

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010819\
 Data File : BF111920.D
 Acq On : 8 Jan 2019 21:12
 Operator : JU/SJ
 Sample : K1044-04
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 09 00:59:29 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 07 14:33:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	121997	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	352501	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	137012	20.00	ng	-0.01
64) Phenanthrene-d10	11.41	188	281390	20.00	ng	0.00
76) Chrysene-d12	14.05	240	255461	20.00	ng	0.00
87) Perylene-d12	15.54	264	175688	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.52	112	570016	79.94	ng	0.00
7) Phenol-d6	6.53	99	741050	80.63	ng	0.00
23) Nitrobenzene-d5	7.44	82	430456	65.26	ng	-0.02
42) 2,4,6-Tribromophenol	10.71	330	158753	89.08	ng	-0.01
45) 2-Fluorobiphenyl	9.24	172	644964	68.64	ng	-0.01
79) Terphenyl-d14	13.00	244	760766	56.53	ng	0.00

Target Compounds

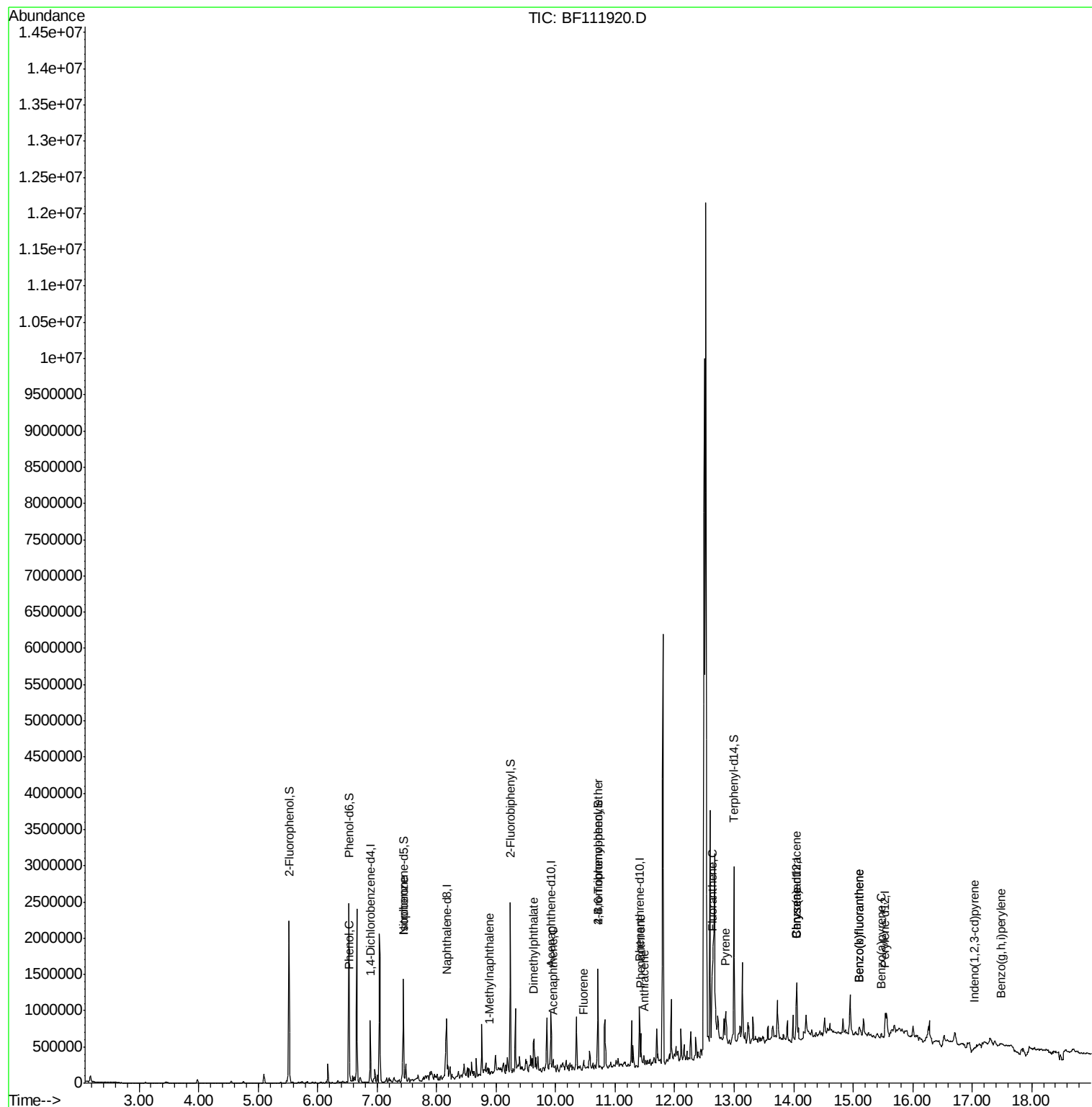
						Qvalue
9) Benzaldehyde	6.43	77	2356	Below Cal	#	70
10) Phenol	6.54	94	43083	4.313 ng	#	78
25) Isophorone	7.44	82	424166	39.715 ng	#	65
38) 1-Methylnaphthalene	8.88	142	20224	2.034 ng		91
50) Dimethylphthalate	9.63	163	92515	8.989 ng		99
52) Acenaphthene	9.96	154	23024	2.686 ng		91
58) Fluorene	10.47	166	29142	3.212 ng		100
67) 4-Bromophenyl-phenylether	10.71	248	9661	2.651 ng	#	1
71) Phenanthrene	11.43	178	147984	9.836 ng		99
72) Anthracene	11.49	178	48316	3.164 ng		98
75) Fluoranthene	12.63	202	192344	12.454 ng		99
78) Pyrene	12.86	202	188497	10.724 ng		99
81) Benzo(a)anthracene	14.04	228	74614	5.075 ng		96
83) Chrysene	14.04	228	74614	5.323 ng		94
86) Indeno(1,2,3-cd)pyrene	17.03	276	20555	2.011 ng		95
88) Benzo(b)fluoranthene	15.10	252	69064	6.572 ng	#	79
89) Benzo(k)fluoranthene	15.10	252	69064	6.991 ng	#	80
90) Benzo(a)pyrene	15.47	252	37161	4.021 ng	#	79
92) Benzo(a,h,i)perylene	17.48	276	26251	3.611 ng	#	79

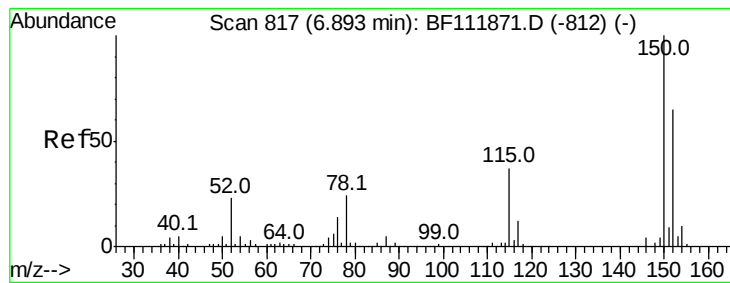
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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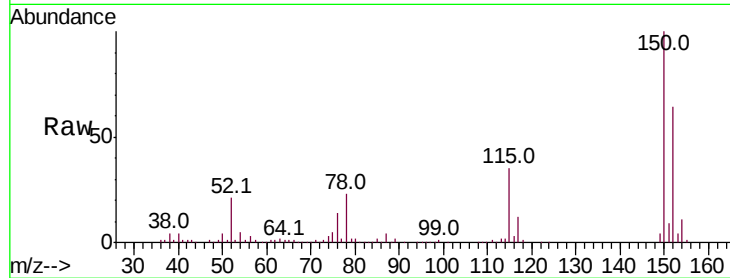




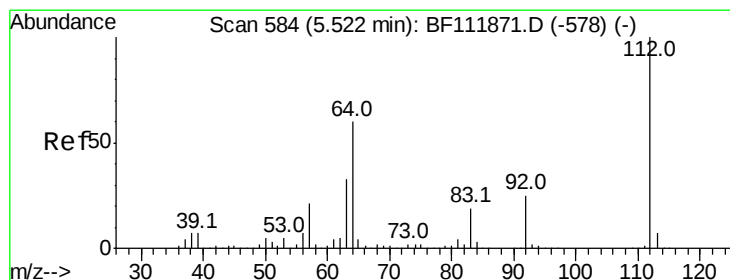
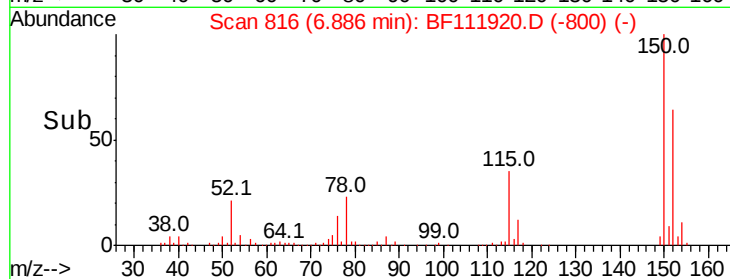
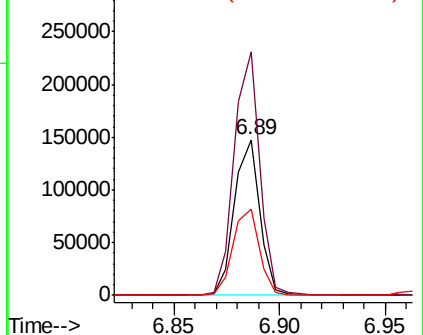
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.89 min Scan# 816
 Delta R.T. -0.01 min
 Lab File: BF111920.D
 Acq: 8 Jan 2019 21:12

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 121997
 Ion Ratio Lower Upper
 152 100
 150 156.4 122.7 184.1
 115 55.0 45.2 67.8

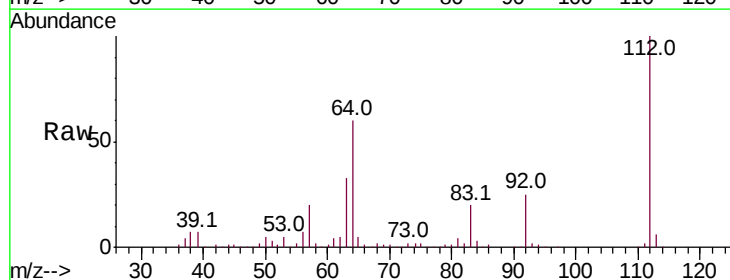


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

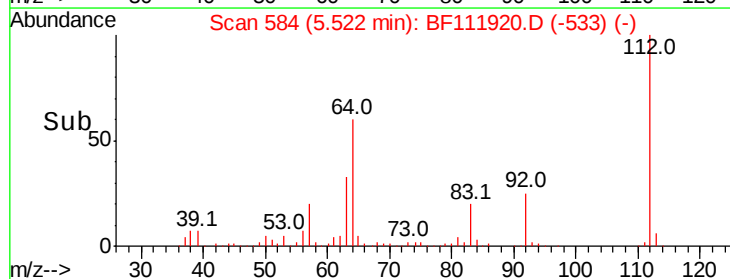
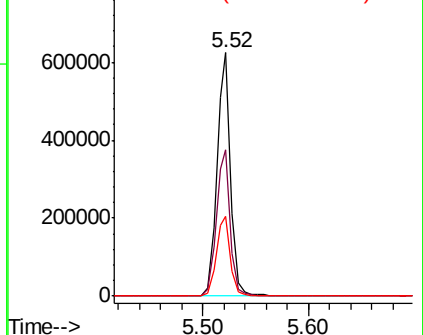


