

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
 Data File : BF112154.D
 Acq On : 21 Jan 2019 13:10
 Operator : JU/SJ
 Sample : K1011-07RE 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 21 13:40:33 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 19 01:02:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	298823	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	1156423	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	544488	20.00	ng	-0.01
64) Phenanthrene-d10	11.37	188	882283	20.00	ng	-0.01
76) Chrysene-d12	14.02	240	685190	20.00	ng	-0.01
87) Perylene-d12	15.49	264	678058	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.48	112	390557	23.72	ng	-0.01
7) Phenol-d6	6.49	99	504900	24.51	ng	-0.01
23) Nitrobenzene-d5	7.40	82	295418	17.65	ng	-0.02
42) 2,4,6-Tribromophenol	10.67	330	126492	21.53	ng	-0.02
45) 2-Fluorobiphenyl	9.20	172	695589	18.73	ng	-0.01
79) Terphenyl-d14	12.96	244	538816	16.73	ng	-0.01

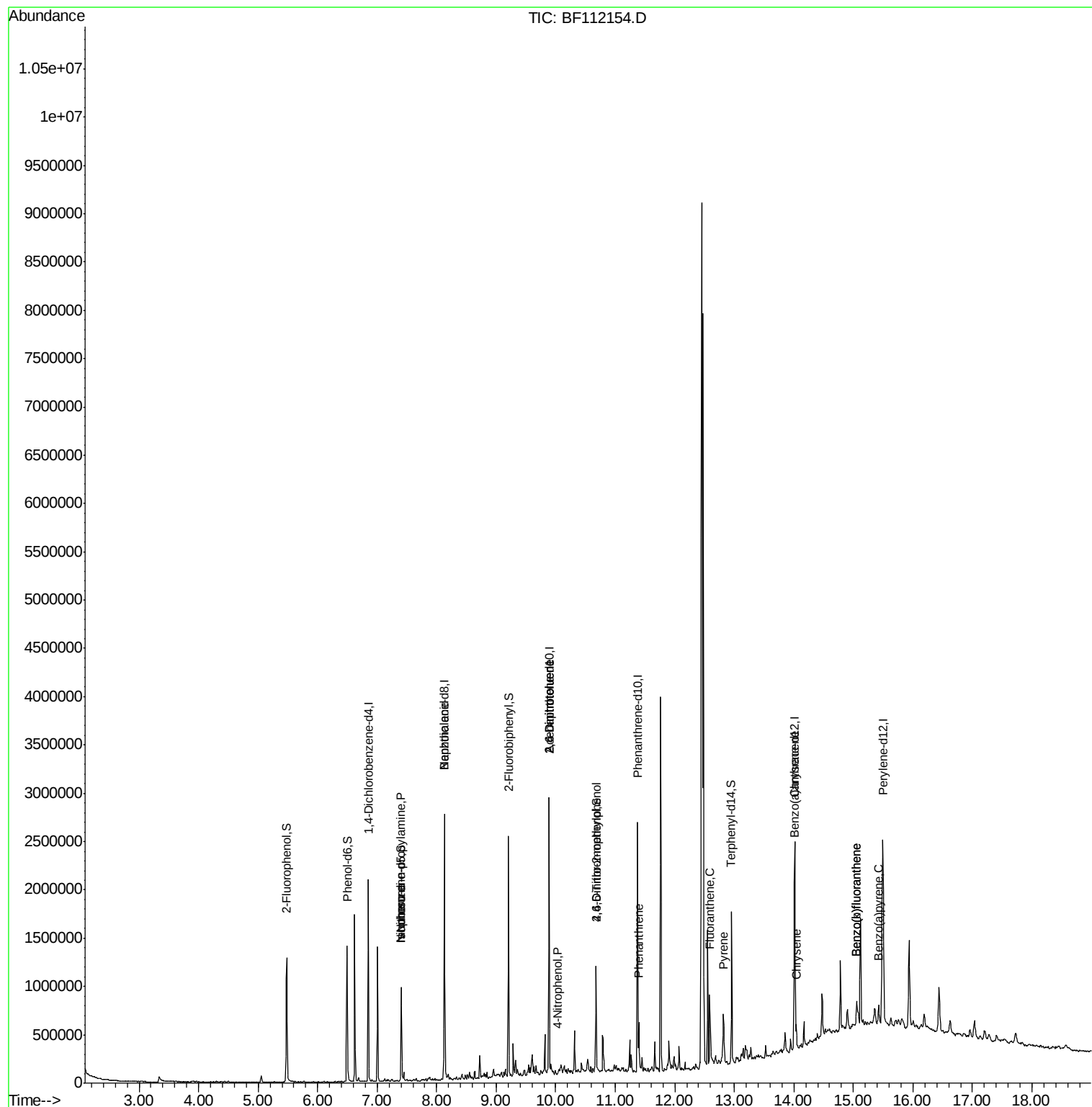
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.49	77	1338	Below Cal		# 1
19) n-Nitroso-di-n-propylamine	7.40	70	41743	3.326	ng	# 75
25) Isophorone	7.40	82	290395	8.982	ng	# 64
32) Benzoic acid	8.13	122	385	7.229	ng	# 1
51) 2,6-Dinitrotoluene	9.89	165	72573	9.152	ng	# 34
56) 4-Nitrophenol	10.03	139	708	5.759	ng	# 1
57) 2,4-Dinitrotoluene	9.89	165	72573	11.030	ng	# 32
65) 4,6-Dinitro-2-methylphenol	10.67	198	137	10.099	ng	# 1
71) Phenanthrene	11.40	178	179516	4.043	ng	96
75) Fluoranthene	12.59	202	237521	5.067	ng	97
78) Pyrene	12.82	202	210660	4.660	ng	97
81) Benzo(a)anthracene	14.00	228	111248	2.832	ng	98
83) Chrysene	14.04	228	91646	2.465	ng	96
88) Benzo(b)fluoranthene	15.06	252	174068	4.523	ng	# 91
89) Benzo(k)fluoranthene	15.06	252	174068	4.673	ng	# 92
90) Benzo(a)pyrene	15.42	252	95278	2.699	ng	# 92

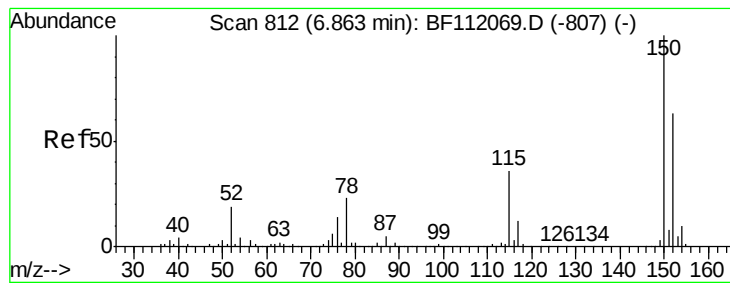
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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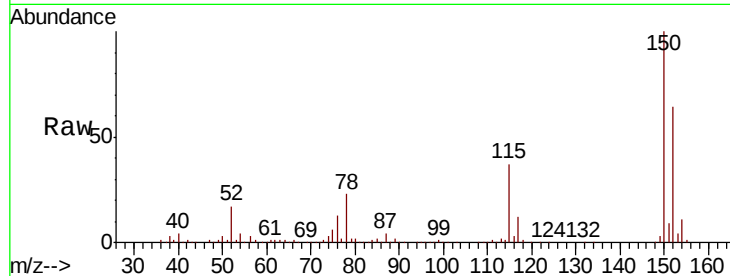


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.01 min
Lab File: BF112154.D
Acq: 21 Jan 2019 13:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	127.4	191.0
115	57.7	45.5	68.3

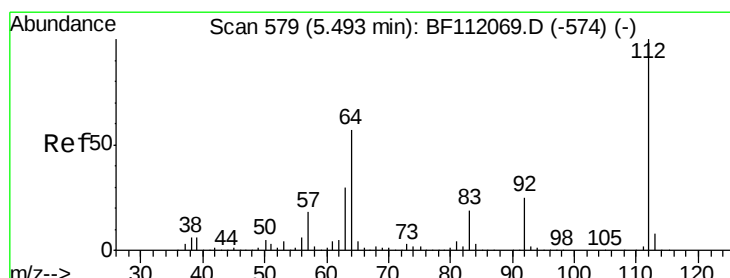
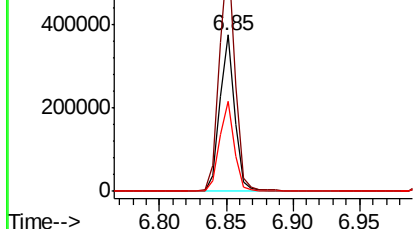
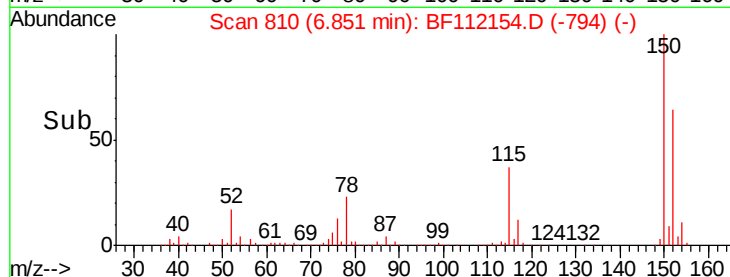


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

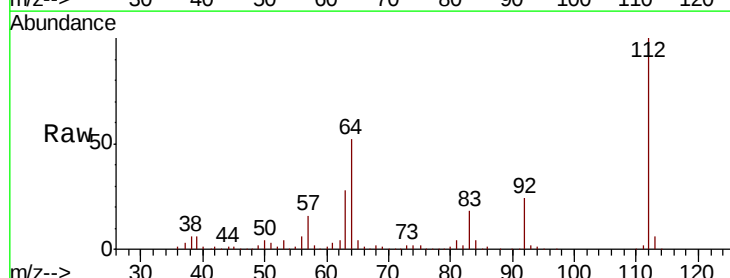
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 23.722 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.01 min
Lab File: BF112154.D
Acq: 21 Jan 2019 13:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.2	45.7	68.5
63	28.1	23.6	35.4

