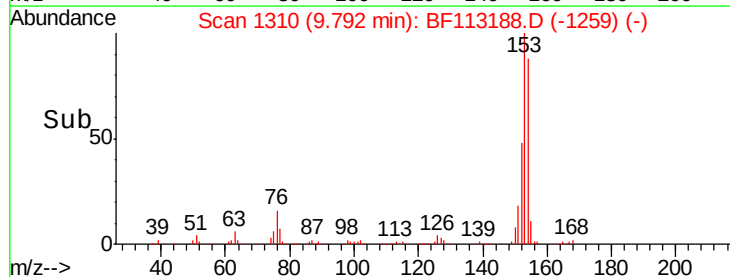
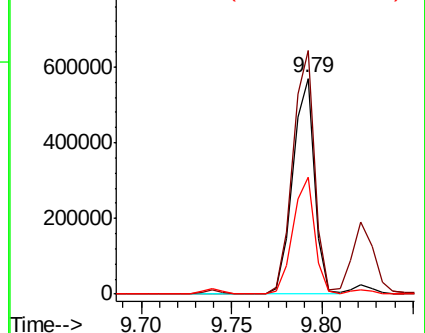
152 54.2 43.4 65.2

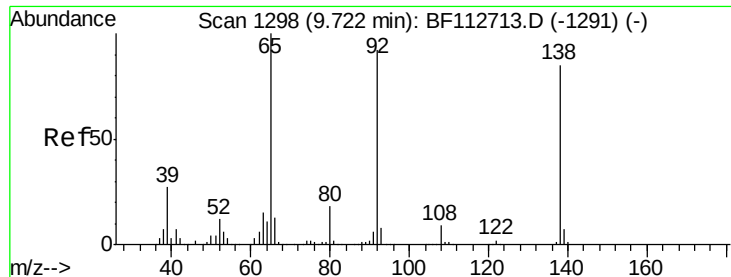


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

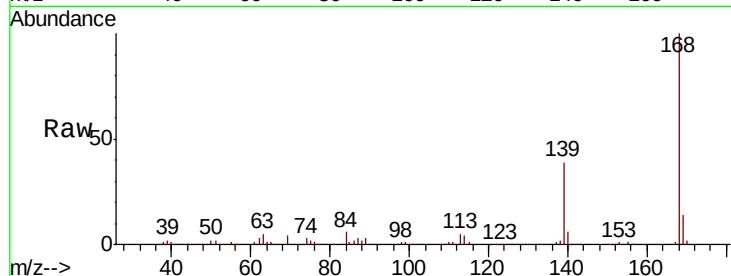




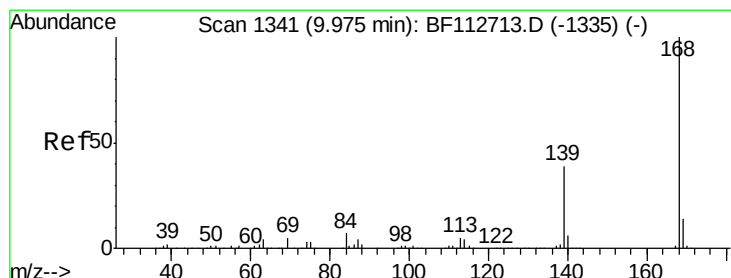
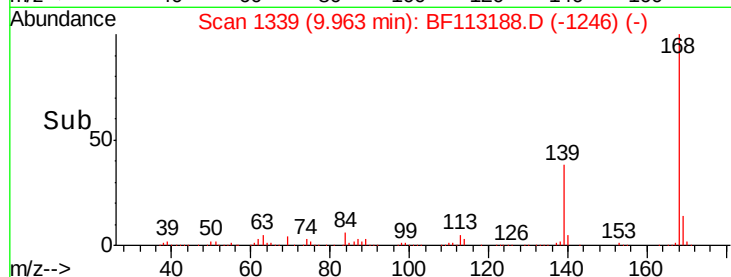
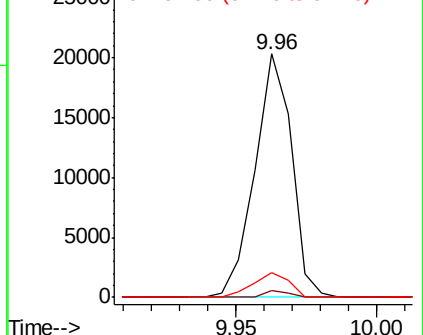
#53
3-Nitroaniline
Concen: 4.091 ng
RT: 9.96 min Scan# 1339
Delta R.T. 0.25 min
Lab File: BF113188.D
Acq: 21 Mar 2019 00:26

Instrument :
BNA_F
ClientSampleId :

Tot Ion:138 Resp: 18351
Ion Ratio Lower Upper
138 100
108 3.0 7.9 11.9#
92 10.2 89.0 133.6#

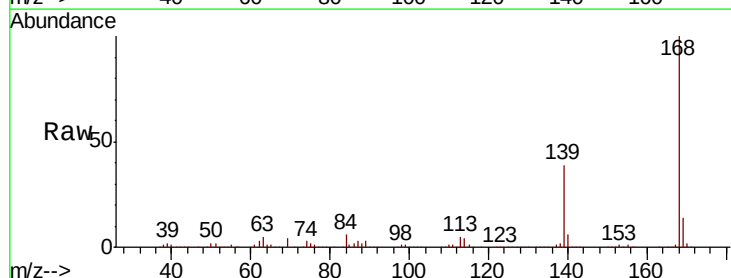


Abundance Ion 138.00 (137.70 to 138.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 92.00 (91.70 to 92.70): BF1

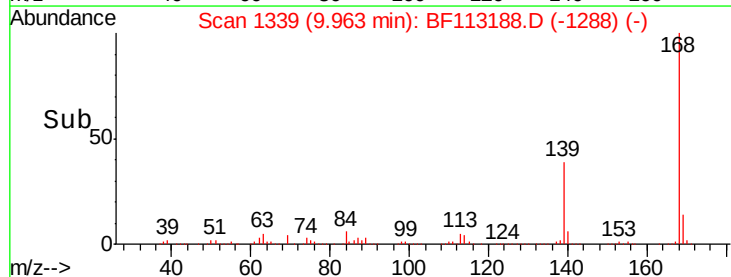
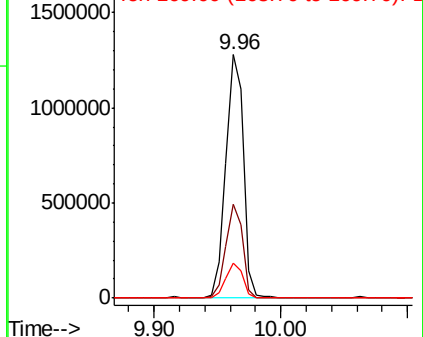


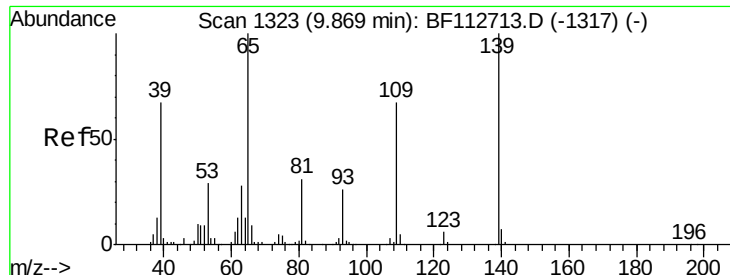
#55
Dibenzofuran
Concen: 55.649 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.00 min
Lab File: BF113188.D
Acq: 21 Mar 2019 00:26

