

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
 Data File : BF117634.D
 Acq On : 30 Oct 2019 19:32
 Operator : JU
 Sample : K5542-13 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 31 01:26:05 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	40324	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	155464	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	72485	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	109101	20.00	ng	0.00
76) Chrysene-d12	13.90	240	79723	20.00	ng	0.00
87) Perylene-d12	15.33	264	65273	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	112065	41.34	ng	0.00
7) Phenol-d6	6.39	99	152898	42.00	ng	0.00
23) Nitrobenzene-d5	7.30	82	85867	27.27	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	22051	35.16	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	143396	27.87	ng	-0.01
79) Terphenyl-d14	12.83	244	119747	24.50	ng	0.00

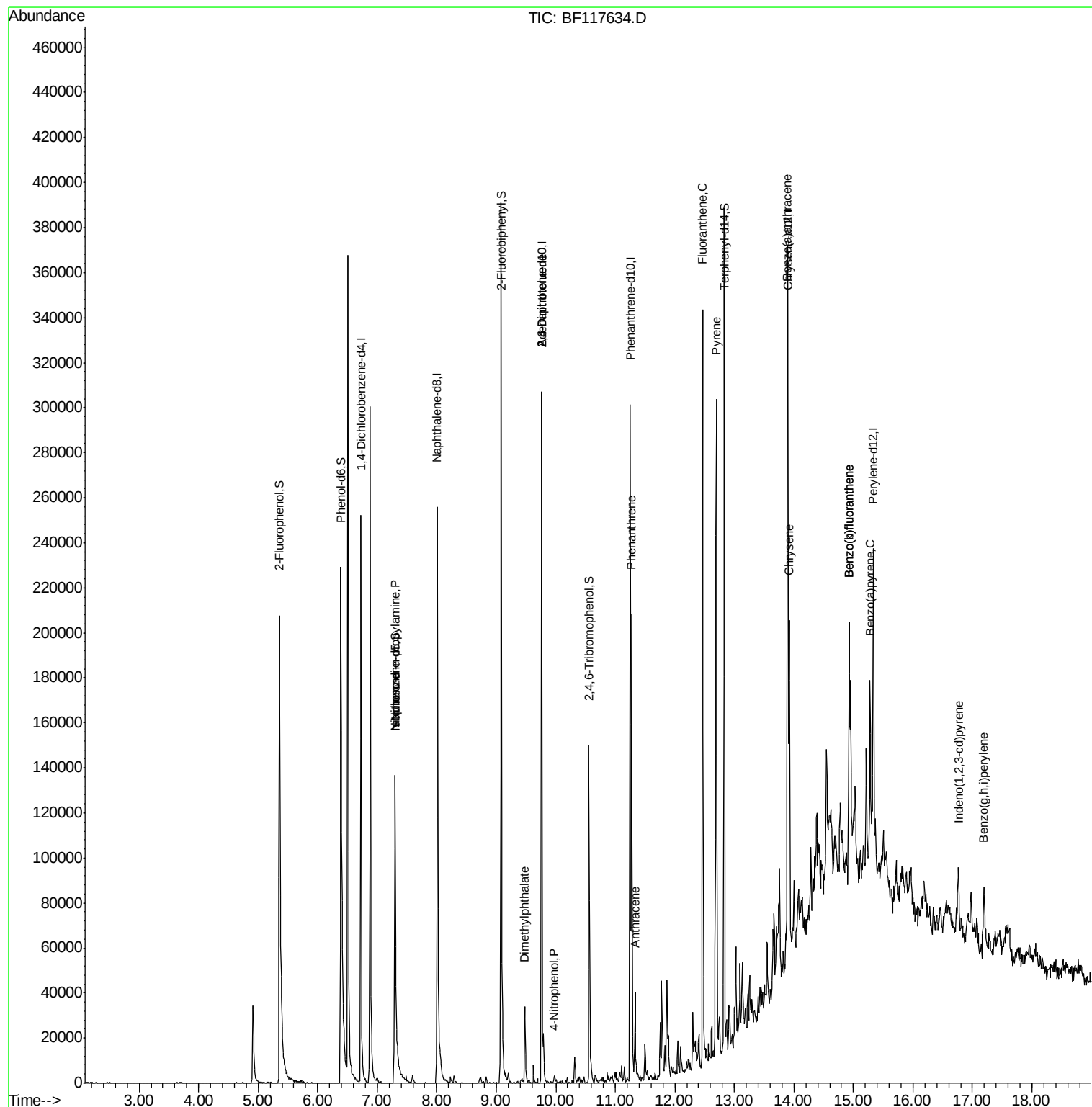
Target Compounds				Qvalue		
9) Benzaldehyde	6.51	77	2931	Below Cal	#	78
19) n-Nitroso-di-n-propylamine	7.30	70	10513	4.729 ng	#	75
25) Isophorone	7.30	82	85867	15.762 ng	#	65
50) Dimethylphthalate	9.48	163	19074	3.691 ng		99
51) 2,6-Dinitrotoluene	9.76	165	9147	8.483 ng	#	22
56) 4-Nitrophenol	9.98	139	872	5.503 ng	#	6
57) 2,4-Dinitrotoluene	9.76	165	9147	6.380 ng	#	12
71) Phenanthrene	11.27	178	81449	12.857 ng		98
72) Anthracene	11.33	178	21821	3.357 ng		99
75) Fluoranthene	12.47	202	137672	21.708 ng		97
77) Benzidine	12.83	184	1749	Below Cal	#	71
78) Pyrene	12.70	202	120786	17.639 ng		99
81) Benzo(a)anthracene	13.89	228	59428	11.051 ng		99
83) Chrysene	13.92	228	54533	10.347 ng		96
86) Indeno(1,2,3-cd)pyrene	16.76	276	21460	5.454 ng		97
88) Benzo(b)fluoranthene	14.93	252	73252	19.005 ng	#	93
89) Benzo(k)fluoranthene	14.93	252	73252	18.542 ng	#	92
90) Benzo(a)pyrene	15.28	252	36210	10.332 ng	#	88
92) Benzo(a,h,i)perylene	17.19	276	19440	6.780 ng	#	92

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

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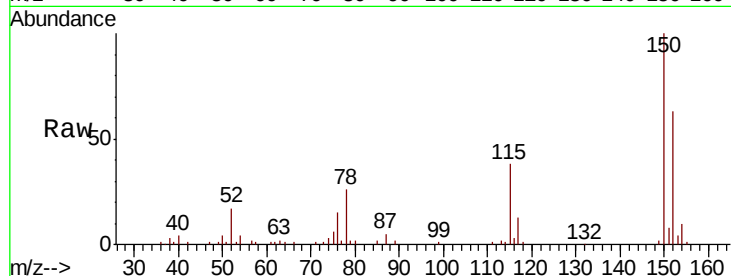


#1

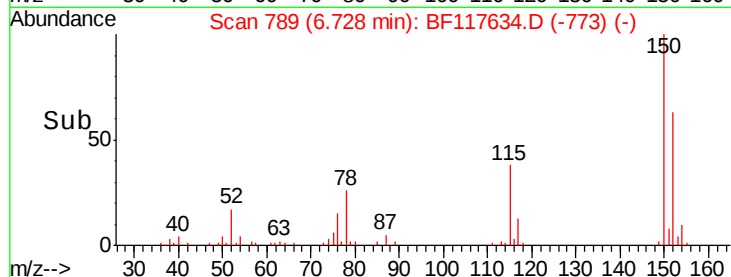
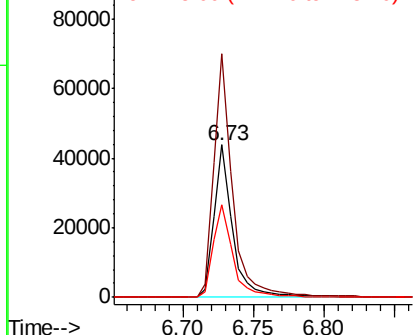
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117634.D
Acq: 30 Oct 2019 19:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 40324
Ion Ratio Lower Upper
152 100
150 159.6 126.8 190.2
115 61.0 51.6 77.4



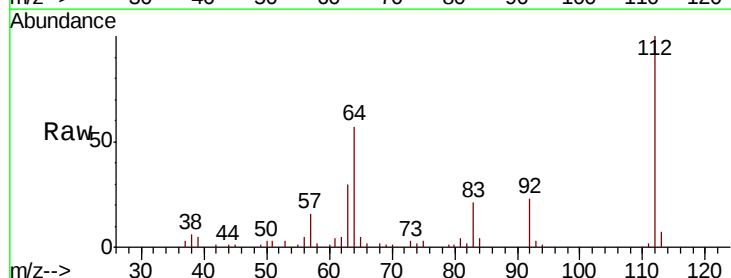
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



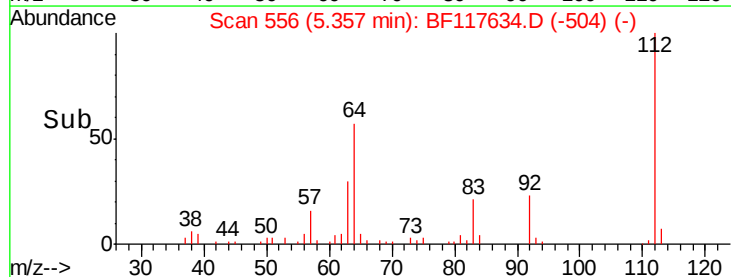
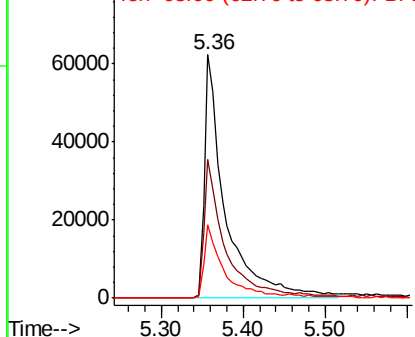
#5

2-Fluorophenol
Concen: 41.345 ng
RT: 5.36 min Scan# 556
Delta R.T. 0.01 min
Lab File: BF117634.D
Acq: 30 Oct 2019 19:32

Tgt Ion:112 Resp: 112065
Ion Ratio Lower Upper
112 100
64 56.8 44.1 66.1
63 30.0 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: 41.999 ng

RT: 6.39 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF117634.D

Acq: 30 Oct 2019 19:32

Instrument :
BNA_F
ClientSampled :

