

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
 Data File : BF118411.D
 Acq On : 31 Dec 2019 17:59
 Operator : JU
 Sample : K6465-09
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 01 00:35:03 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 24 15:58:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	79946	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	318197	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	175920	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	318685	20.00	ng	0.00
76) Chrysene-d12	14.05	240	195149	20.00	ng	0.00
87) Perylene-d12	15.54	264	204809	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	462863	98.83	ng	0.01
7) Phenol-d6	6.49	99	582647	100.28	ng	0.00
23) Nitrobenzene-d5	7.42	82	355353	63.87	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	192029	88.39	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	768769	66.71	ng	0.00
79) Terphenyl-d14	12.99	244	750530	63.81	ng	0.00

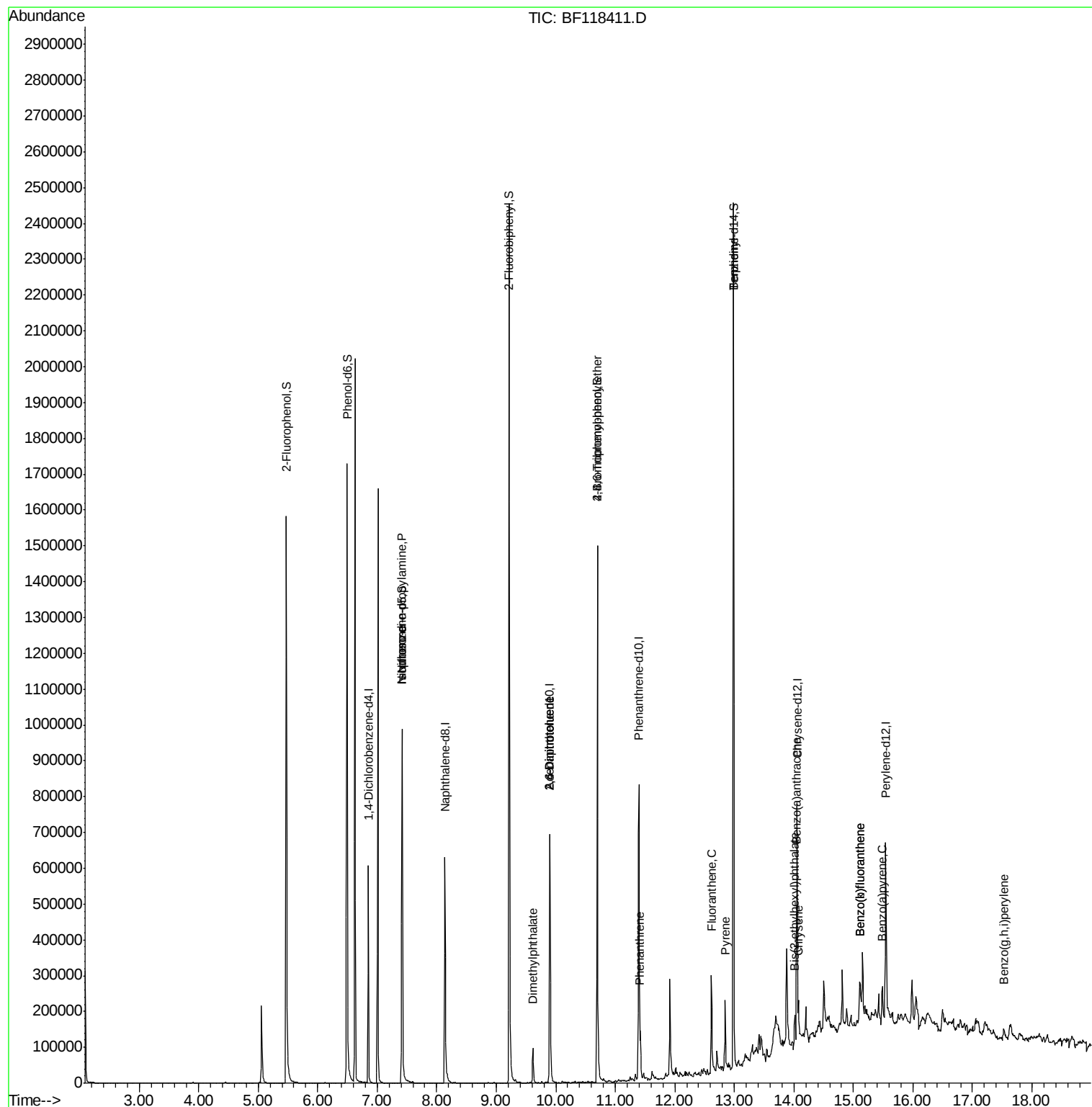
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.42	70	49966	13.960	ng	# 80
25) Isophorone	7.42	82	355348	36.650	ng	# 62
50) Dimethylphthalate	9.62	163	48241	3.653	ng	98
51) 2,6-Dinitrotoluene	9.90	165	22752	7.992	ng	# 25
57) 2,4-Dinitrotoluene	9.90	165	22752	5.981	ng	# 29
67) 4-Bromophenyl-phenylether	10.70	248	11947	3.203	ng	# 1
71) Phenanthrene	11.42	178	49470	2.848	ng	98
75) Fluoranthene	12.62	202	94227	5.374	ng	99
77) Benzidine	12.99	184	11512	2.153	ng	# 94
78) Pyrene	12.85	202	84939	5.330	ng	99
81) Benzo(a)anthracene	14.04	228	46303	3.390	ng	95
83) Chrysene	14.08	228	45136	3.451	ng	97
84) Bis(2-ethylhexyl)phthalate	14.02	149	22846	2.421	ng	# 96
88) Benzo(b)fluoranthene	15.11	252	86831	6.387	ng	# 92
89) Benzo(k)fluoranthene	15.11	252	86831	6.652	ng	# 93
90) Benzo(a)pyrene	15.49	252	45335	3.785	ng	95
92) Benzo(a,h,i)perylene	17.53	276	25529	2.543	ng	94

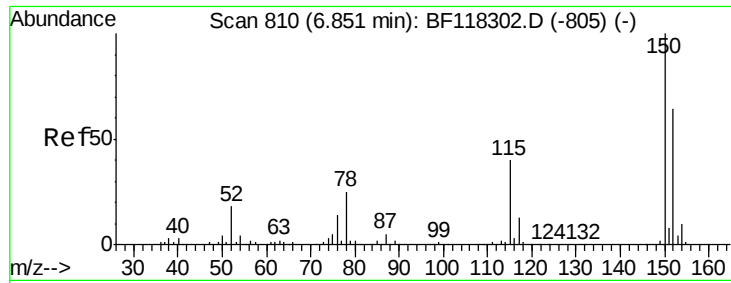
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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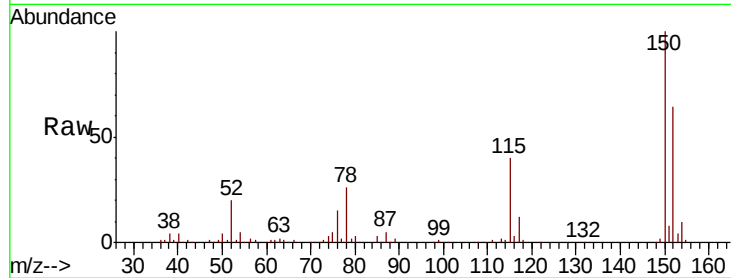


#1

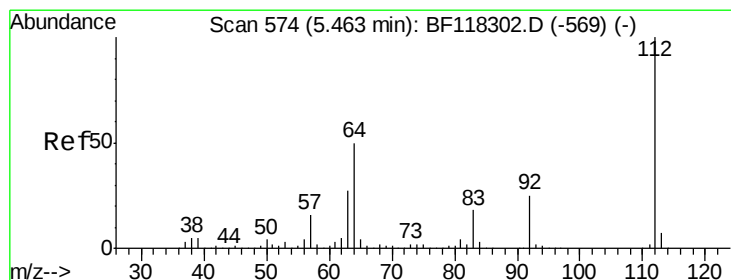
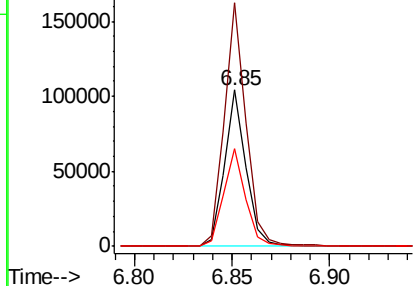
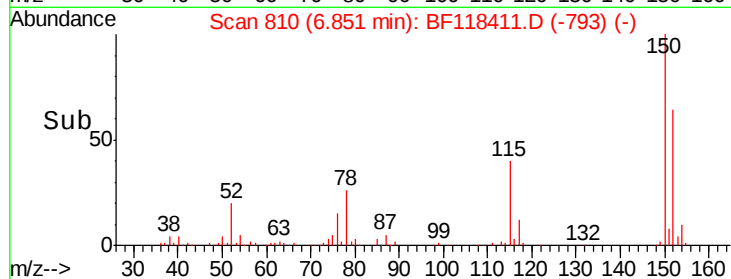
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: BF118411.D
 Acq: 31 Dec 2019 17:59

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 79946
 Ion Ratio Lower Upper
 152 100
 150 155.9 125.4 188.2
 115 62.5 50.2 75.4



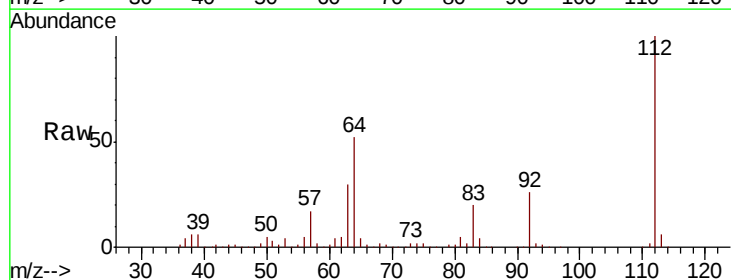
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



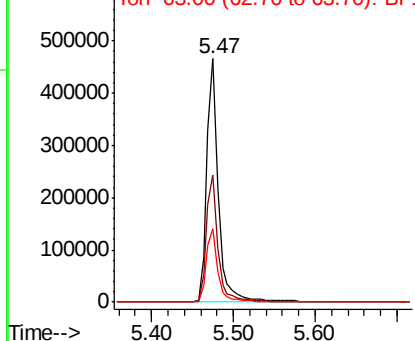
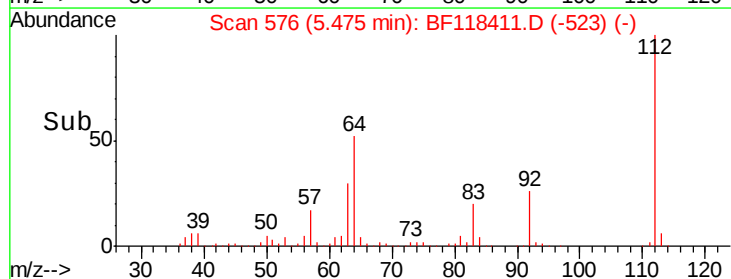
#5