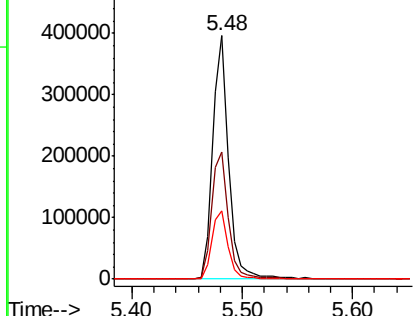
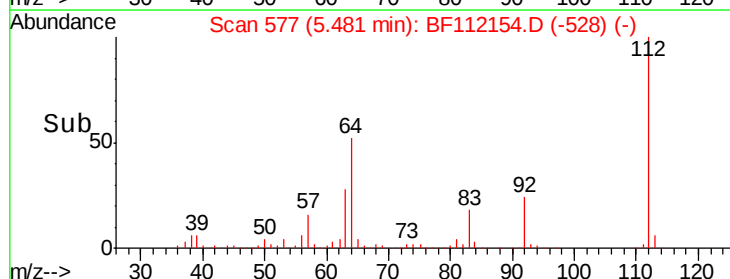


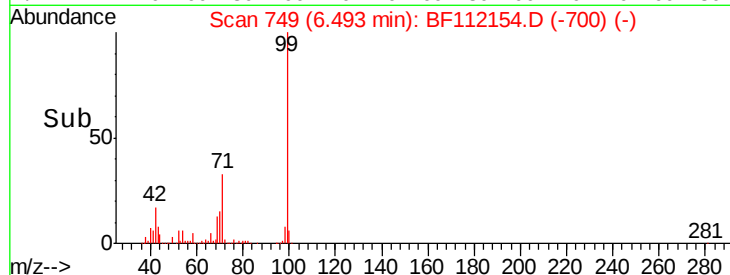
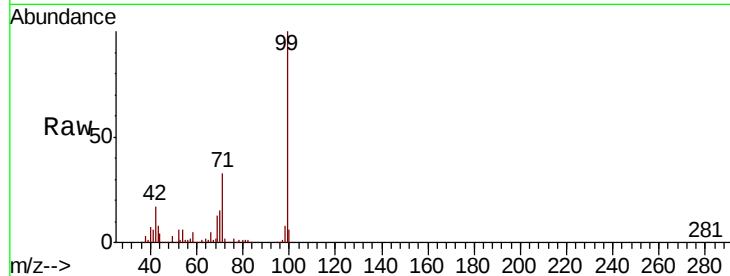
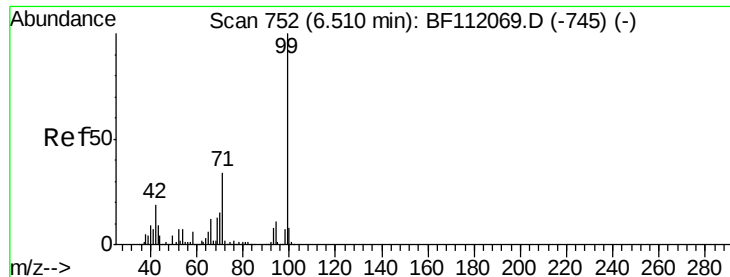
Abundance

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: 24.511 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF112154.D

Acq: 21 Jan 2019 13:10

Instrument :

BNA_F

ClientSampleId :

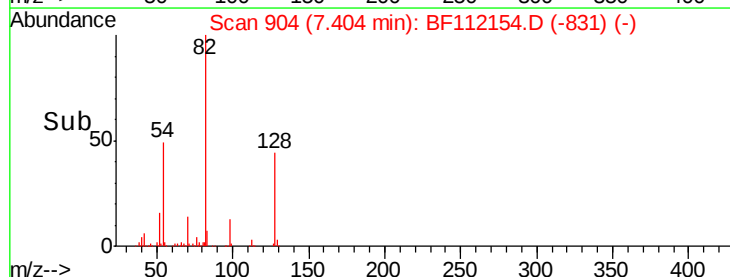
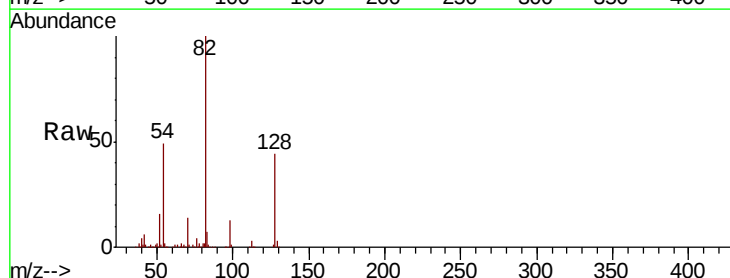
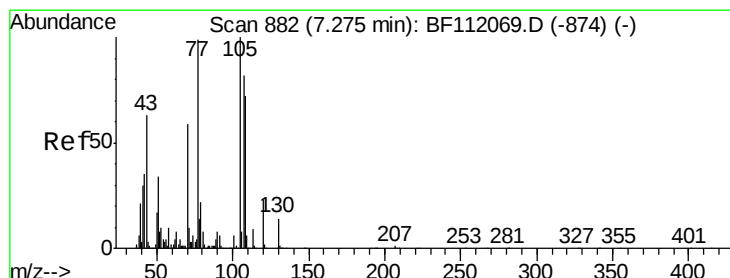
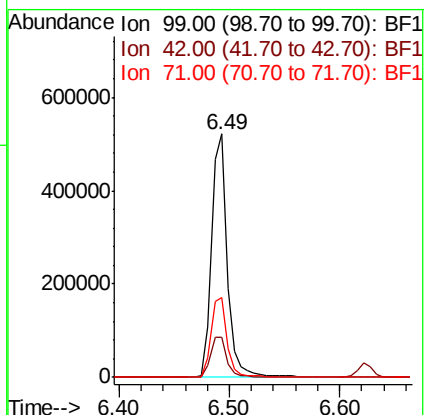
Tot Ion: 99 Resp: 504900

Ion Ratio Lower Upper

99 100

42 16.7 15.1 22.7

71 32.9 26.9 40.3



#19

n-Nitroso-di-n-propylamine

Concen: 3.326 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.13 min

Lab File: BF112154.D

Acq: 21 Jan 2019 13:10

Tgt Ion: 70 Resp: 41743

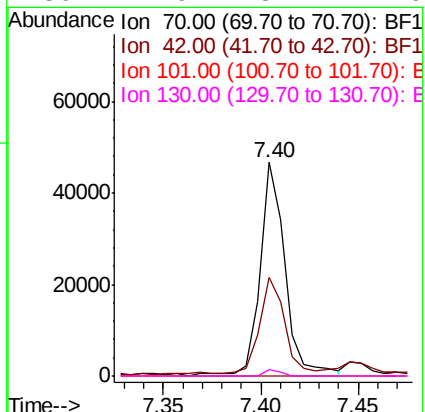
Ion Ratio Lower Upper

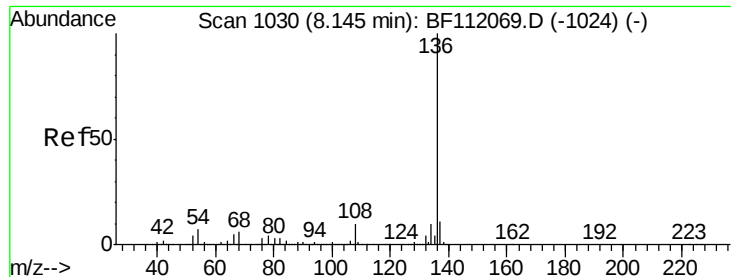
70 100

42 46.0 47.6 71.4#

101 0.0 7.9 11.9#

130 2.9 18.4 27.6#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BF112154.D

Acq: 21 Jan 2019 13:10

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 1156423

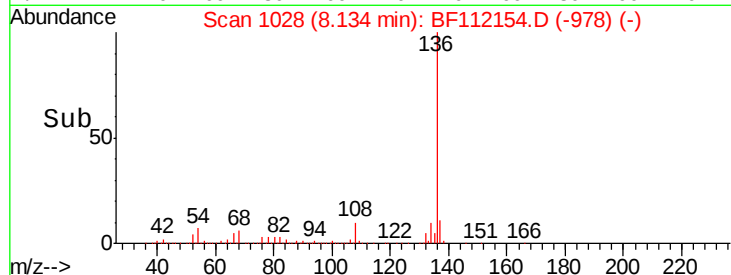
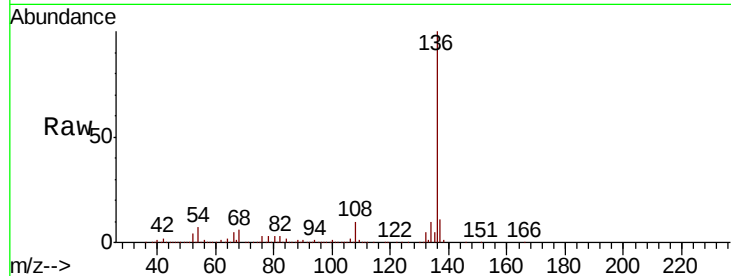
Ion Ratio Lower Upper

136 100

137 11.0 9.1 13.7

54 6.8 5.9 8.9

68 5.5 5.1 7.7

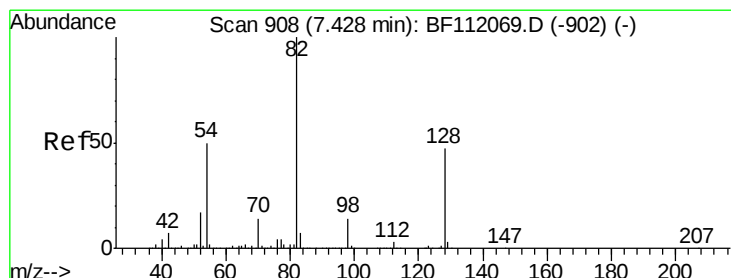
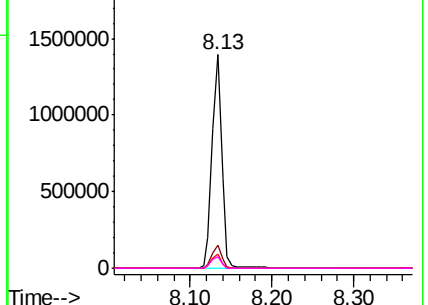


