

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103119\
 Data File : BF117658.D
 Acq On : 31 Oct 2019 15:17
 Operator : JU
 Sample : K5540-19
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 01 01:20:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	35209	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	138299	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	72096	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	123956	20.00	ng	0.00
76) Chrysene-d12	13.90	240	79289	20.00	ng	0.00
87) Perylene-d12	15.33	264	76483	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	234704	99.17	ng	0.00
7) Phenol-d6	6.39	99	335821	105.65	ng	0.00
23) Nitrobenzene-d5	7.30	82	205193	73.25	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	59479	95.35	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	276136	53.97	ng	-0.01
79) Terphenyl-d14	12.83	244	259388	53.36	ng	0.00

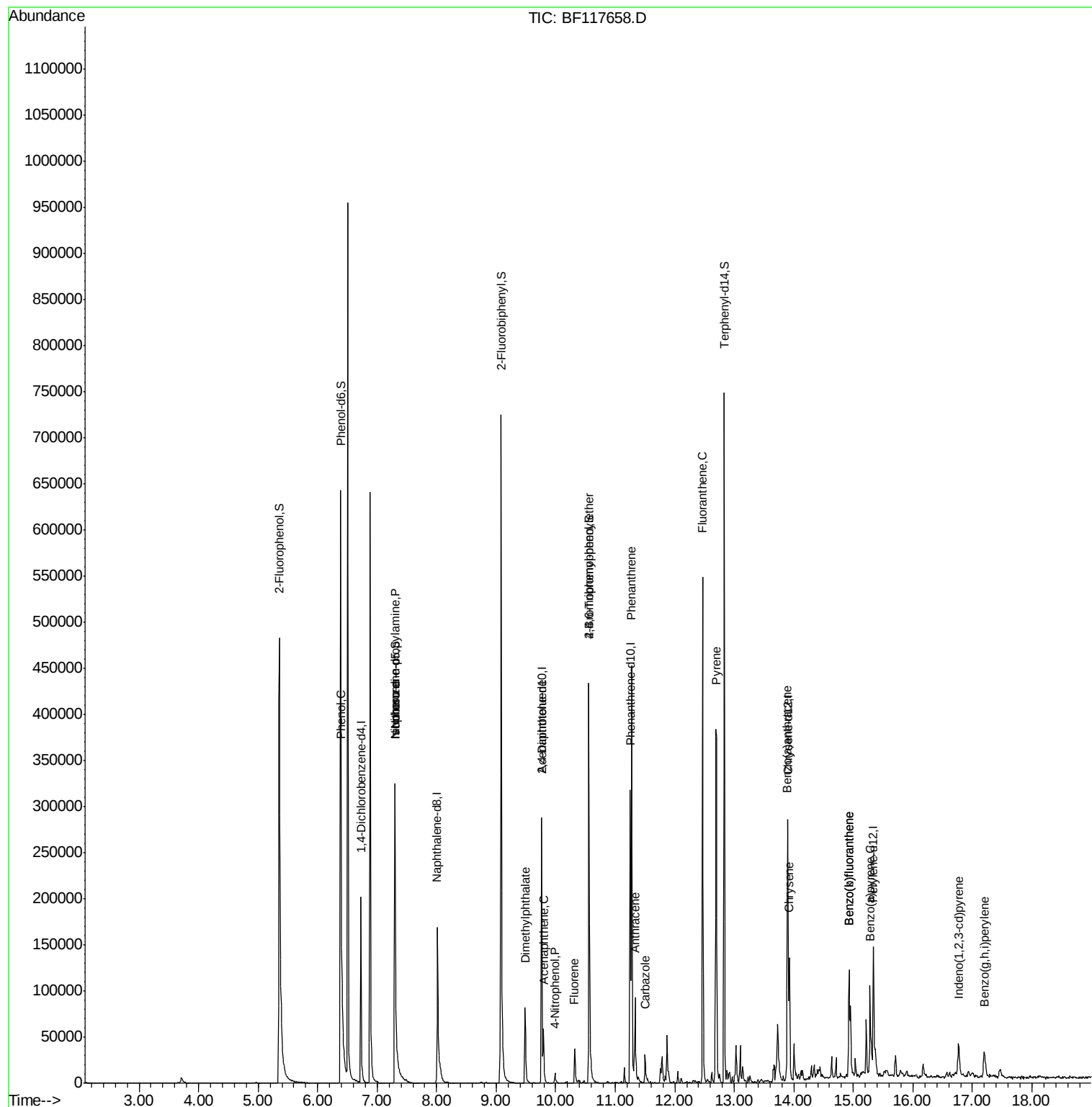
Target Compounds				Qvalue		
9) Benzaldehyde	6.39	77	410	Below Cal	#	3
10) Phenol	6.40	94	14596	4.499	ng	97
19) n-Nitroso-di-n-propylamine	7.30	70	25766	13.273	ng	# 78
25) Isophorone	7.30	82	205192	42.341	ng	# 65
50) Dimethylphthalate	9.49	163	48687	9.473	ng	98
52) Acenaphthene	9.79	154	13560	3.344	ng	93
56) 4-Nitrophenol	9.99	139	3429	9.559	ng	# 6
57) 2,4-Dinitrotoluene	9.76	165	8930	6.263	ng	# 12
58) Fluorene	10.32	166	15994	3.292	ng	99
67) 4-Bromophenyl-phenylether	10.56	248	3802	2.848	ng	# 1
71) Phenanthrene	11.27	178	191188	26.563	ng	99
72) Anthracene	11.33	178	53634	7.262	ng	96
73) Carbazole	11.50	167	21348	3.163	ng	99
75) Fluoranthene	12.47	202	224390	31.142	ng	99
77) Benzidine	12.83	184	3501	Below Cal	#	97
78) Pyrene	12.70	202	183080	26.882	ng	99
81) Benzo(a)anthracene	13.89	228	64893	12.133	ng	98
83) Chrysene	13.93	228	58472	11.155	ng	97
86) Indeno(1,2,3-cd)pyrene	16.77	276	30888	7.893	ng	97
88) Benzo(b)fluoranthene	14.93	252	83193	18.420	ng	100
89) Benzo(k)fluoranthene	14.93	252	83193	17.972	ng	98
90) Benzo(a)pyrene	15.28	252	48301	11.763	ng	95
92) Benzo(g,h,i)perylene	17.19	276	30381	9.043	ng	# 94

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

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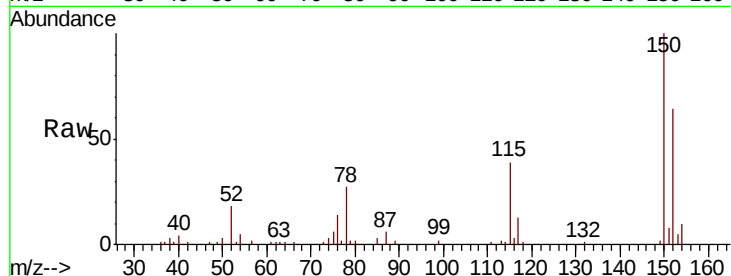


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.8	126.8	190.2
115	61.3	51.6	77.4

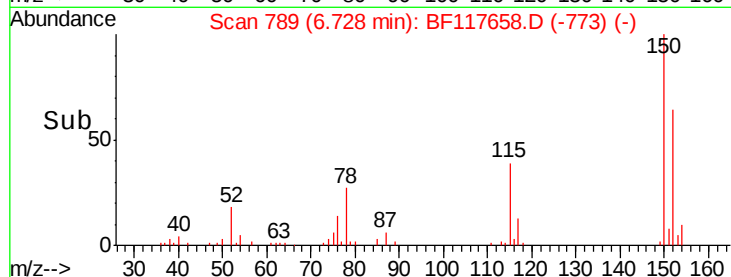
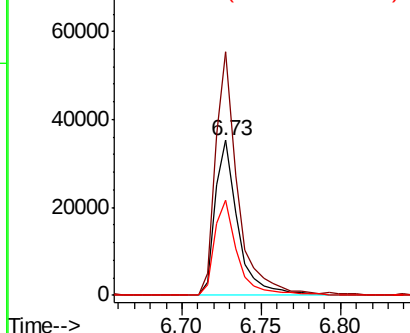


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

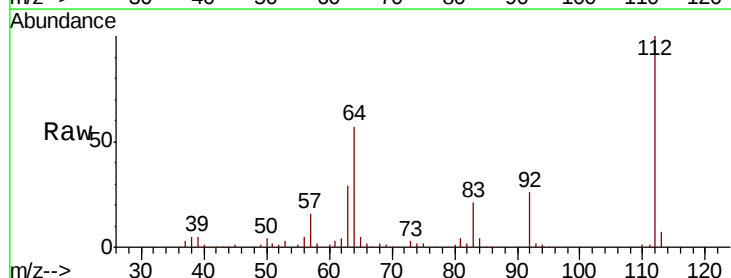
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 99.171 ng
RT: 5.36 min Scan# 556
Delta R.T. 0.01 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.9	44.1	66.1
63	28.9	23.4	35.2

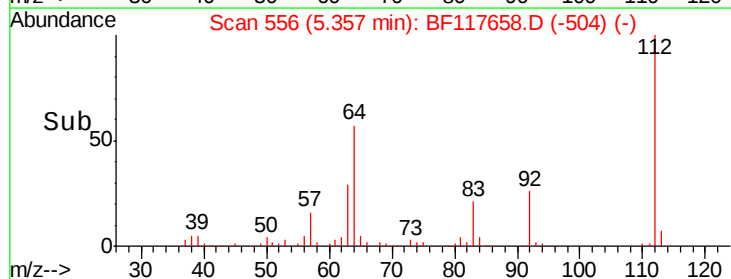
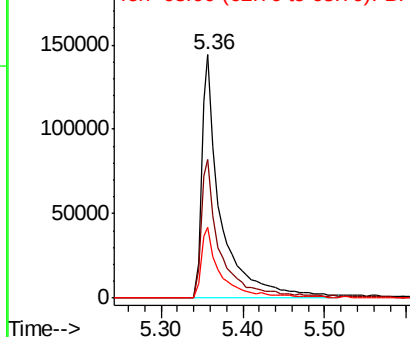


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 105.647 ng

RT: 6.39 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF117658.D

Acq: 31 Oct 2019 15:17

Instrument :

BNA_F

ClientSampleId :

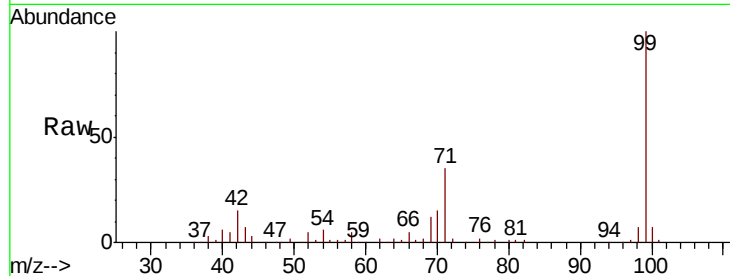
Tot Ion: 99 Resp: 335821

Ion Ratio Lower Upper

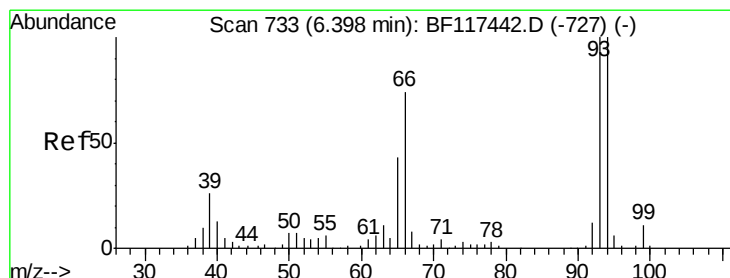
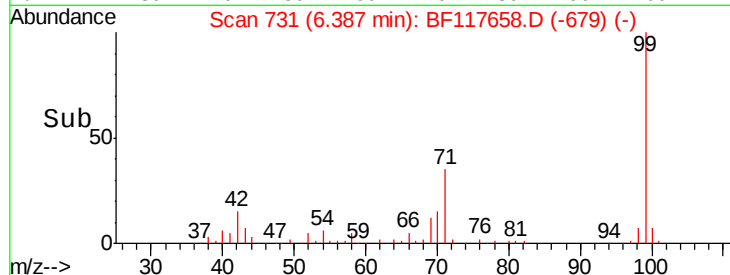
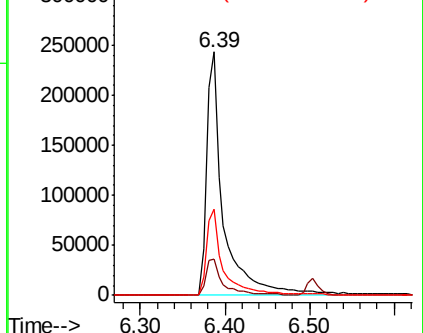
99 100

