

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\
 Data File : BF112210.D
 Acq On : 24 Jan 2019 15:51
 Operator : JU/SJ
 Sample : K1016-05 2X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 24 16:27:17 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	199044	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	771231	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	367724	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	598680	20.00	ng	-0.01
76) Chrysene-d12	14.03	240	516253	20.00	ng	0.00
87) Perylene-d12	15.50	264	428419	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	468596	42.73	ng	-0.01
7) Phenol-d6	6.49	99	598880	43.65	ng	-0.01
23) Nitrobenzene-d5	7.41	82	360451	32.29	ng	-0.02
42) 2,4,6-Tribromophenol	10.68	330	154459	38.94	ng	-0.01
45) 2-Fluorobiphenyl	9.21	172	741848	29.58	ng	0.00
79) Terphenyl-d14	12.98	244	593427	24.45	ng	0.01

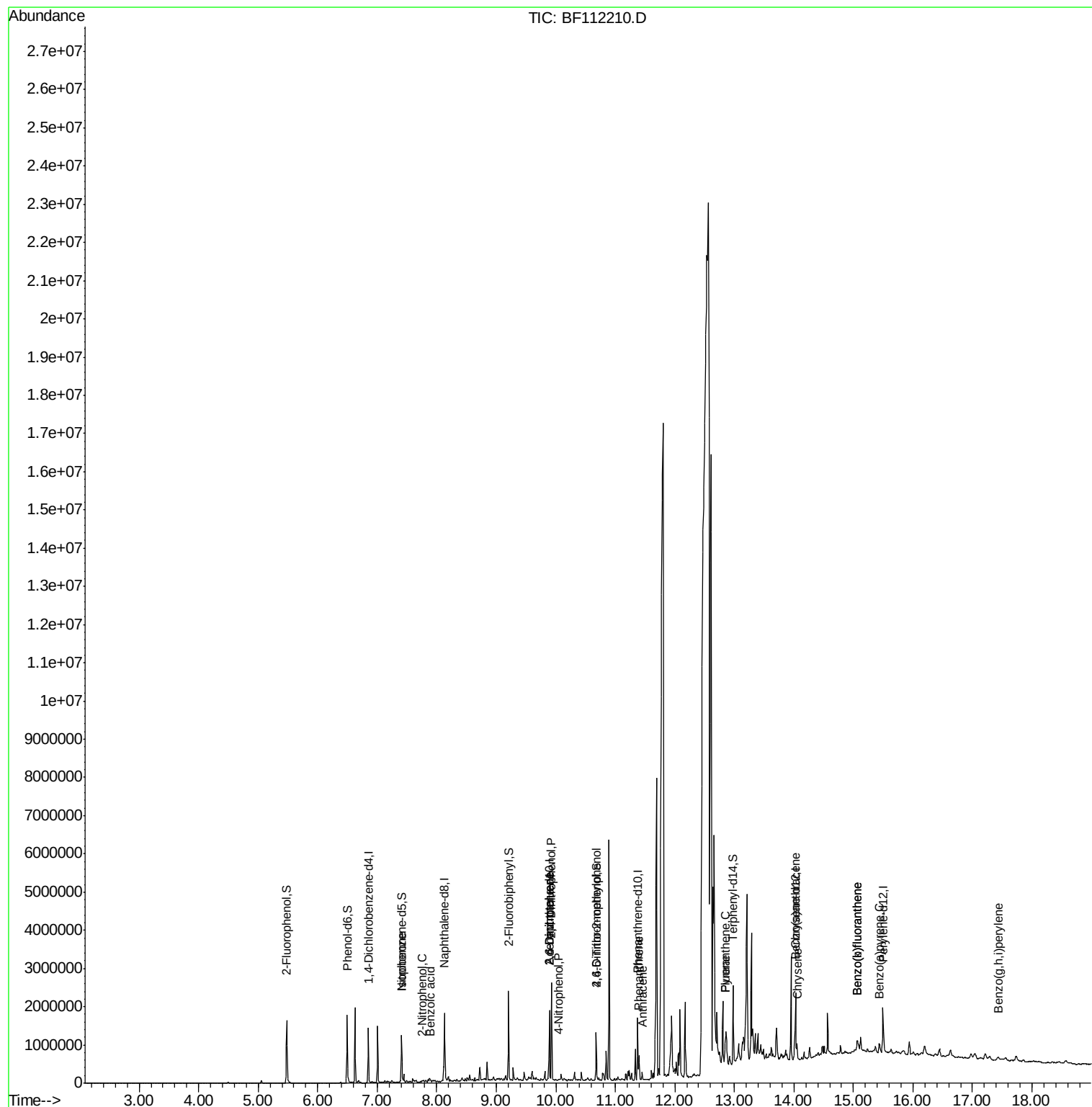
Target Compounds				Qvalue		
9) Benzaldehyde	6.45	77	366	Below Cal	#	1
25) Isophorone	7.41	82	356755	16.546	ng	# 64
26) 2-Nitrophenol	7.75	139	115	5.697	ng	# 1
32) Benzoic acid	7.90	122	113	7.195	ng	# 1
51) 2,6-Dinitrotoluene	9.89	165	48225	9.005	ng	# 34
54) 2,4-Dinitrophenol	9.93	184	4713	12.138	ng	# 1
56) 4-Nitrophenol	10.04	139	502	5.764	ng	# 1
57) 2,4-Dinitrotoluene	9.89	165	48225	10.927	ng	# 32
65) 4,6-Dinitro-2-methylphenol	10.68	198	265	10.153	ng	# 1
71) Phenanthrene	11.40	178	225656	7.490	ng	98
72) Anthracene	11.45	178	82781	2.712	ng	98
75) Fluoranthene	12.85	202	133817	4.207	ng	93
78) Pyrene	12.85	202	133817	3.929	ng	94
81) Benzo(a)anthracene	14.02	228	165069	5.577	ng	98
83) Chrysene	14.05	228	135516	4.838	ng	98
88) Benzo(b)fluoranthene	15.07	252	213513	8.780	ng	# 92
89) Benzo(k)fluoranthene	15.07	252	213513	9.071	ng	# 93
90) Benzo(a)pyrene	15.43	252	105353	4.724	ng	# 90
92) Benzo(a,h,i)perylene	17.43	276	47978	2.459	ng	93

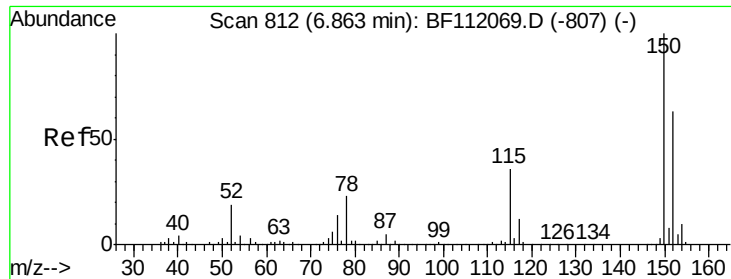
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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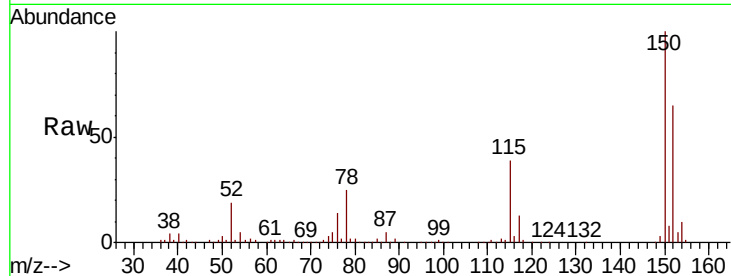


#1

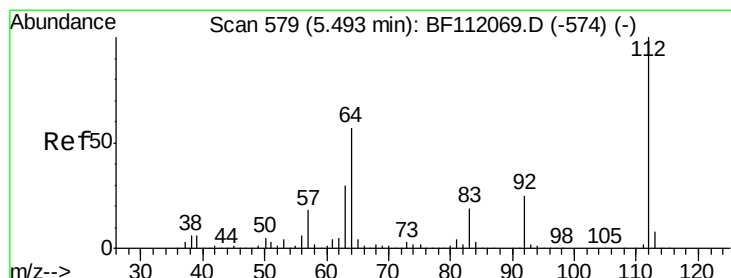
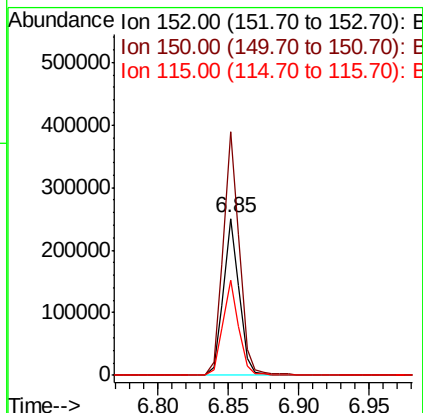
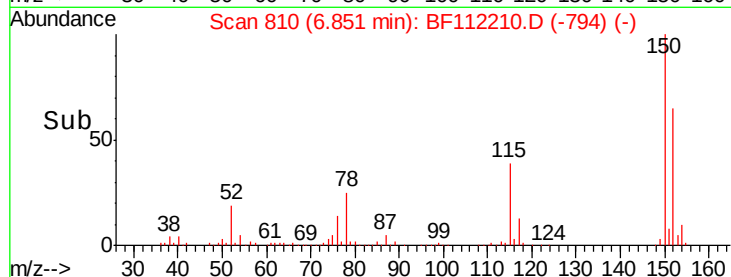
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.01 min
Lab File: BF112210.D
Acq: 24 Jan 2019 15:51

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 199044
Ion Ratio Lower Upper
152 100
150 155.0 127.4 191.0
115 60.3 45.5 68.3



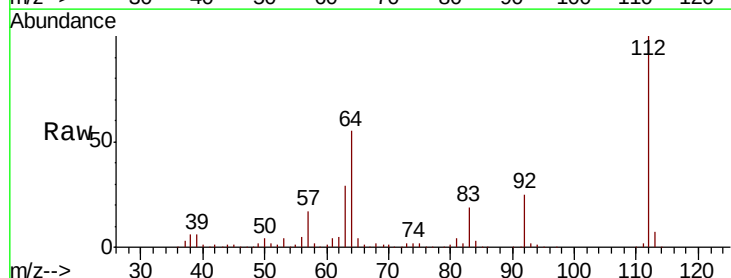
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



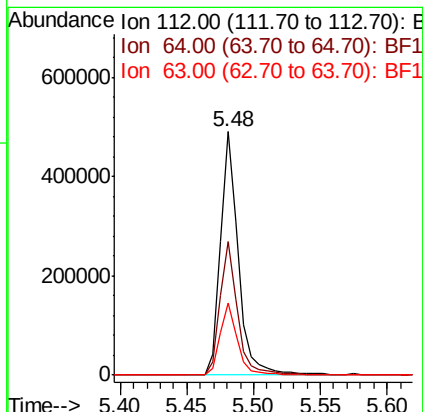
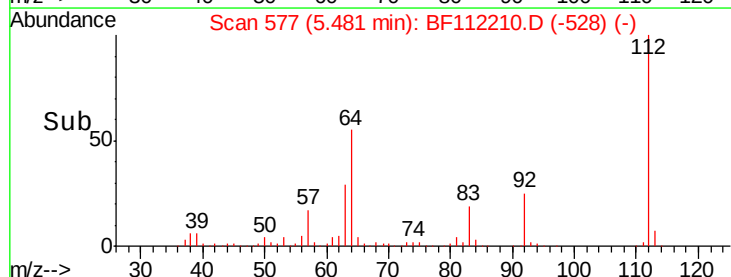
#5

