

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
 Data File : BF117647.D
 Acq On : 31 Oct 2019 5:47
 Operator : JU
 Sample : K5576-14DL 25X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 31 07:59:25 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	32725	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	154776	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	73572	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	102854	20.00	ng	0.00
76) Chrysene-d12	13.90	240	74156	20.00	ng	0.00
87) Perylene-d12	15.33	264	65801	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.43	112	1904	0.87	ng	0.08
7) Phenol-d6	6.46	99	6757	2.29	ng	0.08
23) Nitrobenzene-d5	7.36	82	3413	1.09	ng	0.06
42) 2,4,6-Tribromophenol	10.57	330	1242	1.95	ng	0.01
45) 2-Fluorobiphenyl	9.09	172	12398	2.37	ng	0.00
79) Terphenyl-d14	12.83	244	10557	2.32	ng	0.00

Target Compounds

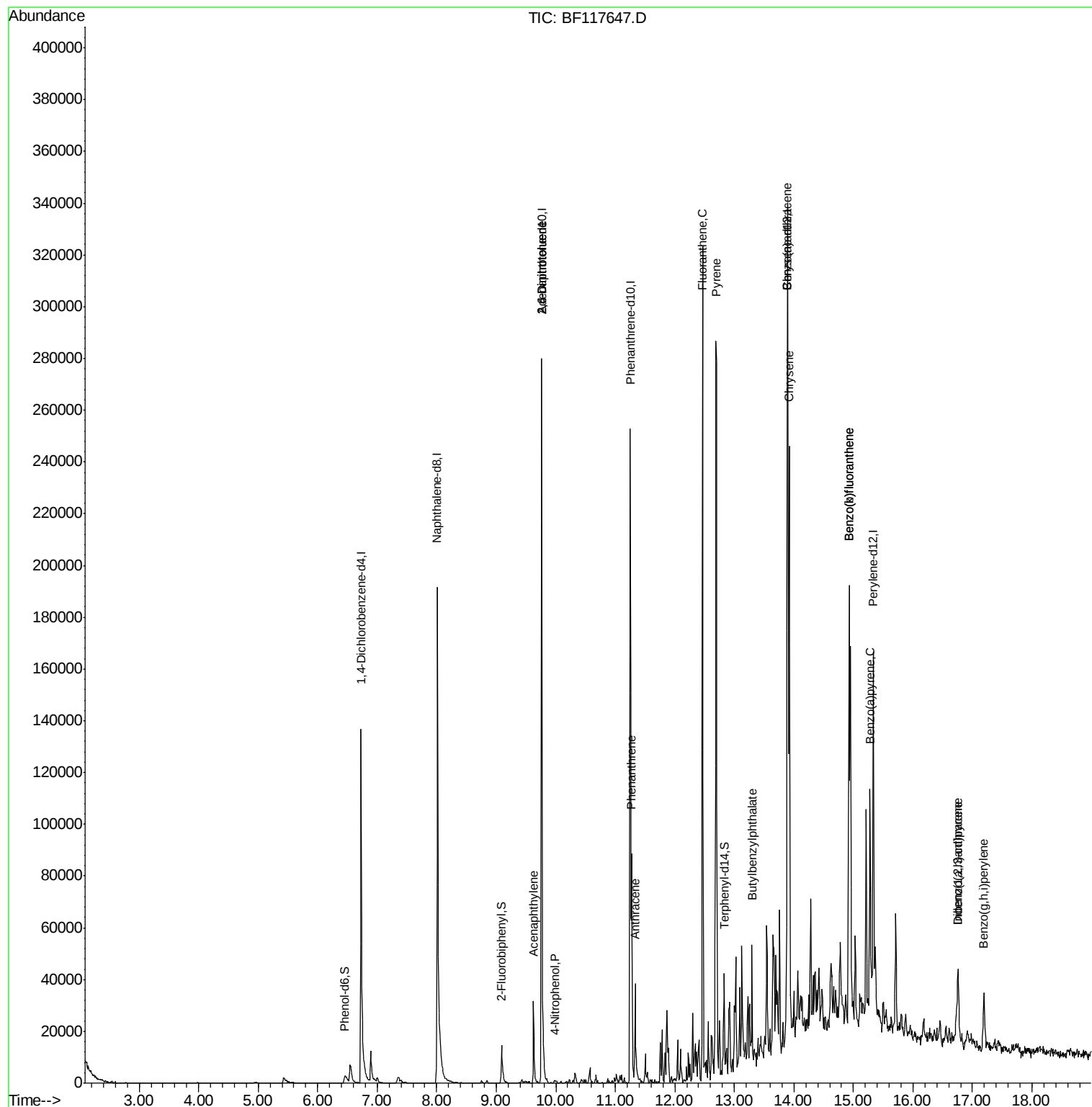
						Qvalue
49) Acenaphthylene	9.63	152	21119	3.131	ng	100
51) 2,6-Dinitrotoluene	9.76	165	9113	8.326	ng	# 22
56) 4-Nitrophenol	9.99	139	240	4.503	ng	# 6
57) 2,4-Dinitrotoluene	9.76	165	9113	6.263	ng	# 12
71) Phenanthrene	11.27	178	35422	5.931	ng	99
72) Anthracene	11.33	178	26825	4.377	ng	97
75) Fluoranthene	12.47	202	143995	24.084	ng	98
78) Pyrene	12.70	202	125739	19.740	ng	98
80) Butylbenzylphthalate	13.30	149	9652	3.045	ng	99
81) Benzo(a)anthracene	13.89	228	86588	17.310	ng	97
83) Chrysene	13.92	228	77730	15.856	ng	98
86) Indeno(1,2,3-cd)pyrene	16.76	276	20270	5.538	ng	95
88) Benzo(b)fluoranthene	14.93	252	118606	30.524	ng	99
89) Benzo(k)fluoranthene	14.93	252	118606	29.782	ng	98
90) Benzo(a)pyrene	15.28	252	43553	12.328	ng	95
91) Dibenzo(a,h)anthracene	16.75	278	6366	2.084	ng	# 87
92) Benzo(g,h,i)perylene	17.19	276	16620	5.750	ng	# 90

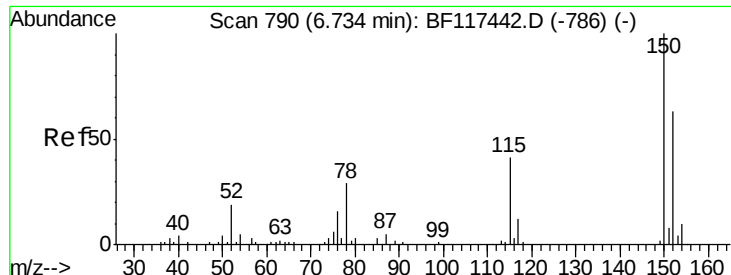
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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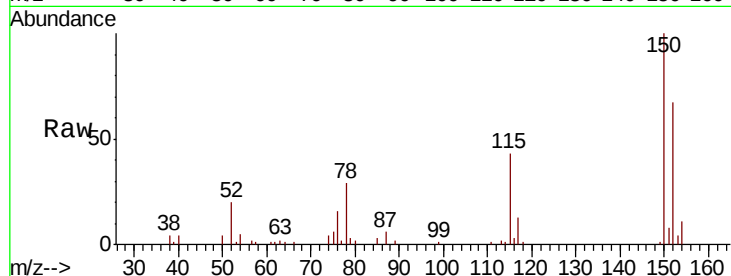


#1

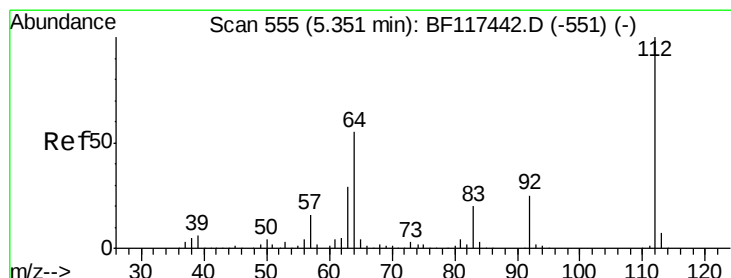
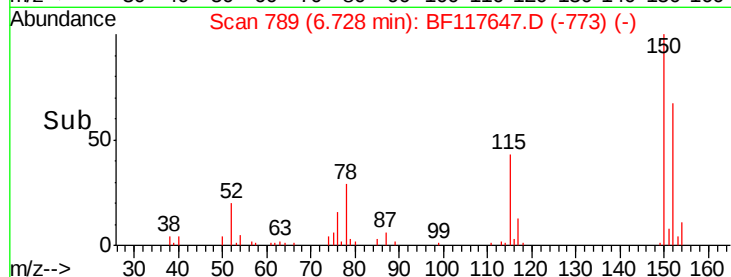
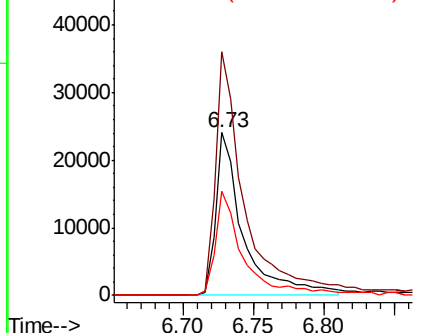
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117647.D
Acq: 31 Oct 2019 5:47

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 32725
Ion Ratio Lower Upper
152 100
150 149.6 126.8 190.2
115 64.1 51.6 77.4



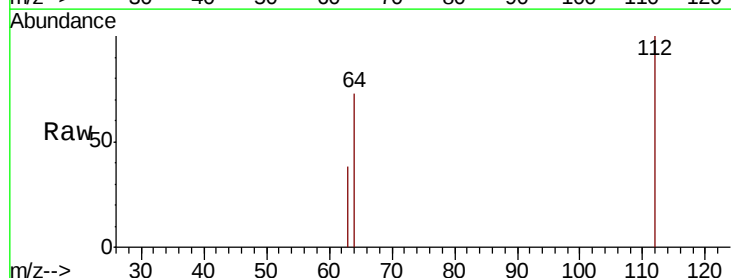
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



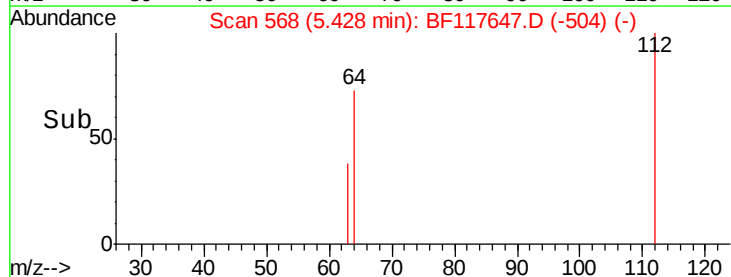
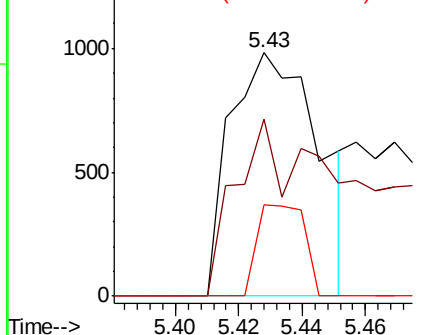
#5