42 15.1 12.8 19.2

71 35.5 28.6 43.0



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



#10

Phenol

Concen: 4.499 ng

RT: 6.40 min Scan# 733

Delta R.T. 0.00 min

Lab File: BF117658.D

Acq: 31 Oct 2019 15:17

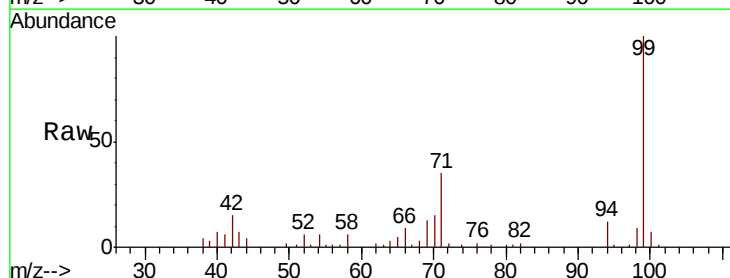
Tgt Ion: 94 Resp: 14596

Ion Ratio Lower Upper

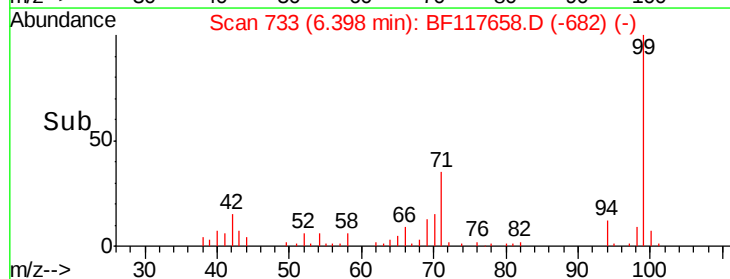
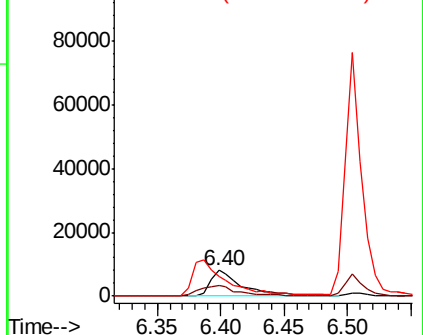
94 100

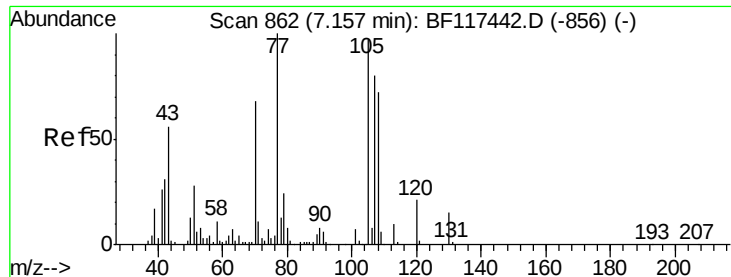
65 40.8 23.4 63.4

66 77.1 54.7 94.7



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

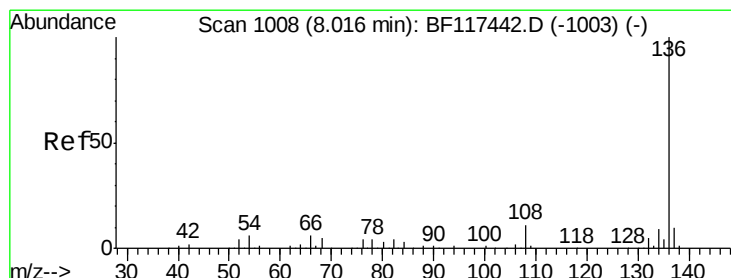
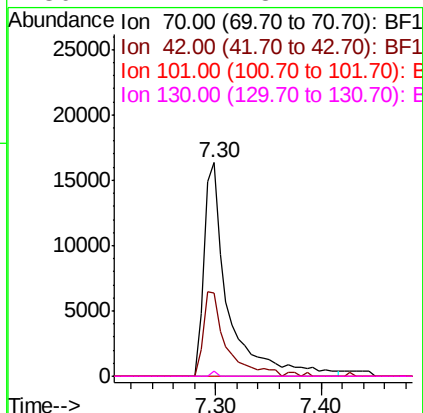
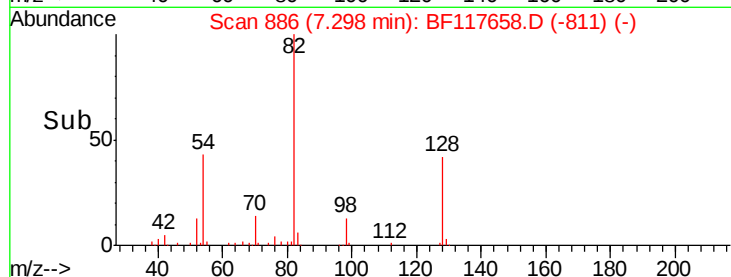
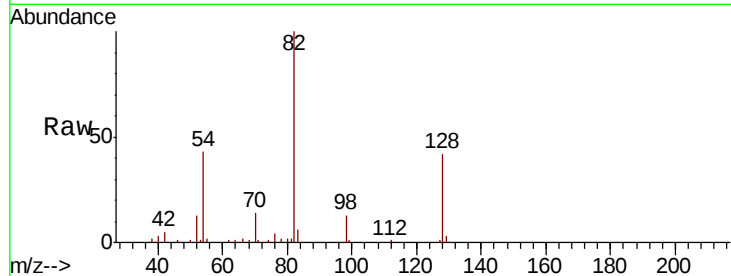




#19
n-Nitroso-di-n-propylamine
Concen: 13.273 ng
RT: 7.30 min Scan# 886
Delta R.T. 0.14 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

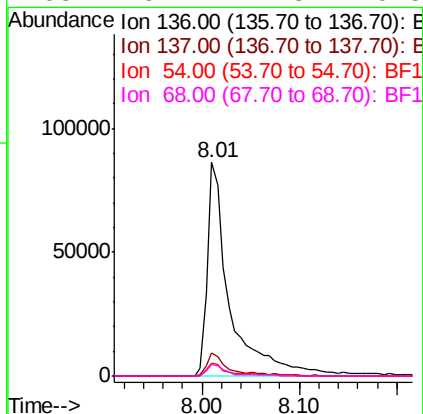
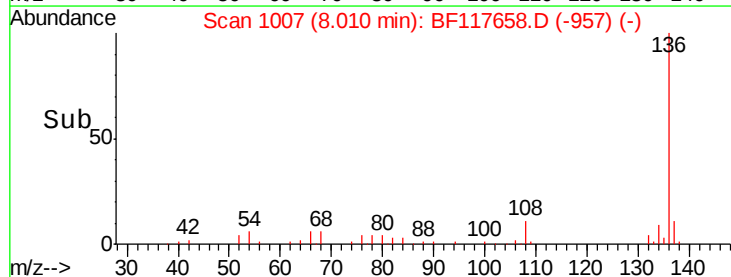
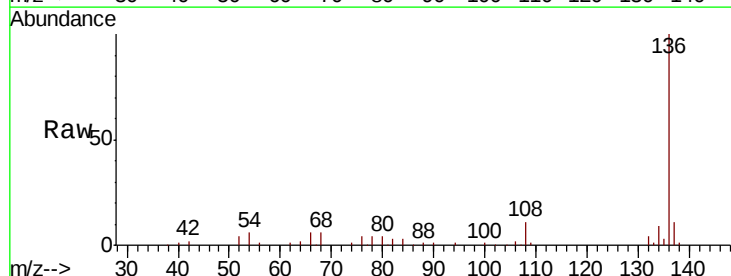
Instrument :
BNA_F
ClientSampled :

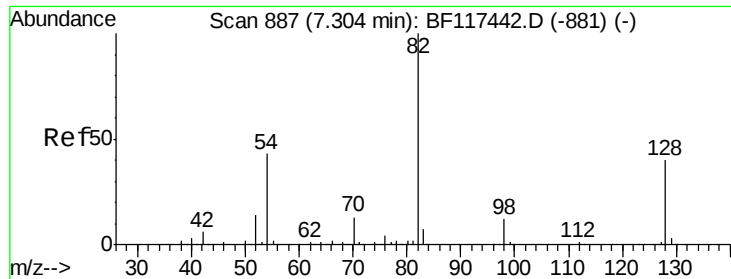
Tot Ion: 70 Resp: 25766
Ion Ratio Lower Upper
70 100
42 39.1 36.7 55.1
101 0.0 8.3 12.5#
130 2.4 18.1 27.1#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Tgt Ion:136 Resp: 138299
Ion Ratio Lower Upper
136 100
137 10.7 8.2 12.4
54 6.2 4.5 6.7
68 5.7 4.3 6.5

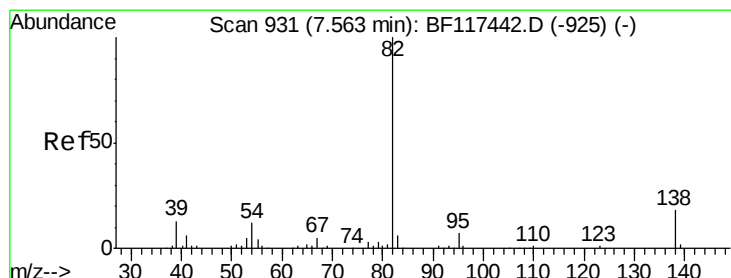
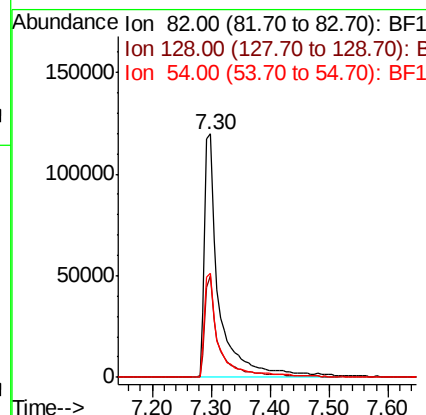
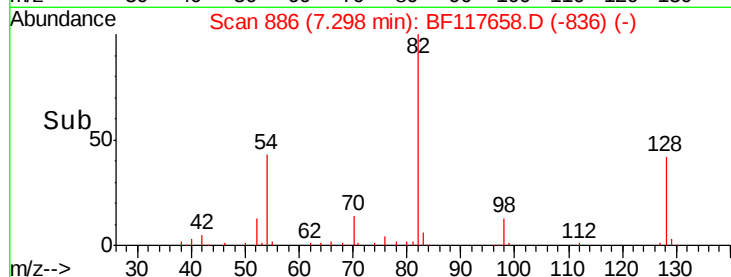
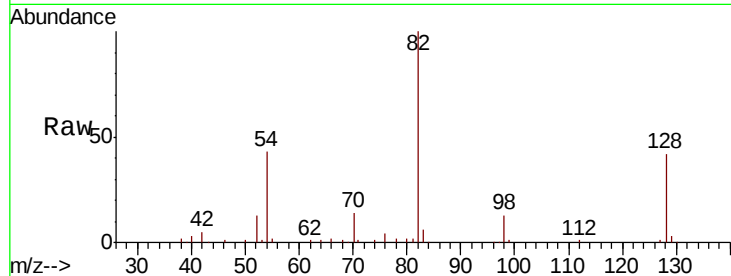




#23
Nitrobenzene-d5
Concen: 73.247 ng
RT: 7.30 min Scan# 886
Delta R.T. -0.01 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

