

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013020\
 Data File : BF118769.D
 Acq On : 30 Jan 2020 23:25
 Operator : CG/JU
 Sample : L1004-16 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 31 00:17:02 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 27 14:24:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	236616	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	873221	20.00	ng	-0.02
39) Acenaphthene-d10	9.88	164	449476	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	761921	20.00	ng	-0.02
76) Chrysene-d12	14.00	240	661949	20.00	ng	-0.02
87) Perylene-d12	15.47	264	742350	20.00	ng	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.45	112	684516	53.73	ng	-0.03
7) Phenol-d6	6.46	99	824697	49.80	ng	-0.03
23) Nitrobenzene-d5	7.40	82	505874	32.40	ng	-0.02
42) 2,4,6-Tribromophenol	10.66	330	252340	48.54	ng	-0.02
45) 2-Fluorobiphenyl	9.20	172	1083522	39.62	ng	-0.02
79) Terphenyl-d14	12.95	244	1219173	40.17	ng	-0.01

Target Compounds

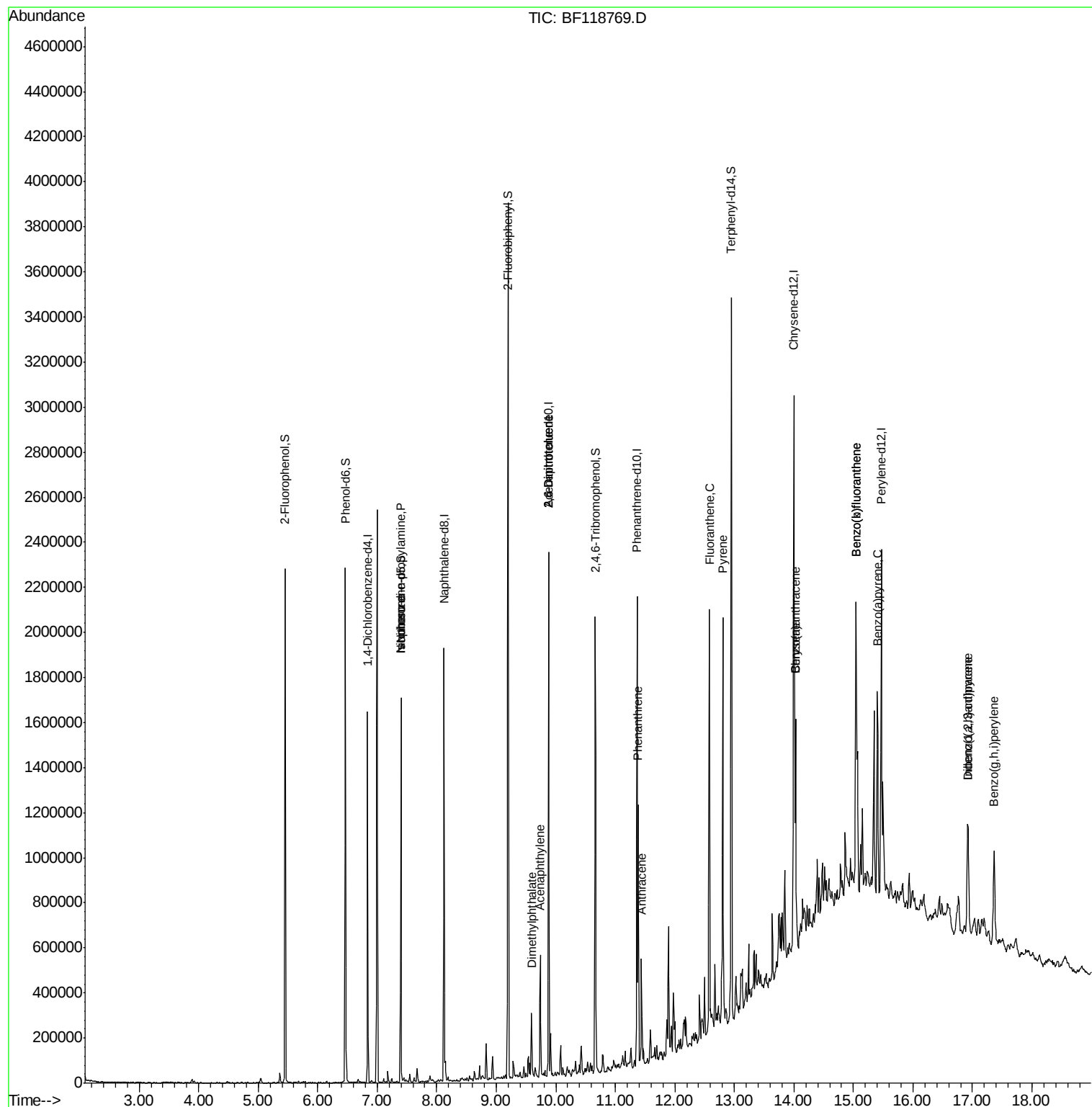
						Qvalue
19) n-Nitroso-di-n-propylamine	7.40	70	65317	5.842	ng	# 75
25) Isophorone	7.40	82	505864	17.765	ng	# 63
49) Acenaphthylene	9.74	152	209764	5.711	ng	97
50) Dimethylphthalate	9.59	163	105712	3.610	ng	100
51) 2,6-Dinitrotoluene	9.88	165	60389	9.209	ng	# 29
57) 2,4-Dinitrotoluene	9.88	165	60389	7.305	ng	# 30
71) Phenanthrene	11.39	178	412958	11.234	ng	96
72) Anthracene	11.44	178	171418	4.713	ng	98
75) Fluoranthene	12.58	202	767656	19.801	ng	96
78) Pyrene	12.80	202	785527	17.479	ng	97
81) Benzo(a)anthracene	14.03	228	433362	10.883	ng	96
83) Chrysene	14.03	228	433362	11.355	ng	97
86) Indeno(1,2,3-cd)pyrene	16.92	276	339771	10.246	ng	95
88) Benzo(b)fluoranthene	15.04	252	977310	20.944	ng	98
89) Benzo(k)fluoranthene	15.04	252	977310	22.607	ng	99
90) Benzo(a)pyrene	15.40	252	415494	10.322	ng	99
91) Dibenzo(a,h)anthracene	16.93	278	80829	2.270	ng	# 87
92) Benzo(g,h,i)perylene	17.37	276	355092	10.271	ng	100