Abundance Ion 136.00 (135.70 to 136.70): E

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: 17.649 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.02 min

Lab File: BF112154.D

Acq: 21 Jan 2019 13:10

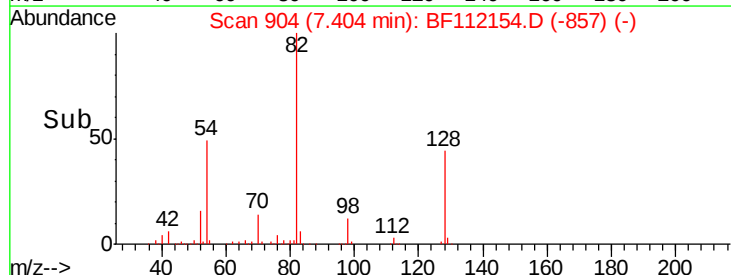
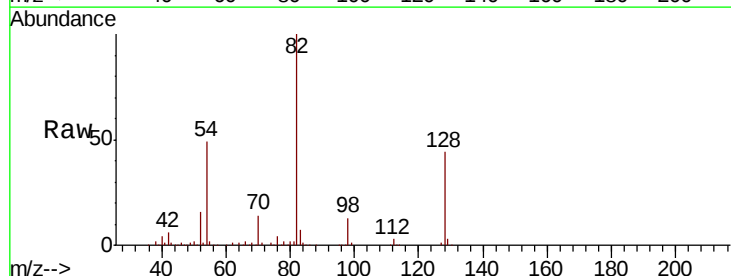
Tgt Ion: 82 Resp: 295418

Ion Ratio Lower Upper

82 100

128 44.1 37.8 56.8

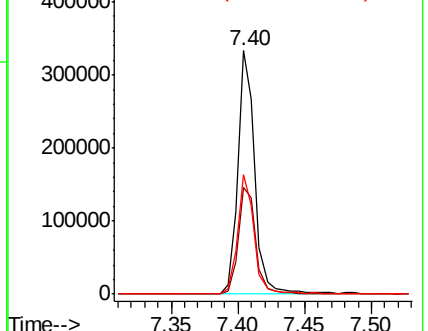
54 49.1 39.7 59.5

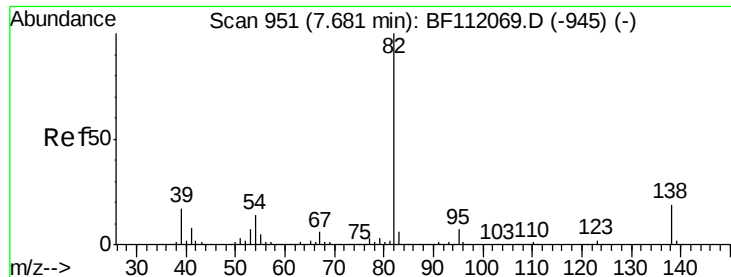


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 8.982 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.28 min

Lab File: BF112154.D

Acq: 21 Jan 2019 13:10

Instrument :

BNA_F

ClientSampleId :

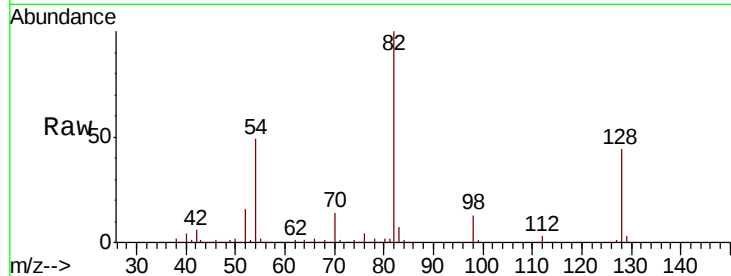
Tot Ion: 82 Resp: 290395

Ion Ratio Lower Upper

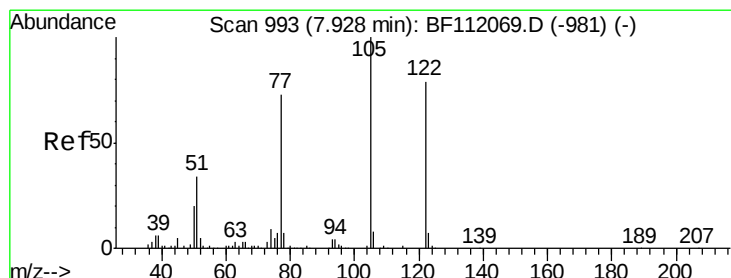
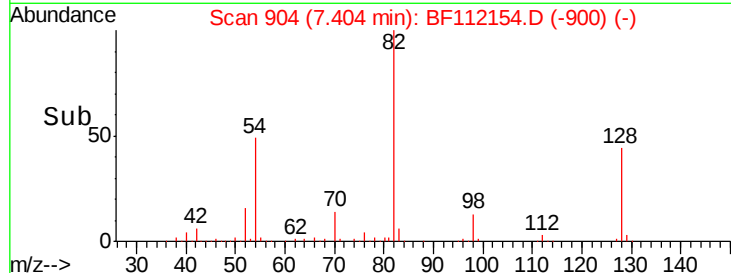
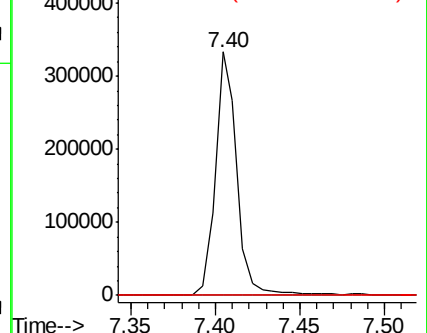
82 100

95 0.2 5.7 8.5#

138 0.0 15.4 23.0#



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



#32

Benzoic acid

Concen: 7.229 ng

RT: 8.13 min Scan# 1028

Delta R.T. 0.19 min

Lab File: BF112154.D

Acq: 21 Jan 2019 13:10

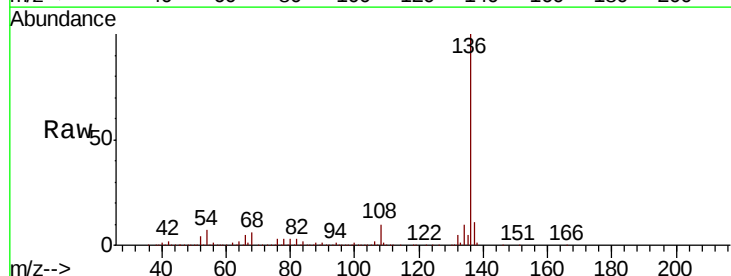
Tgt Ion: 122 Resp: 385

Ion Ratio Lower Upper

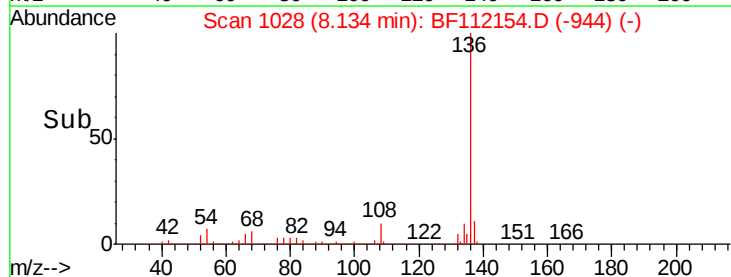
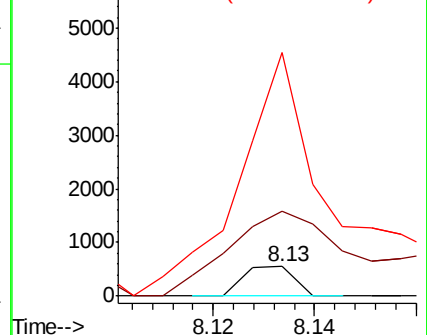
122 100

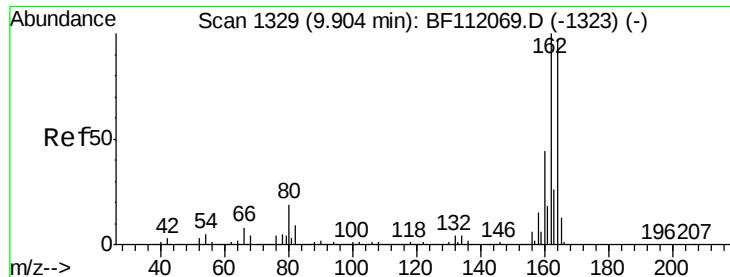
105 287.8 101.2 141.2#

77 826.0 70.4 110.4#



Abundance Ion 122.00 (121.70 to 122.70): BF1
Ion 105.00 (104.70 to 105.70): BF1
Ion 77.00 (76.70 to 77.70): BF1

