

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091019\
 Data File : BF116940.D
 Acq On : 10 Sep 2019 23:48
 Operator : HP/JU
 Sample : K4689-02DL 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 11 01:03:52 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 10 17:49:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	73768	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	296331	20.00	ng	0.00
39) Acenaphthene-d10	9.87	164	157983	20.00	ng	0.00
64) Phenanthrene-d10	11.35	188	243431	20.00	ng	0.00
76) Chrysene-d12	13.98	240	152301	20.00	ng	0.00
87) Perylene-d12	15.43	264	169947	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.45	112	53521	11.75	ng	0.00
7) Phenol-d6	6.46	99	46152	7.72	ng	-0.01
23) Nitrobenzene-d5	7.39	82	96649	18.62	ng	0.00
42) 2,4,6-Tribromophenol	10.65	330	31593	29.91	ng	0.00
45) 2-Fluorobiphenyl	9.19	172	185698	19.83	ng	0.00
79) Terphenyl-d14	12.93	244	152933	18.58	ng	0.00

Target Compounds

						Qvalue
18) Hexachloroethane	7.37	117	21757	10.012	ng	# 1
19) n-Nitroso-di-n-propylamine	7.39	70	12680	3.221	ng	# 70
27) 2,4-Dimethylphenol	7.77	122	17566	4.431	ng	95
31) Naphthalene	8.16	128	4619686	327.850	ng	95
32) Benzoic acid	7.90	122	51479	23.000	ng	# 14
33) 4-Chloroaniline	8.16	127	663766	103.485	ng	# 32
37) 2-Methylnaphthalene	8.83	142	1132593	120.805	ng	98
38) 1-Methylnaphthalene	8.94	142	1434008	162.029	ng	98
46) 1,1'-Biphenyl	9.29	154	270720	22.583	ng	97
48) 2-Nitroaniline	9.43	65	8291	3.020	ng	# 22
51) 2,6-Dinitrotoluene	9.56	165	4324	2.078	ng	# 1
52) Acenaphthene	9.90	154	412973	46.829	ng	99
54) 2,4-Dinitrophenol	10.02	184	747	9.938	ng	# 1
55) Dibenzofuran	10.07	168	389028	31.292	ng	97
56) 4-Nitrophenol	9.90	139	5093	2.848	ng	# 50
58) Fluorene	10.42	166	220300	23.256	ng	99
65) 4,6-Dinitro-2-methylphenol	10.48	198	389	7.818	ng	# 1
71) Phenanthrene	11.37	178	240414	17.742	ng	100
72) Anthracene	11.42	178	36609	2.684	ng	99
73) Carbazole	11.58	167	63970	4.923	ng	98
75) Fluoranthene	12.56	202	27353	2.054	ng	97

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

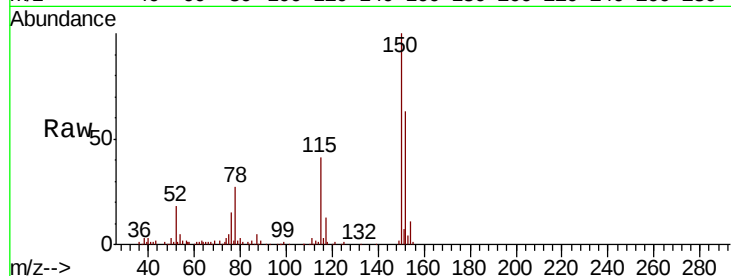


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 807
Delta R.T. 0.00 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.2	124.4	186.6
115	65.9	49.9	74.9

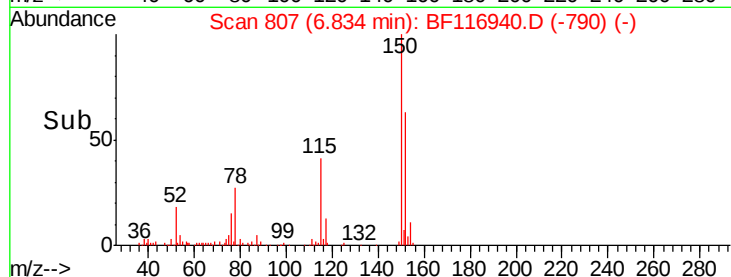
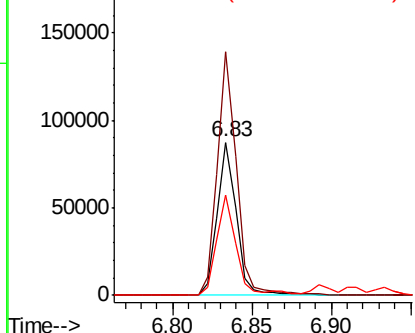


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

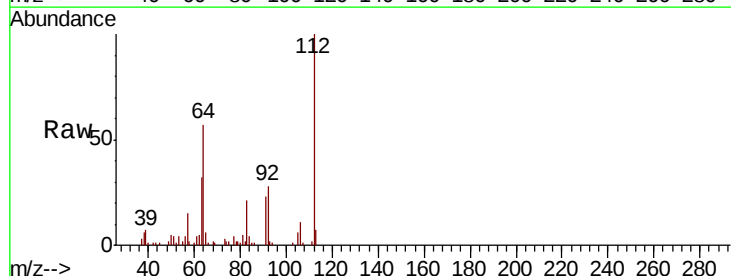
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 11.754 ng
RT: 5.45 min Scan# 571
Delta R.T. -0.01 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.1	47.1	70.7
63	31.6	24.9	37.3

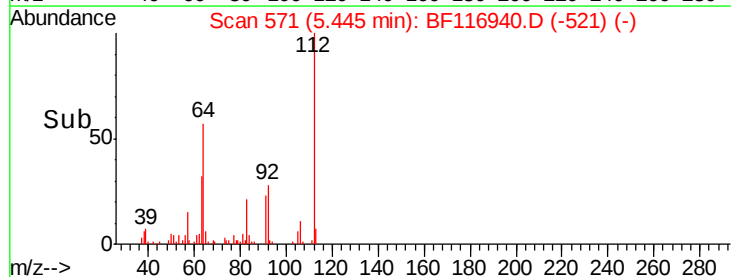
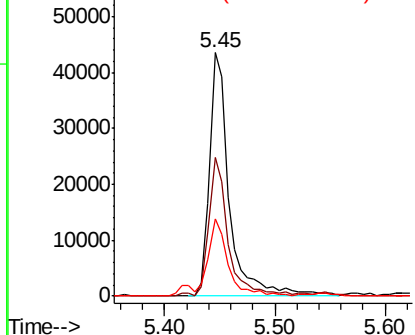


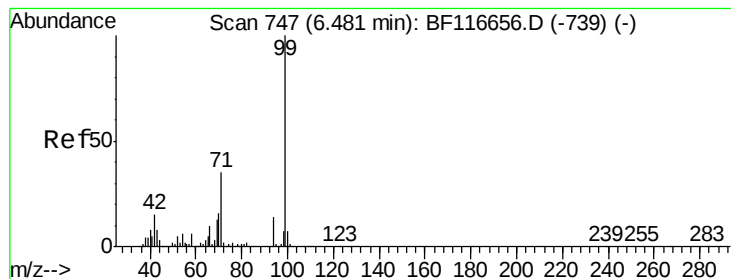
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 7.719 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.01 min

Lab File: BF116940.D

Acq: 10 Sep 2019 23:48

Instrument :

BNA_F

ClientSampled :

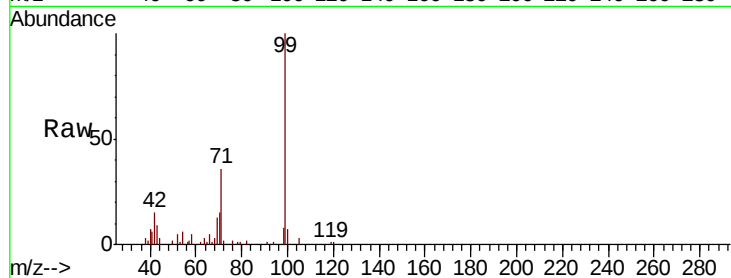
Tot Ion: 99 Resp: 46152

Ion Ratio Lower Upper

99 100

42 14.6 13.7 20.5

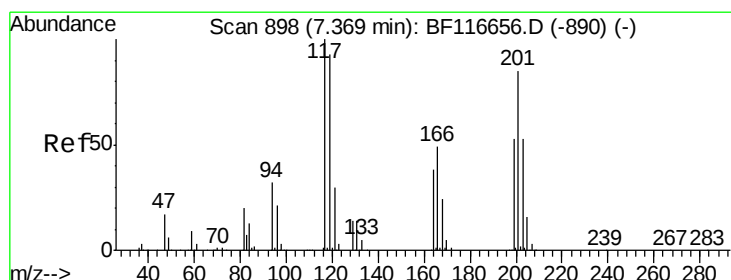
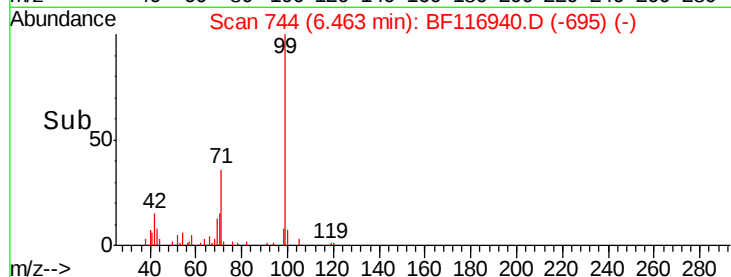
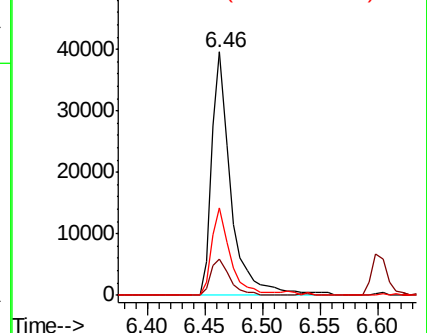
71 35.7 30.8 46.2



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



#18

Hexachloroethane

Concen: 10.012 ng

RT: 7.37 min Scan# 898

Delta R.T. 0.02 min

Lab File: BF116940.D

Acq: 10 Sep 2019 23:48

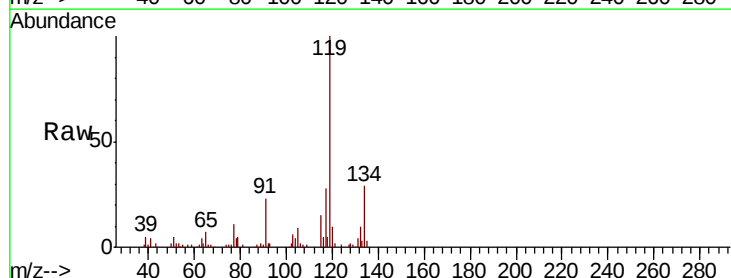
Tgt Ion: 117 Resp: 21757

Ion Ratio Lower Upper

117 100

119 359.6 76.9 115.3#

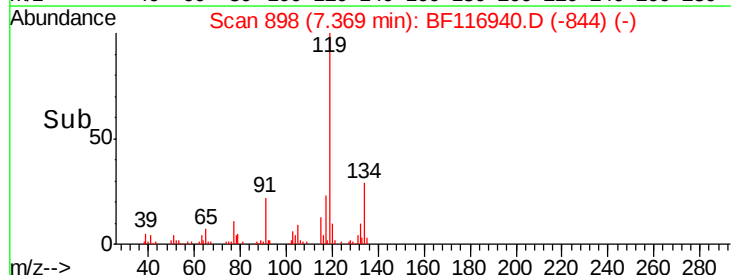
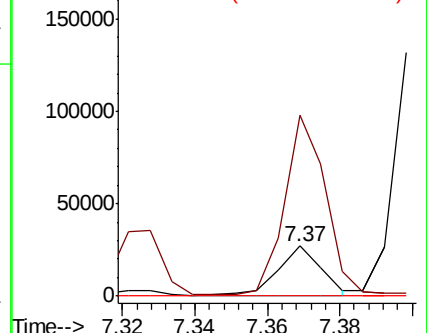
201 0.0 79.4 119.0#