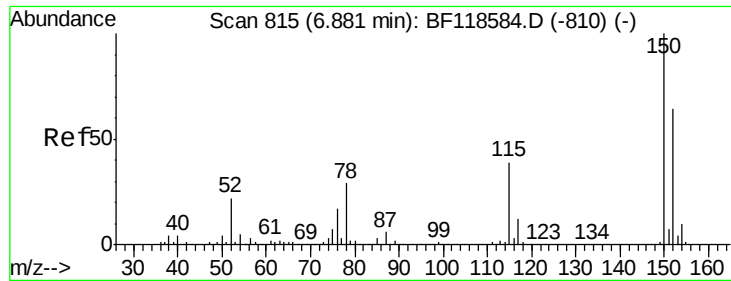
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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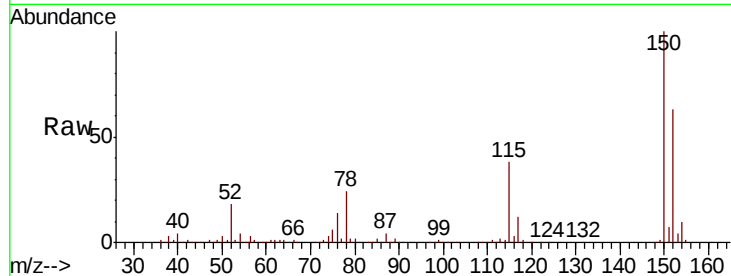