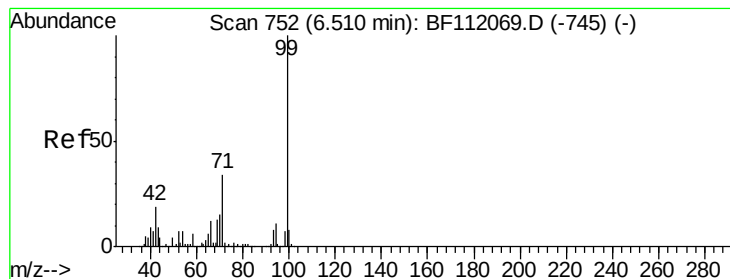
2-Fluorophenol
Concen: 42.730 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.01 min
Lab File: BF112210.D
Acq: 24 Jan 2019 15:51

Tgt Ion:112 Resp: 468596
Ion Ratio Lower Upper
112 100
64 55.1 45.7 68.5
63 29.4 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: 43.648 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF112210.D

Acq: 24 Jan 2019 15:51

Instrument :

BNA_F

ClientSampleId :

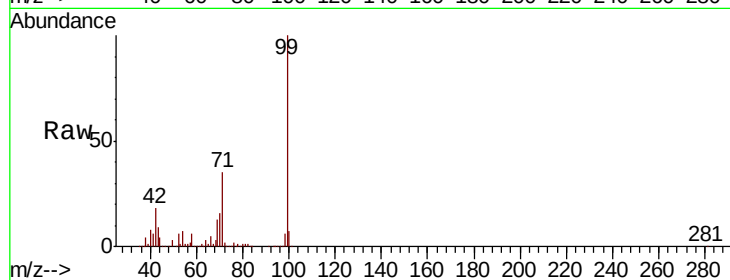
Tot Ion: 99 Resp: 598880

Ion Ratio Lower Upper

99 100

42 18.1 15.1 22.7

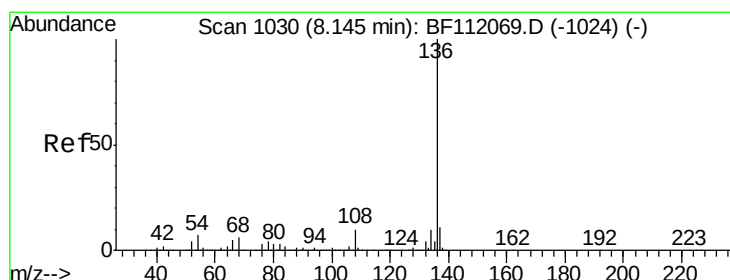
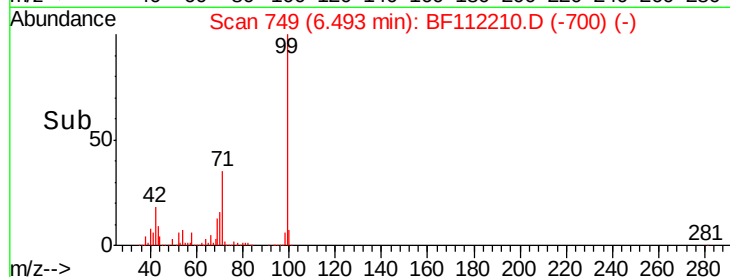
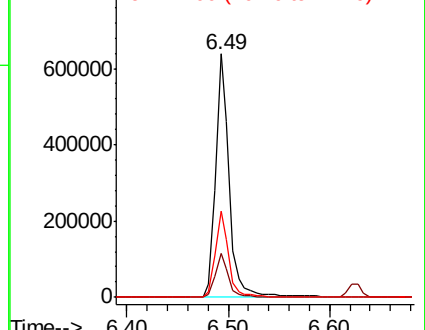
71 35.4 26.9 40.3



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BF112210.D

Acq: 24 Jan 2019 15:51

Tgt Ion: 136 Resp: 771231

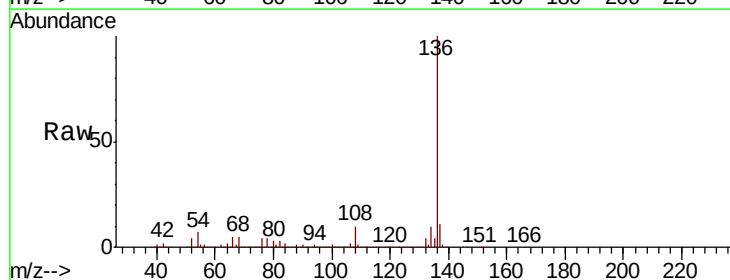
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 6.6 5.9 8.9

68 5.1 5.1 7.7

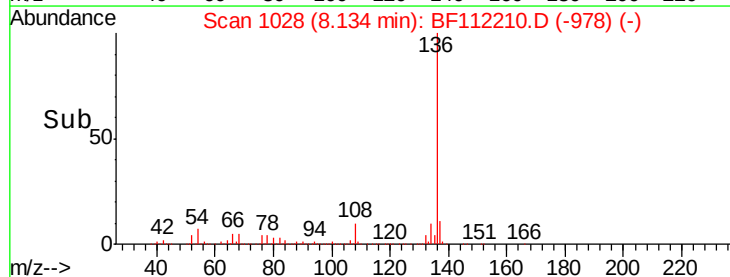
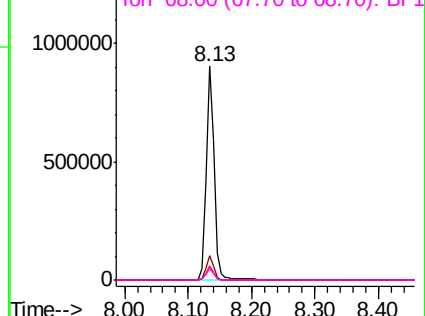


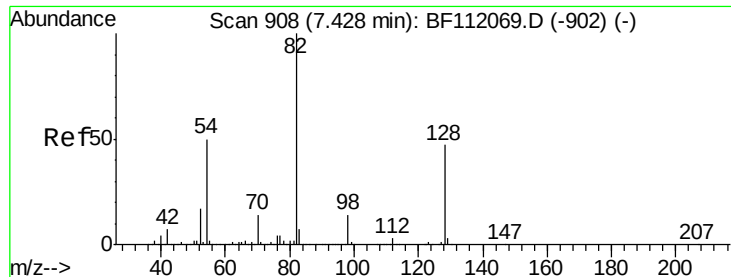
Abundance Ion 136.00 (135.70 to 136.70): E

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

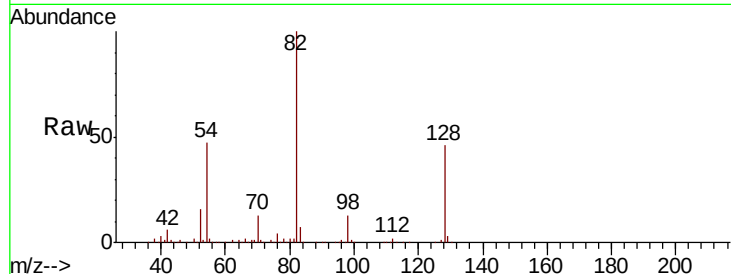




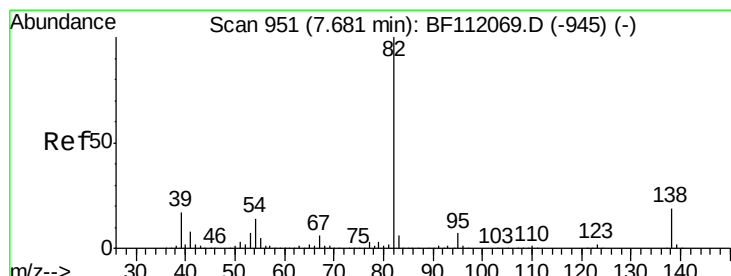
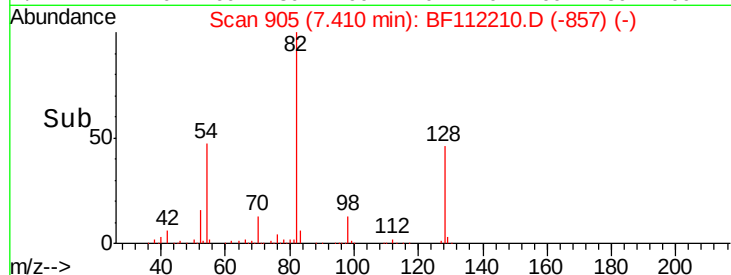
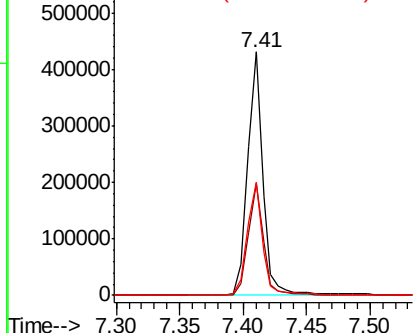
#23
 Nitrobenzene-d5
 Concen: 32.290 ng
 RT: 7.41 min Scan# 905
 Delta R.T. -0.02 min
 Lab File: BF112210.D
 Acq: 24 Jan 2019 15:51

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.8	37.8	56.8
54	46.5	39.7	59.5

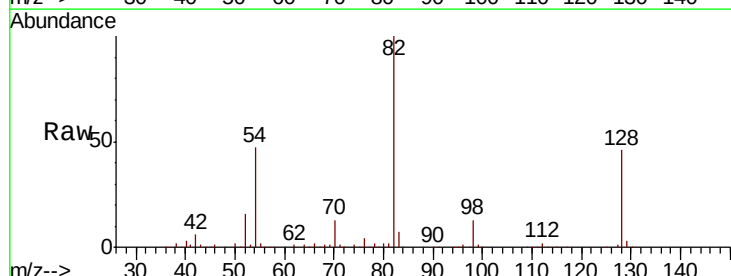


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

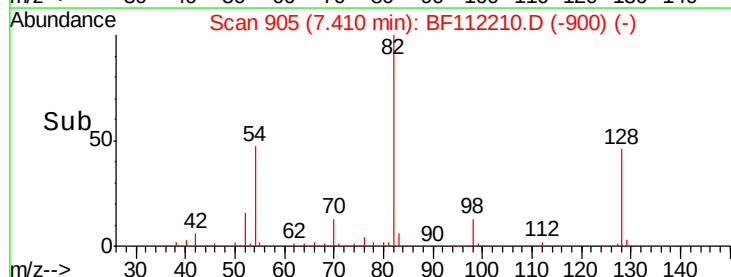
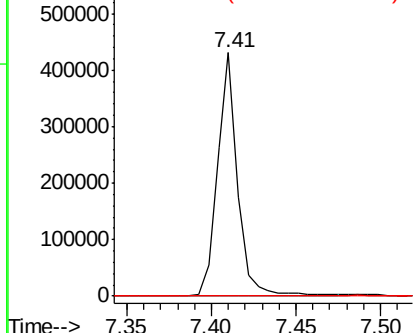