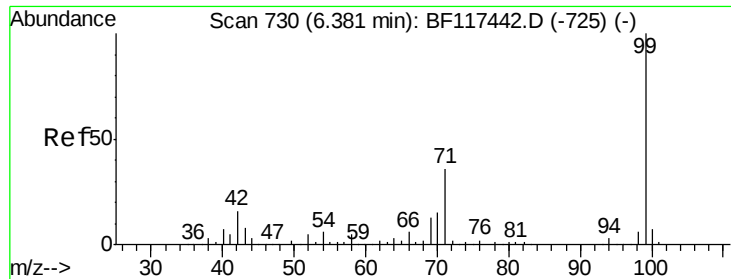
2-Fluorophenol
Concen: 0.866 ng
RT: 5.43 min Scan# 568
Delta R.T. 0.08 min
Lab File: BF117647.D
Acq: 31 Oct 2019 5:47

Tgt Ion:112 Resp: 1904
Ion Ratio Lower Upper
112 100
64 72.7 44.1 66.1#
63 37.5 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: 2.287 ng

RT: 6.46 min Scan# 743

Delta R.T. 0.08 min

Lab File: BF117647.D

Acq: 31 Oct 2019 5:47

Instrument :

BNA_F

ClientSampleId :

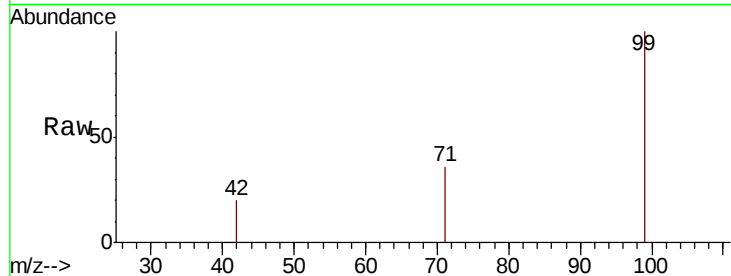
Tot Ion: 99 Resp: 6757

Ion Ratio Lower Upper

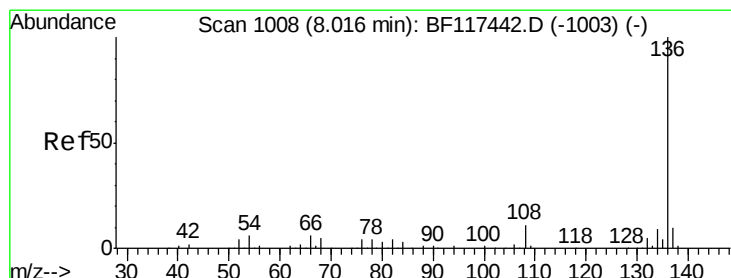
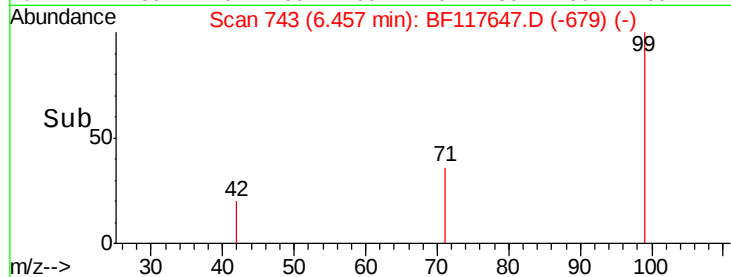
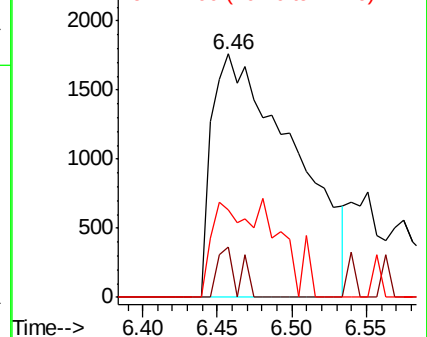
99 100

42 20.5 12.8 19.2#

71 35.8 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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF117647.D

Acq: 31 Oct 2019 5:47

Tgt Ion: 136 Resp: 154776

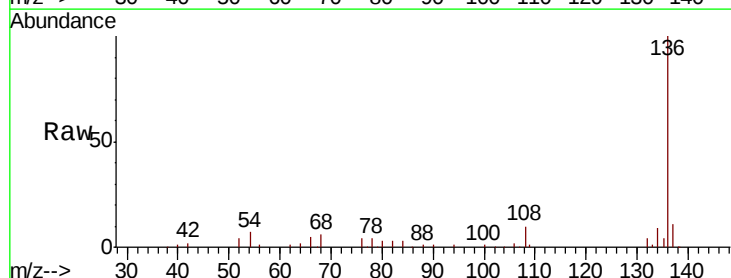
Ion Ratio Lower Upper

136 100

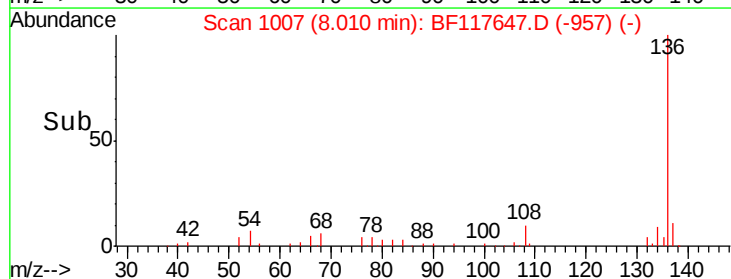
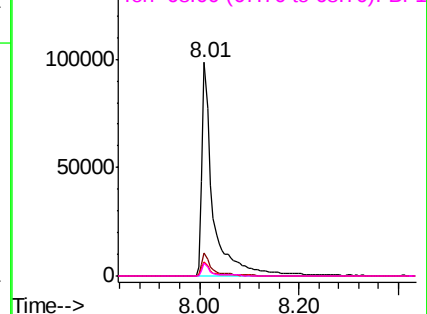
137 11.0 8.2 12.4

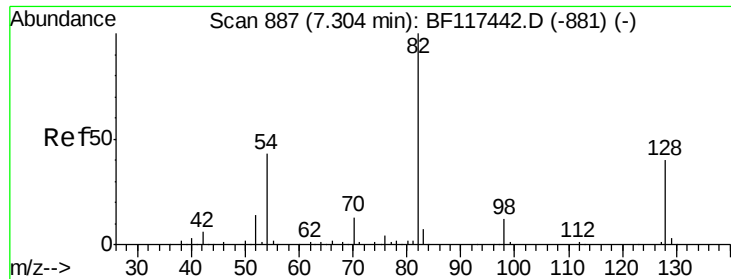
54 6.5 4.5 6.7

68 5.9 4.3 6.5



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

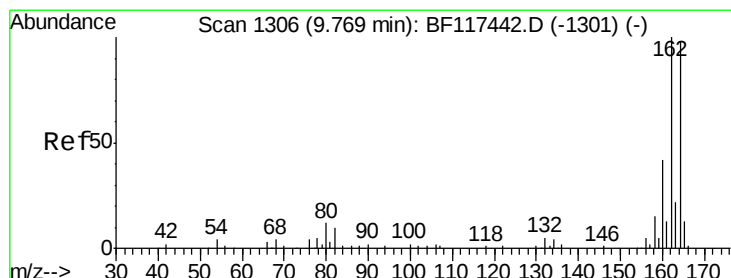
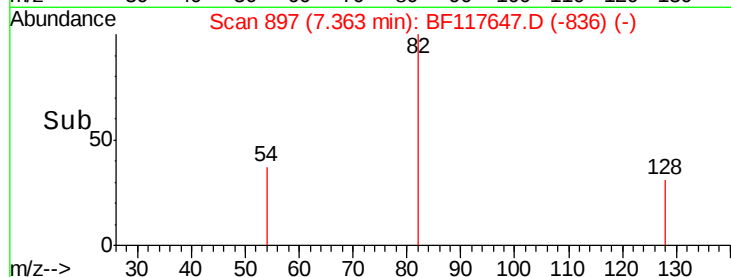
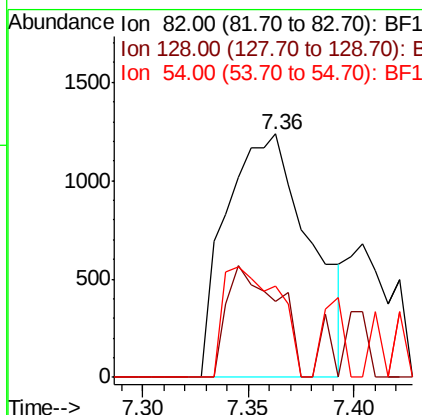
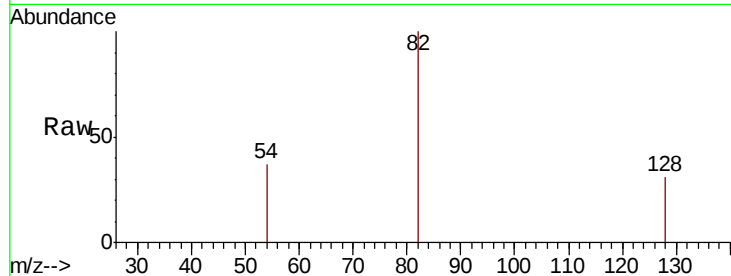




#23
Nitrobenzene-d5
Concen: 1.089 ng
RT: 7.36 min Scan# 897
Delta R.T. 0.06 min
Lab File: BF117647.D
Acq: 31 Oct 2019 5:47

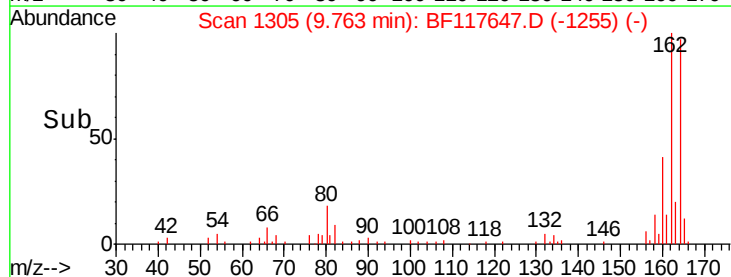
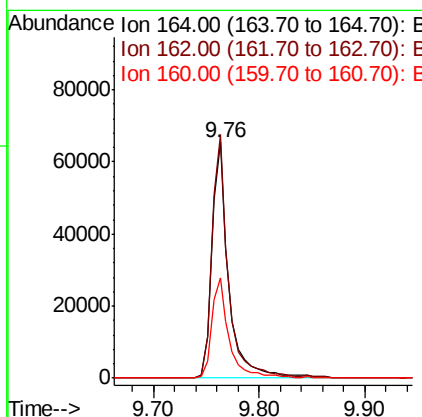
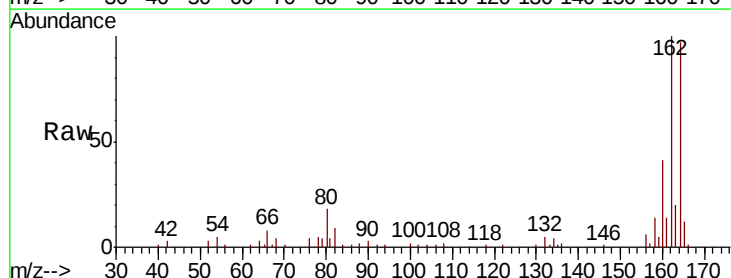
Instrument :
BNA_F
ClientSampleId :

