

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111219\
 Data File : BF117755.D
 Acq On : 12 Nov 2019 12:32
 Operator : JU
 Sample : K5777-05DL 5X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 12 13:39:06 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 12 13:32:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.92	152	281257	20.00	ng	0.00
21) Naphthalene-d8	8.21	136	1056871	20.00	ng	0.00
39) Acenaphthene-d10	9.97	164	534731	20.00	ng	0.00
64) Phenanthrene-d10	11.47	188	889657	20.00	ng	0.00
76) Chrysene-d12	14.12	240	577950	20.00	ng	0.00
87) Perylene-d12	15.63	264	773076	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.53	112	332207	21.38	ng	-0.01
7) Phenol-d6	6.53	99	430597	22.48	ng	-0.01
23) Nitrobenzene-d5	7.48	82	234248	13.09	ng	-0.01
42) 2,4,6-Tribromophenol	10.76	330	95085	18.18	ng	0.00
45) 2-Fluorobiphenyl	9.29	172	362298	13.37	ng	0.00
79) Terphenyl-d14	13.05	244	296639	10.57	ng	-0.01

Target Compounds

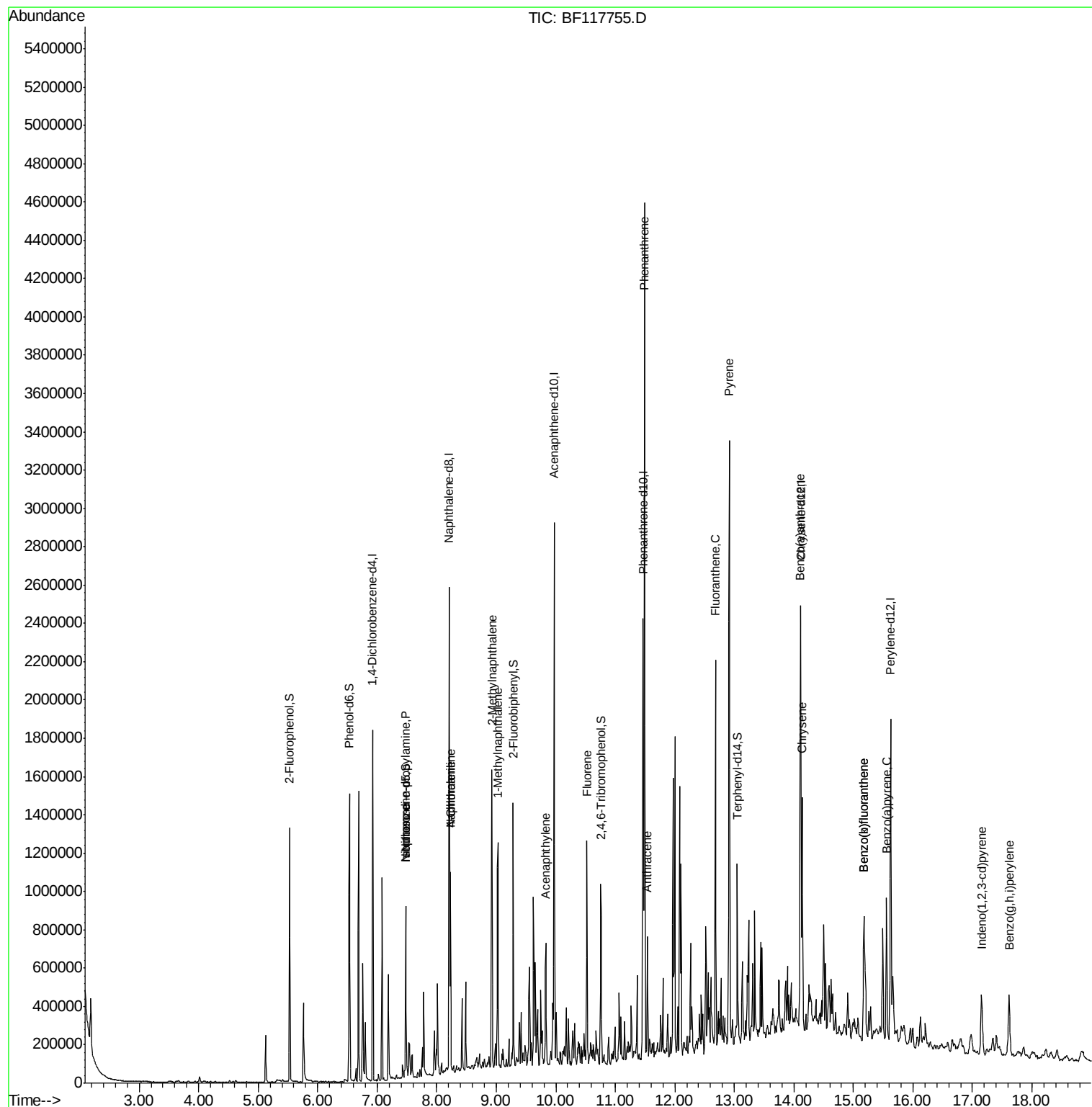
						Qvalue
19) n-Nitroso-di-n-propylamine	7.48	70	30505	2.422	ng	# 78
25) Isophorone	7.48	82	234245	6.842	ng	# 62
31) Naphthalene	8.23	128	395234	8.182	ng	98
33) 4-Chloroaniline	8.23	127	53208	2.370	ng	# 36
37) 2-Methylnaphthalene	8.93	142	381414	11.598	ng	99
38) 1-Methylnaphthalene	9.03	142	300967	9.637	ng	100
49) Acenaphthylene	9.83	152	202177	4.467	ng	97
58) Fluorene	10.52	166	273730	9.088	ng	100
71) Phenanthrene	11.49	178	1546554	36.268	ng	99
72) Anthracene	11.54	178	221381	5.218	ng	96
75) Fluoranthene	12.69	202	748274	17.185	ng	97
78) Pyrene	12.92	202	1156276	27.407	ng	97
81) Benzo(a)anthracene	14.10	228	482600	13.415	ng	93
83) Chrysene	14.14	228	442134	12.445	ng	99
86) Indeno(1,2,3-cd)pyrene	17.15	276	219266	6.631	ng	96
88) Benzo(b)fluoranthene	15.18	252	532570	10.938	ng	97
89) Benzo(k)fluoranthene	15.18	252	532570	12.264	ng	97
90) Benzo(a)pyrene	15.56	252	337104	7.987	ng	99
92) Benzo(a,h,i)perylene	17.62	276	251244	6.849	ng	98

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

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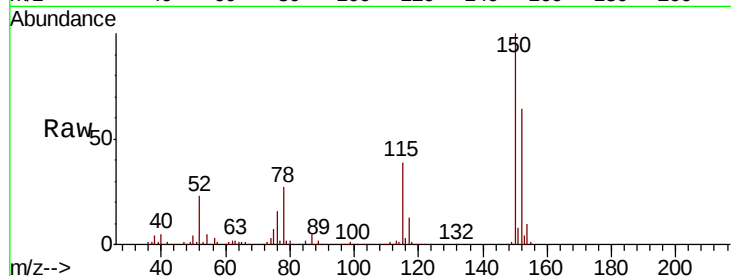


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.92 min Scan# 822
Delta R.T. -0.01 min
Lab File: BF117755.D
Acq: 12 Nov 2019 12:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.6	126.6	190.0
115	60.9	47.6	71.4

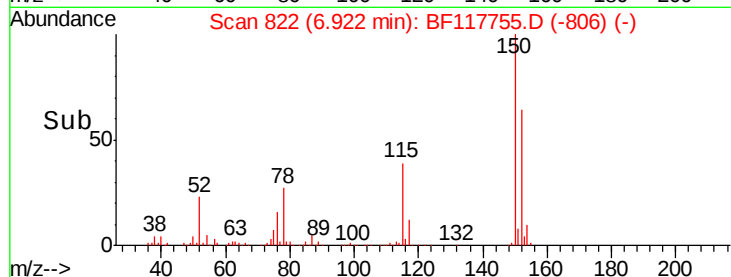
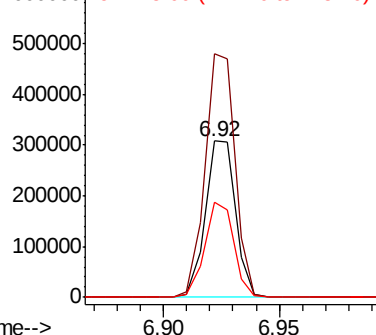


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

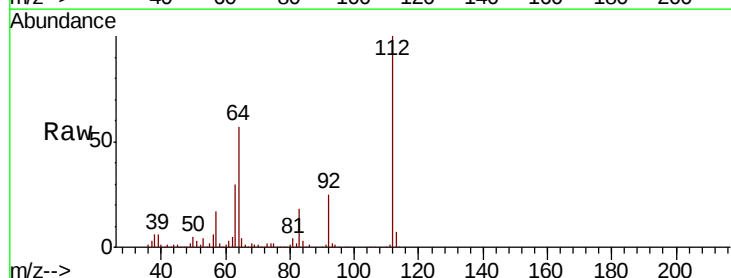
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 21.381 ng
RT: 5.53 min Scan# 585
Delta R.T. -0.01 min
Lab File: BF117755.D
Acq: 12 Nov 2019 12:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.4	43.5	65.3
63	29.8	23.5	35.3

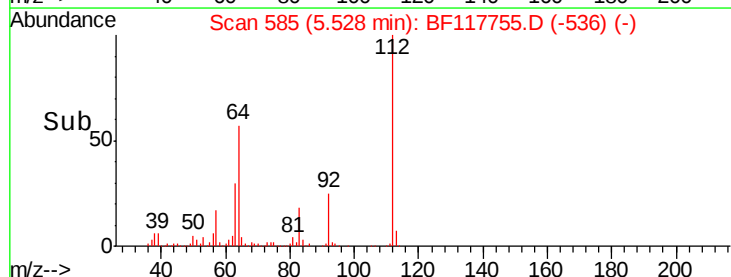
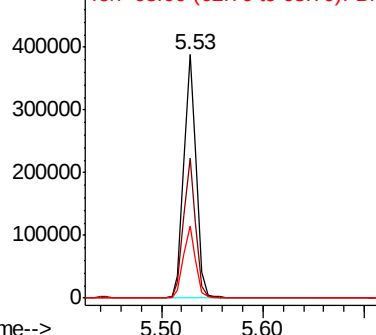


Abundance

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: 22.476 ng

RT: 6.53 min Scan# 756

Delta R.T. -0.01 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

Instrument :

BNA_F

ClientSampleId :