#1

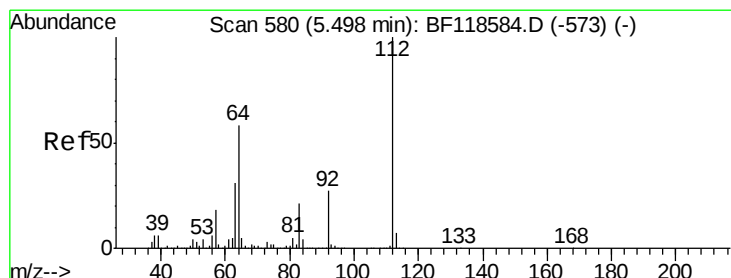
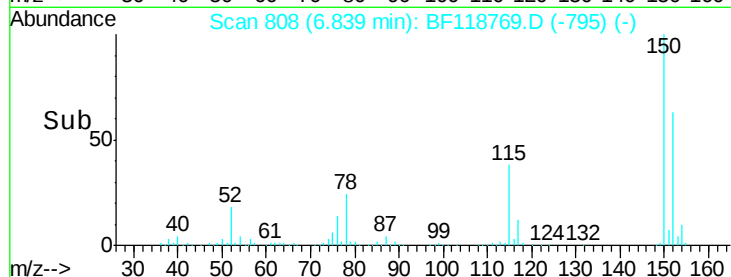
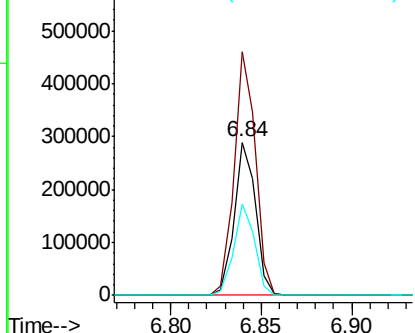
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.84 min Scan# 808
Delta R.T. -0.02 min
Lab File: BF118769.D
Acq: 30 Jan 2020 23:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.1	123.7	185.5
115	59.9	45.1	67.7



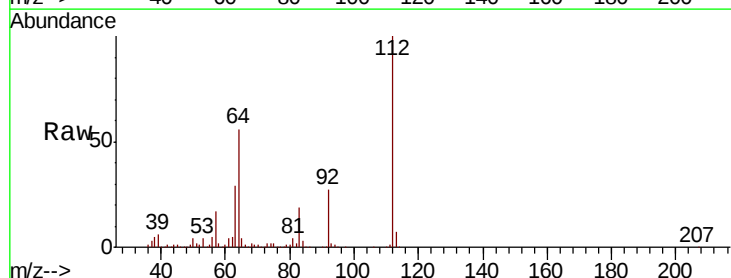
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



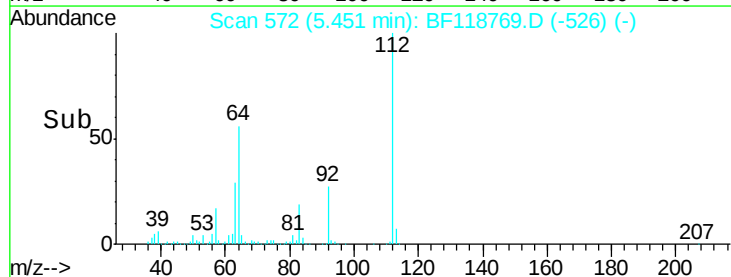
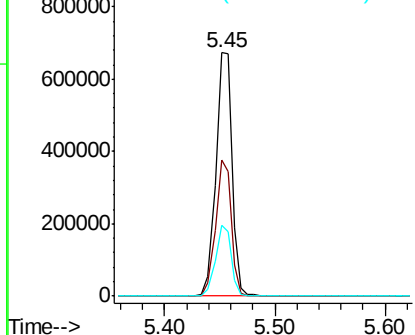
#5