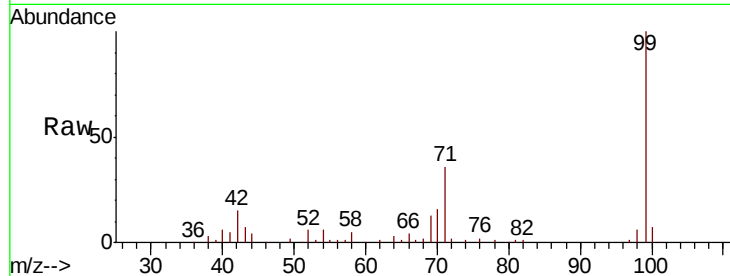
Tot Ion: 99 Resp: 152898

Ion Ratio Lower Upper

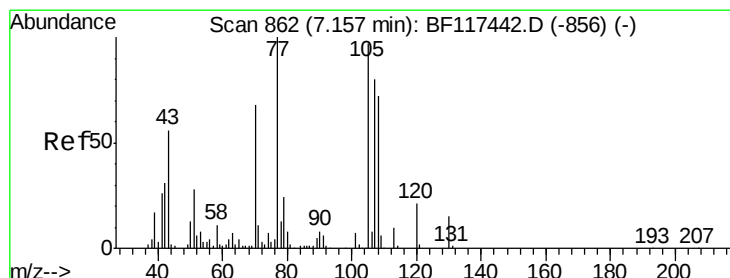
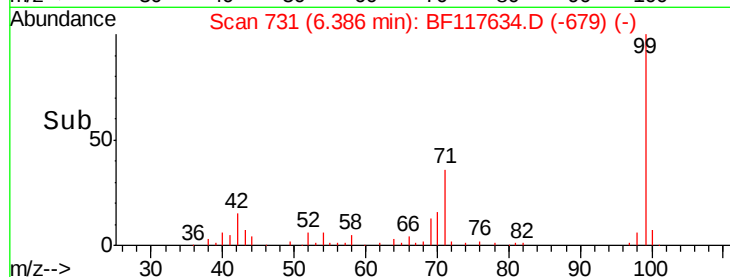
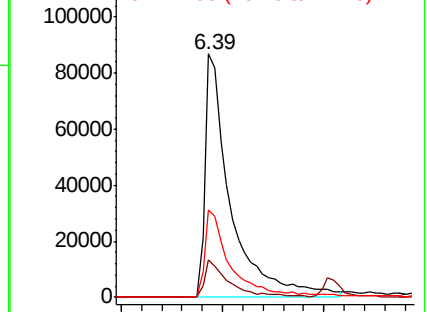
99 100

42 15.3 12.8 19.2

71 36.1 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



#19

n-Nitroso-di-n-propylamine

Concen: 4.729 ng

RT: 7.30 min Scan# 886

Delta R.T. 0.14 min

Lab File: BF117634.D

Acq: 30 Oct 2019 19:32

Tgt Ion: 70 Resp: 10513

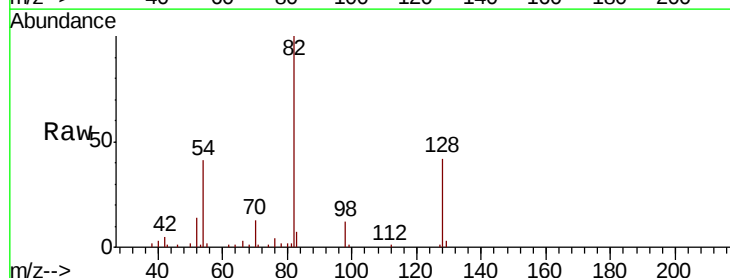
Ion Ratio Lower Upper

70 100

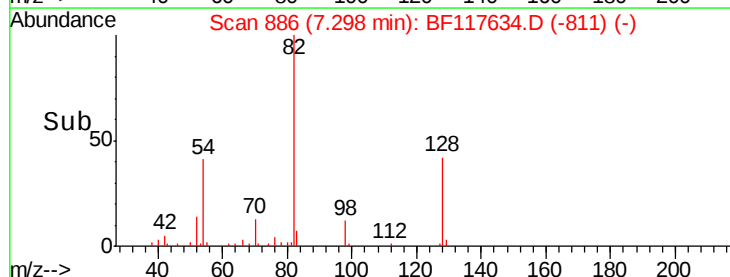
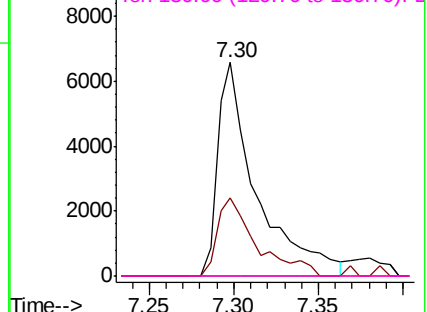
42 36.7 36.7 55.1#

101 0.0 8.3 12.5#

130 0.0 18.1 27.1#



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: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF117634.D

Acq: 30 Oct 2019 19:32

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 155464

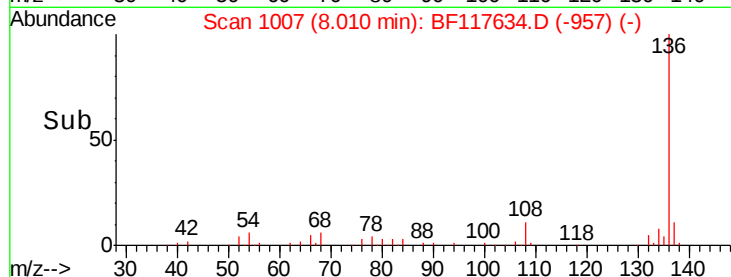
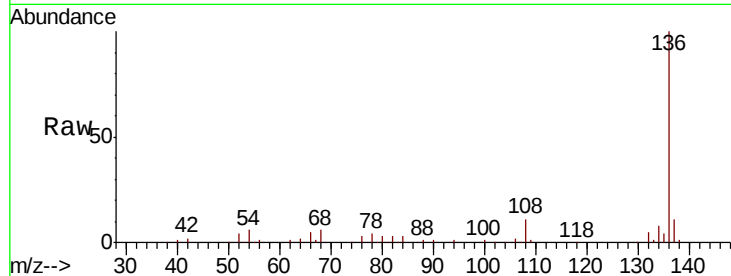
Ion Ratio Lower Upper

136 100

137 11.1 8.2 12.4

54 6.0 4.5 6.7

68 5.5 4.3 6.5

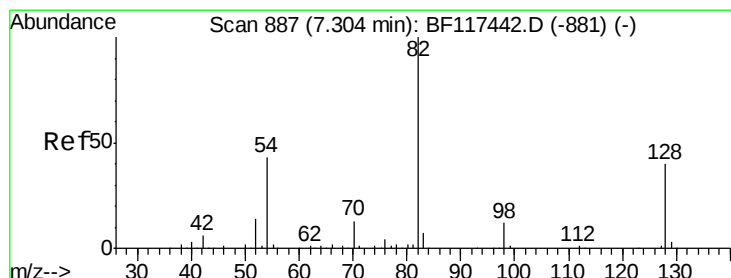
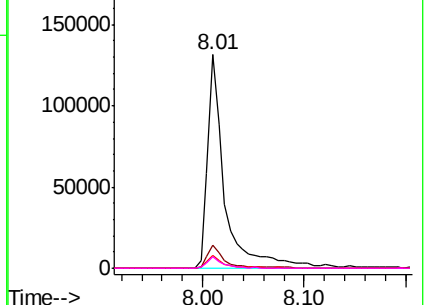


Abundance Ion 136.00 (135.70 to 136.70): E

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: 27.267 ng

RT: 7.30 min Scan# 886

Delta R.T. -0.01 min

Lab File: BF117634.D

Acq: 30 Oct 2019 19:32

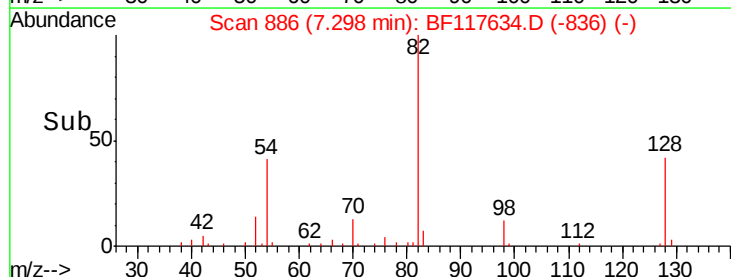
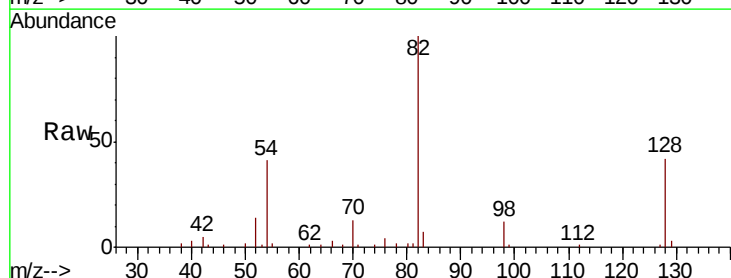
Tgt Ion: 82 Resp: 85867

Ion Ratio Lower Upper

82 100

128 41.9 32.2 48.2

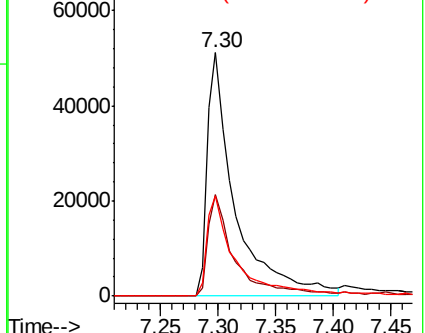
54 41.0 34.2 51.2

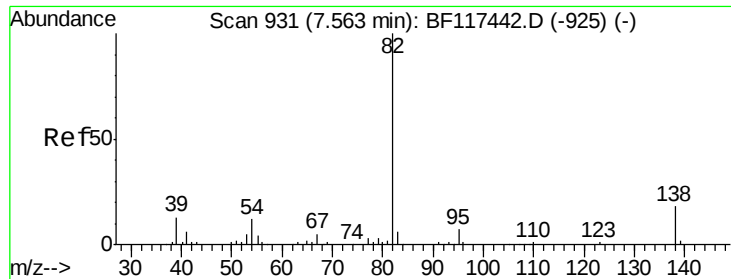


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 15.762 ng

RT: 7.30 min Scan# 886

Delta R.T. -0.26 min

Lab File: BF117634.D

Acq: 30 Oct 2019 19:32

Instrument :

BNA_F

ClientSampleId :