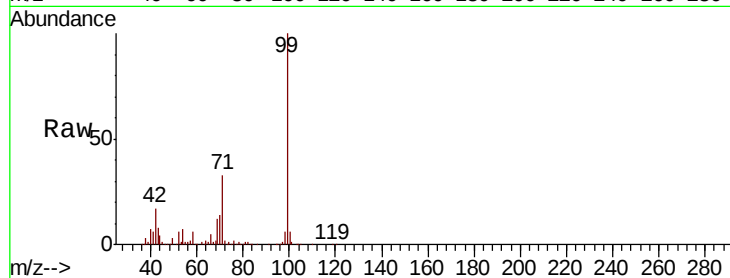
Tot Ion: 99 Resp: 430597

Ion Ratio Lower Upper

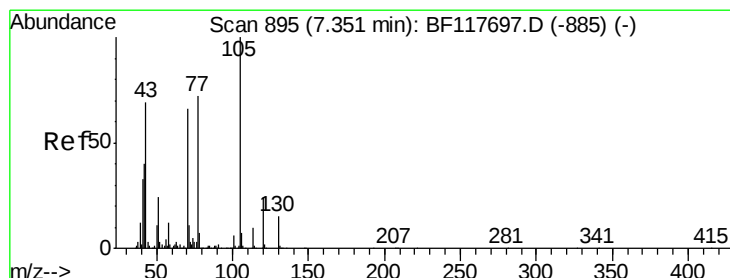
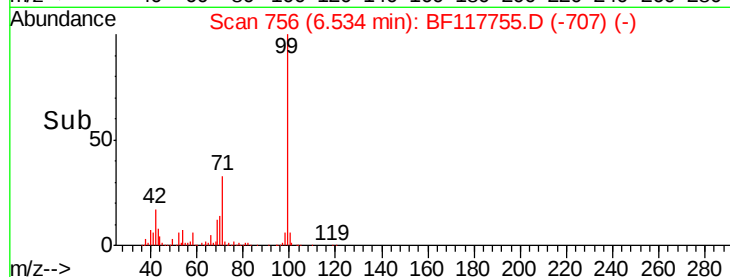
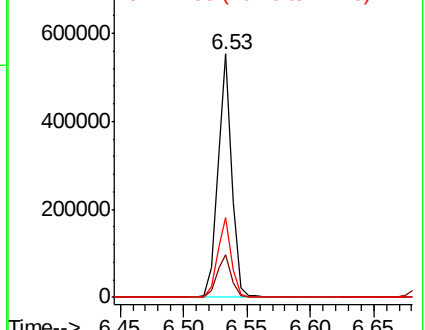
99 100

42 17.4 15.3 22.9

71 33.0 28.2 42.2



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.422 ng

RT: 7.48 min Scan# 917

Delta R.T. 0.14 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

Tgt Ion: 70 Resp: 30505

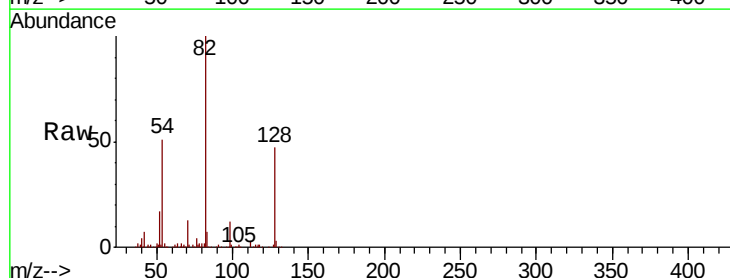
Ion Ratio Lower Upper

70 100

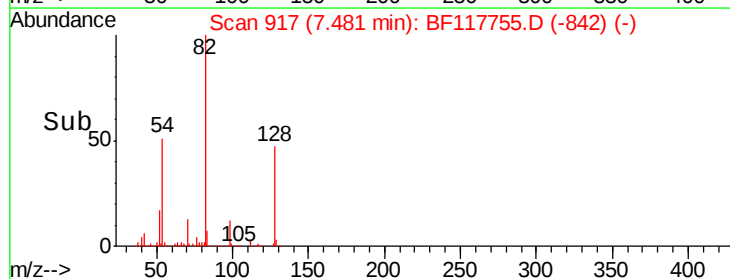
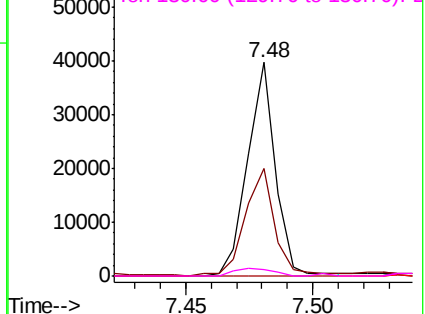
42 50.1 48.7 73.1

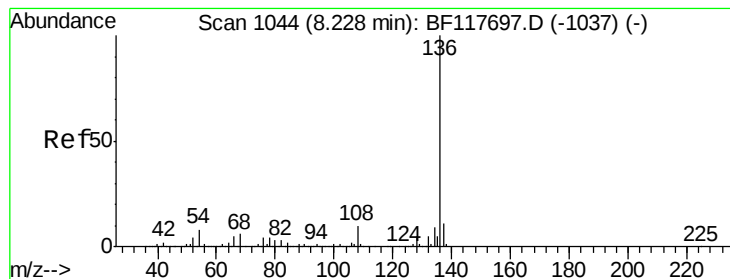
101 0.0 8.4 12.6#

130 3.0 18.4 27.6#



Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): BF1
Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.21 min Scan# 1041

Delta R.T. -0.01 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 1056871

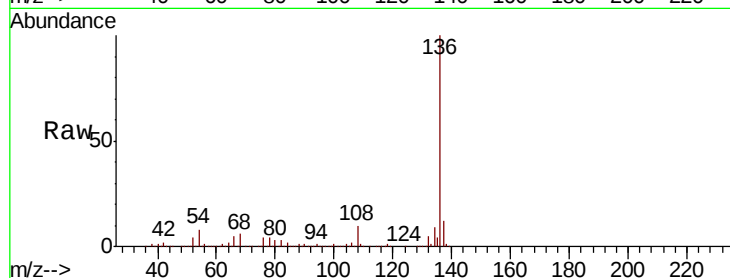
Ion Ratio Lower Upper

136 100

137 11.6 9.0 13.6

54 8.0 6.1 9.1

68 6.0 4.6 7.0

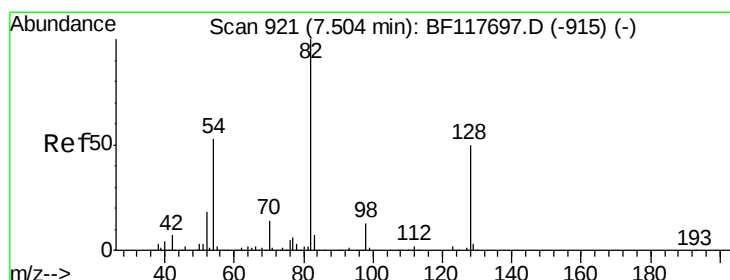
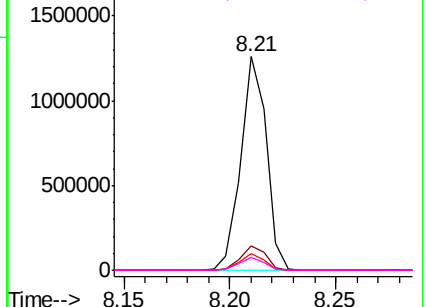
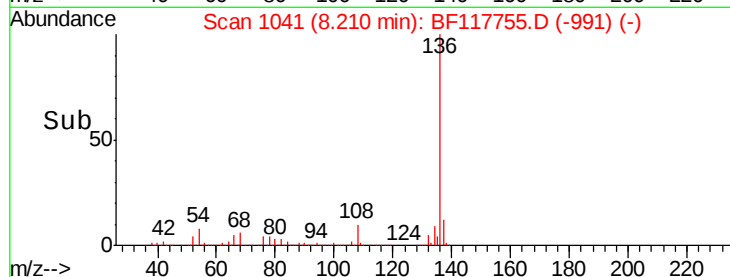


Abundance Ion 136.00 (135.70 to 136.70): E

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: 13.086 ng

RT: 7.48 min Scan# 917

Delta R.T. -0.01 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

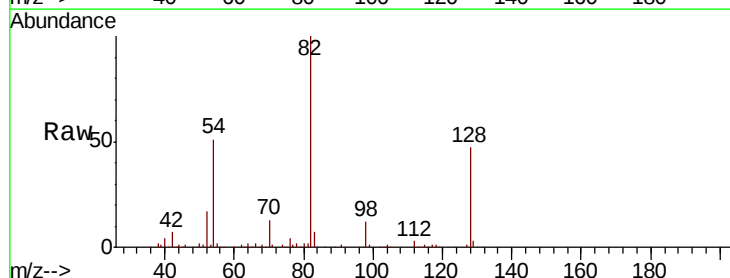
Tgt Ion: 82 Resp: 234248

Ion Ratio Lower Upper

82 100

128 46.9 38.7 58.1

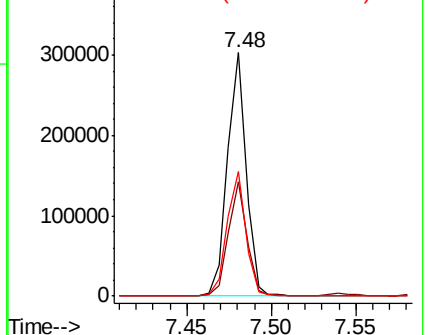
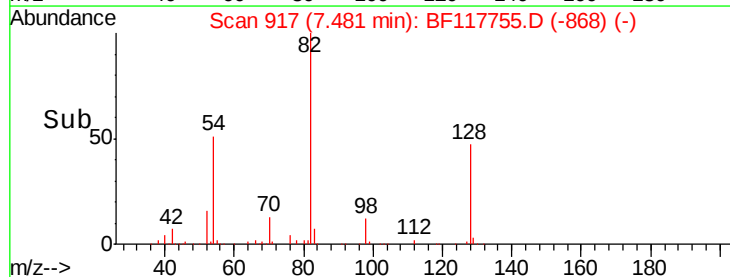
54 51.1 41.4 62.2

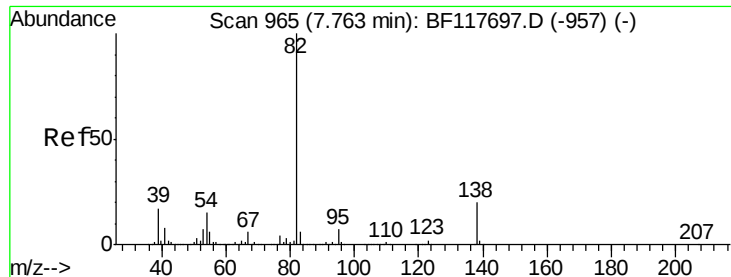


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 6.842 ng

RT: 7.48 min Scan# 917

Delta R.T. -0.27 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

Instrument :

BNA_F

ClientSampleId :