Tgt Ion:168 Resp: 1226155
Ion Ratio Lower Upper
168 100
139 38.8 30.7 46.1
169 14.3 11.0 16.6



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

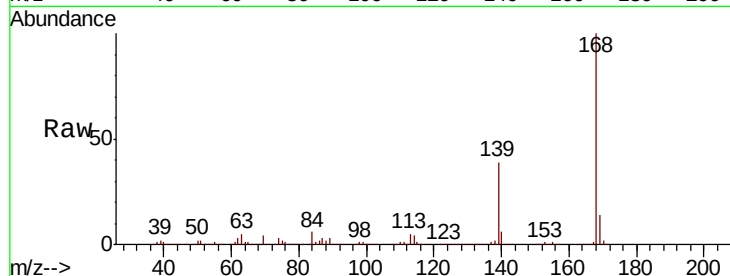




#56
4-Nitrophenol
Concen: 124.983 ng
RT: 9.96 min Scan# 1339
Delta R.T. 0.08 min
Lab File: BF113188.D
Acq: 21 Mar 2019 00:26

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
139	100		
109	0.8	45.4	85.4#
65	1.5	80.1	120.1#

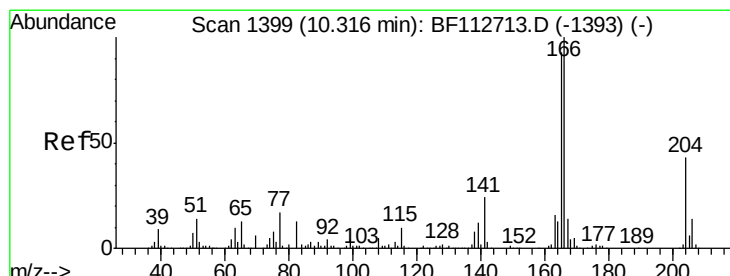
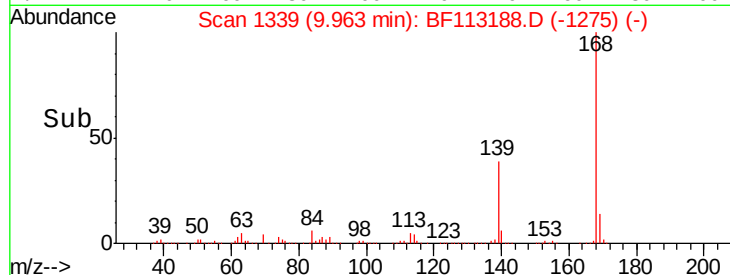
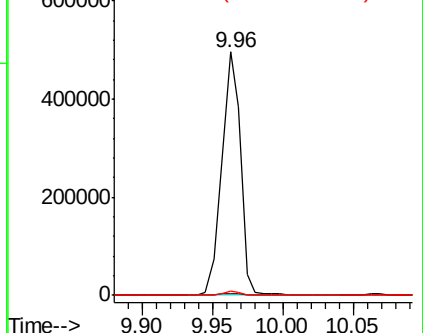


Abundance

Ion 139.00 (138.70 to 139.70): E

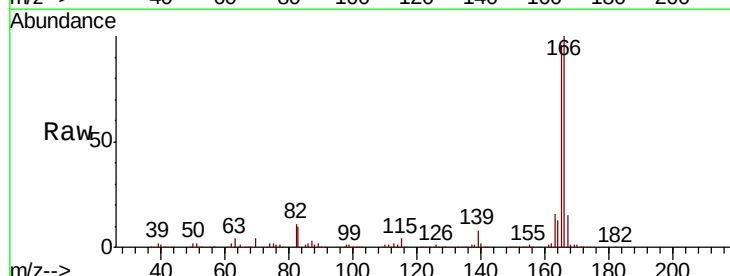
Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#58
Fluorene
Concen: 25.364 ng
RT: 10.30 min Scan# 1397
Delta R.T. -0.00 min
Lab File: BF113188.D
Acq: 21 Mar 2019 00:26

Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.6	75.4	113.2
167	15.4	11.0	16.6

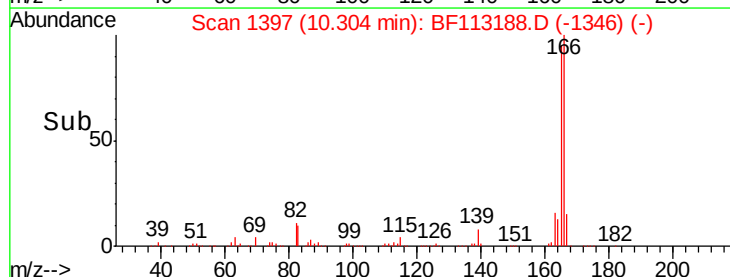
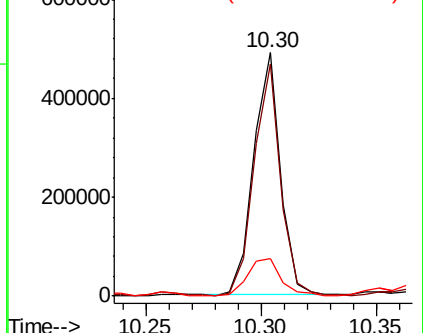