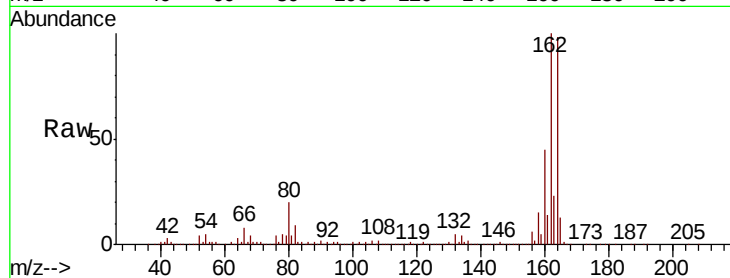




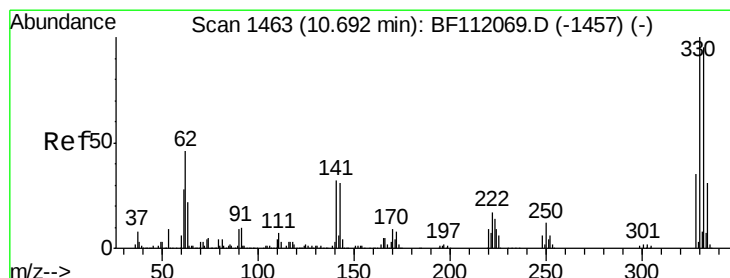
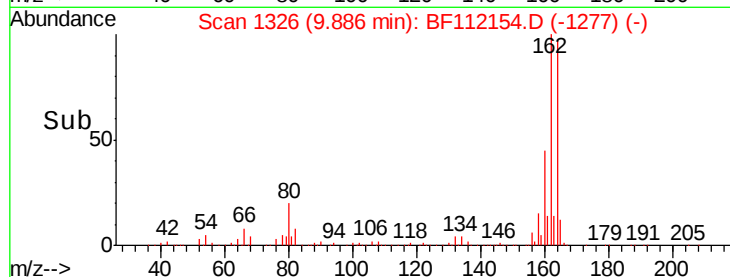
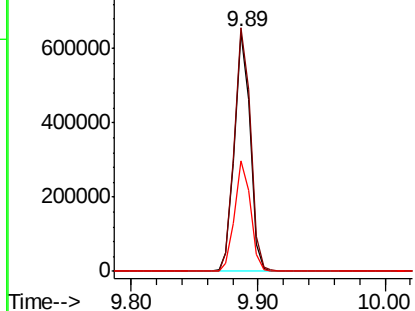
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.01 min
Lab File: BF112154.D
Acq: 21 Jan 2019 13:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 544488
Ion Ratio Lower Upper
164 100
162 102.1 82.2 123.4
160 46.3 36.2 54.4

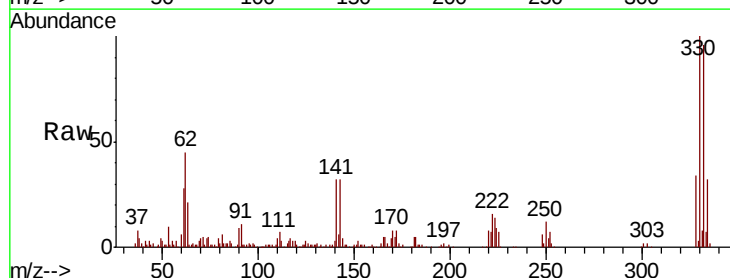


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

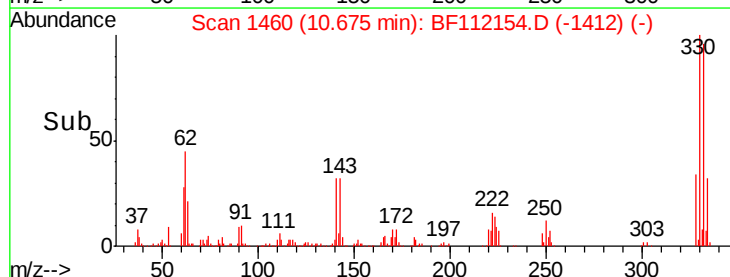
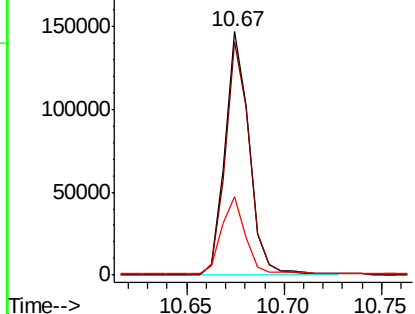


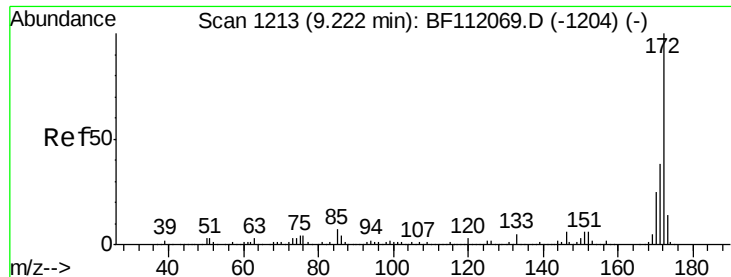
#42
2,4,6-Tribromophenol
Concen: 21.535 ng
RT: 10.67 min Scan# 1460
Delta R.T. -0.02 min
Lab File: BF112154.D
Acq: 21 Jan 2019 13:10

Tgt Ion:330 Resp: 126492
Ion Ratio Lower Upper
330 100
332 97.5 76.6 114.8
141 32.3 24.3 36.5



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

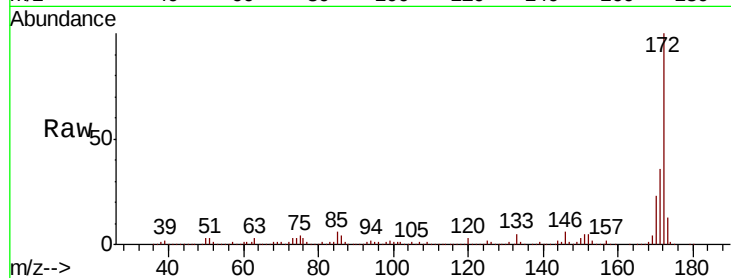




#45
 2-Fluorobiphenyl
 Concen: 18.730 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF112154.D
 Acq: 21 Jan 2019 13:10

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	30.5	45.7
170	22.9	20.2	30.4

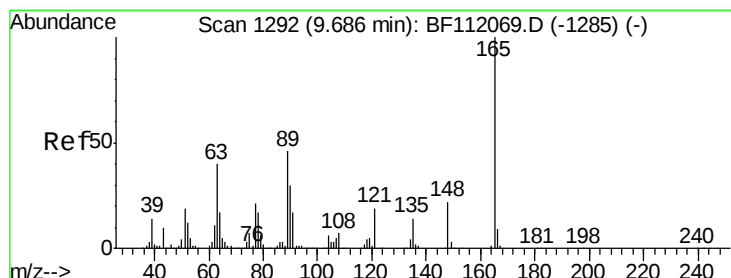
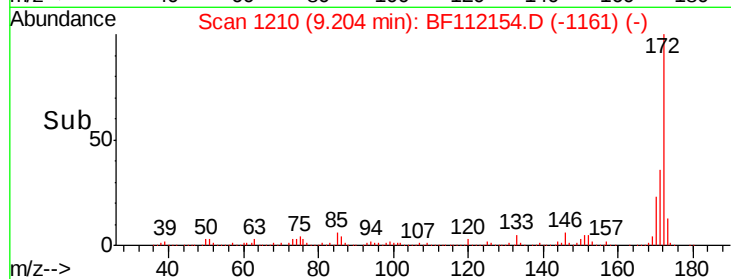
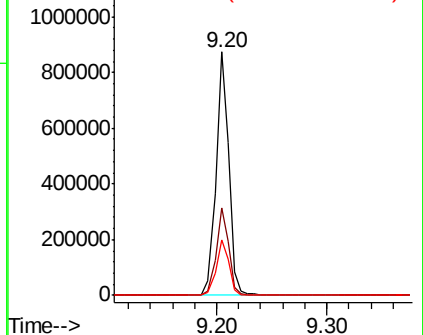


Abundance

Ion 172.00 (171.70 to 172.70): E

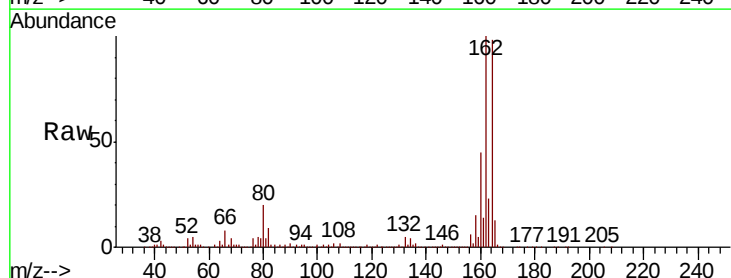
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#51
 2,6-Dinitrotoluene
 Concen: 9.152 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. 0.21 min
 Lab File: BF112154.D
 Acq: 21 Jan 2019 13:10

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	33.8	50.8#
89	1.3	36.9	55.3#

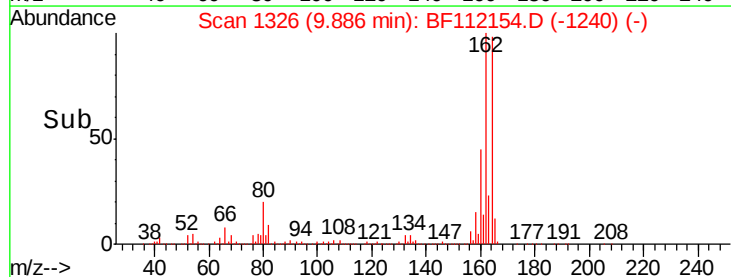
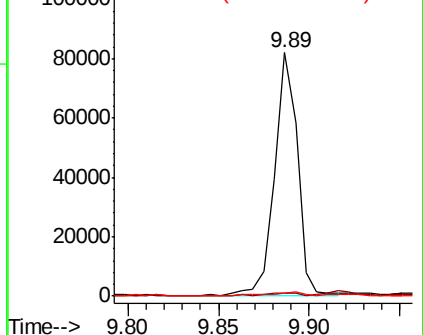