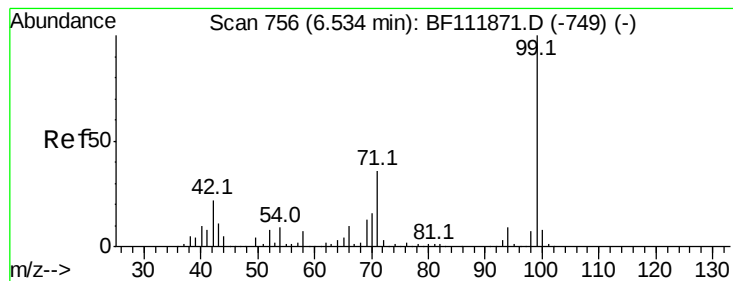
#5
 2-Fluorophenol
 Concen: 79.936 ng
 RT: 5.52 min Scan# 584
 Delta R.T. -0.00 min
 Lab File: BF111920.D
 Acq: 8 Jan 2019 21:12

Tgt Ion:112 Resp: 570016
 Ion Ratio Lower Upper
 112 100
 64 60.1 48.3 72.5
 63 33.0 26.1 39.1



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: 80.629 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.01 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

Instrument :

BNA_F

ClientSampled :

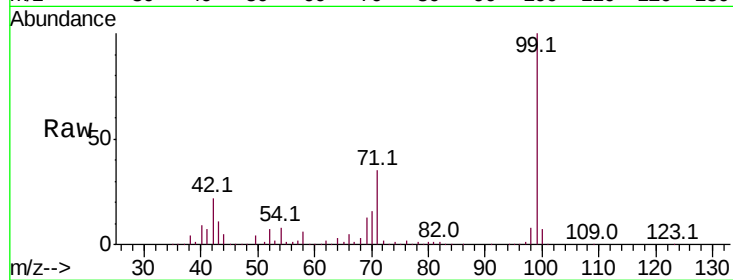
Tot Ion: 99 Resp: 741050

Ion Ratio Lower Upper

99 100

42 21.6 17.9 26.9

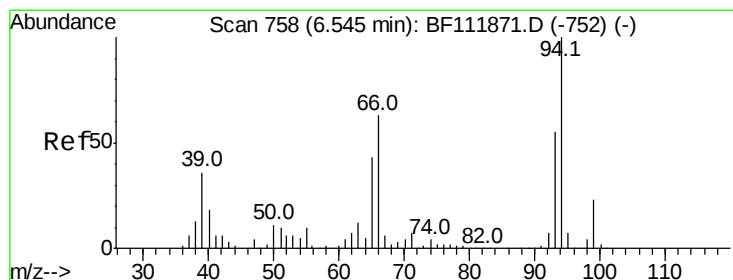
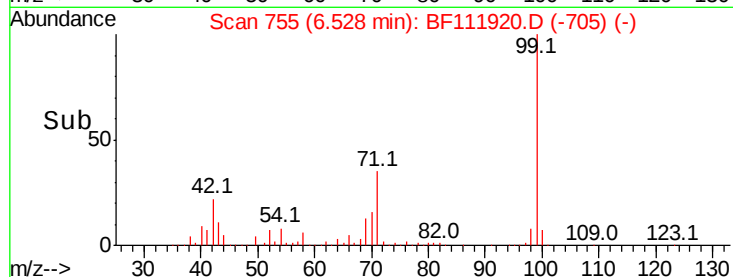
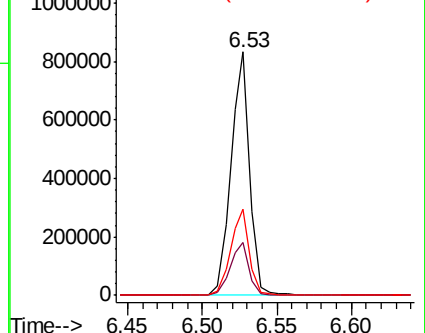
71 35.1 28.7 43.1



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 4.313 ng

RT: 6.54 min Scan# 757

Delta R.T. -0.01 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

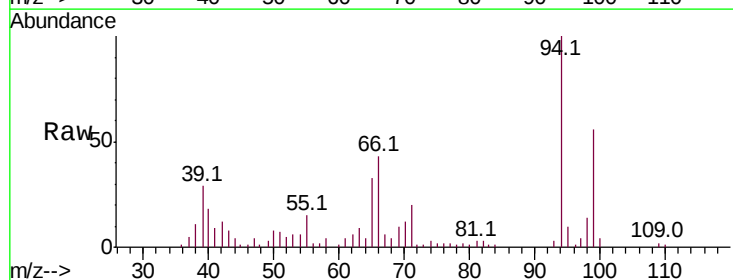
Tgt Ion: 94 Resp: 43083

Ion Ratio Lower Upper

94 100

65 33.3 22.8 62.8

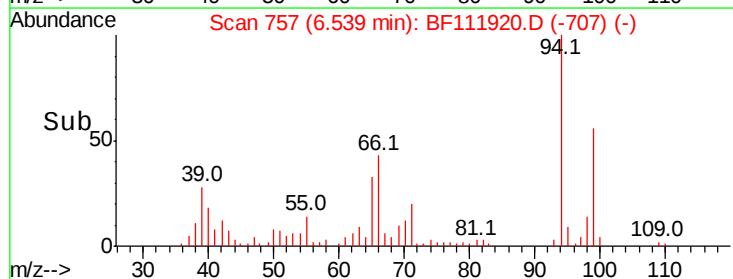
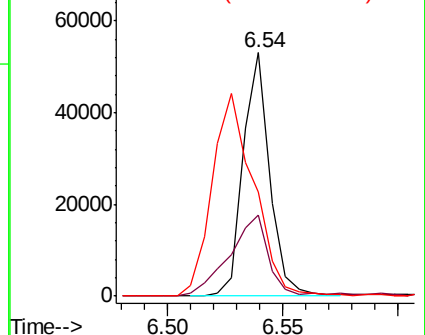
66 43.0 43.3 83.3#

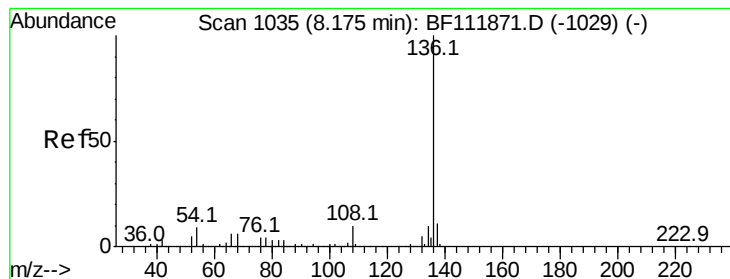


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.17 min Scan# 1034

Delta R.T. -0.01 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 352501

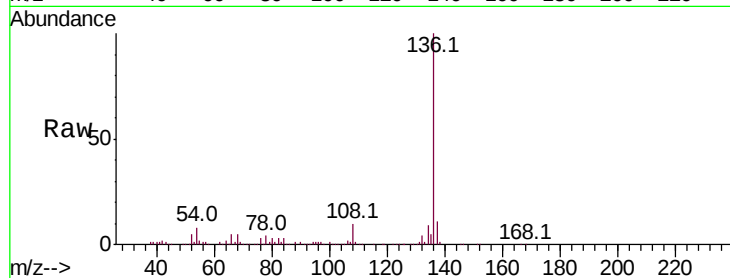
Ion Ratio Lower Upper

136 100

137 10.9 9.1 13.7

54 7.8 7.2 10.8

68 4.9 4.4 6.6

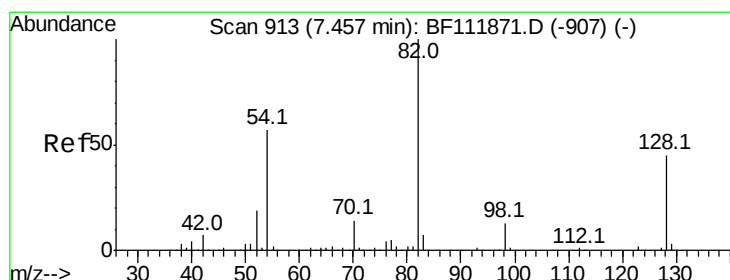
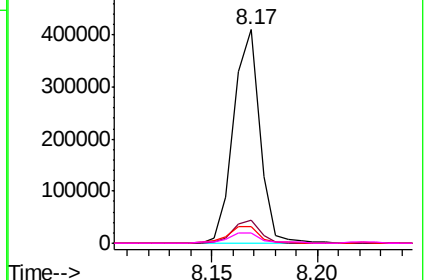
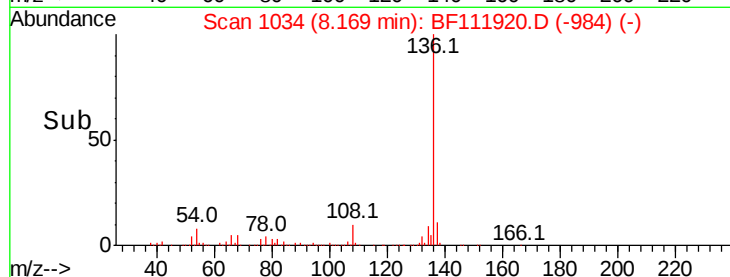


Abundance Ion 136.00 (135.70 to 136.70): E

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: 65.265 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.02 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

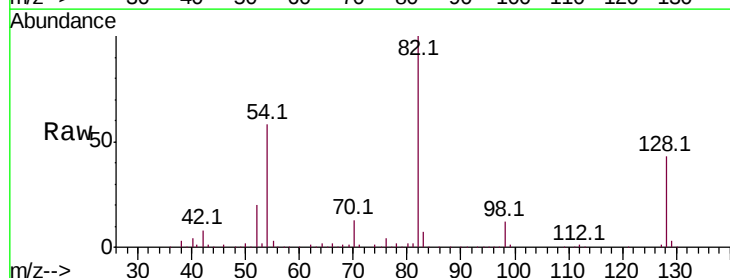
Tgt Ion: 82 Resp: 430456

Ion Ratio Lower Upper

82 100

128 43.0 35.7 53.5

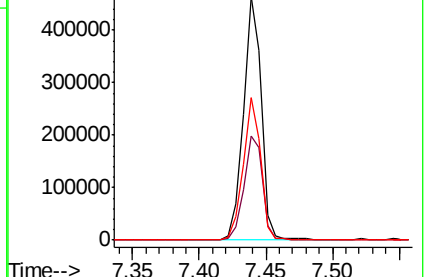
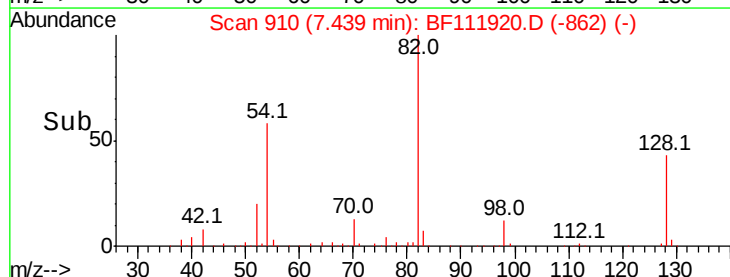
54 58.5 45.8 68.8