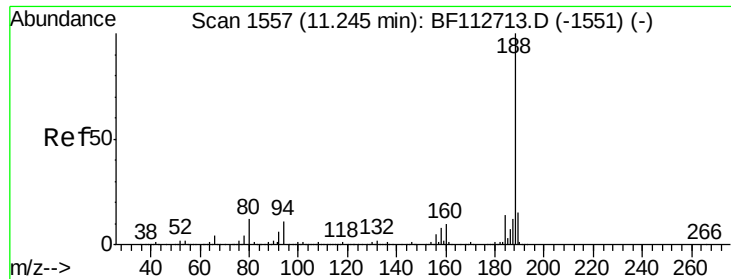
Abundance

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

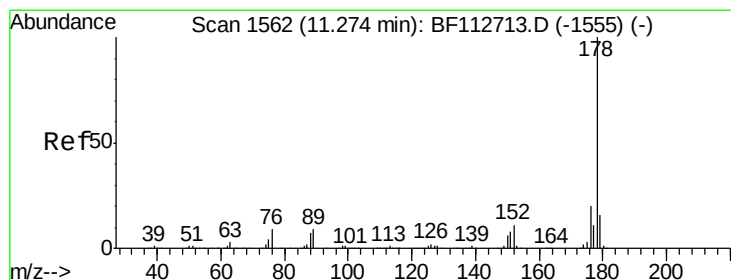
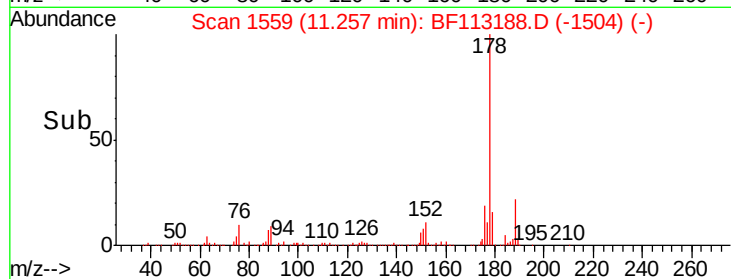
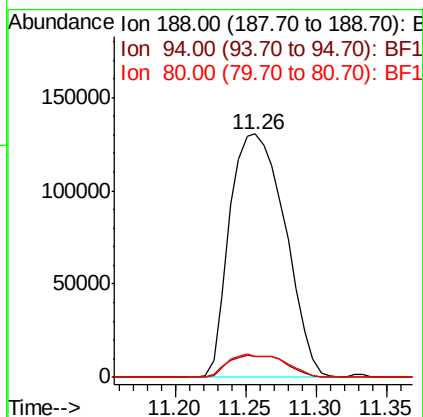
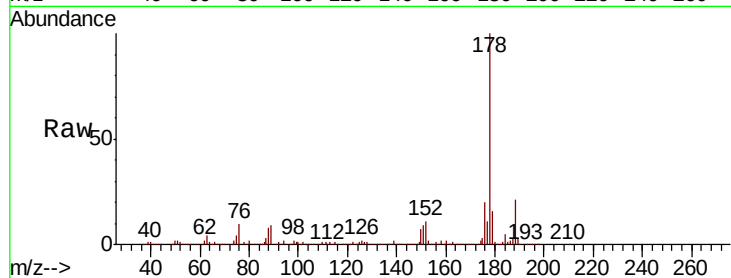




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.26 min Scan# 1559
Delta R.T. 0.02 min
Lab File: BF113188.D
Acq: 21 Mar 2019 00:26

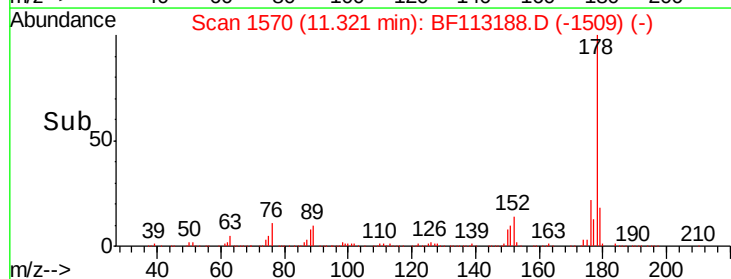
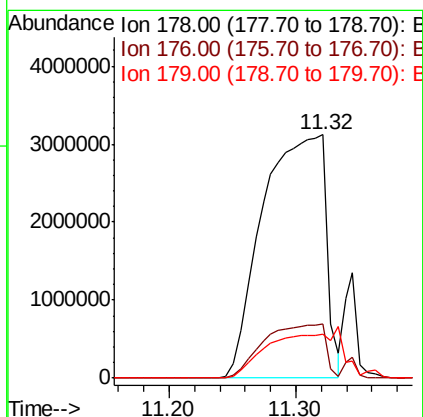
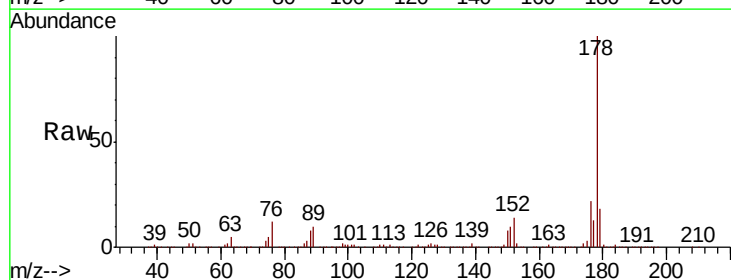
Instrument :
BNA_F
ClientSampleId :

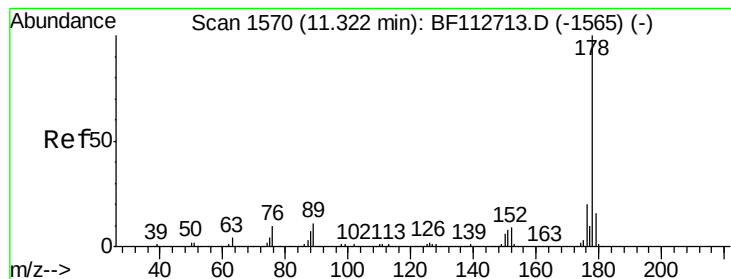
Tot Ion:188 Resp: 358325
Ion Ratio Lower Upper
188 100
94 8.6 7.4 11.2
80 8.7 7.9 11.9



#71
Phenanthrene
Concen: 605.768 ng
RT: 11.32 min Scan# 1570
Delta R.T. 0.06 min
Lab File: BF113188.D
Acq: 21 Mar 2019 00:26

Tgt Ion:178 Resp:10799671
Ion Ratio Lower Upper
178 100
176 22.3 16.2 24.4
179 17.8 13.0 19.4





#72

Anthracene

Concen: 50.483 ng

RT: 11.34 min Scan# 1574

Delta R.T. 0.03 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

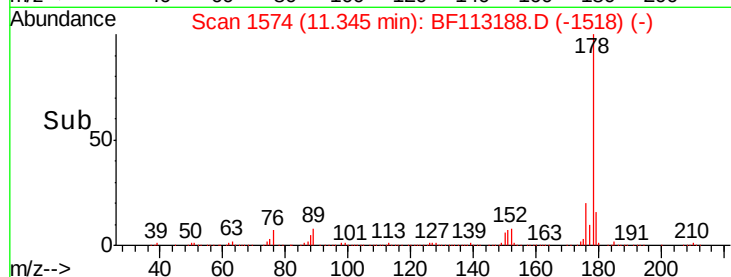
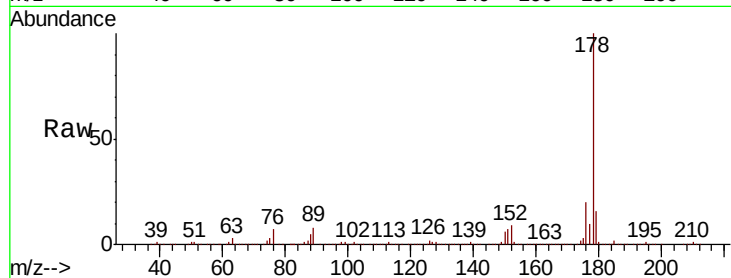
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 942130