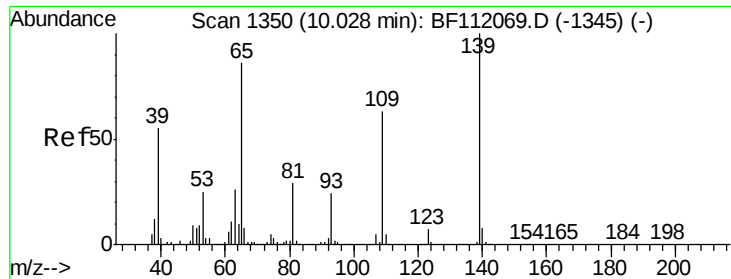
Abundance

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

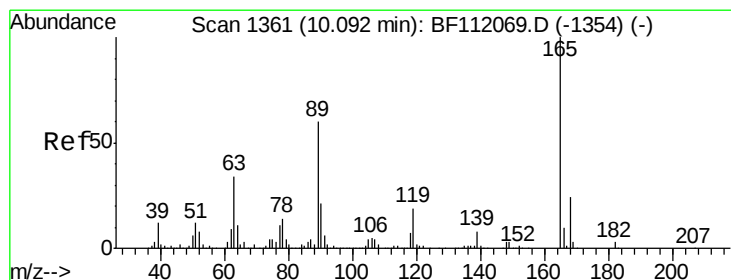
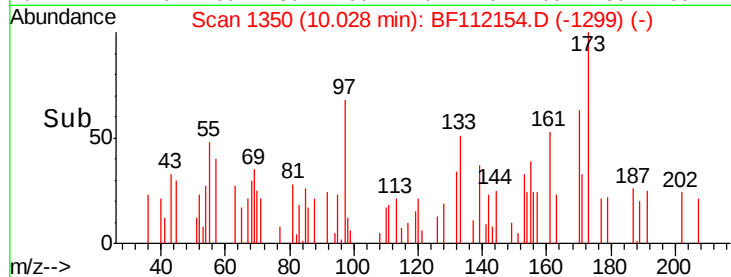
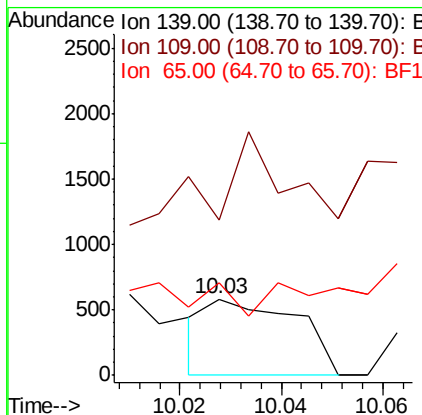
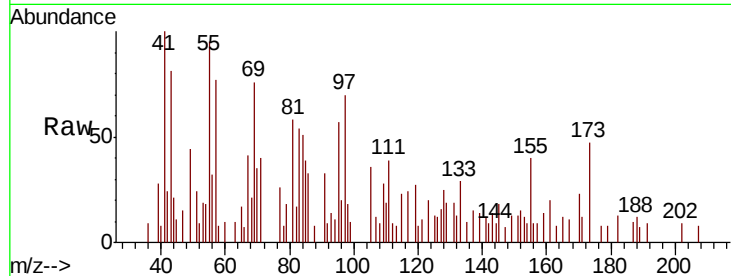




#56
4-Nitrophenol
Concen: 5.759 ng
RT: 10.03 min Scan# 1350
Delta R.T. 0.00 min
Lab File: BF112154.D
Acq: 21 Jan 2019 13:10

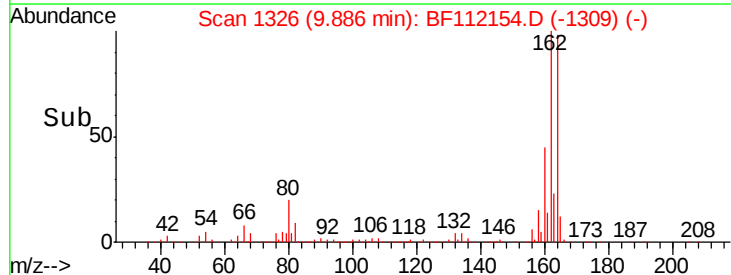
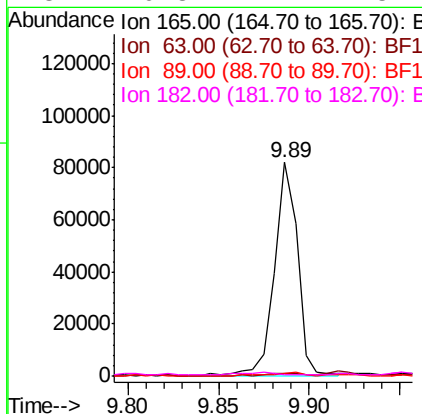
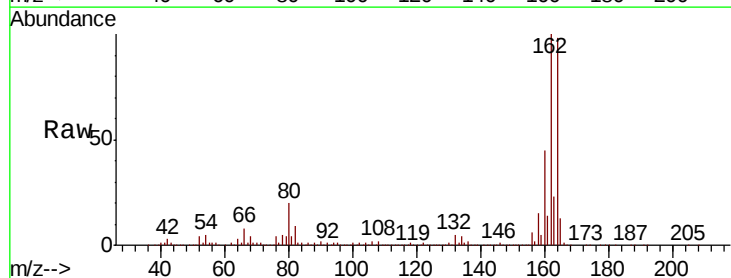
Instrument :
BNA_F
ClientSampled :

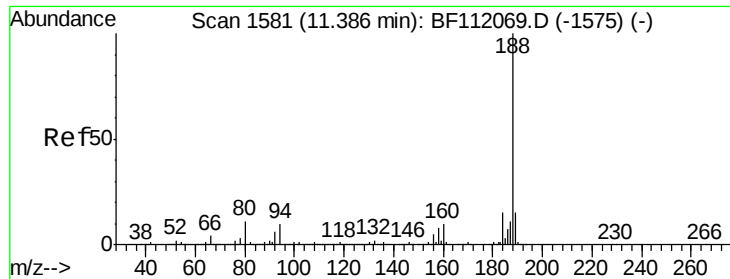
Tot Ion:139 Resp: 708
Ion Ratio Lower Upper
139 100
109 204.3 42.8 82.8#
65 121.3 66.1 106.1#



#57
2,4-Dinitrotoluene
Concen: 11.030 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.20 min
Lab File: BF112154.D
Acq: 21 Jan 2019 13:10

Tgt Ion:165 Resp: 72573
Ion Ratio Lower Upper
165 100
63 1.3 27.9 41.9#
89 1.3 47.9 71.9#
182 0.8 2.2 3.4#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.37 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BF112154.D

Acq: 21 Jan 2019 13:10

Instrument :

BNA_F

ClientSampleId :

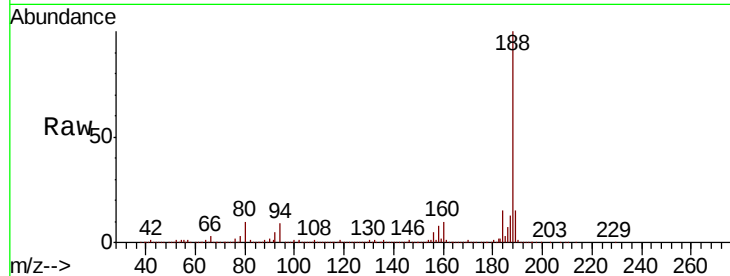
Tot Ion:188 Resp: 882283

Ion Ratio Lower Upper

188 100

94 8.8 8.2 12.2

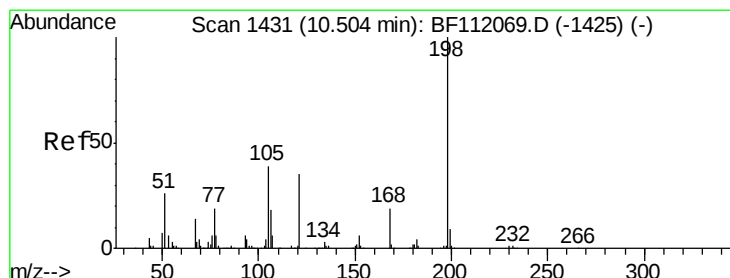
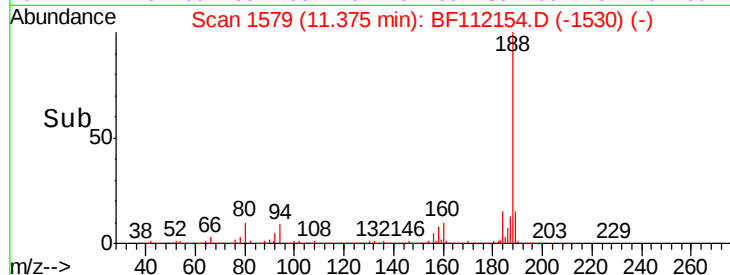
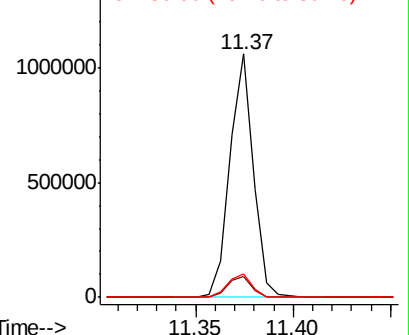
80 9.6 8.9 13.3



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#65

4,6-Dinitro-2-methylphenol

Concen: 10.099 ng

RT: 10.67 min Scan# 1460

Delta R.T. 0.17 min

Lab File: BF112154.D

Acq: 21 Jan 2019 13:10

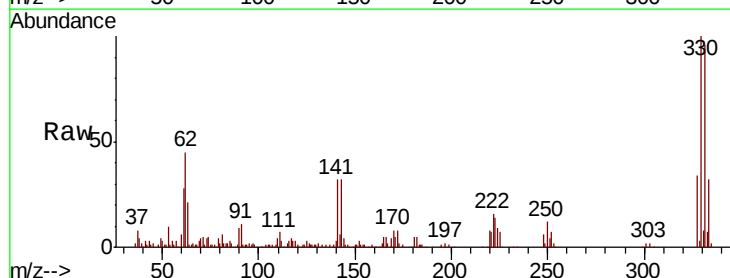
Tgt Ion:198 Resp: 137

Ion Ratio Lower Upper

198 100

51 475.8 17.2 57.2#

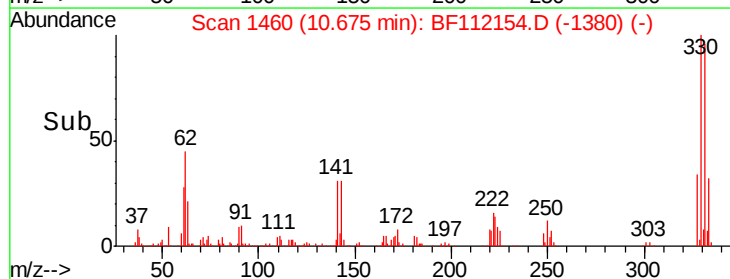
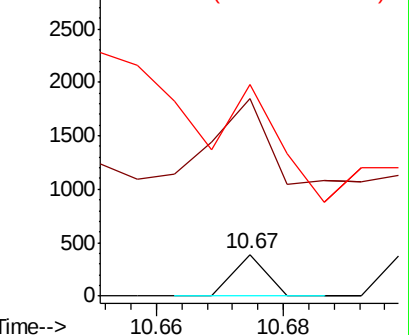
105 508.2 21.9 61.9#