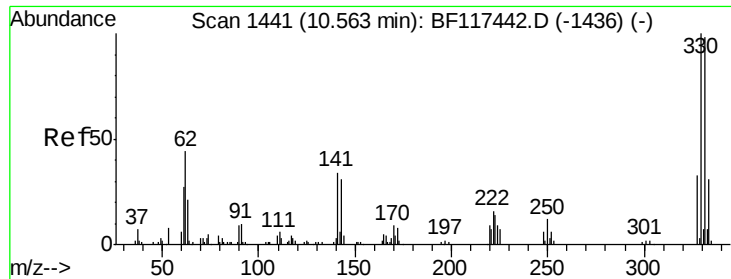
Tot Ion: 82 Resp: 3413
Ion Ratio Lower Upper
82 100
128 31.0 32.2 48.2#
54 37.5 34.2 51.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117647.D
Acq: 31 Oct 2019 5:47

Tgt Ion: 164 Resp: 73572
Ion Ratio Lower Upper
164 100
162 103.4 81.8 122.6
160 42.8 34.4 51.6

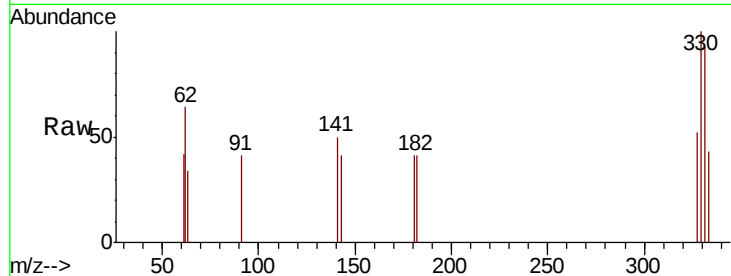




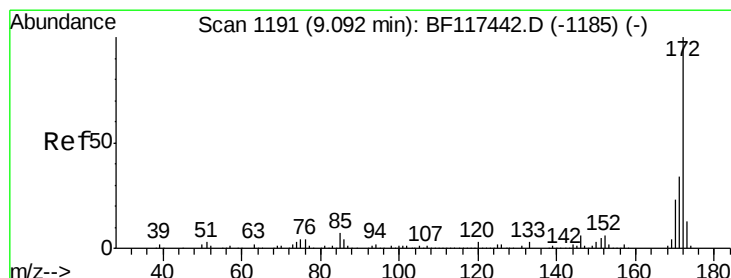
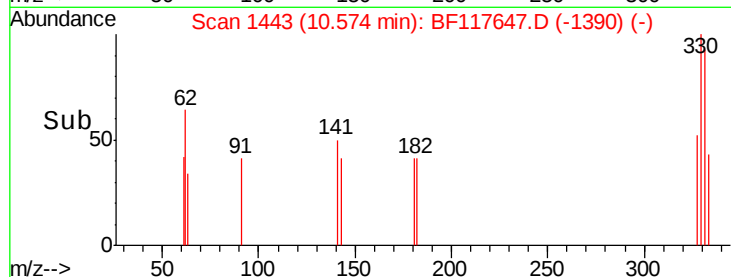
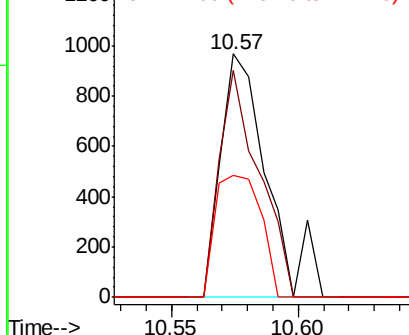
#42
 2,4,6-Tribromophenol
 Concen: 1.951 ng
 RT: 10.57 min Scan# 1443
 Delta R.T. 0.01 min
 Lab File: BF117647.D
 Acq: 31 Oct 2019 5:47

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 1242
 Ion Ratio Lower Upper
 330 100
 332 79.4 78.5 117.7
 141 49.0 37.0 55.6

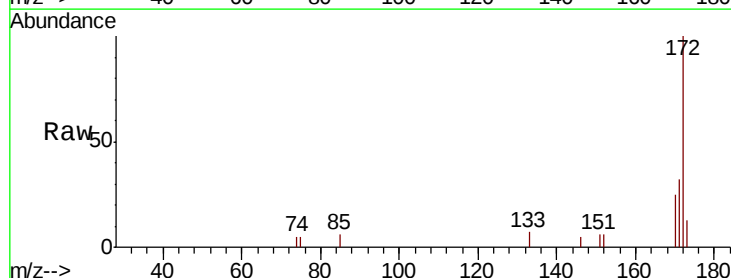


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

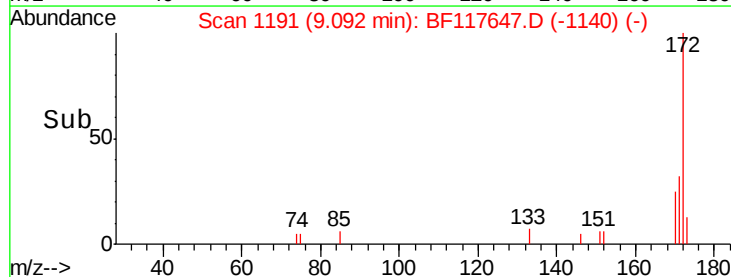
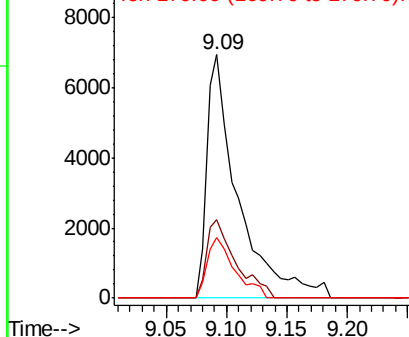


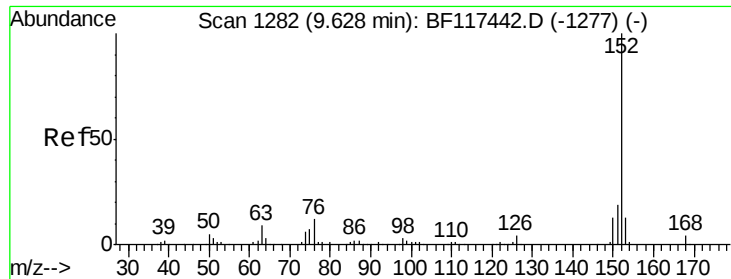
#45
 2-Fluorobiphenyl
 Concen: 2.374 ng
 RT: 9.09 min Scan# 1191
 Delta R.T. -0.00 min
 Lab File: BF117647.D
 Acq: 31 Oct 2019 5:47

Tgt Ion:172 Resp: 12398
 Ion Ratio Lower Upper
 172 100
 171 32.0 27.5 41.3
 170 24.8 18.6 27.8



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: 3.131 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.00 min

Lab File: BF117647.D

Acq: 31 Oct 2019 5:47

Instrument :

BNA_F

ClientSampleId :

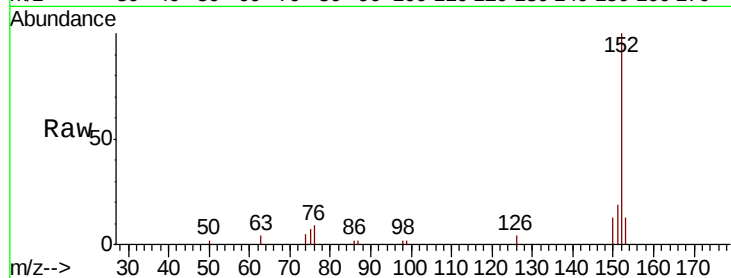
Tot Ion:152 Resp: 21119

Ion Ratio Lower Upper

152 100

151 19.2 15.4 23.0

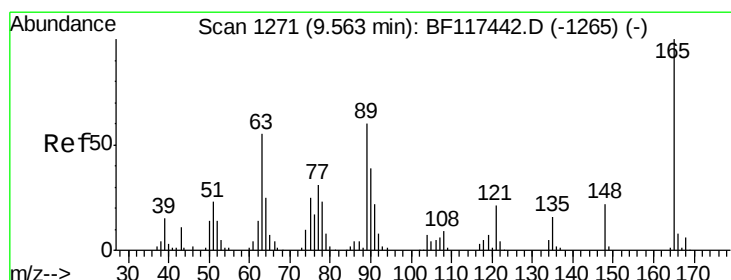
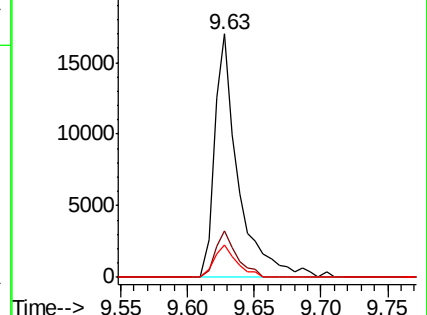
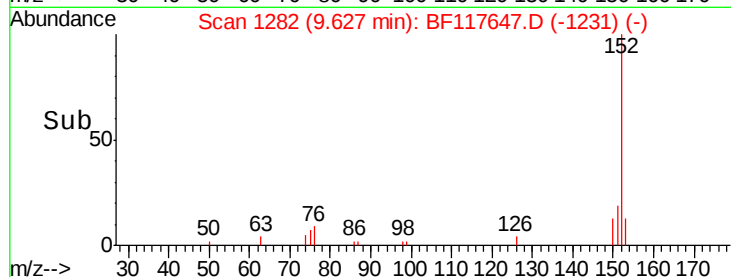
153 13.3 10.3 15.5