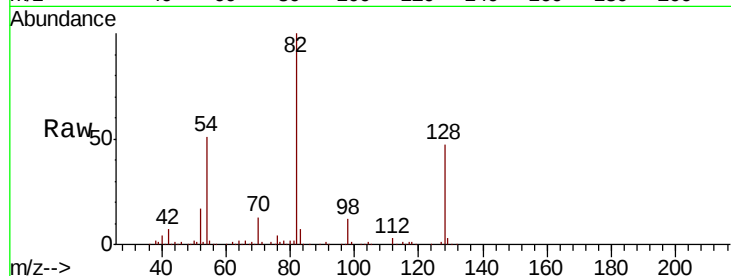
Tot Ion: 82 Resp: 234245

Ion Ratio Lower Upper

82 100

95 0.0 6.0 9.0#

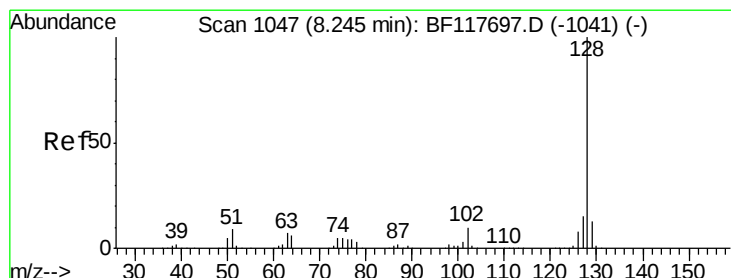
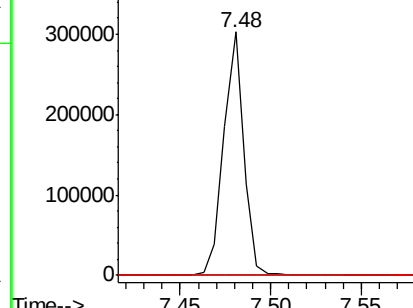
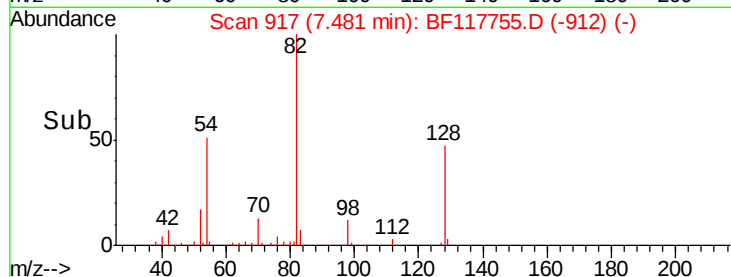
138 0.0 16.0 24.0#



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



#31

Naphthalene

Concen: 8.182 ng

RT: 8.23 min Scan# 1045

Delta R.T. -0.01 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

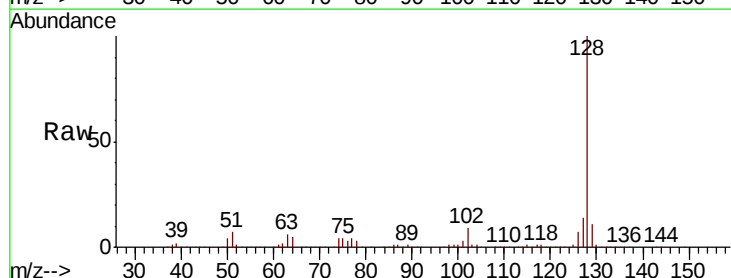
Tgt Ion: 128 Resp: 395234

Ion Ratio Lower Upper

128 100

129 11.3 9.6 14.4

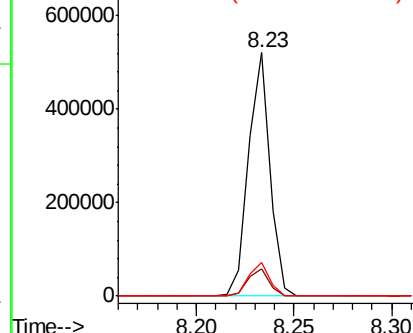
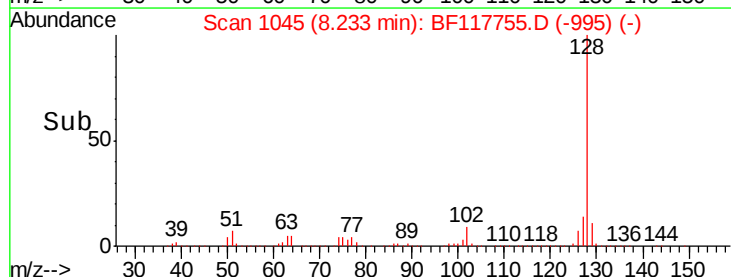
127 13.6 11.4 17.2

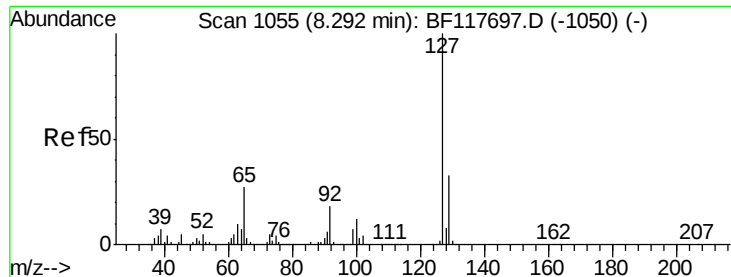


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

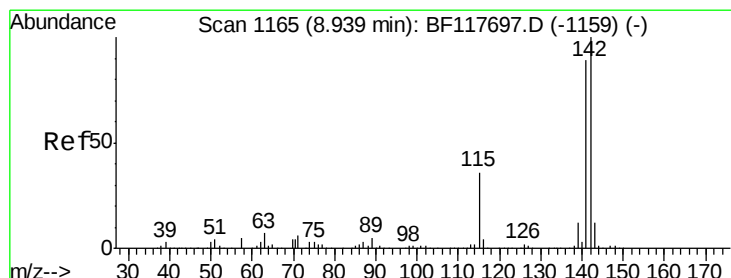
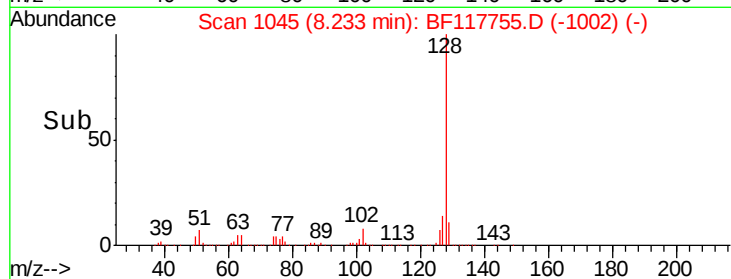
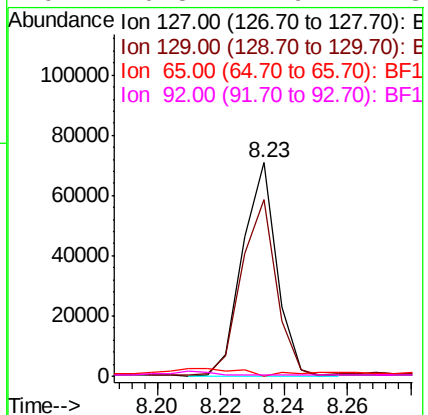
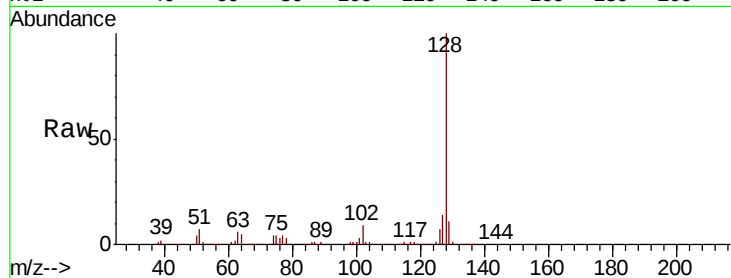




#33
4-Chloroaniline
Concen: 2.370 ng
RT: 8.23 min Scan# 1045
Delta R.T. -0.05 min
Lab File: BF117755.D
Acq: 12 Nov 2019 12:32

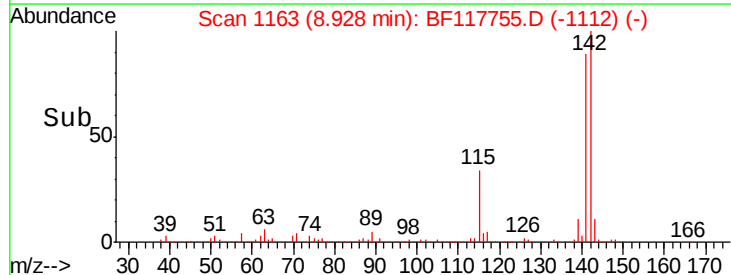
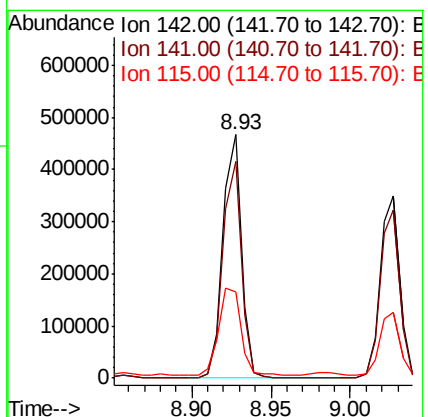
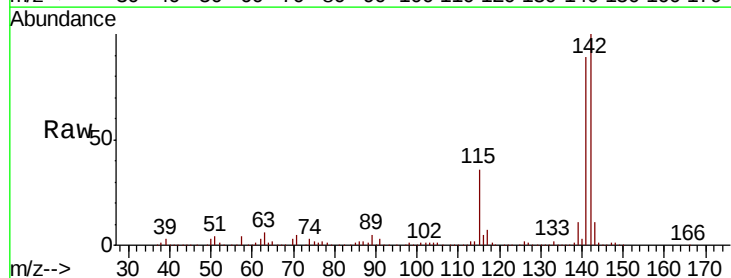
Instrument :
BNA_F
ClientSampleId :

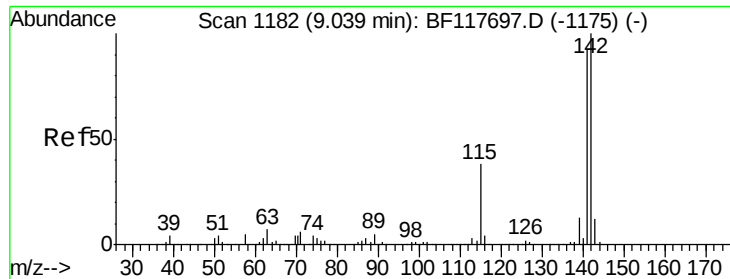
Tot Ion:127	Resp:	53208
Ion Ratio	Lower	Upper
127	100	
129	82.7	26.6 39.8#
65	0.0	23.0 34.6#
92	0.8	14.9 22.3#



#37
2-Methylnaphthalene
Concen: 11.598 ng
RT: 8.93 min Scan# 1163
Delta R.T. 0.00 min
Lab File: BF117755.D
Acq: 12 Nov 2019 12:32

Tgt Ion:142	Resp:	381414
Ion Ratio	Lower	Upper
142	100	
141	89.0	70.2 105.4
115	35.6	28.8 43.2