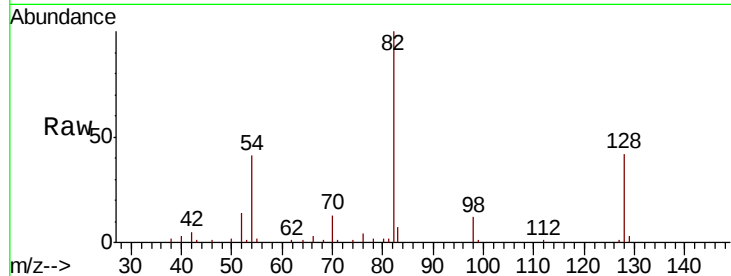
Tot Ion: 82 Resp: 85867

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

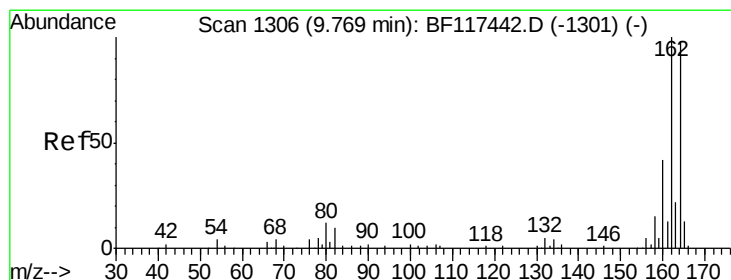
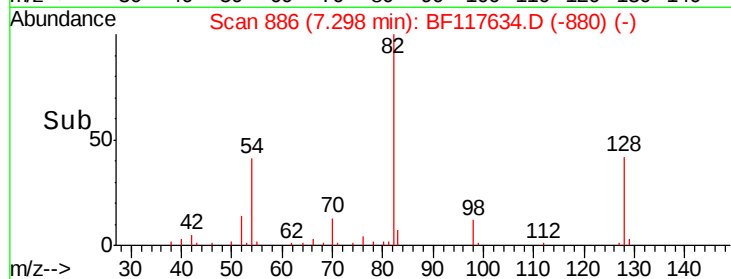
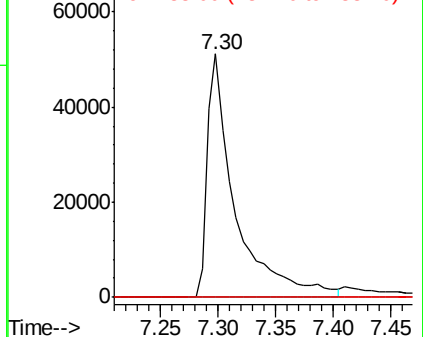
138 0.0 14.2 21.2#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF117634.D

Acq: 30 Oct 2019 19:32

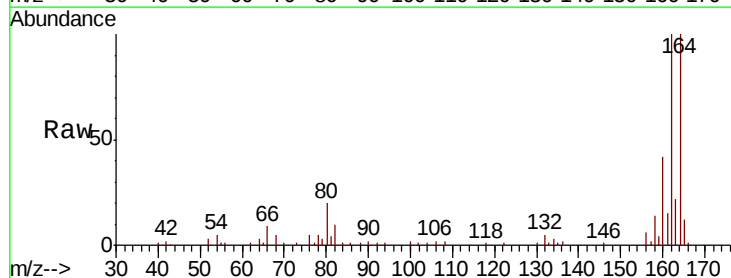
Tgt Ion: 164 Resp: 72485

Ion Ratio Lower Upper

164 100

162 100.3 81.8 122.6

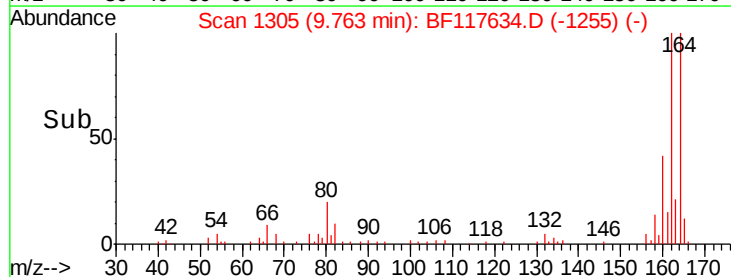
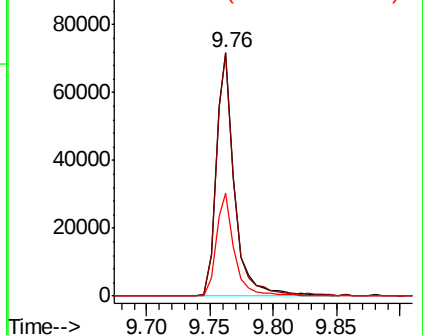
160 42.3 34.4 51.6

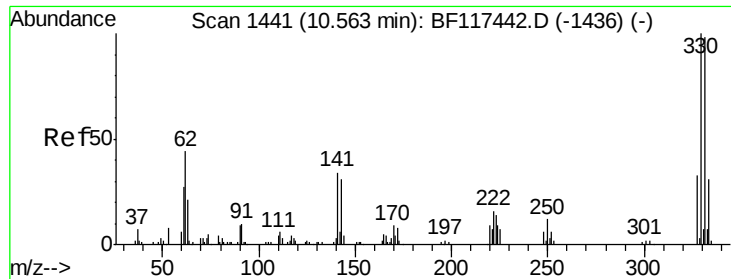


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 35.159 ng

RT: 10.56 min Scan# 1441

Delta R.T. -0.00 min

Lab File: BF117634.D

Acq: 30 Oct 2019 19:32

Instrument :

BNA_F

ClientSampleId :

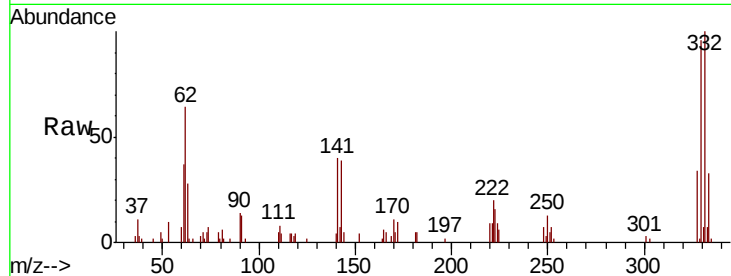
Tot Ion:330 Resp: 22051

Ion Ratio Lower Upper

330 100

332 97.2 78.5 117.7

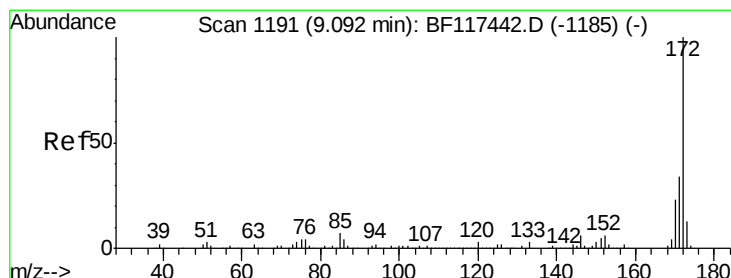
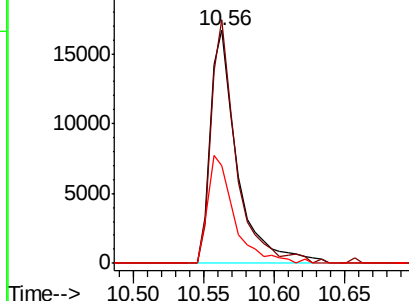
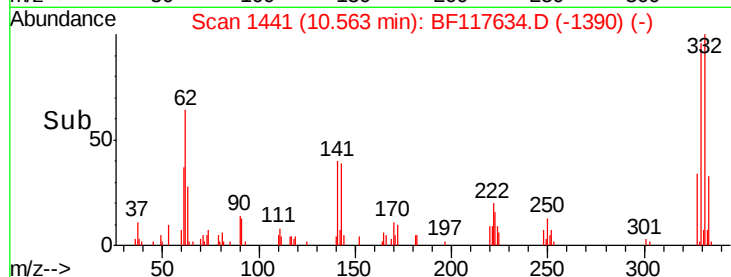
141 45.7 37.0 55.6



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: 27.874 ng

RT: 9.08 min Scan# 1189

Delta R.T. -0.01 min

Lab File: BF117634.D

Acq: 30 Oct 2019 19:32

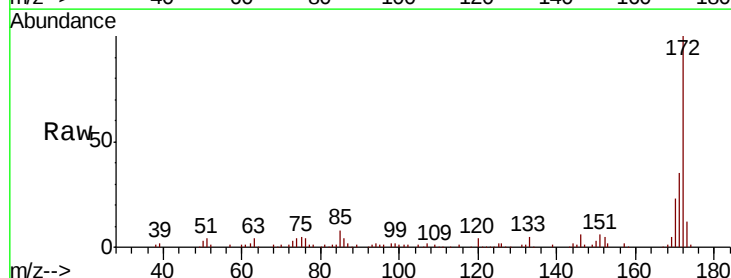
Tgt Ion:172 Resp: 143396

Ion Ratio Lower Upper

172 100

171 35.3 27.5 41.3

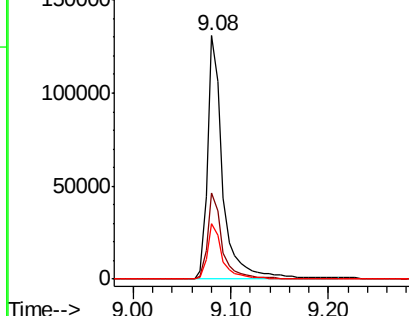
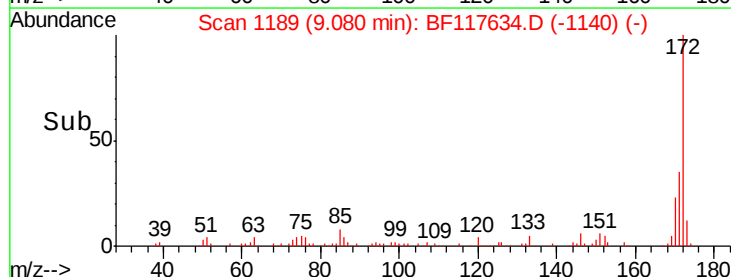
170 22.5 18.6 27.8