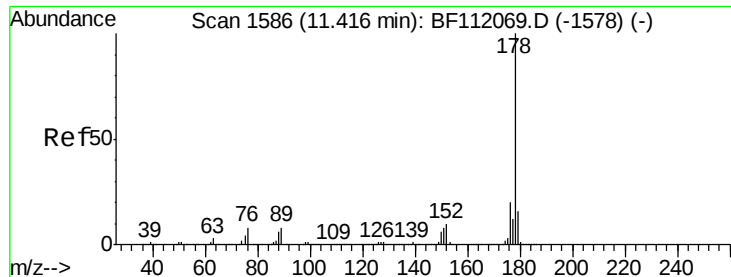


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E





#71

Phenanthrene

Concen: 4.043 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BF112154.D

Acq: 21 Jan 2019 13:10

Instrument :

BNA_F

ClientSampleId :

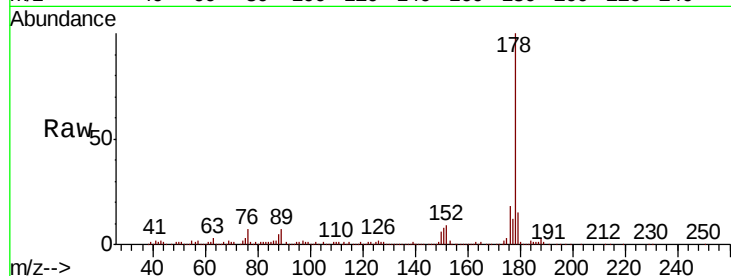
Tot Ion:178 Resp: 179516

Ion Ratio Lower Upper

178 100

176 18.1 16.3 24.5

179 15.3 13.0 19.4

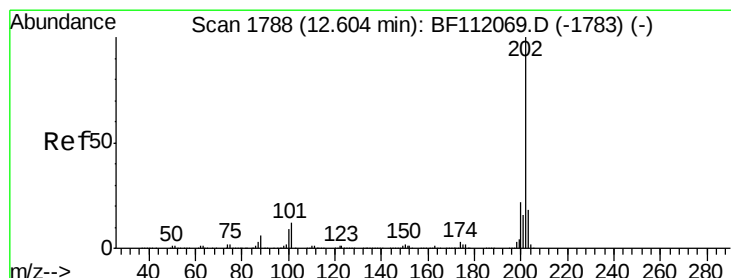
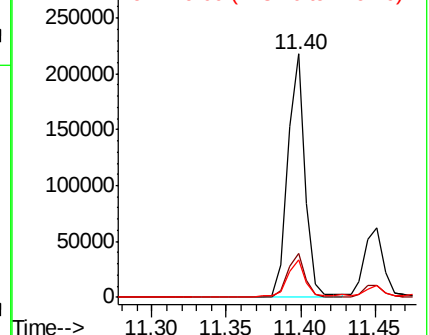
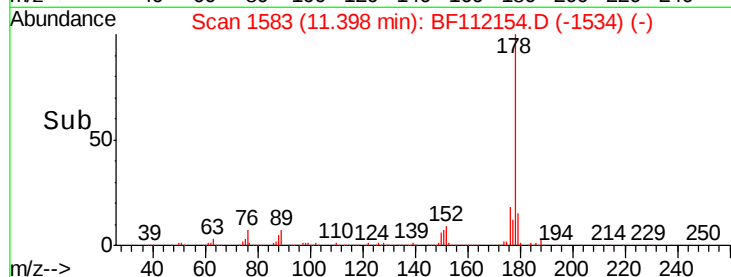


Abundance

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: 5.067 ng

RT: 12.59 min Scan# 1785

Delta R.T. -0.01 min

Lab File: BF112154.D

Acq: 21 Jan 2019 13:10

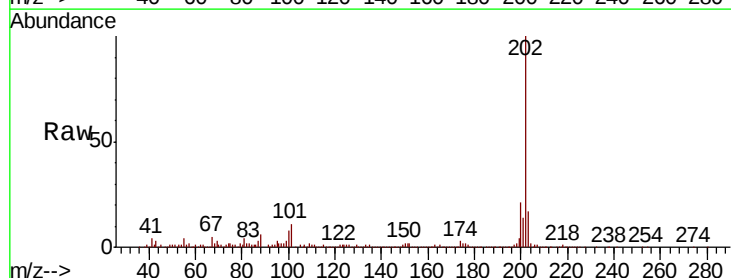
Tgt Ion:202 Resp: 237521

Ion Ratio Lower Upper

202 100

101 10.7 0.0 31.8

203 17.2 0.0 38.4

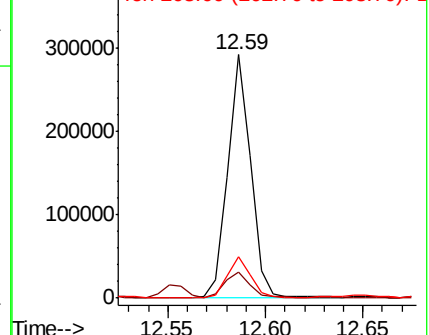
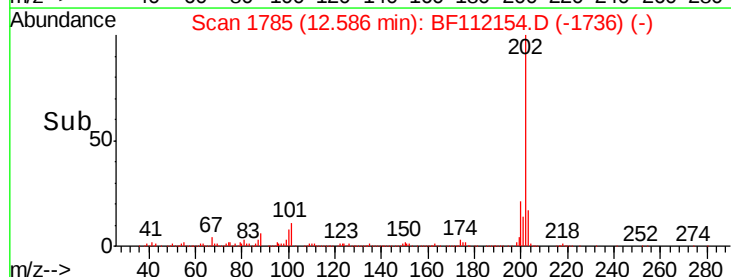


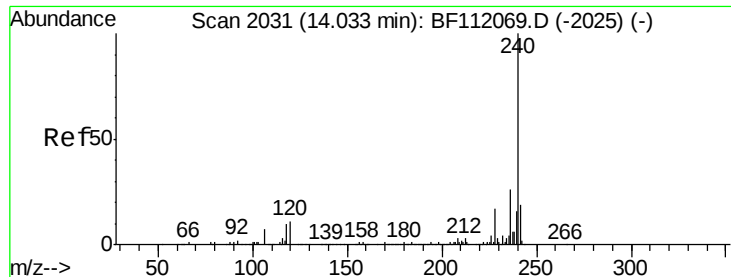
Abundance

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: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF112154.D

Acq: 21 Jan 2019 13:10

Instrument :

BNA_F

ClientSampleId :

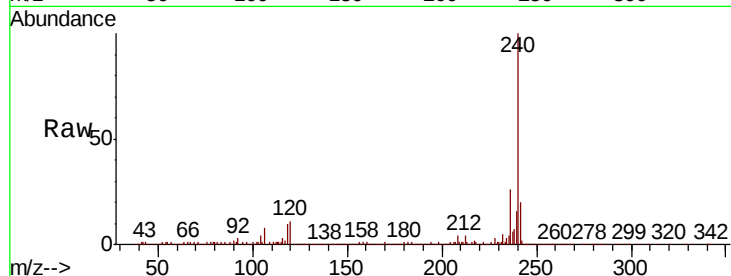
Tot Ion:240 Resp: 685190

Ion Ratio Lower Upper

240 100

120 11.3 9.0 13.6

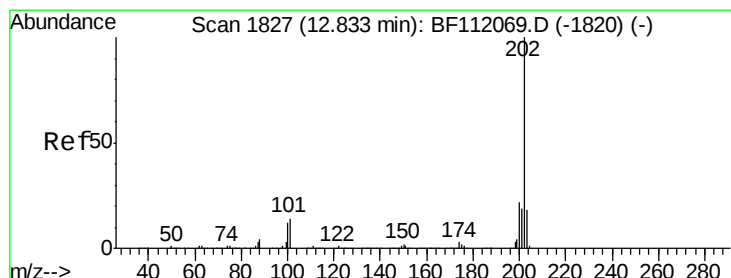
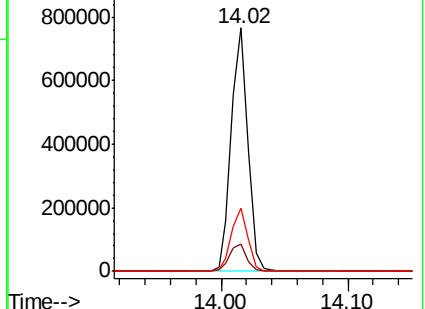
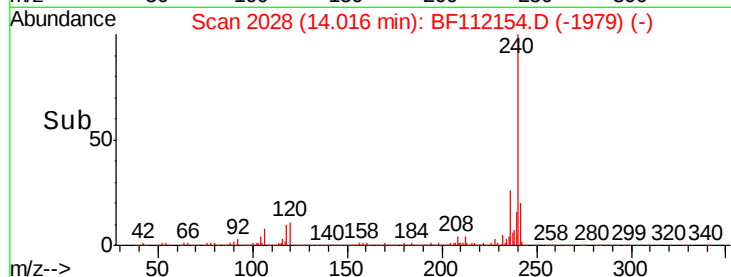
236 26.0 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 4.660 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF112154.D