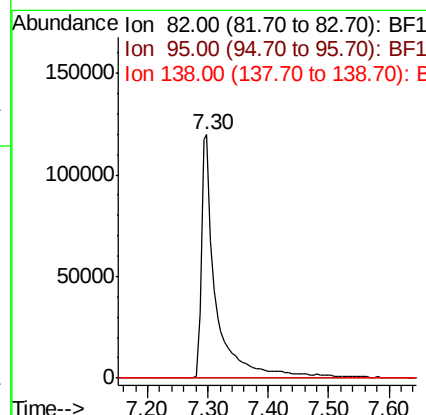
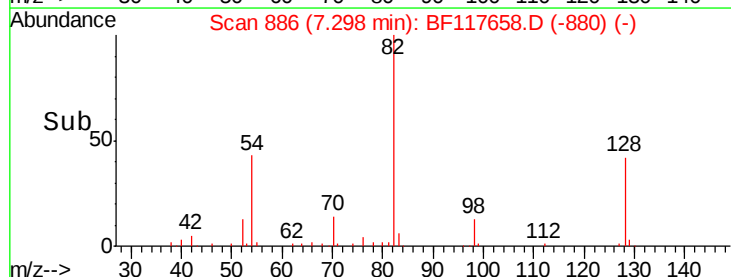
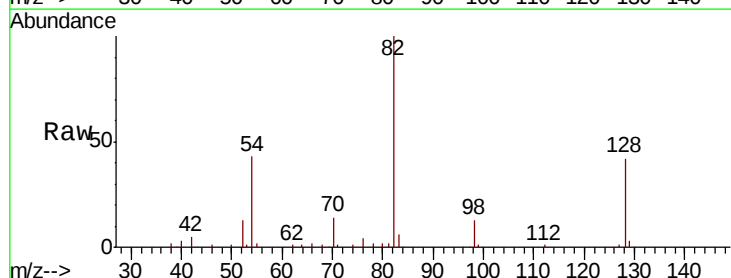
Instrument :
BNA_F
ClientSampleId :

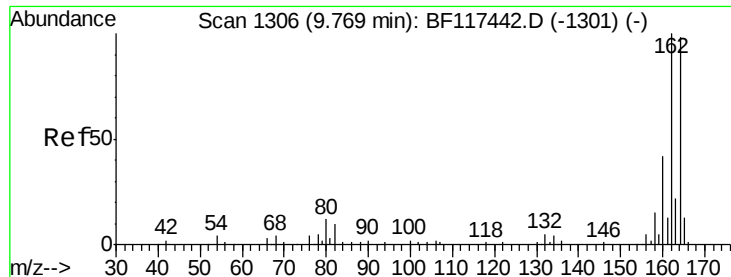
Tot Ion	82	Resp	205193
Ion Ratio	Lower	Upper	
82	100		
128	41.8	32.2	48.2
54	42.6	34.2	51.2



#25
Isophorone
Concen: 42.341 ng
RT: 7.30 min Scan# 886
Delta R.T. -0.26 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Tgt Ion	82	Resp	205192
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.4	8.0#
138	0.0	14.2	21.2#

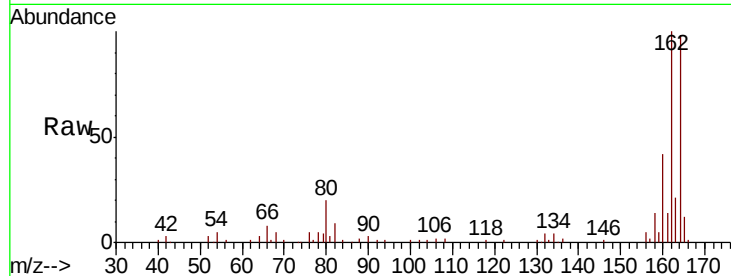




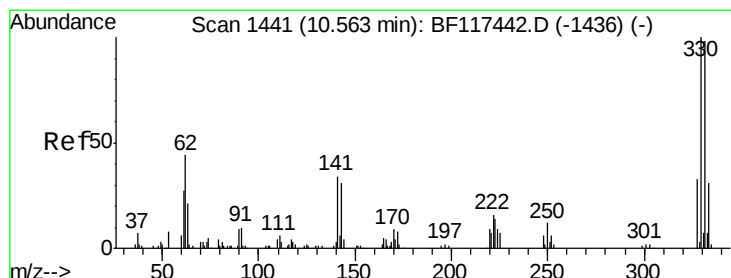
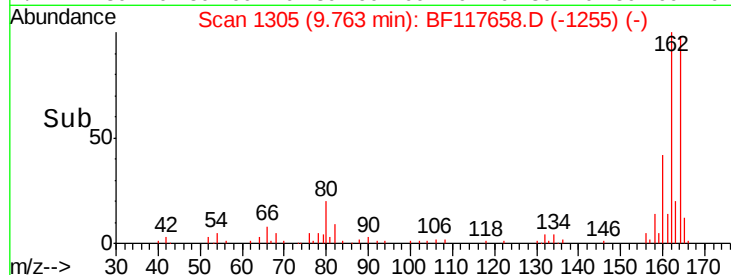
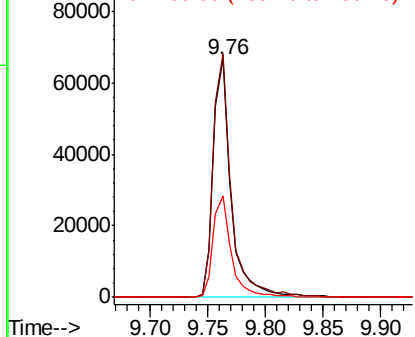
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 72096
Ion Ratio Lower Upper
164 100
162 102.2 81.8 122.6
160 42.7 34.4 51.6

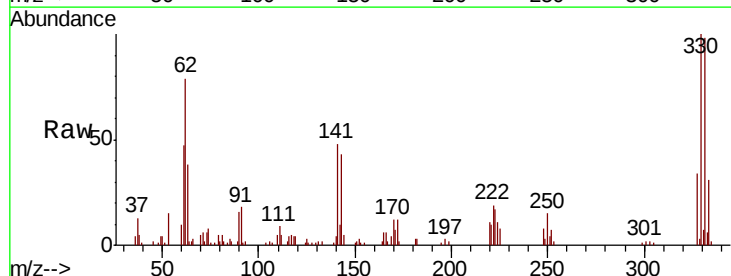


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

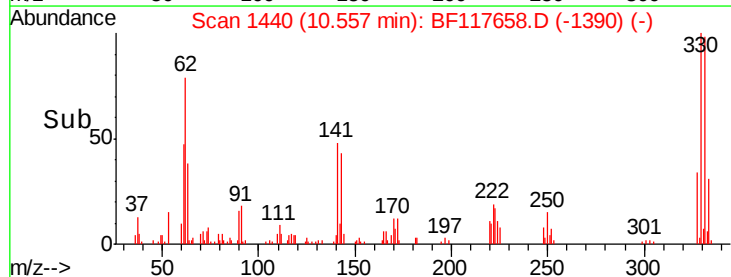
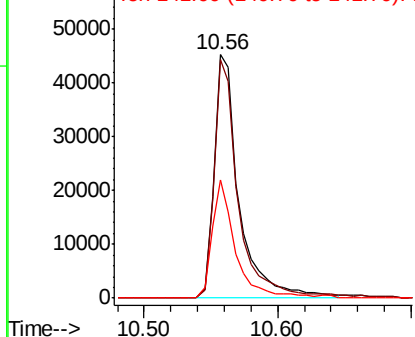


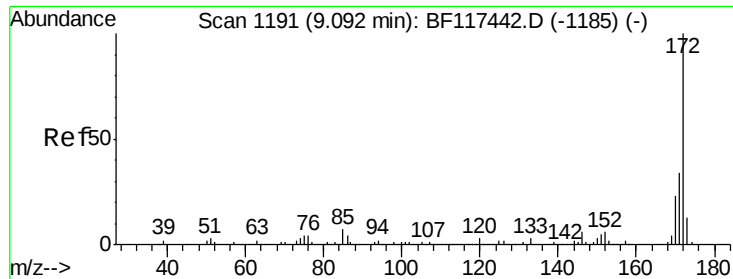
#42
2,4,6-Tribromophenol
Concen: 95.347 ng
RT: 10.56 min Scan# 1440
Delta R.T. -0.01 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Tgt Ion:330 Resp: 59479
Ion Ratio Lower Upper
330 100
332 96.6 78.5 117.7
141 45.8 37.0 55.6



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

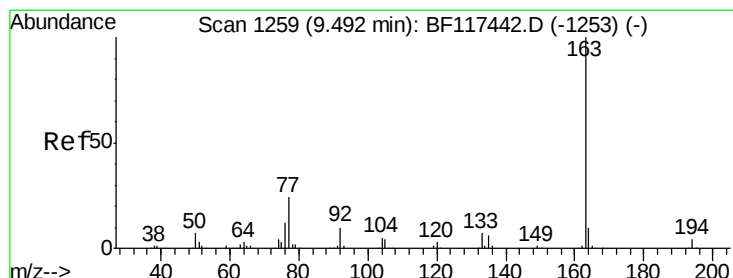
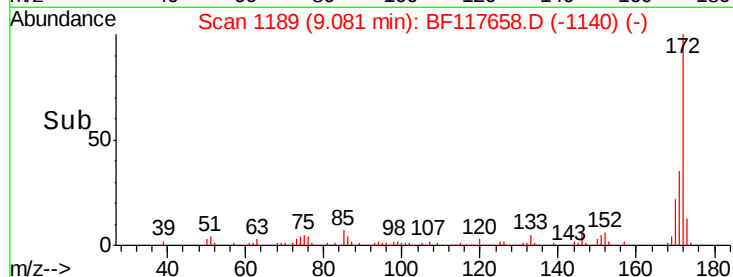
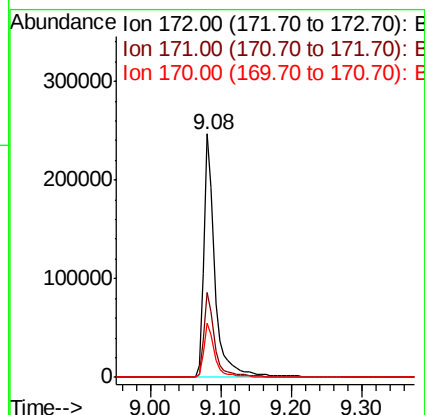
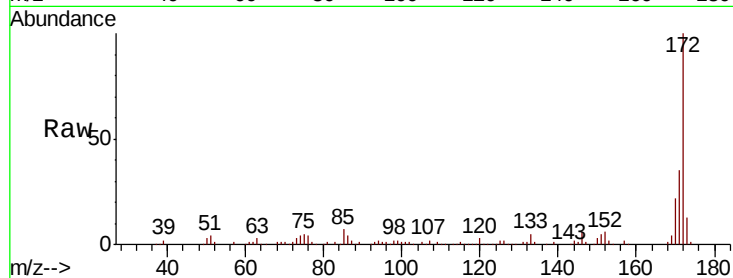




#45
2-Fluorobiphenyl
Concen: 53.966 ng
RT: 9.08 min Scan# 1189
Delta R.T. -0.01 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

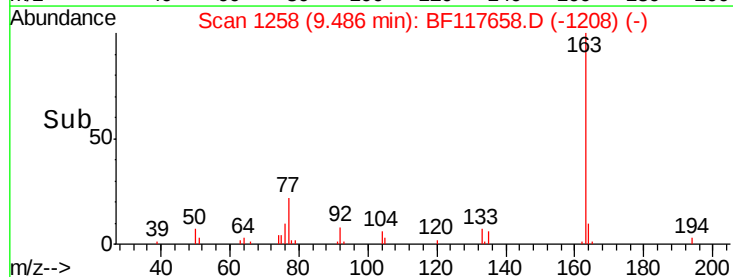
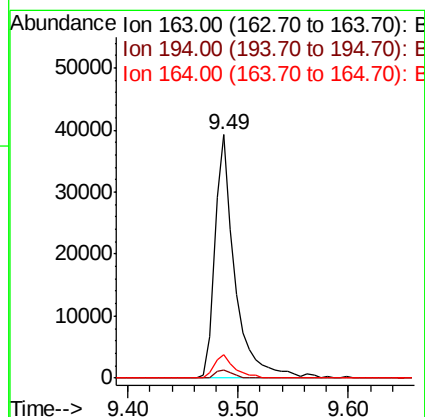
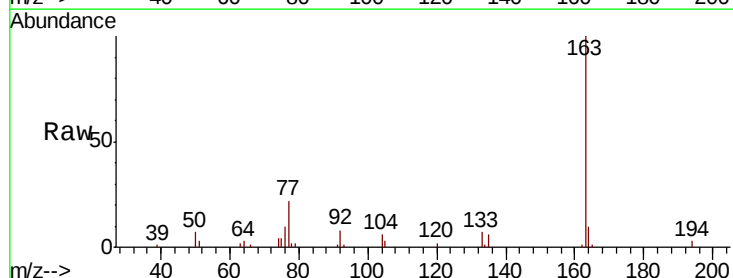
Instrument :
BNA_F
ClientSampleId :