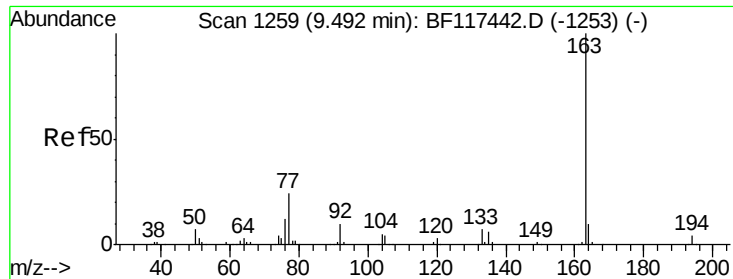


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

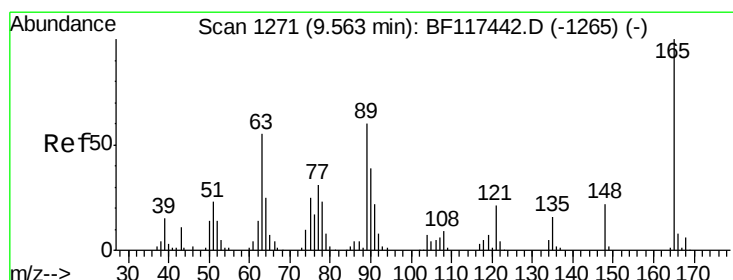
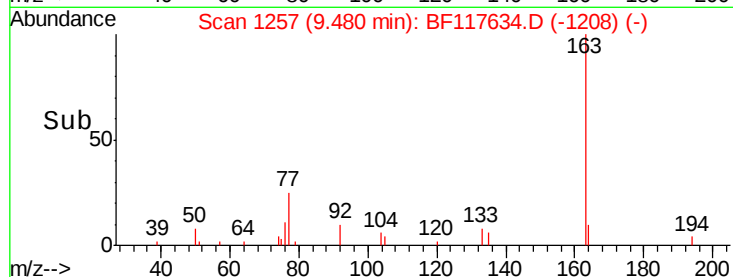
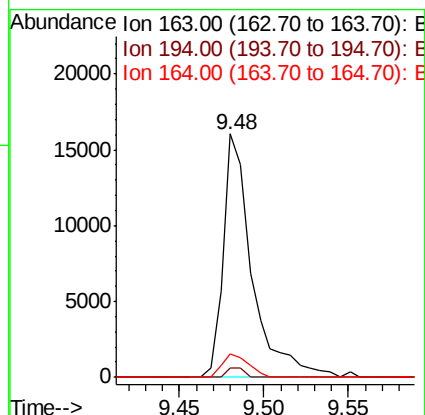
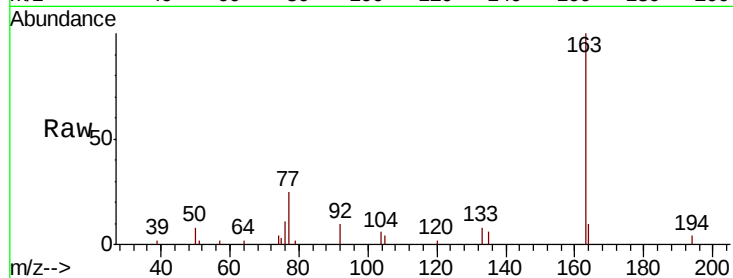




#50
Dimethylphthalate
Concen: 3.691 ng
RT: 9.48 min Scan# 1257
Delta R.T. -0.01 min
Lab File: BF117634.D
Acq: 30 Oct 2019 19:32

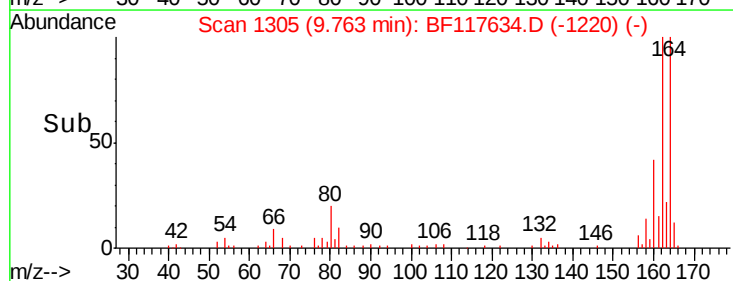
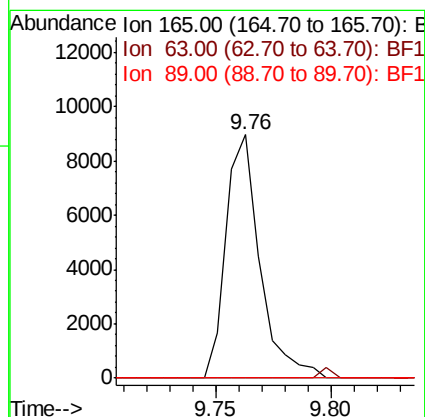
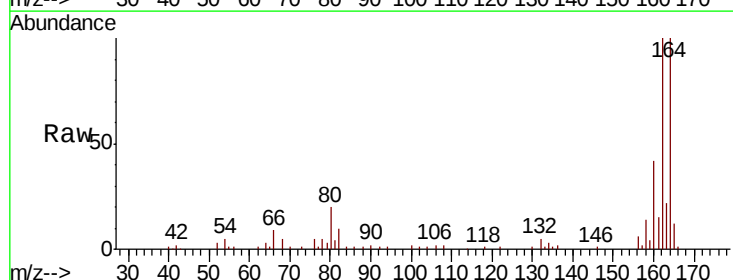
Instrument :
BNA_F
ClientSampleId :

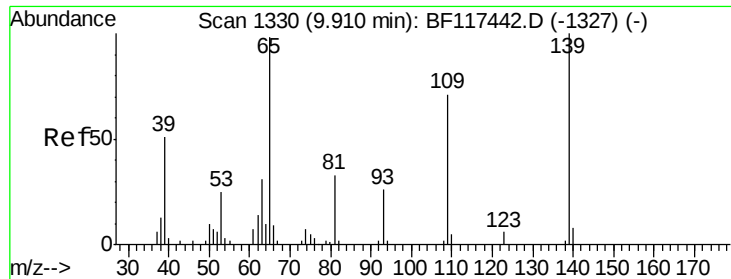
Tot Ion:163 Resp: 19074
Ion Ratio Lower Upper
163 100
194 4.0 2.9 4.3
164 9.9 8.2 12.2



#51
2,6-Dinitrotoluene
Concen: 8.483 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.20 min
Lab File: BF117634.D
Acq: 30 Oct 2019 19:32

Tgt Ion:165 Resp: 9147
Ion Ratio Lower Upper
165 100
63 0.0 43.8 65.8#
89 0.0 47.6 71.4#

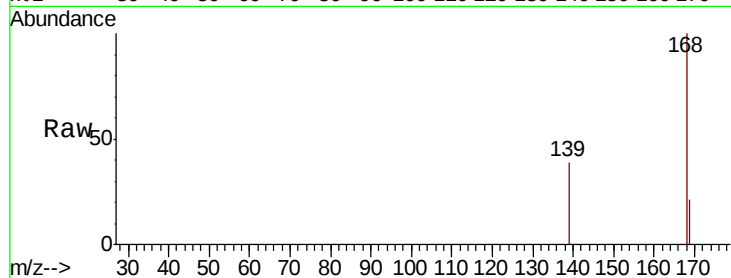




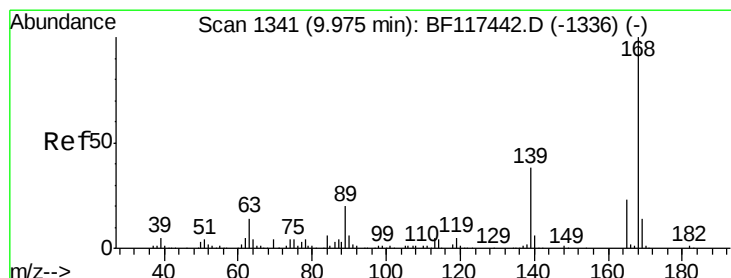
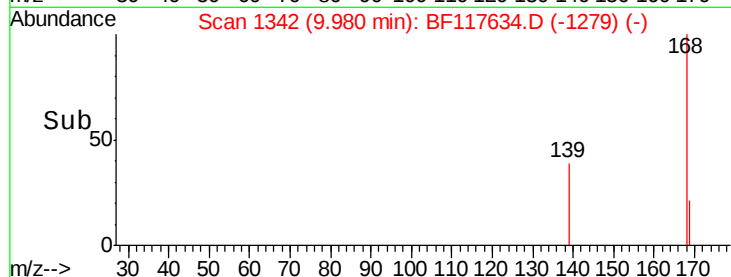
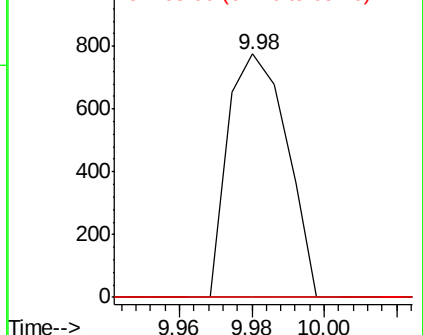
#56
4-Nitrophenol
Concen: 5.503 ng
RT: 9.98 min Scan# 1342
Delta R.T. 0.07 min
Lab File: BF117634.D
Acq: 30 Oct 2019 19:32

Instrument :
BNA_F
ClientSampled :

Tot Ion:139 Resp: 872
Ion Ratio Lower Upper
139 100
109 0.0 51.4 91.4#
65 0.0 79.4 119.4#

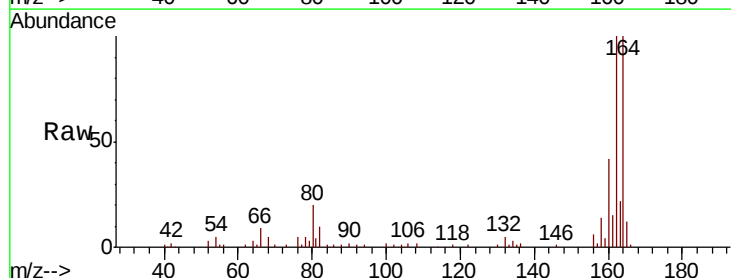


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

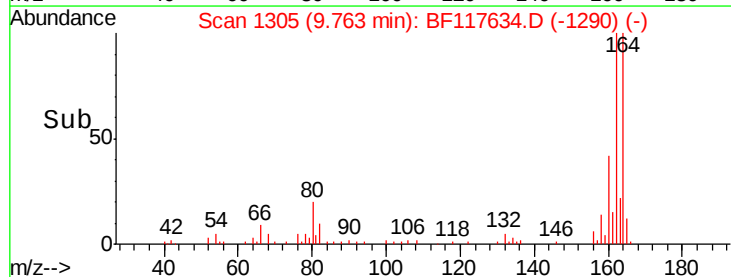
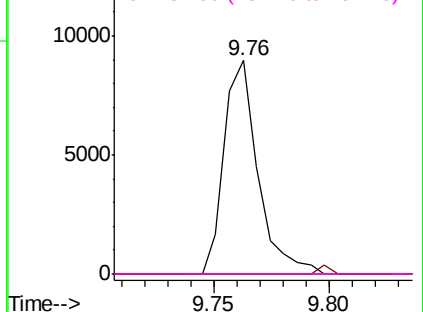