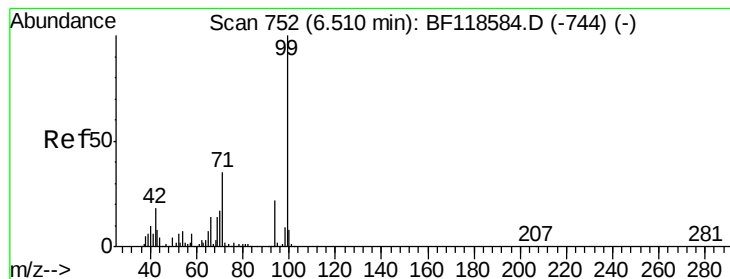
2-Fluorophenol
Concen: 53.729 ng
RT: 5.45 min Scan# 572
Delta R.T. -0.03 min
Lab File: BF118769.D
Acq: 30 Jan 2020 23:25

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.0	42.4	63.6
63	29.3	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: 49.804 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.03 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

Instrument :

BNA_F

ClientSampled :

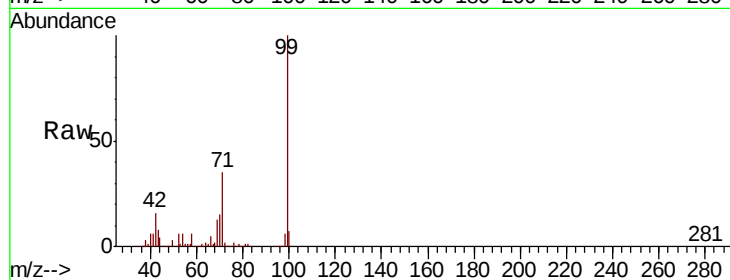
Tot Ion: 99 Resp: 824697

Ion Ratio Lower Upper

99 100

42 16.5 13.1 19.7

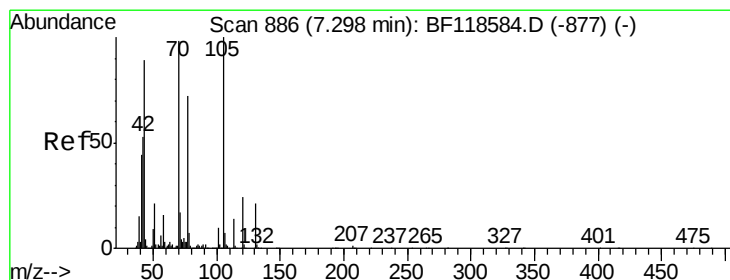
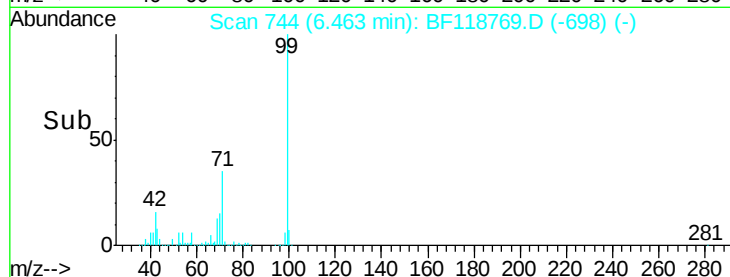
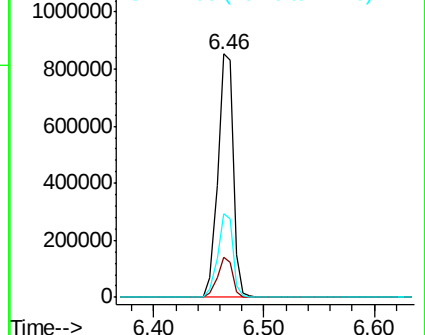
71 34.6 28.4 42.6