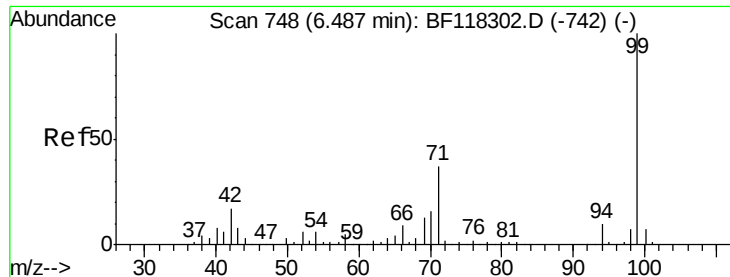
2-Fluorophenol
 Concen: 98.829 ng
 RT: 5.47 min Scan# 576
 Delta R.T. 0.01 min
 Lab File: BF118411.D
 Acq: 31 Dec 2019 17:59

Tgt Ion:112 Resp: 462863
 Ion Ratio Lower Upper
 112 100
 64 52.3 39.7 59.5
 63 29.9 21.7 32.5



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: 100.285 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.01 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

Instrument :

BNA_F

ClientSampled :

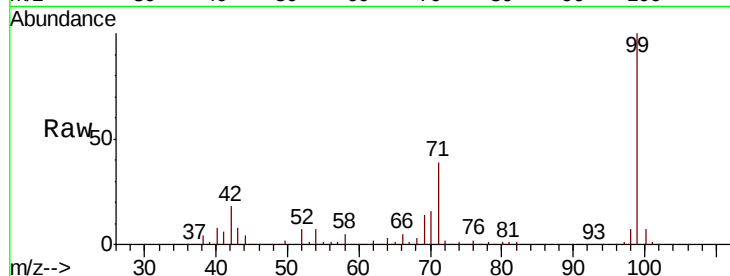
Tot Ion: 99 Resp: 582647

Ion Ratio Lower Upper

99 100

42 18.0 13.5 20.3

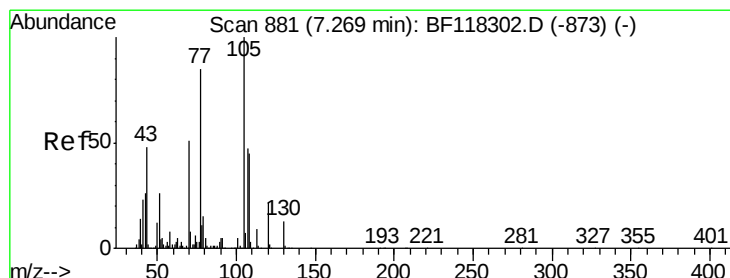
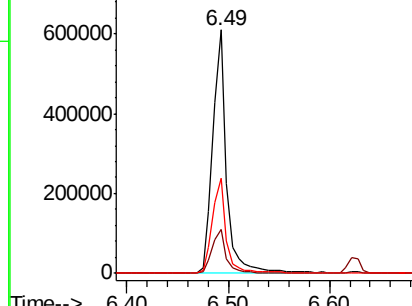
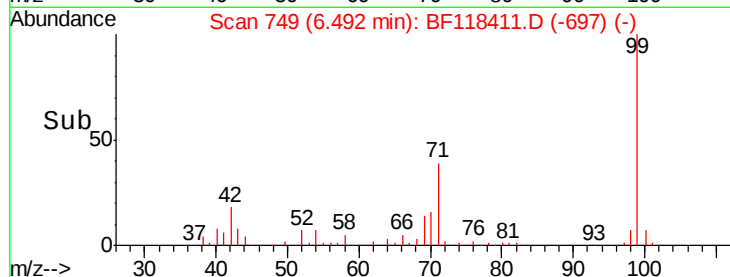
71 39.0 29.4 44.2



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: 13.960 ng

RT: 7.42 min Scan# 906

Delta R.T. 0.15 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

Tgt Ion: 70 Resp: 49966

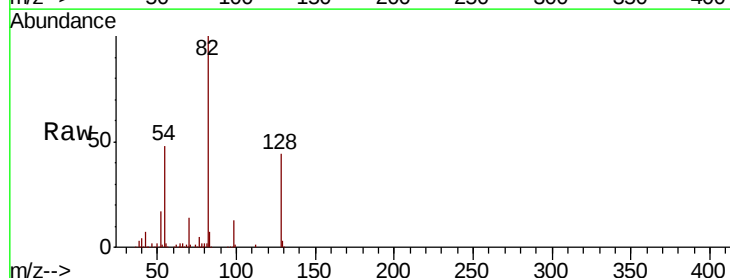
Ion Ratio Lower Upper

70 100

42 47.2 41.1 61.7

101 0.0 8.3 12.5#

130 1.8 20.1 30.1#

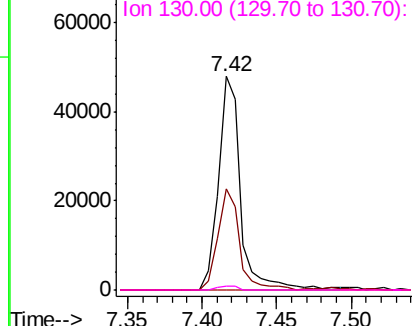
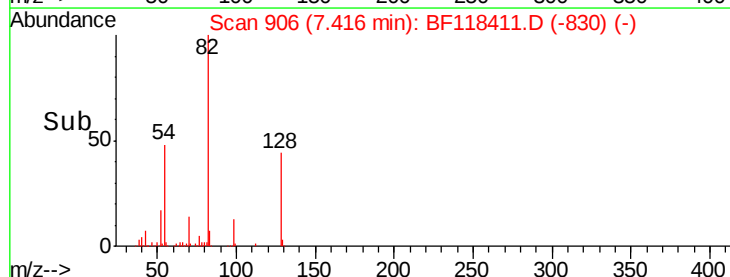


Abundance Ion 70.00 (69.70 to 70.70): BF1

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

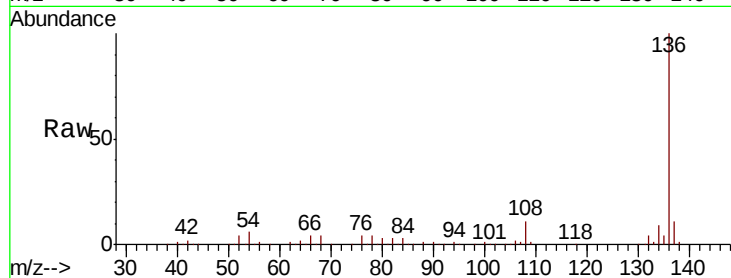




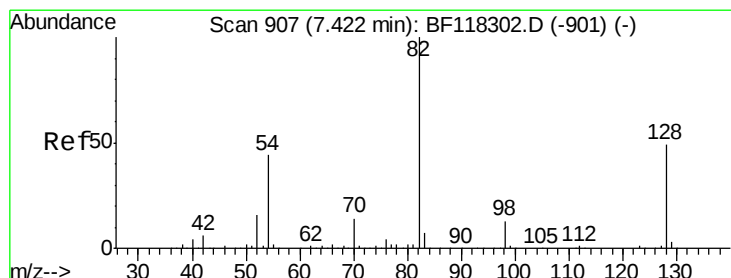
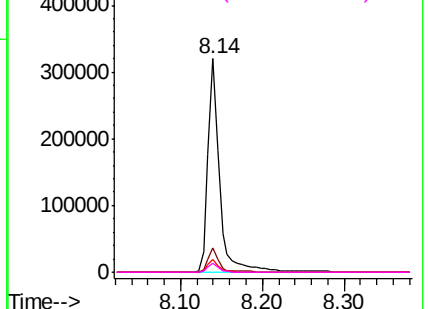
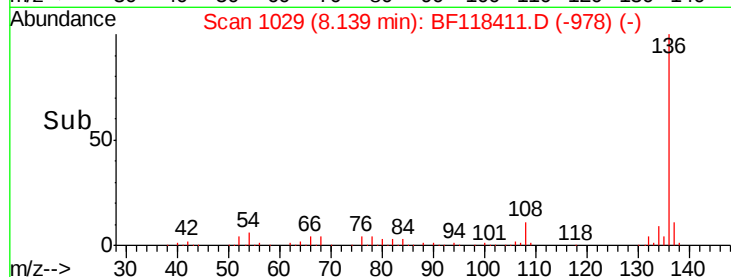
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.14 min Scan# 1029
Delta R.T. 0.00 min
Lab File: BF118411.D
Acq: 31 Dec 2019 17:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	318197
Ion Ratio	Lower	Upper
136 100		
137 11.2	8.9	13.3
54 5.9	4.2	6.4
68 4.3	3.5	5.3

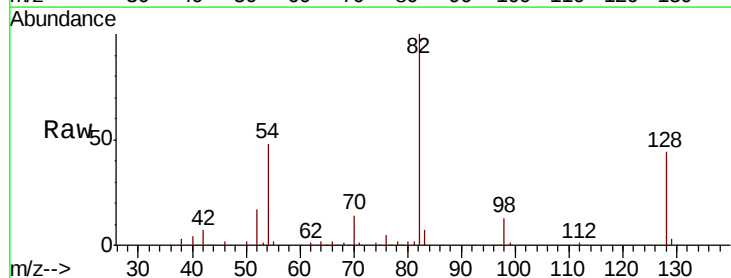


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

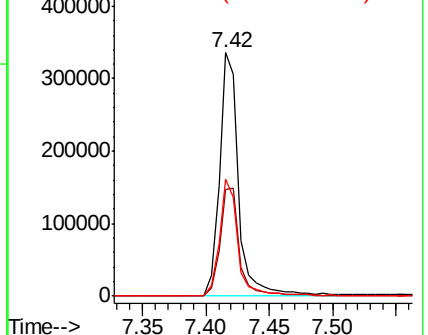
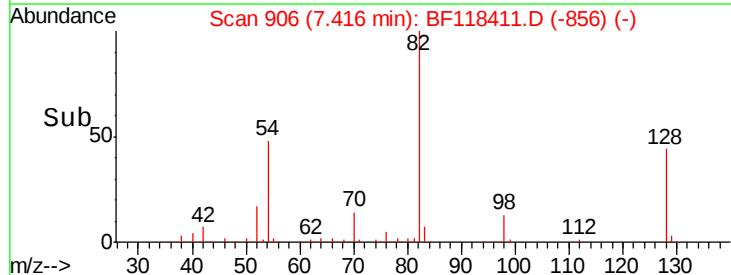