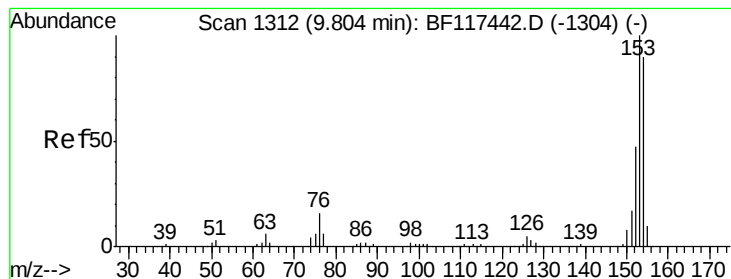
Tot Ion:172 Resp: 276136
Ion Ratio Lower Upper
172 100
171 35.0 27.5 41.3
170 22.4 18.6 27.8



#50
Dimethylphthalate
Concen: 9.473 ng
RT: 9.49 min Scan# 1258
Delta R.T. -0.01 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Tgt Ion:163 Resp: 48687
Ion Ratio Lower Upper
163 100
194 3.2 2.9 4.3
164 9.6 8.2 12.2





#52

Acenaphthene

Concen: 3.344 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF117658.D

Acq: 31 Oct 2019 15:17

Instrument :

BNA_F

ClientSampleId :

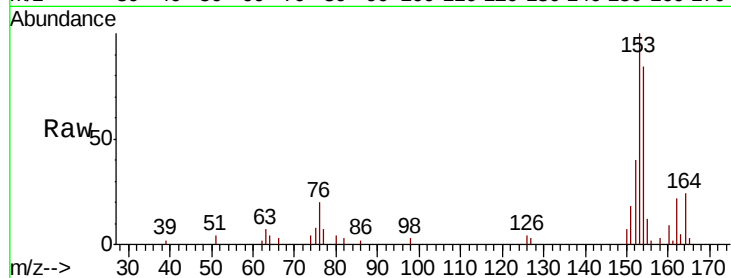
Tot Ion:154 Resp: 13560

Ion Ratio Lower Upper

154 100

153 119.1 89.2 133.8

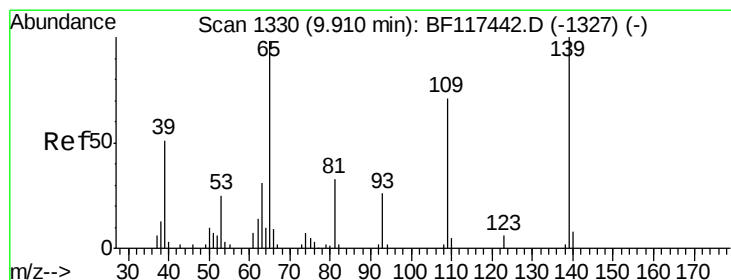
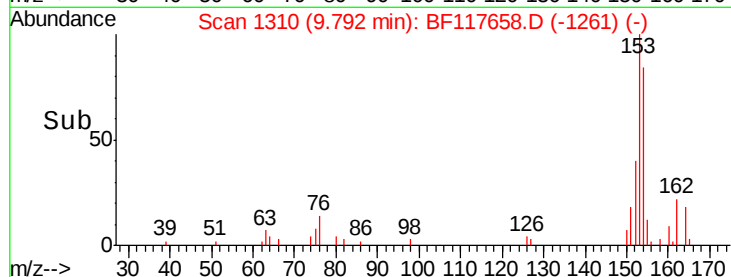
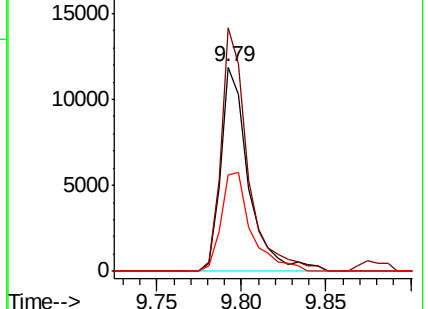
152 47.5 41.8 62.6



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#56

4-Nitrophenol

Concen: 9.559 ng

RT: 9.99 min Scan# 1343

Delta R.T. 0.08 min

Lab File: BF117658.D

Acq: 31 Oct 2019 15:17

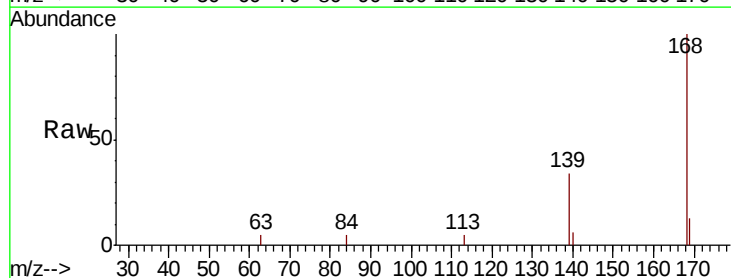
Tgt Ion:139 Resp: 3429

Ion Ratio Lower Upper

139 100

109 0.0 51.4 91.4#

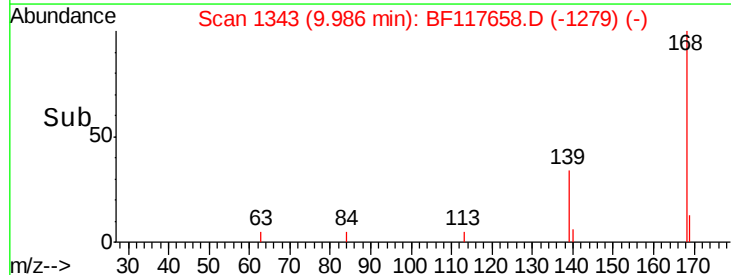
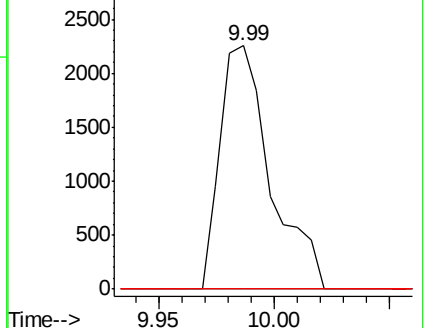
65 0.0 79.4 119.4#

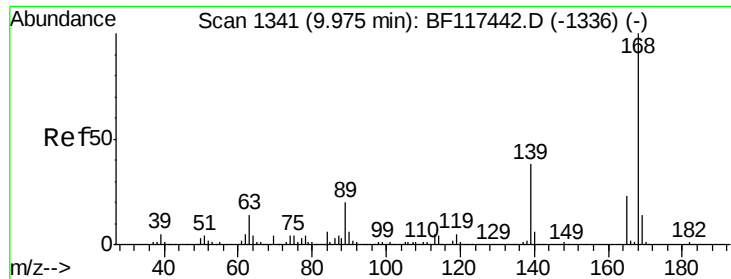


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

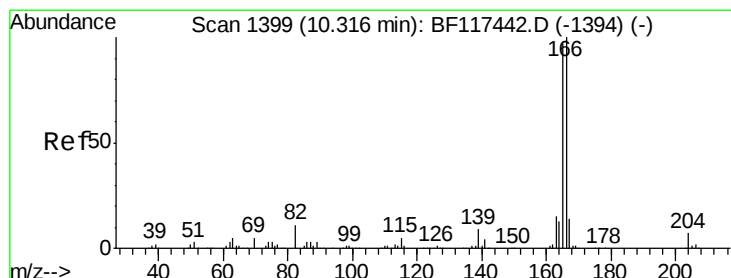
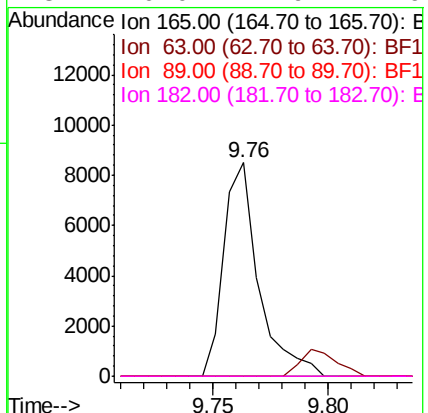
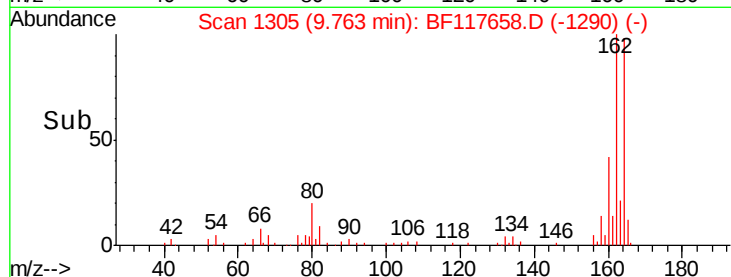
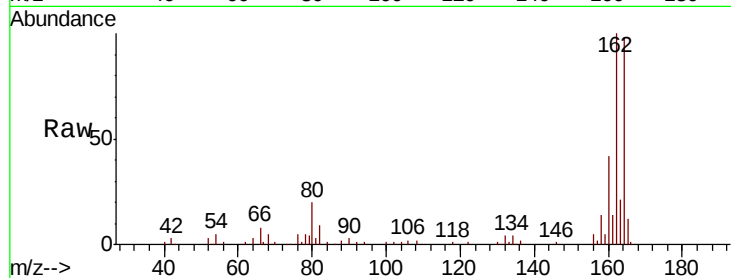




#57
2,4-Dinitrotoluene
Concen: 6.263 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.21 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

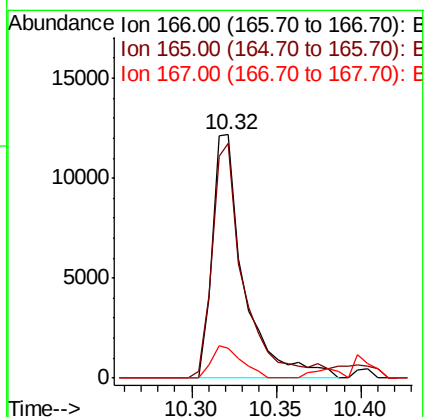
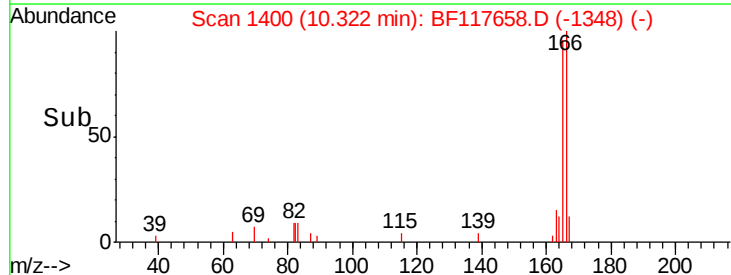
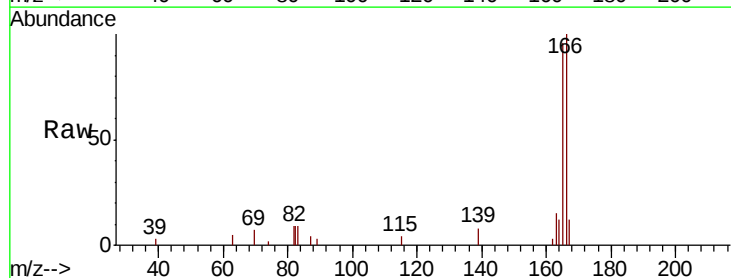
Instrument :
BNA_F
ClientSampleId :