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: 5.842 ng

RT: 7.40 min Scan# 903

Delta R.T. 0.12 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

Tgt Ion: 70 Resp: 65317

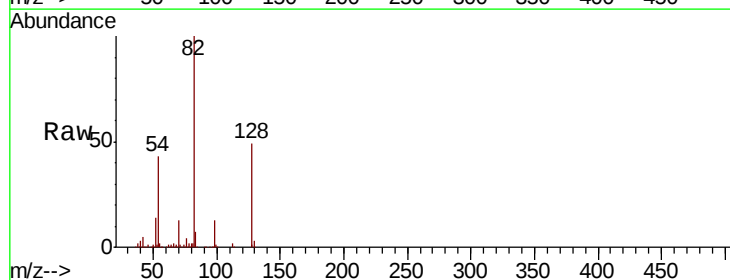
Ion Ratio Lower Upper

70 100

42 41.1 41.6 62.4#

101 0.0 7.9 11.9#

130 2.5 19.0 28.6#

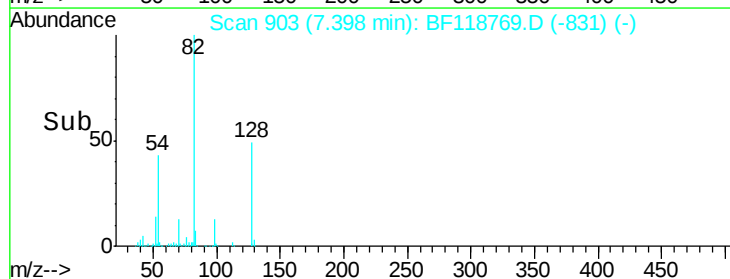
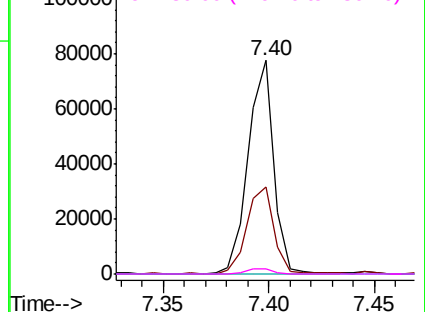


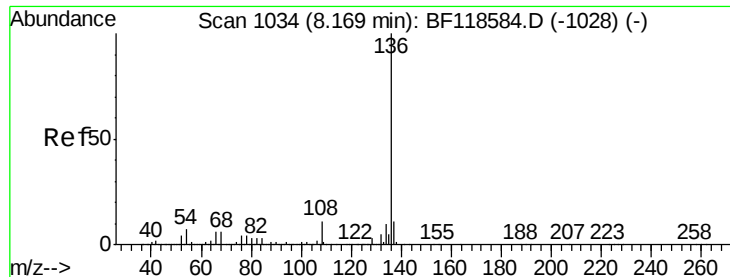
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1026

Delta R.T. -0.02 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

Instrument :

BNA_F

ClientSampled :