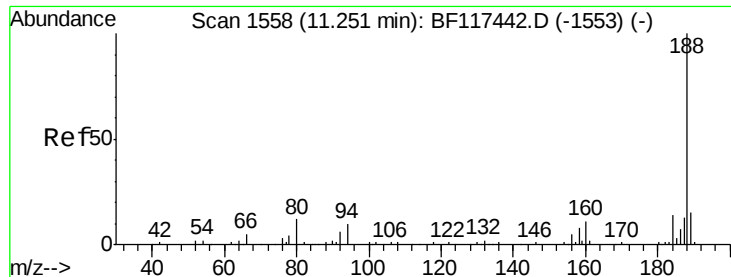
#57
2,4-Dinitrotoluene
Concen: 6.380 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.21 min
Lab File: BF117634.D
Acq: 30 Oct 2019 19:32

Tgt Ion:165 Resp: 9147
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): BF1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.00 min

Lab File: BF117634.D

Acq: 30 Oct 2019 19:32

Instrument :

BNA_F

ClientSampleId :

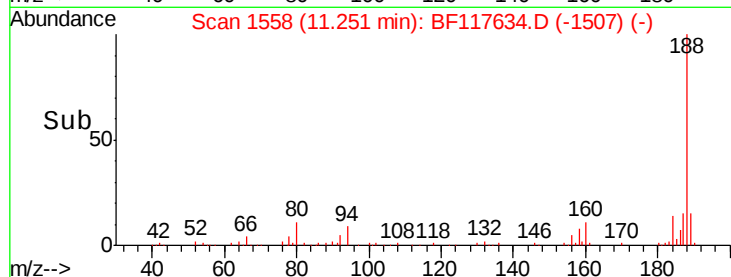
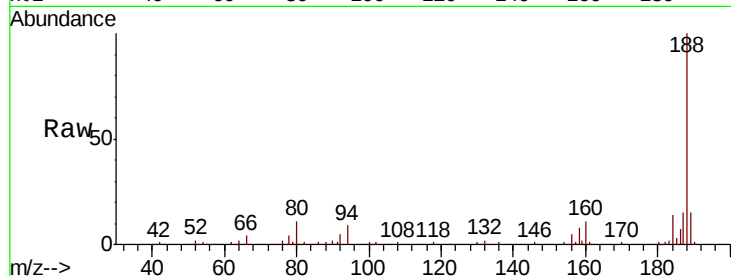
Tot Ion:188 Resp: 109101

Ion Ratio Lower Upper

188 100

94 8.8 8.0 12.0

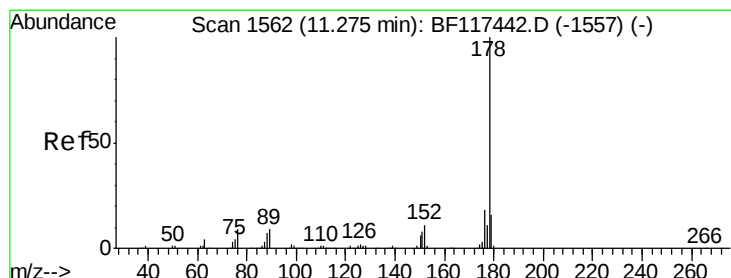
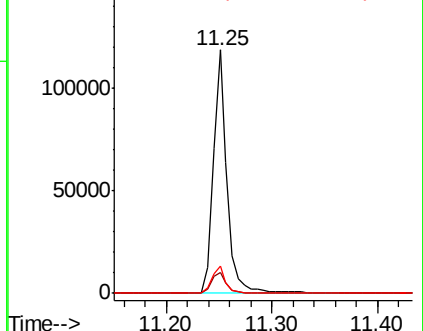
80 11.0 9.5 14.3



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: 12.857 ng

RT: 11.27 min Scan# 1562

Delta R.T. -0.00 min

Lab File: BF117634.D

Acq: 30 Oct 2019 19:32

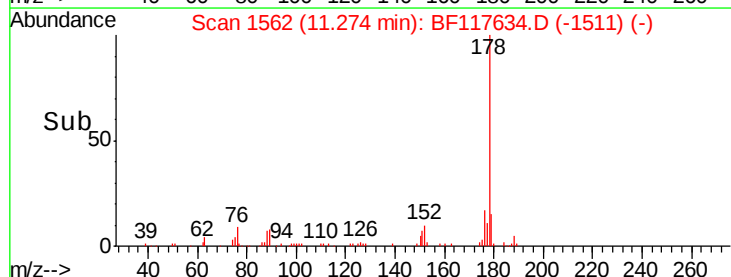
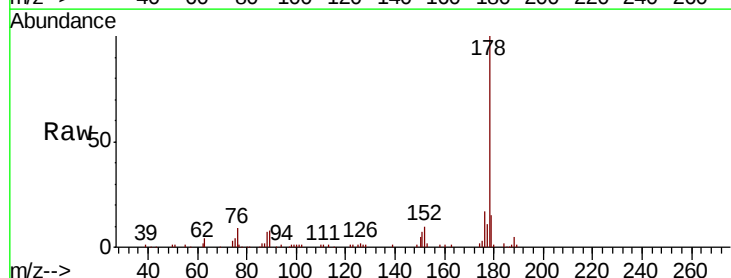
Tgt Ion:178 Resp: 81449

Ion Ratio Lower Upper

178 100

176 17.0 14.6 22.0

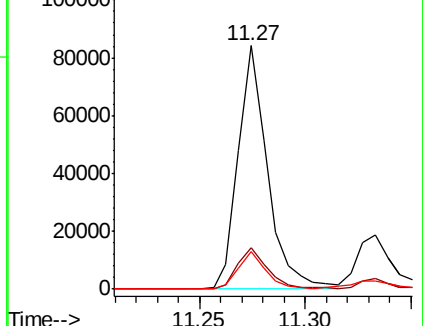
179 15.2 12.6 19.0

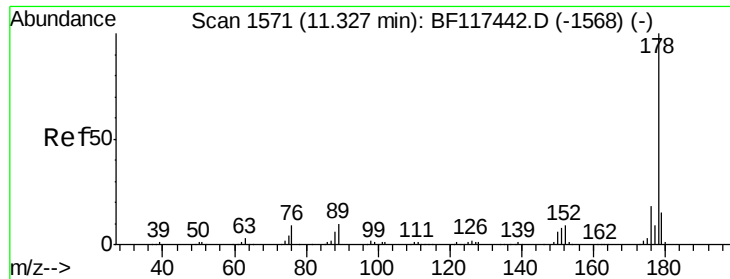


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

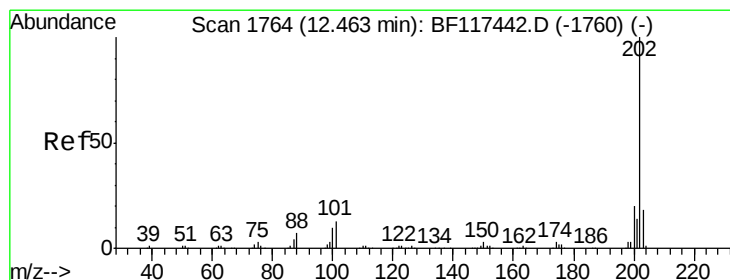
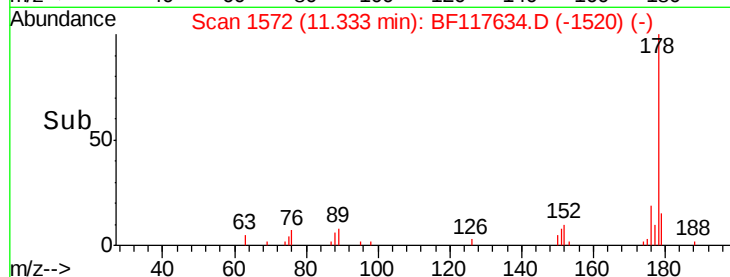
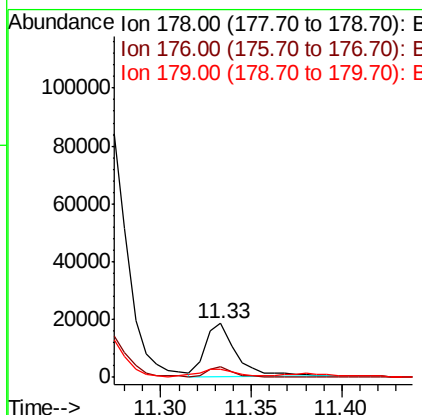
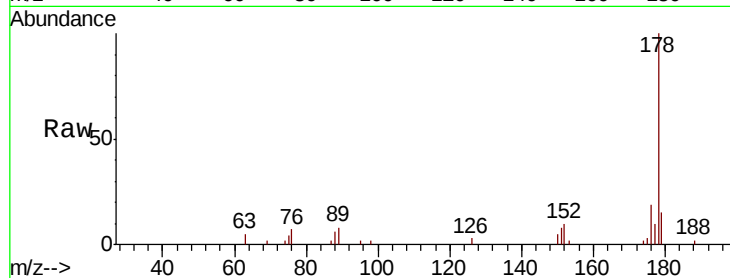




#72
 Anthracene
 Concen: 3.357 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. 0.01 min
 Lab File: BF117634.D
 Acq: 30 Oct 2019 19:32