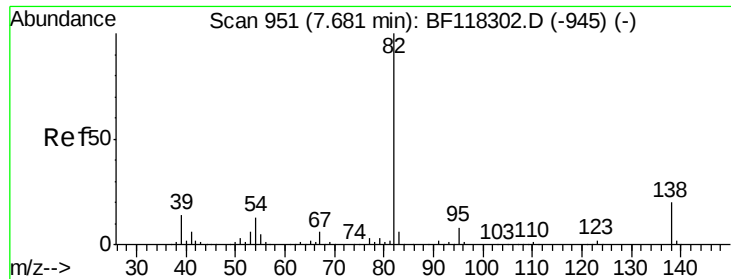
#23
Nitrobenzene-d5
Concen: 63.874 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.01 min
Lab File: BF118411.D
Acq: 31 Dec 2019 17:59

Tgt Ion: 82	Resp: 355353
Ion Ratio	Lower Upper
82 100	
128 43.9	39.6 59.4
54 48.1	34.9 52.3



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: 36.650 ng

RT: 7.42 min Scan# 906

Delta R.T. -0.26 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

Instrument :

BNA_F

ClientSampleId :

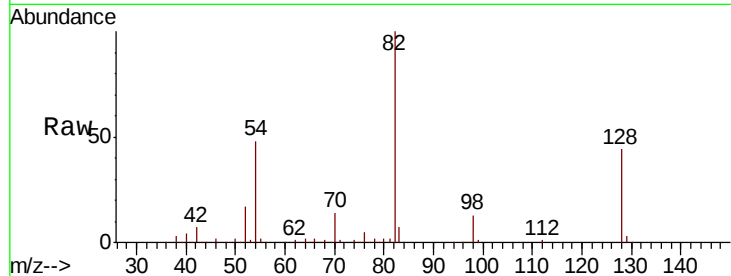
Tot Ion: 82 Resp: 355348

Ion Ratio Lower Upper

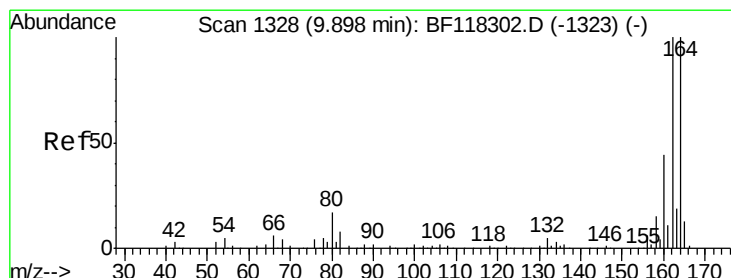
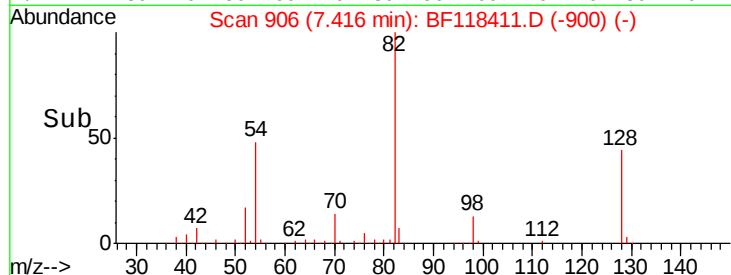
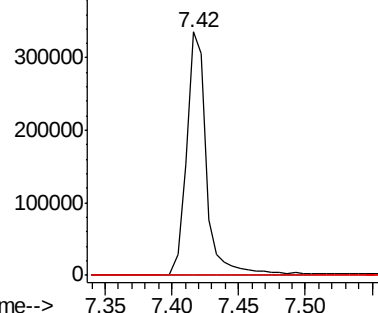
82 100

95 0.0 6.3 9.5#

138 0.0 16.2 24.2#



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): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.90 min Scan# 1328

Delta R.T. 0.00 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

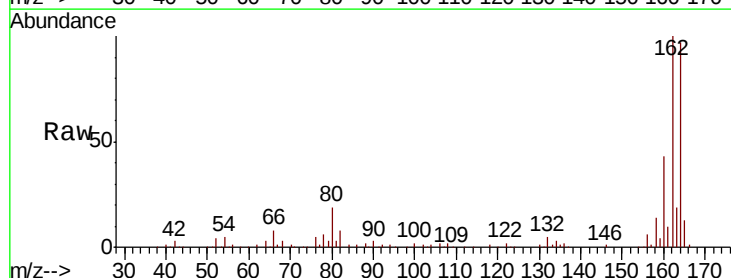
Tgt Ion: 164 Resp: 175920

Ion Ratio Lower Upper

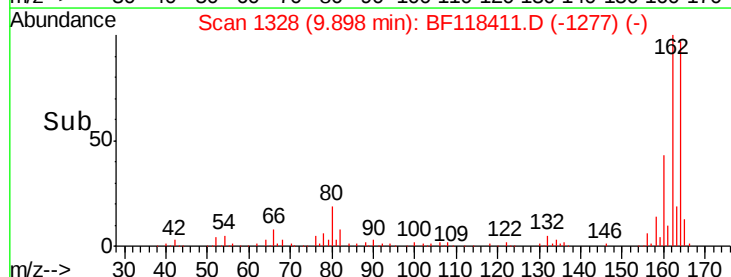
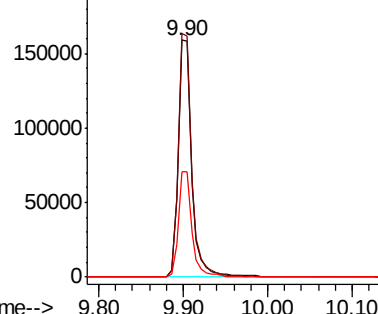
164 100

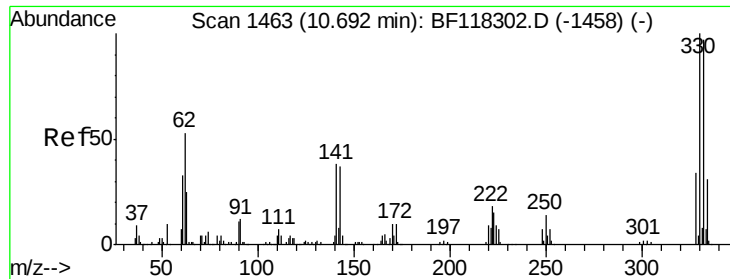
162 102.9 80.0 120.0

160 44.7 34.8 52.2



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

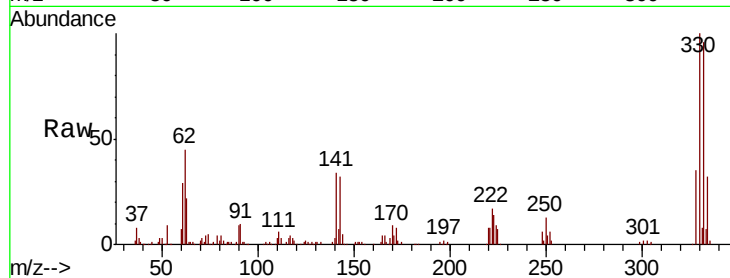




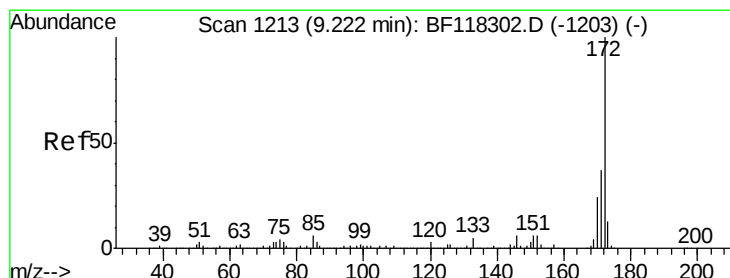
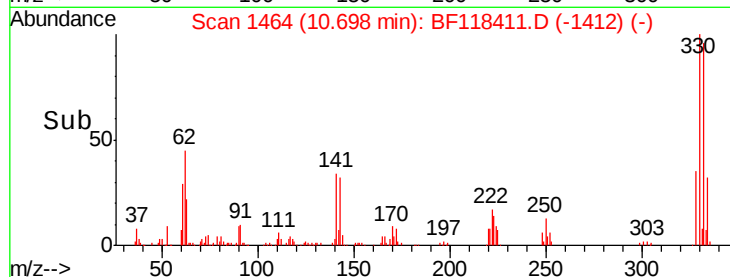
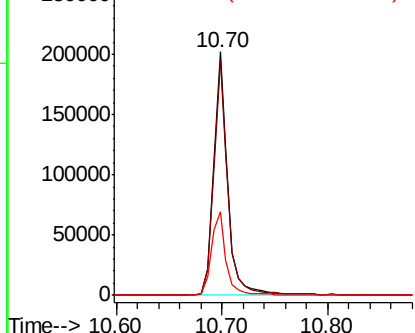
#42
 2,4,6-Tribromophenol
 Concen: 88.391 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. 0.01 min
 Lab File: BF118411.D
 Acq: 31 Dec 2019 17:59

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 192029
 Ion Ratio Lower Upper
 330 100
 332 97.0 76.6 114.8
 141 35.3 26.0 39.0

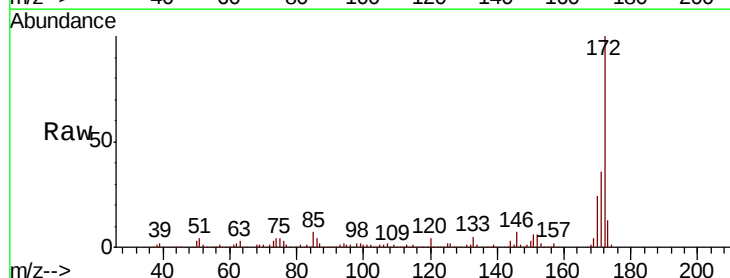


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

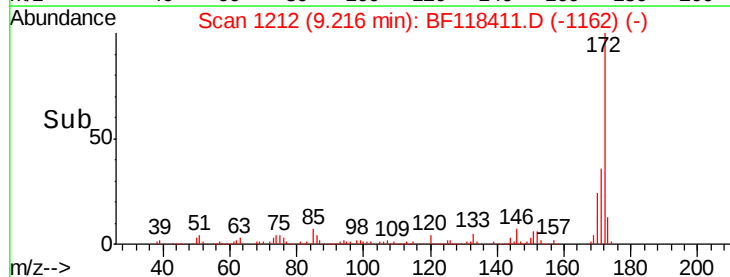
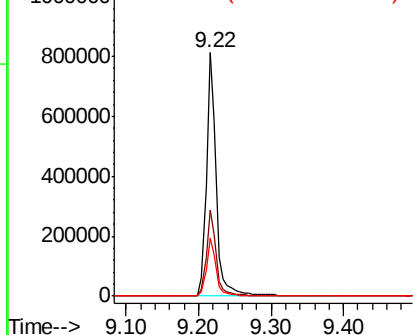