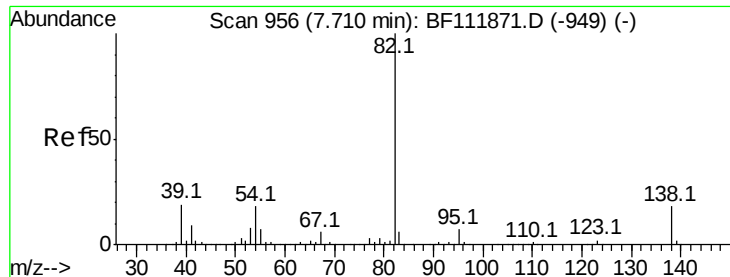


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 39.715 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.27 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

Instrument :

BNA_F

ClientSampleId :

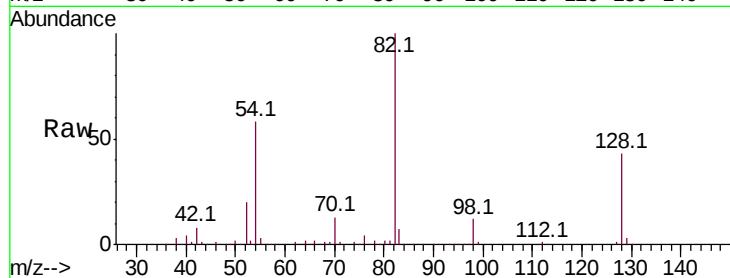
Tot Ion: 82 Resp: 424166

Ion Ratio Lower Upper

82 100

95 0.2 5.8 8.6#

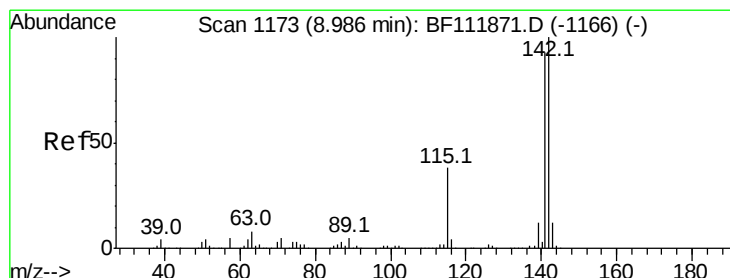
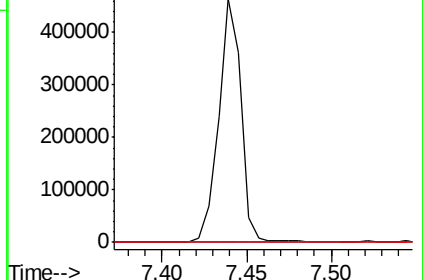
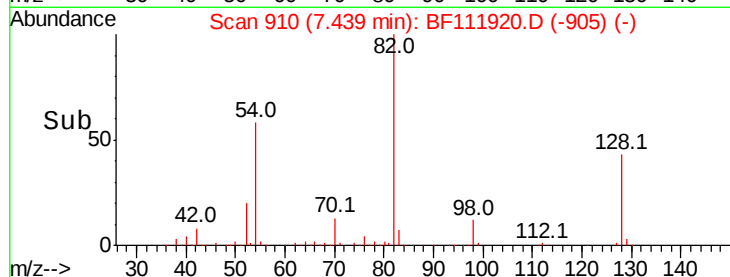
138 0.0 14.4 21.6#



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



#38

1-Methylnaphthalene

Concen: 2.034 ng

RT: 8.88 min Scan# 1155

Delta R.T. -0.11 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

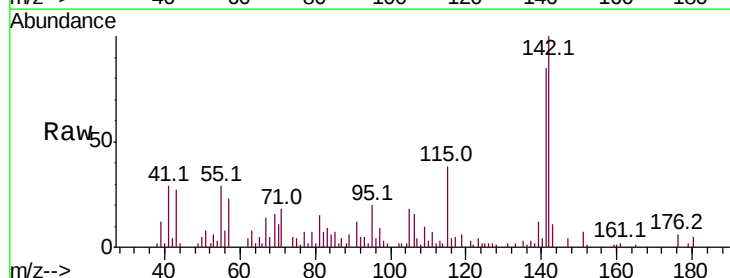
Tgt Ion:142 Resp: 20224

Ion Ratio Lower Upper

142 100

141 84.8 74.8 112.2

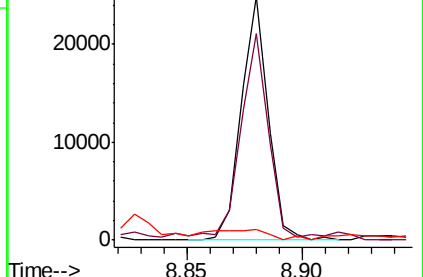
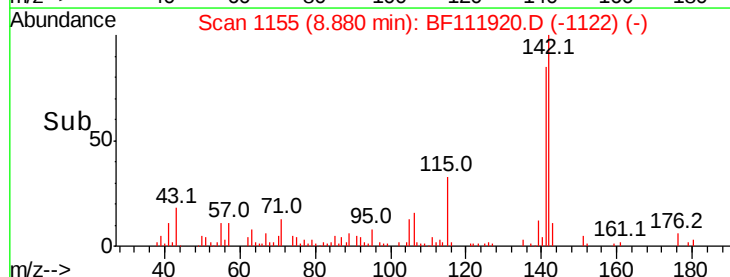
116 4.1 3.1 4.7

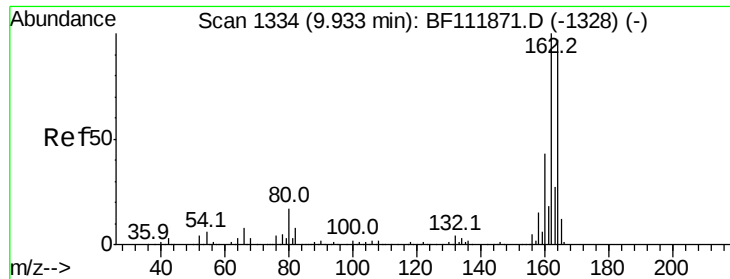


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

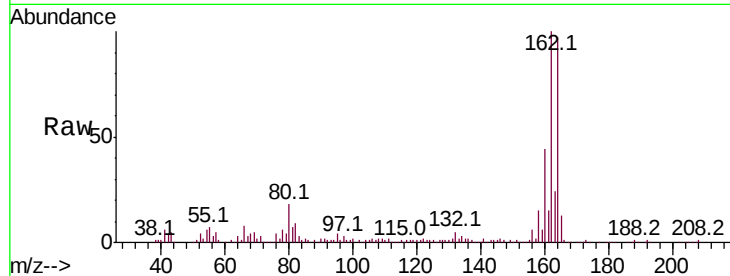




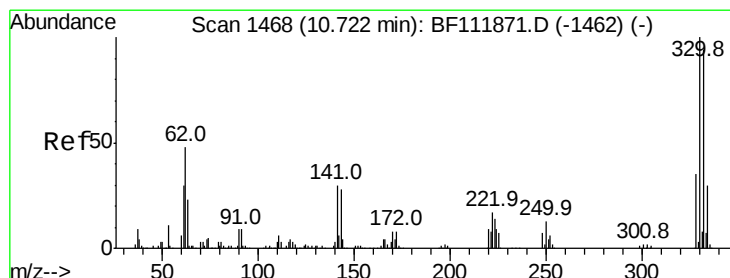
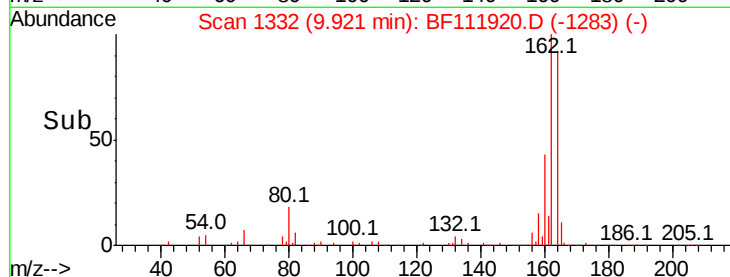
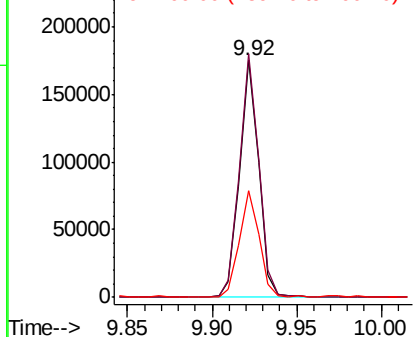
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.92 min Scan# 1332
 Delta R.T. -0.01 min
 Lab File: BF111920.D
 Acq: 8 Jan 2019 21:12

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:164 Resp: 137012
 Ion Ratio Lower Upper
 164 100
 162 102.7 82.2 123.2
 160 45.0 35.5 53.3

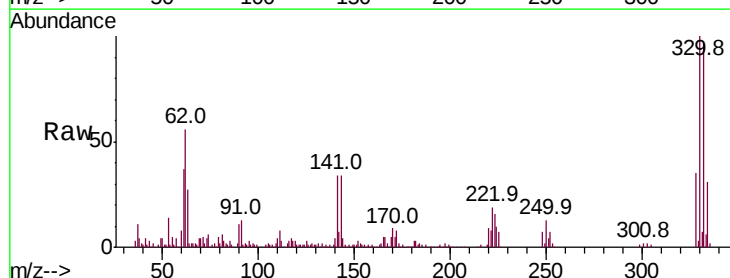


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

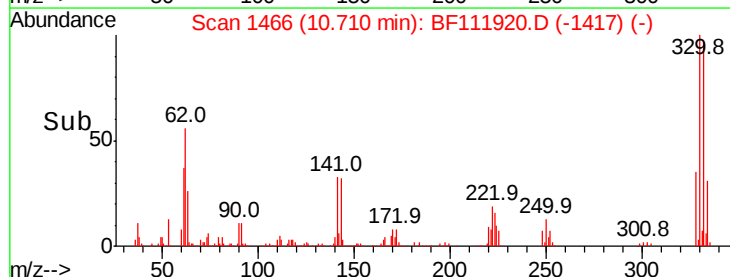
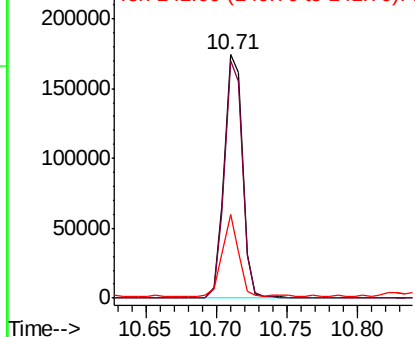