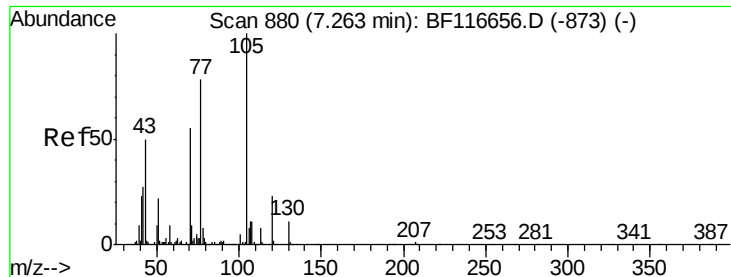


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

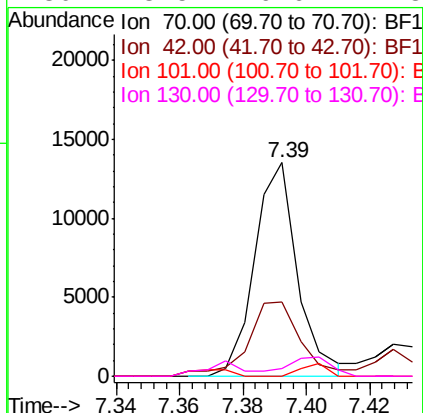
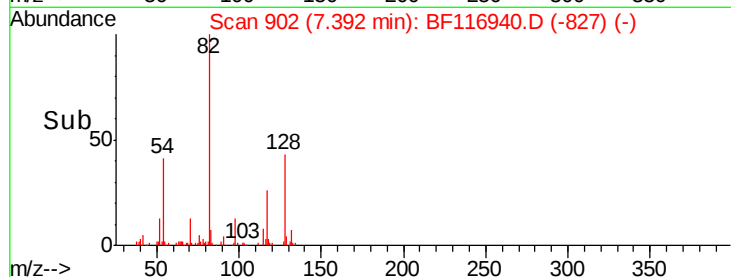
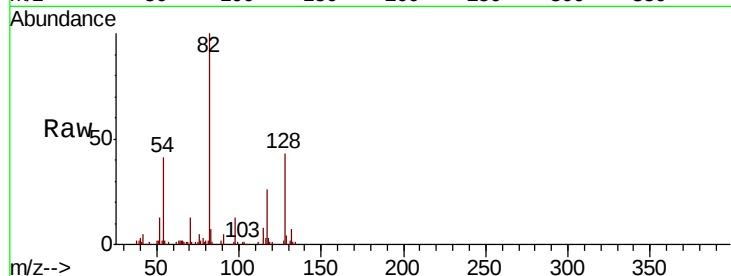




#19
n-Nitroso-di-n-propylamine
Concen: 3.221 ng
RT: 7.39 min Scan# 902
Delta R.T. 0.14 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

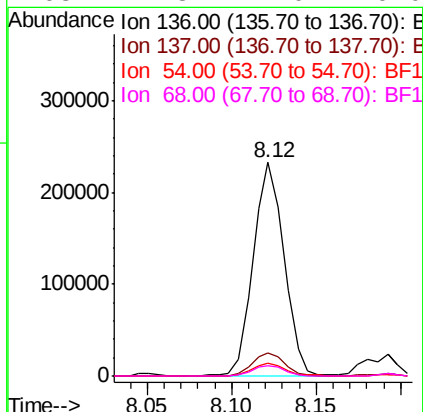
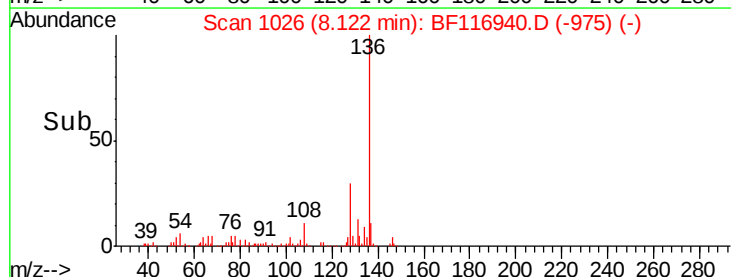
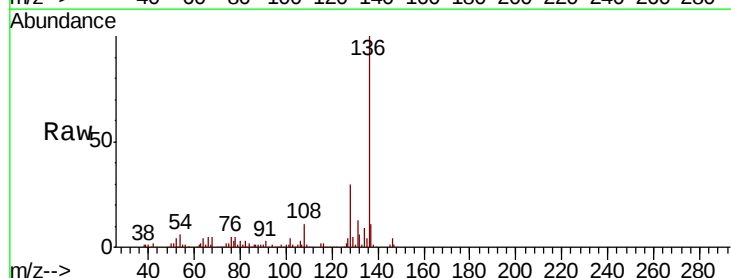
Instrument :
BNA_F
ClientSampleId :

Tot Ion:	70	Resp:	12680
Ion	Ratio	Lower	Upper
70	100		
42	34.6	43.5	65.3#
101	0.0	7.8	11.6#
130	3.5	16.6	24.8#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.12 min Scan# 1026
Delta R.T. 0.00 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

Tgt Ion:	136	Resp:	296331
Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.9	13.3
54	5.9	4.8	7.2
68	4.8	4.0	6.0

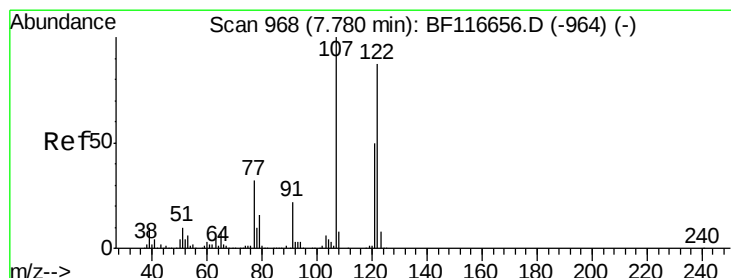
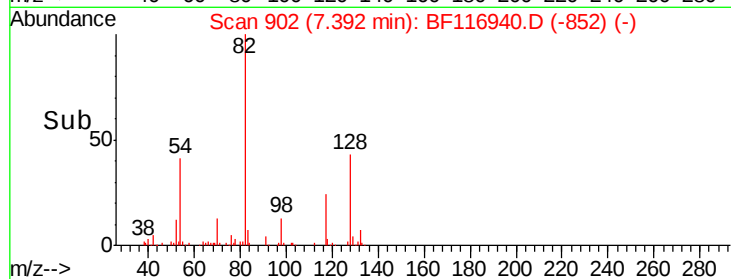
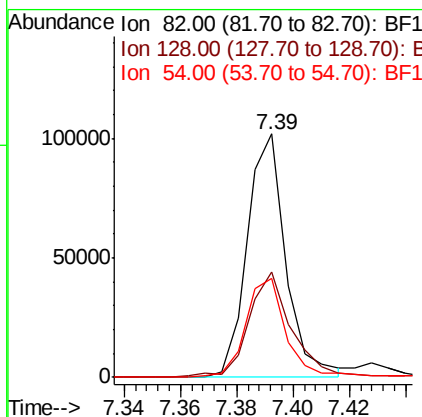
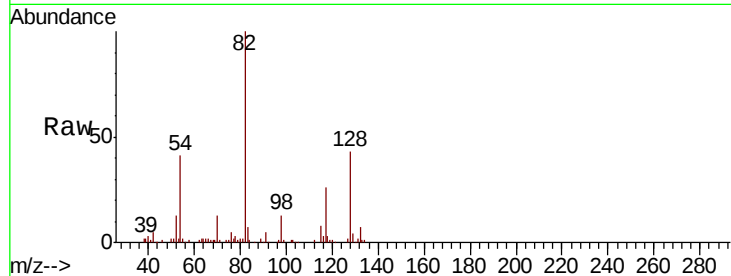




#23
 Nitrobenzene-d5
 Concen: 18.619 ng
 RT: 7.39 min Scan# 902
 Delta R.T. -0.01 min
 Lab File: BF116940.D
 Acq: 10 Sep 2019 23:48

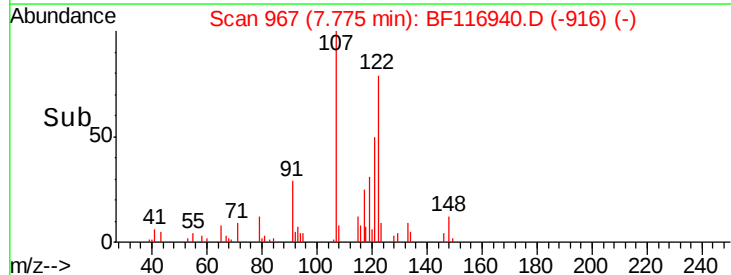
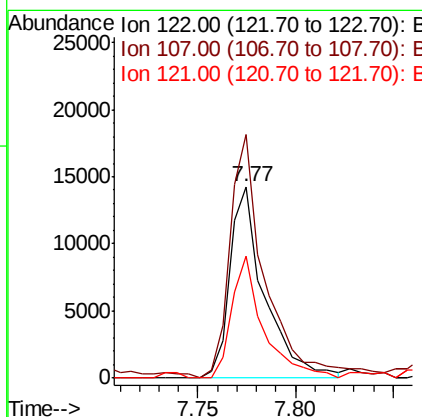
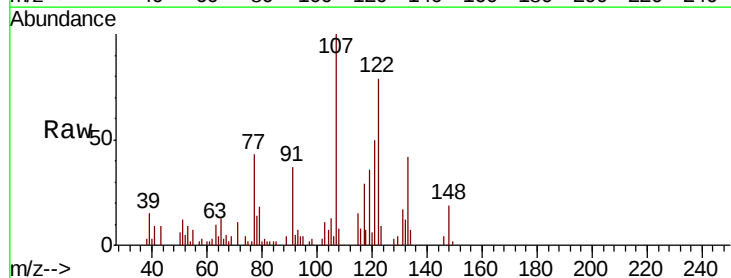
Instrument :
 BNA_F
 ClientSampleId :

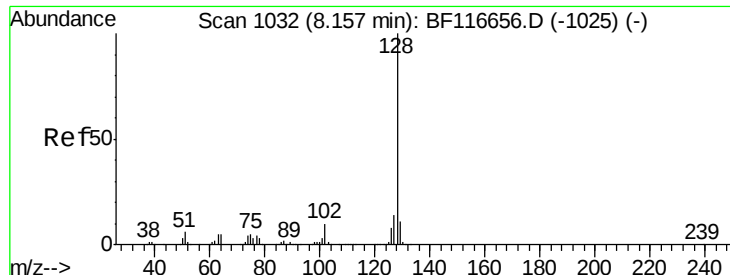
Tot Ion	82	Resp	96649
Ion Ratio	Lower	Upper	
82	100		
128	43.4	32.8	49.2
54	40.6	36.9	55.3



#27
 2,4-Dimethylphenol
 Concen: 4.431 ng
 RT: 7.77 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: BF116940.D
 Acq: 10 Sep 2019 23:48