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



#51

2,6-Dinitrotoluene

Concen: 8.326 ng

RT: 9.76 min Scan# 1305

Delta R.T. 0.20 min

Lab File: BF117647.D

Acq: 31 Oct 2019 5:47

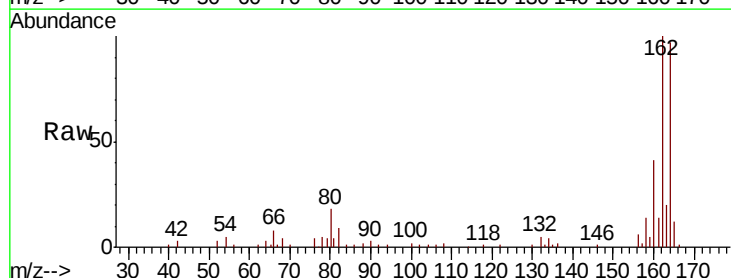
Tgt Ion:165 Resp: 9113

Ion Ratio Lower Upper

165 100

63 0.0 43.8 65.8#

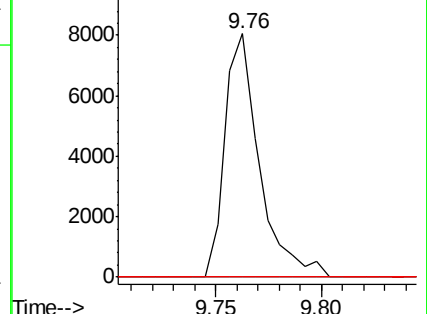
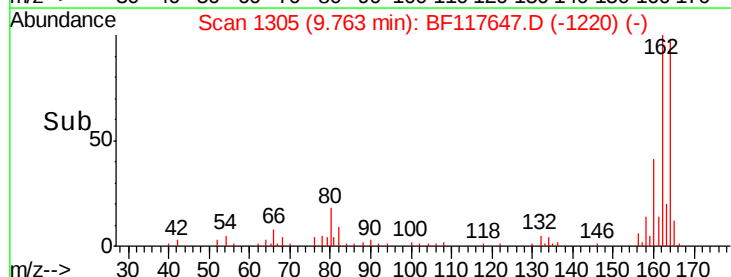
89 0.0 47.6 71.4#

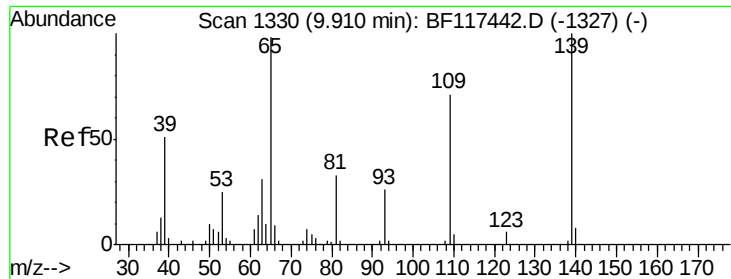


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

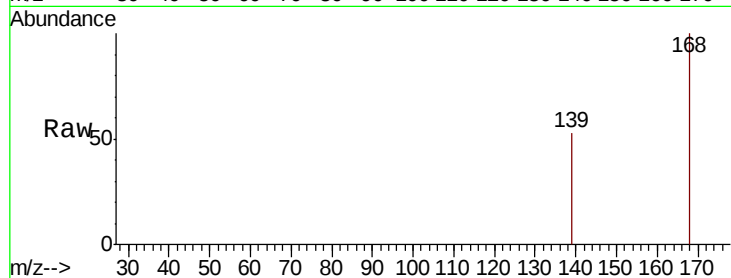




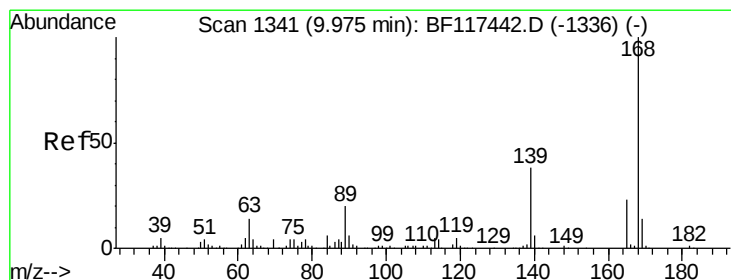
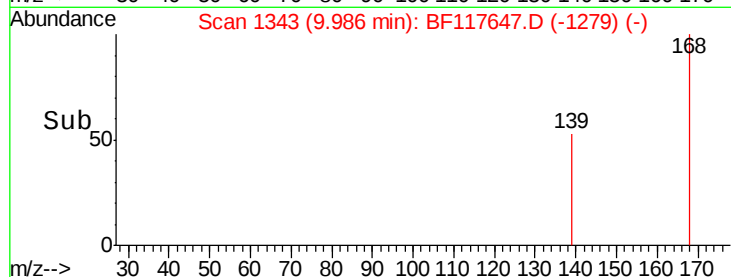
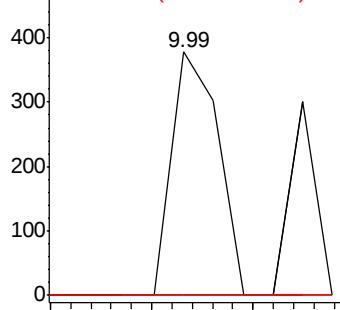
#56
4-Nitrophenol
Concen: 4.503 ng
RT: 9.99 min Scan# 1343
Delta R.T. 0.08 min
Lab File: BF117647.D
Acq: 31 Oct 2019 5:47

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
139	100		
109	0.0	51.4	91.4#
65	0.0	79.4	119.4#

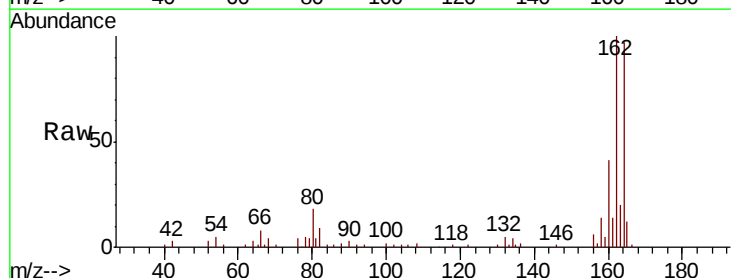


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

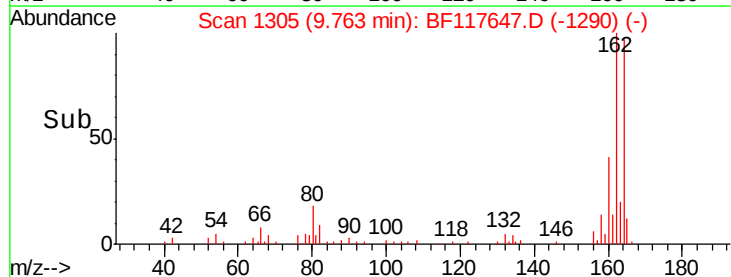
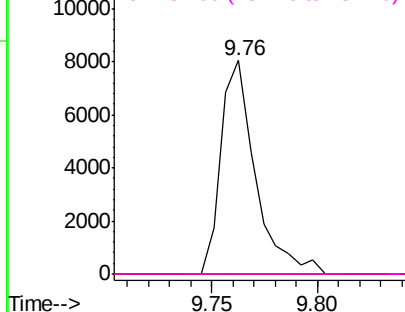


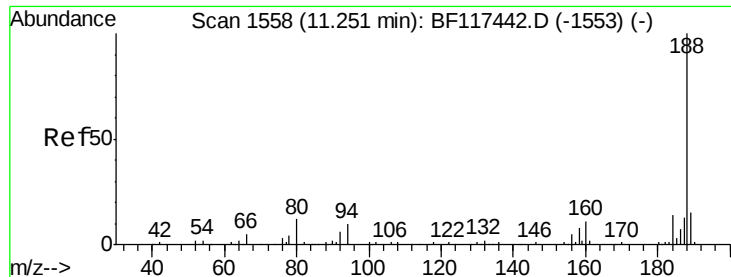
#57
2,4-Dinitrotoluene
Concen: 6.263 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.21 min
Lab File: BF117647.D
Acq: 31 Oct 2019 5:47

Tgt 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#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

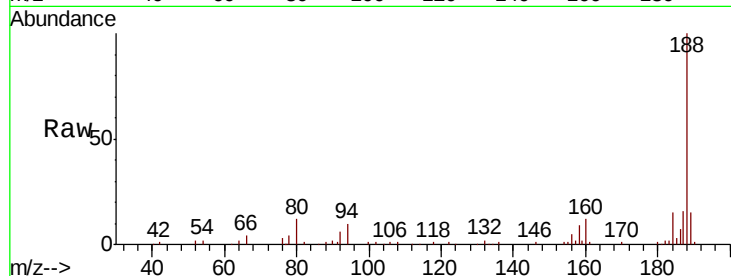




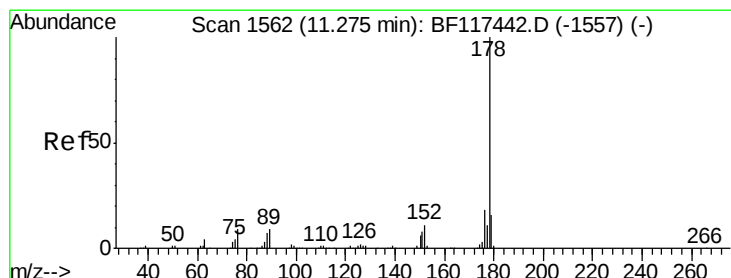
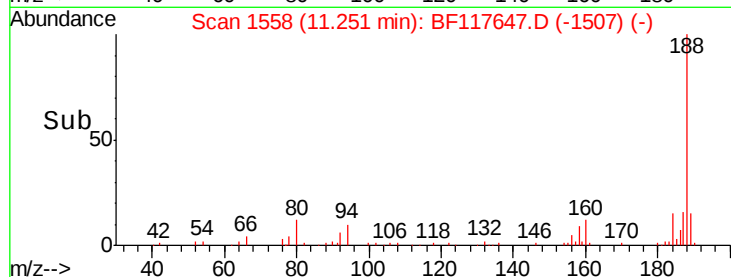
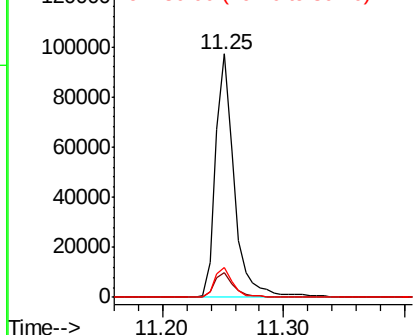
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. -0.00 min
 Lab File: BF117647.D
 Acq: 31 Oct 2019 5:47