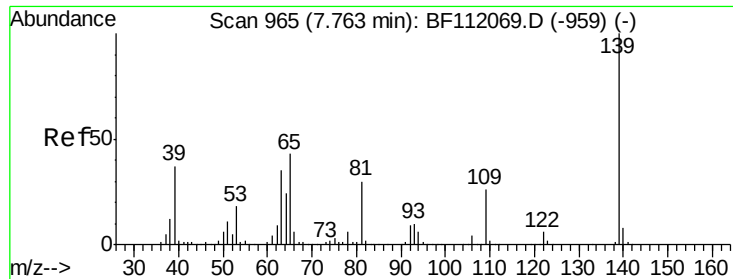
#25
 Isophorone
 Concen: 16.546 ng
 RT: 7.41 min Scan# 905
 Delta R.T. -0.27 min
 Lab File: BF112210.D
 Acq: 24 Jan 2019 15:51

Tgt 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

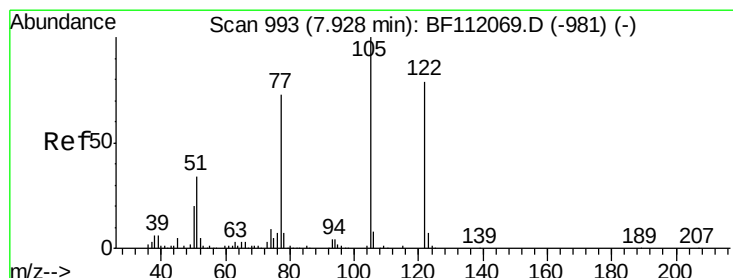
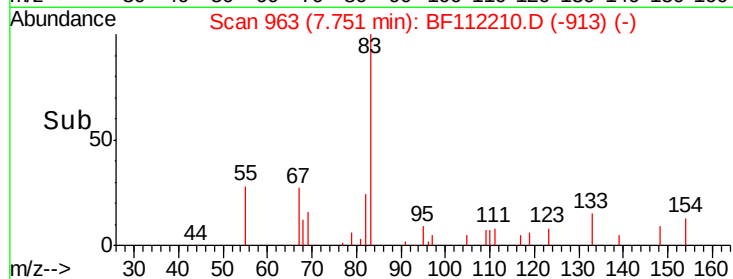
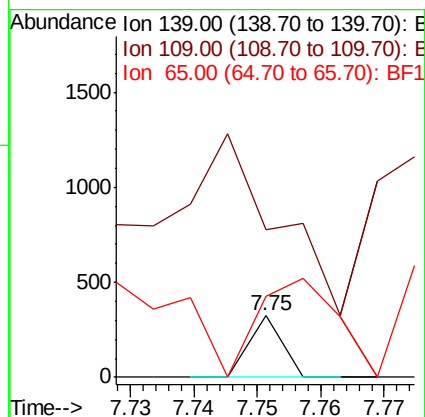
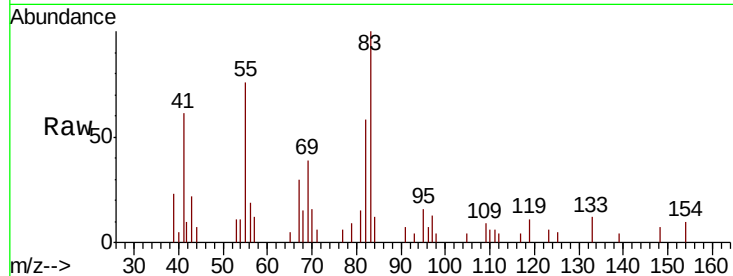




#26
2-Nitrophenol
Concen: 5.697 ng
RT: 7.75 min Scan# 963
Delta R.T. -0.01 min
Lab File: BF112210.D
Acq: 24 Jan 2019 15:51

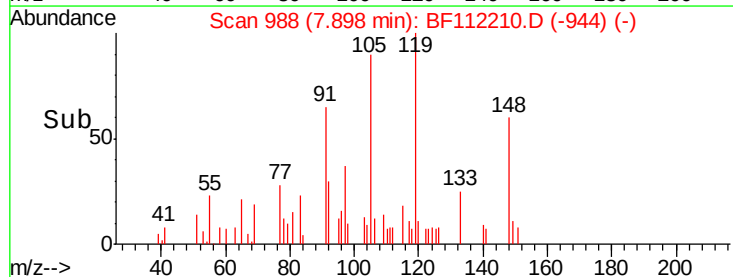
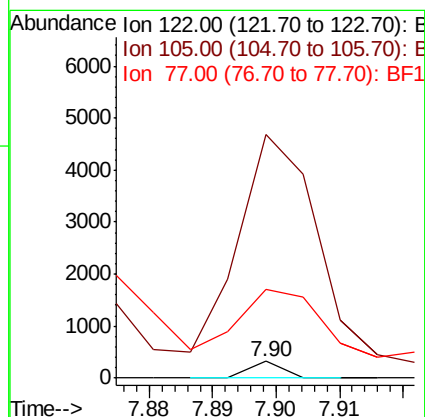
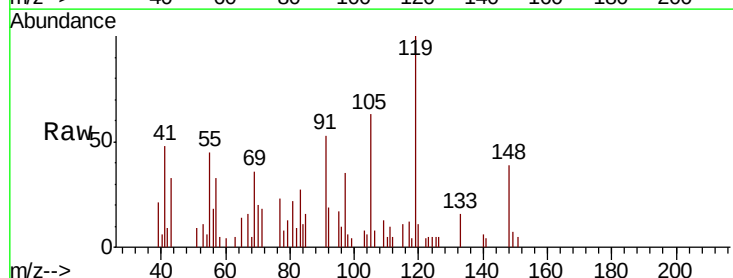
Instrument :
BNA_F
ClientSampled :

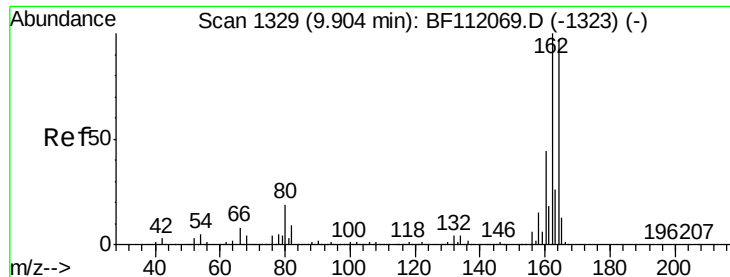
Tot Ion:139 Resp: 115
Ion Ratio Lower Upper
139 100
109 240.0 20.8 31.2#
65 132.0 34.4 51.6#



#32
Benzoic acid
Concen: 7.195 ng
RT: 7.90 min Scan# 988
Delta R.T. -0.04 min
Lab File: BF112210.D
Acq: 24 Jan 2019 15:51

Tgt Ion:122 Resp: 113
Ion Ratio Lower Upper
122 100
105 1458.9 101.2 141.2#
77 534.0 70.4 110.4#

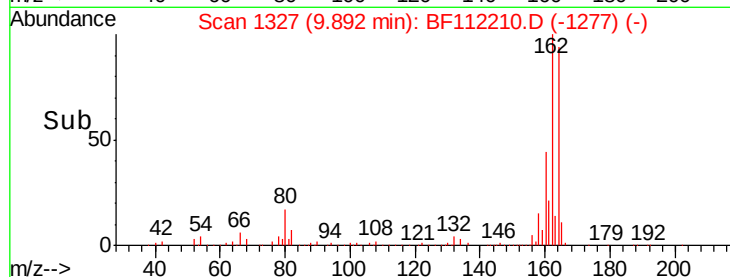
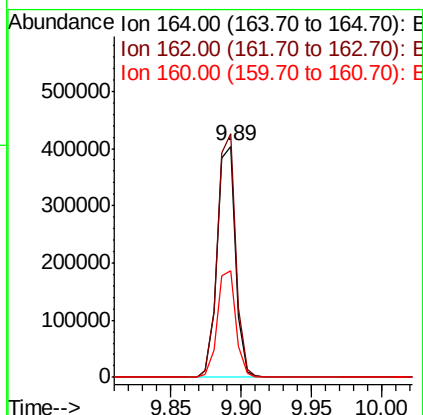
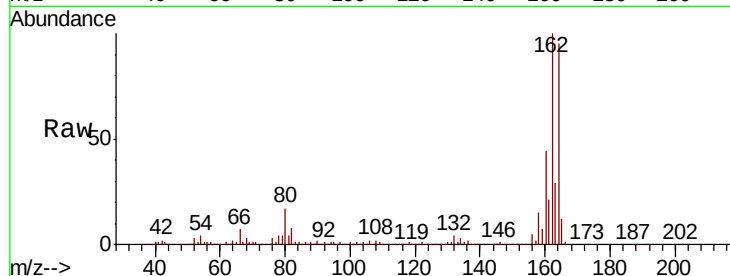




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. -0.01 min
 Lab File: BF112210.D
 Acq: 24 Jan 2019 15:51

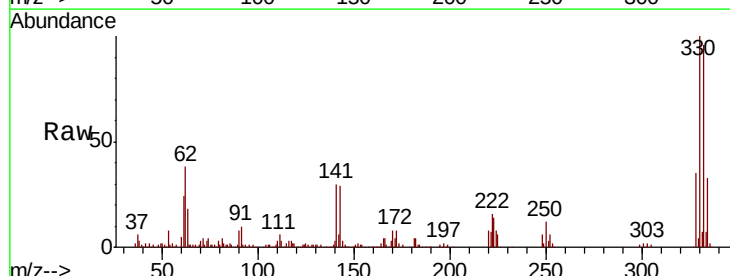
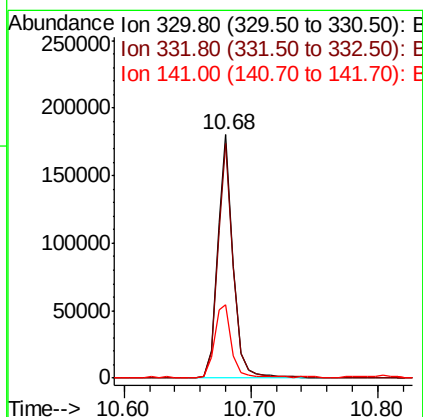
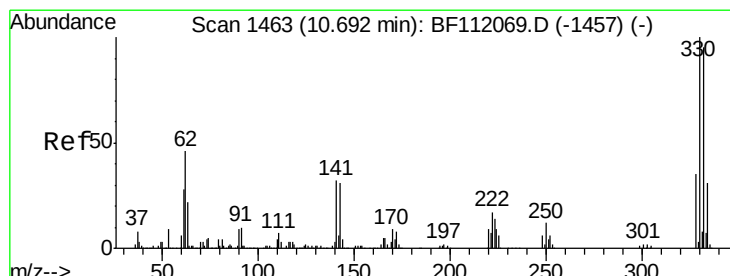
Instrument :
 BNA_F
 ClientSampled :