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.9	12.4	18.6



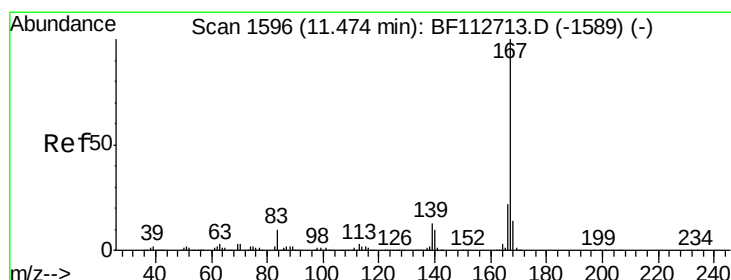
Abundance

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

Time-->



#73

Carbazole

Concen: 84.263 ng

RT: 11.48 min Scan# 1597

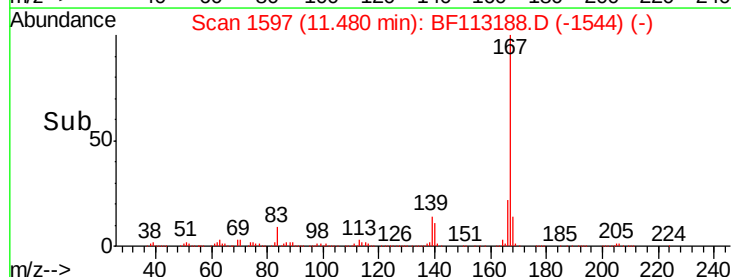
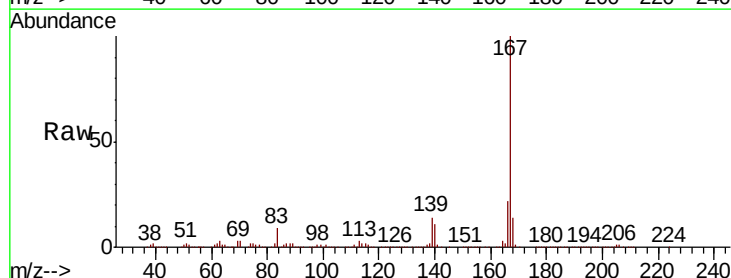
Delta R.T. 0.01 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

Tgt Ion:167 Resp: 1534016

Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.8	26.6
139	13.8	10.6	16.0



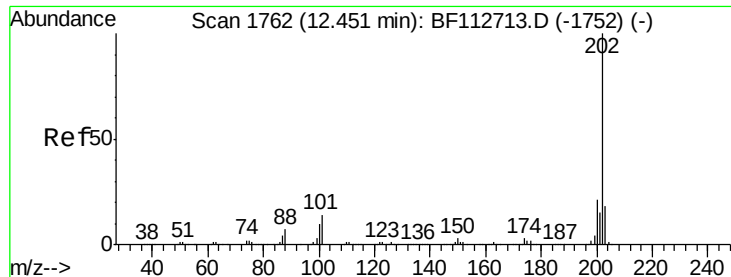
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

Time-->



#75

Fluoranthene

Concen: 662.015 ng

RT: 12.52 min Scan# 1773

Delta R.T. 0.07 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

Instrument :

BNA_F

ClientSampleId :

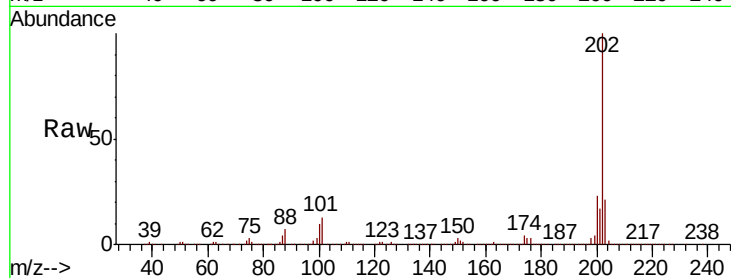
Tot Ion:202 Resp:12644950

Ion Ratio Lower Upper

202 100

101 12.6 0.0 31.9

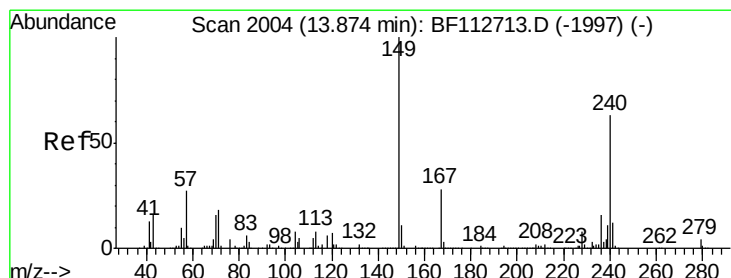
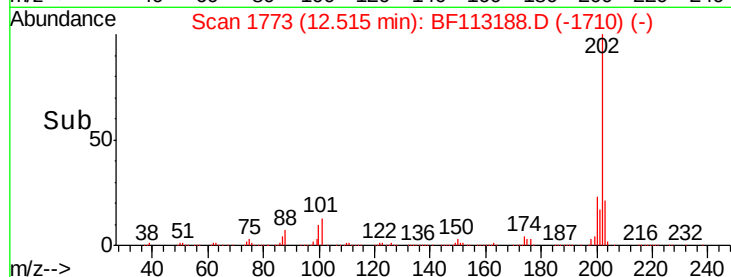
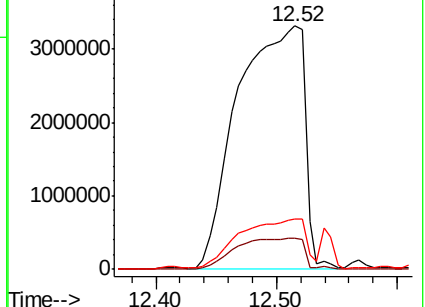
203 20.5 0.0 38.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.90 min Scan# 2008

Delta R.T. 0.03 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

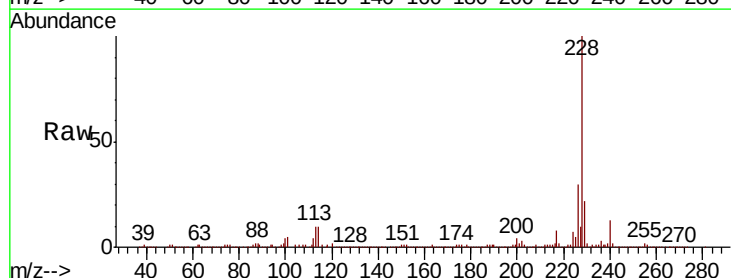
Tgt Ion:240 Resp: 274892

Ion Ratio Lower Upper

240 100

120 12.1 8.6 12.8

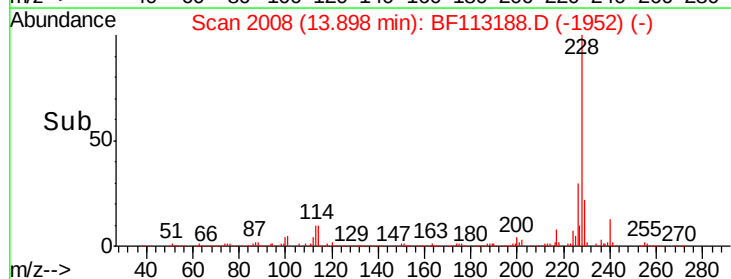
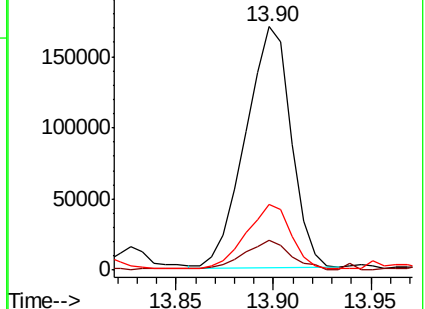
236 26.9 21.2 31.8