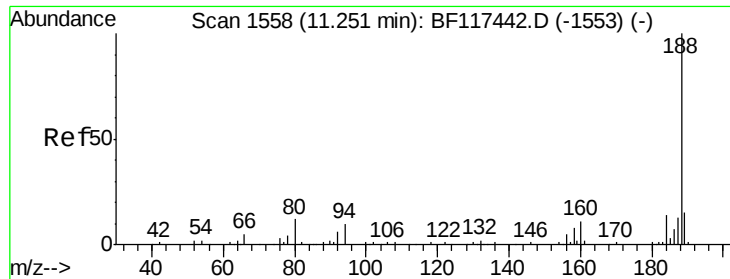
Tot Ion:165 Resp: 8930
Ion Ratio Lower Upper
165 100
63 0.0 51.4 77.0#
89 0.0 69.9 104.9#
182 0.0 1.9 2.9#



#58
Fluorene
Concen: 3.292 ng
RT: 10.32 min Scan# 1400
Delta R.T. 0.01 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Tgt Ion:166 Resp: 15994
Ion Ratio Lower Upper
166 100
165 96.3 77.6 116.4
167 12.1 11.0 16.4

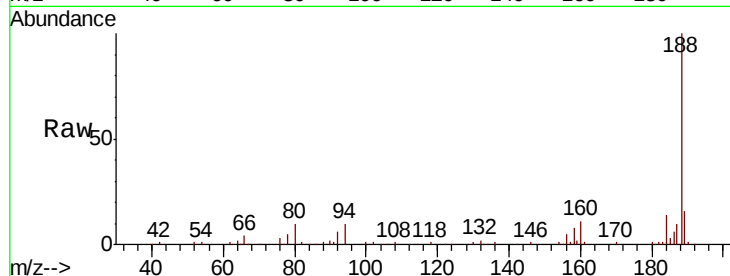




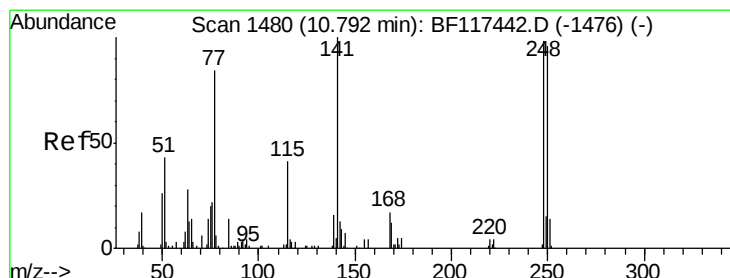
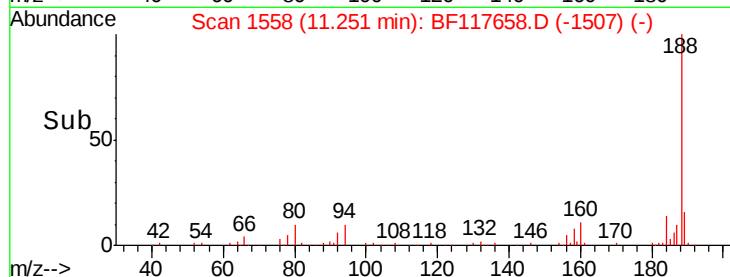
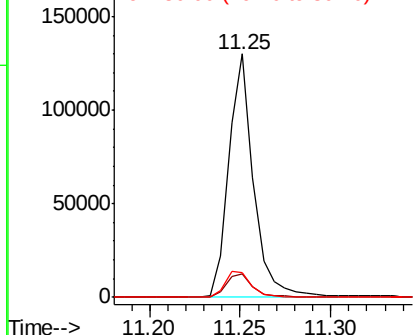
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.25 min Scan# 1558
Delta R.T. 0.00 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.0	12.0
80	10.2	9.5	14.3

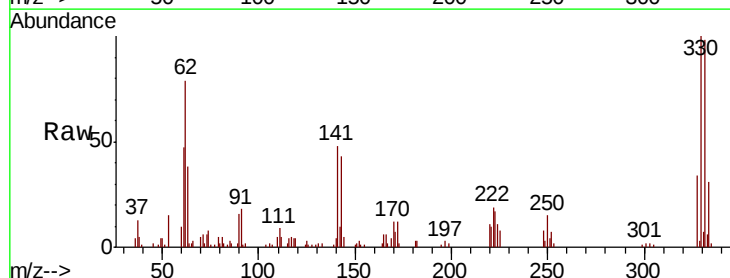


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

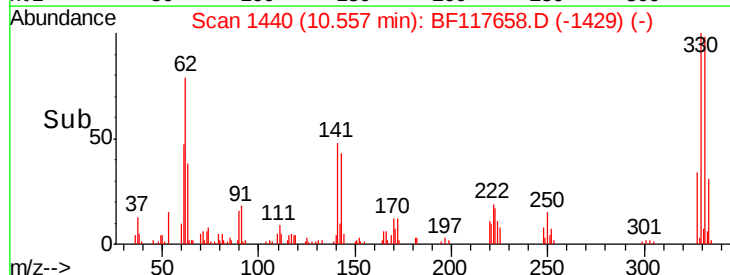
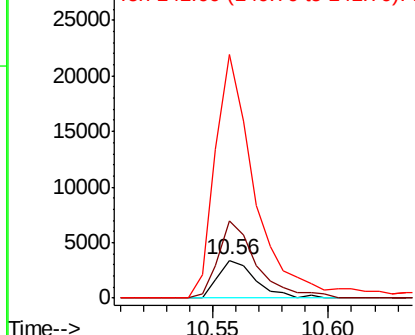


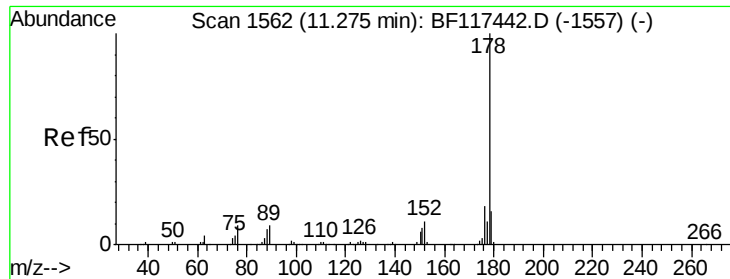
#67
4-Bromophenyl-phenylether
Concen: 2.848 ng
RT: 10.56 min Scan# 1440
Delta R.T. -0.24 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Tgt Ion	Ratio	Lower	Upper
248	100		
250	203.4	78.0	117.0#
141	640.7	81.7	122.5#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

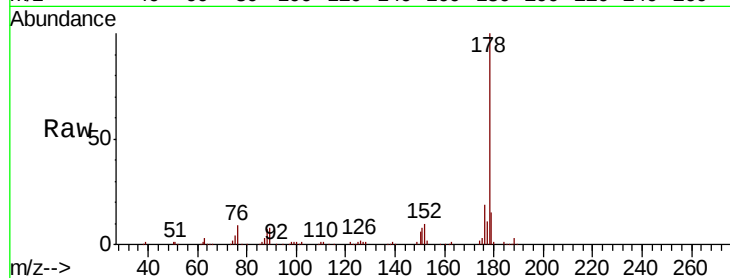




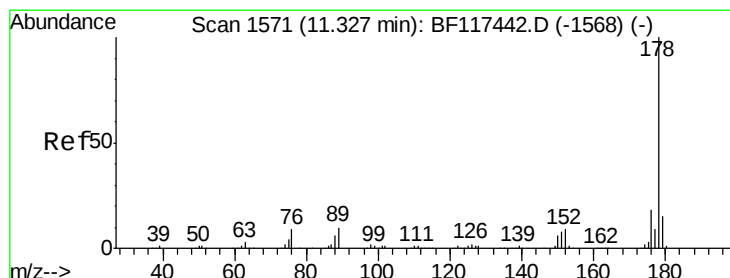
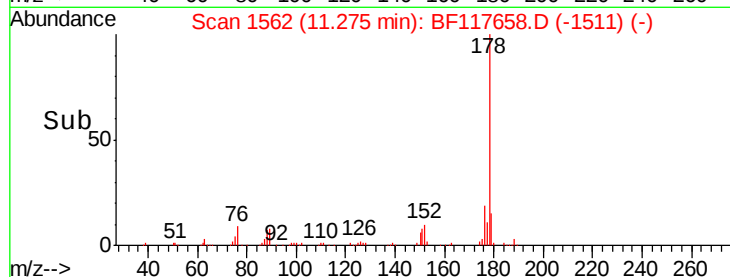
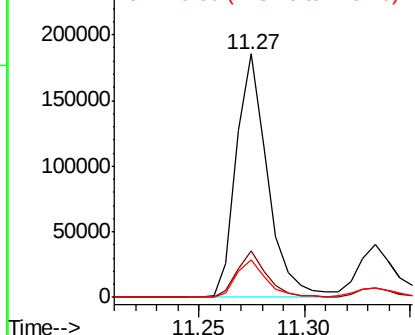
#71
Phenanthrene
Concen: 26.563 ng
RT: 11.27 min Scan# 1562
Delta R.T. 0.00 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Instrument :
BNA_F
ClientSampled :

Tot Ion:178 Resp: 191188
Ion Ratio Lower Upper
178 100
176 18.9 14.6 22.0
179 15.5 12.6 19.0

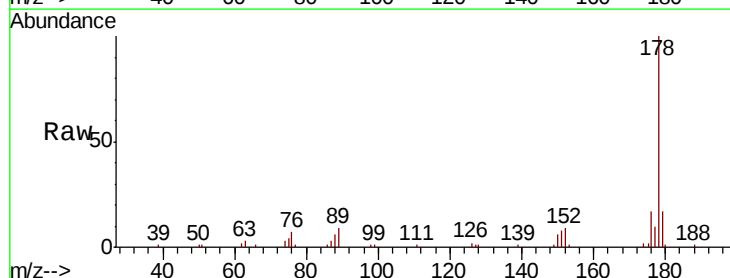


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

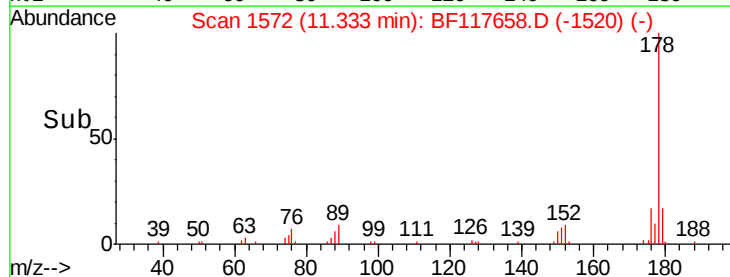
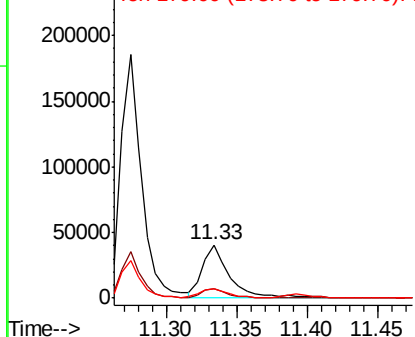


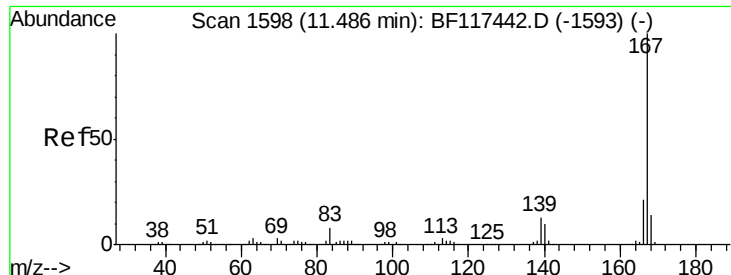
#72
Anthracene
Concen: 7.262 ng
RT: 11.33 min Scan# 1572
Delta R.T. 0.01 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Tgt Ion:178 Resp: 53634
Ion Ratio Lower Upper
178 100
176 16.7 14.7 22.1
179 16.5 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