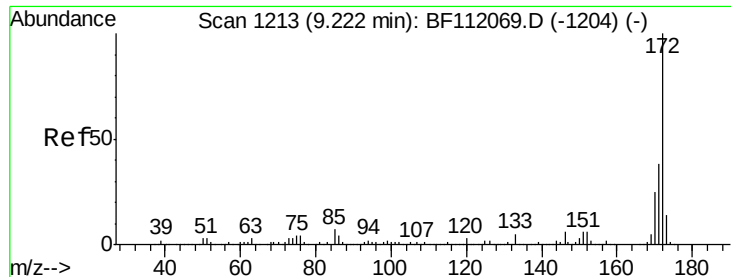
Tot Ion:164 Resp: 367724
 Ion Ratio Lower Upper
 164 100
 162 105.3 82.2 123.4
 160 46.1 36.2 54.4



#42
 2,4,6-Tribromophenol
 Concen: 38.937 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF112210.D
 Acq: 24 Jan 2019 15:51

Tgt Ion:330 Resp: 154459
 Ion Ratio Lower Upper
 330 100
 332 96.7 76.6 114.8
 141 33.3 24.3 36.5

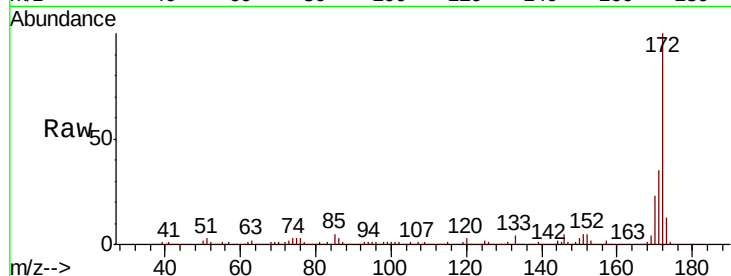




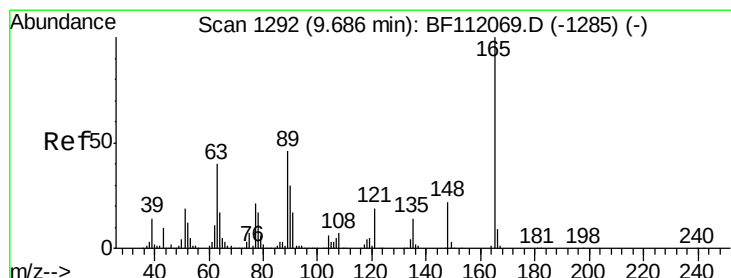
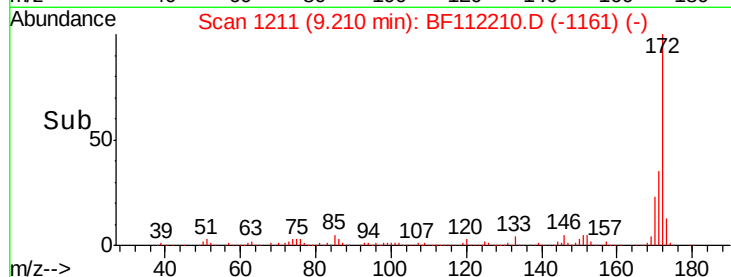
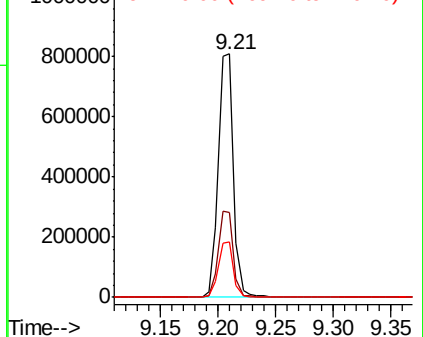
#45
 2-Fluorobiphenyl
 Concen: 29.577 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. -0.01 min
 Lab File: BF112210.D
 Acq: 24 Jan 2019 15:51

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.8	30.5	45.7
170	23.0	20.2	30.4

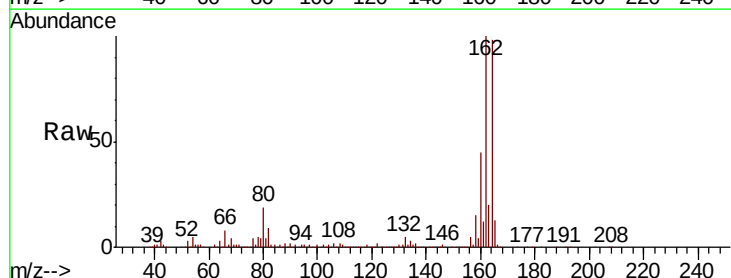


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

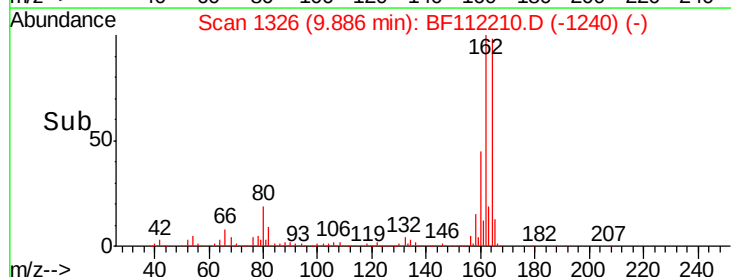
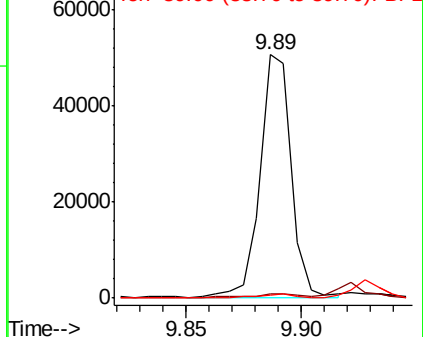


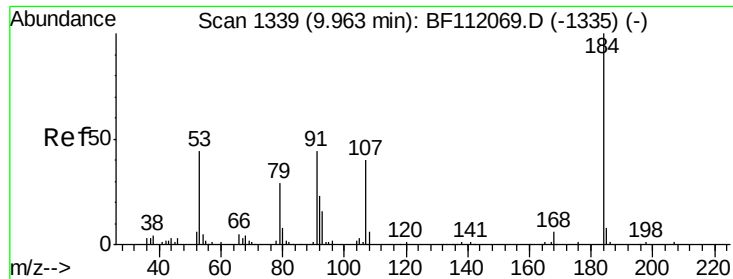
#51
 2,6-Dinitrotoluene
 Concen: 9.005 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. 0.21 min
 Lab File: BF112210.D
 Acq: 24 Jan 2019 15:51

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.7	33.8	50.8#
89	1.4	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

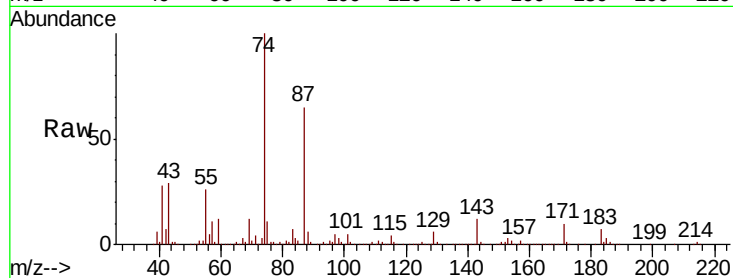




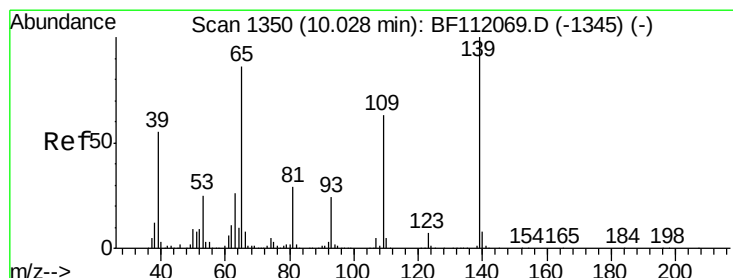
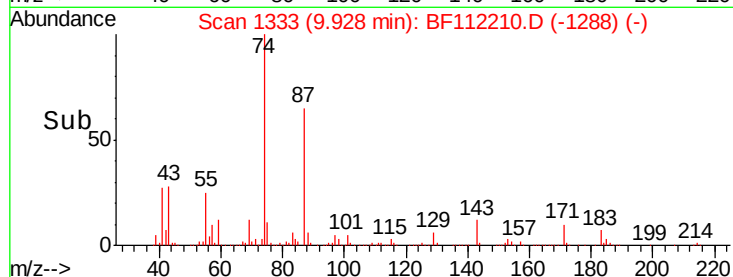
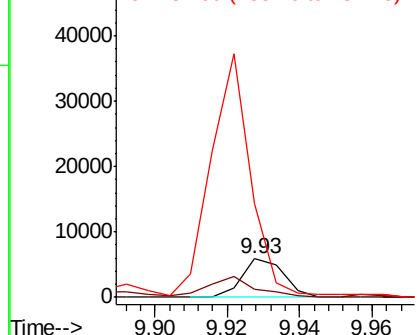
#54
2,4-Dinitrophenol
Concen: 12.138 ng
RT: 9.93 min Scan# 1333
Delta R.T. -0.04 min
Lab File: BF112210.D
Acq: 24 Jan 2019 15:51

Instrument :
BNA_F
ClientSampled :

Tot Ion:184 Resp: 4713
Ion Ratio Lower Upper
184 100
63 21.6 47.1 70.7#
154 245.2 48.9 73.3#

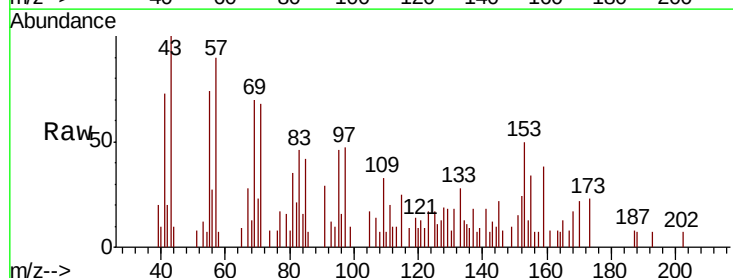


Abundance Ion 184.00 (183.70 to 184.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 154.00 (153.70 to 154.70): E