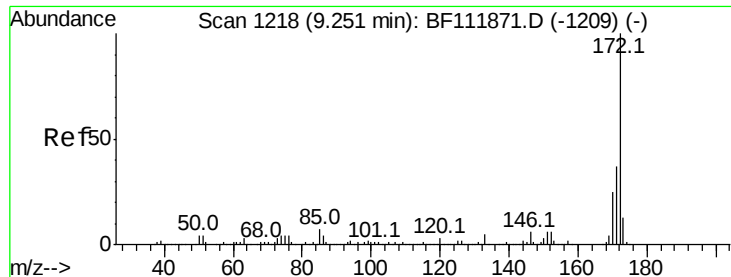
#42
 2,4,6-Tribromophenol
 Concen: 89.081 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: BF111920.D
 Acq: 8 Jan 2019 21:12

Tgt Ion:330 Resp: 158753
 Ion Ratio Lower Upper
 330 100
 332 96.1 76.9 115.3
 141 29.1 23.7 35.5



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

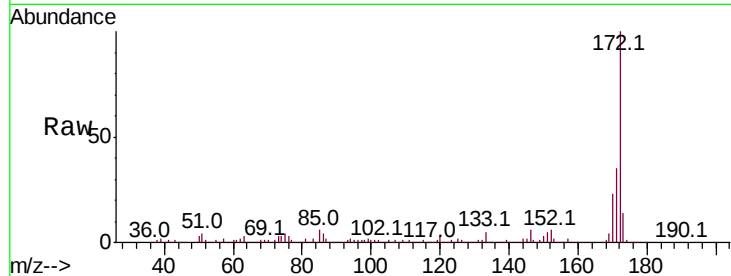




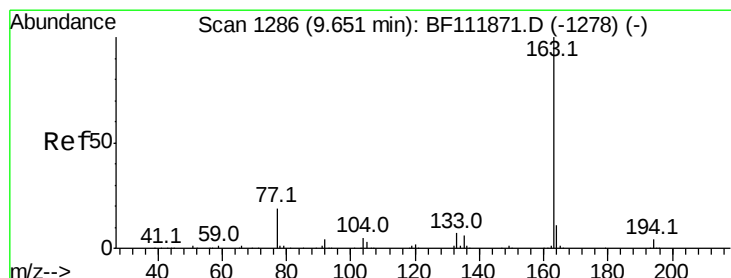
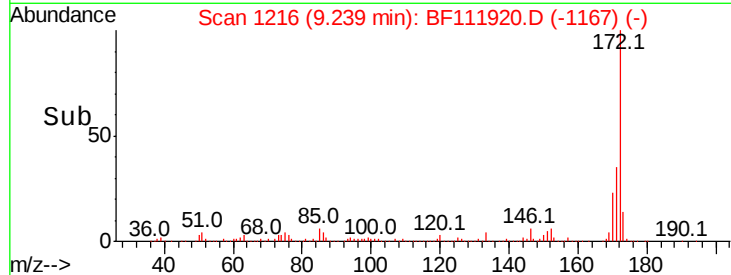
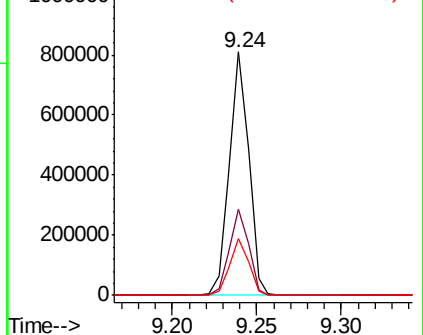
#45
2-Fluorobiphenyl
Concen: 68.643 ng
RT: 9.24 min Scan# 1216
Delta R.T. -0.01 min
Lab File: BF111920.D
Acq: 8 Jan 2019 21:12

Instrument :
BNA_F
ClientSampled :

Tot Ion:172 Resp: 644964
Ion Ratio Lower Upper
172 100
171 35.3 29.6 44.4
170 23.5 19.8 29.8

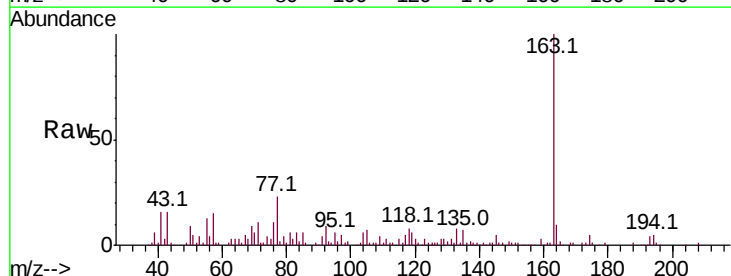


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

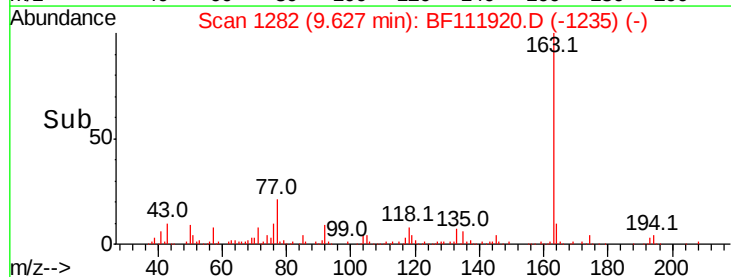
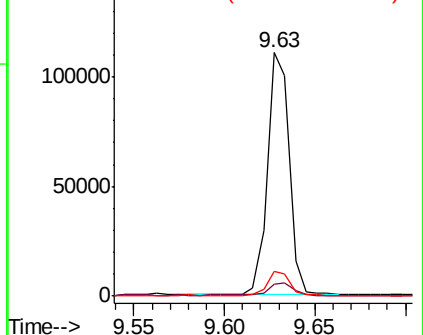


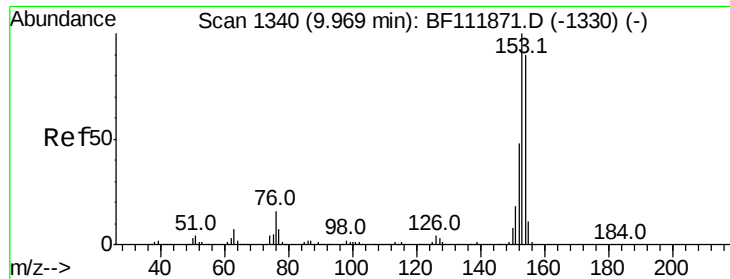
#50
Dimethylphthalate
Concen: 8.989 ng
RT: 9.63 min Scan# 1282
Delta R.T. -0.02 min
Lab File: BF111920.D
Acq: 8 Jan 2019 21:12

Tgt Ion:163 Resp: 92515
Ion Ratio Lower Upper
163 100
194 4.9 3.4 5.2
164 10.3 8.5 12.7



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





#52

Acenaphthene

Concen: 2.686 ng

RT: 9.96 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

Instrument :

BNA_F

ClientSampleId :

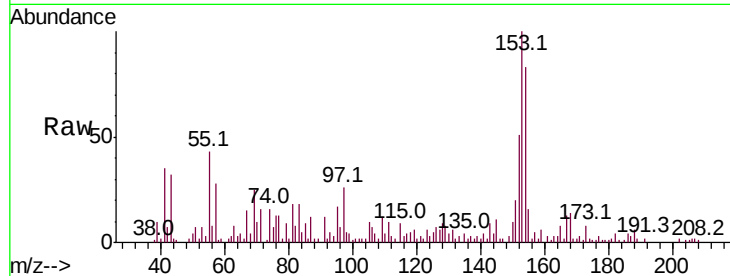
Tot Ion:154 Resp: 23024

Ion Ratio Lower Upper

154 100

153 120.3 89.4 134.0

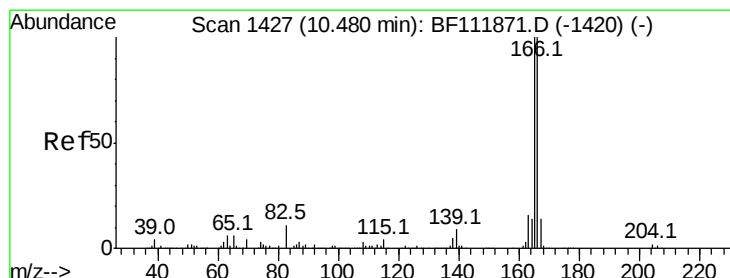
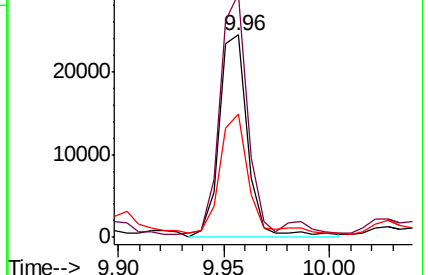
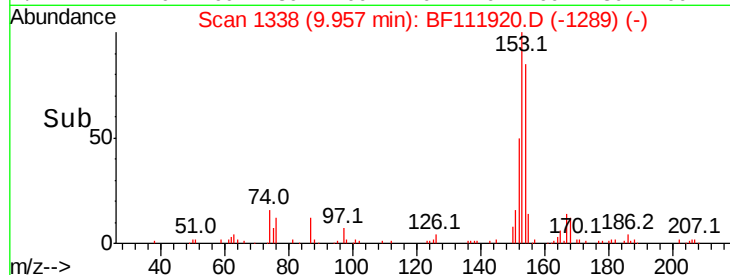
152 61.2 43.1 64.7



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#58

Fluorene

Concen: 3.212 ng

RT: 10.47 min Scan# 1425

Delta R.T. -0.01 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

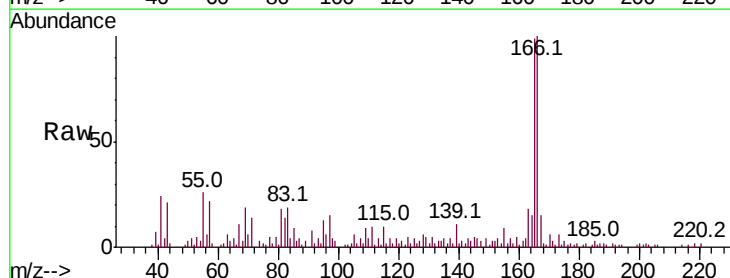
Tgt Ion:166 Resp: 29142

Ion Ratio Lower Upper

166 100

165 99.5 79.7 119.5

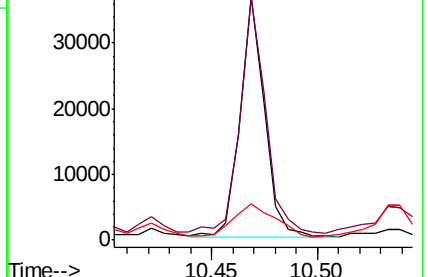
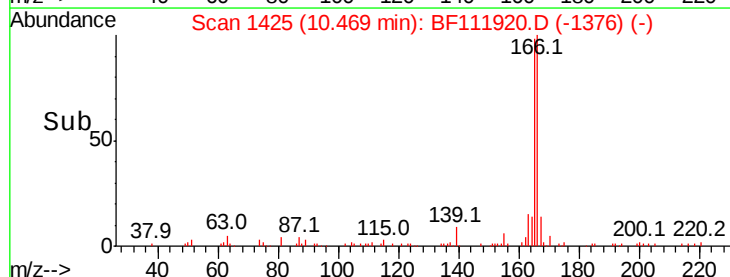
167 14.8 11.1 16.7