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.0	12.0
80	12.1	9.5	14.3

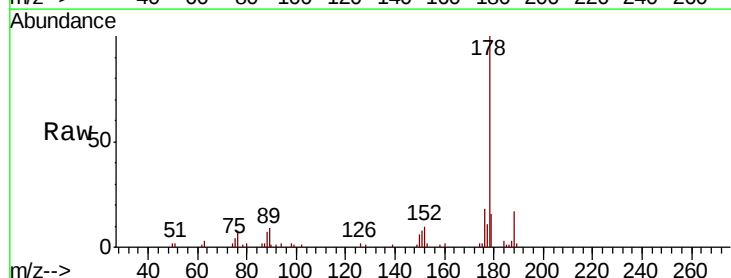


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF1
 Ion 80.00 (79.70 to 80.70): BF1

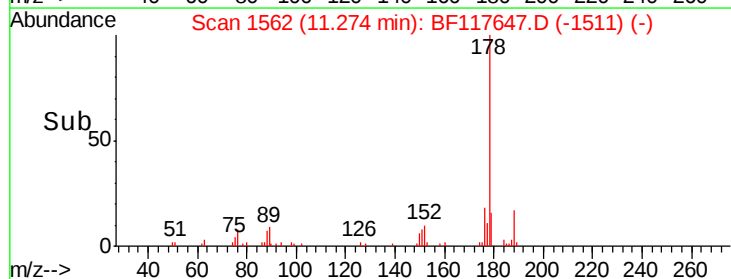
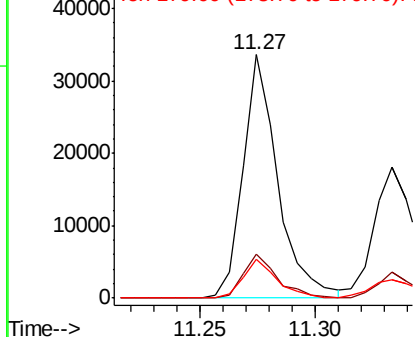


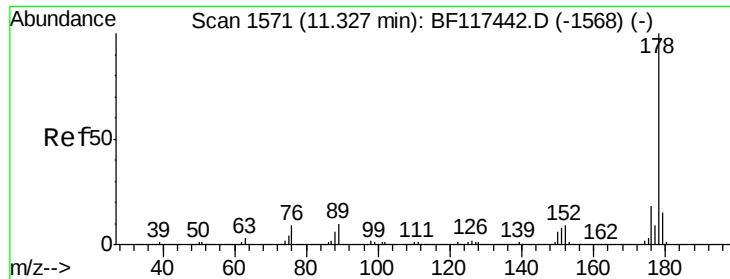
#71
 Phenanthrene
 Concen: 5.931 ng
 RT: 11.27 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: BF117647.D
 Acq: 31 Oct 2019 5:47

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.9	14.6	22.0
179	16.0	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

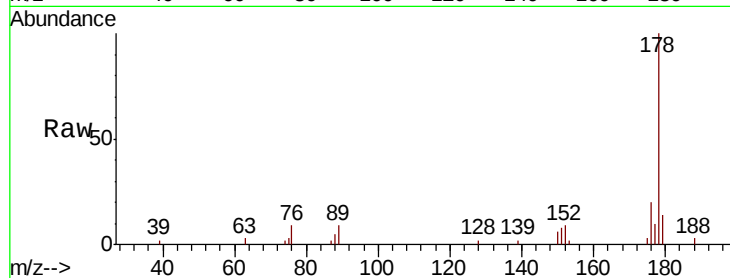




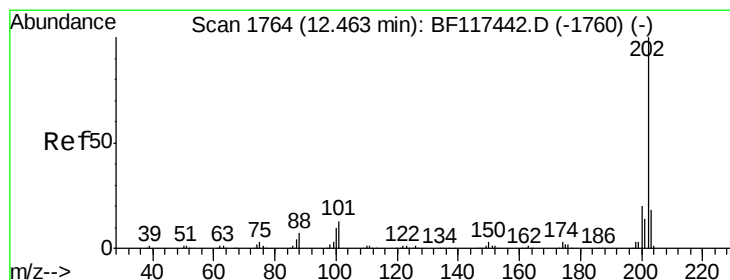
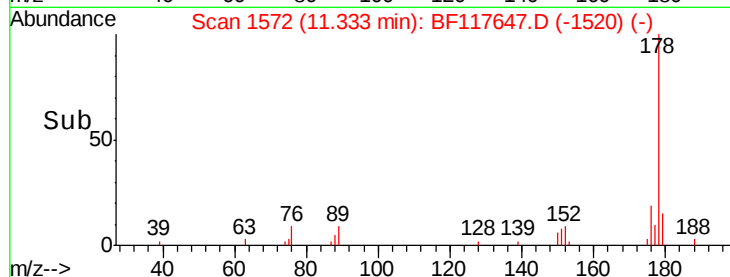
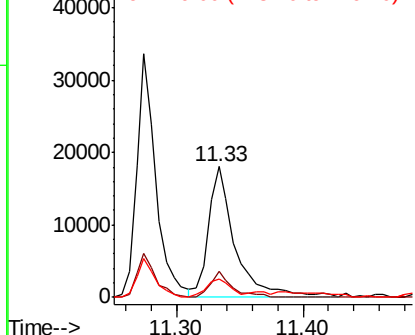
#72
 Anthracene
 Concen: 4.377 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. 0.01 min
 Lab File: BF117647.D
 Acq: 31 Oct 2019 5:47

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:178 Resp: 26825
 Ion Ratio Lower Upper
 178 100
 176 20.0 14.7 22.1
 179 14.4 12.2 18.2

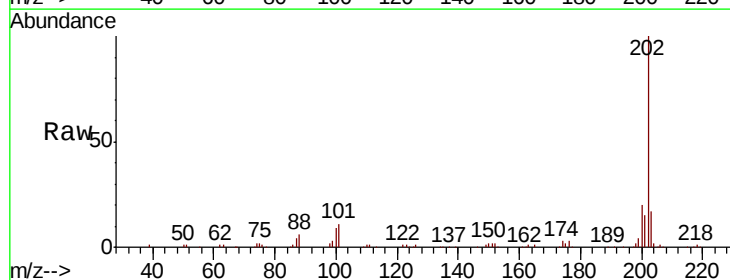


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

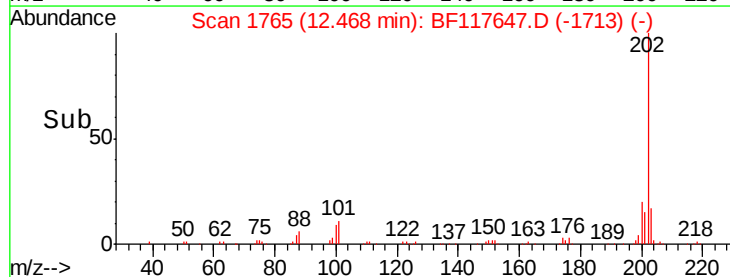
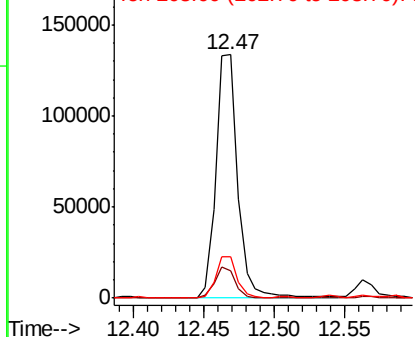


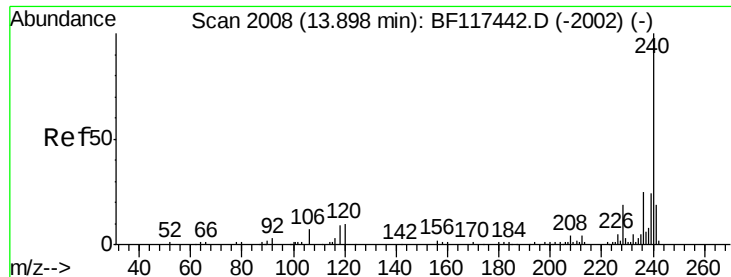
#75
 Fluoranthene
 Concen: 24.084 ng
 RT: 12.47 min Scan# 1765
 Delta R.T. 0.01 min
 Lab File: BF117647.D
 Acq: 31 Oct 2019 5:47

Tgt Ion:202 Resp: 143995
 Ion Ratio Lower Upper
 202 100
 101 10.9 0.0 32.7
 203 17.2 0.0 37.6



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

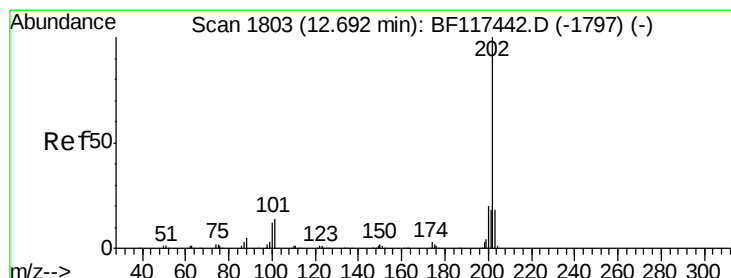
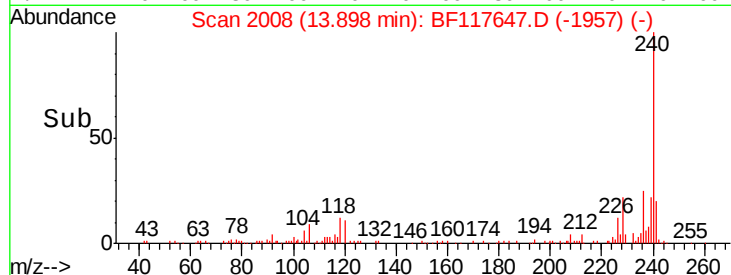
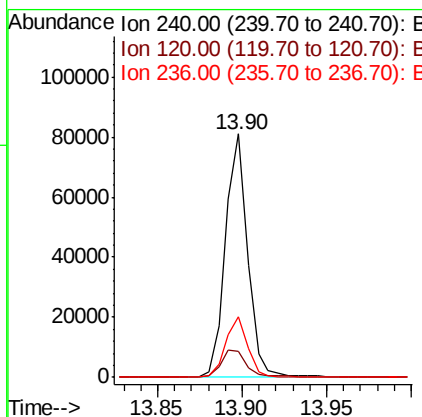
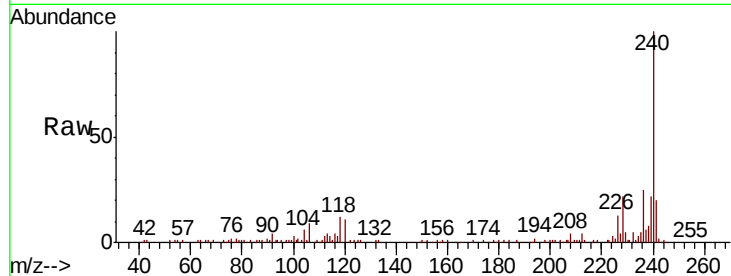




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.00 min
Lab File: BF117647.D
Acq: 31 Oct 2019 5:47