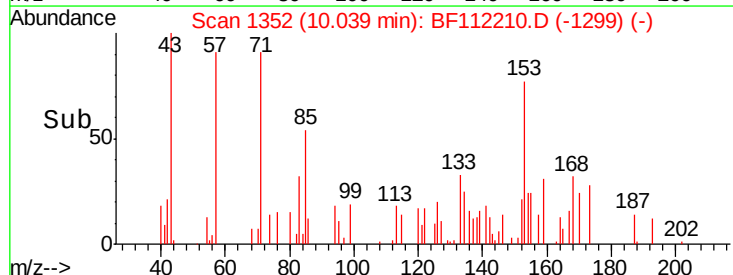
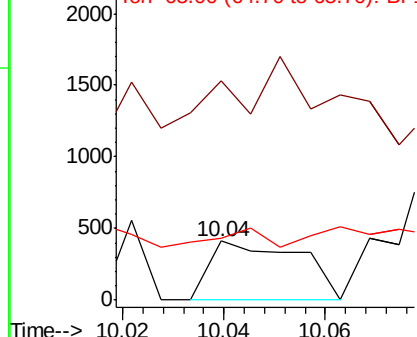


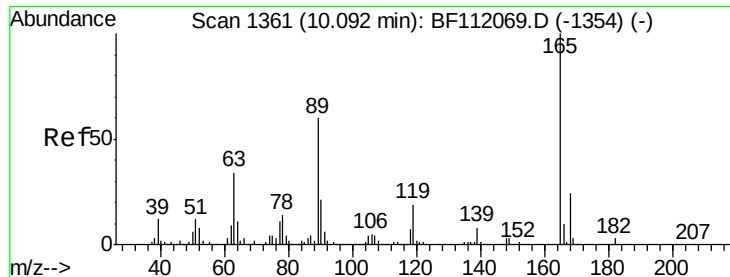
#56
4-Nitrophenol
Concen: 5.764 ng
RT: 10.04 min Scan# 1352
Delta R.T. 0.01 min
Lab File: BF112210.D
Acq: 24 Jan 2019 15:51

Tgt Ion:139 Resp: 502
Ion Ratio Lower Upper
139 100
109 373.9 42.8 82.8#
65 106.1 66.1 106.1



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

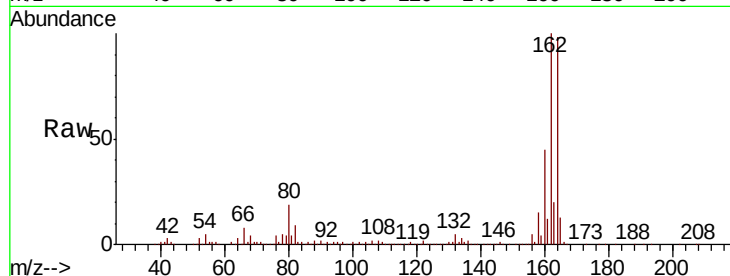




#57
2,4-Dinitrotoluene
Concen: 10.927 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.20 min
Lab File: BF112210.D
Acq: 24 Jan 2019 15:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.7	27.9	41.9#
89	1.4	47.9	71.9#
182	0.7	2.2	3.4#



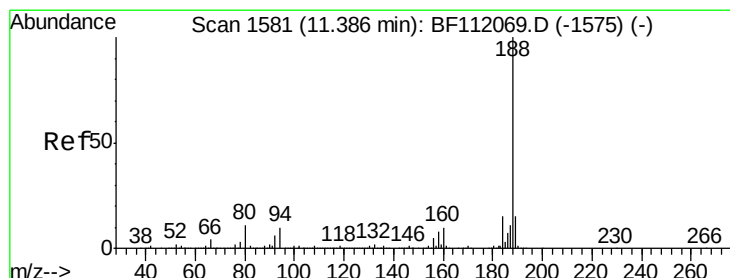
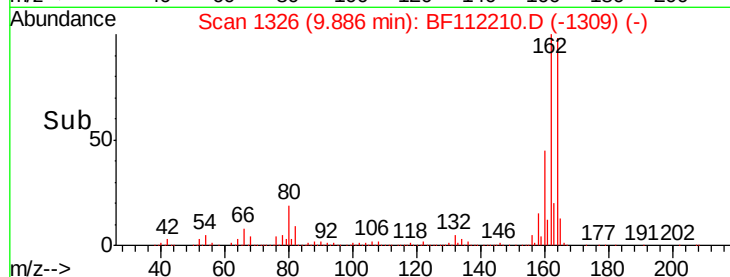
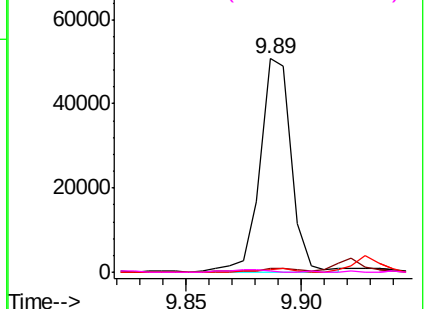
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

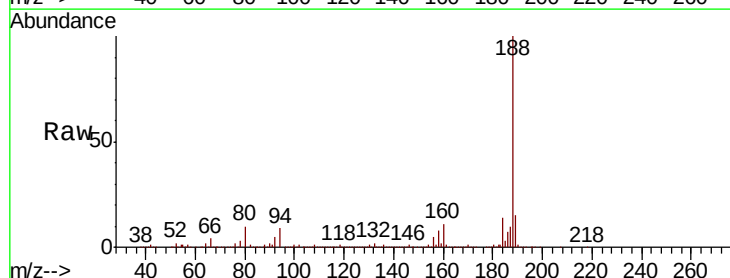
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.37 min Scan# 1579
Delta R.T. -0.01 min
Lab File: BF112210.D
Acq: 24 Jan 2019 15:51

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.3	8.2	12.2
80	10.0	8.9	13.3

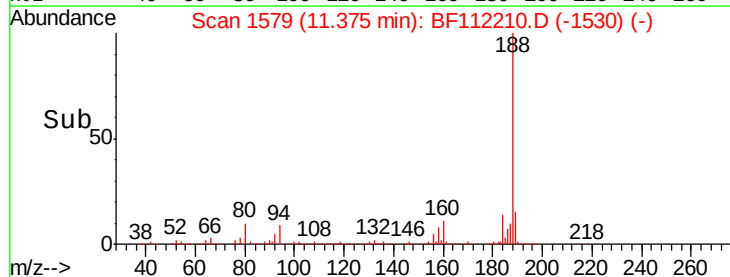
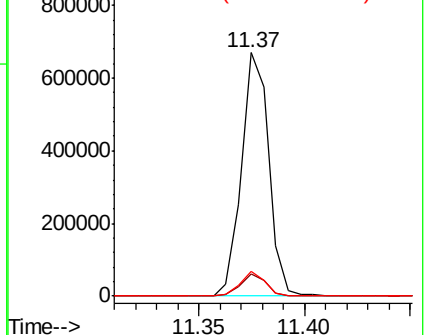


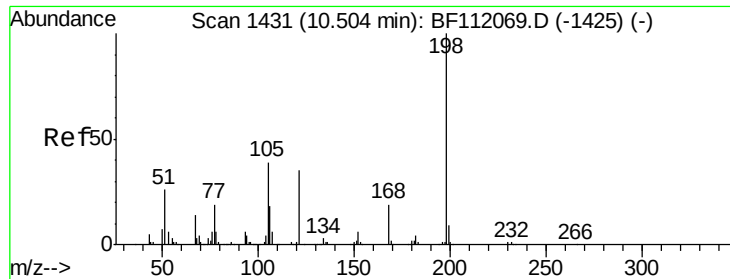
Abundance

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

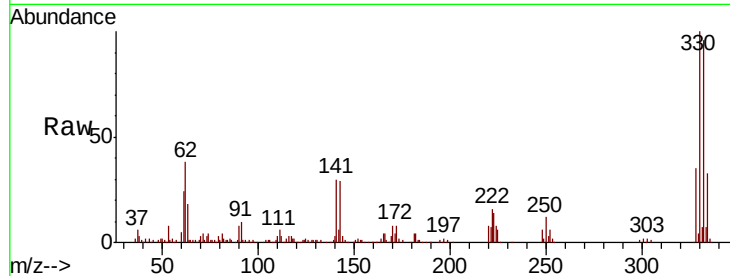




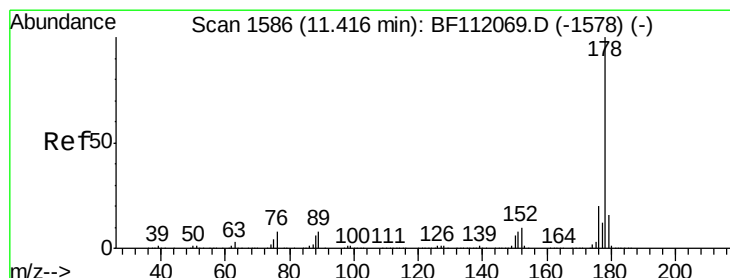
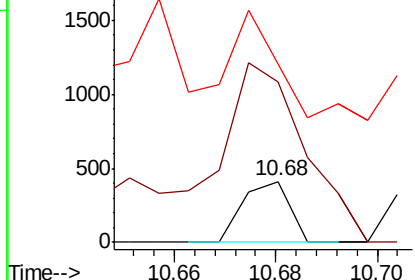
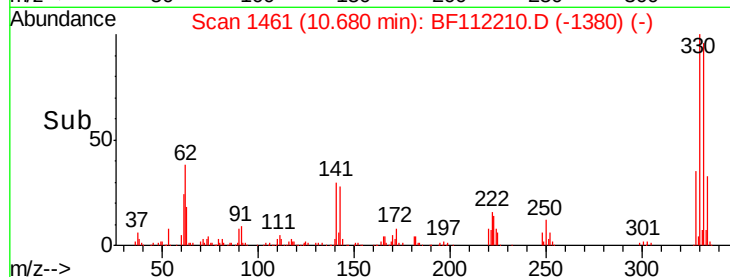
#65
 4,6-Dinitro-2-methylphenol
 Concen: 10.153 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. 0.18 min
 Lab File: BF112210.D
 Acq: 24 Jan 2019 15:51

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:198 Resp: 265
 Ion Ratio Lower Upper
 198 100
 51 265.1 17.2 57.2#
 105 294.6 21.9 61.9#

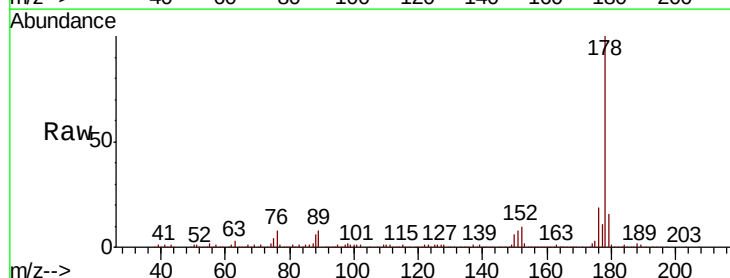


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

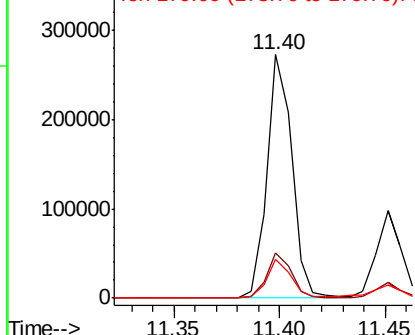
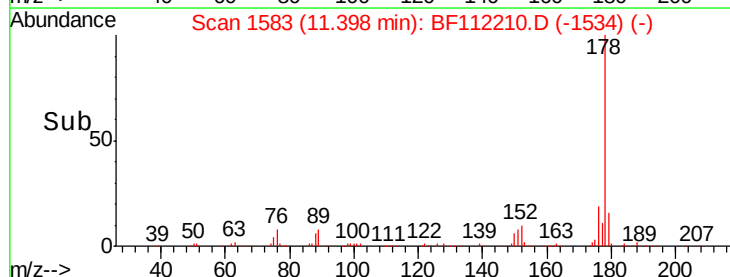