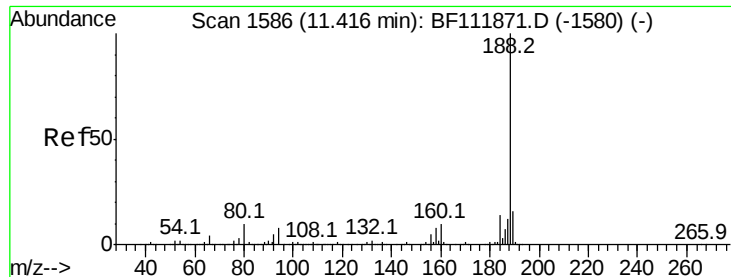


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

Instrument :

BNA_F

ClientSampleId :

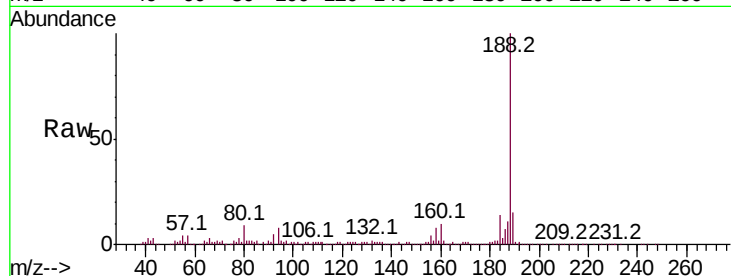
Tot Ion:188 Resp: 281390

Ion Ratio Lower Upper

188 100

94 8.1 6.6 10.0

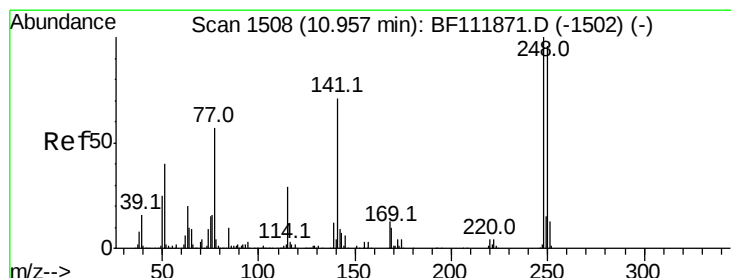
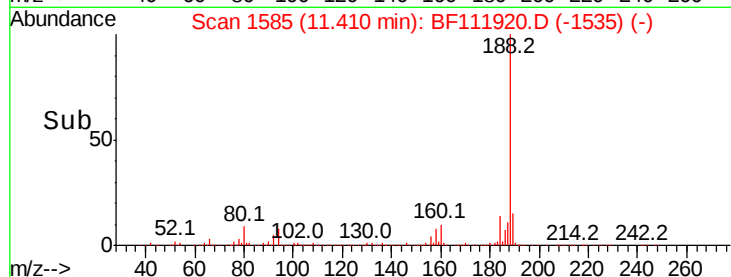
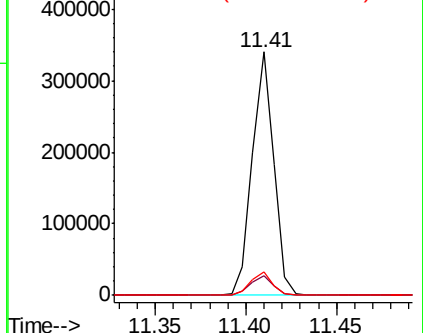
80 9.5 7.7 11.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#67

4-Bromophenyl-phenylether

Concen: 2.651 ng

RT: 10.71 min Scan# 1466

Delta R.T. -0.25 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

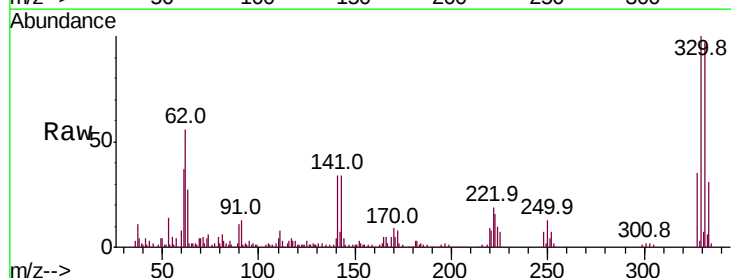
Tgt Ion:248 Resp: 9661

Ion Ratio Lower Upper

248 100

250 186.7 76.8 115.2#

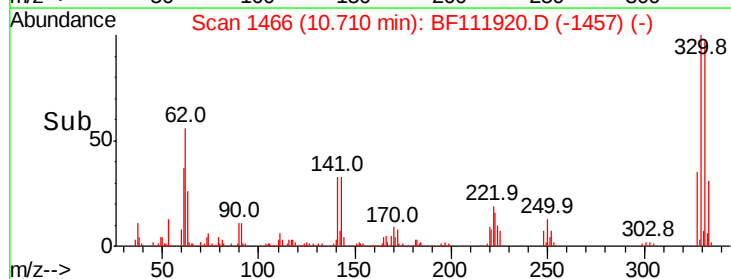
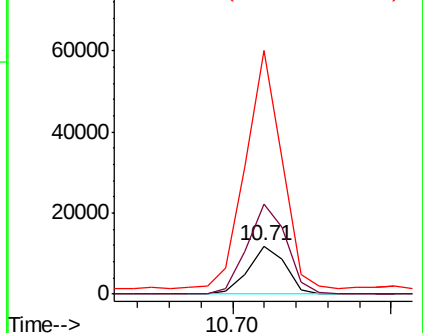
141 505.7 57.0 85.6#

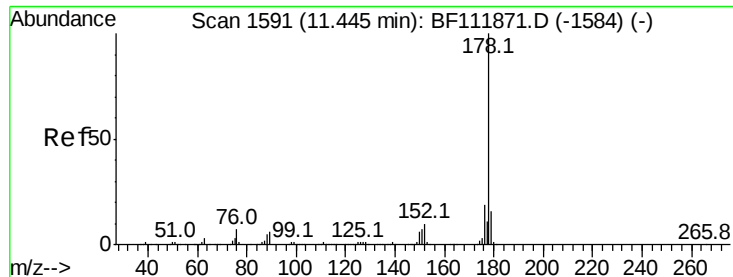


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#71

Phenanthrene

Concen: 9.836 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.01 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

Instrument :

BNA_F

ClientSampleId :

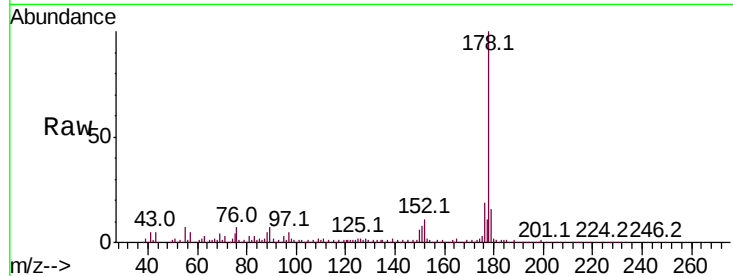
Tot Ion:178 Resp: 147984

Ion Ratio Lower Upper

178 100

176 18.9 15.6 23.4

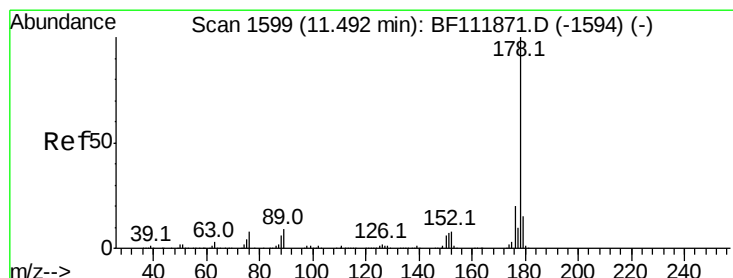
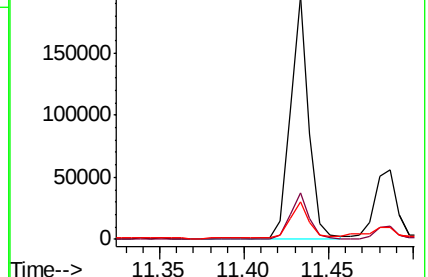
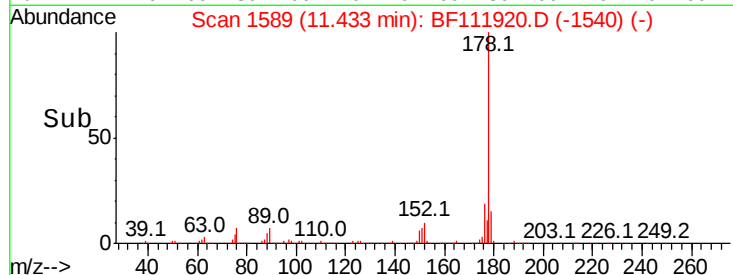
179 15.6 12.6 18.8



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: 3.164 ng

RT: 11.49 min Scan# 1598

Delta R.T. -0.01 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

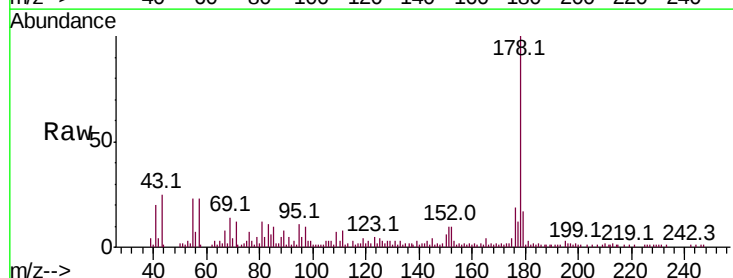
Tgt Ion:178 Resp: 48316

Ion Ratio Lower Upper

178 100

176 19.5 15.7 23.5

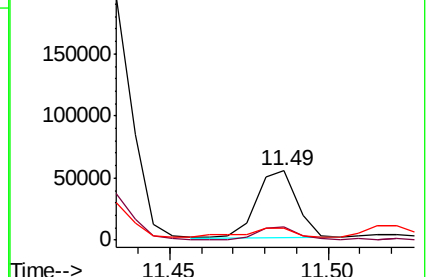
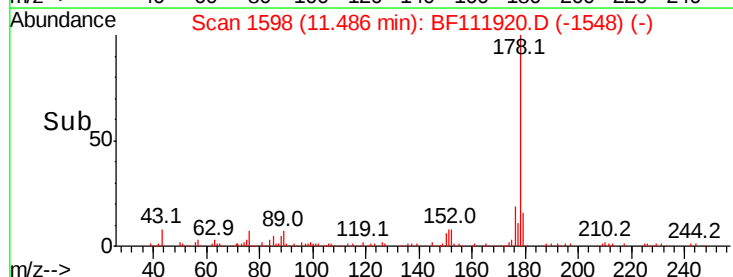
179 17.5 12.4 18.6