Tot Ion:136 Resp: 873221

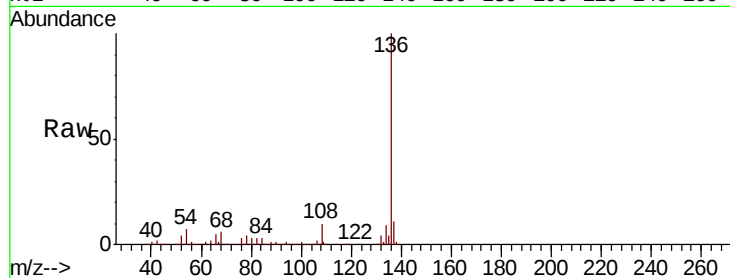
Ion Ratio Lower Upper

136 100

137 11.3 8.9 13.3

54 6.9 5.1 7.7

68 6.2 4.3 6.5

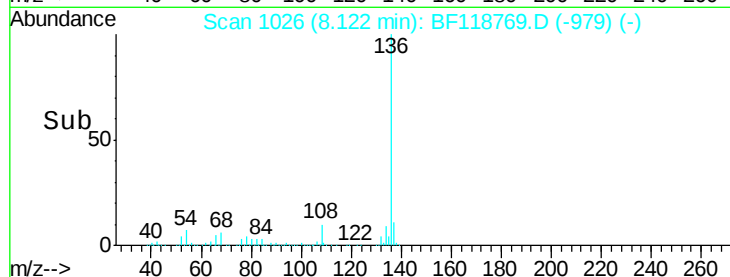


Abundance Ion 136.00 (135.70 to 136.70): E

1500000 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



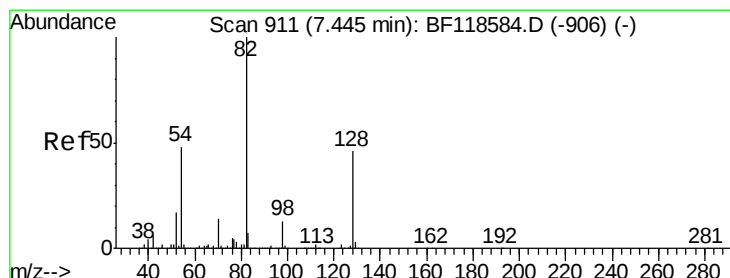
8.12

1000000

500000

0

Time-->



#23

Nitrobenzene-d5

Concen: 32.404 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.02 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

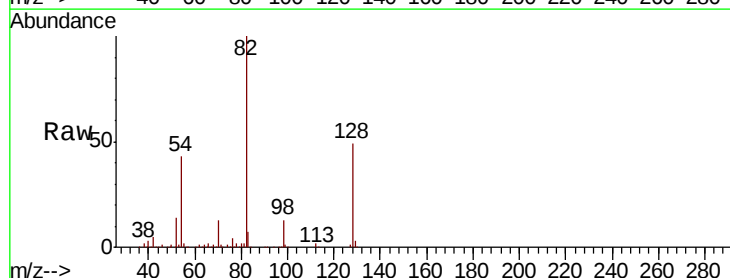
Tgt Ion: 82 Resp: 505874

Ion Ratio Lower Upper

82 100

128 48.5 38.2 57.2

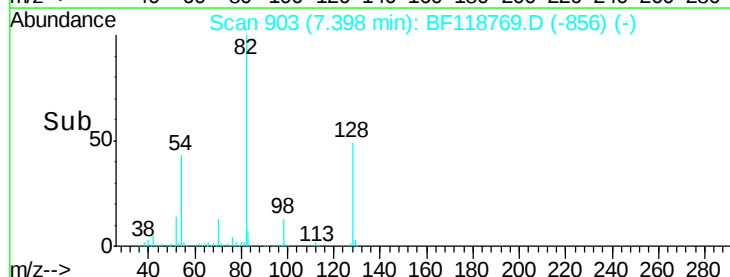
54 42.5 36.1 54.1



Abundance Ion 82.00 (81.70 to 82.70): BF1

800000 Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



7.40

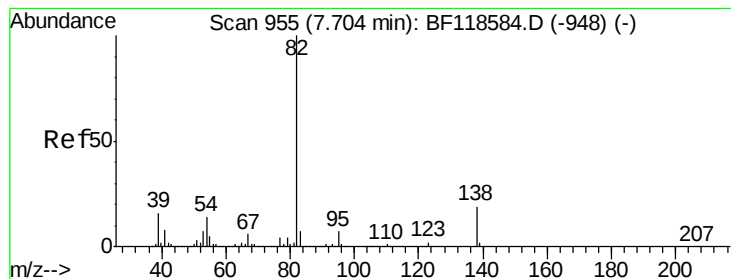
600000

400000

200000

0

Time-->



#25

Isophorone

Concen: 17.765 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.28 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