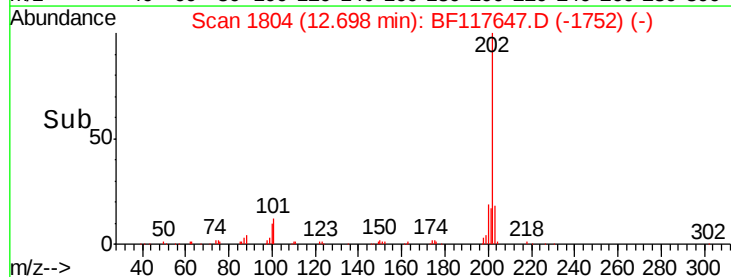
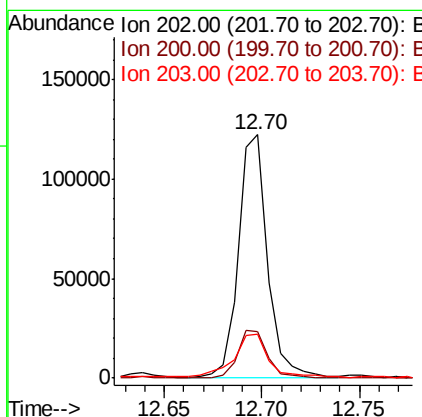
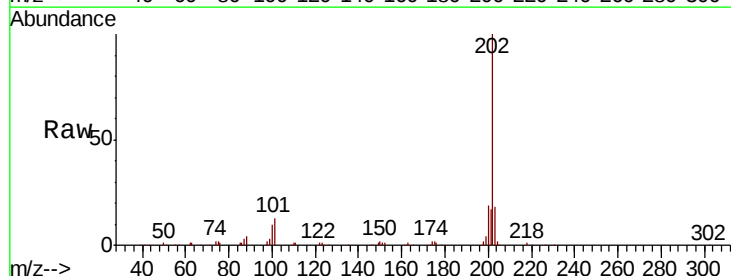
Instrument :
BNA_F
ClientSampled :

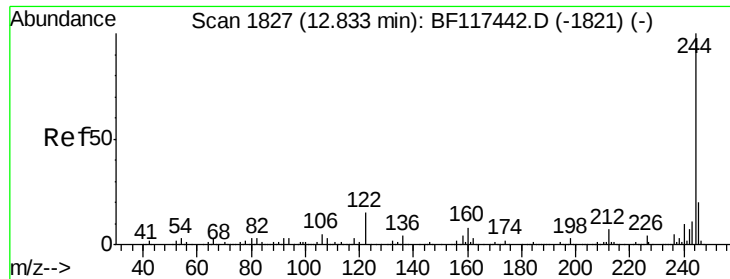
Tot Ion:240 Resp: 74156
Ion Ratio Lower Upper
240 100
120 10.6 8.4 12.6
236 25.1 20.0 30.0



#78
Pyrene
Concen: 19.740 ng
RT: 12.70 min Scan# 1804
Delta R.T. 0.01 min
Lab File: BF117647.D
Acq: 31 Oct 2019 5:47

Tgt Ion:202 Resp: 125739
Ion Ratio Lower Upper
202 100
200 19.2 16.2 24.2
203 18.3 14.0 21.0





#79

Terphenyl-d14

Concen: 2.322 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF117647.D

Acq: 31 Oct 2019 5:47

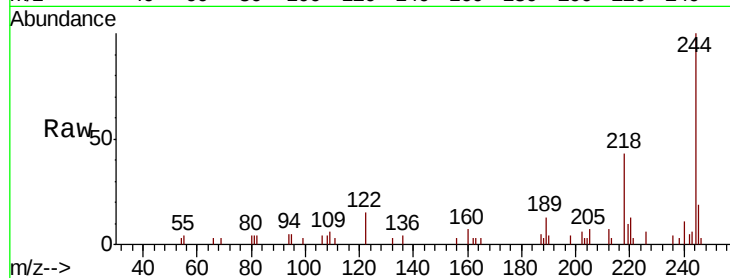
Instrument :

BNA_F

ClientSampled :

Tot Ion:244 Resp: 10557

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.8	8.6
122	15.1	11.8	17.8

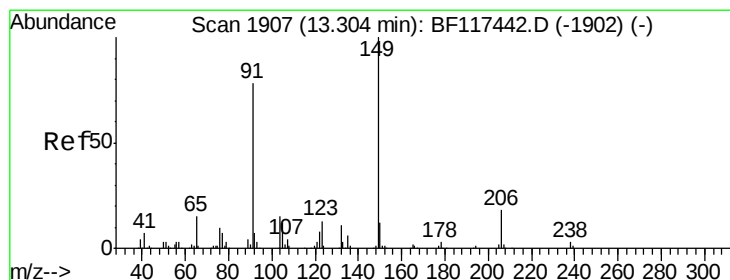
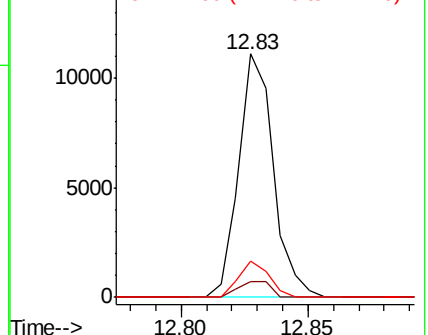
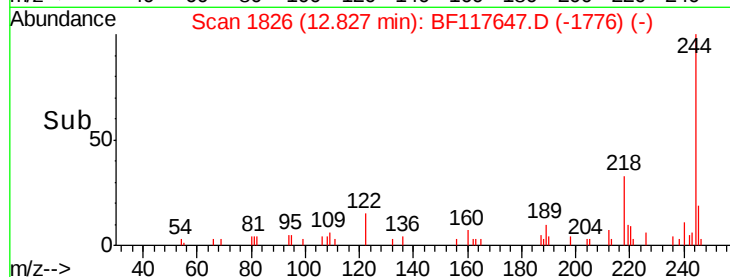


Abundance

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



#80

Butylbenzylphthalate

Concen: 3.045 ng

RT: 13.30 min Scan# 1906

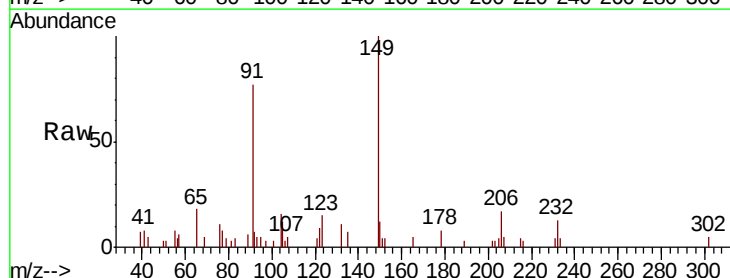
Delta R.T. -0.01 min

Lab File: BF117647.D

Acq: 31 Oct 2019 5:47

Tgt Ion:149 Resp: 9652

Ion	Ratio	Lower	Upper
149	100		
91	76.9	62.1	93.1
206	17.2	14.3	21.5

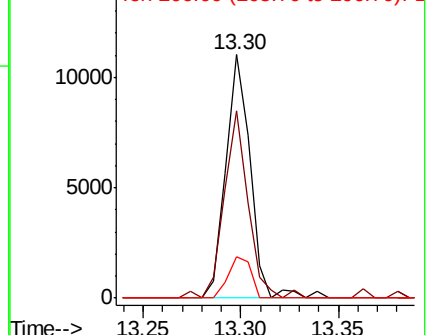
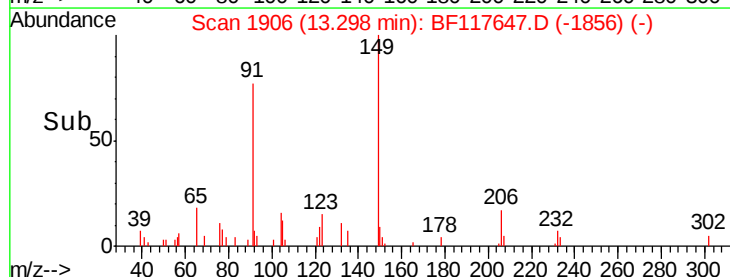


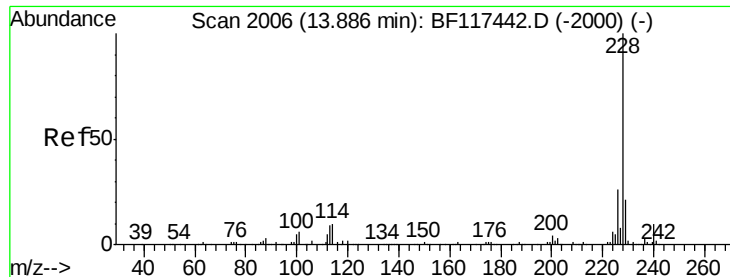
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E

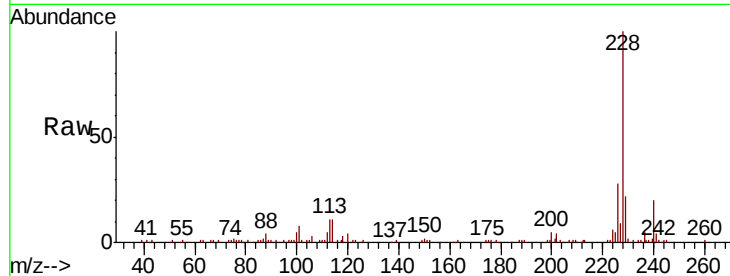




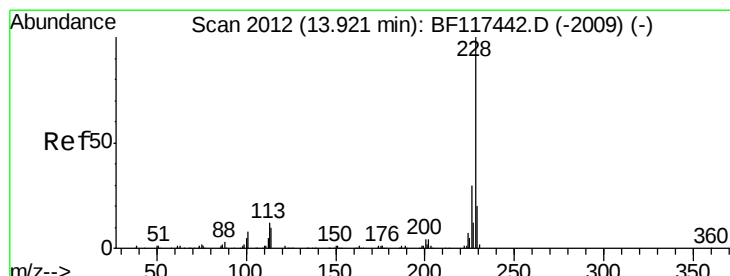
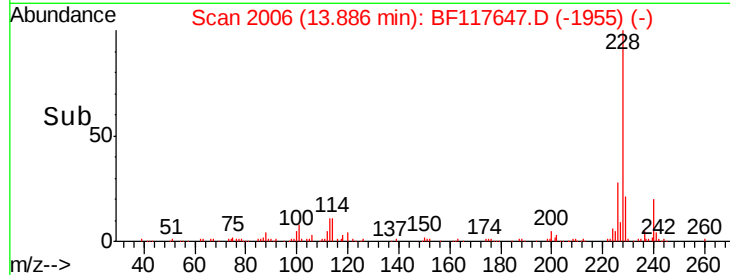
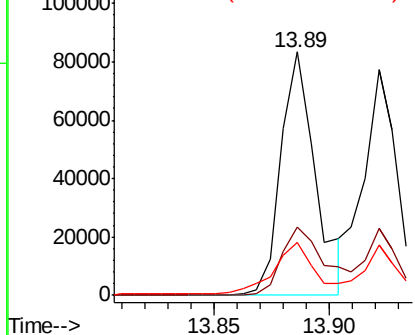
#81
Benzo(a)anthracene
Concen: 17.310 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.00 min
Lab File: BF117647.D
Acq: 31 Oct 2019 5:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion:228 Resp: 86588
Ion Ratio Lower Upper
228 100
226 27.9 21.0 31.4
229 21.6 16.4 24.6