Acq: 21 Jan 2019 13:10

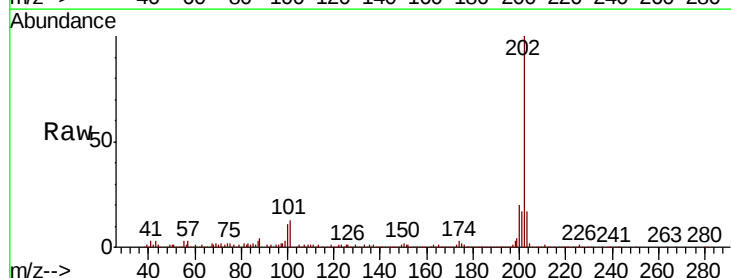
Tgt Ion:202 Resp: 210660

Ion Ratio Lower Upper

202 100

200 20.3 17.7 26.5

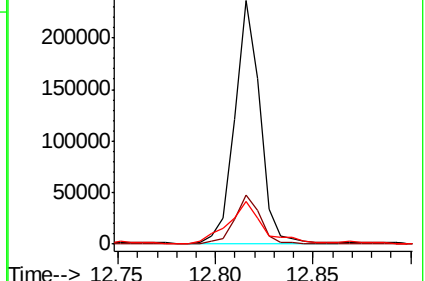
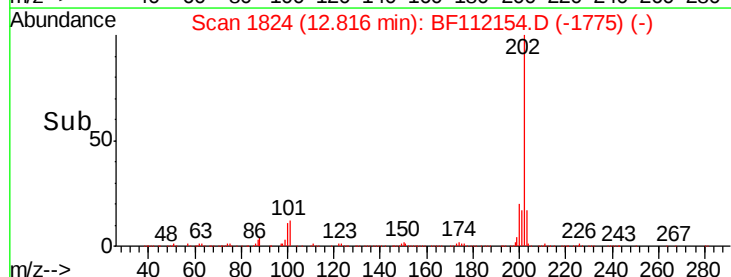
203 17.5 14.6 22.0

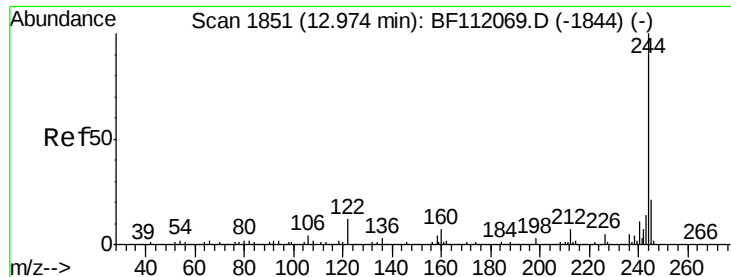


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 16.729 ng

RT: 12.96 min Scan# 1848

Delta R.T. -0.01 min

Lab File: BF112154.D

Acq: 21 Jan 2019 13:10

Instrument :

BNA_F

ClientSampleId :

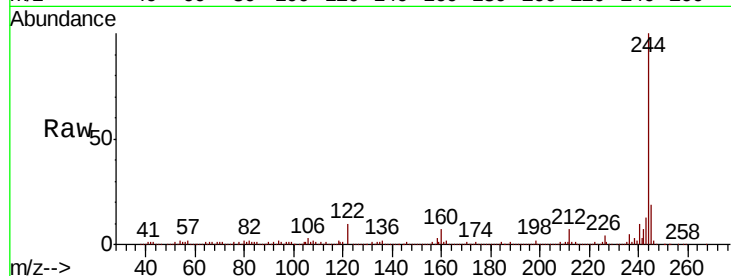
Tot Ion:244 Resp: 538816

Ion Ratio Lower Upper

244 100

212 6.7 5.9 8.9

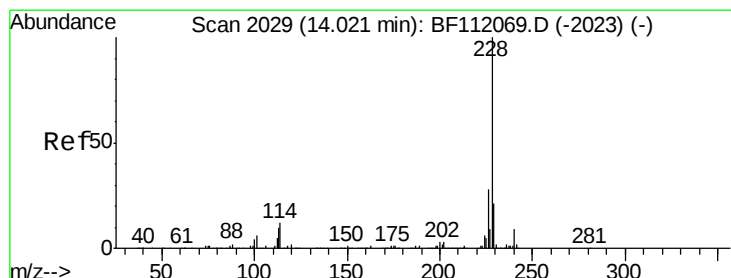
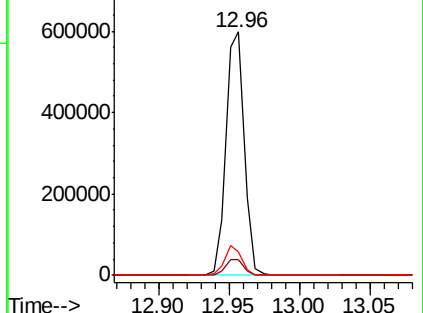
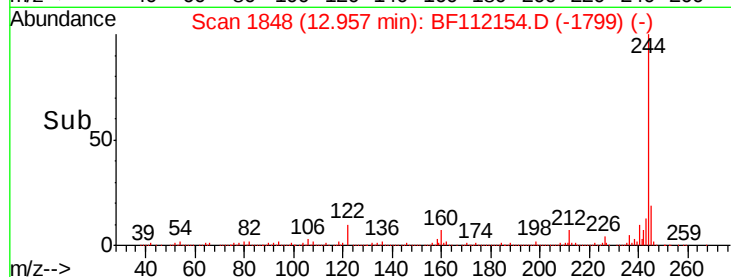
122 9.7 9.8 14.6#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 2.832 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF112154.D

Acq: 21 Jan 2019 13:10

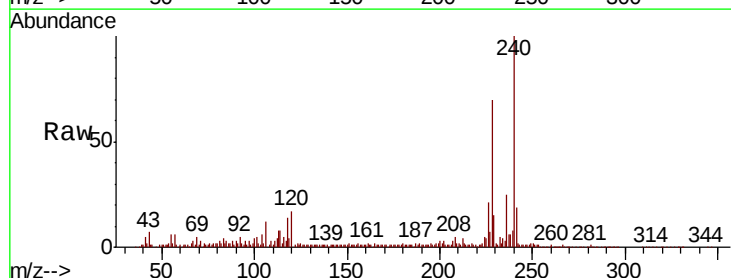
Tgt Ion:228 Resp: 111248

Ion Ratio Lower Upper

228 100

226 29.6 22.6 34.0

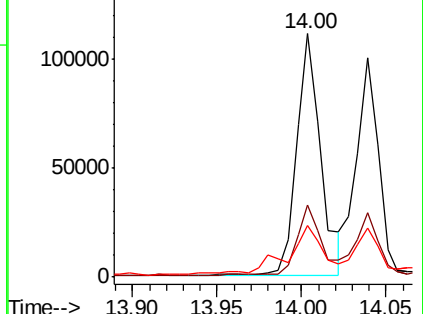
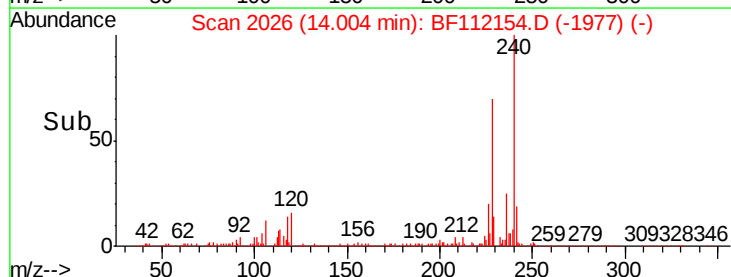
229 21.3 16.5 24.7

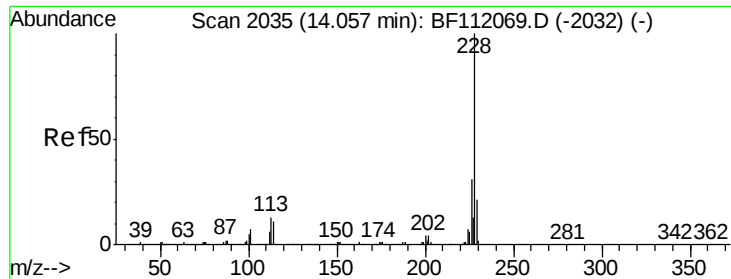


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

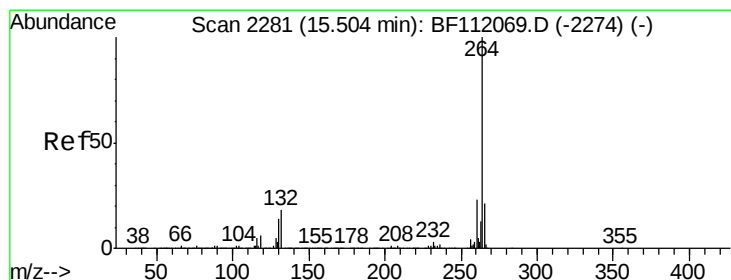
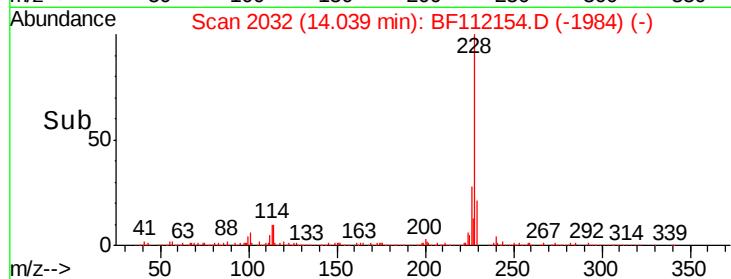
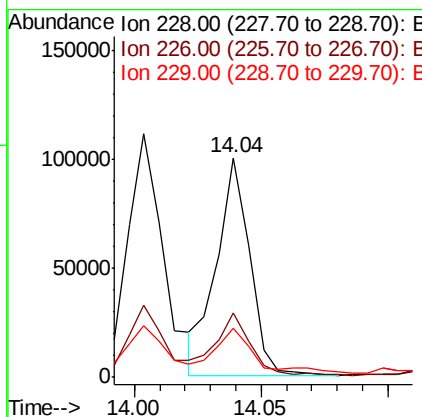
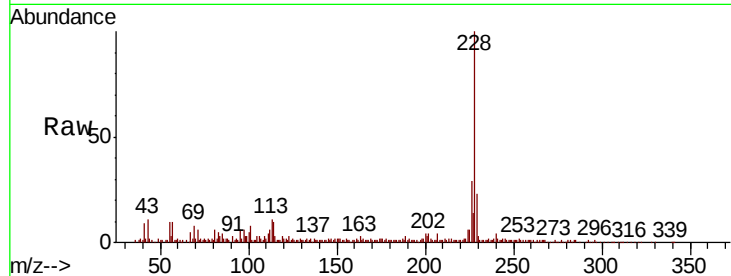