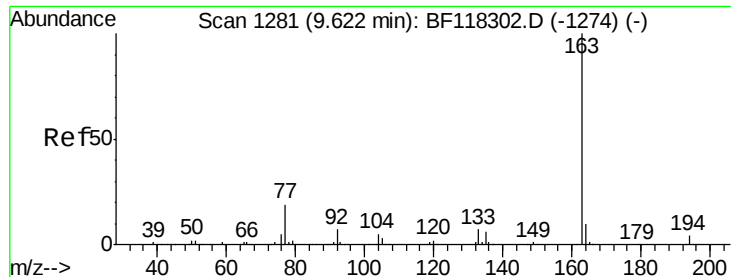
#45
 2-Fluorobiphenyl
 Concen: 66.707 ng
 RT: 9.22 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: BF118411.D
 Acq: 31 Dec 2019 17:59

Tgt Ion:172 Resp: 768769
 Ion Ratio Lower Upper
 172 100
 171 35.6 29.3 43.9
 170 24.0 19.2 28.8



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: 3.653 ng

RT: 9.62 min Scan# 1280

Delta R.T. -0.01 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

Instrument :

BNA_F

ClientSampleId :

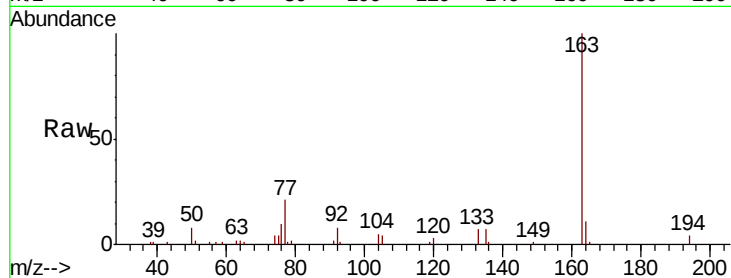
Tot Ion:163 Resp: 48241

Ion Ratio Lower Upper

163 100

194 3.7 3.2 4.8

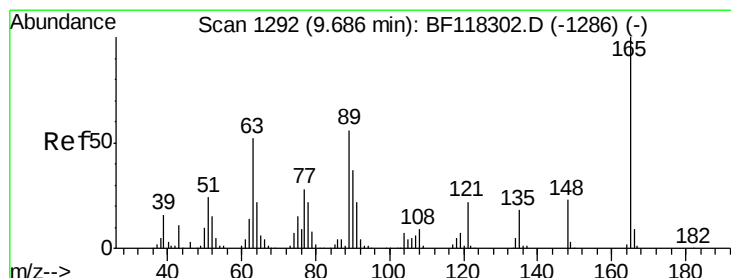
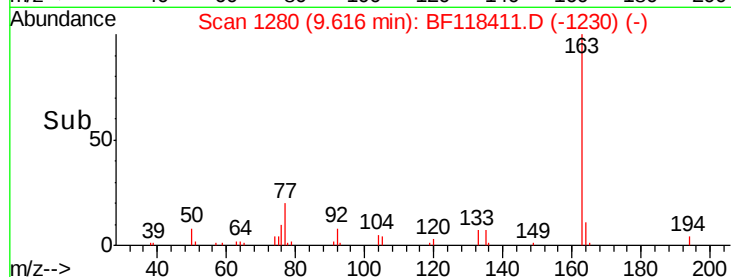
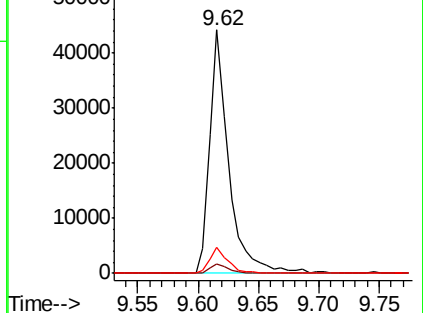
164 10.7 7.9 11.9



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

2,6-Dinitrotoluene

Concen: 7.992 ng

RT: 9.90 min Scan# 1328

Delta R.T. 0.21 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

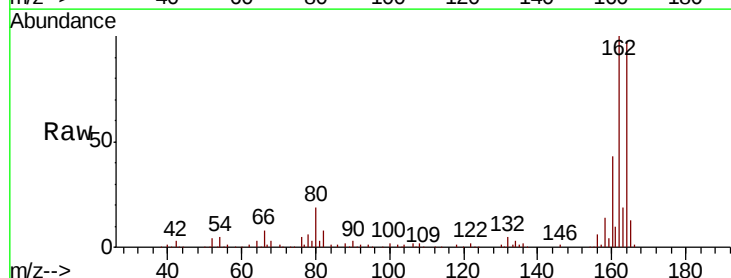
Tgt Ion:165 Resp: 22752

Ion Ratio Lower Upper

165 100

63 0.0 42.2 63.4#

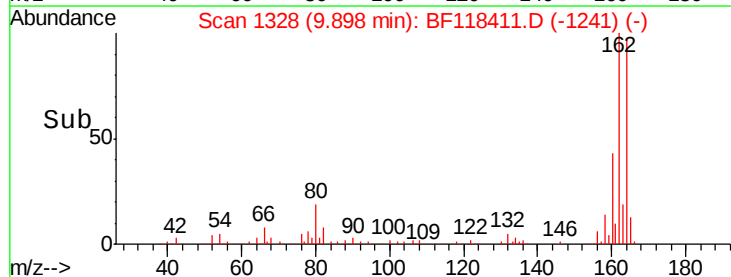
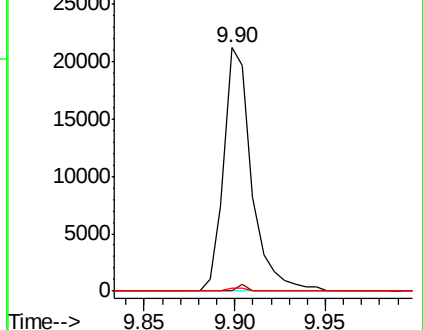
89 1.4 44.4 66.6#

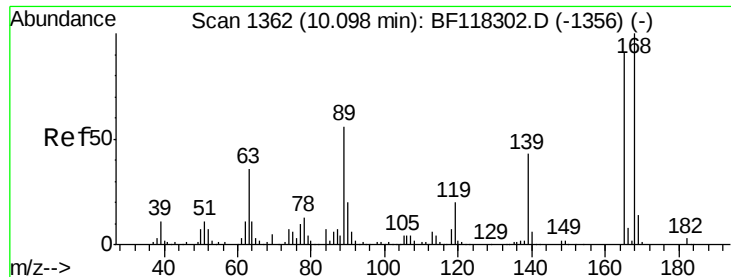


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

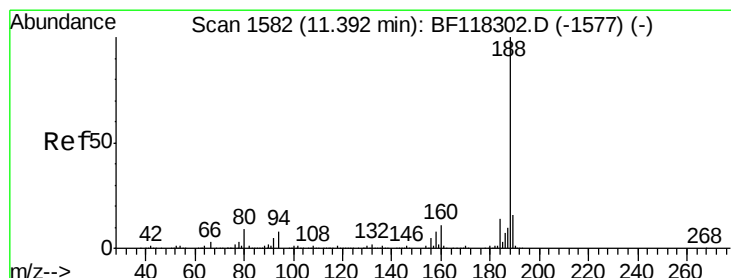
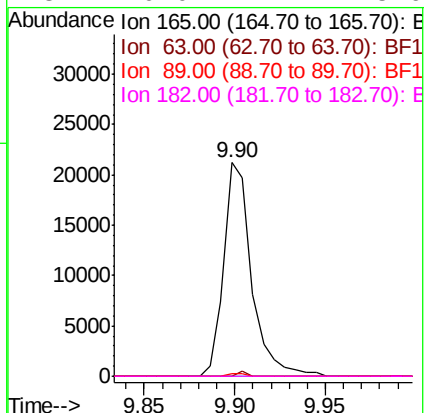
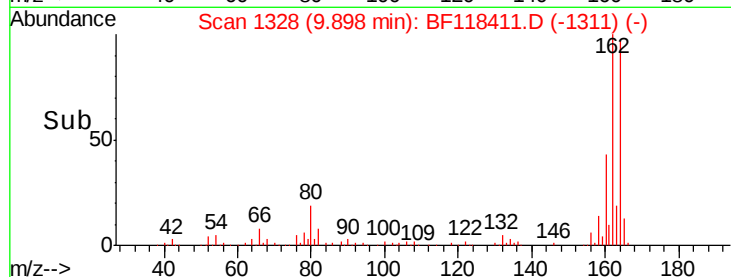
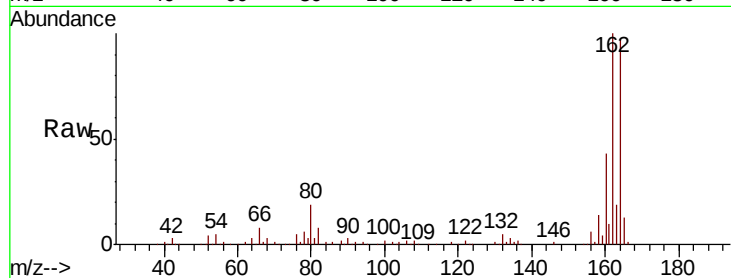




#57
 2,4-Dinitrotoluene
 Concen: 5.981 ng
 RT: 9.90 min Scan# 1328
 Delta R.T. -0.20 min
 Lab File: BF118411.D
 Acq: 31 Dec 2019 17:59