Tgt Ion	122	Resp	17566
Ion Ratio	Lower	Upper	
122	100		
107	127.3	98.1	147.1
121	64.1	47.3	70.9

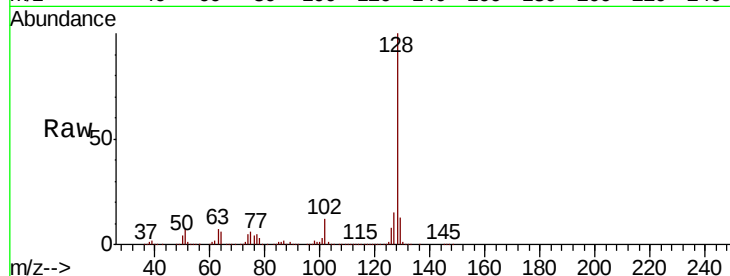




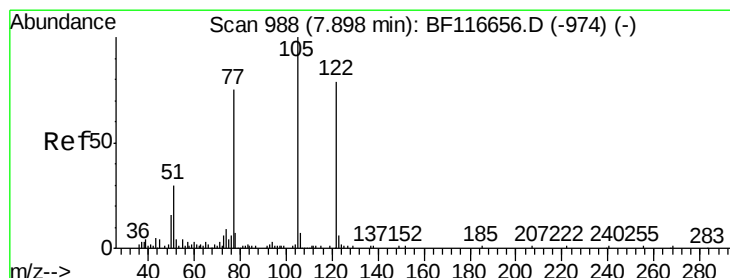
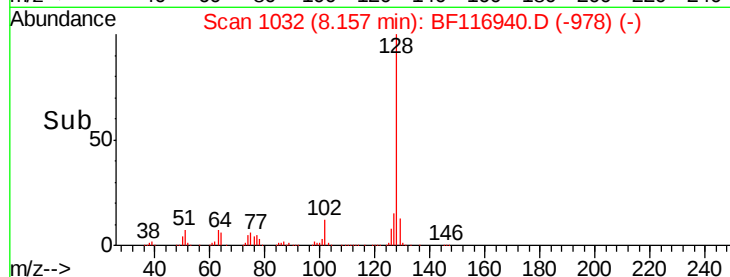
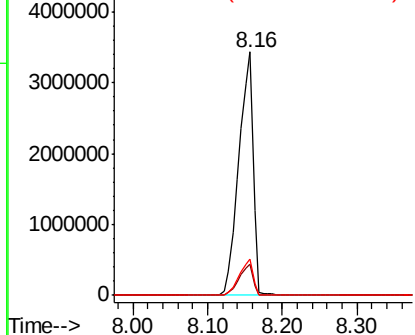
#31
Naphthalene
Concen: 327.850 ng
RT: 8.16 min Scan# 1032
Delta R.T. 0.02 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:128 Resp: 4619686
Ion Ratio Lower Upper
128 100
129 12.8 8.6 13.0
127 15.0 10.4 15.6

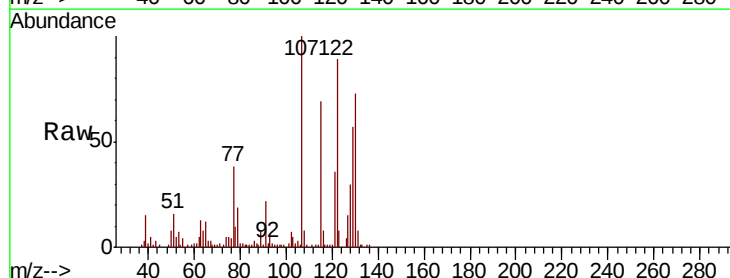


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

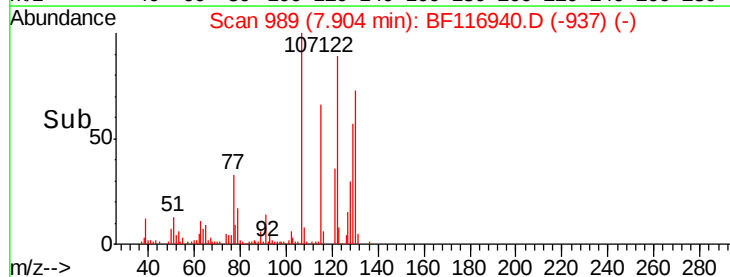
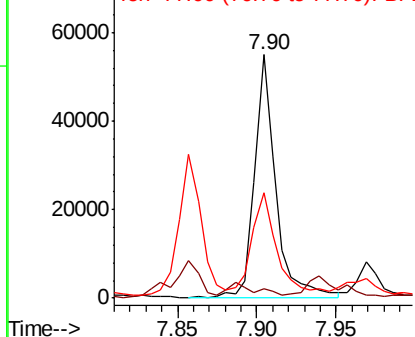


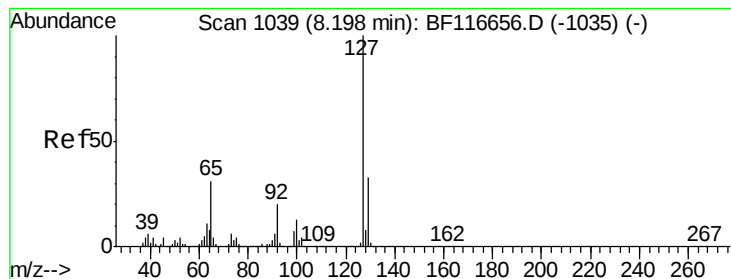
#32
Benzoic acid
Concen: 23.000 ng
RT: 7.90 min Scan# 989
Delta R.T. 0.01 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

Tgt Ion:122 Resp: 51479
Ion Ratio Lower Upper
122 100
105 3.9 110.0 150.0#
77 43.3 81.7 121.7#



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





#33

4-Chloroaniline

Concen: 103.485 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.03 min

Lab File: BF116940.D

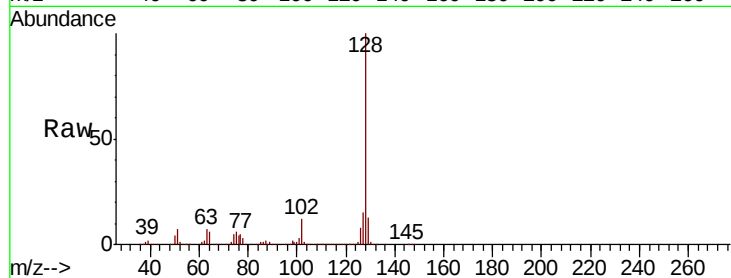
Acq: 10 Sep 2019 23:48

Instrument :

BNA_F

ClientSampleId :

Tot Ion:127	Resp:	663766
Ion Ratio	Lower	Upper
127	100	
129	85.2	26.2 39.2#
65	0.0	26.0 39.0#
92	0.1	16.1 24.1#

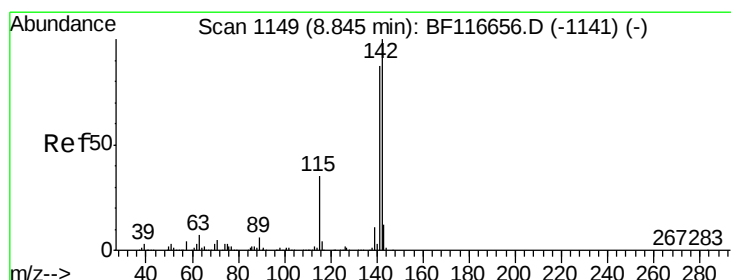
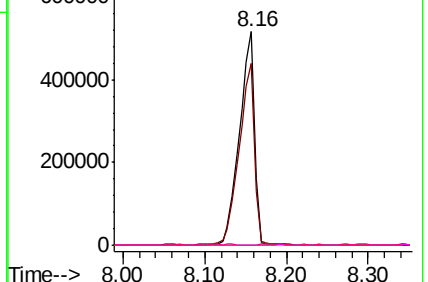
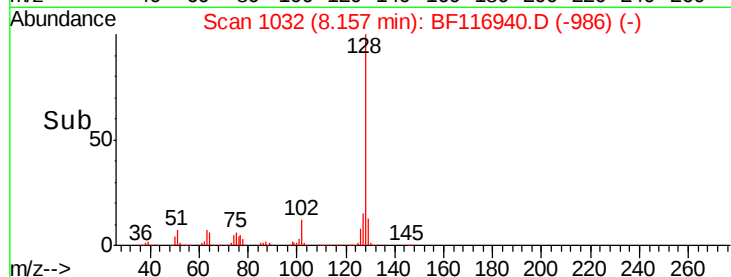


Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1



#37

2-Methylnaphthalene

Concen: 120.805 ng

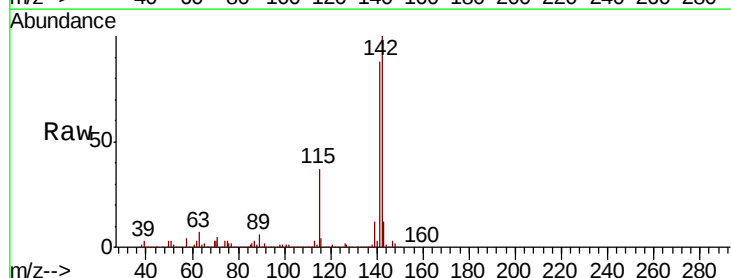
RT: 8.83 min Scan# 1147

Delta R.T. 0.01 min

Lab File: BF116940.D

Acq: 10 Sep 2019 23:48

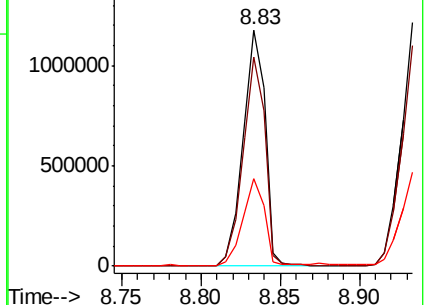
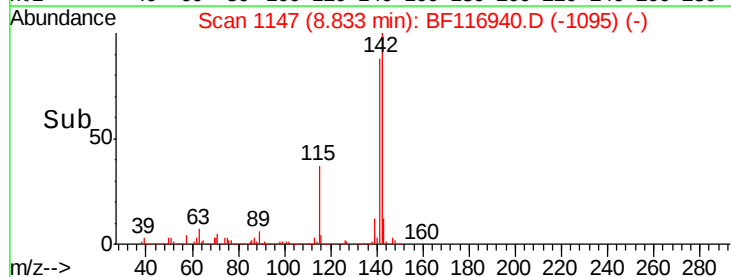
Tgt Ion:142	Resp:	1132593
Ion Ratio	Lower	Upper
142	100	
141	88.2	72.6 109.0
115	37.0	29.8 44.6