#83
Chrysene
Concen: 2.465 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.02 min
Lab File: BF112154.D
Acq: 21 Jan 2019 13:10

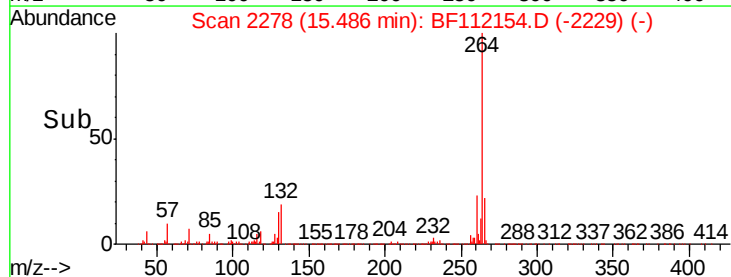
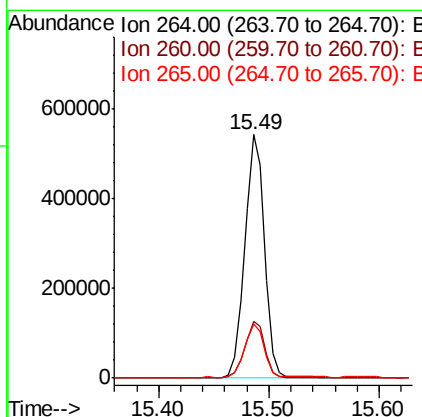
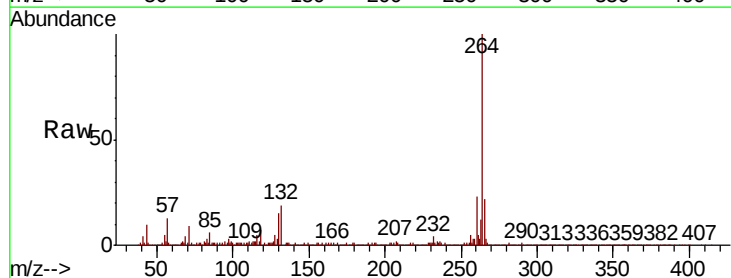
Instrument :
BNA_F
ClientSampled :

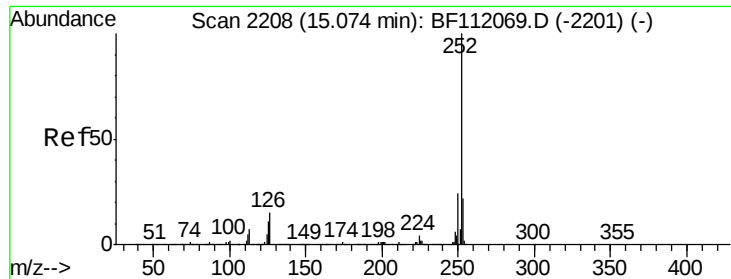
Tot Ion	Ratio	Lower	Upper
228	100		
226	29.4	25.0	37.6
229	22.5	16.6	24.8



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2278
Delta R.T. -0.01 min
Lab File: BF112154.D
Acq: 21 Jan 2019 13:10

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.2	27.2
265	22.1	17.0	25.4

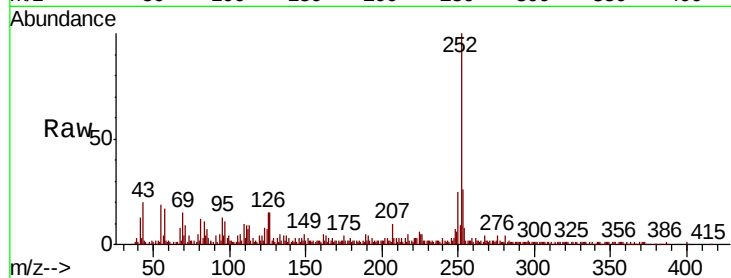




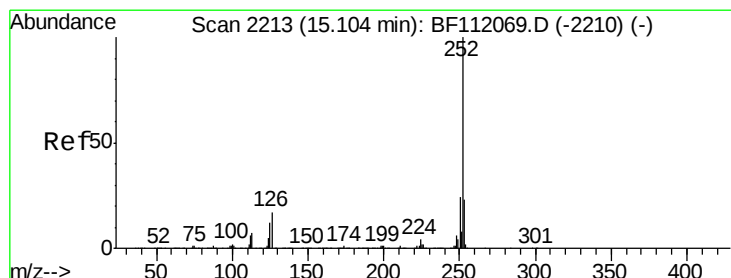
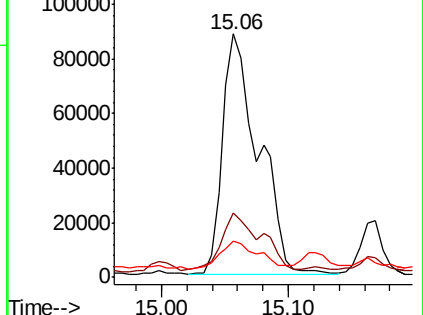
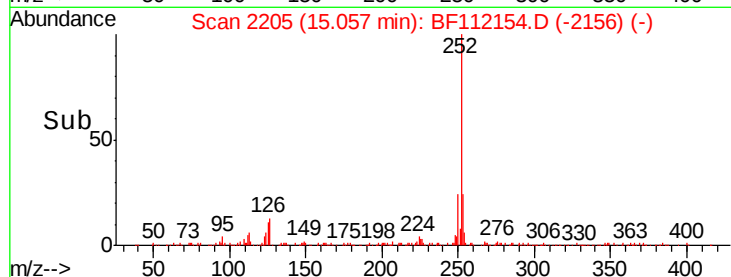
#88
Benzo(b)fluoranthene
Concen: 4.523 ng
RT: 15.06 min Scan# 2205
Delta R.T. -0.01 min
Lab File: BF112154.D
Acq: 21 Jan 2019 13:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.3	18.0	27.0
125	14.8	8.7	13.1#

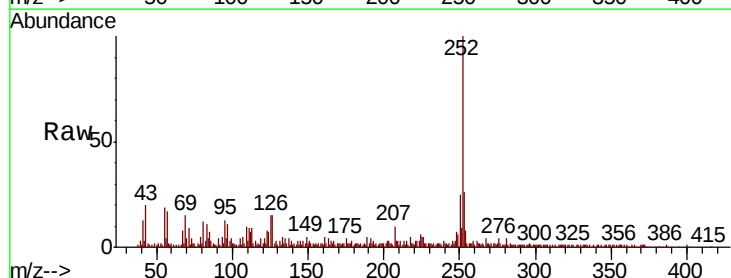


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

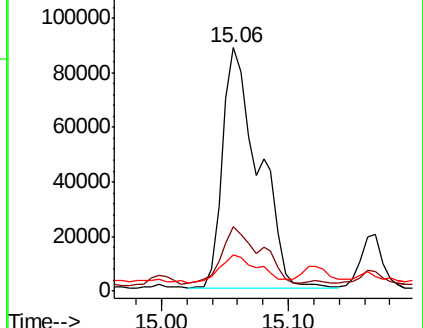
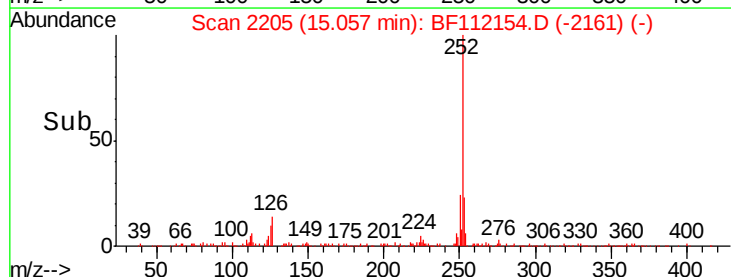


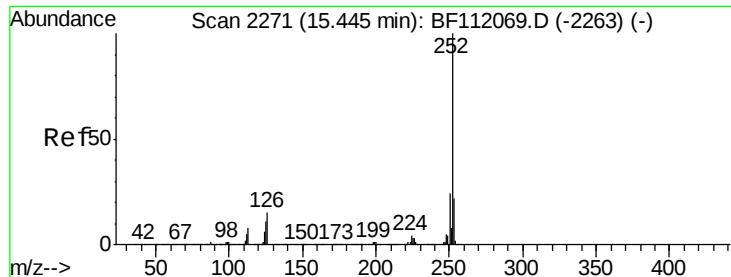
#89
Benzo(k)fluoranthene
Concen: 4.673 ng
RT: 15.06 min Scan# 2205
Delta R.T. -0.04 min
Lab File: BF112154.D
Acq: 21 Jan 2019 13:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.3	18.0	27.0
125	14.8	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





#90
 Benzo(a)pyrene
 Concen: 2.699 ng
 RT: 15.42 min Scan# 2267
 Delta R.T. -0.02 min
 Lab File: BF112154.D
 Acq: 21 Jan 2019 13:10

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.5	26.3
125	14.8	9.0	13.4