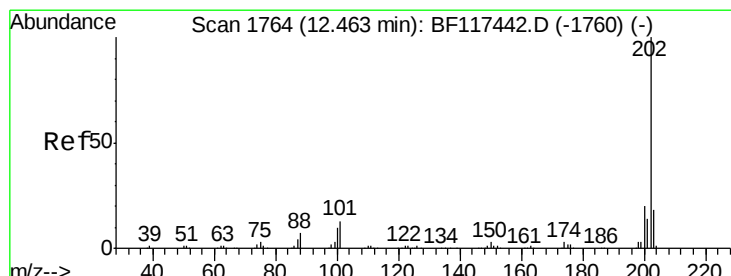
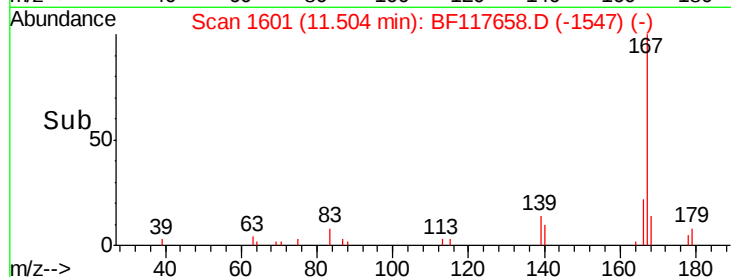
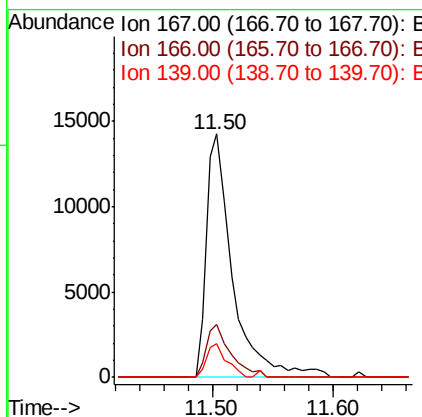
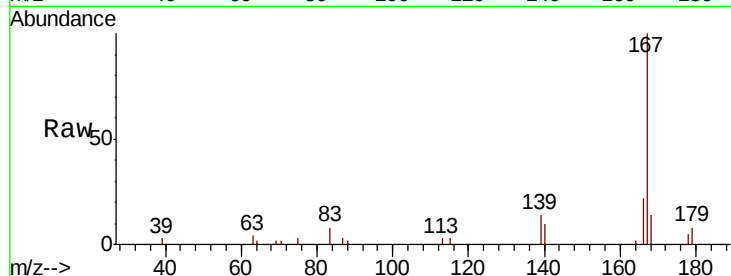




#73
 Carbazole
 Concen: 3.163 ng
 RT: 11.50 min Scan# 1601
 Delta R.T. 0.02 min
 Lab File: BF117658.D
 Acq: 31 Oct 2019 15:17

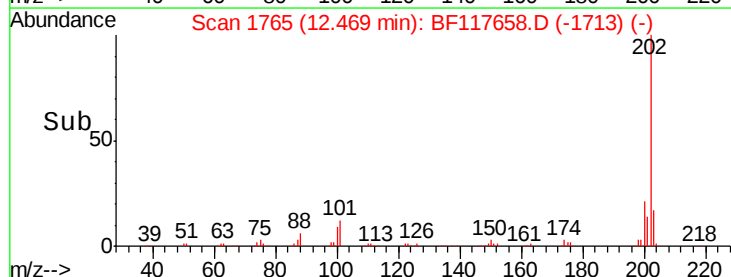
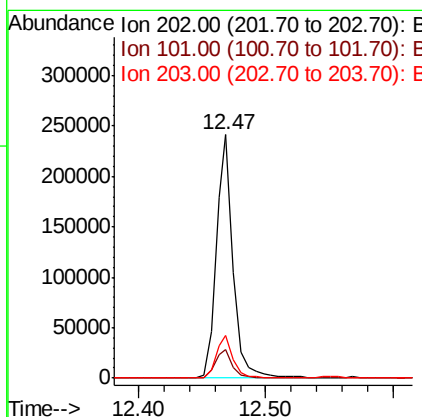
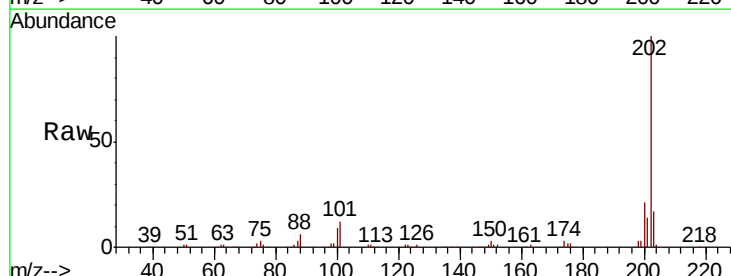
Instrument :
 BNA_F
 ClientSampleId :

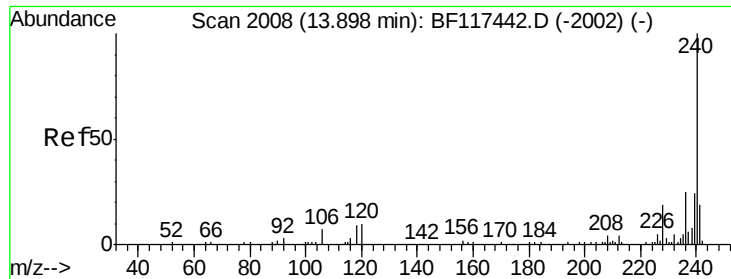
Tot Ion:167 Resp: 21348
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.0 25.6
 139 13.6 10.6 16.0



#75
 Fluoranthene
 Concen: 31.142 ng
 RT: 12.47 min Scan# 1765
 Delta R.T. 0.01 min
 Lab File: BF117658.D
 Acq: 31 Oct 2019 15:17

Tgt Ion:202 Resp: 224390
 Ion Ratio Lower Upper
 202 100
 101 11.8 0.0 32.7
 203 17.3 0.0 37.6

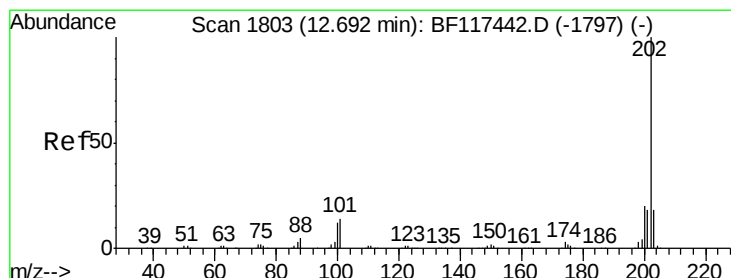
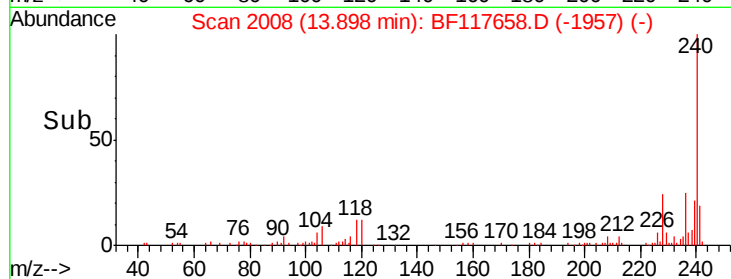
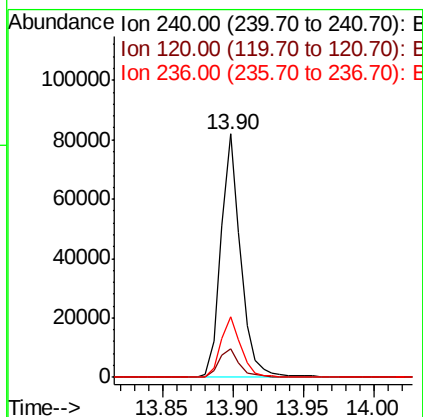
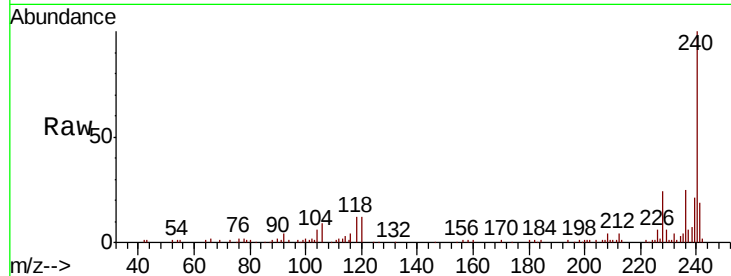




#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.90 min Scan# 2008
 Delta R.T. 0.00 min
 Lab File: BF117658.D
 Acq: 31 Oct 2019 15:17

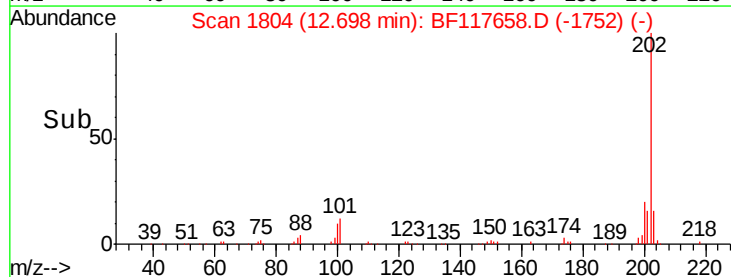
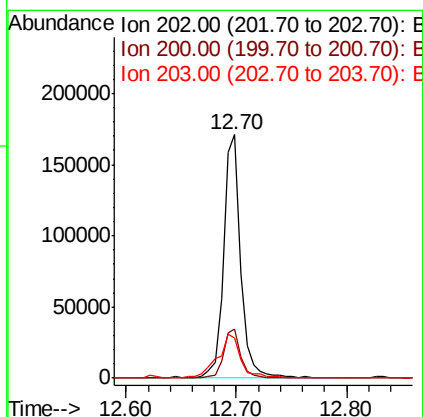
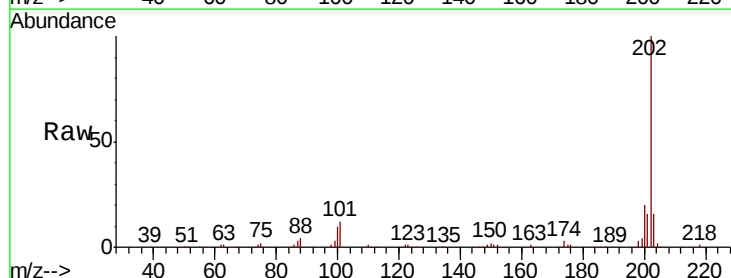
Instrument :
 BNA_F
 ClientSampleID :

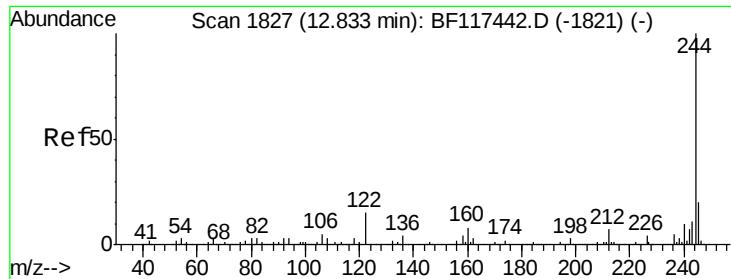
Tot Ion:240 Resp: 79289
 Ion Ratio Lower Upper
 240 100
 120 11.8 8.4 12.6
 236 24.9 20.0 30.0



#78
 Pyrene
 Concen: 26.882 ng
 RT: 12.70 min Scan# 1804
 Delta R.T. 0.01 min
 Lab File: BF117658.D
 Acq: 31 Oct 2019 15:17

Tgt Ion:202 Resp: 183080
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.2 24.2
 203 16.3 14.0 21.0