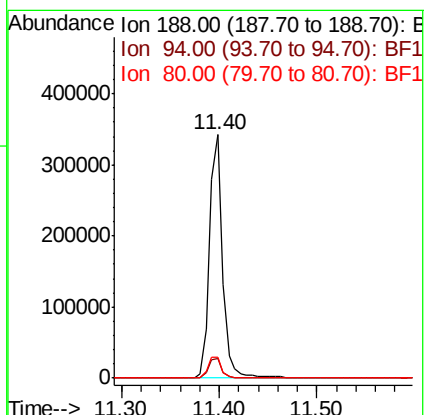
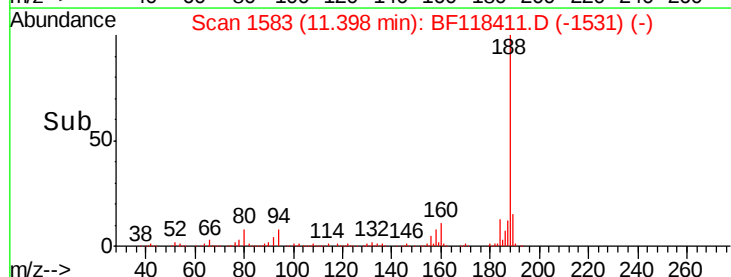
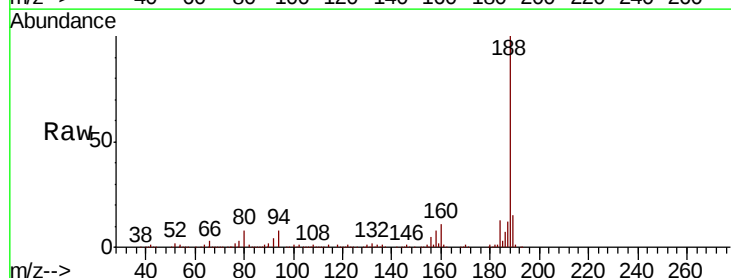
Instrument :
 BNA_F
 ClientSampleId :

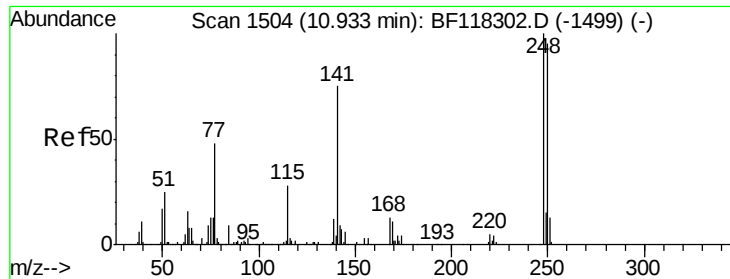
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	32.0	48.0#
89	1.4	49.3	73.9#
182	0.0	2.4	3.6#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. 0.01 min
 Lab File: BF118411.D
 Acq: 31 Dec 2019 17:59

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.8	6.7	10.1
80	8.3	7.2	10.8

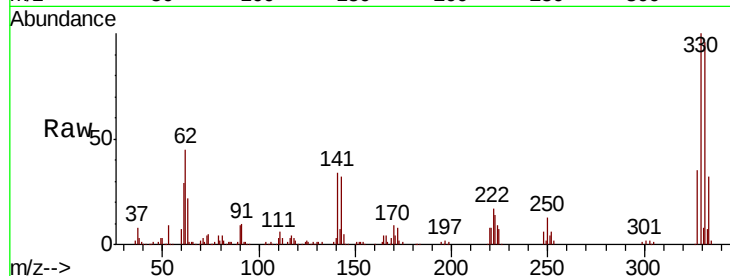




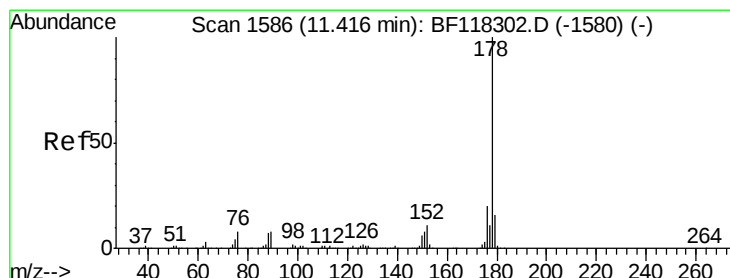
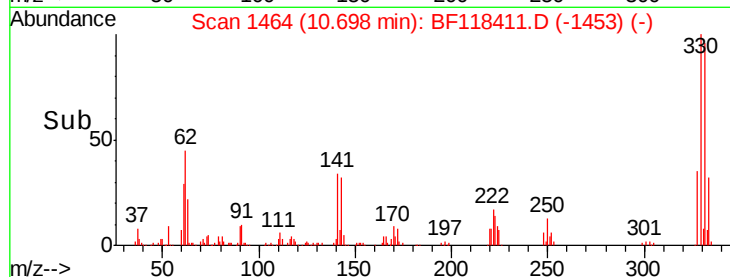
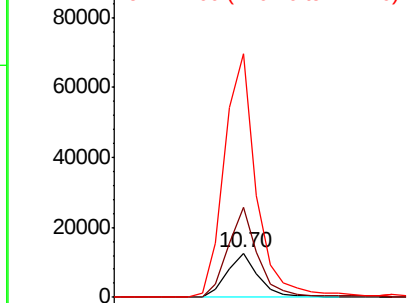
#67
 4-Bromophenyl-phenylether
 Concen: 3.203 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. -0.24 min
 Lab File: BF118411.D
 Acq: 31 Dec 2019 17:59

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 11947
 Ion Ratio Lower Upper
 248 100
 250 203.8 76.4 114.6#
 141 552.8 60.2 90.2#

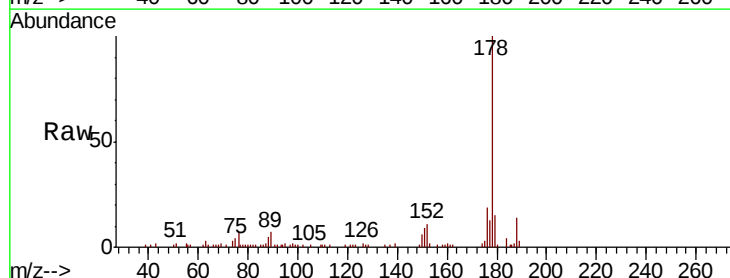


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

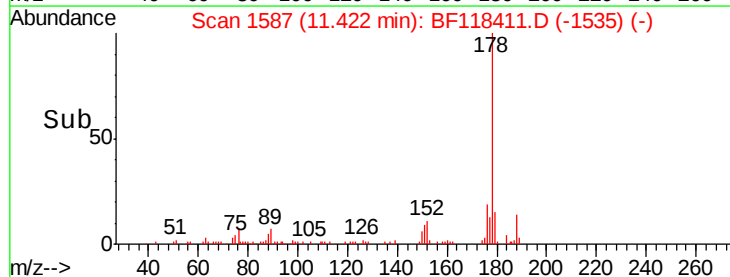
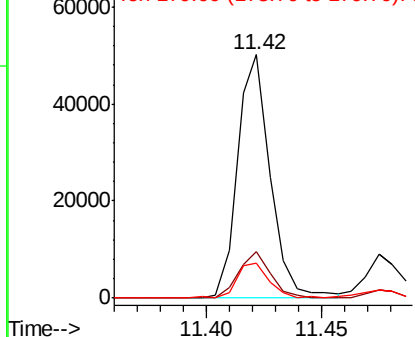


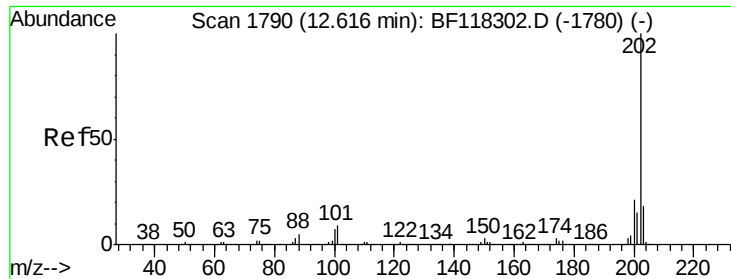
#71
 Phenanthrene
 Concen: 2.848 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. 0.01 min
 Lab File: BF118411.D
 Acq: 31 Dec 2019 17:59

Tgt Ion:178 Resp: 49470
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.6 23.4
 179 14.6 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





#75

Fluoranthene

Concen: 5.374 ng

RT: 12.62 min Scan# 1790

Delta R.T. 0.00 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

Instrument :

BNA_F

ClientSampled :

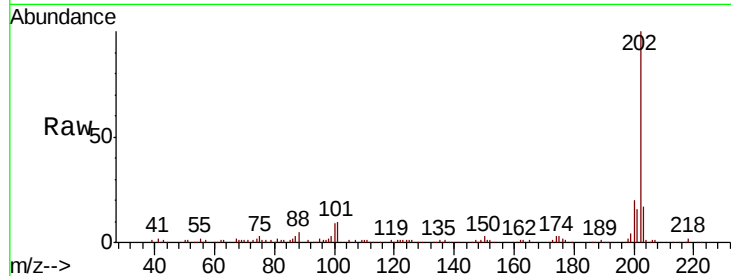
Tot Ion:202 Resp: 94227

Ion Ratio Lower Upper

202 100

101 10.3 0.0 29.5

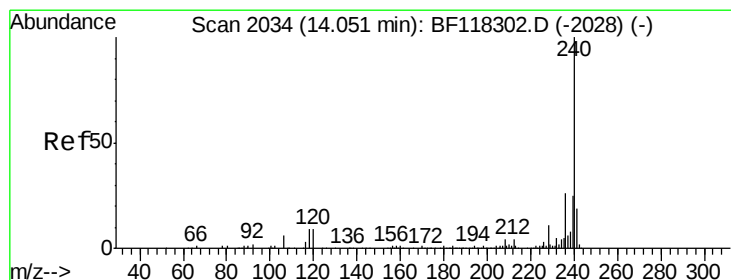
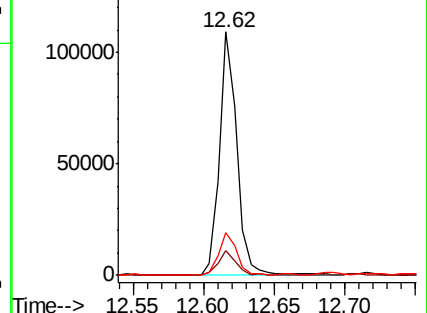
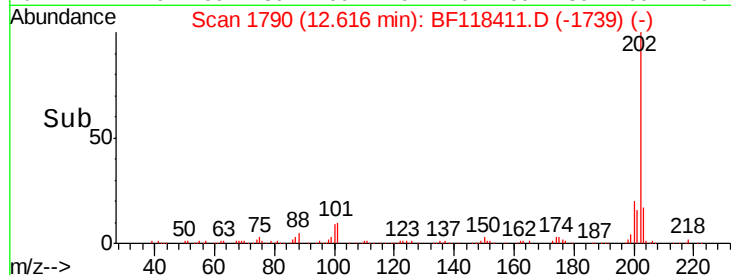
203 17.4 0.0 37.6