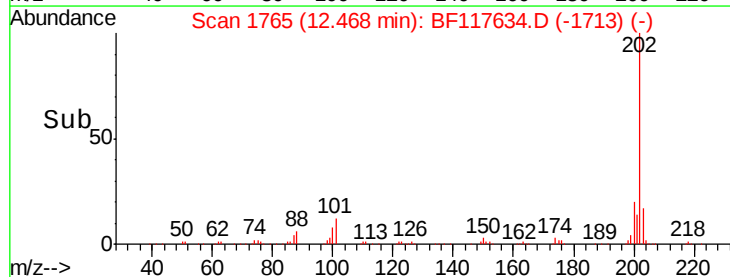
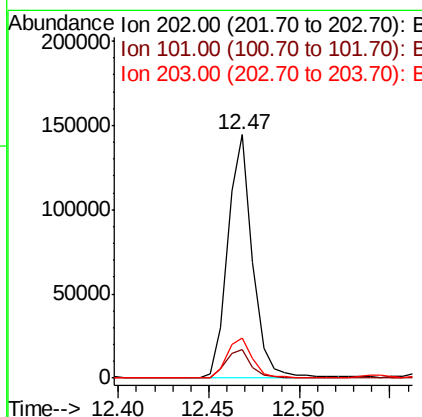
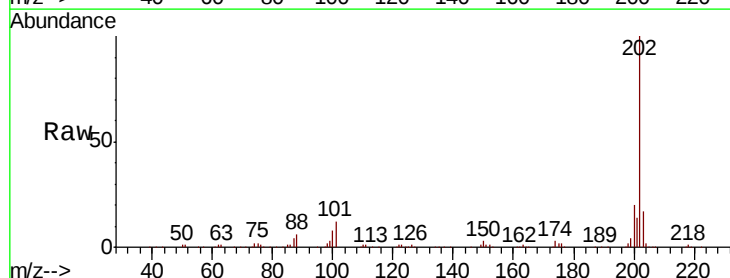
Instrument :
 BNA_F
 ClientSampleId :

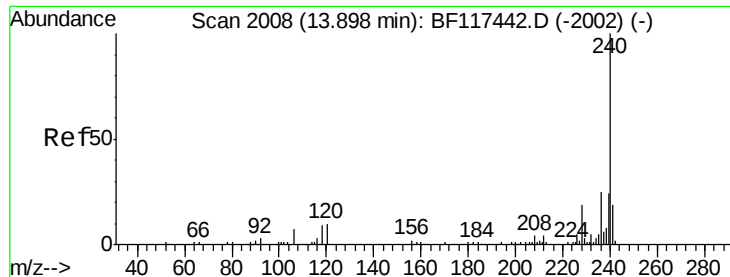
Tot Ion:178 Resp: 21821
 Ion Ratio Lower Upper
 178 100
 176 19.0 14.7 22.1
 179 15.2 12.2 18.2



#75
 Fluoranthene
 Concen: 21.708 ng
 RT: 12.47 min Scan# 1765
 Delta R.T. 0.01 min
 Lab File: BF117634.D
 Acq: 30 Oct 2019 19:32

Tgt Ion:202 Resp: 137672
 Ion Ratio Lower Upper
 202 100
 101 11.6 0.0 32.7
 203 16.5 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: BF117634.D

Acq: 30 Oct 2019 19:32

Instrument :

BNA_F

ClientSampled :

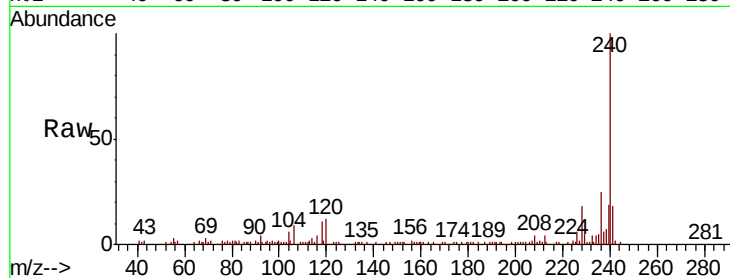
Tot Ion:240 Resp: 79723

Ion Ratio Lower Upper

240 100

120 12.3 8.4 12.6

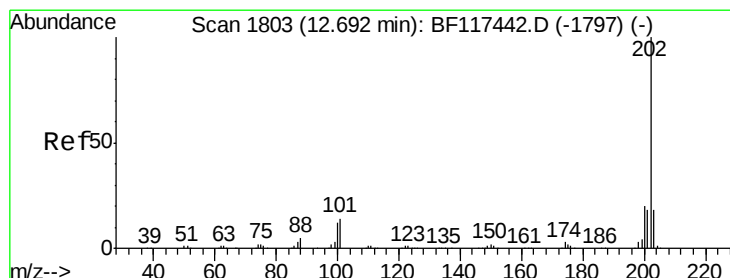
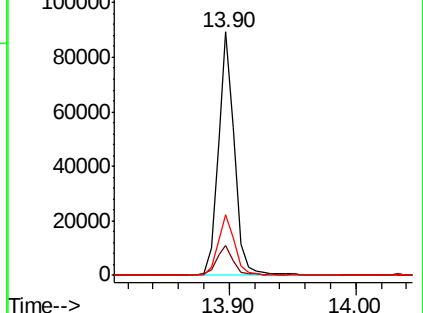
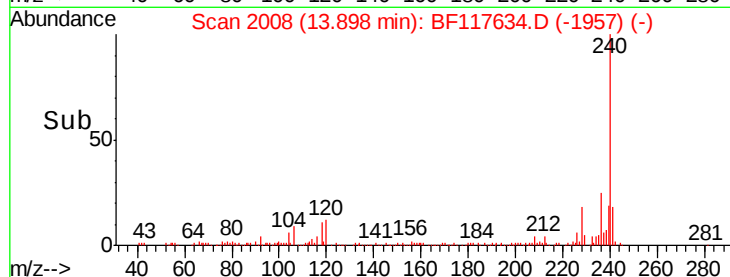
236 24.8 20.0 30.0



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: 17.639 ng

RT: 12.70 min Scan# 1804

Delta R.T. 0.01 min

Lab File: BF117634.D

Acq: 30 Oct 2019 19:32

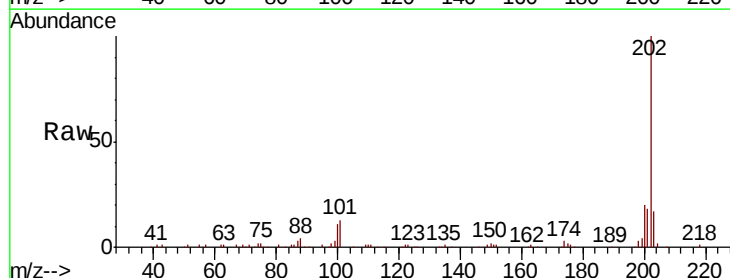
Tgt Ion:202 Resp: 120786

Ion Ratio Lower Upper

202 100

200 20.1 16.2 24.2

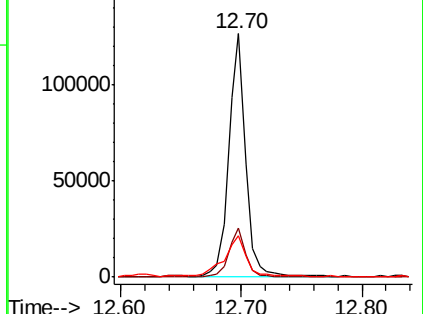
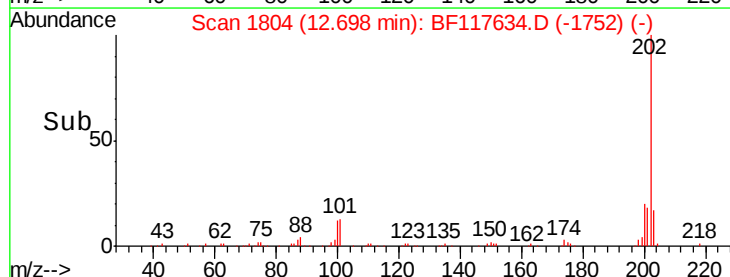
203 17.0 14.0 21.0

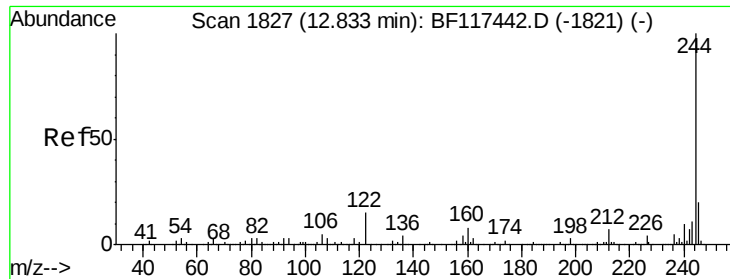


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 24.500 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF117634.D

Acq: 30 Oct 2019 19:32

Instrument :

BNA_F

ClientSampleId :

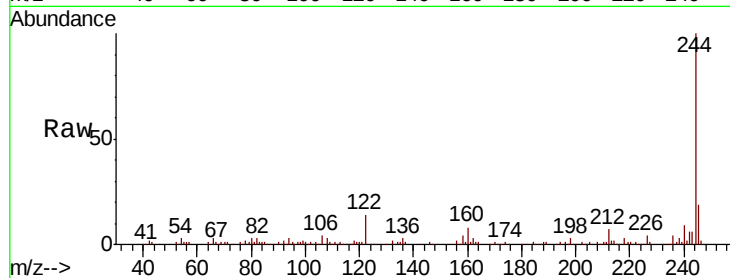
Tot Ion:244 Resp: 119747

Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.6

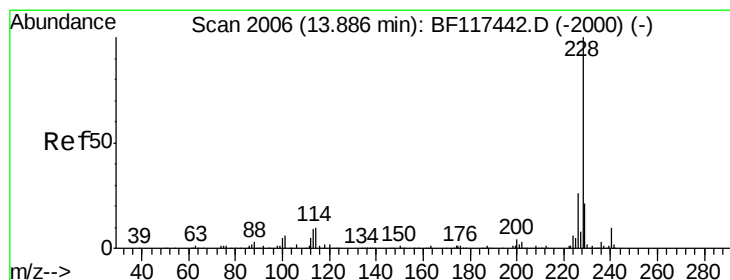
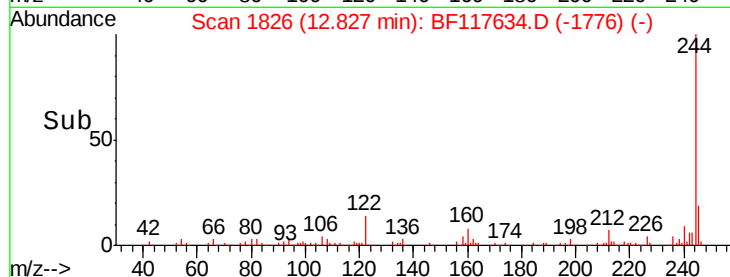
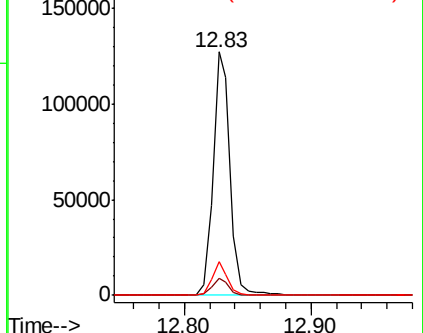
122 14.0 11.8 17.8