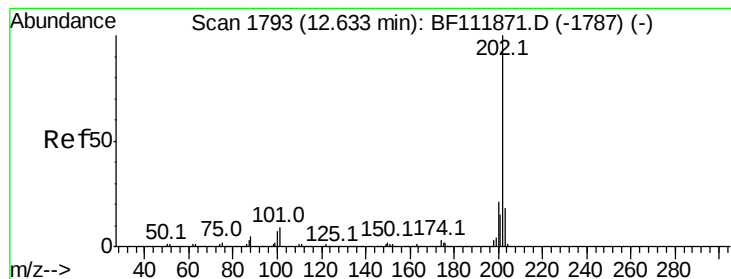


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 12.454 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

Instrument :

BNA_F

ClientSampleId :

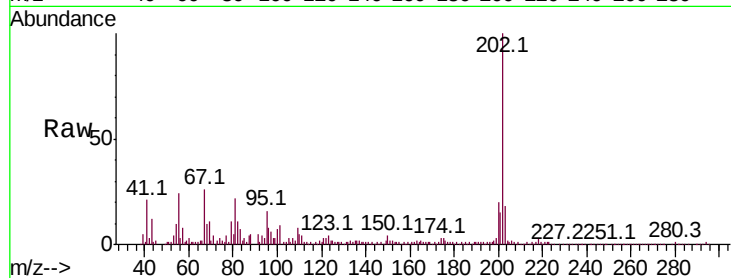
Tot Ion:202 Resp: 192344

Ion Ratio Lower Upper

202 100

101 9.1 0.0 29.3

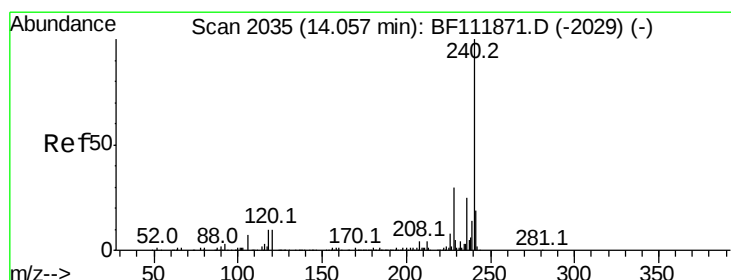
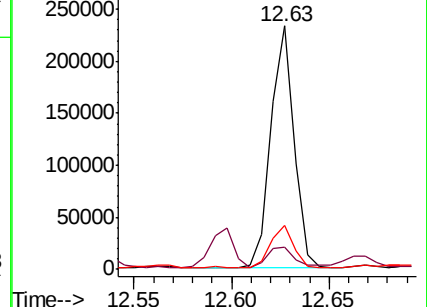
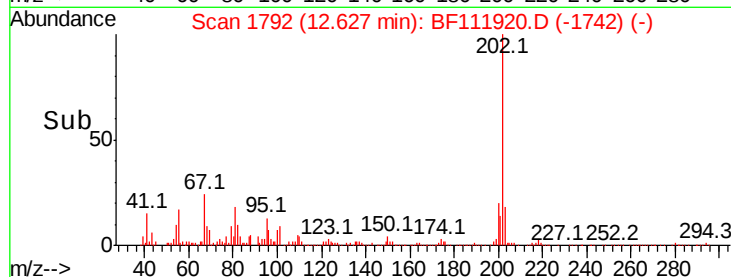
203 18.1 0.0 37.6



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. -0.01 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

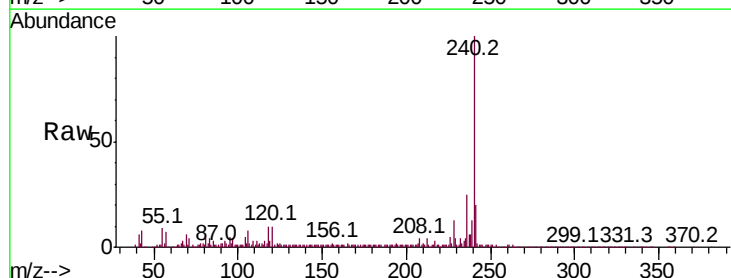
Tgt Ion:240 Resp: 255461

Ion Ratio Lower Upper

240 100

120 10.3 8.2 12.2

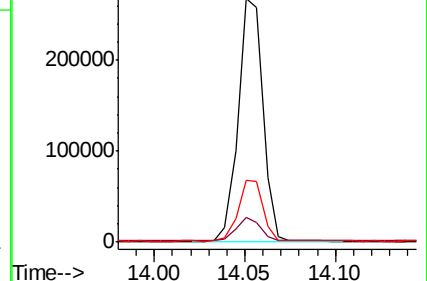
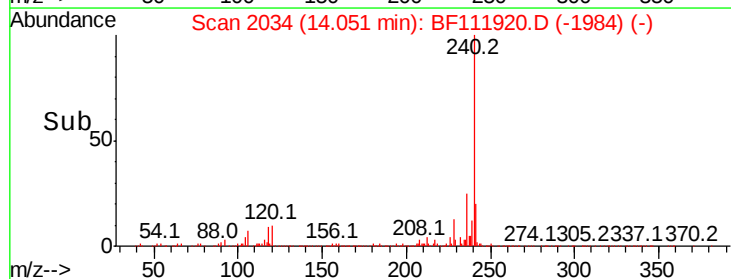
236 25.1 20.2 30.4

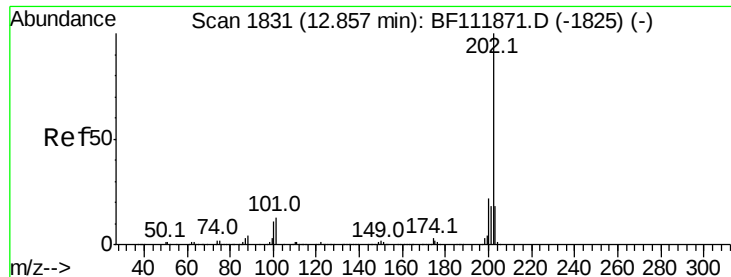


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

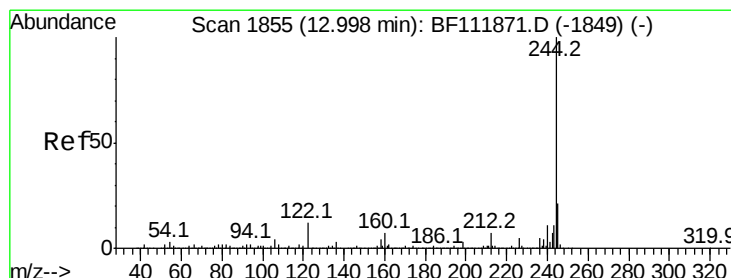
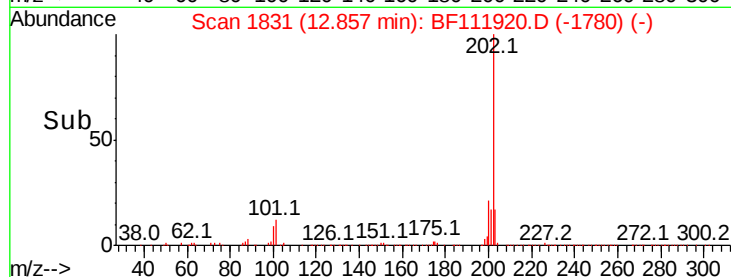
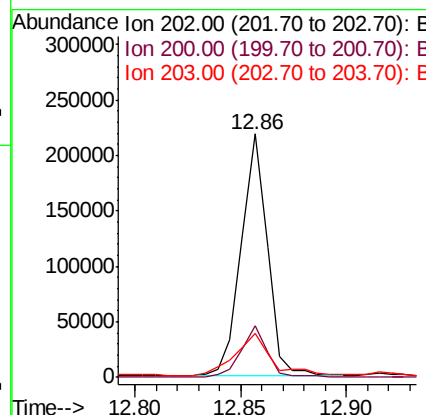
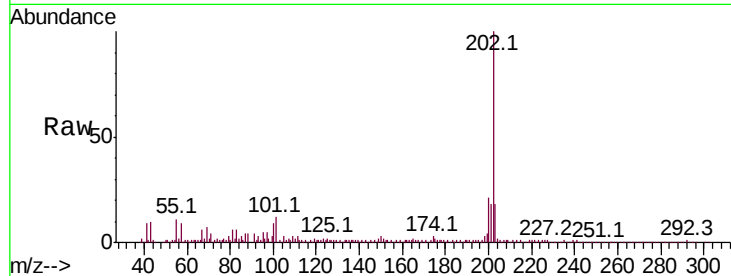




#78
Pvrene
Concen: 10.724 ng
RT: 12.86 min Scan# 1831
Delta R.T. -0.00 min
Lab File: BF111920.D
Acq: 8 Jan 2019 21:12

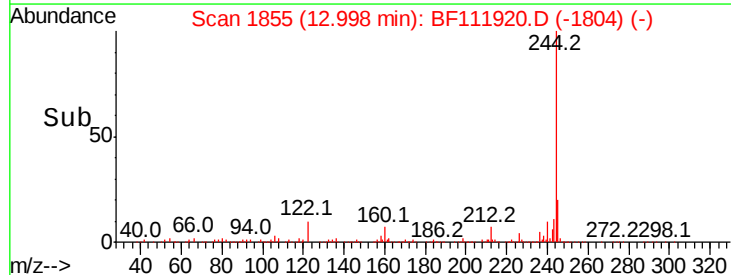
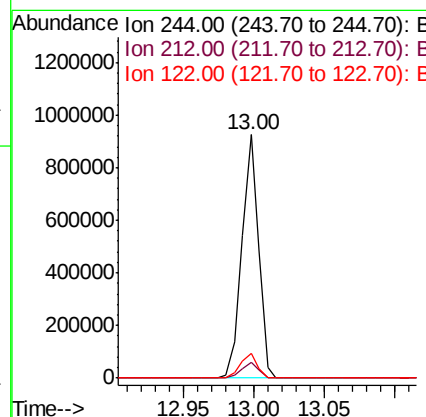
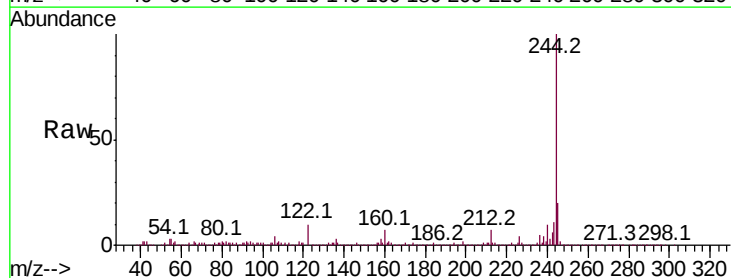
Instrument :
BNA_F
ClientSampled :