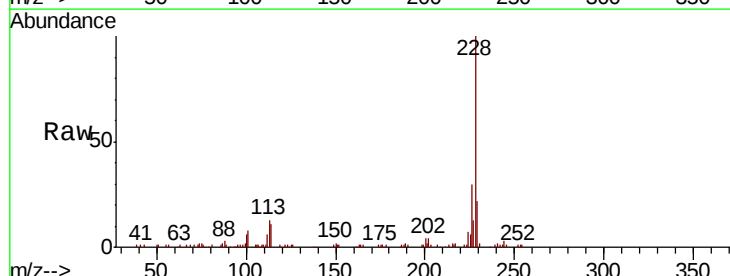


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

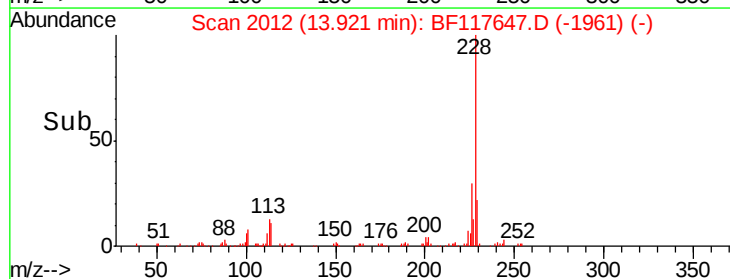
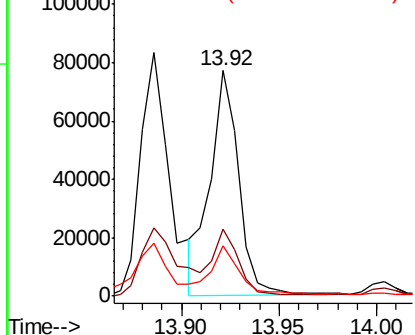


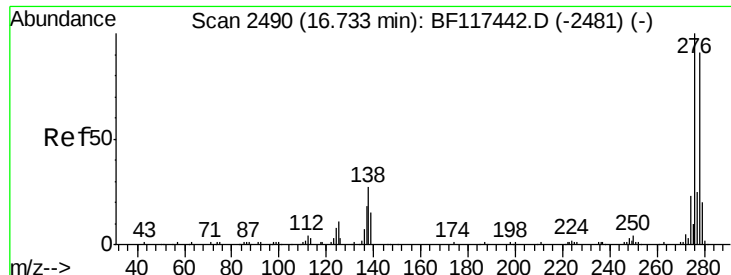
#83
Chrysene
Concen: 15.856 ng
RT: 13.92 min Scan# 2012
Delta R.T. -0.00 min
Lab File: BF117647.D
Acq: 31 Oct 2019 5:47

Tgt Ion:228 Resp: 77730
Ion Ratio Lower Upper
228 100
226 29.6 23.9 35.9
229 22.1 15.8 23.6



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

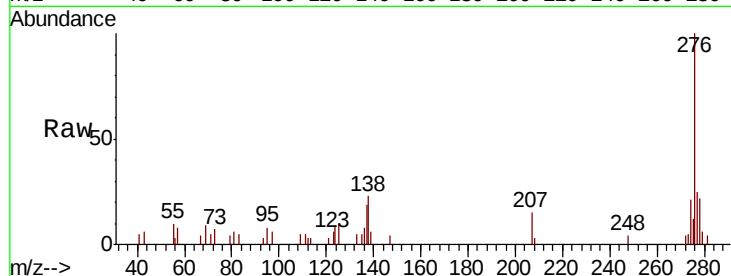




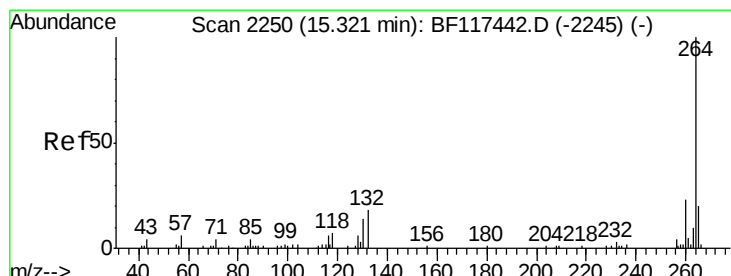
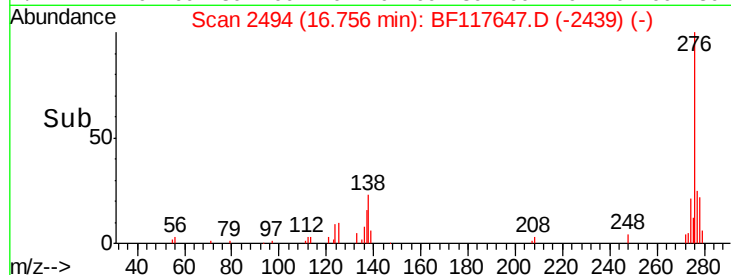
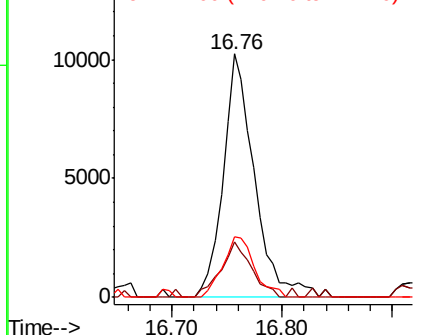
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 5.538 ng
 RT: 16.76 min Scan# 2494
 Delta R.T. 0.02 min
 Lab File: BF117647.D
 Acq: 31 Oct 2019 5:47

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.2	21.8	32.8
277	25.1	20.0	30.0

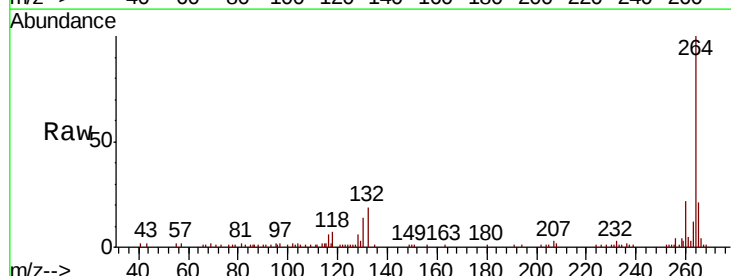


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

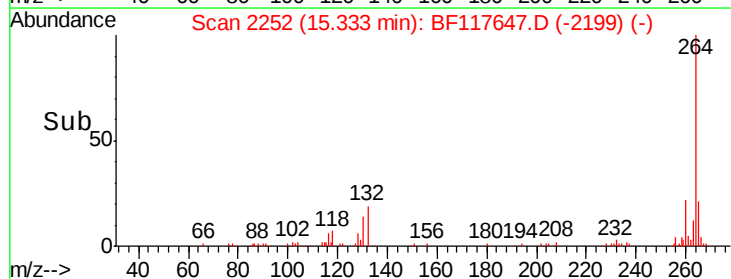
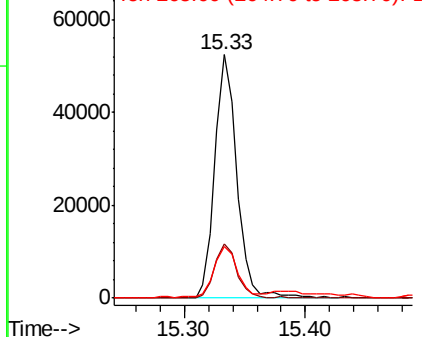


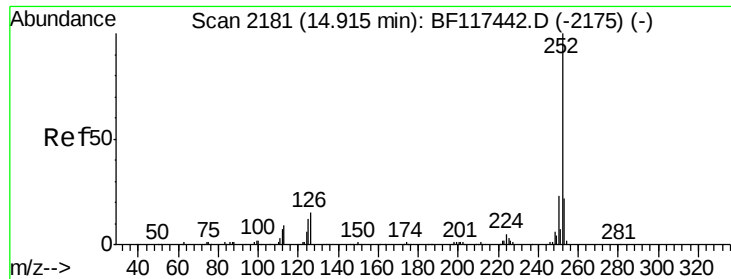
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.33 min Scan# 2252
 Delta R.T. 0.01 min
 Lab File: BF117647.D
 Acq: 31 Oct 2019 5:47

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.1	18.4	27.6
265	21.4	16.1	24.1



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 30.524 ng

RT: 14.93 min Scan# 2183

Delta R.T. 0.01 min

Lab File: BF117647.D

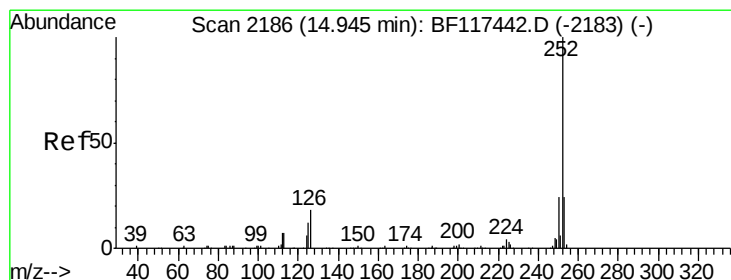
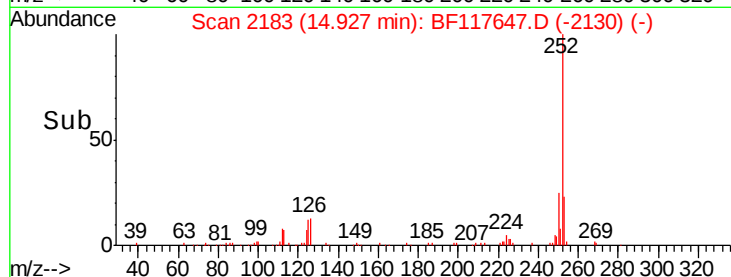
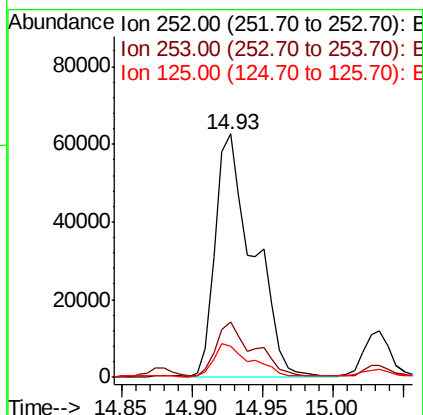
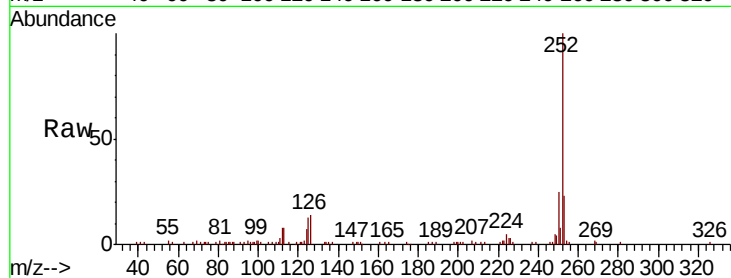
Acq: 31 Oct 2019 5:47