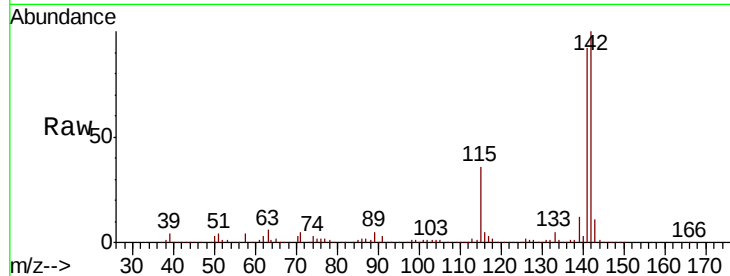




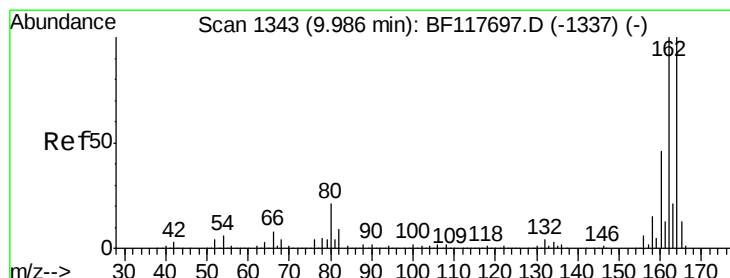
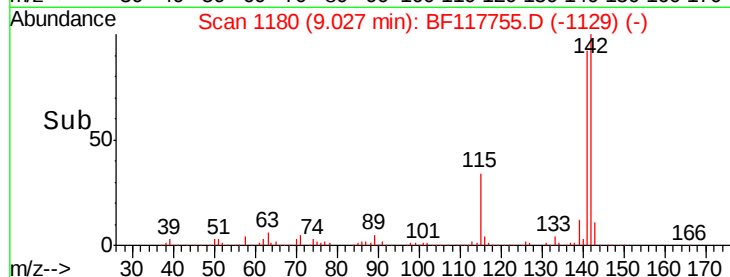
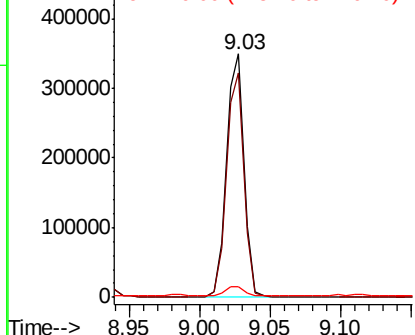
#38
1-Methylnaphthalene
Concen: 9.637 ng
RT: 9.03 min Scan# 1180
Delta R.T. 0.00 min
Lab File: BF117755.D
Acq: 12 Nov 2019 12:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.5	110.3
116	4.6	3.3	4.9

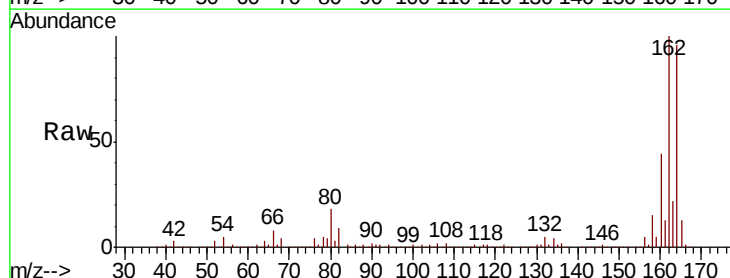


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

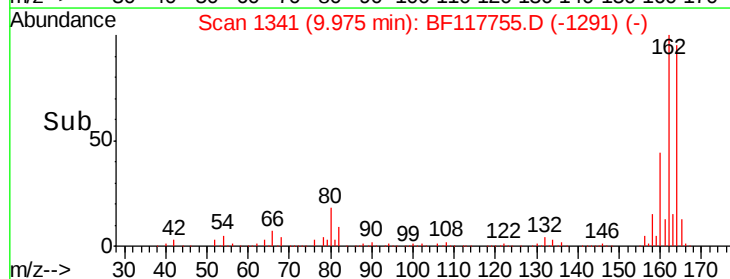
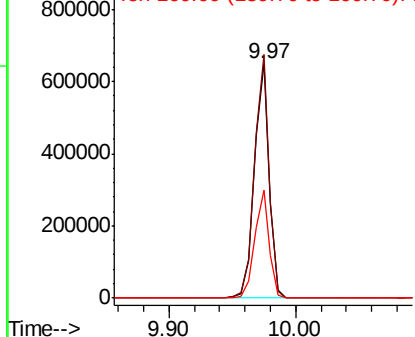


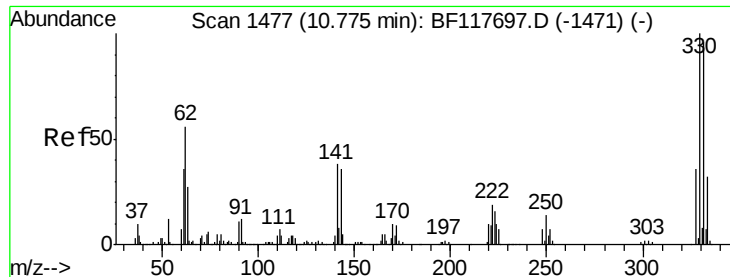
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.97 min Scan# 1341
Delta R.T. -0.01 min
Lab File: BF117755.D
Acq: 12 Nov 2019 12:32

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	81.2	121.8
160	46.1	36.3	54.5



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

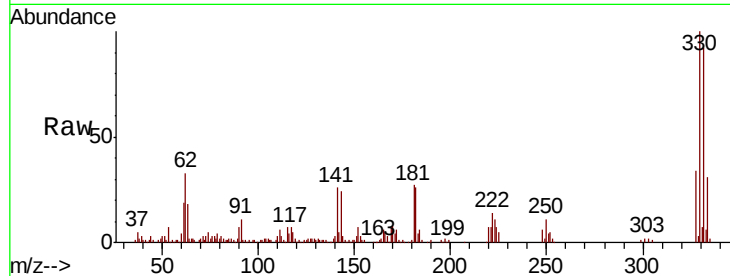




#42
 2,4,6-Tribromophenol
 Concen: 18.178 ng
 RT: 10.76 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: BF117755.D
 Acq: 12 Nov 2019 12:32

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.9	76.9	115.3
141	35.2	26.5	39.7

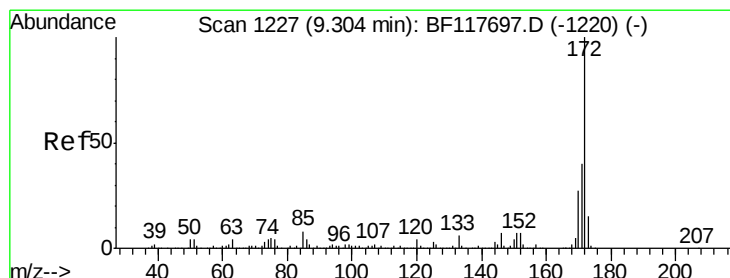
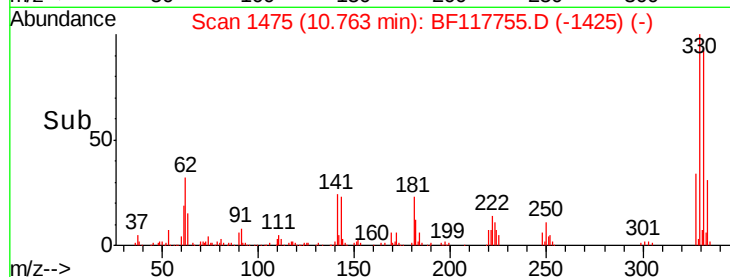
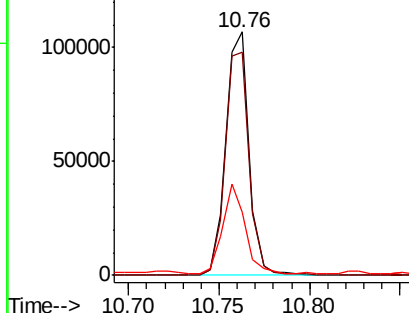


Abundance

Ion 329.80 (329.50 to 330.50): E

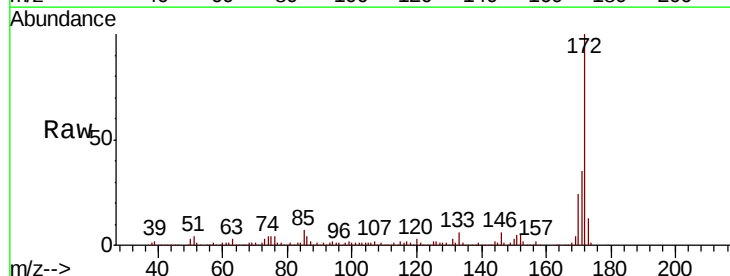
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 13.368 ng
 RT: 9.29 min Scan# 1224
 Delta R.T. -0.01 min
 Lab File: BF117755.D
 Acq: 12 Nov 2019 12:32

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	30.7	46.1
170	23.6	20.6	30.8

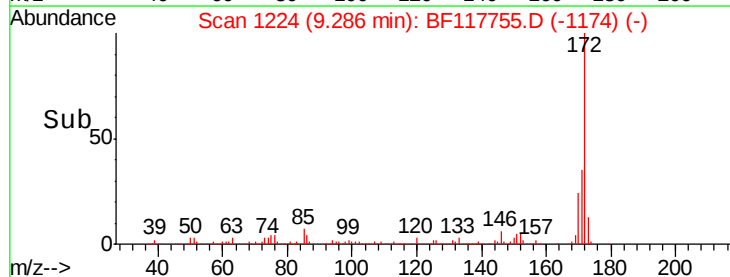
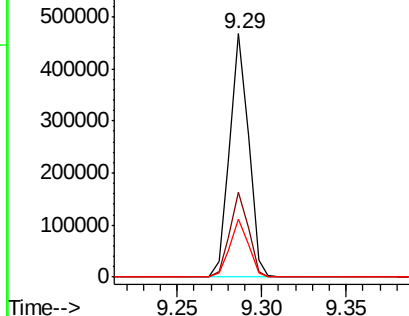


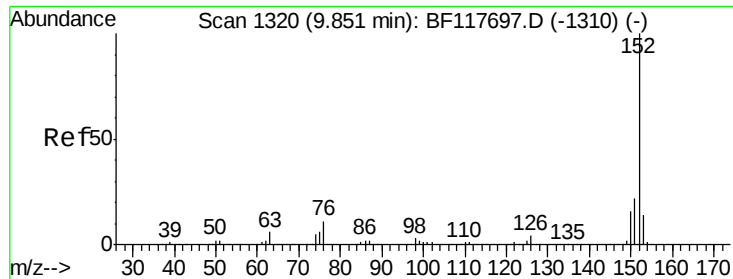
Abundance

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





#49

Acenaphthylene

Concen: 4.467 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

Instrument :

BNA_F

ClientSampleId :