Instrument :

BNA_F

ClientSampled :

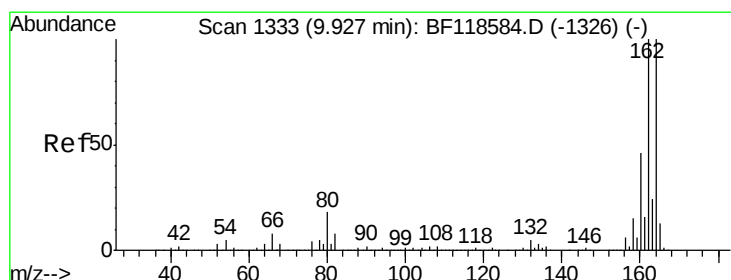
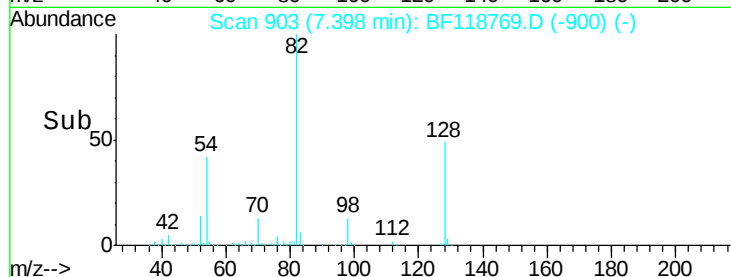
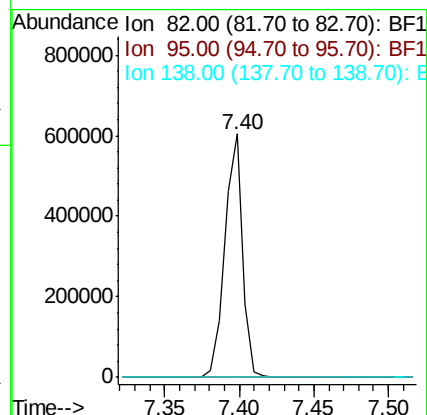
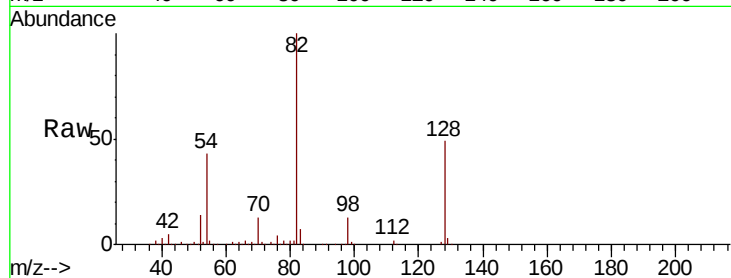
Tot Ion: 82 Resp: 505864

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.8#

138 0.0 15.8 23.8#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.02 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