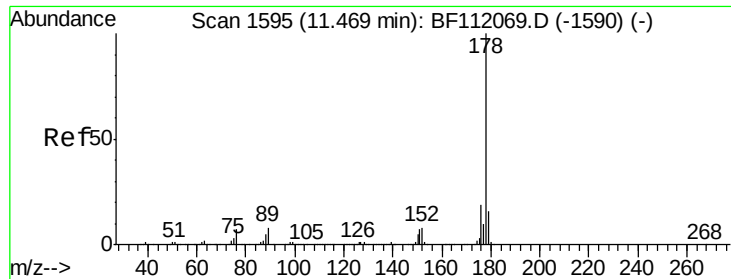
#71
 Phenanthrene
 Concen: 7.490 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.01 min
 Lab File: BF112210.D
 Acq: 24 Jan 2019 15:51

Tgt Ion:178 Resp: 225656
 Ion Ratio Lower Upper
 178 100
 176 18.8 16.3 24.5
 179 15.8 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





#72

Anthracene

Concen: 2.712 ng

RT: 11.45 min Scan# 1592

Delta R.T. -0.01 min

Lab File: BF112210.D

Acq: 24 Jan 2019 15:51

Instrument :

BNA_F

ClientSampleId :

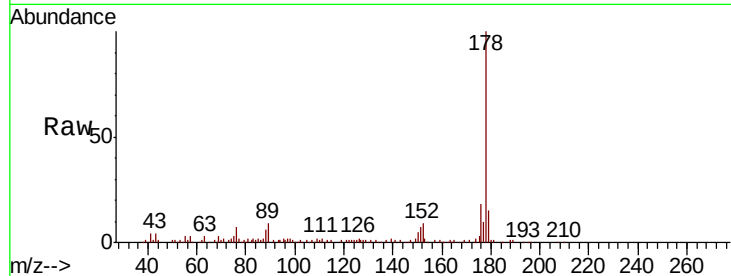
Tot Ion:178 Resp: 82781

Ion Ratio Lower Upper

178 100

176 18.5 15.5 23.3

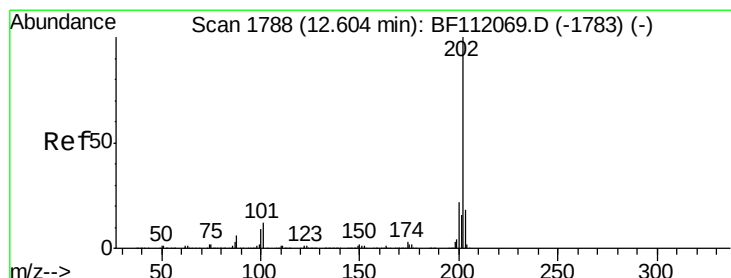
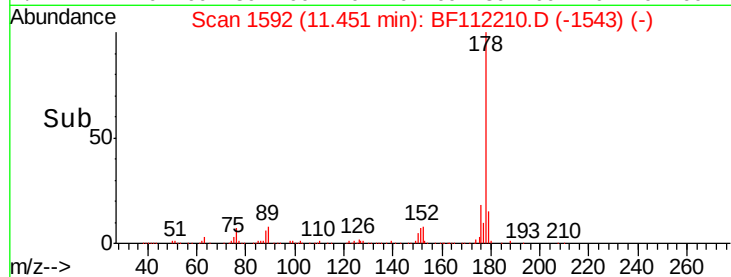
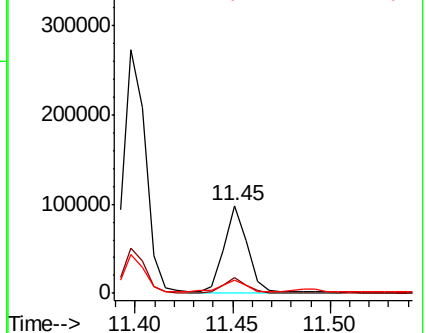
179 15.5 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 4.207 ng

RT: 12.85 min Scan# 1829

Delta R.T. 0.25 min

Lab File: BF112210.D

Acq: 24 Jan 2019 15:51

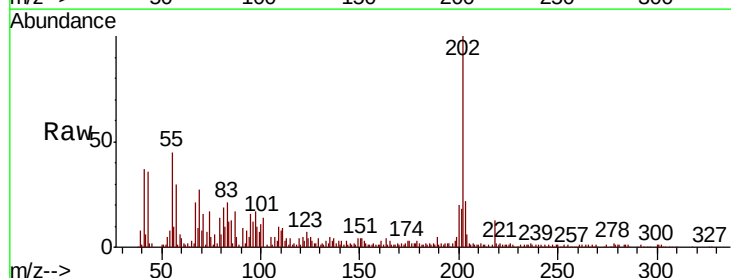
Tgt Ion:202 Resp: 133817

Ion Ratio Lower Upper

202 100

101 13.8 0.0 31.8

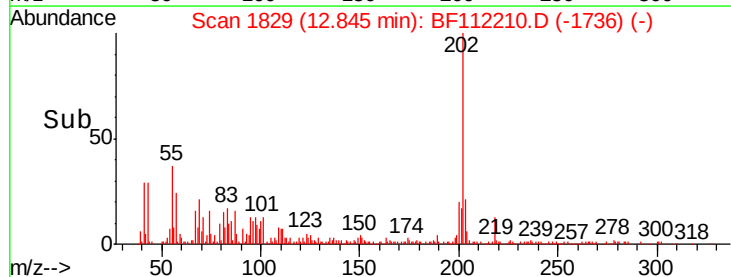
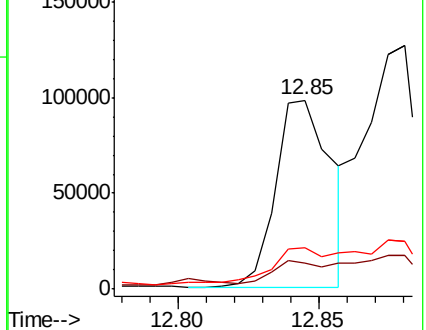
203 21.9 0.0 38.4

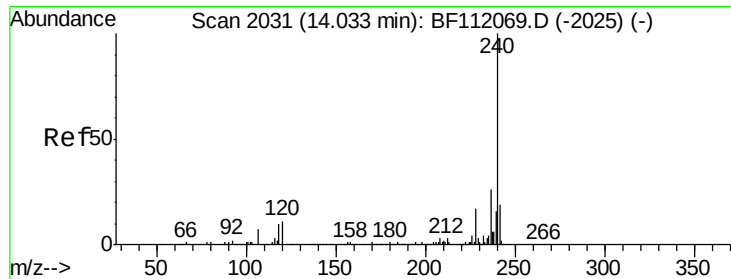


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.03 min Scan# 2030

Delta R.T. 0.00 min

Lab File: BF112210.D

Acq: 24 Jan 2019 15:51

Instrument :

BNA_F

ClientSampleId :

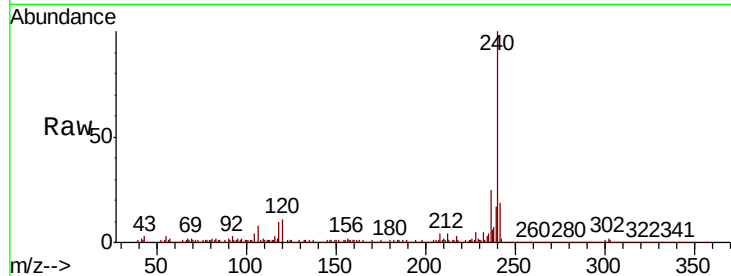
Tot Ion:240 Resp: 516253

Ion Ratio Lower Upper

240 100

120 11.2 9.0 13.6

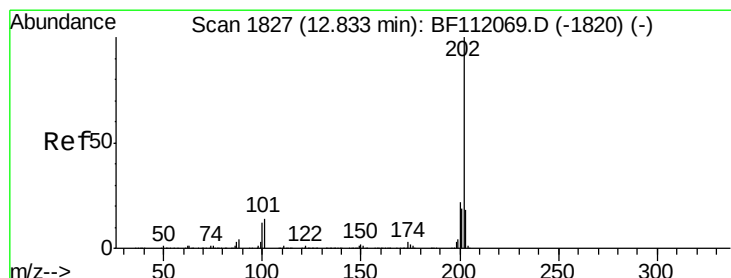
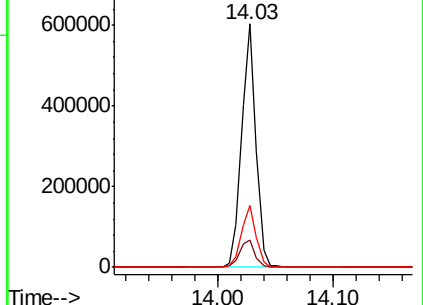
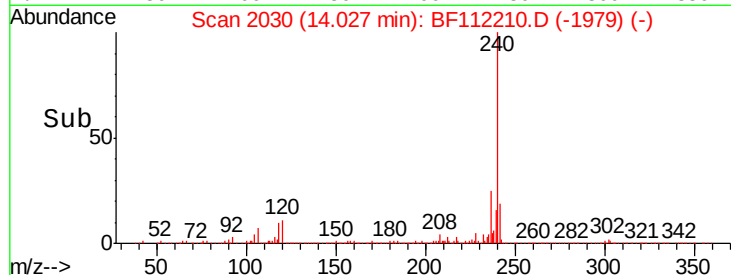
236 25.3 20.7 31.1