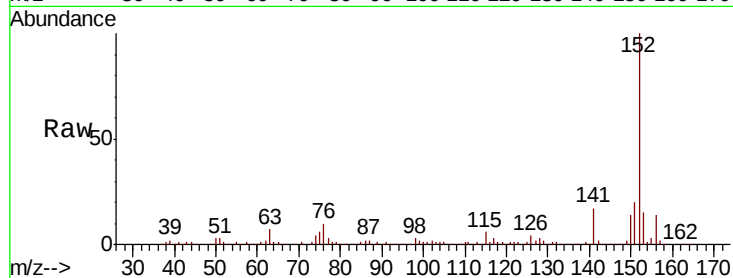
Tot Ion:152 Resp: 202177

Ion Ratio Lower Upper

152 100

151 19.7 17.5 26.3

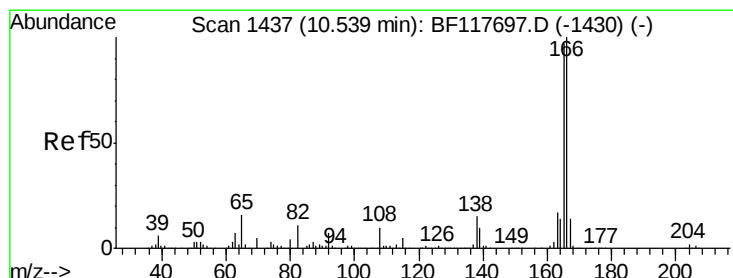
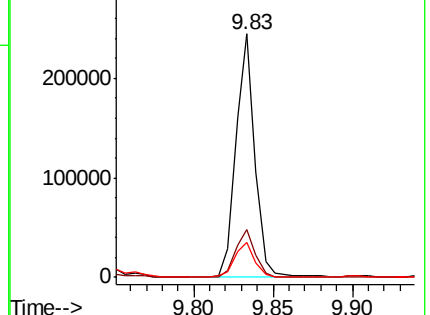
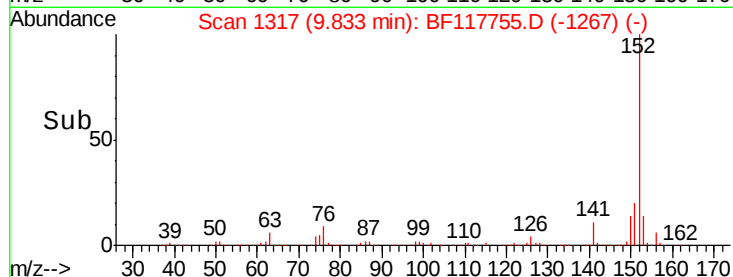
153 14.6 11.7 17.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#58

Fluorene

Concen: 9.088 ng

RT: 10.52 min Scan# 1434

Delta R.T. -0.01 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

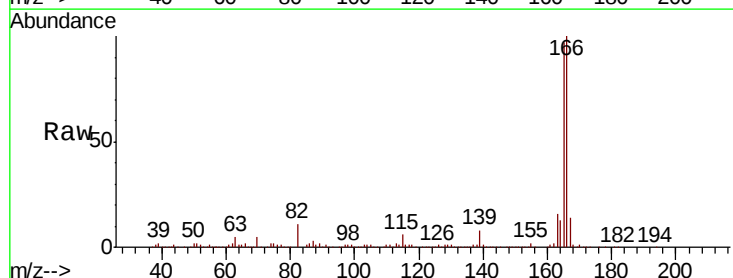
Tgt Ion:166 Resp: 273730

Ion Ratio Lower Upper

166 100

165 97.1 77.5 116.3

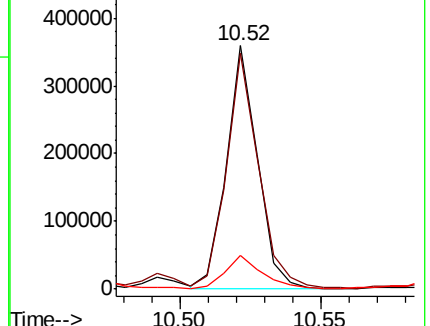
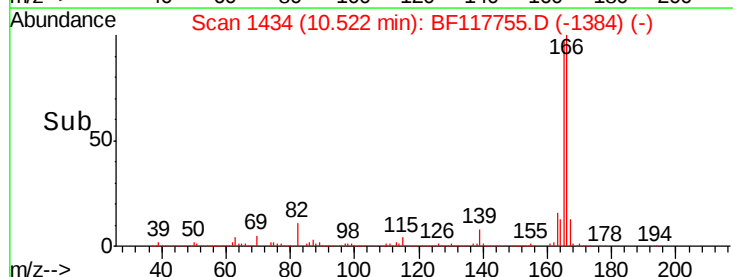
167 13.9 11.3 16.9

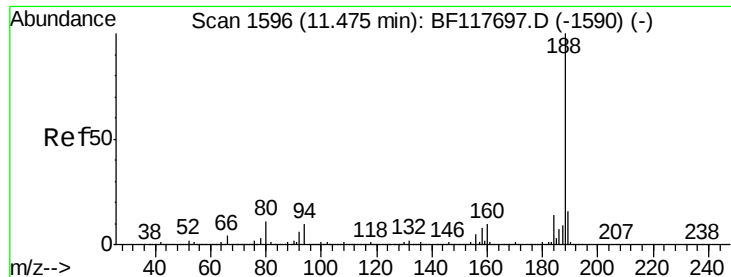


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

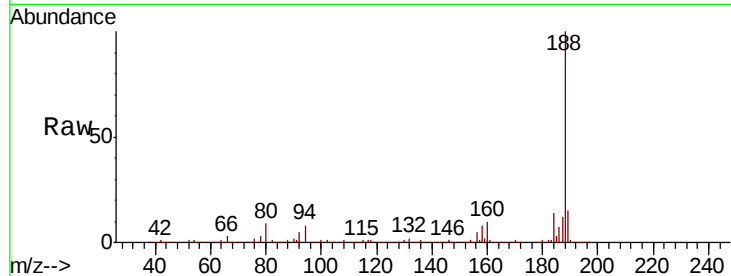




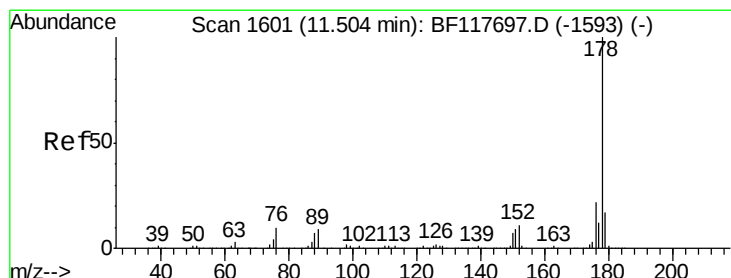
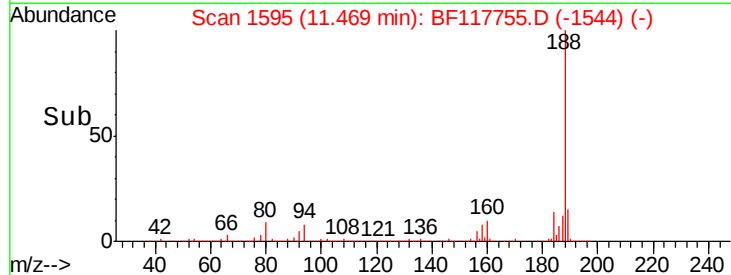
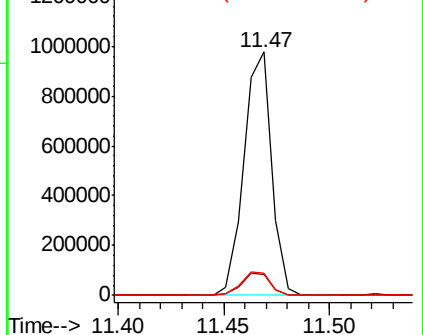
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.47 min Scan# 1595
Delta R.T. 0.00 min
Lab File: BF117755.D
Acq: 12 Nov 2019 12:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 889657
Ion Ratio Lower Upper
188 100
94 8.4 7.4 11.2
80 9.0 8.1 12.1

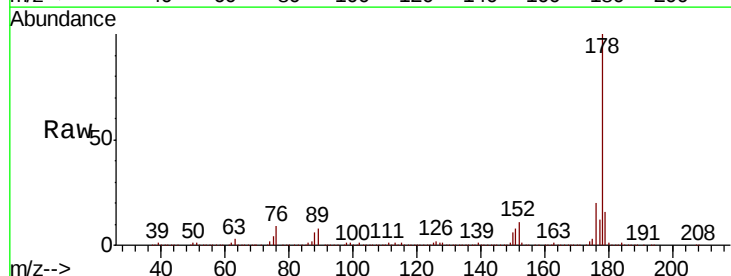


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

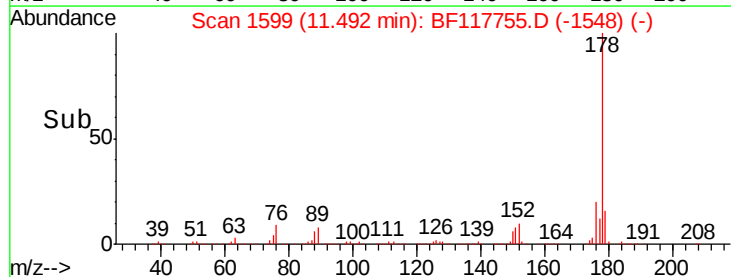
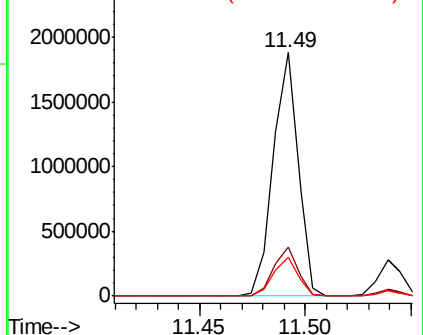


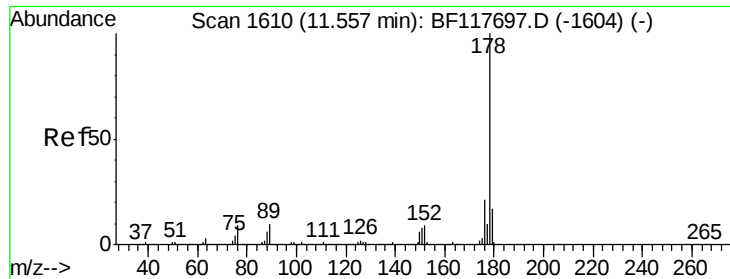
#71
Phenanthrene
Concen: 36.268 ng
RT: 11.49 min Scan# 1599
Delta R.T. 0.00 min
Lab File: BF117755.D
Acq: 12 Nov 2019 12:32

Tgt Ion:178 Resp: 1546554
Ion Ratio Lower Upper
178 100
176 20.4 16.8 25.2
179 16.2 13.5 20.3



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: 5.218 ng

RT: 11.54 min Scan# 1607

Delta R.T. -0.01 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

Instrument :

BNA_F

ClientSampleId :