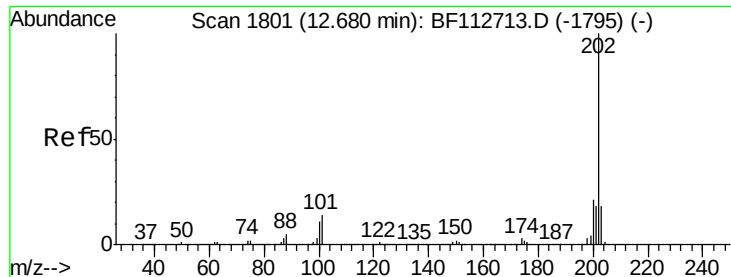


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 434.840 ng

RT: 12.74 min Scan# 1812

Delta R.T. 0.07 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

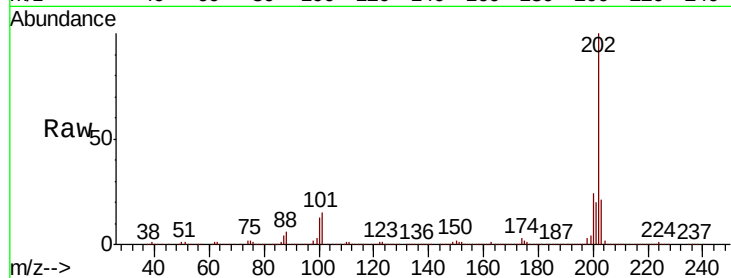
Instrument :

BNA_F

ClientSampleId :

Tot Ion:202 Resp:10077021

Ion	Ratio	Lower	Upper
202	100		
200	23.9	17.1	25.7
203	20.8	14.6	21.8

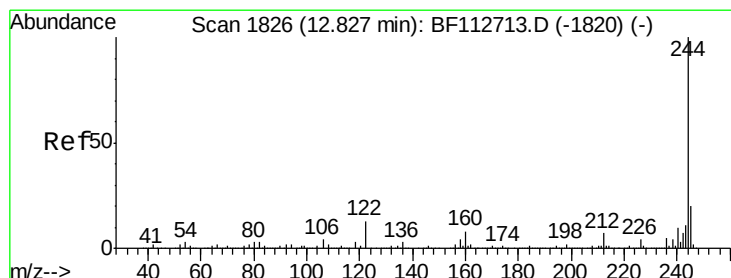
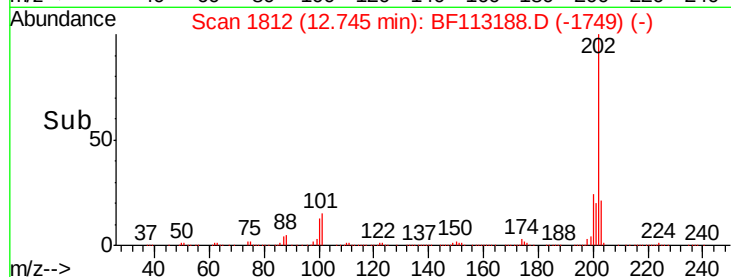
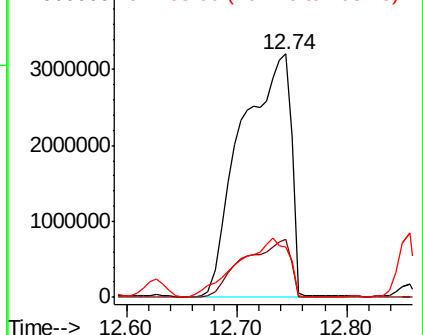


Abundance

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: 17.862 ng

RT: 12.83 min Scan# 1826

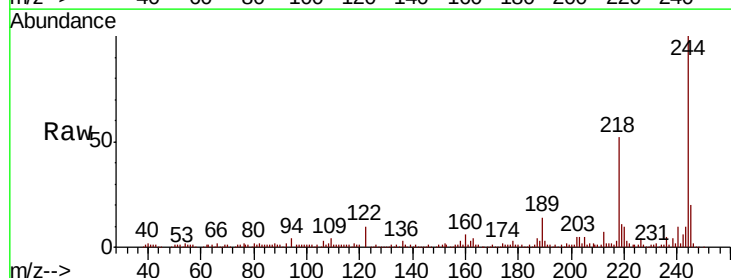
Delta R.T. 0.01 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

Tgt Ion:244 Resp: 253297

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	10.1	9.4	14.2

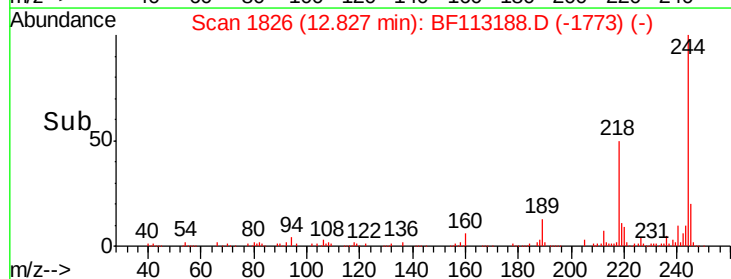
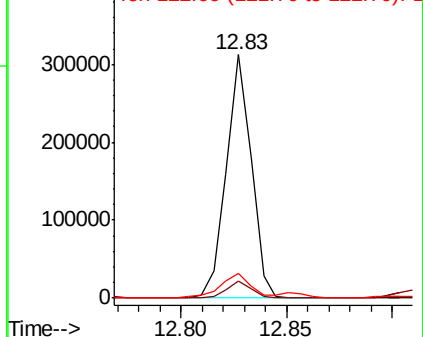


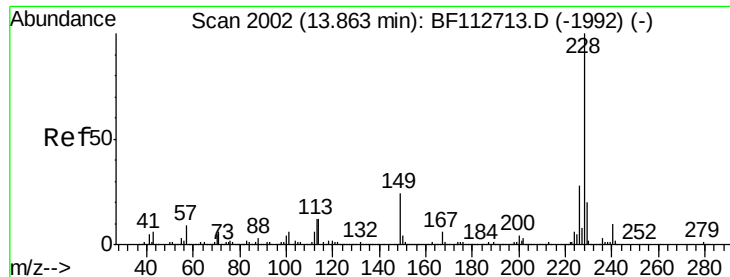
Abundance

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: 199.129 ng

RT: 13.89 min Scan# 2006

Delta R.T. 0.03 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

Instrument :

BNA_F

ClientSampleId :