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



#81

Benzo(a)anthracene

Concen: 11.051 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.00 min

Lab File: BF117634.D

Acq: 30 Oct 2019 19:32

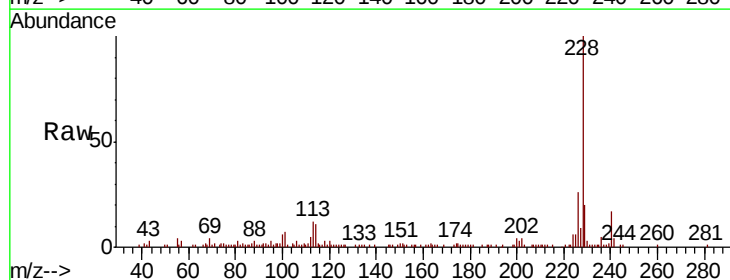
Tgt Ion:228 Resp: 59428

Ion Ratio Lower Upper

228 100

226 25.6 21.0 31.4

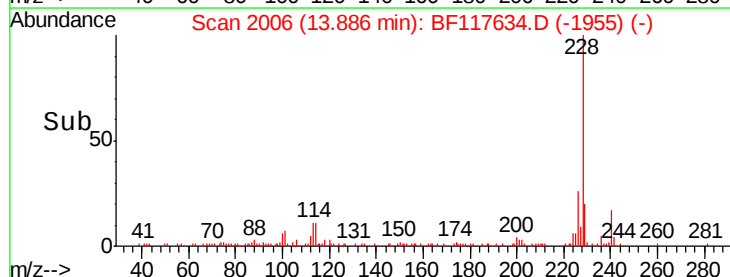
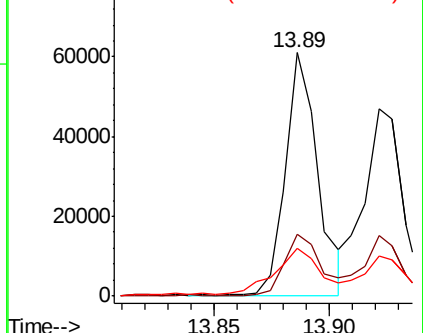
229 19.8 16.4 24.6

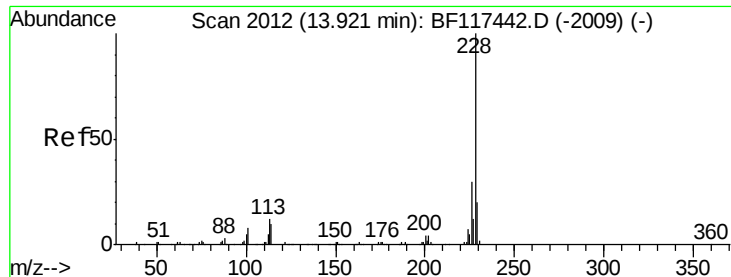


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

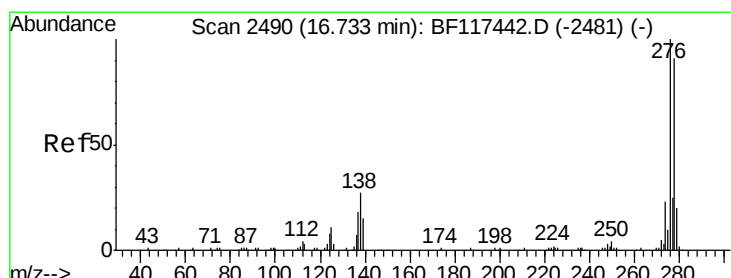
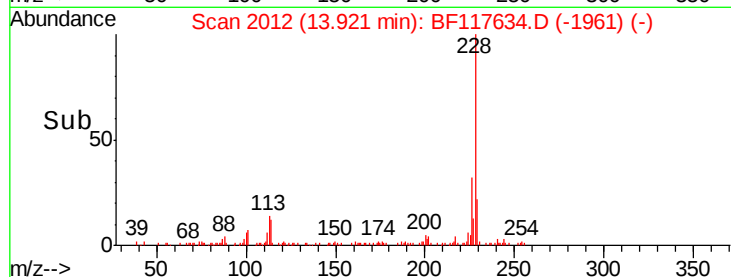
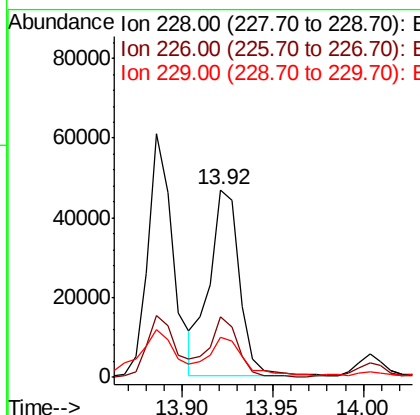
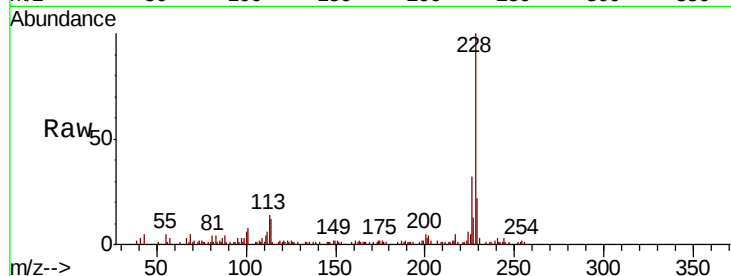




#83
Chrysene
Concen: 10.347 ng
RT: 13.92 min Scan# 2012
Delta R.T. -0.00 min
Lab File: BF117634.D
Acq: 30 Oct 2019 19:32

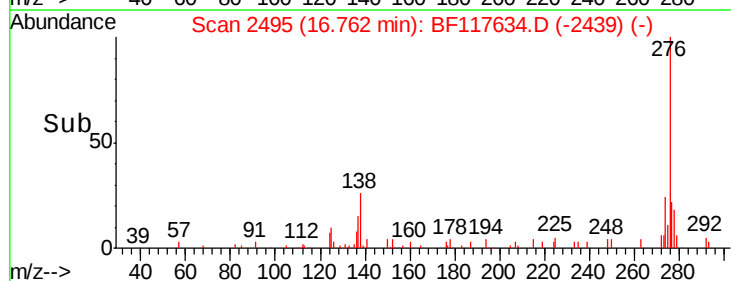
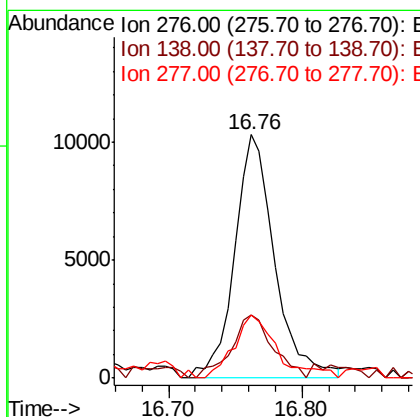
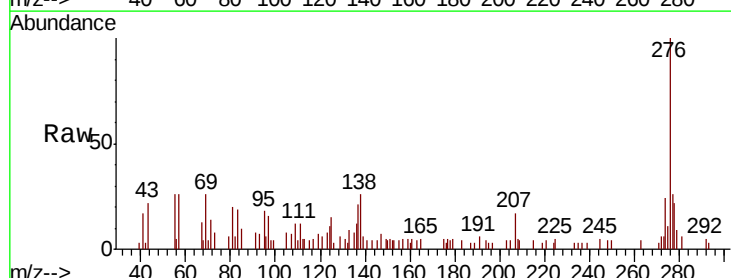
Instrument :
BNA_F
ClientSampleId :

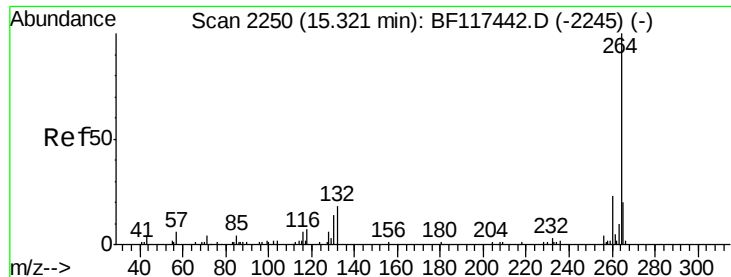
Tot Ion:228 Resp: 54533
Ion Ratio Lower Upper
228 100
226 32.0 23.9 35.9
229 21.6 15.8 23.6



#86
Indeno(1,2,3-cd)pyrene
Concen: 5.454 ng
RT: 16.76 min Scan# 2495
Delta R.T. 0.03 min
Lab File: BF117634.D
Acq: 30 Oct 2019 19:32

Tgt Ion:276 Resp: 21460
Ion Ratio Lower Upper
276 100
138 26.7 21.8 32.8
277 27.8 20.0 30.0

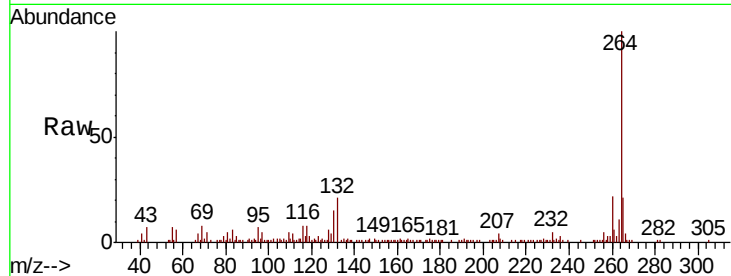




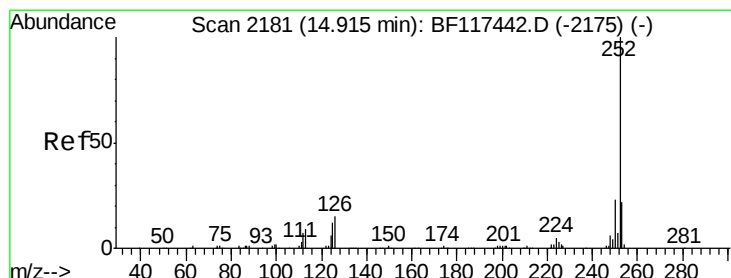
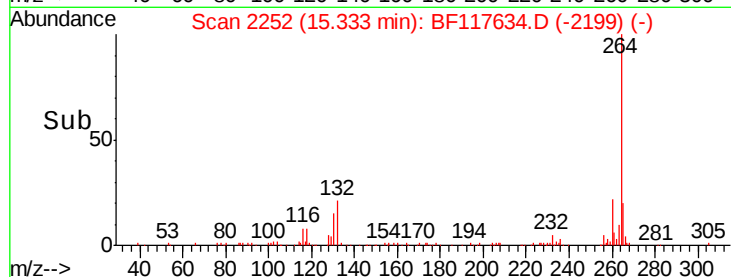
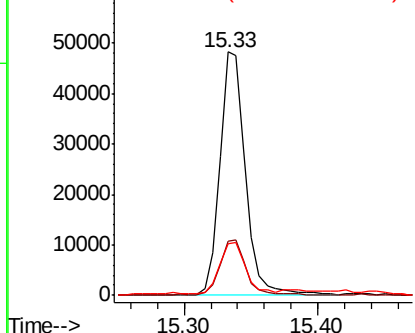
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.33 min Scan# 2252
Delta R.T. 0.01 min
Lab File: BF117634.D
Acq: 30 Oct 2019 19:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 65273
Ion Ratio Lower Upper
264 100
260 22.2 18.4 27.6
265 21.1 16.1 24.1