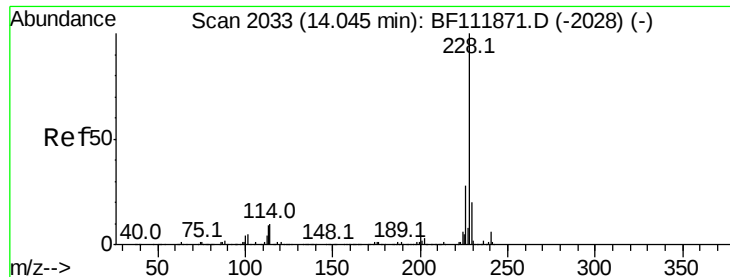
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.4	26.2
203	17.9	14.6	21.8



#79
Terphenyl-d14
Concen: 56.529 ng
RT: 13.00 min Scan# 1855
Delta R.T. -0.00 min
Lab File: BF111920.D
Acq: 8 Jan 2019 21:12

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.8	8.8
122	10.2	9.5	14.3





#81

Benzo(a)anthracene

Concen: 5.075 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.00 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

Instrument :

BNA_F

ClientSampleId :

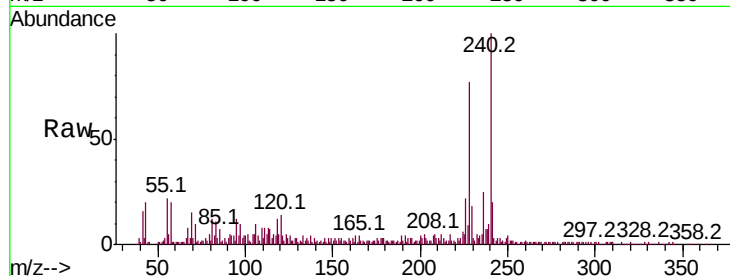
Tot Ion:228 Resp: 74614

Ion Ratio Lower Upper

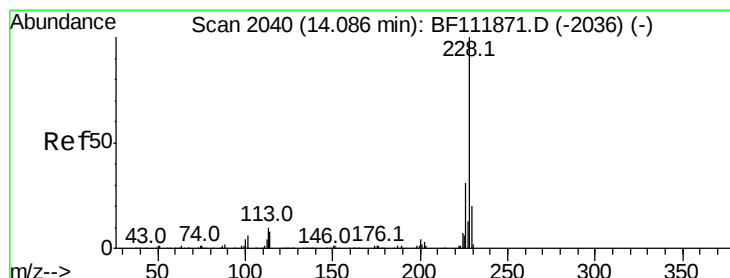
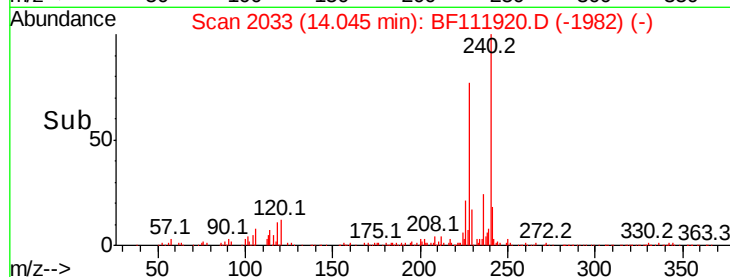
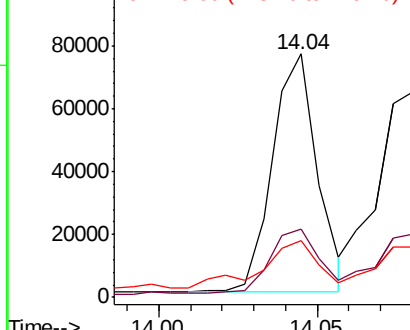
228 100

226 28.2 22.2 33.2

229 23.5 16.2 24.2



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: 5.323 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.04 min

Lab File: BF111920.D

Acq: 8 Jan 2019 21:12

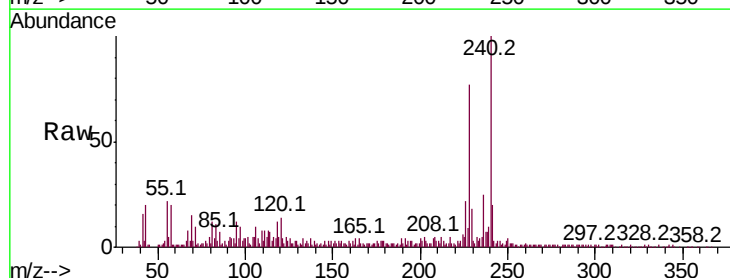
Tgt Ion:228 Resp: 74614

Ion Ratio Lower Upper

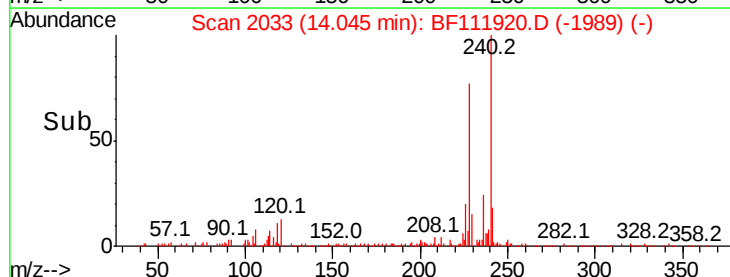
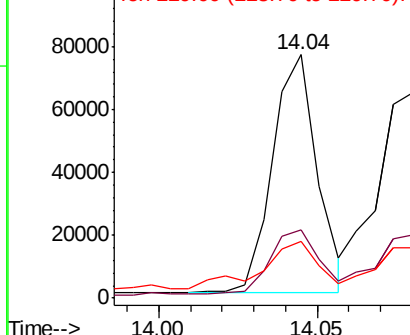
228 100

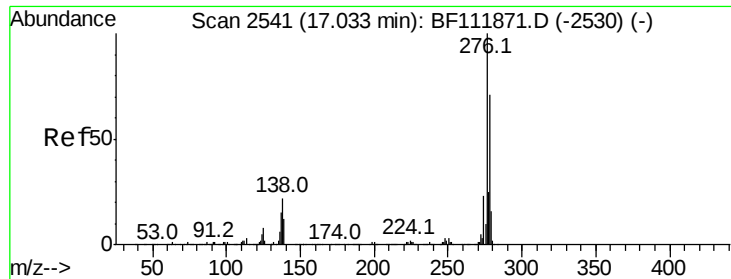
226 28.2 24.6 37.0

229 23.5 15.7 23.5



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

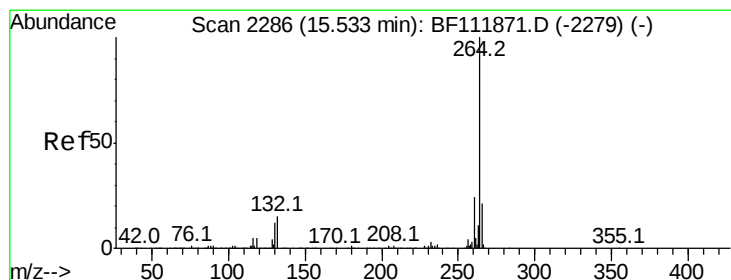
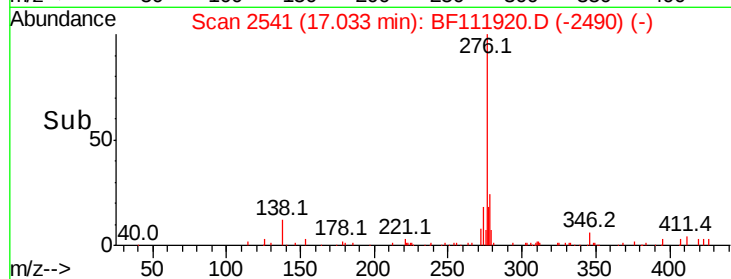
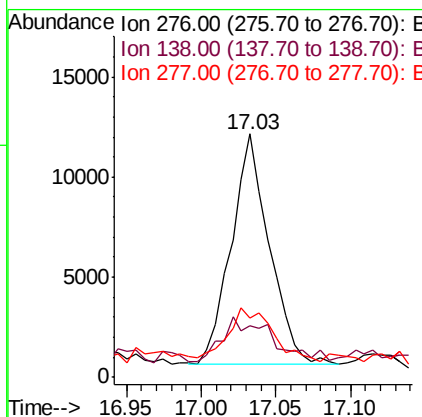
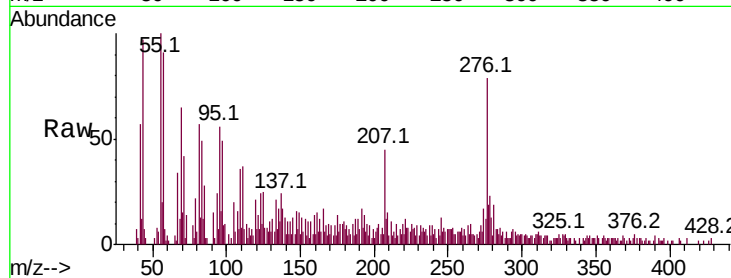




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 2.011 ng
 RT: 17.03 min Scan# 2541
 Delta R.T. -0.00 min
 Lab File: BF111920.D
 Acq: 8 Jan 2019 21:12

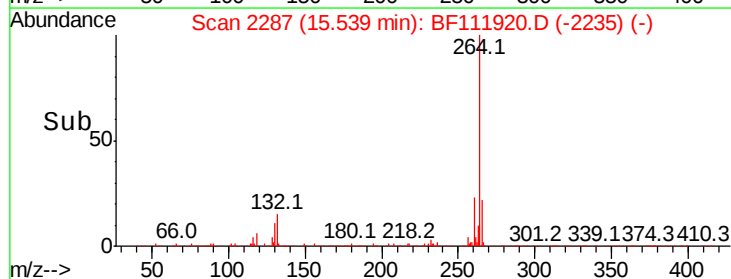
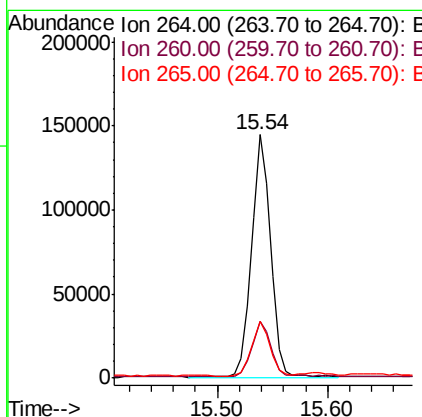
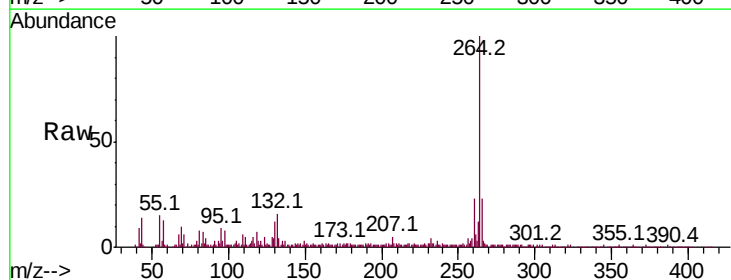
Instrument :
 BNA_F
 ClientSampleId :