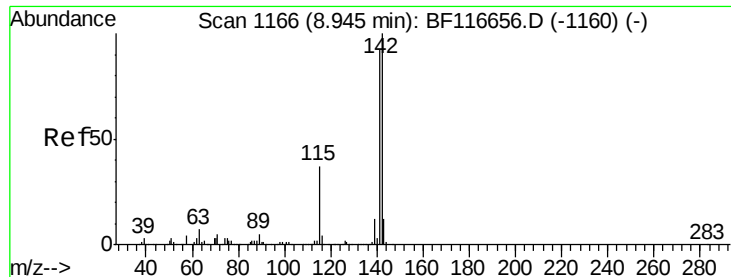


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

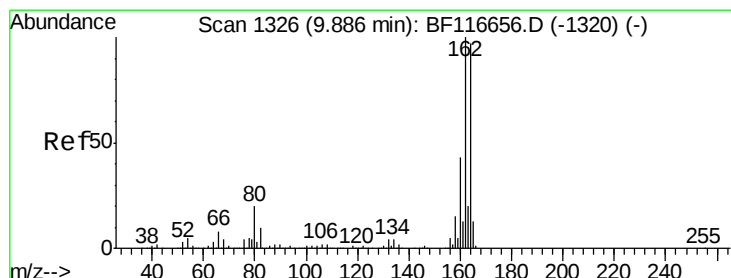
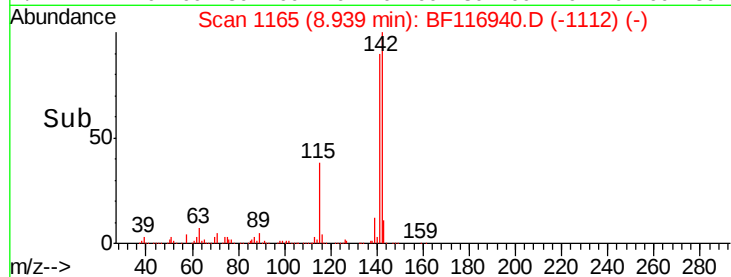
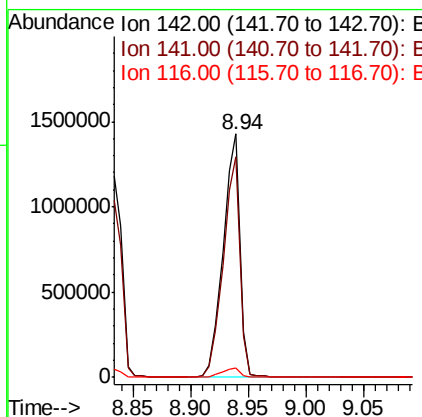
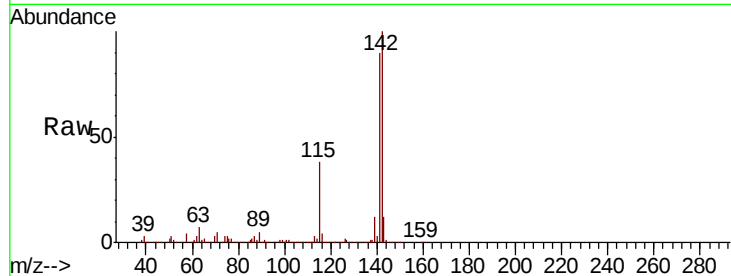




#38
 1-Methylnaphthalene
 Concen: 162.029 ng
 RT: 8.94 min Scan# 1165
 Delta R.T. 0.01 min
 Lab File: BF116940.D
 Acq: 10 Sep 2019 23:48

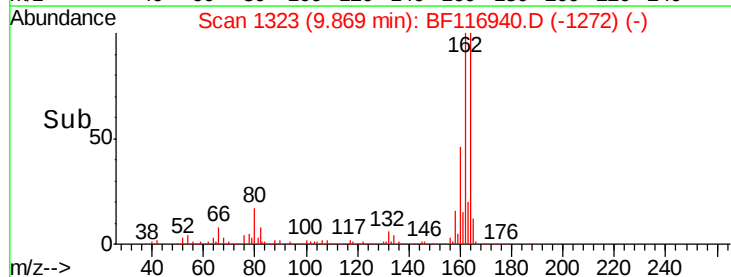
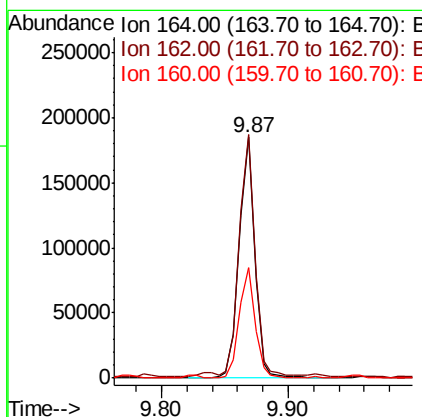
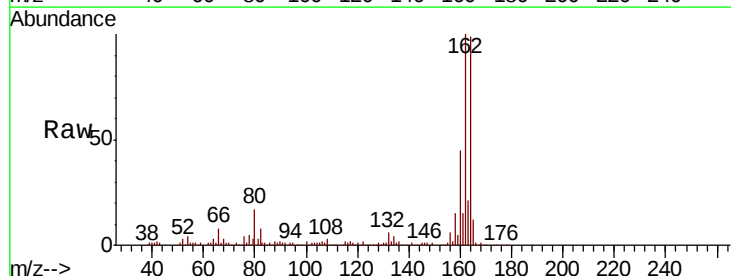
Instrument :
 BNA_F
 ClientSampleId :

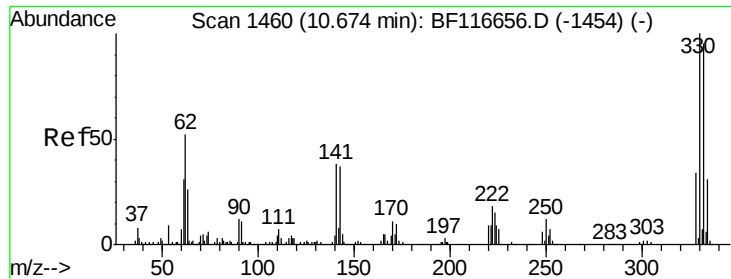
Tot Ion:142 Resp: 1434008
 Ion Ratio Lower Upper
 142 100
 141 90.4 73.9 110.9
 116 3.9 3.0 4.6



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.87 min Scan# 1323
 Delta R.T. 0.00 min
 Lab File: BF116940.D
 Acq: 10 Sep 2019 23:48

Tgt Ion:164 Resp: 157983
 Ion Ratio Lower Upper
 164 100
 162 101.0 81.4 122.0
 160 45.7 35.4 53.2

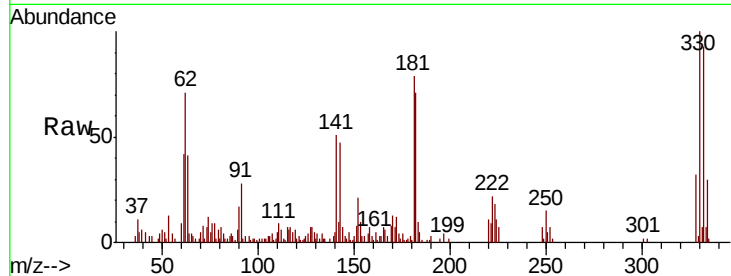




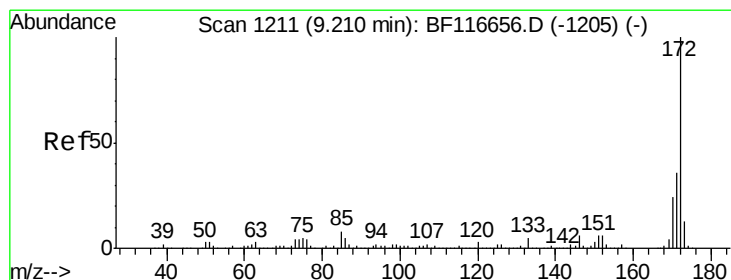
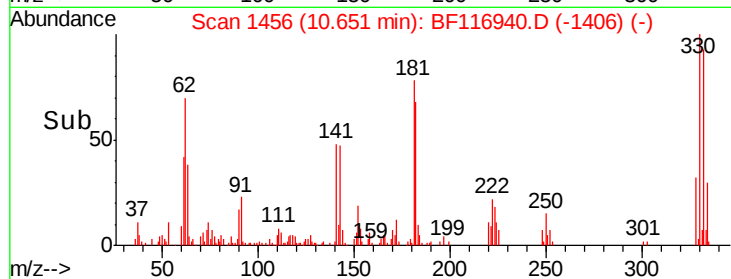
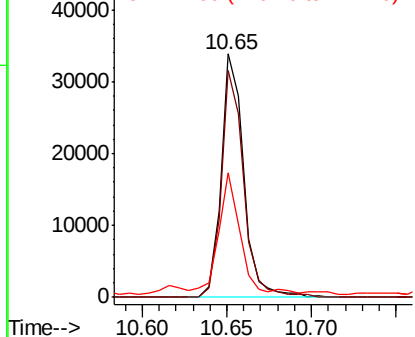
#42
 2,4,6-Tribromophenol
 Concen: 29.913 ng
 RT: 10.65 min Scan# 1456
 Delta R.T. -0.01 min
 Lab File: BF116940.D
 Acq: 10 Sep 2019 23:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 31593
 Ion Ratio Lower Upper
 330 100
 332 92.3 76.9 115.3
 141 49.2 31.4 47.2#

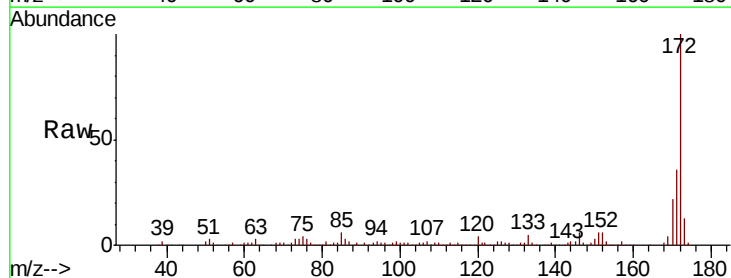


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

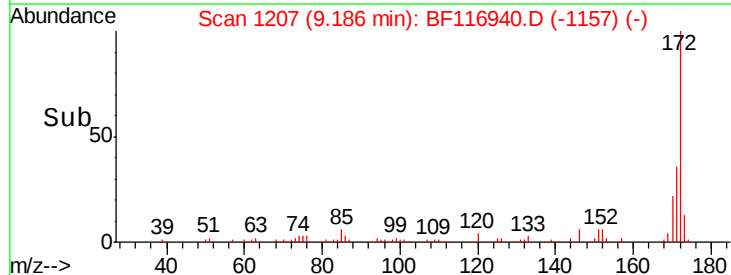
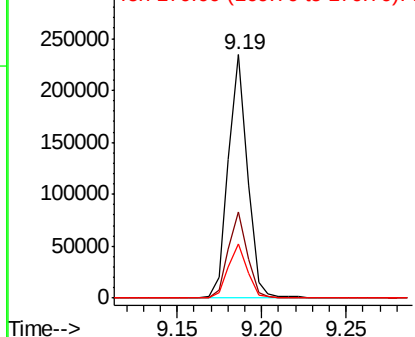


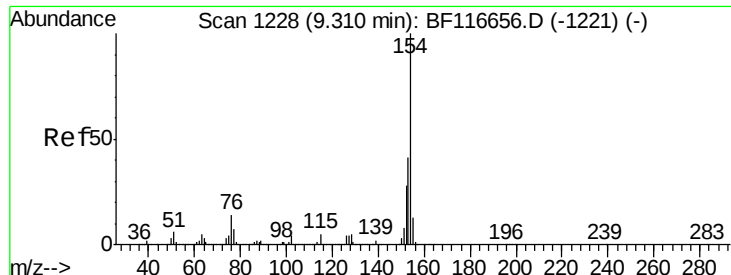
#45
 2-Fluorobiphenyl
 Concen: 19.828 ng
 RT: 9.19 min Scan# 1207
 Delta R.T. -0.01 min
 Lab File: BF116940.D
 Acq: 10 Sep 2019 23:48

Tgt Ion:172 Resp: 185698
 Ion Ratio Lower Upper
 172 100
 171 35.6 27.8 41.6
 170 22.2 18.9 28.3