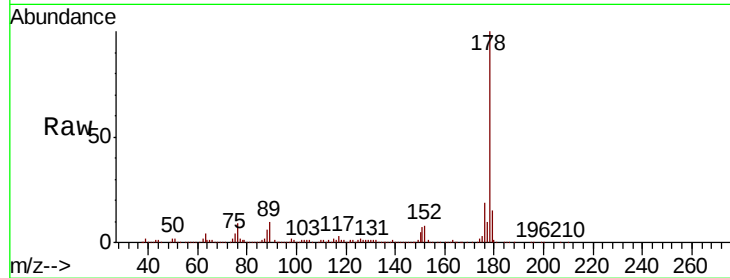
Tot Ion:178 Resp: 221381

Ion Ratio Lower Upper

178 100

176 18.9 16.4 24.6

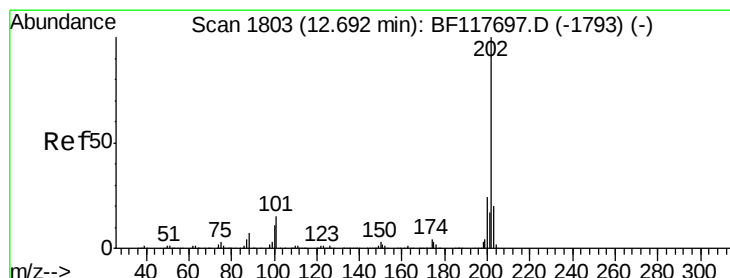
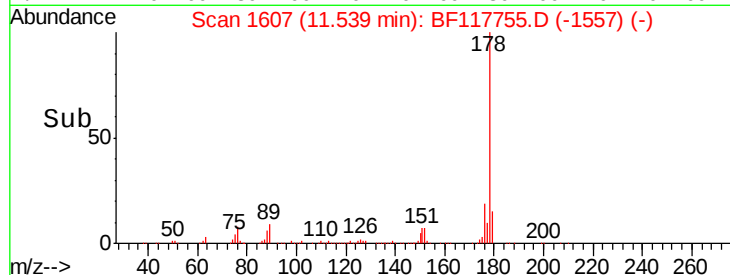
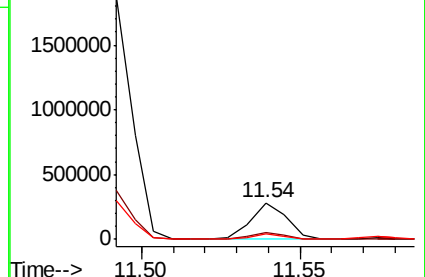
179 15.3 13.6 20.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 17.185 ng

RT: 12.69 min Scan# 1802

Delta R.T. 0.00 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

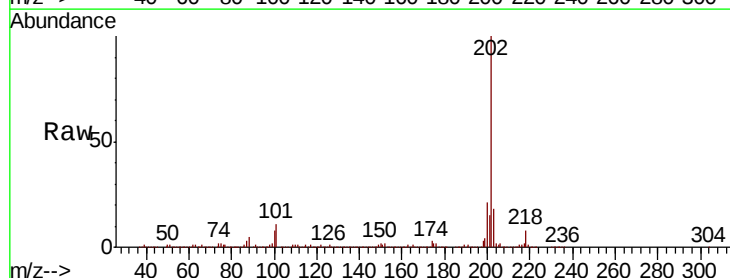
Tgt Ion:202 Resp: 748274

Ion Ratio Lower Upper

202 100

101 10.9 0.0 32.5

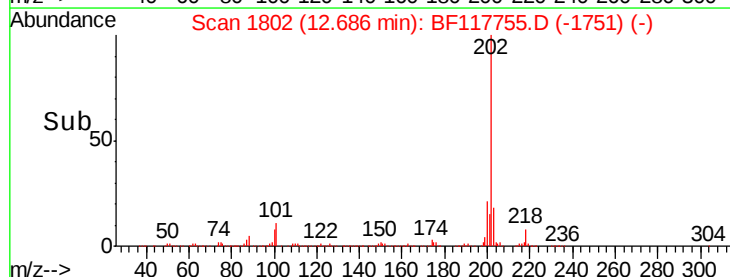
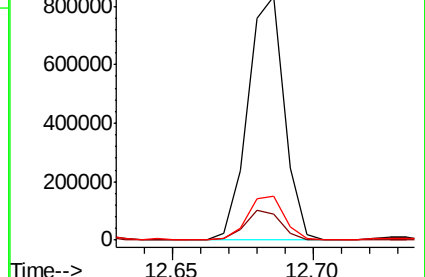
203 18.2 0.0 38.9

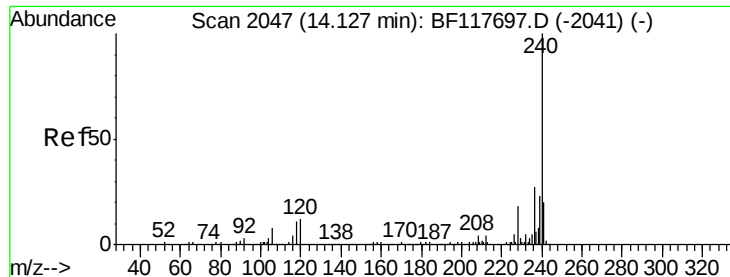


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.12 min Scan# 2045

Delta R.T. -0.01 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

Instrument :

BNA_F

ClientSampleId :

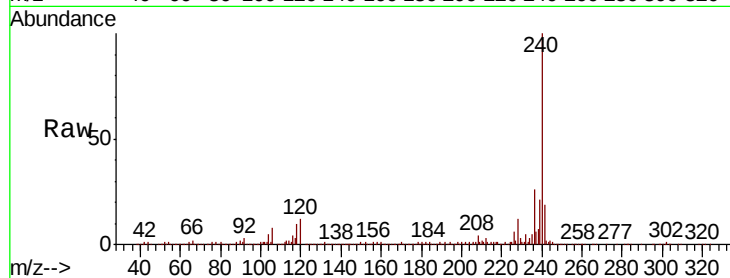
Tot Ion:240 Resp: 577950

Ion Ratio Lower Upper

240 100

120 11.5 9.3 13.9

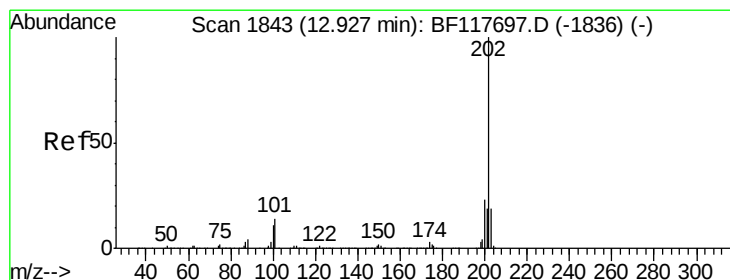
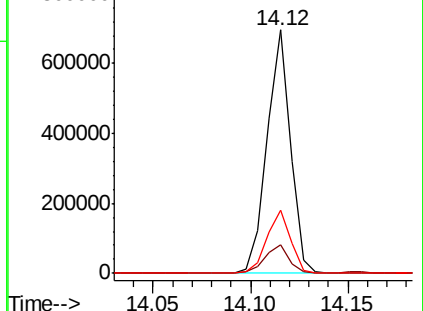
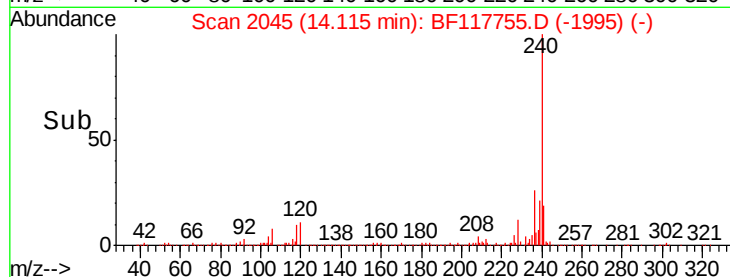
236 26.2 21.4 32.0



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: 27.407 ng

RT: 12.92 min Scan# 1841

Delta R.T. 0.00 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

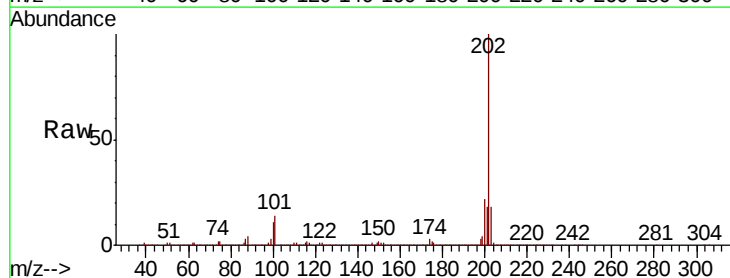
Tgt Ion:202 Resp: 1156276

Ion Ratio Lower Upper

202 100

200 22.1 18.9 28.3

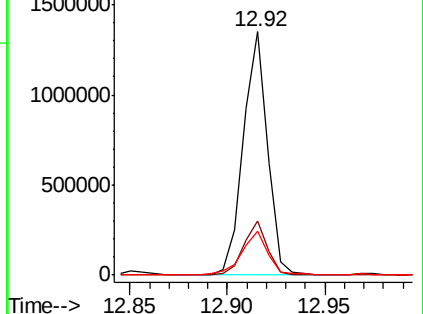
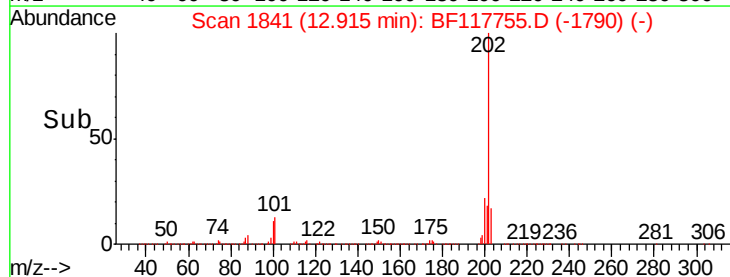
203 18.2 15.3 22.9

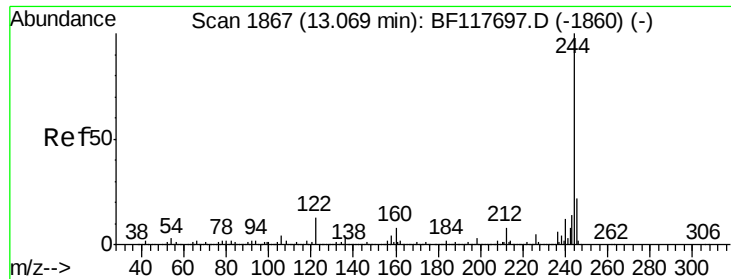


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 10.566 ng

RT: 13.05 min Scan# 1864

Delta R.T. -0.01 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

Instrument :

BNA_F

ClientSampleId :