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: 14.05 min Scan# 2034

Delta R.T. 0.00 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

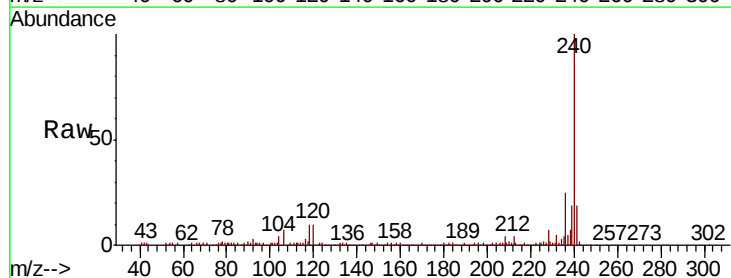
Tgt Ion:240 Resp: 195149

Ion Ratio Lower Upper

240 100

120 10.4 7.1 10.7

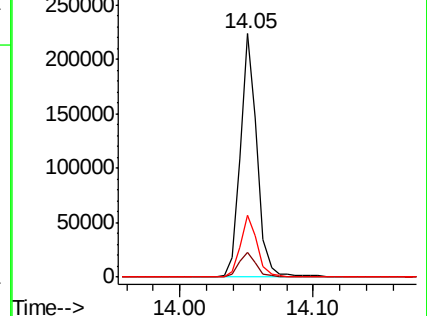
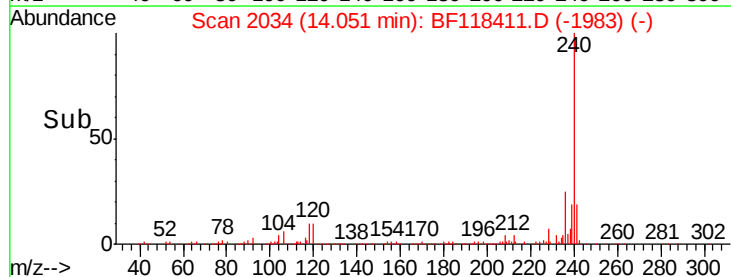
236 25.5 21.0 31.6

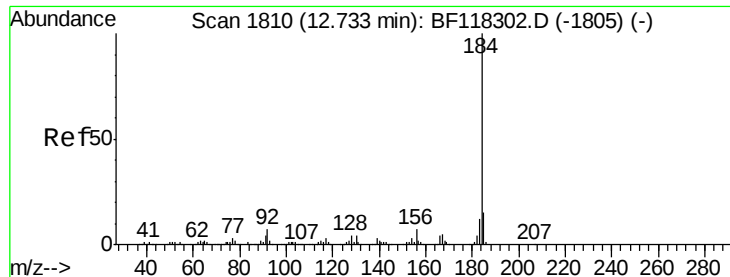


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 2.153 ng

RT: 12.99 min Scan# 1853

Delta R.T. 0.25 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

Instrument :

BNA_F

ClientSampleId :

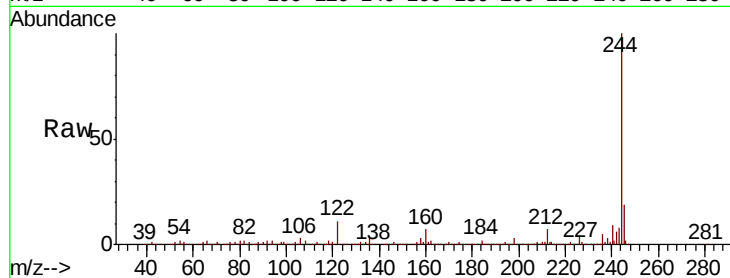
Tot Ion:184 Resp: 11512

Ion Ratio Lower Upper

184 100

185 19.1 12.3 18.5#

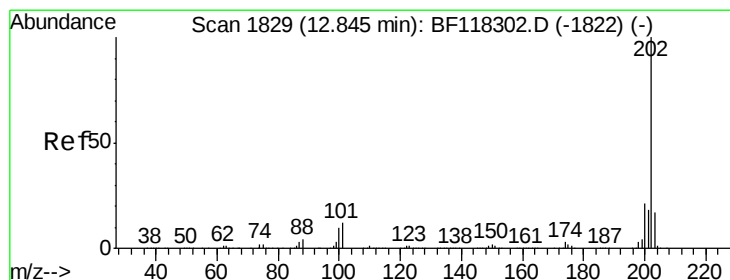
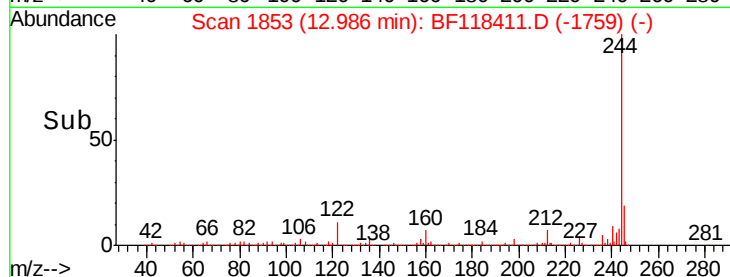
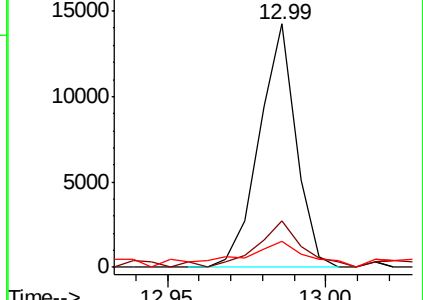
183 10.8 9.4 14.2



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 5.330 ng

RT: 12.85 min Scan# 1829

Delta R.T. 0.00 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

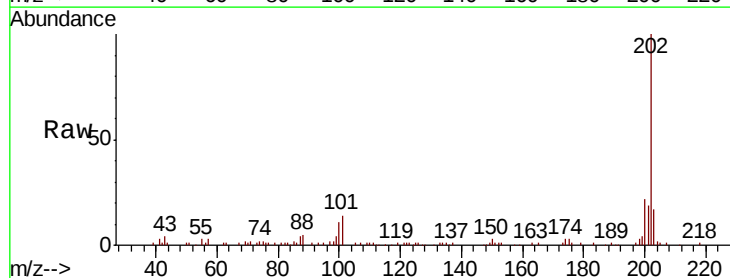
Tgt Ion:202 Resp: 84939

Ion Ratio Lower Upper

202 100

200 21.7 16.8 25.2

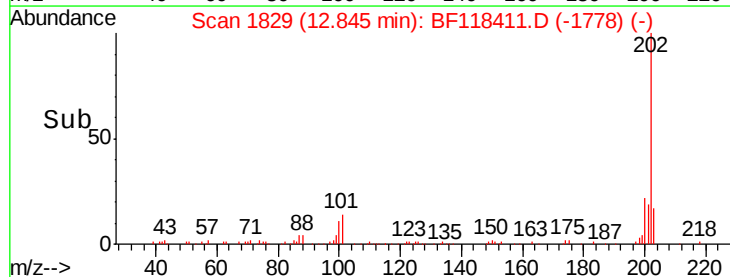
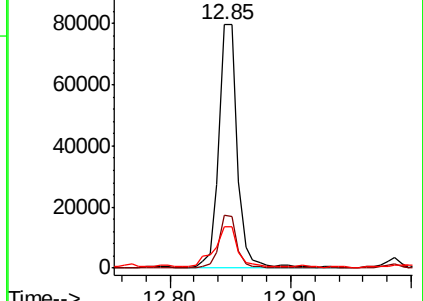
203 16.9 13.9 20.9

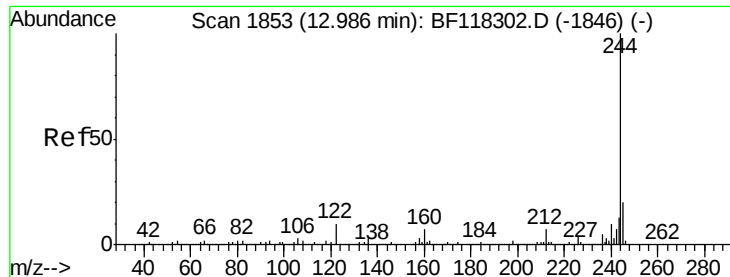


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 63.805 ng

RT: 12.99 min Scan# 1853

Delta R.T. 0.00 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

Instrument :

BNA_F

ClientSampleId :

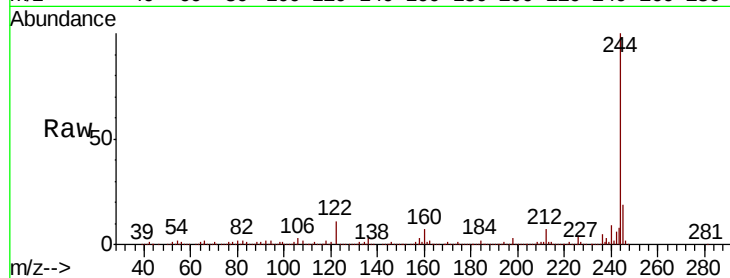
Tot Ion:244 Resp: 750530

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.2

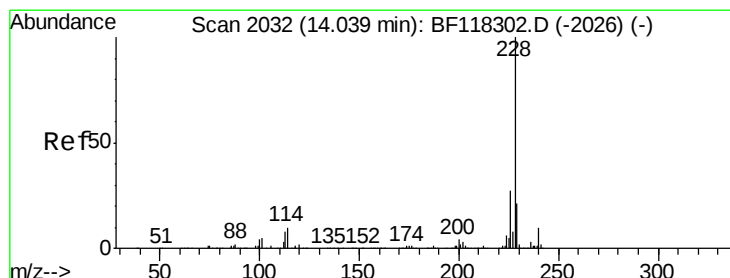
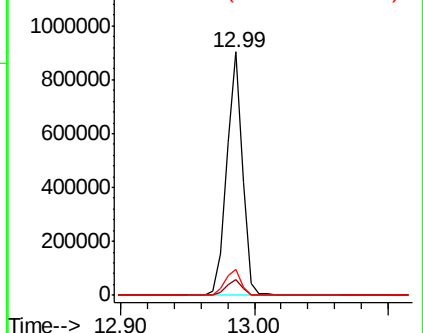
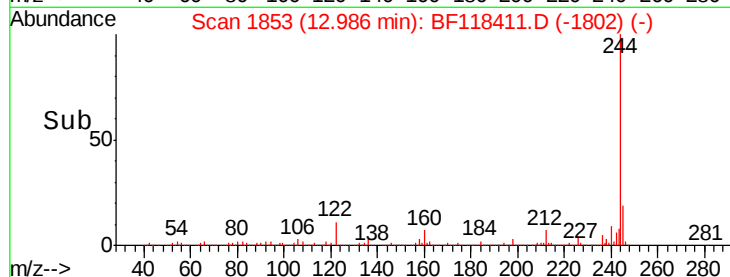
122 10.7 7.8 11.8