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

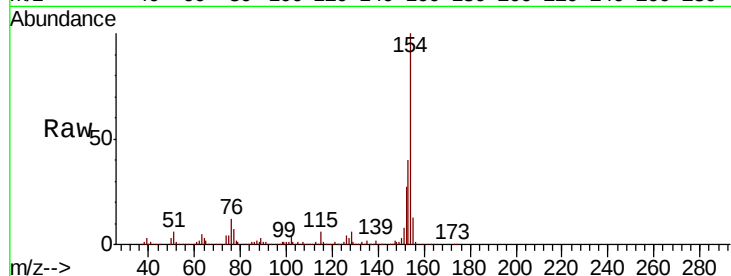




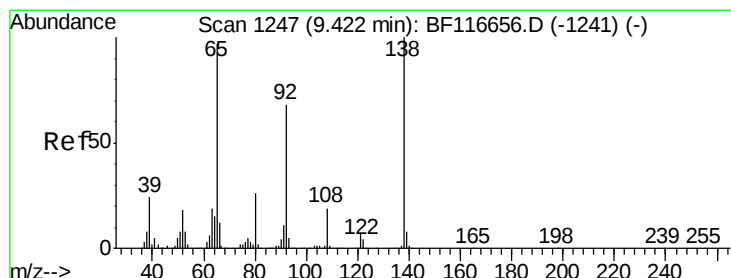
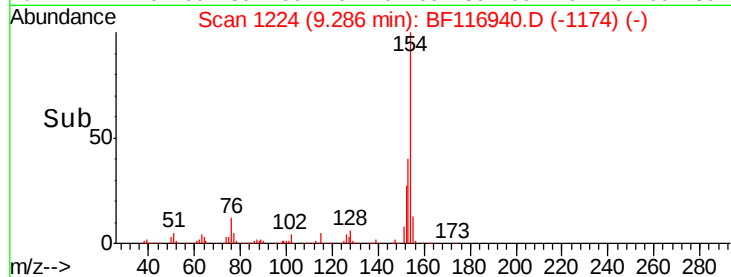
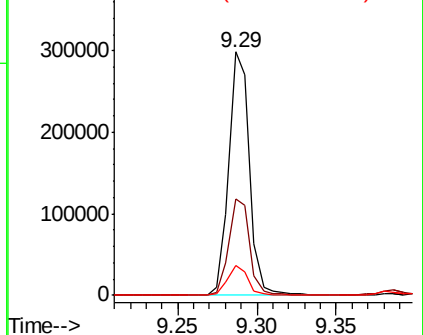
#46
 1,1'-Biphenyl
 Concen: 22.583 ng
 RT: 9.29 min Scan# 1224
 Delta R.T. -0.01 min
 Lab File: BF116940.D
 Acq: 10 Sep 2019 23:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
154	100		
153	39.5	21.2	61.2
76	12.2	0.0	30.9

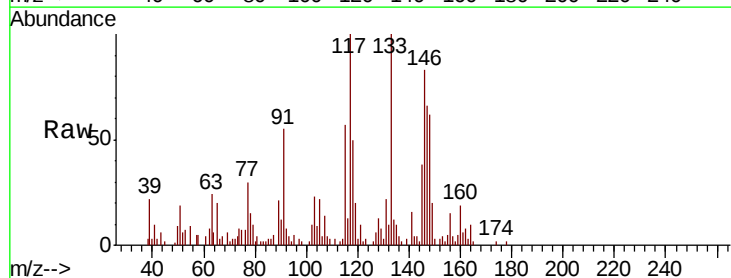


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF1

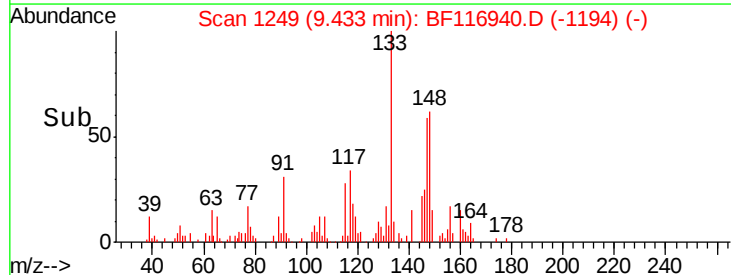
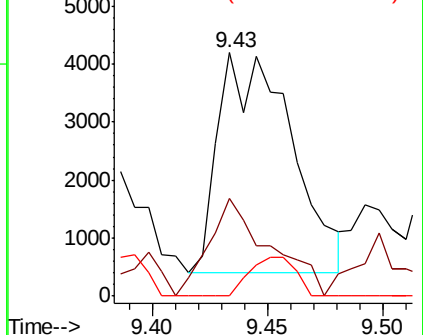


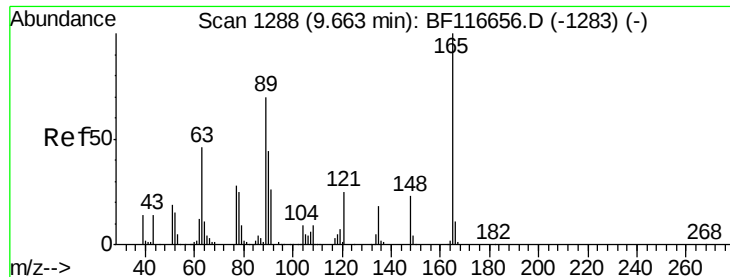
#48
 2-Nitroaniline
 Concen: 3.020 ng
 RT: 9.43 min Scan# 1249
 Delta R.T. 0.02 min
 Lab File: BF116940.D
 Acq: 10 Sep 2019 23:48

Tgt Ion	Ratio	Lower	Upper
65	100		
92	40.0	57.1	85.7#
138	0.0	88.2	132.2#



Abundance Ion 65.00 (64.70 to 65.70): BF1
 Ion 92.00 (91.70 to 92.70): BF1
 Ion 138.00 (137.70 to 138.70): E

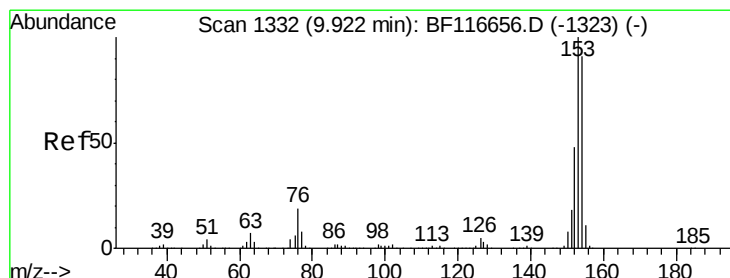
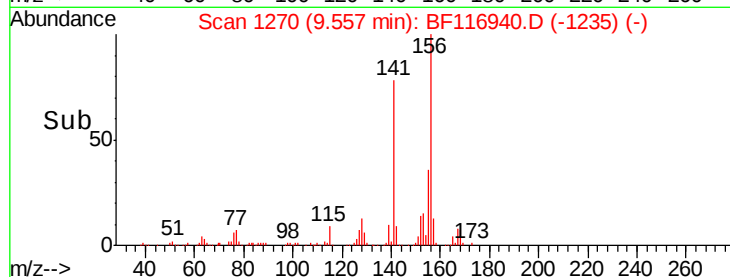
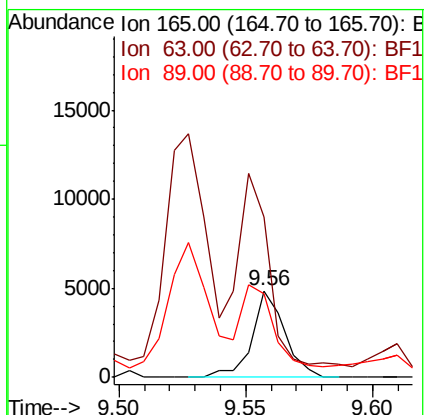
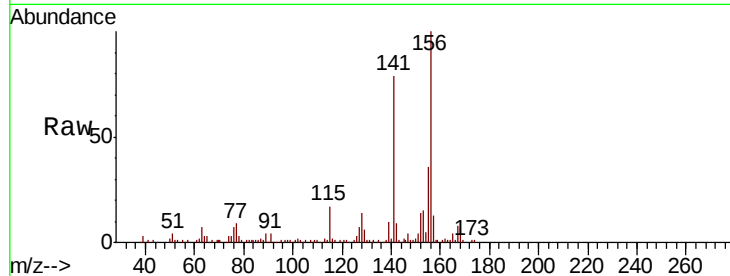




#51
2,6-Dinitrotoluene
Concen: 2.078 ng
RT: 9.56 min Scan# 1270
Delta R.T. -0.09 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

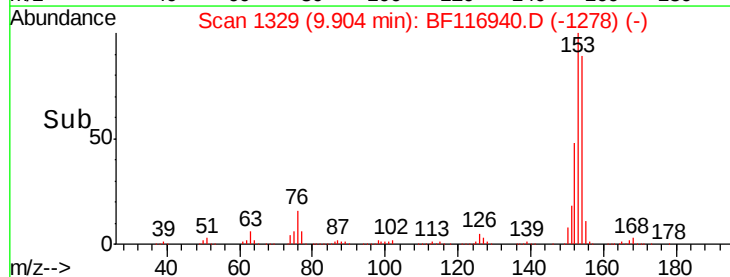
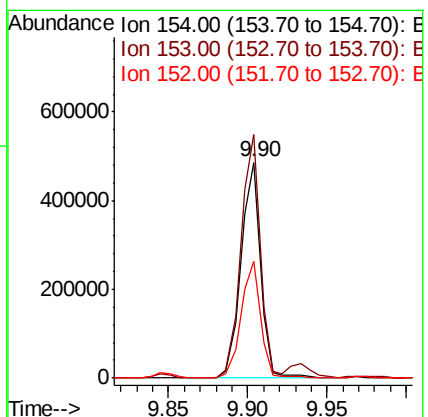
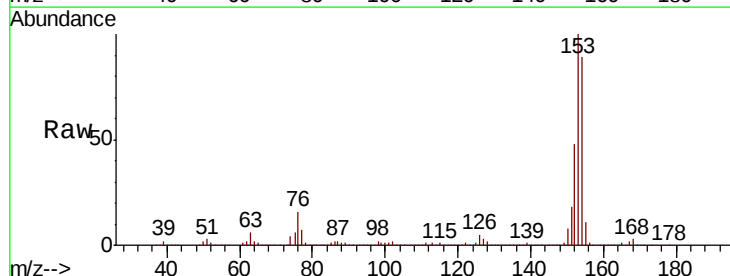
Instrument :
BNA_F
ClientSampleId :

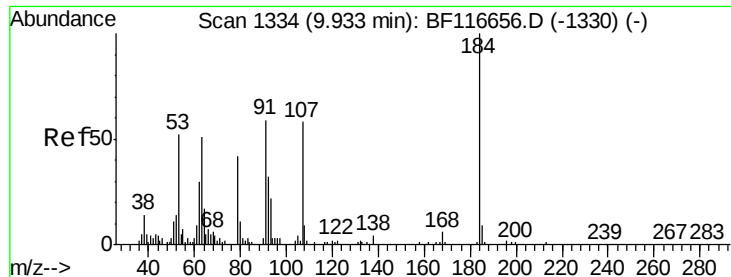
Tot Ion:165 Resp: 4324
Ion Ratio Lower Upper
165 100
63 185.4 47.3 70.9#
89 96.4 52.5 78.7#



#52
Acenaphthene
Concen: 46.829 ng
RT: 9.90 min Scan# 1329
Delta R.T. 0.00 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