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: 3.929 ng

RT: 12.85 min Scan# 1829

Delta R.T. 0.02 min

Lab File: BF112210.D

Acq: 24 Jan 2019 15:51

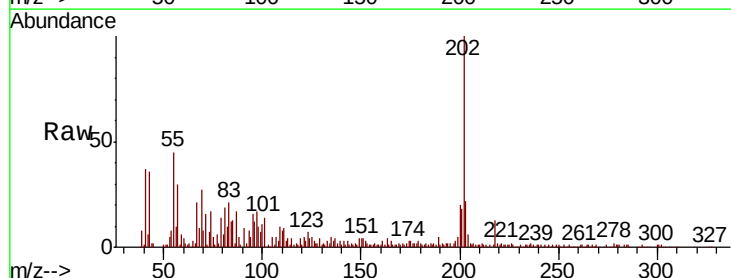
Tgt Ion:202 Resp: 133817

Ion Ratio Lower Upper

202 100

200 20.3 17.7 26.5

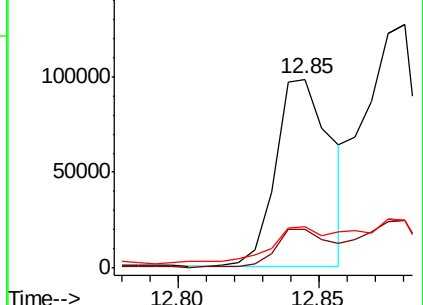
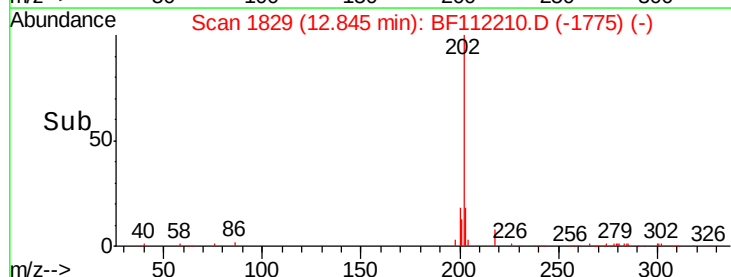
203 21.9 14.6 22.0

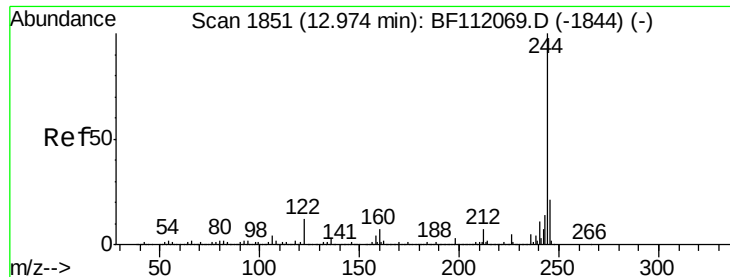


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 24.454 ng

RT: 12.98 min Scan# 1852

Delta R.T. 0.01 min

Lab File: BF112210.D

Acq: 24 Jan 2019 15:51

Instrument :

BNA_F

ClientSampleId :

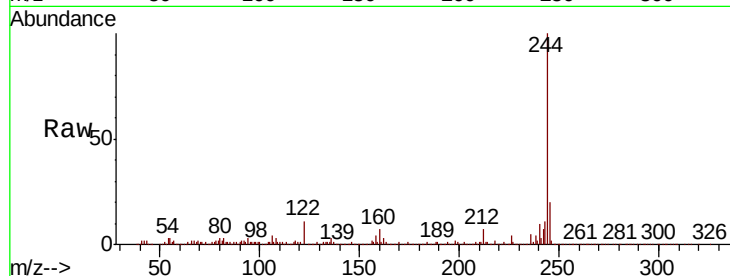
Tot Ion:244 Resp: 593427

Ion Ratio Lower Upper

244 100

212 6.8 5.9 8.9

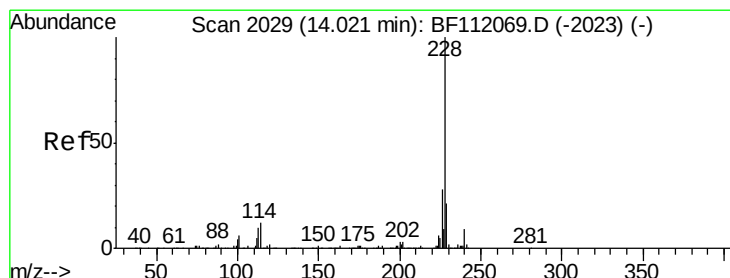
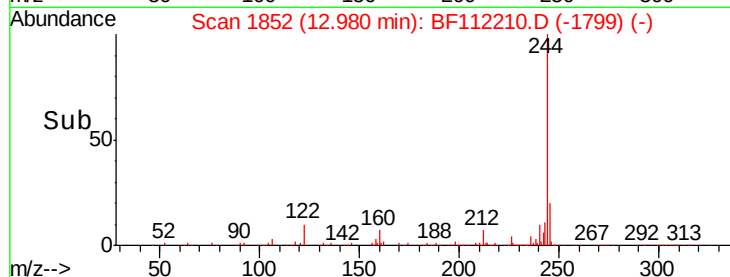
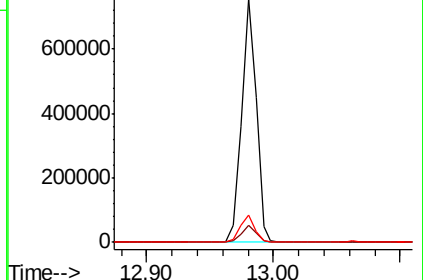
122 11.3 9.8 14.6



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: 5.577 ng

RT: 14.02 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BF112210.D

Acq: 24 Jan 2019 15:51

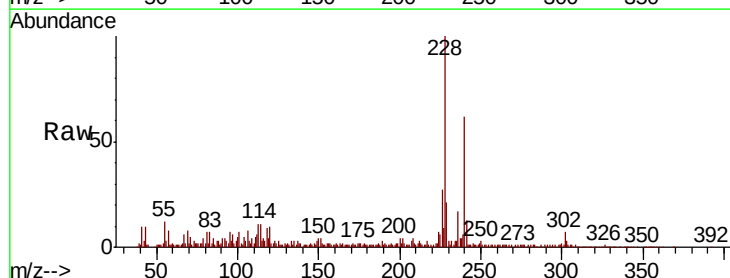
Tgt Ion:228 Resp: 165069

Ion Ratio Lower Upper

228 100

226 27.2 22.6 34.0

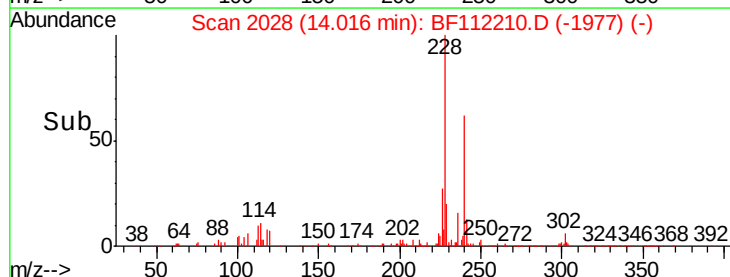
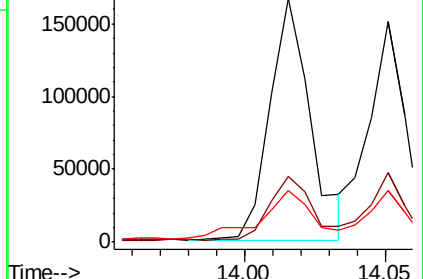
229 21.1 16.5 24.7

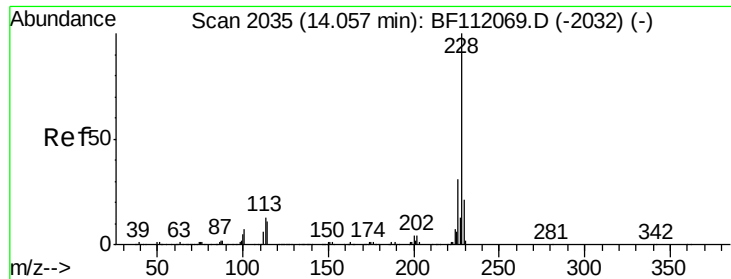


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

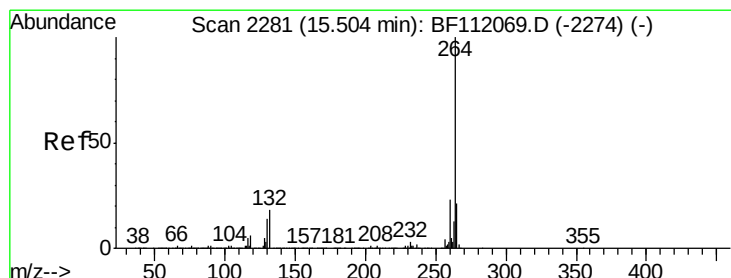
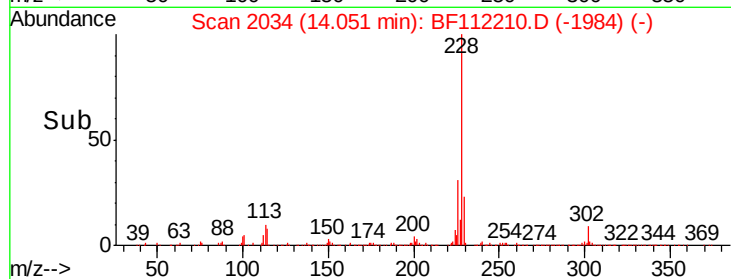
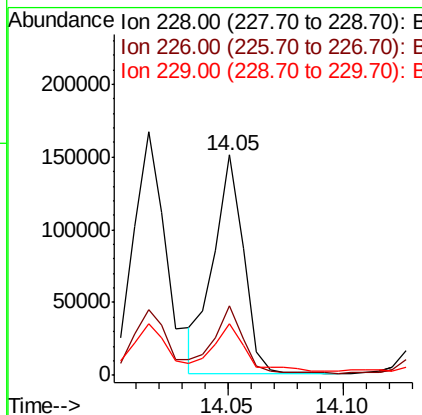
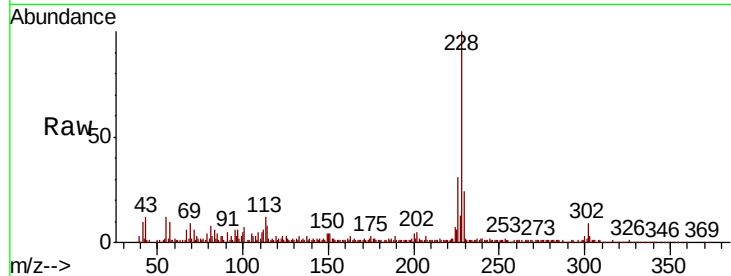




#83
Chrysene
Concen: 4.838 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF112210.D
Acq: 24 Jan 2019 15:51

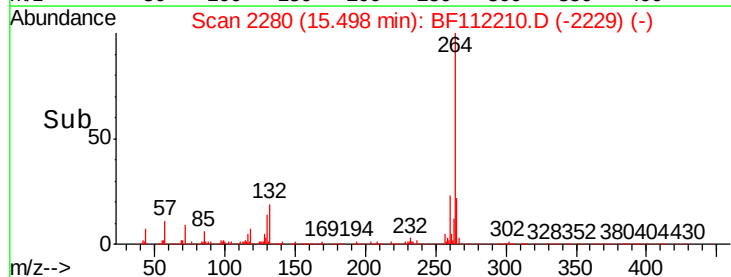
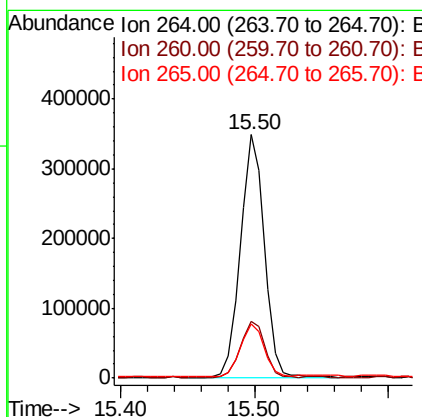
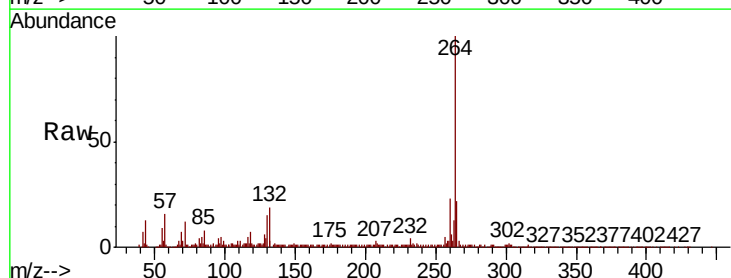
Instrument :
BNA_F
ClientSampleId :