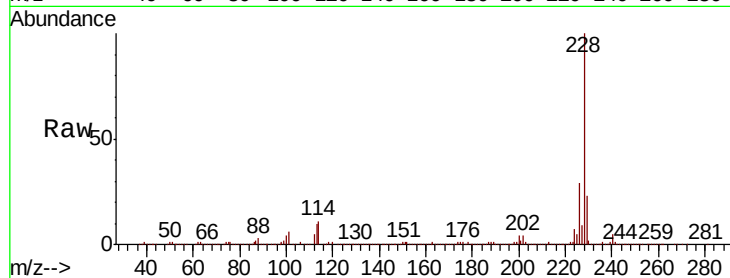
Tot Ion:228 Resp: 3793792

Ion Ratio Lower Upper

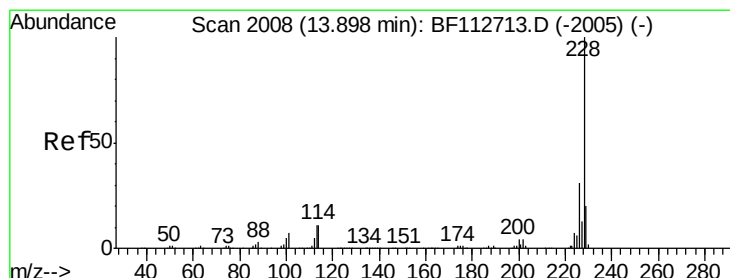
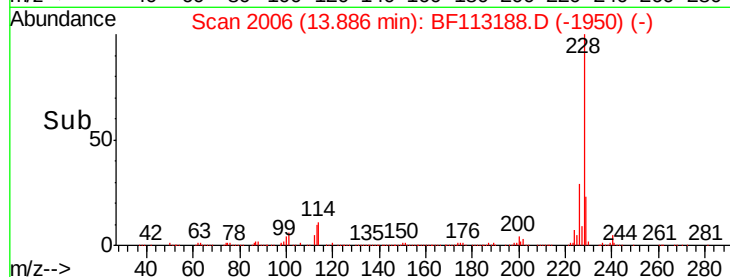
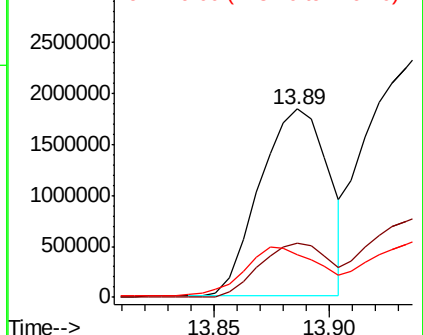
228 100

226 29.1 22.0 33.0

229 22.7 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: 251.257 ng

RT: 13.94 min Scan# 2015

Delta R.T. 0.04 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

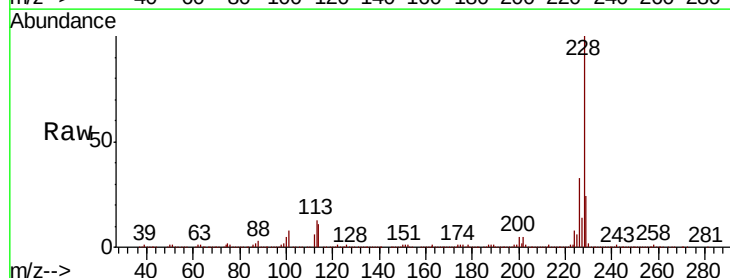
Tgt Ion:228 Resp: 4688928

Ion Ratio Lower Upper

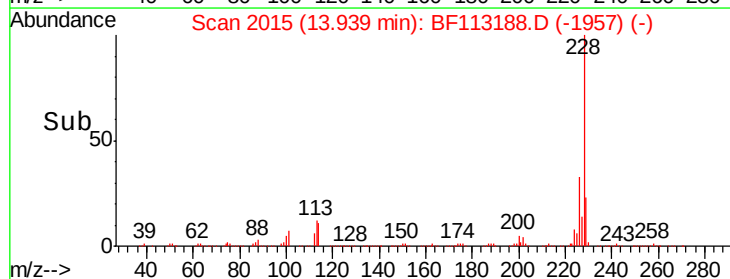
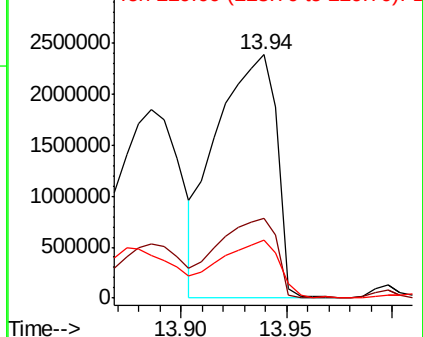
228 100

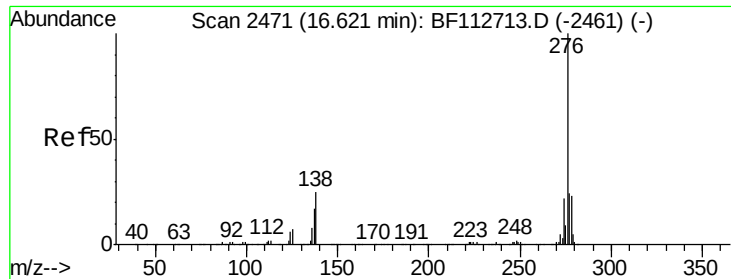
226 32.9 24.6 36.8

229 23.6 16.2 24.2



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

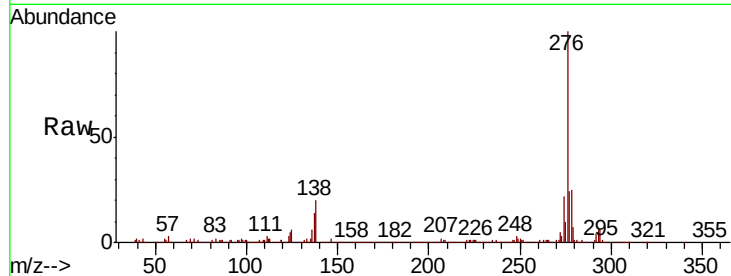




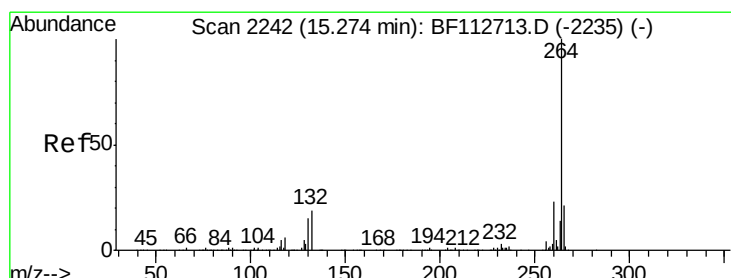
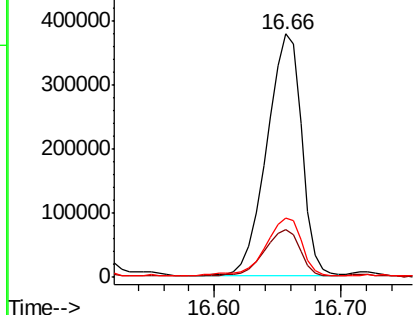
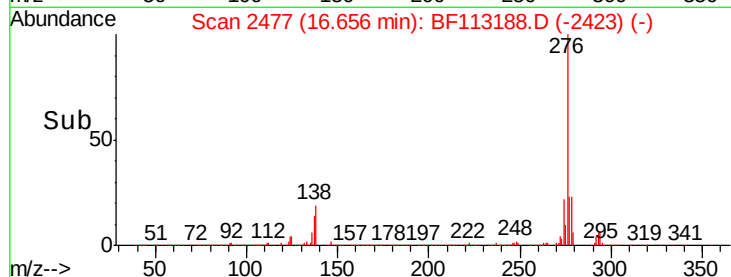
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 45.485 ng
 RT: 16.66 min Scan# 2477
 Delta R.T. 0.02 min
 Lab File: BF113188.D
 Acq: 21 Mar 2019 00:26

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.8	18.6	28.0
277	25.1	20.2	30.2