Tgt Ion:154 Resp: 412973
Ion Ratio Lower Upper
154 100
153 112.7 89.5 134.3
152 54.3 41.9 62.9

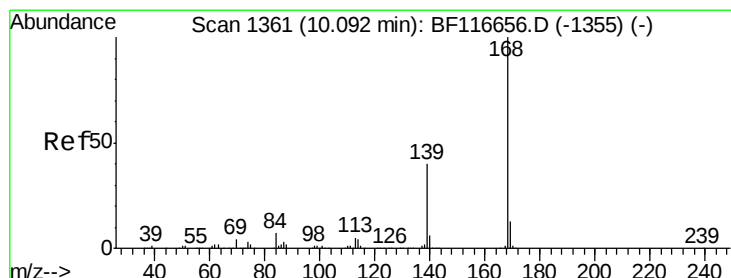
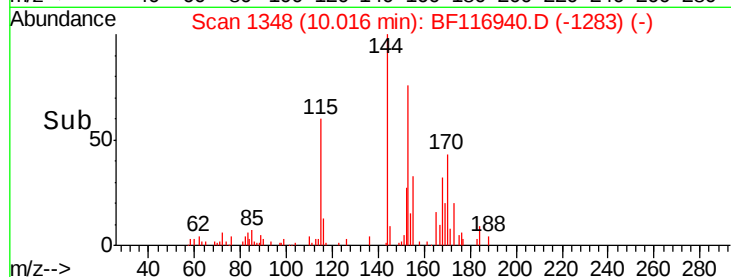
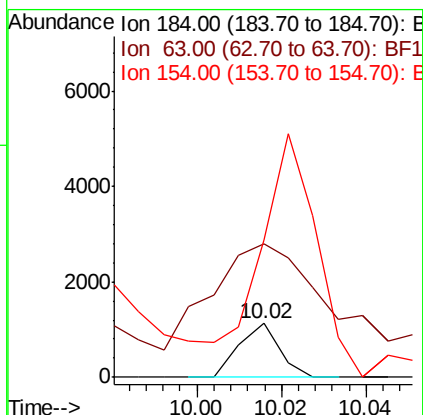
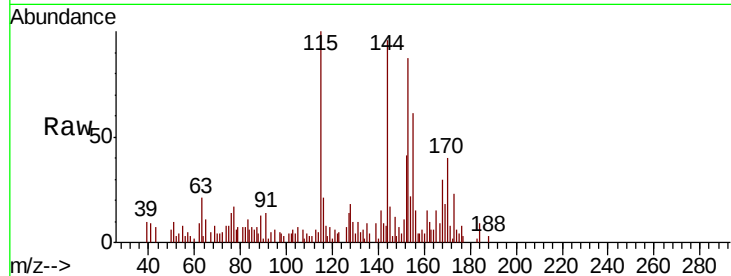




#54
2,4-Dinitrophenol
Concen: 9.938 ng
RT: 10.02 min Scan# 1348
Delta R.T. 0.08 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

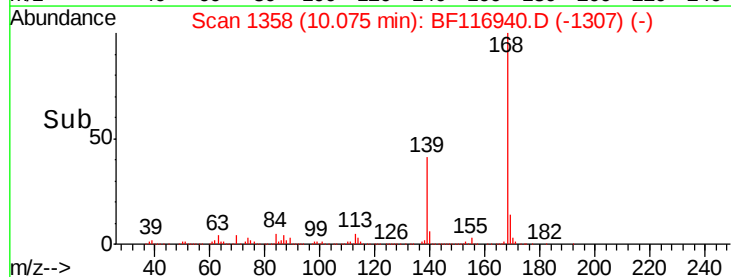
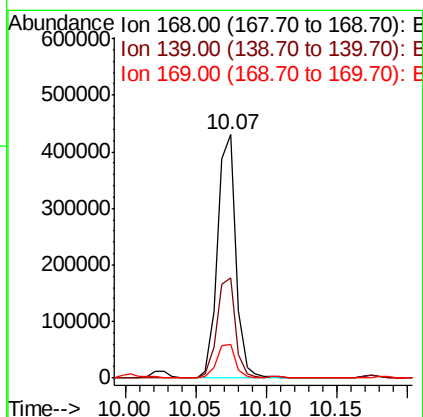
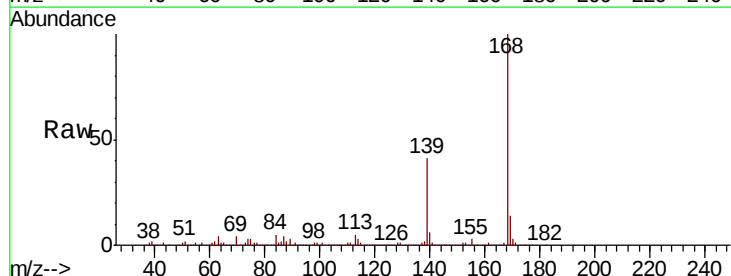
Instrument :
BNA_F
ClientSampleId :

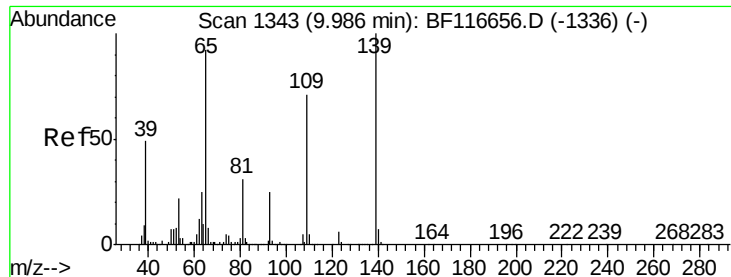
Tot Ion:184 Resp: 747
Ion Ratio Lower Upper
184 100
63 246.6 52.2 78.2#
154 253.8 60.8 91.2#



#55
Dibenzofuran
Concen: 31.292 ng
RT: 10.07 min Scan# 1358
Delta R.T. 0.00 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

Tgt Ion:168 Resp: 389028
Ion Ratio Lower Upper
168 100
139 41.0 31.5 47.3
169 13.9 10.3 15.5

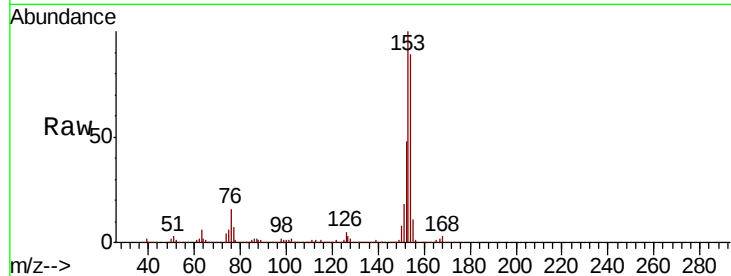




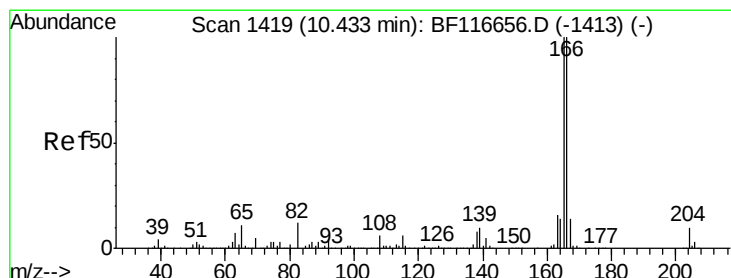
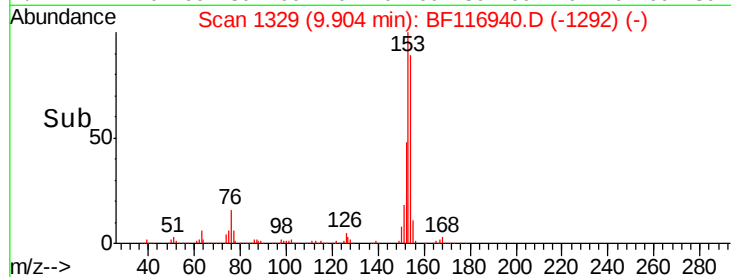
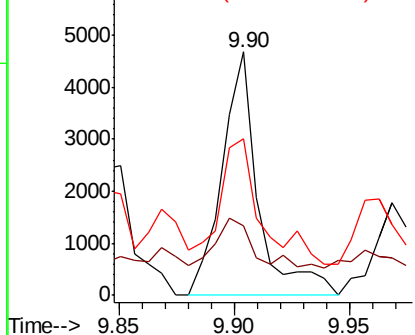
#56
4-Nitrophenol
Concen: 2.848 ng
RT: 9.90 min Scan# 1329
Delta R.T. -0.08 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 5093
Ion Ratio Lower Upper
139 100
109 28.7 61.7 101.7#
65 64.6 89.1 129.1#

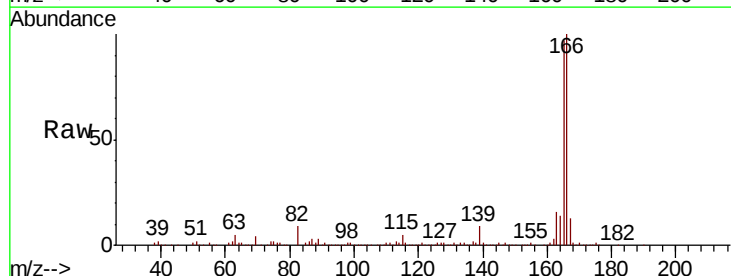


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

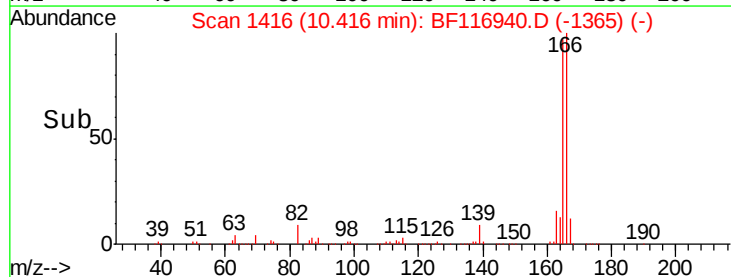
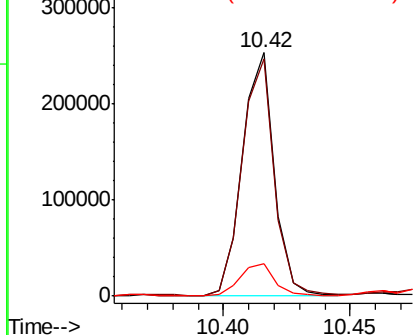


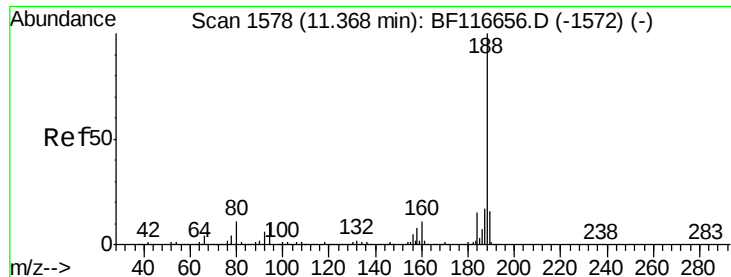
#58
Fluorene
Concen: 23.256 ng
RT: 10.42 min Scan# 1416
Delta R.T. 0.00 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

Tgt Ion:166 Resp: 220300
Ion Ratio Lower Upper
166 100
165 97.2 78.8 118.2
167 13.1 10.0 15.0