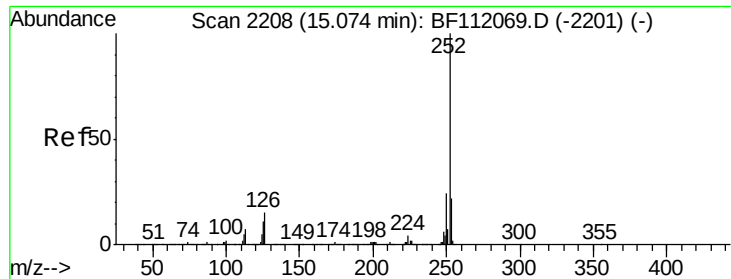
Tot Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.0	37.6
229	23.5	16.6	24.8



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.00 min
Lab File: BF112210.D
Acq: 24 Jan 2019 15:51

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.2	27.2
265	22.4	17.0	25.4

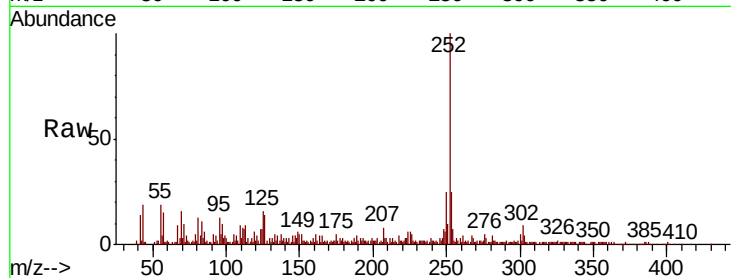




#88
Benzo(b)fluoranthene
Concen: 8.780 ng
RT: 15.07 min Scan# 2207
Delta R.T. 0.00 min
Lab File: BF112210.D
Acq: 24 Jan 2019 15:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	18.0	27.0
125	16.0	8.7	13.1#

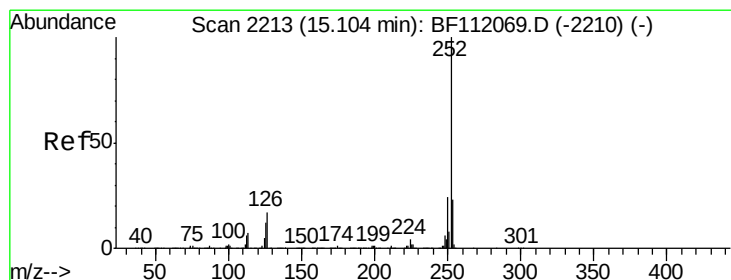
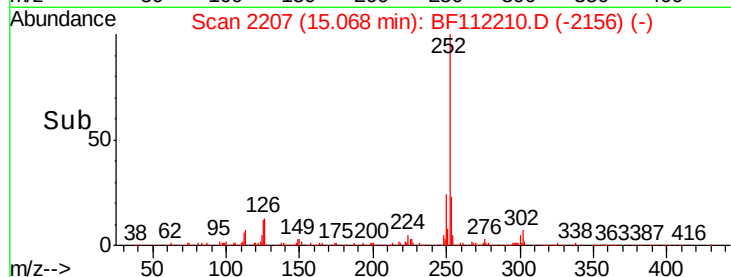
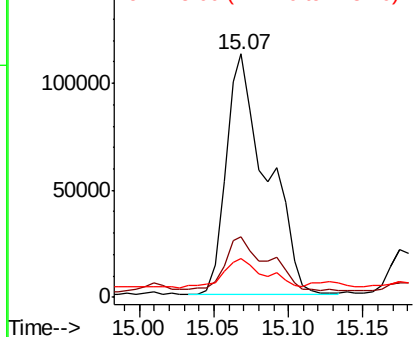


Abundance

Ion 252.00 (251.70 to 252.70): E

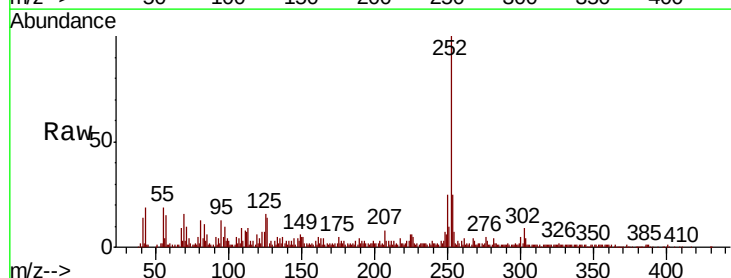
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(k)fluoranthene
Concen: 9.071 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.03 min
Lab File: BF112210.D
Acq: 24 Jan 2019 15:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	18.0	27.0
125	16.0	9.1	13.7#

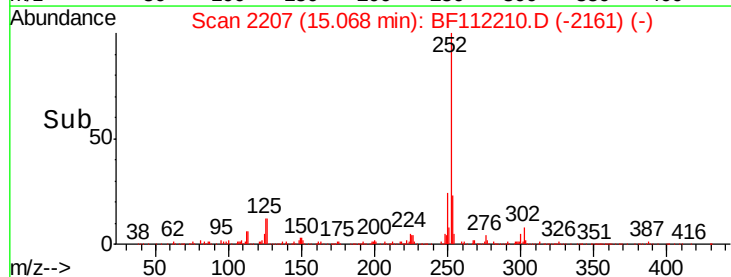
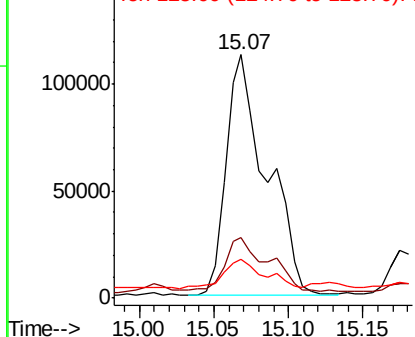


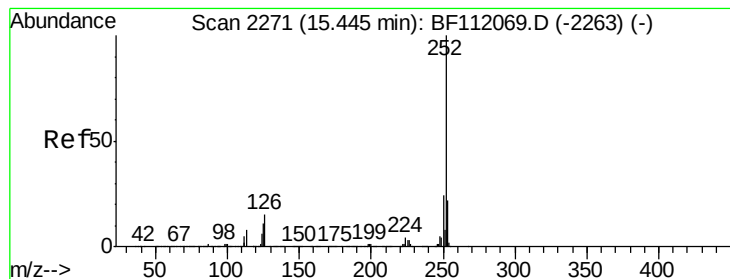
Abundance

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: 4.724 ng

RT: 15.43 min Scan# 2269

Delta R.T. -0.01 min

Lab File: BF112210.D

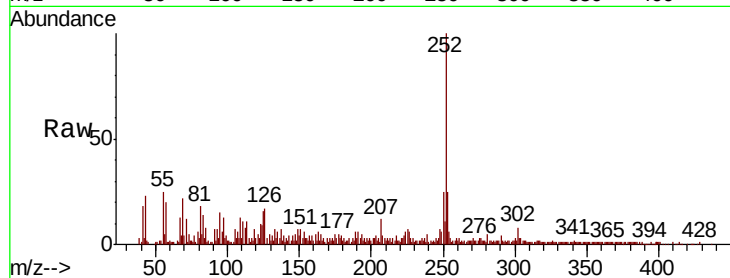
Acq: 24 Jan 2019 15:51

Instrument :

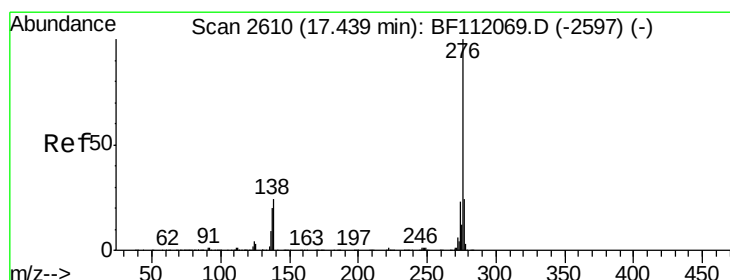
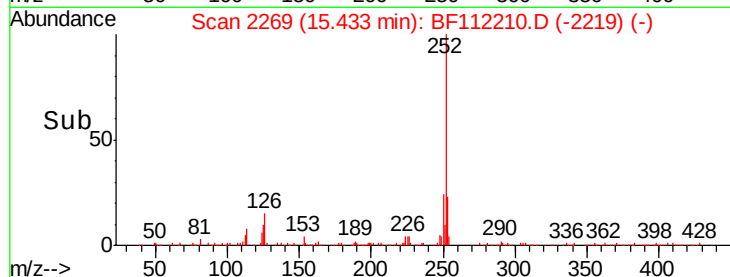
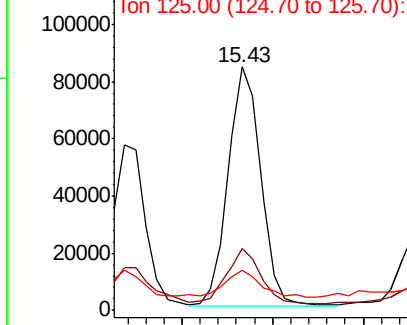
BNA_F

ClientSampleId :

Tot Ion:	252	Resp:	105353
Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.5	26.3
125	16.4	9.0	13.4



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



#92

Benzo(g,h,i)perylene

Concen: 2.459 ng

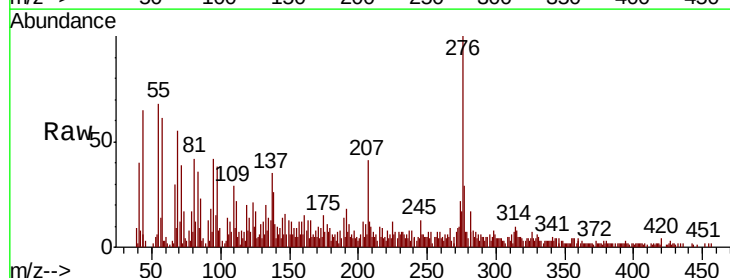
RT: 17.43 min Scan# 2608

Delta R.T. 0.00 min

Lab File: BF112210.D

Acq: 24 Jan 2019 15:51

Tgt Ion:	276	Resp:	47978
Ion	Ratio	Lower	Upper
276	100		
277	29.0	19.4	29.0
138	26.0	19.1	28.7



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