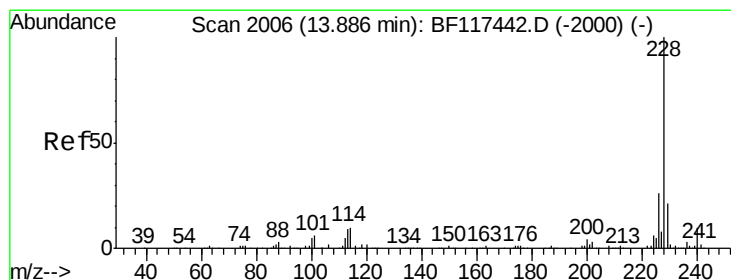
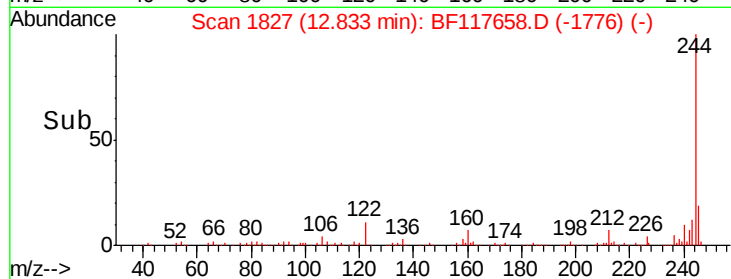
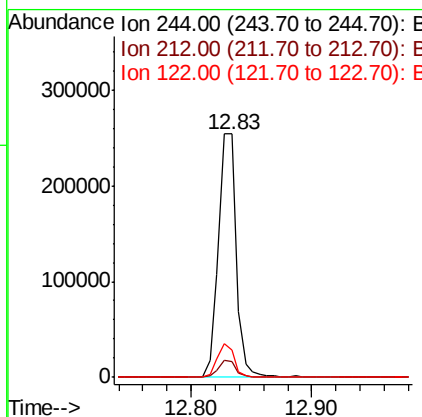
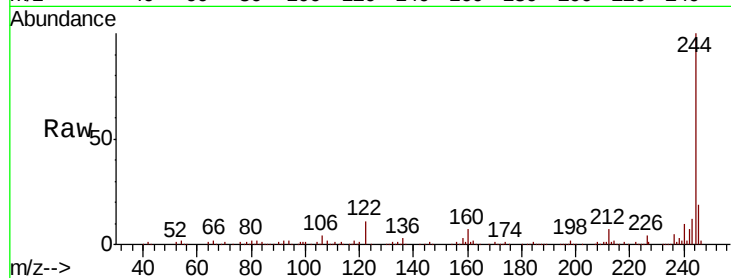




#79
 Terphenyl-d14
 Concen: 53.361 ng
 RT: 12.83 min Scan# 1827
 Delta R.T. 0.00 min
 Lab File: BF117658.D
 Acq: 31 Oct 2019 15:17

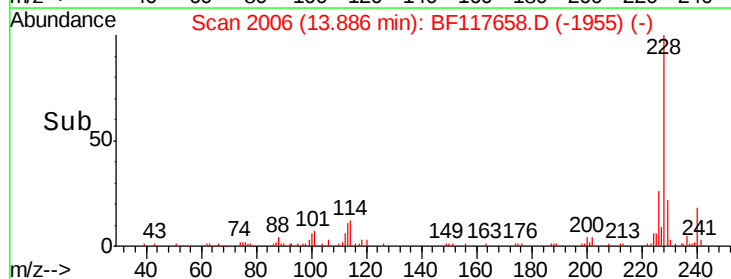
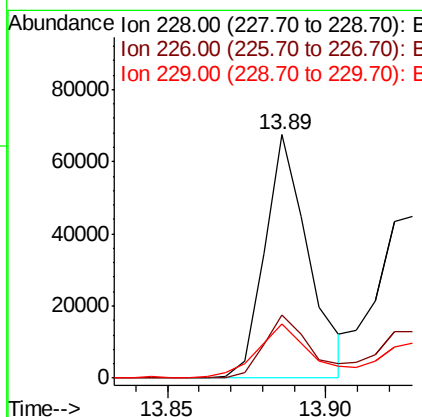
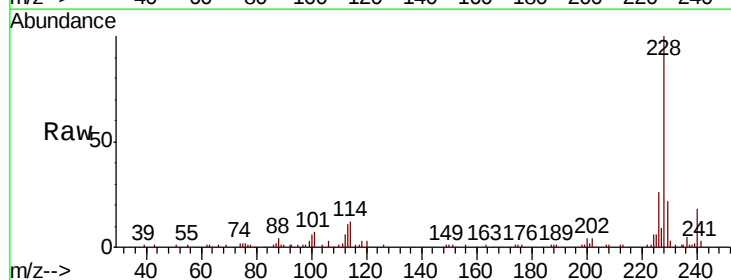
Instrument :
 BNA_F
 ClientSampleId :

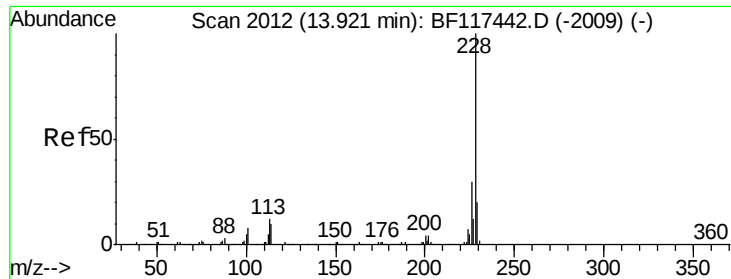
Tot Ion:244 Resp: 259388
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.8 8.6
 122 11.3 11.8 17.8#



#81
 Benzo(a)anthracene
 Concen: 12.133 ng
 RT: 13.89 min Scan# 2006
 Delta R.T. 0.00 min
 Lab File: BF117658.D
 Acq: 31 Oct 2019 15:17

Tgt Ion:228 Resp: 64893
 Ion Ratio Lower Upper
 228 100
 226 26.1 21.0 31.4
 229 22.1 16.4 24.6

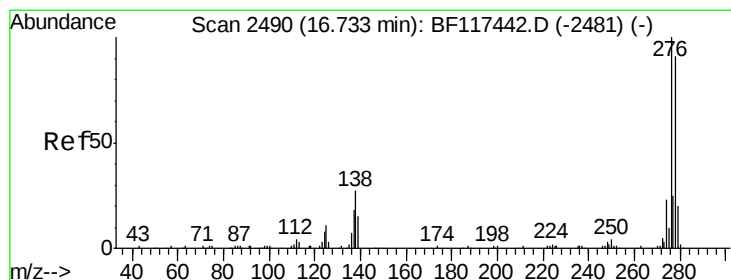
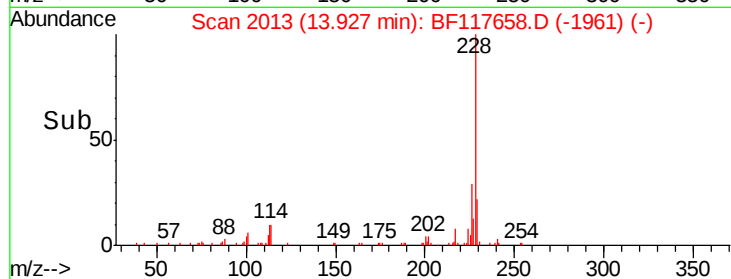
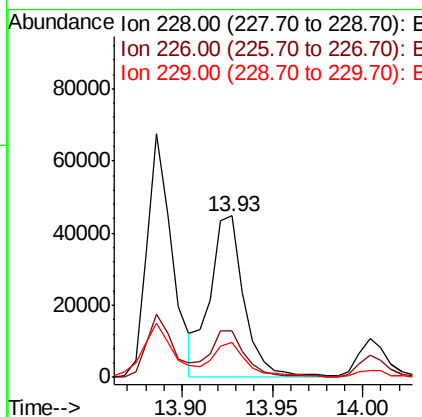
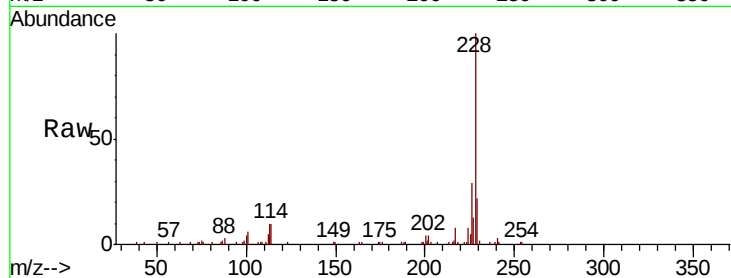




#83
 Chrysene
 Concen: 11.155 ng
 RT: 13.93 min Scan# 2013
 Delta R.T. 0.01 min
 Lab File: BF117658.D
 Acq: 31 Oct 2019 15:17

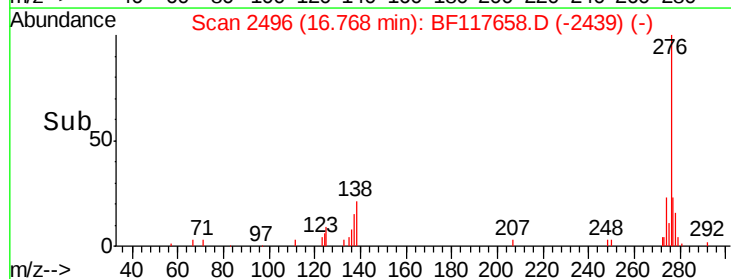
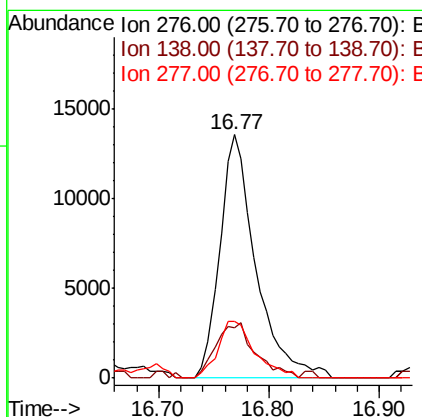
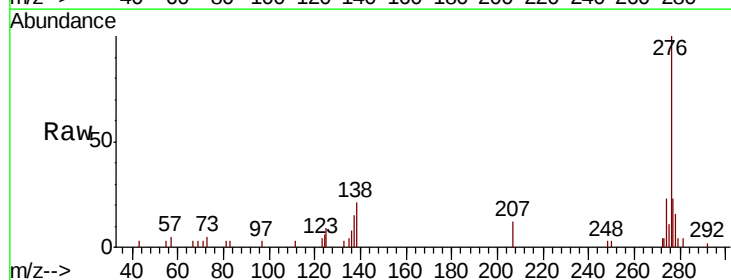
Instrument :
 BNA_F
 ClientSampled :

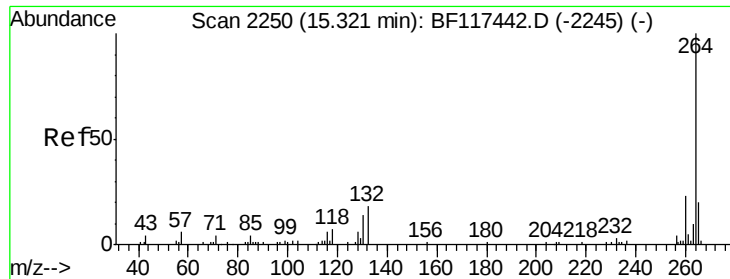
Tot Ion:228 Resp: 58472
 Ion Ratio Lower Upper
 228 100
 226 29.1 23.9 35.9
 229 21.8 15.8 23.6



#86
 Indeno(1,2,3-cd)pyrene
 Concen: 7.893 ng
 RT: 16.77 min Scan# 2496
 Delta R.T. 0.04 min
 Lab File: BF117658.D
 Acq: 31 Oct 2019 15:17

Tgt Ion:276 Resp: 30888
 Ion Ratio Lower Upper
 276 100
 138 24.6 21.8 32.8
 277 24.2 20.0 30.0