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

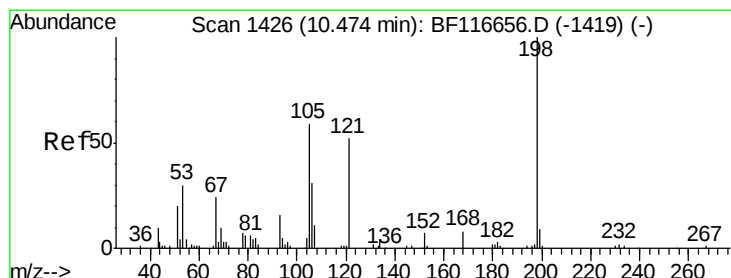
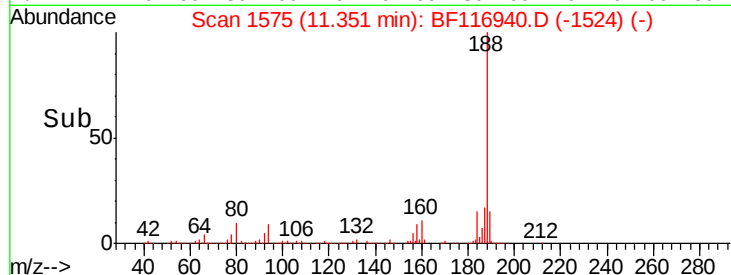
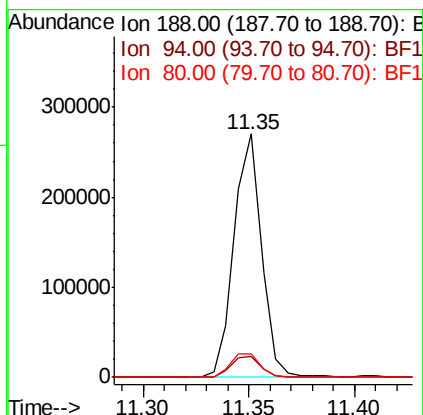
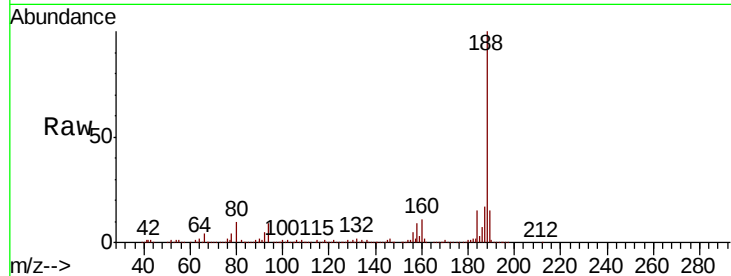




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.35 min Scan# 1575
Delta R.T. 0.00 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

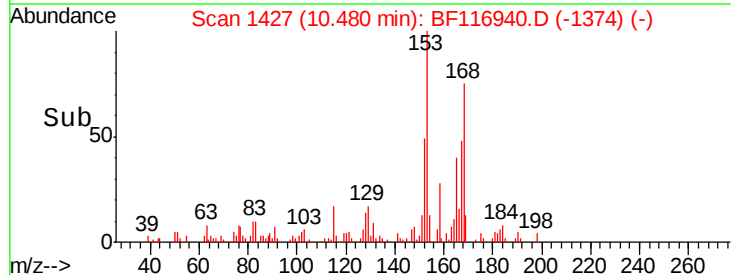
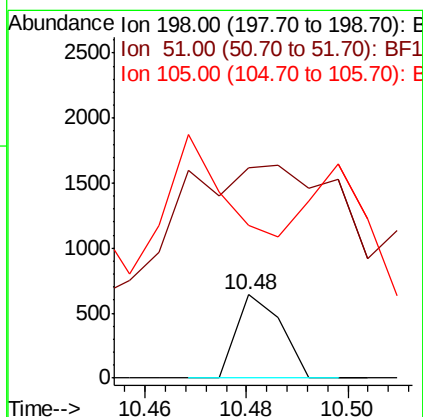
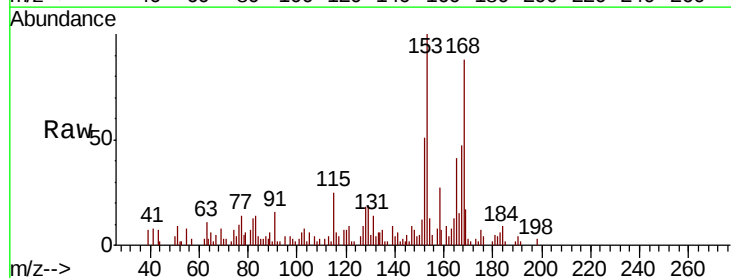
Instrument :
BNA_F
ClientSampleId :

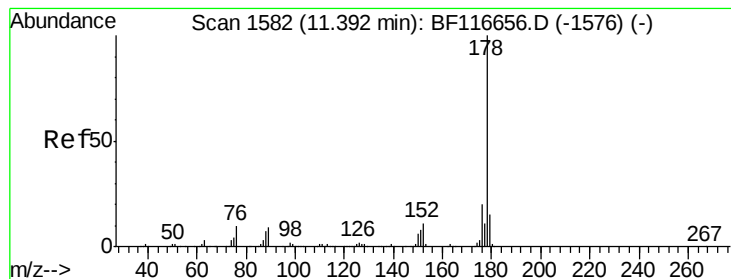
Tot Ion:188 Resp: 243431
Ion Ratio Lower Upper
188 100
94 8.8 7.3 10.9
80 9.7 8.4 12.6



#65
4,6-Dinitro-2-methylphenol
Concen: 7.818 ng
RT: 10.48 min Scan# 1427
Delta R.T. 0.01 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

Tgt Ion:198 Resp: 389
Ion Ratio Lower Upper
198 100
51 253.3 18.4 58.4#
105 184.1 22.9 62.9#





#71

Phenanthrene

Concen: 17.742 ng

RT: 11.37 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BF116940.D

Acq: 10 Sep 2019 23:48

Instrument :

BNA_F

ClientSampleId :

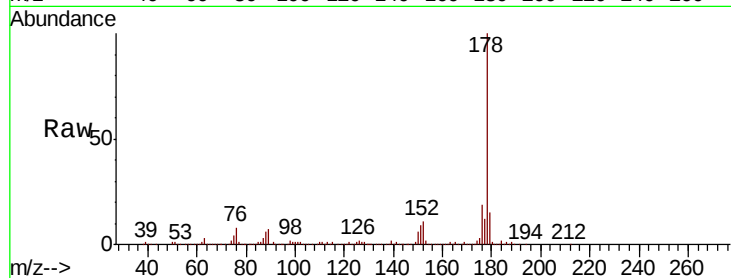
Tot Ion:178 Resp: 240414

Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.0

179 15.3 12.2 18.2

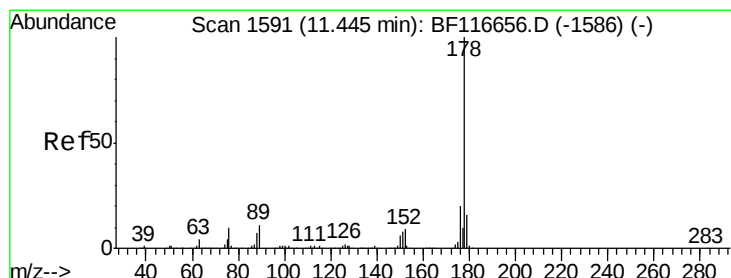
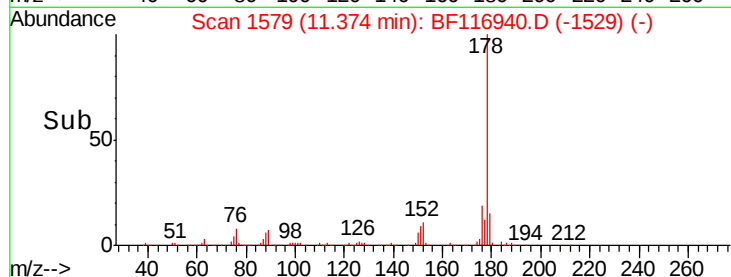
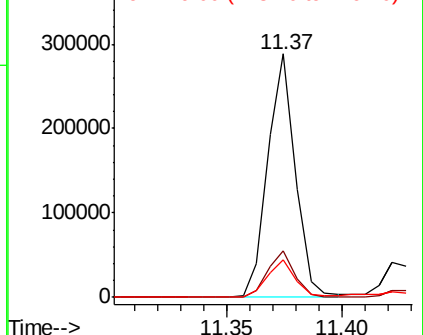


Abundance

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



#72

Anthracene

Concen: 2.684 ng

RT: 11.42 min Scan# 1587

Delta R.T. -0.01 min

Lab File: BF116940.D

Acq: 10 Sep 2019 23:48

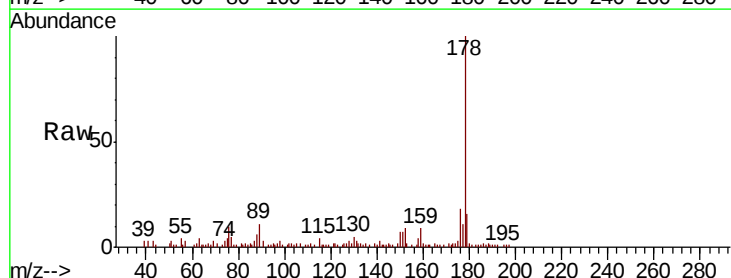
Tgt Ion:178 Resp: 36609

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.0

179 15.9 12.5 18.7

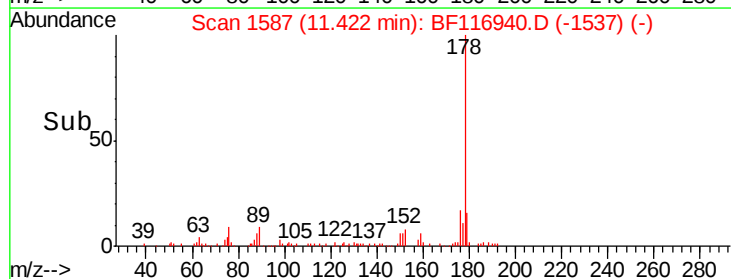
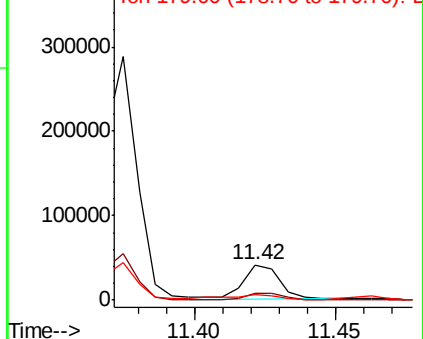


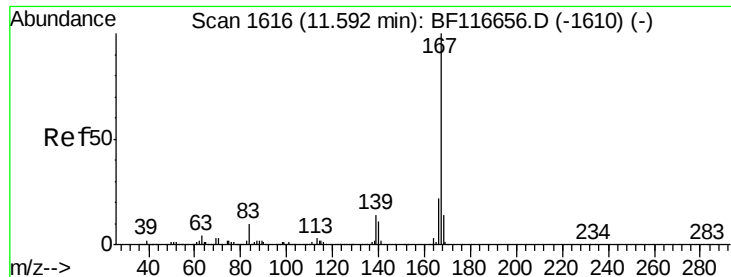
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