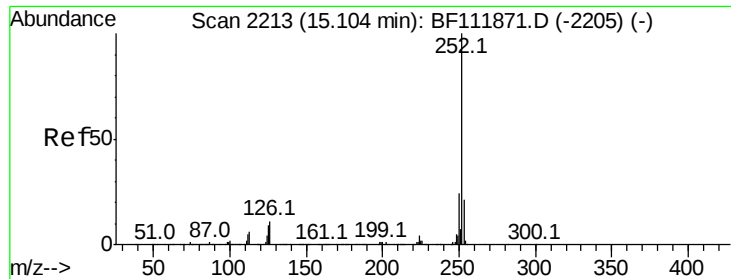
Tot Ion	Ratio	Lower	Upper
276	100		
138	25.3	18.1	27.1
277	26.9	19.9	29.9



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.54 min Scan# 2287
 Delta R.T. 0.01 min
 Lab File: BF111920.D
 Acq: 8 Jan 2019 21:12

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	23.1	17.1	25.7

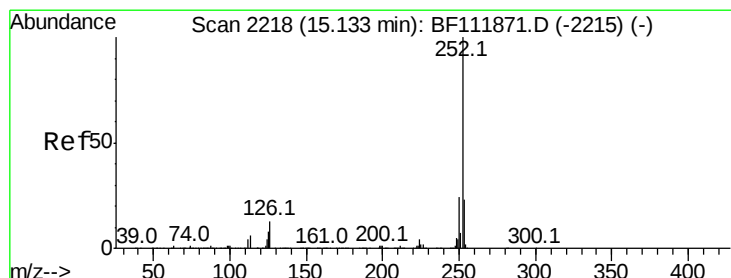
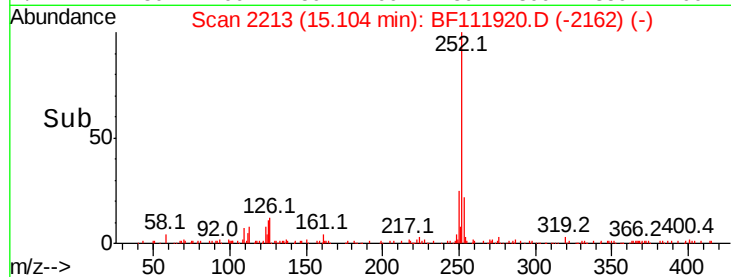
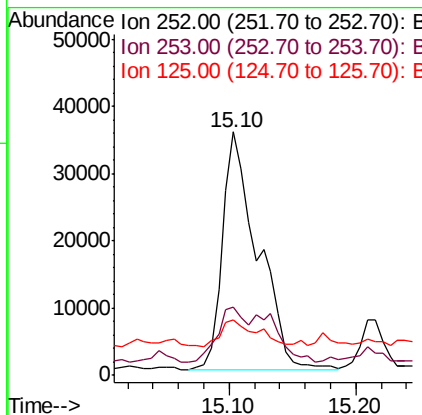
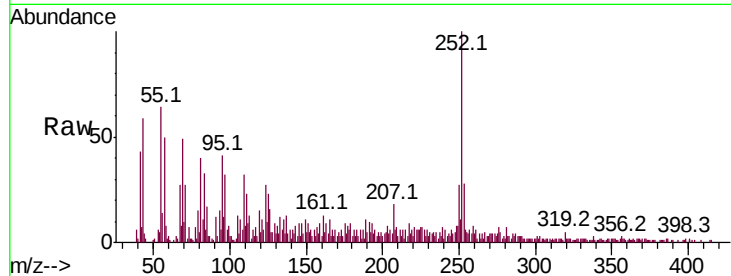




#88
Benzo(b)fluoranthene
Concen: 6.572 ng
RT: 15.10 min Scan# 2213
Delta R.T. -0.00 min
Lab File: BF111920.D
Acq: 8 Jan 2019 21:12

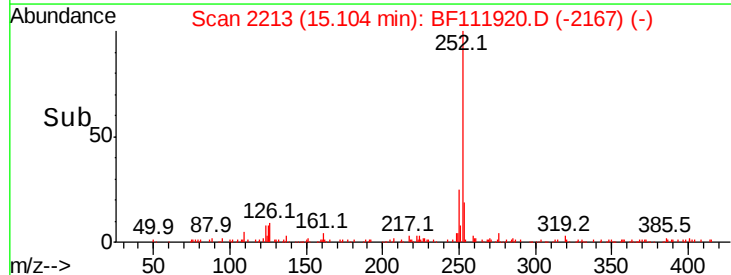
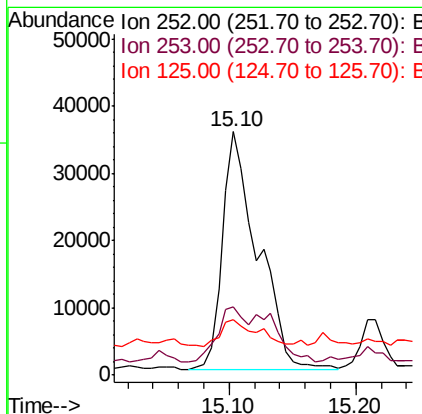
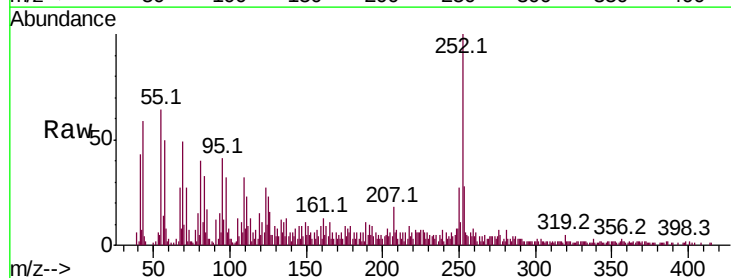
Instrument :
BNA_F
ClientSampleId :

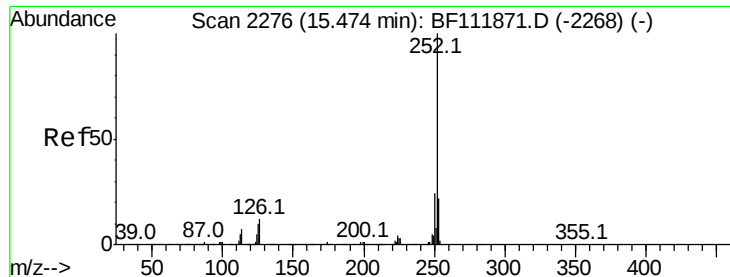
Tot Ion	Ratio	Lower	Upper
252	100		
253	27.8	17.0	25.6#
125	23.0	7.1	10.7#



#89
Benzo(k)fluoranthene
Concen: 6.991 ng
RT: 15.10 min Scan# 2213
Delta R.T. -0.03 min
Lab File: BF111920.D
Acq: 8 Jan 2019 21:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.8	17.8	26.6#
125	23.0	7.0	10.4#

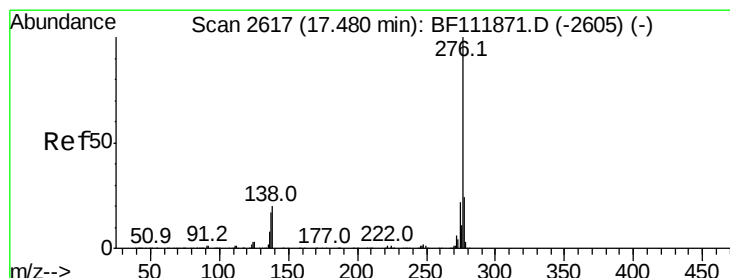
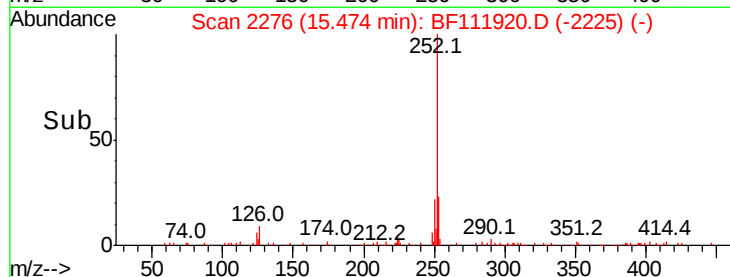
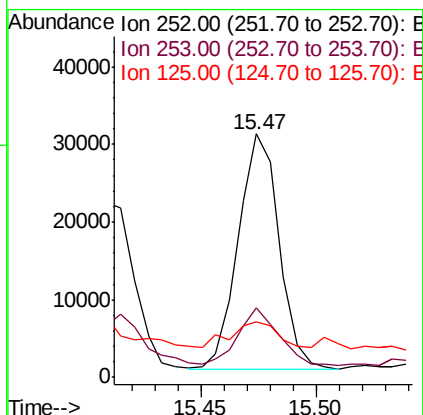
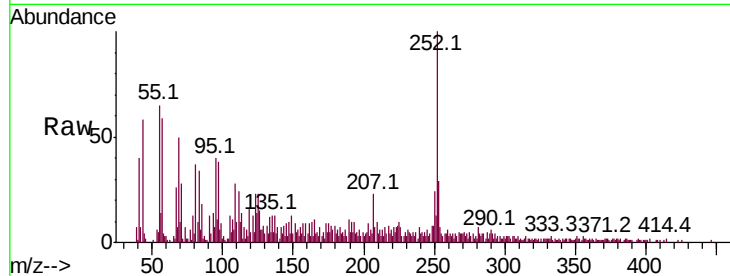




#90
Benzo(a)pyrene
Concen: 4.021 ng
RT: 15.47 min Scan# 2276
Delta R.T. -0.00 min
Lab File: BF111920.D
Acq: 8 Jan 2019 21:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	28.7	17.4	26.2#
125	22.9	7.9	11.9#



#92
Benzo(g,h,i)perylene
Concen: 3.611 ng
RT: 17.48 min Scan# 2617
Delta R.T. -0.00 min
Lab File: BF111920.D
Acq: 8 Jan 2019 21:12

Tgt Ion	Ratio	Lower	Upper
276	100		
277	34.1	19.0	28.6#
138	29.5	16.2	24.2#