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	252	Resp:	118606
Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.6
125	12.8	9.9	14.9



#89

Benzo(k)fluoranthene

Concen: 29.782 ng

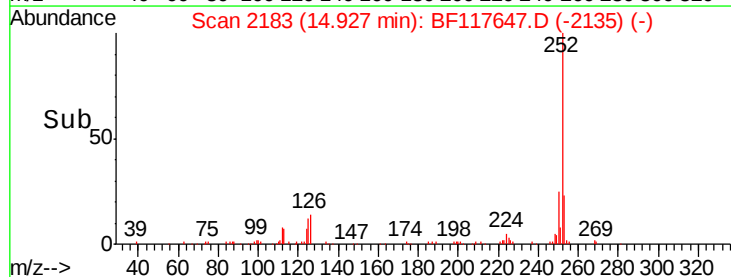
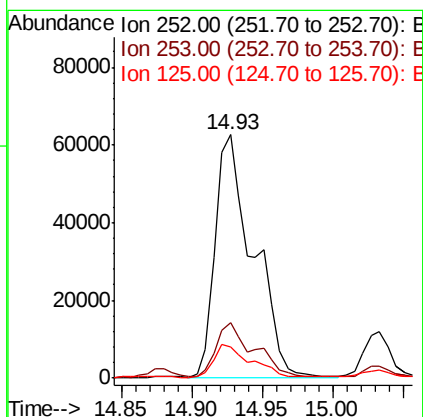
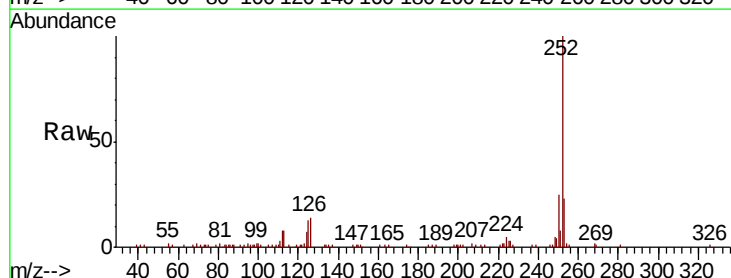
RT: 14.93 min Scan# 2183

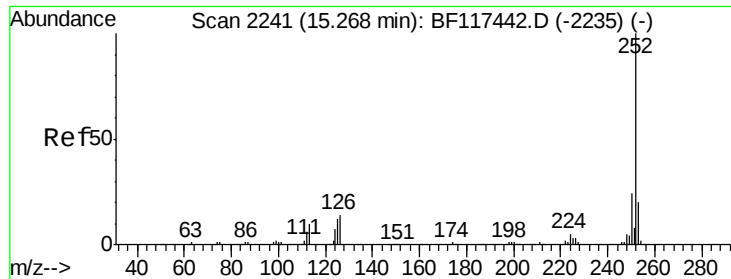
Delta R.T. -0.02 min

Lab File: BF117647.D

Acq: 31 Oct 2019 5:47

Tgt Ion:	252	Resp:	118606
Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.0	27.0
125	12.8	8.9	13.3

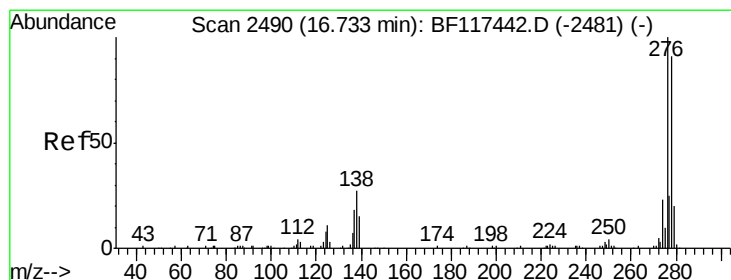
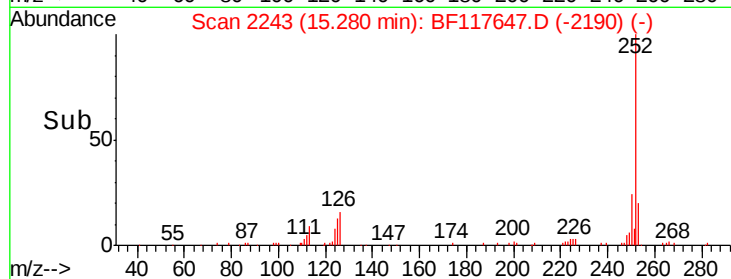
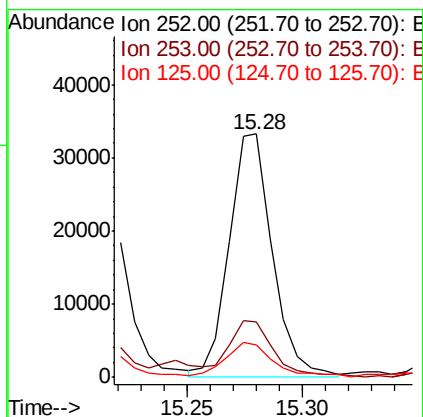
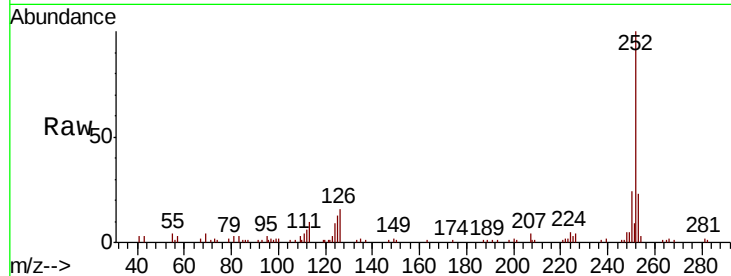




#90
Benzo(a)pyrene
Concen: 12.328 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF117647.D
Acq: 31 Oct 2019 5:47

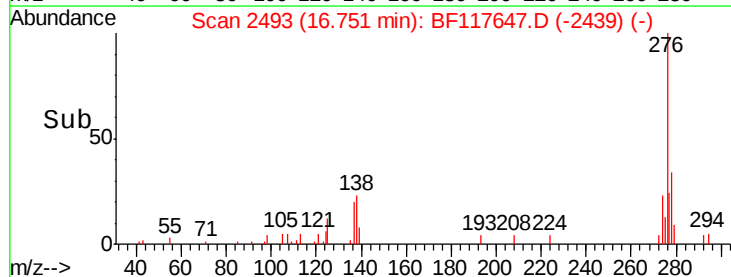
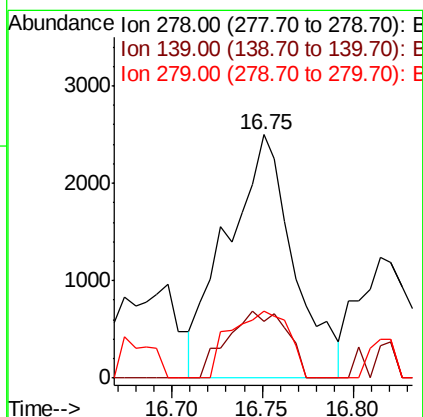
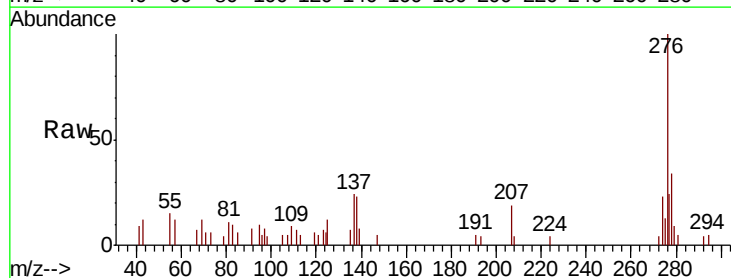
Instrument :
BNA_F
ClientSampleId :

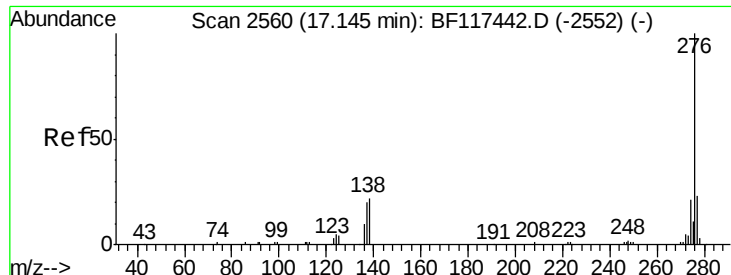
Tot Ion:252 Resp: 43553
Ion Ratio Lower Upper
252 100
253 22.9 16.3 24.5
125 13.4 9.2 13.8



#91
Dibenzo(a,h)anthracene
Concen: 2.084 ng
RT: 16.75 min Scan# 2493
Delta R.T. 0.02 min
Lab File: BF117647.D
Acq: 31 Oct 2019 5:47

Tgt Ion:278 Resp: 6366
Ion Ratio Lower Upper
278 100
139 23.0 13.4 20.0#
279 27.4 17.8 26.6#

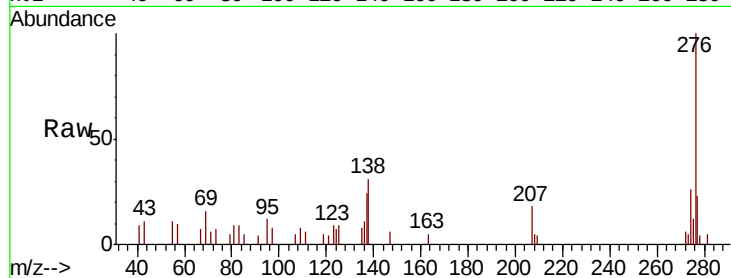




#92
 Benzo(a,h,i)perylene
 Concen: 5.750 ng
 RT: 17.19 min Scan# 2568
 Delta R.T. 0.05 min
 Lab File: BF117647.D
 Acq: 31 Oct 2019 5:47

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	276	Resp:	16620
Ion	Ratio	Lower	Upper
276	100		
277	22.5	18.4	27.6
138	31.2	17.8	26.6



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