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: 3.390 ng

RT: 14.04 min Scan# 2032

Delta R.T. 0.00 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

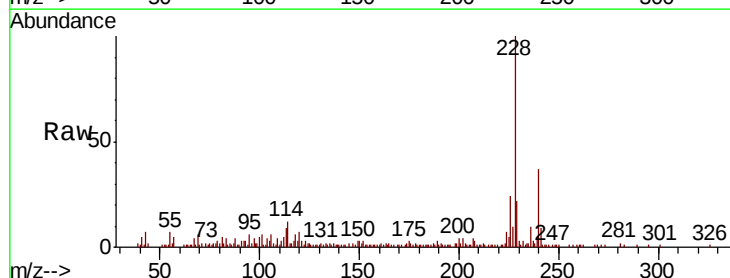
Tgt Ion:228 Resp: 46303

Ion Ratio Lower Upper

228 100

226 23.6 22.0 33.0

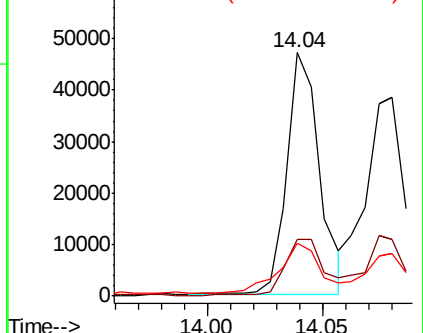
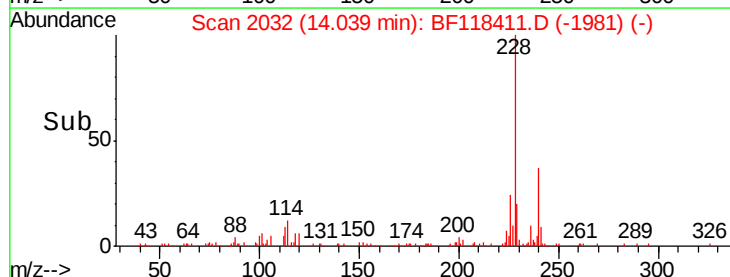
229 21.8 16.6 24.8

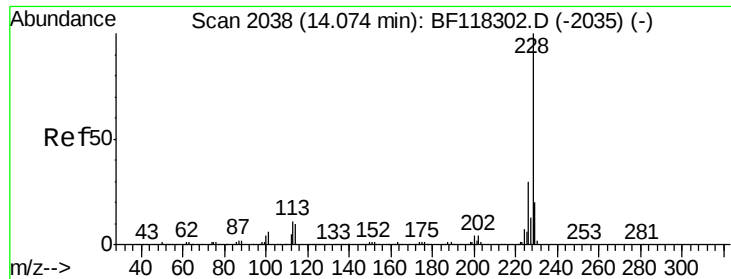


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 3.451 ng

RT: 14.08 min Scan# 2039

Delta R.T. 0.01 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

Instrument :

BNA_F

ClientSampleId :

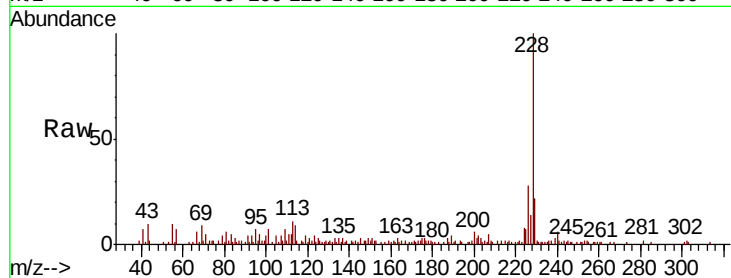
Tot Ion:228 Resp: 45136

Ion Ratio Lower Upper

228 100

226 28.4 23.9 35.9

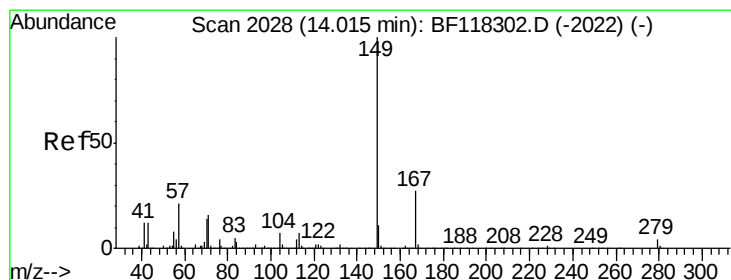
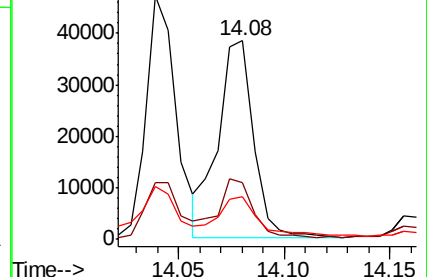
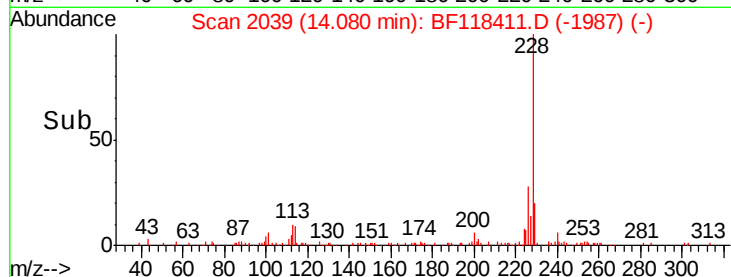
229 21.6 16.1 24.1



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.421 ng

RT: 14.02 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

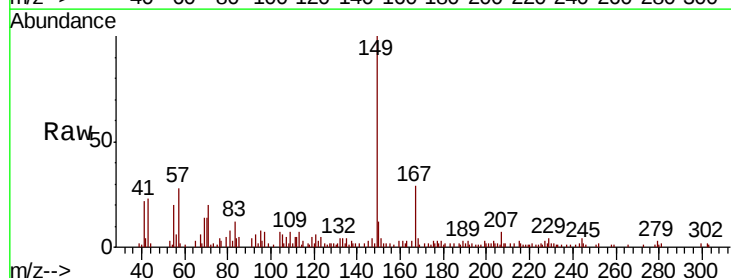
Tgt Ion:149 Resp: 22846

Ion Ratio Lower Upper

149 100

167 29.0 21.3 31.9

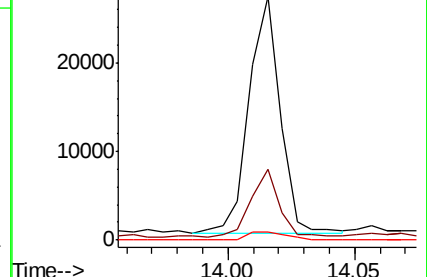
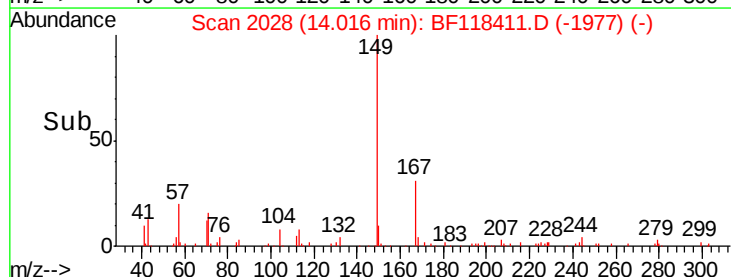
279 3.2 3.4 5.2#

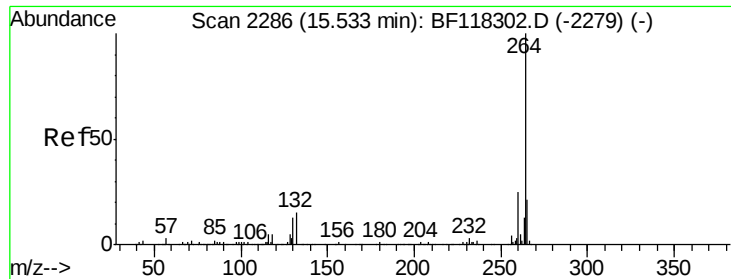


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.54 min Scan# 2288

Delta R.T. 0.01 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

Instrument :

BNA_F

ClientSampleId :

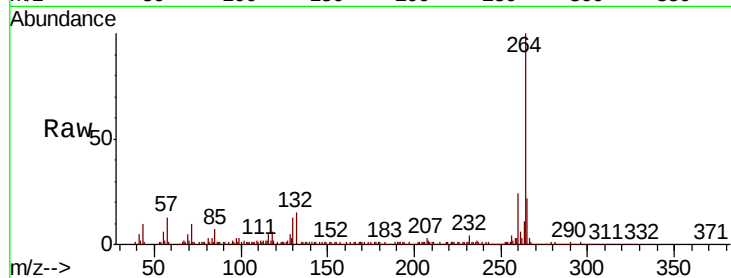
Tot Ion:264 Resp: 204809

Ion Ratio Lower Upper

264 100

260 23.6 19.8 29.6

265 22.3 17.0 25.4

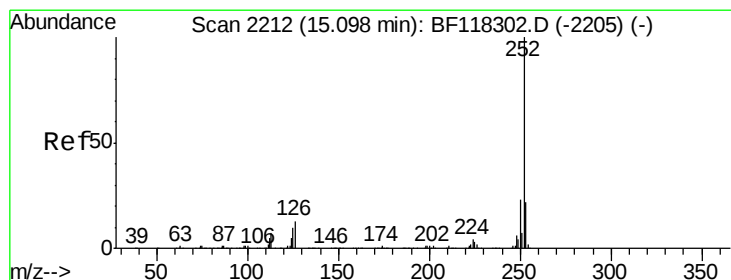
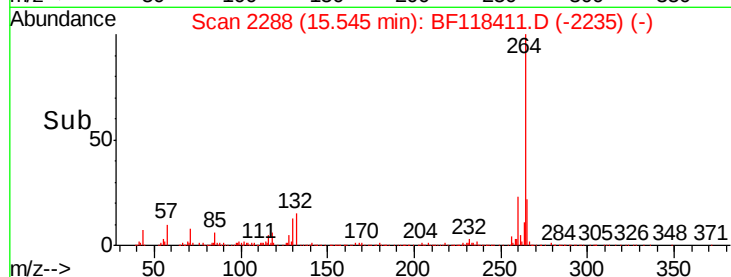
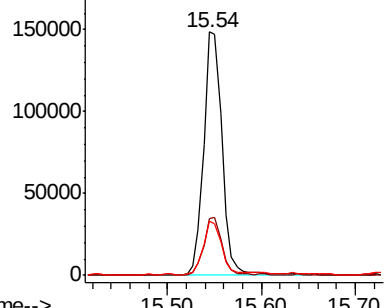