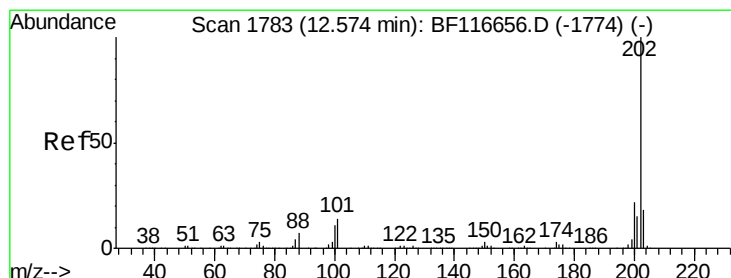
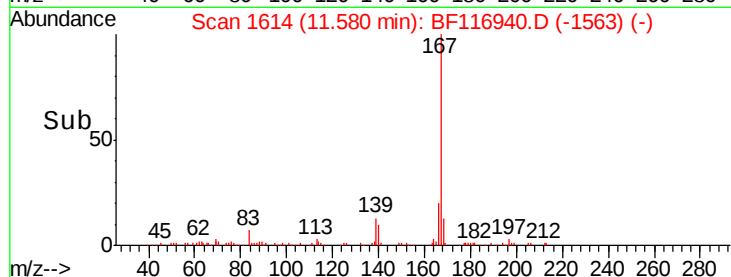
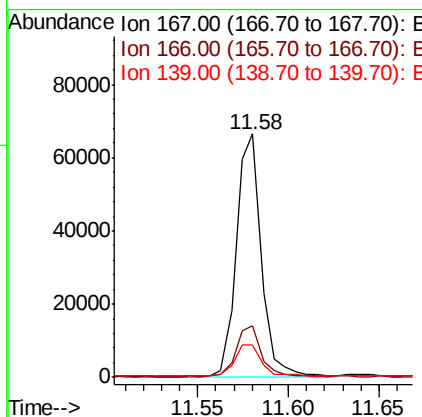
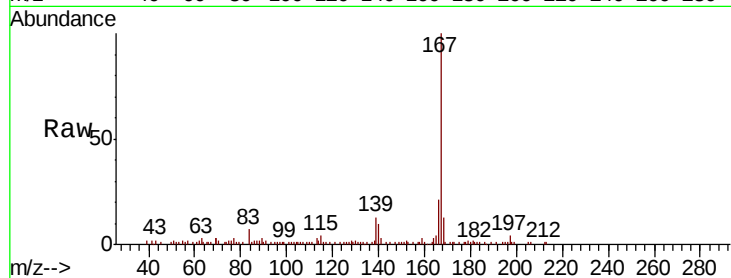




#73
 Carbazole
 Concen: 4.923 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. 0.00 min
 Lab File: BF116940.D
 Acq: 10 Sep 2019 23:48

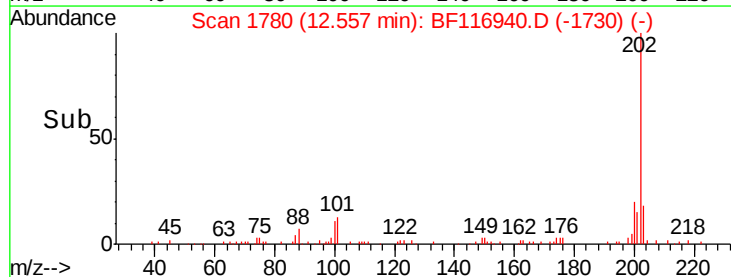
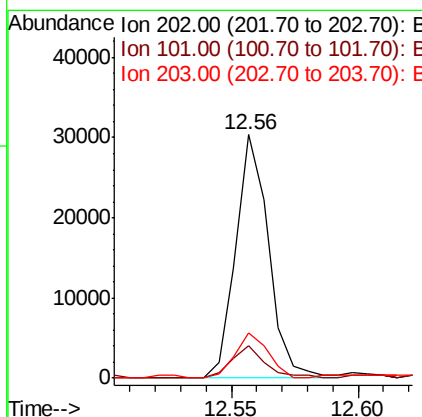
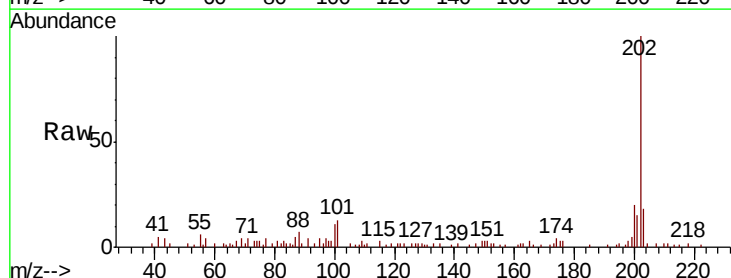
Instrument :
 BNA_F
 ClientSampleId :

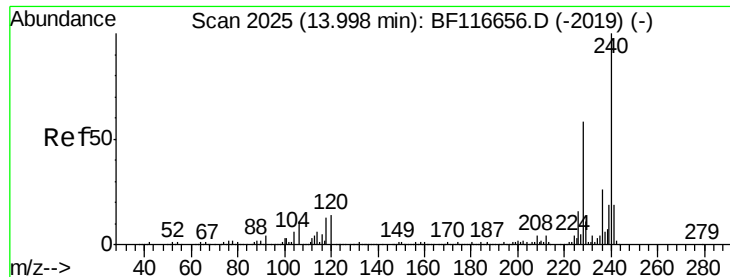
Tot Ion:167 Resp: 63970
 Ion Ratio Lower Upper
 167 100
 166 21.1 17.8 26.6
 139 13.3 11.1 16.7



#75
 Fluoranthene
 Concen: 2.054 ng
 RT: 12.56 min Scan# 1780
 Delta R.T. -0.01 min
 Lab File: BF116940.D
 Acq: 10 Sep 2019 23:48

Tgt Ion:202 Resp: 27353
 Ion Ratio Lower Upper
 202 100
 101 13.1 0.0 31.3
 203 18.4 0.0 37.6

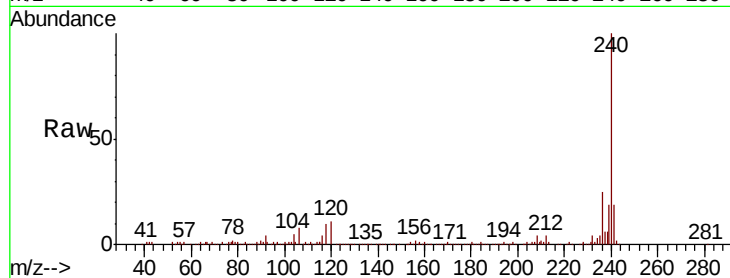




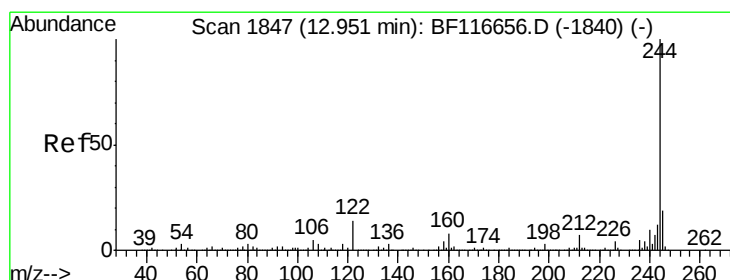
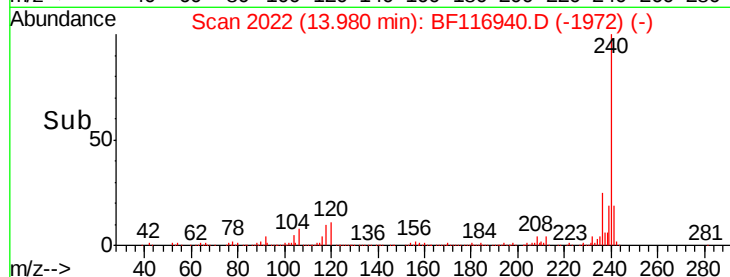
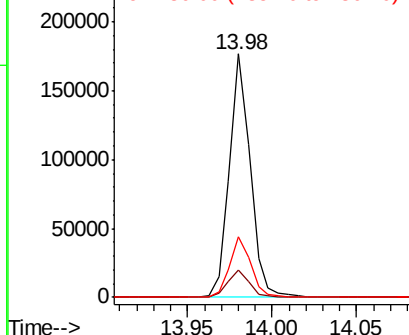
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.01 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:240 Resp: 152301
Ion Ratio Lower Upper
240 100
120 11.2 9.1 13.7
236 25.0 21.1 31.7

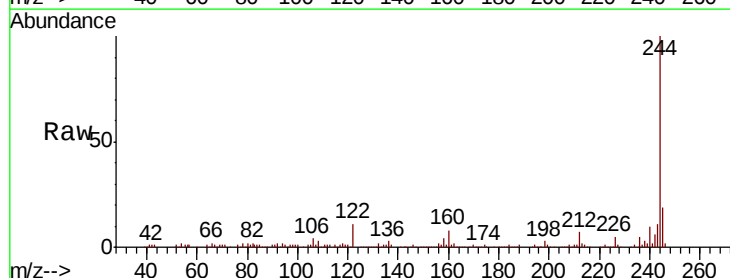


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

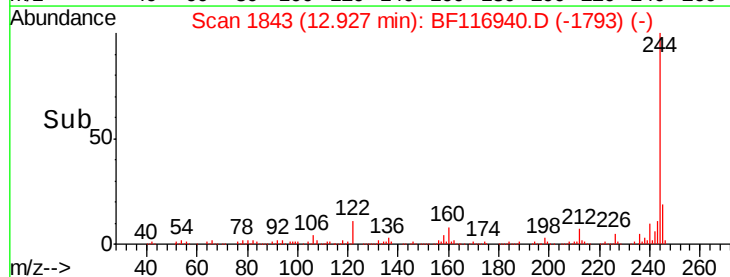
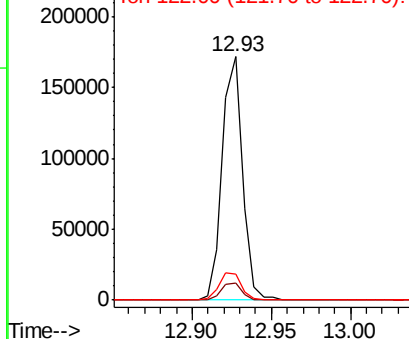


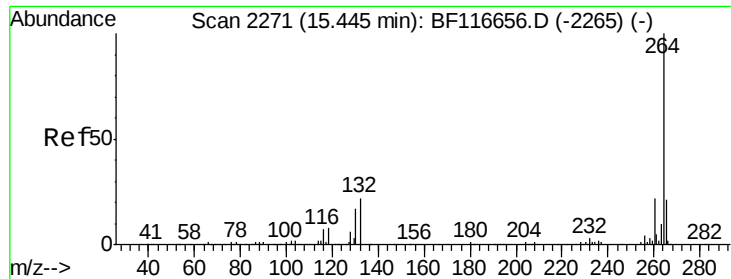
#79
Terphenyl-d14
Concen: 18.576 ng
RT: 12.93 min Scan# 1843
Delta R.T. -0.01 min
Lab File: BF116940.D
Acq: 10 Sep 2019 23:48

Tgt Ion:244 Resp: 152933
Ion Ratio Lower Upper
244 100
212 7.3 6.1 9.1
122 10.6 10.2 15.4



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





#87
 Pervlene-d12
 Concen: 20.000 ng
 RT: 15.43 min Scan# 2269
 Delta R.T. 0.00 min
 Lab File: BF116940.D
 Acq: 10 Sep 2019 23:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.3	27.5
265	20.5	16.5	24.7