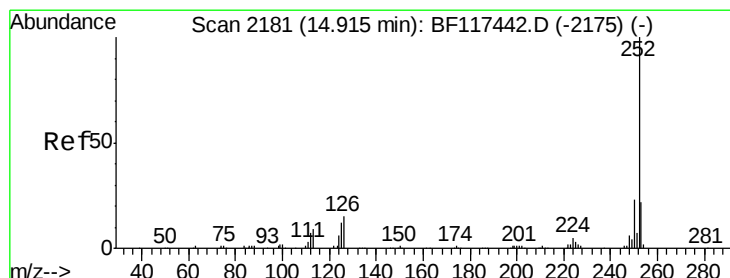
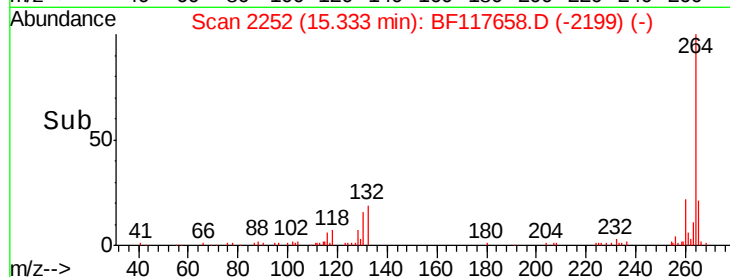
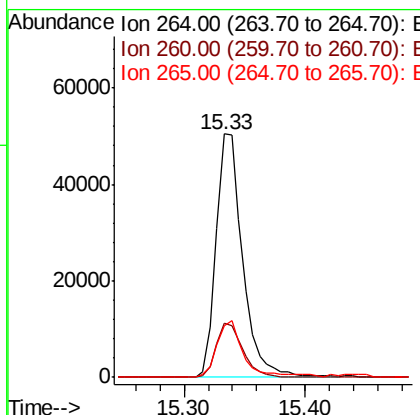
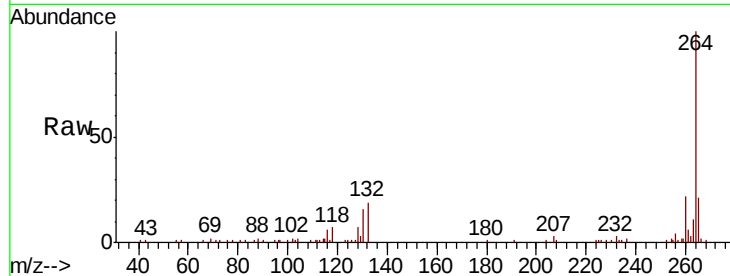


#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.33 min Scan# 2252
Delta R.T. 0.01 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 76483

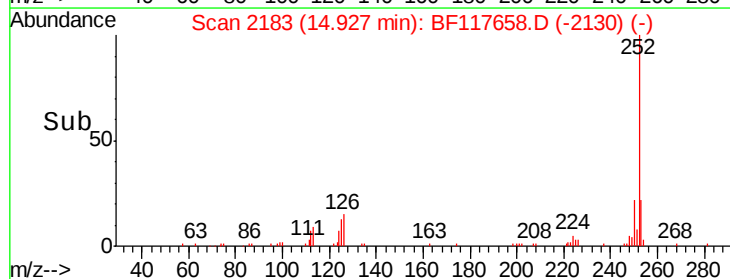
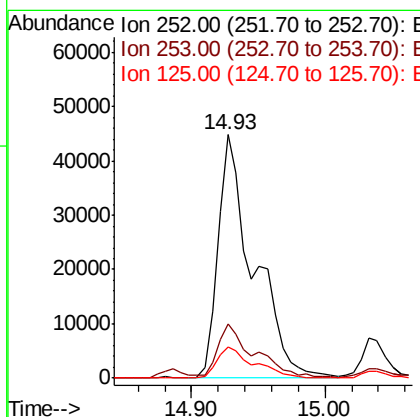
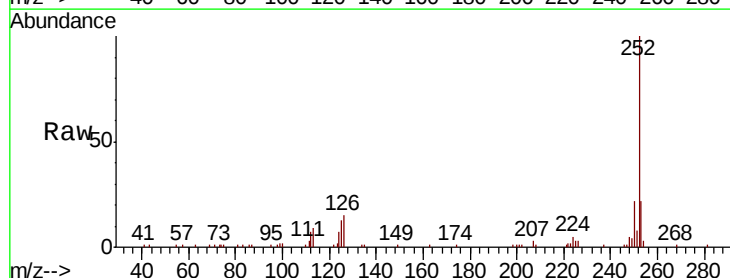
Ion	Ratio	Lower	Upper
264	100		
260	22.5	18.4	27.6
265	21.2	16.1	24.1

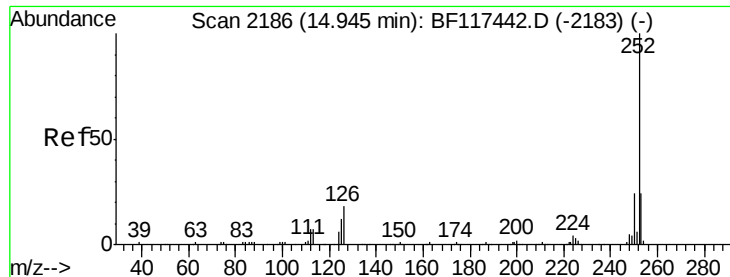


#88
Benzo(b)fluoranthene
Concen: 18.420 ng
RT: 14.93 min Scan# 2183
Delta R.T. 0.01 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Tgt Ion:252 Resp: 83193

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.6
125	12.7	9.9	14.9

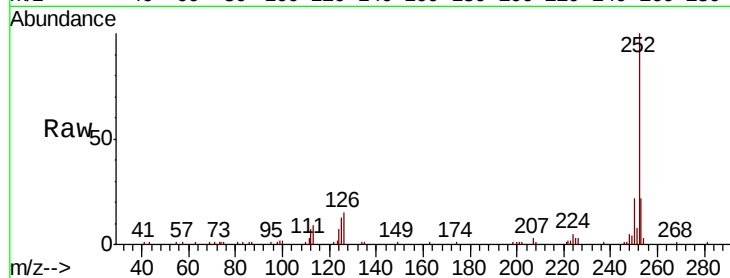




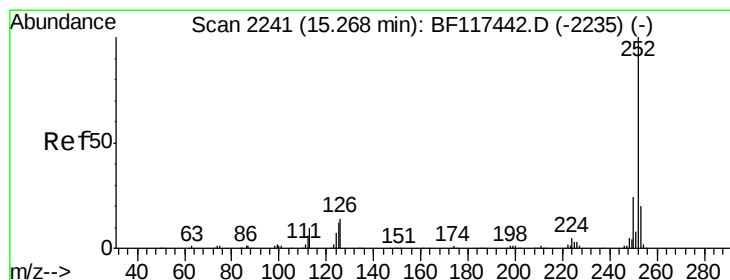
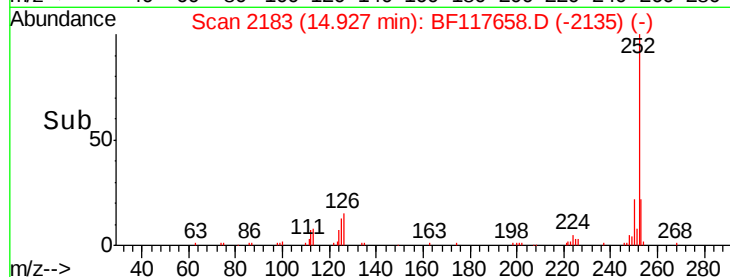
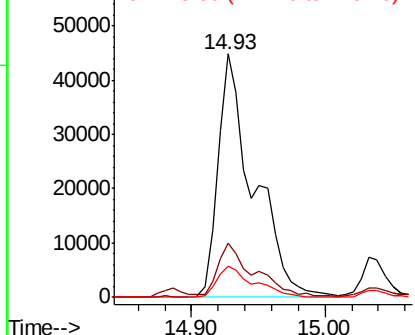
#89
Benzo(k)fluoranthene
Concen: 17.972 ng
RT: 14.93 min Scan# 2183
Delta R.T. -0.02 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 83193
Ion Ratio Lower Upper
252 100
253 22.3 18.0 27.0
125 12.7 8.9 13.3

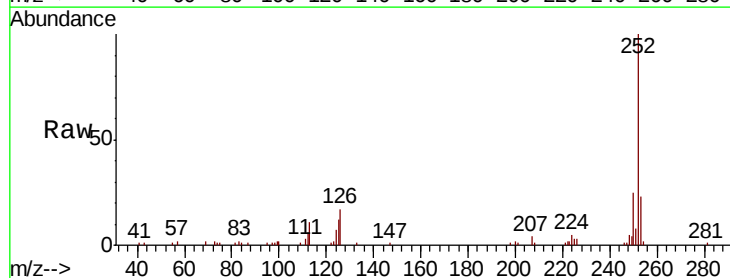


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

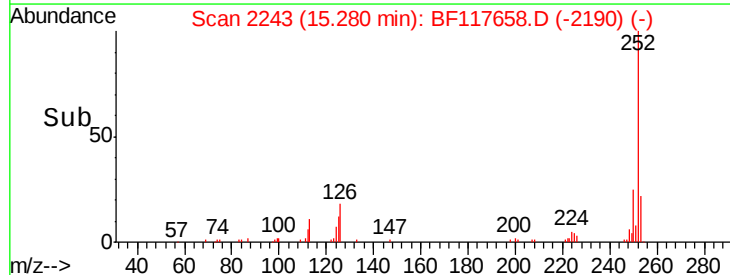
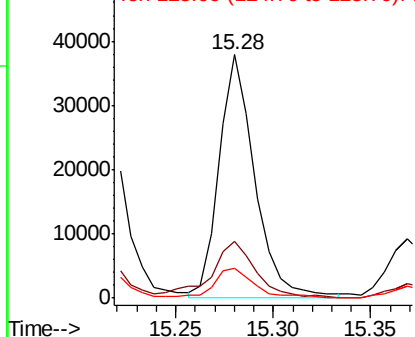


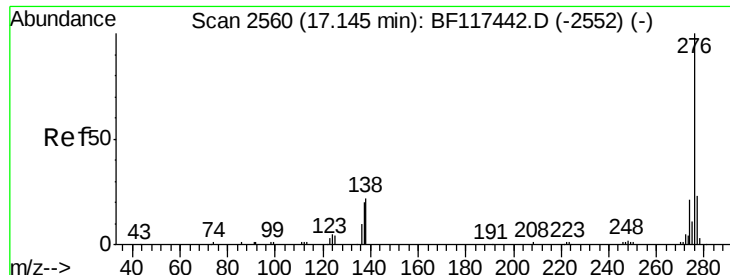
#90
Benzo(a)pyrene
Concen: 11.763 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF117658.D
Acq: 31 Oct 2019 15:17

Tgt Ion:252 Resp: 48301
Ion Ratio Lower Upper
252 100
253 23.5 16.3 24.5
125 12.4 9.2 13.8



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(a,h,i)perylene

Concen: 9.043 ng

RT: 17.19 min Scan# 2568

Delta R.T. 0.05 min

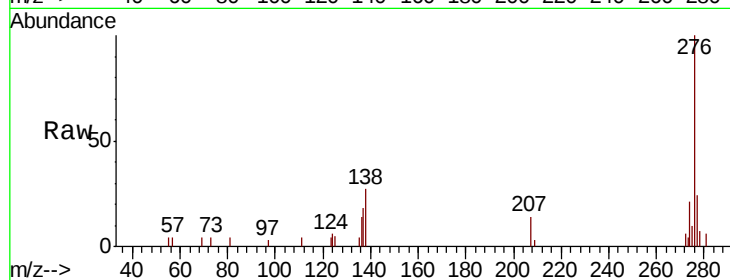
Lab File: BF117658.D

Acq: 31 Oct 2019 15:17

Instrument :

BNA_F

ClientSampleId :



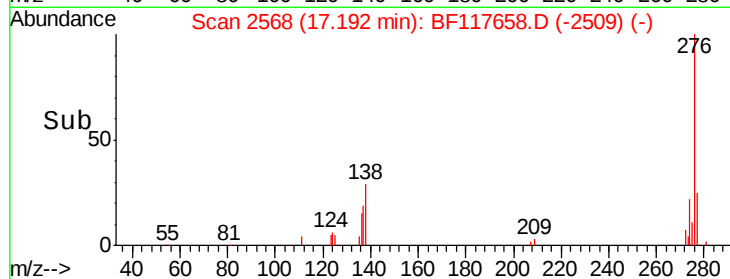
Tot Ion: 276 Resp: 30381

Ion Ratio Lower Upper

276 100

277 23.6 18.4 27.6

138 27.1 17.8 26.6



Abundance Ion 276.00 (275.70 to 276.70): E

15000 Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