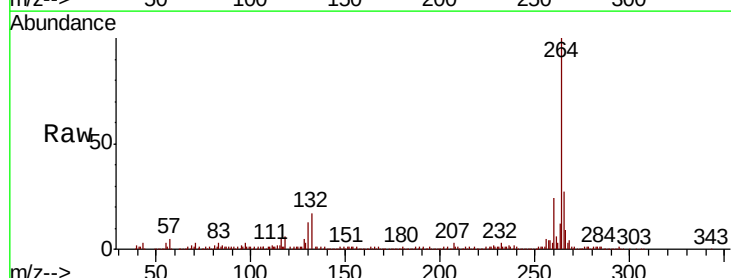


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

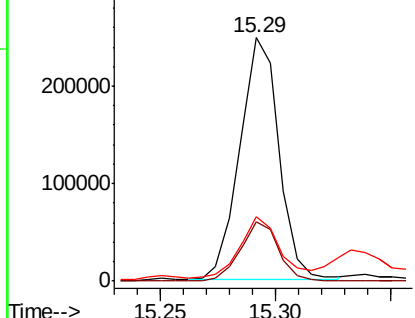
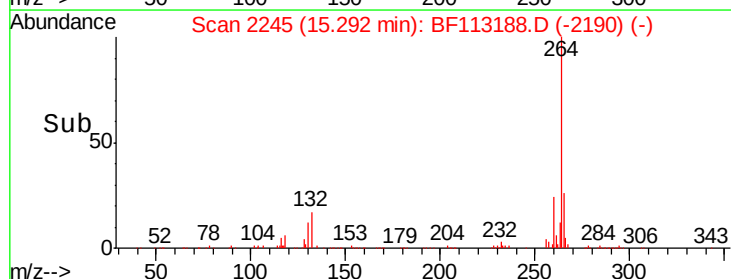


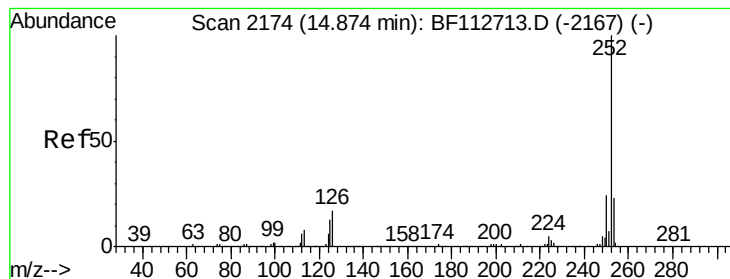
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.29 min Scan# 2245
 Delta R.T. 0.02 min
 Lab File: BF113188.D
 Acq: 21 Mar 2019 00:26

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.2	28.8
265	26.6	17.7	26.5#



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: 224.222 ng

RT: 14.92 min Scan# 2181

Delta R.T. 0.04 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

Instrument :

BNA_F

ClientSampleId :

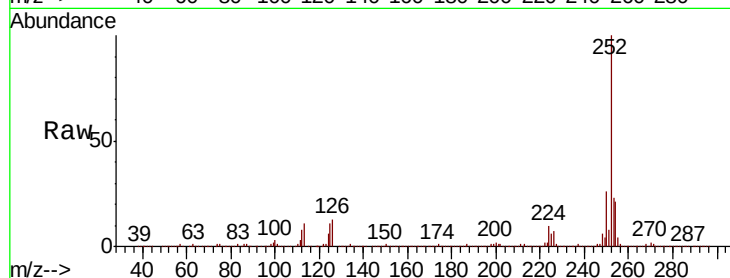
Tot Ion:252 Resp: 4268693

Ion Ratio Lower Upper

252 100

253 23.3 18.2 27.4

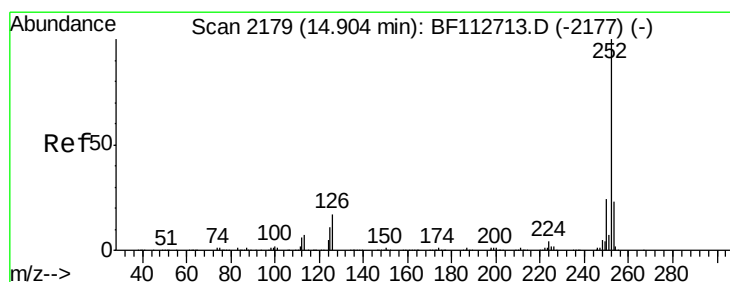
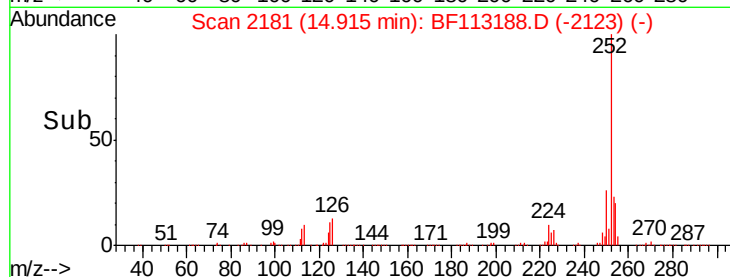
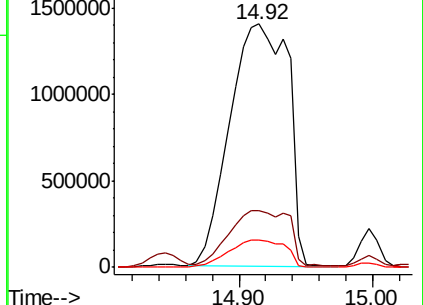
125 11.4 8.0 12.0



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: 247.540 ng

RT: 14.92 min Scan# 2181

Delta R.T. 0.01 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

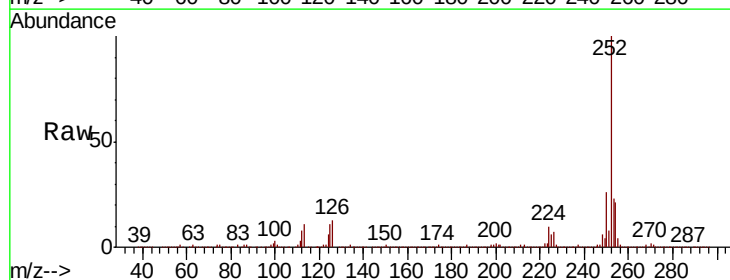
Tgt Ion:252 Resp: 4268693

Ion Ratio Lower Upper

252 100

253 23.3 17.9 26.9

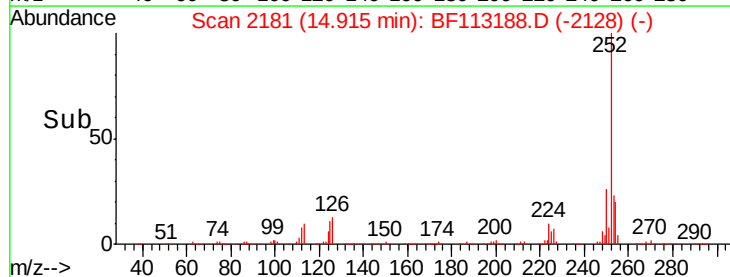
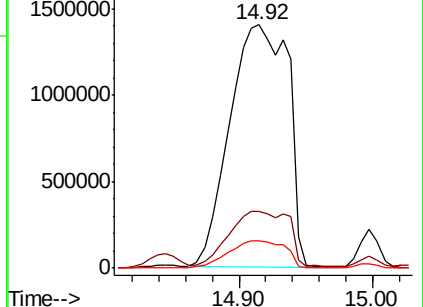
125 11.4 8.2 12.2