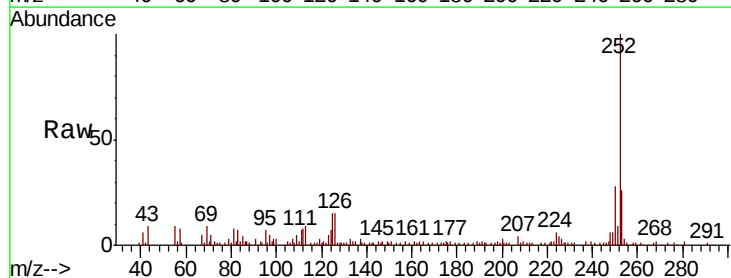


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

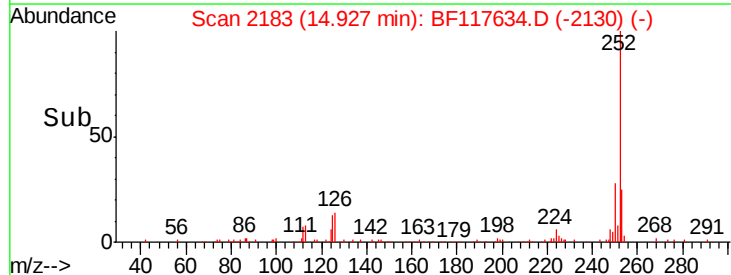
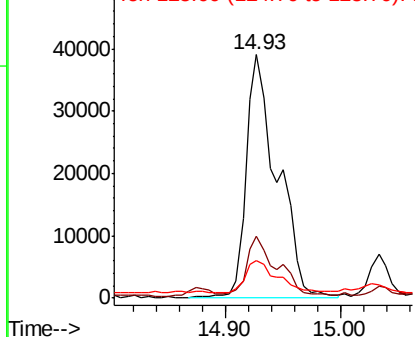


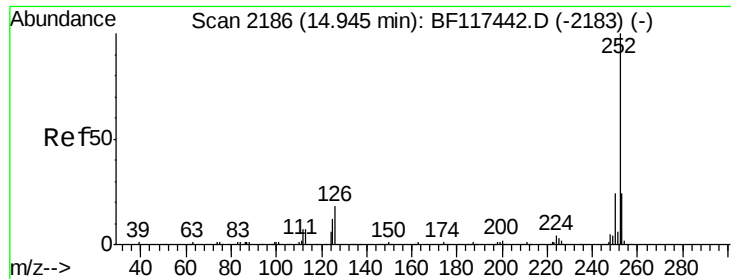
#88
Benzo(b)fluoranthene
Concen: 19.005 ng
RT: 14.93 min Scan# 2183
Delta R.T. 0.01 min
Lab File: BF117634.D
Acq: 30 Oct 2019 19:32

Tgt Ion:252 Resp: 73252
Ion Ratio Lower Upper
252 100
253 25.7 17.8 26.6
125 15.4 9.9 14.9#



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

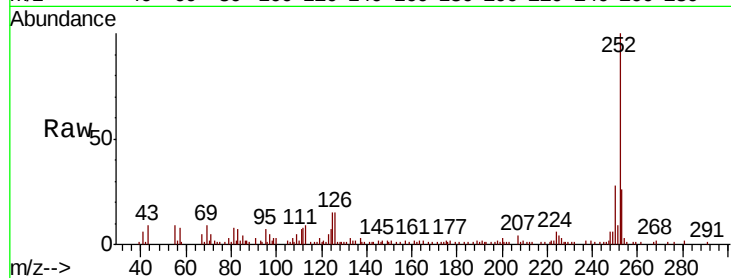




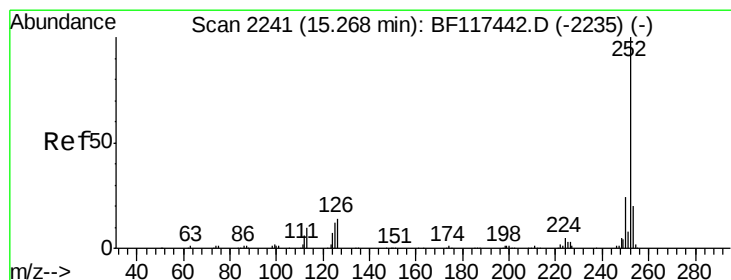
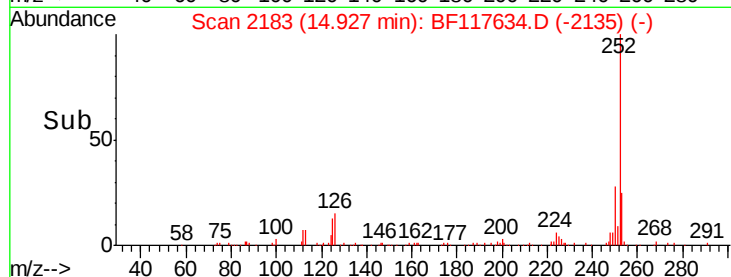
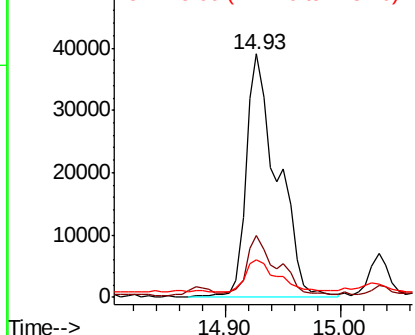
#89
Benzo(k)fluoranthene
Concen: 18.542 ng
RT: 14.93 min Scan# 2183
Delta R.T. -0.02 min
Lab File: BF117634.D
Acq: 30 Oct 2019 19:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 73252
Ion Ratio Lower Upper
252 100
253 25.7 18.0 27.0
125 15.4 8.9 13.3#

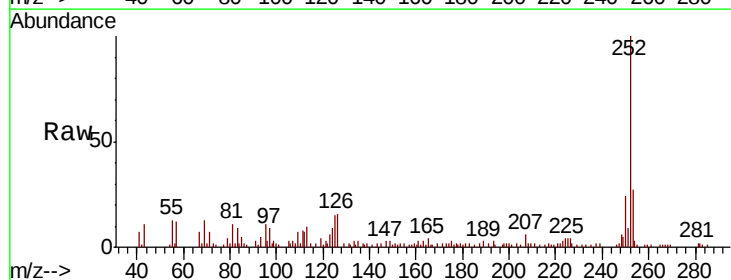


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

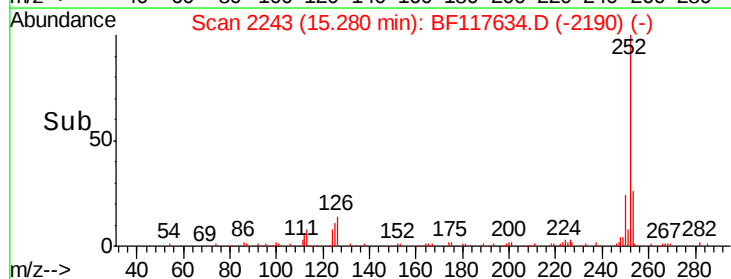
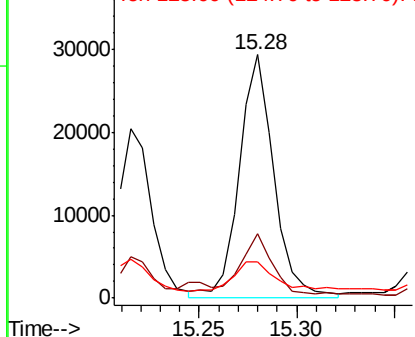


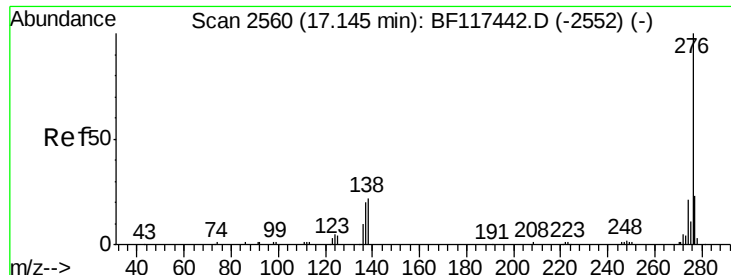
#90
Benzo(a)pyrene
Concen: 10.332 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF117634.D
Acq: 30 Oct 2019 19:32

Tgt Ion:252 Resp: 36210
Ion Ratio Lower Upper
252 100
253 26.7 16.3 24.5#
125 14.9 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

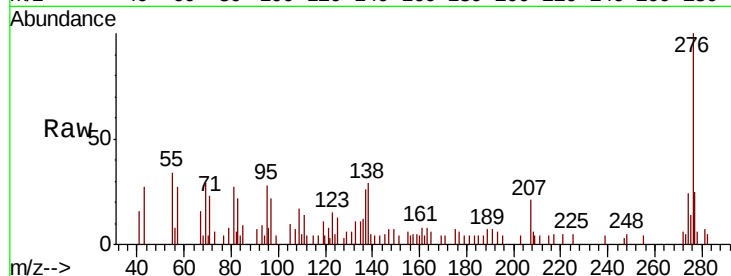




#92
 Benzo(a,h,i)perylene
 Concen: 6.780 ng
 RT: 17.19 min Scan# 2568
 Delta R.T. 0.05 min
 Lab File: BF117634.D
 Acq: 30 Oct 2019 19:32

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.7	18.4	27.6
138	28.6	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