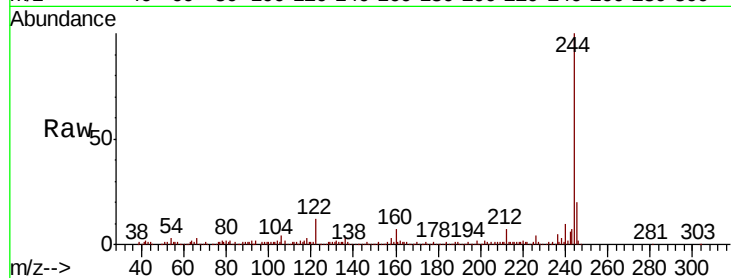
Tot Ion:244 Resp: 296639

Ion Ratio Lower Upper

244 100

212 6.6 6.2 9.4

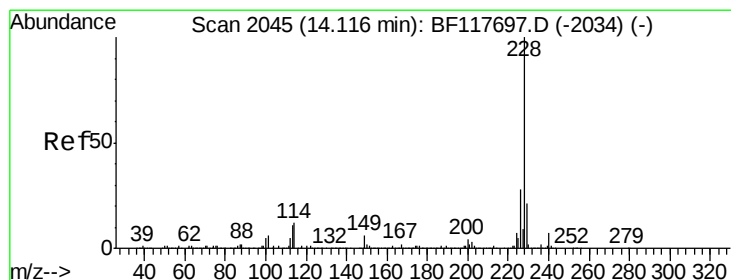
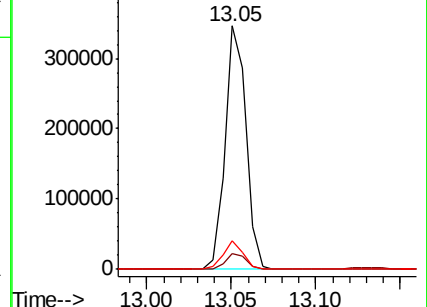
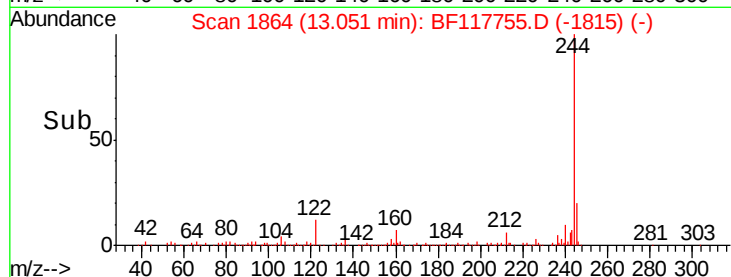
122 11.9 9.1 13.7



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: 13.415 ng

RT: 14.10 min Scan# 2043

Delta R.T. -0.01 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

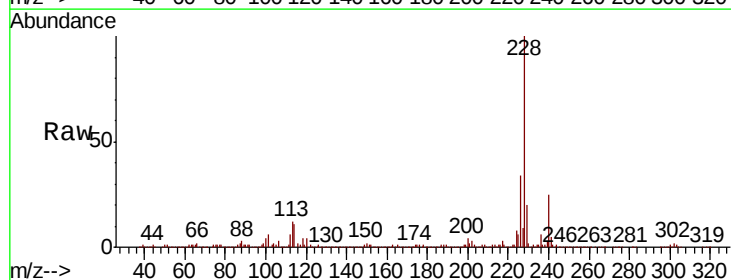
Tgt Ion:228 Resp: 482600

Ion Ratio Lower Upper

228 100

226 33.6 22.6 33.8

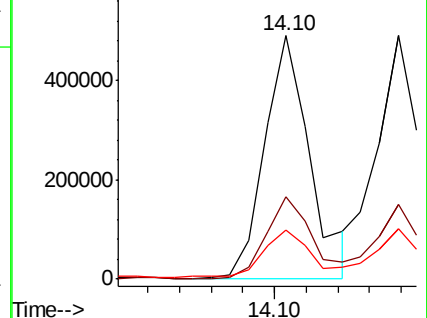
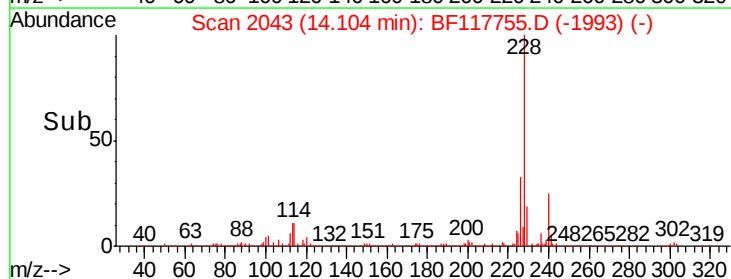
229 20.1 17.0 25.4

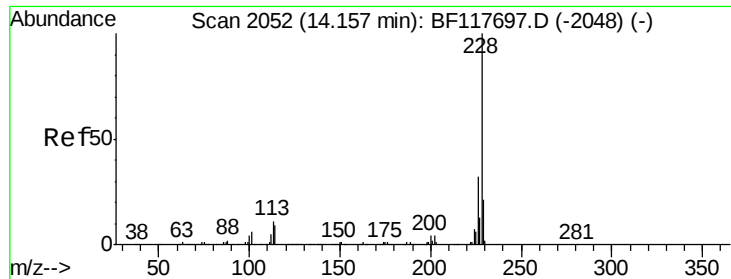


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 12.445 ng

RT: 14.14 min Scan# 2049

Delta R.T. -0.01 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

Instrument :

BNA_F

ClientSampleId :

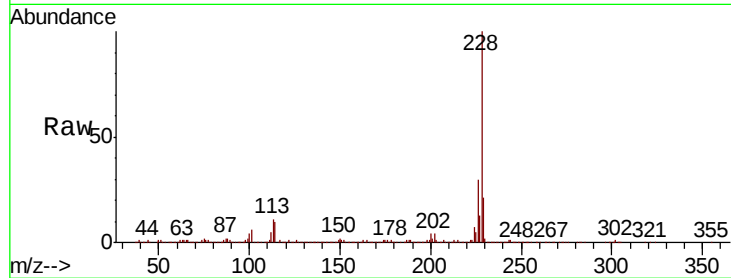
Tot Ion:228 Resp: 442134

Ion Ratio Lower Upper

228 100

226 30.5 25.1 37.7

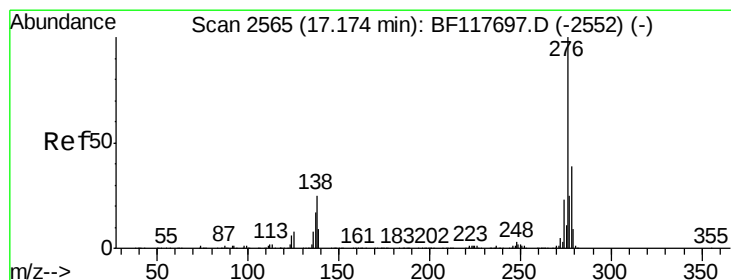
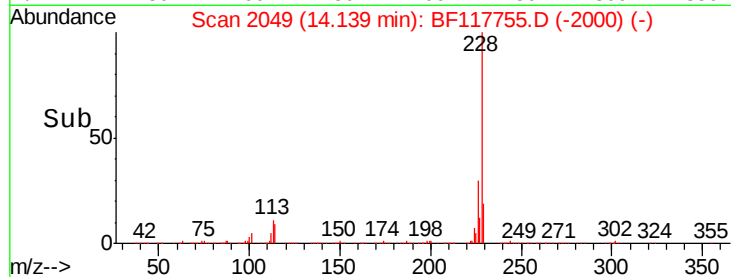
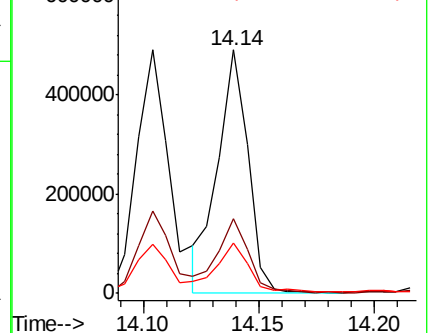
229 20.7 16.6 25.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 6.631 ng

RT: 17.15 min Scan# 2561

Delta R.T. -0.02 min

Lab File: BF117755.D

Acq: 12 Nov 2019 12:32

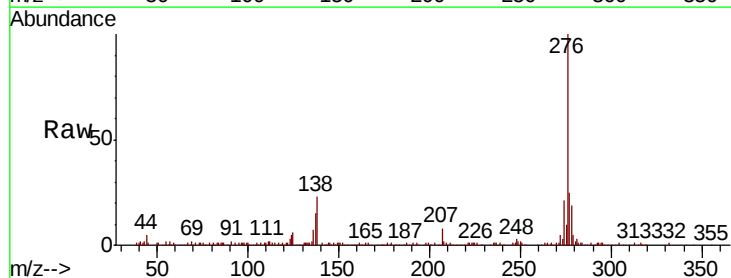
Tgt Ion:276 Resp: 219266

Ion Ratio Lower Upper

276 100

138 23.4 21.2 31.8

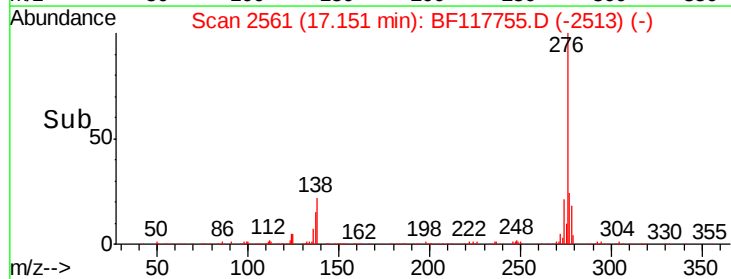
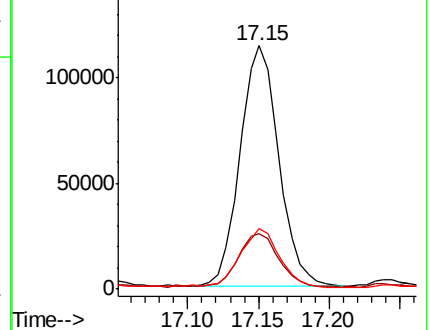
277 25.7 20.1 30.1

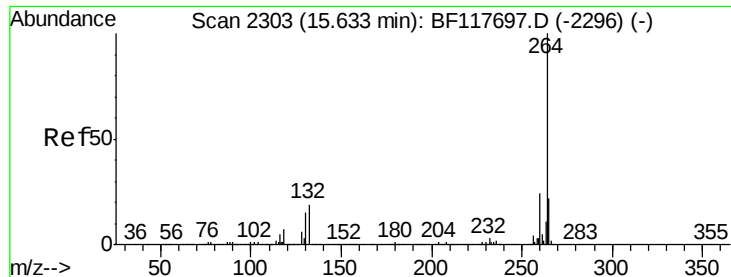


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



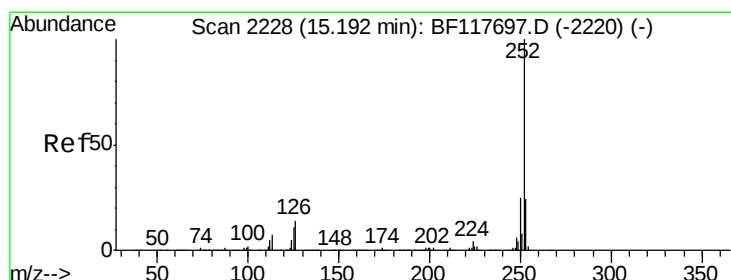
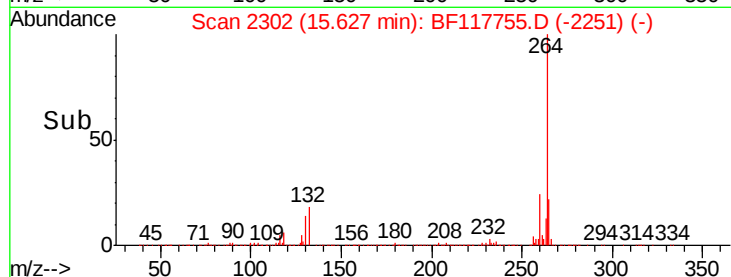
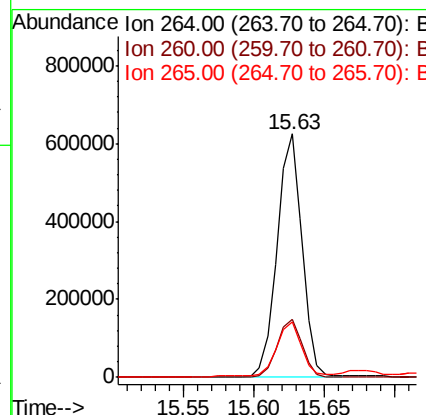
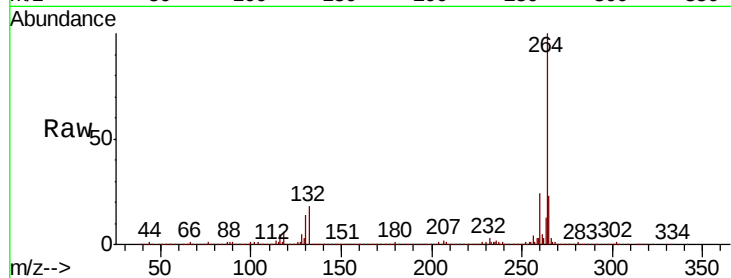