Abundance

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: 6.387 ng

RT: 15.11 min Scan# 2214

Delta R.T. 0.01 min

Lab File: BF118411.D

Acq: 31 Dec 2019 17:59

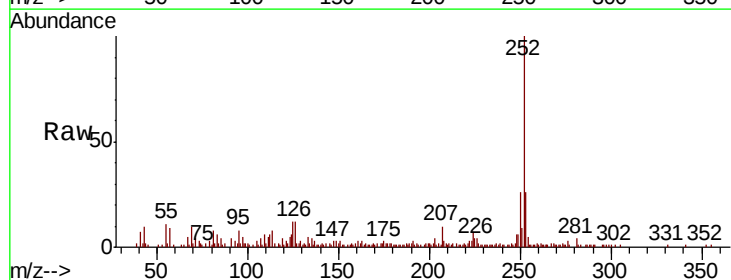
Tgt Ion:252 Resp: 86831

Ion Ratio Lower Upper

252 100

253 26.1 17.5 26.3

125 12.3 7.7 11.5#

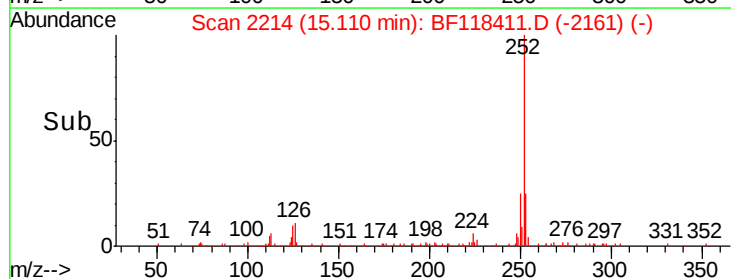
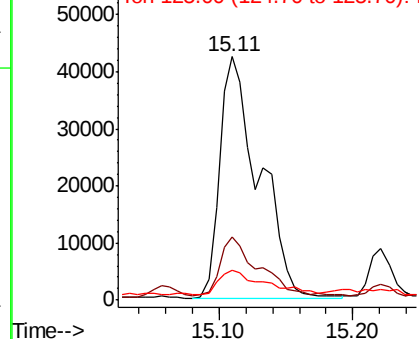


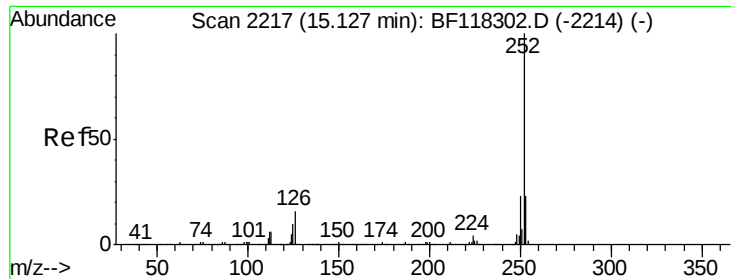
Abundance

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

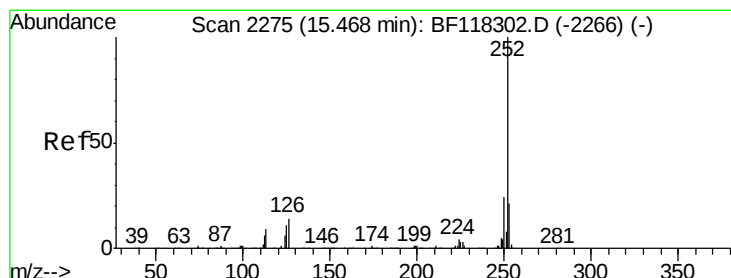
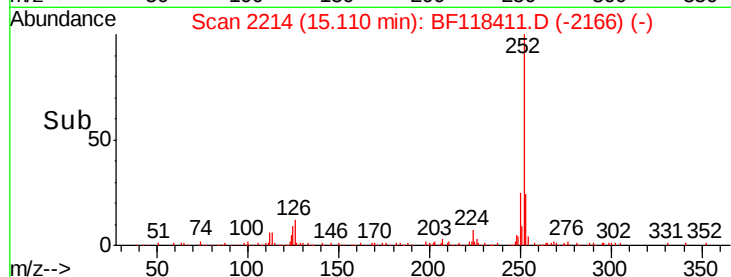
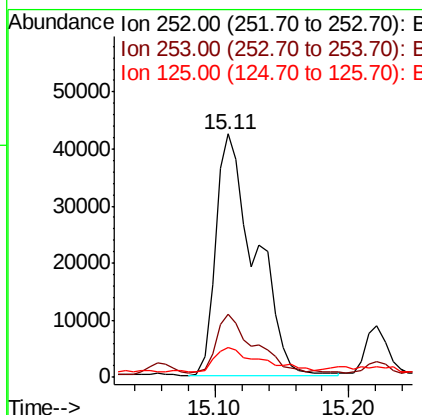
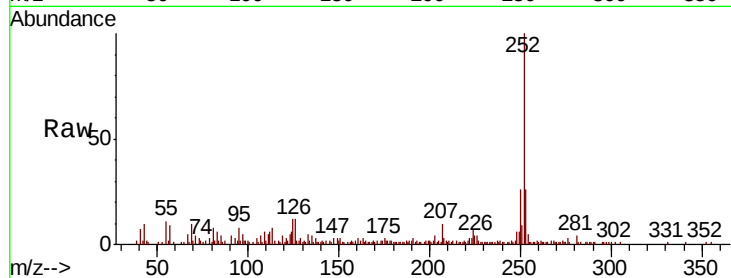




#89
Benzo(k)fluoranthene
Concen: 6.652 ng
RT: 15.11 min Scan# 2214
Delta R.T. -0.02 min
Lab File: BF118411.D
Acq: 31 Dec 2019 17:59

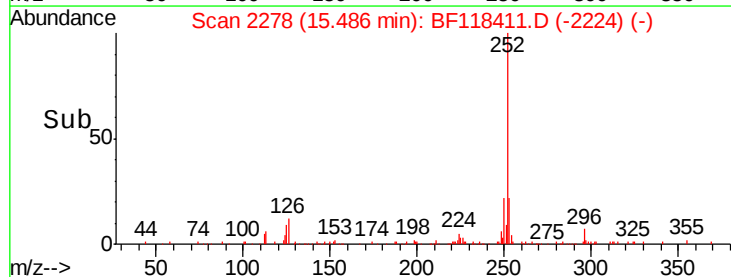
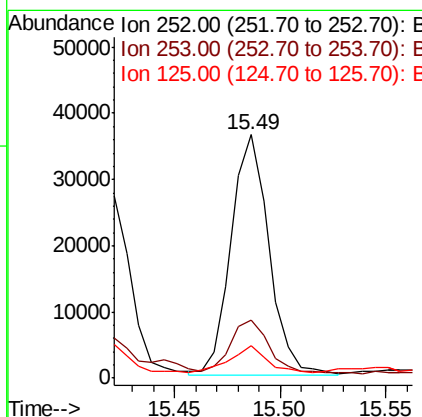
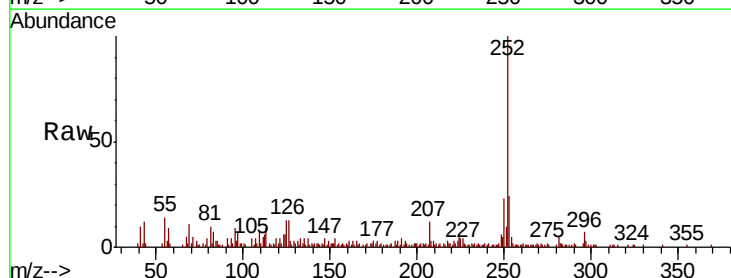
Instrument :
BNA_F
ClientSampleId :

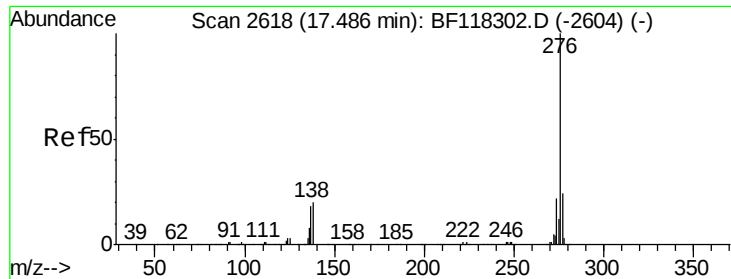
Tot Ion	Ratio	Lower	Upper
252	100		
253	26.1	18.0	27.0
125	12.3	8.0	12.0#



#90
Benzo(a)pyrene
Concen: 3.785 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.02 min
Lab File: BF118411.D
Acq: 31 Dec 2019 17:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.0	25.6
125	13.3	9.0	13.4

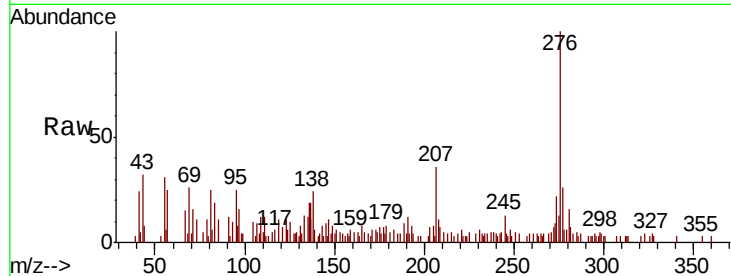




#92
 Benzo(a,h,i)perylene
 Concen: 2.543 ng
 RT: 17.53 min Scan# 2625
 Delta R.T. 0.04 min
 Lab File: BF118411.D
 Acq: 31 Dec 2019 17:59

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.1	28.7
138	23.7	16.1	24.1



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