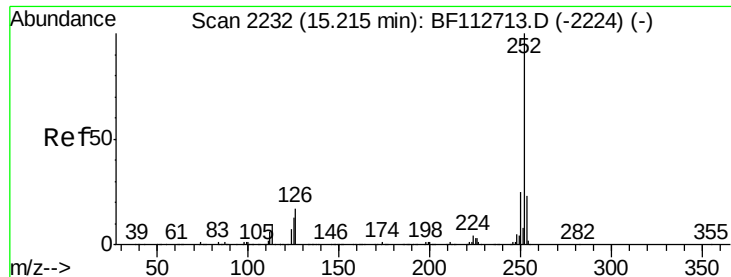


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 55.675 ng

RT: 15.24 min Scan# 2237

Delta R.T. 0.03 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

Instrument :

BNA_F

ClientSampleId :

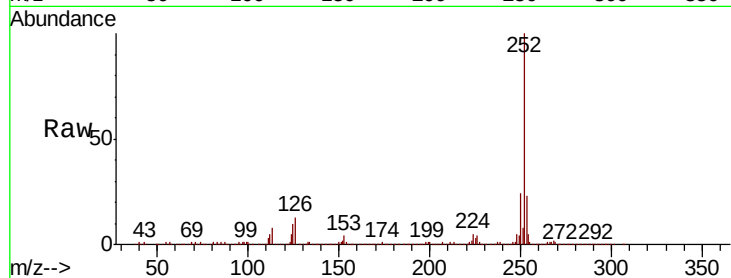
Tot Ion:252 Resp: 937515

Ion Ratio Lower Upper

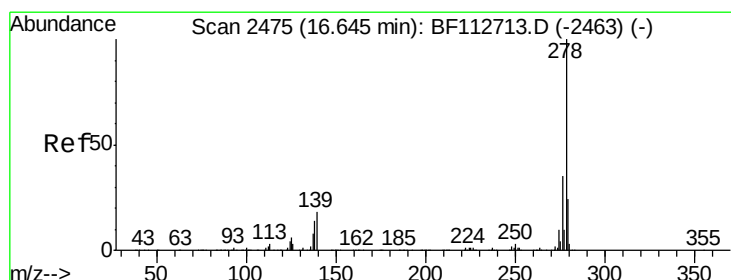
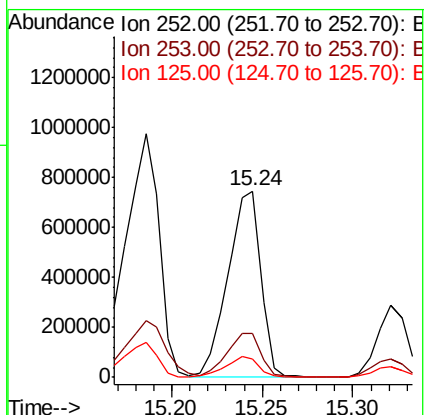
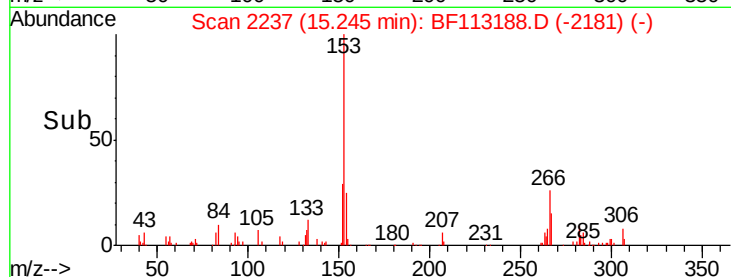
252 100

253 23.4 17.8 26.6

125 9.9 9.1 13.7



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 9.279 ng

RT: 16.86 min Scan# 2512

Delta R.T. 0.21 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

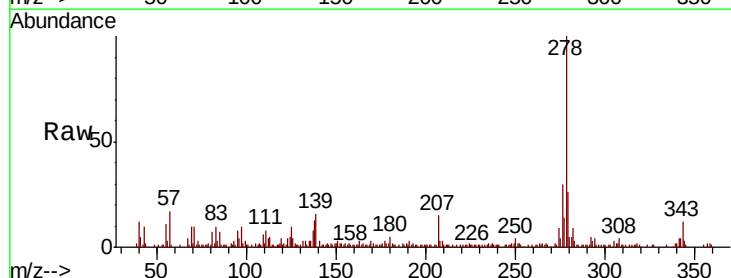
Tgt Ion:278 Resp: 133330

Ion Ratio Lower Upper

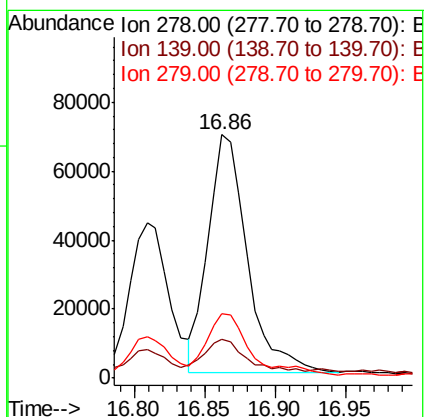
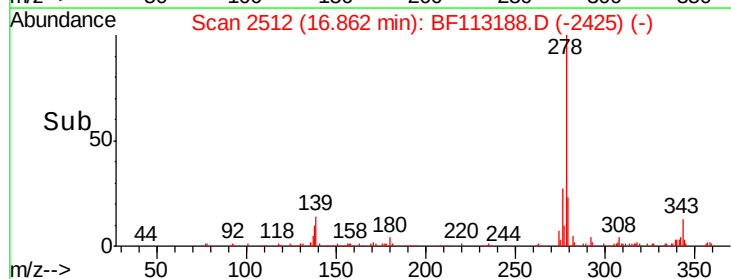
278 100

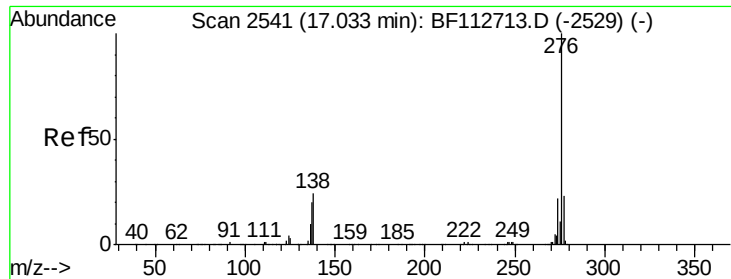
139 16.2 11.8 17.8

279 26.3 19.0 28.4



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(a,h,i)perylene

Concen: 35.046 ng

RT: 17.07 min Scan# 2547

Delta R.T. 0.02 min

Lab File: BF113188.D

Acq: 21 Mar 2019 00:26

Instrument :

BNA_F

ClientSampleId :

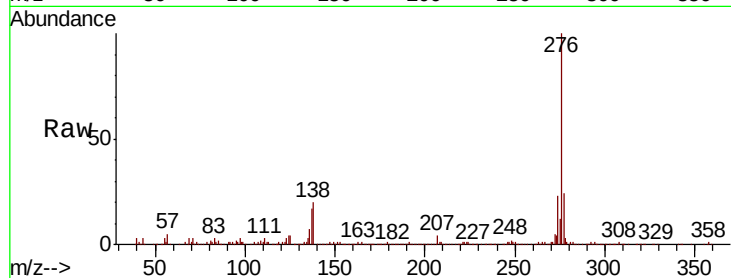
Tot Ion:276 Resp: 505669

Ion Ratio Lower Upper

276 100

277 24.2 19.4 29.0

138 20.1 16.2 24.4



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