#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.63 min Scan# 2302
Delta R.T. 0.00 min
Lab File: BF117755.D
Acq: 12 Nov 2019 12:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 773076

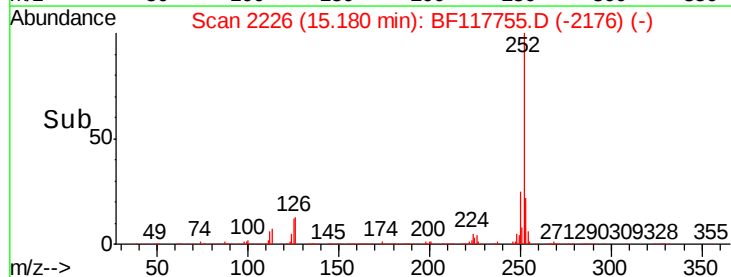
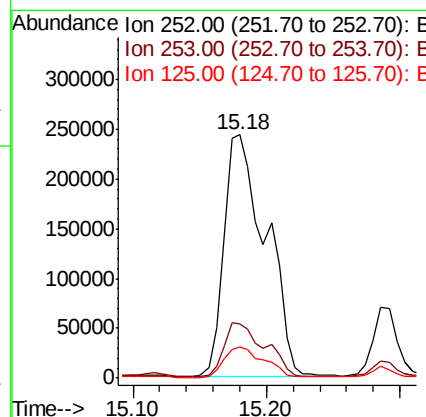
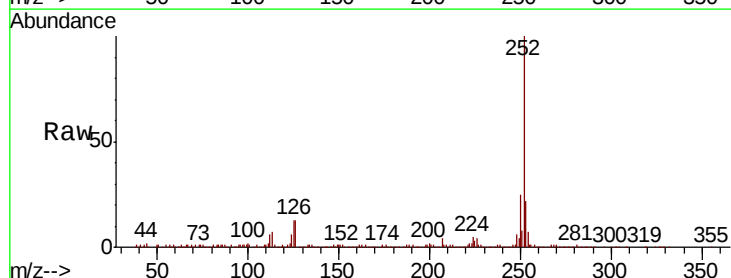
Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.0	28.6
265	22.5	17.2	25.8

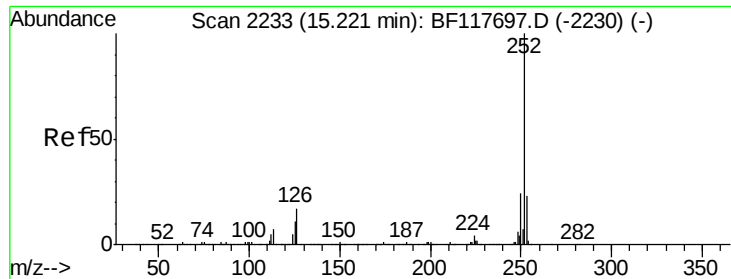


#88
Benzo(b)fluoranthene
Concen: 10.938 ng
RT: 15.18 min Scan# 2226
Delta R.T. -0.01 min
Lab File: BF117755.D
Acq: 12 Nov 2019 12:32

Tgt Ion:252 Resp: 532570

Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.3	27.5
125	12.5	8.4	12.6

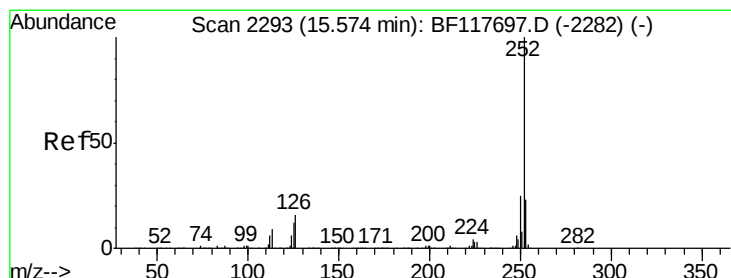
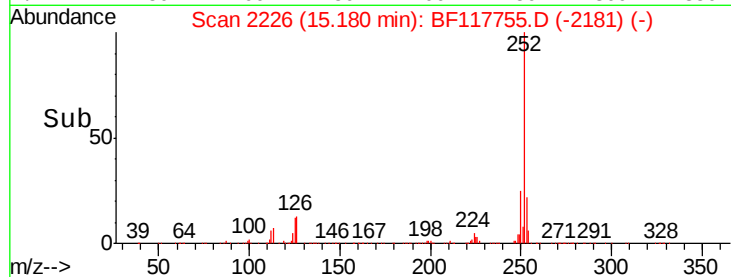
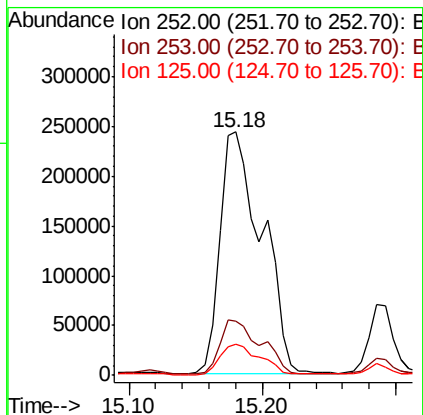
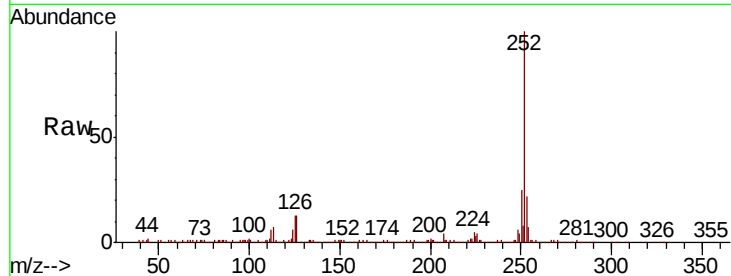




#89
Benzo(k)fluoranthene
Concen: 12.264 ng
RT: 15.18 min Scan# 2226
Delta R.T. -0.04 min
Lab File: BF117755.D
Acq: 12 Nov 2019 12:32

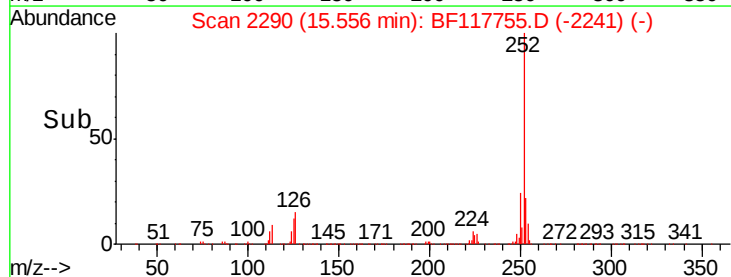
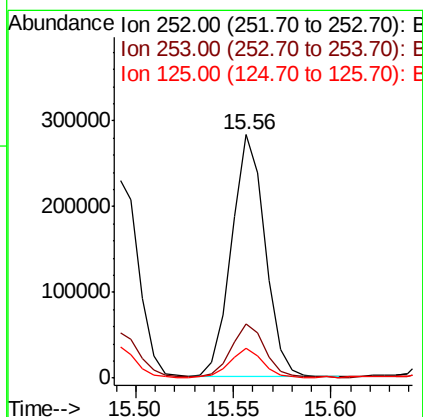
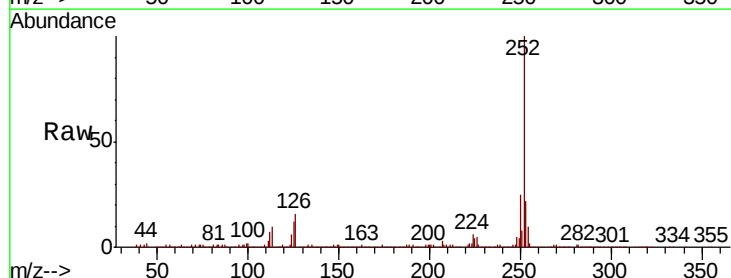
Instrument :
BNA_F
ClientSampleId :

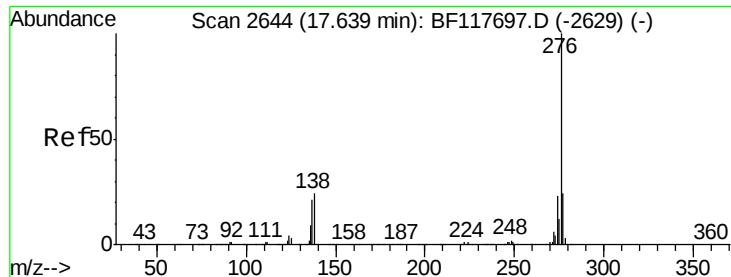
Tot Ion:252 Resp: 532570
Ion Ratio Lower Upper
252 100
253 22.0 18.6 28.0
125 12.5 8.9 13.3



#90
Benzo(a)pyrene
Concen: 7.987 ng
RT: 15.56 min Scan# 2290
Delta R.T. -0.01 min
Lab File: BF117755.D
Acq: 12 Nov 2019 12:32

Tgt Ion:252 Resp: 337104
Ion Ratio Lower Upper
252 100
253 22.3 18.2 27.2
125 12.2 9.6 14.4

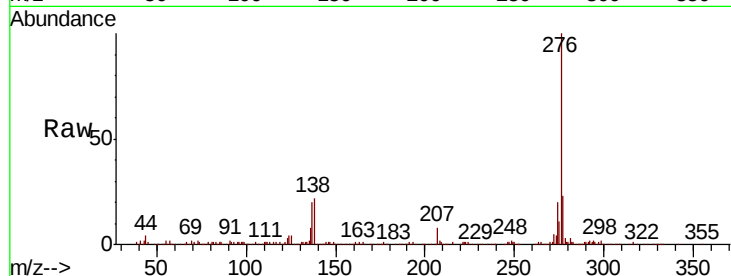




#92
 Benzo(a,h,i)perylene
 Concen: 6.849 ng
 RT: 17.62 min Scan# 2640
 Delta R.T. -0.02 min
 Lab File: BF117755.D
 Acq: 12 Nov 2019 12:32

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.0	28.6
138	22.1	18.6	27.8



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