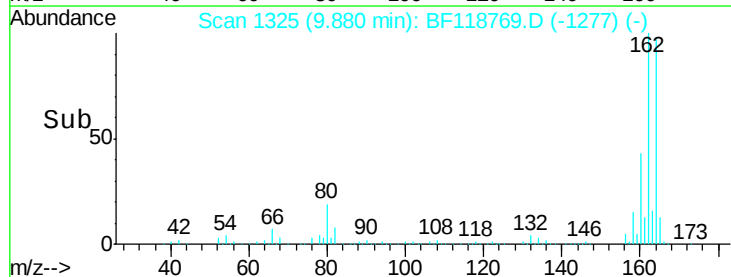
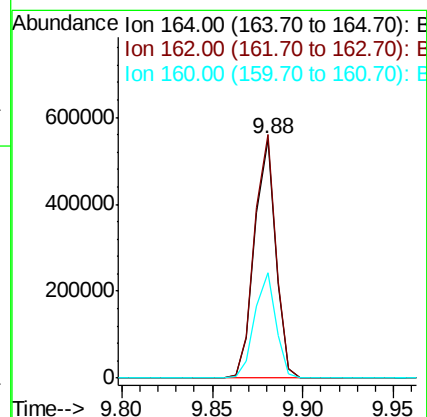
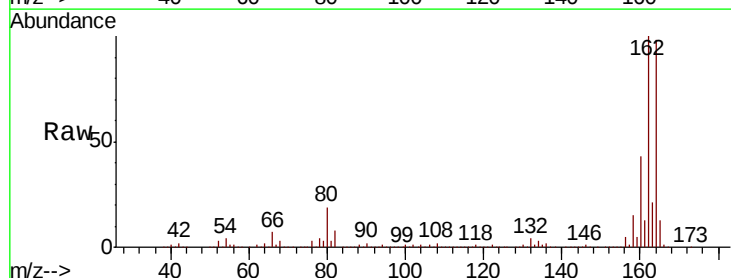
Tgt Ion: 164 Resp: 449476

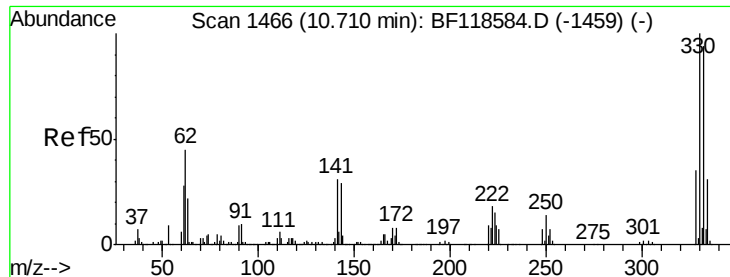
Ion Ratio Lower Upper

164 100

162 102.0 80.8 121.2

160 44.1 35.4 53.0

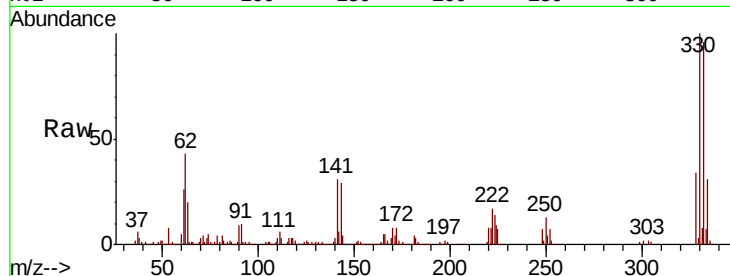




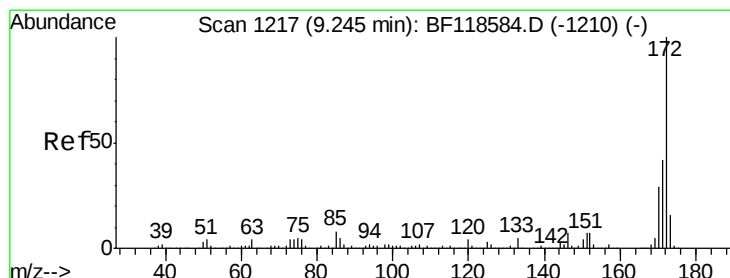
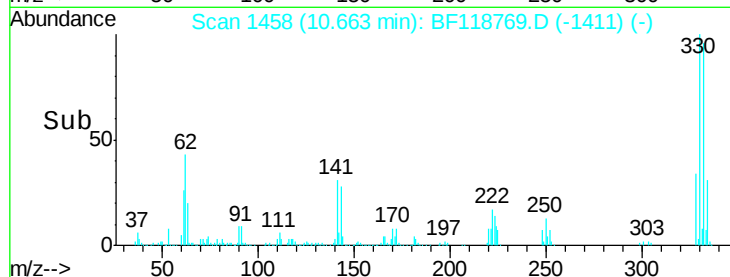
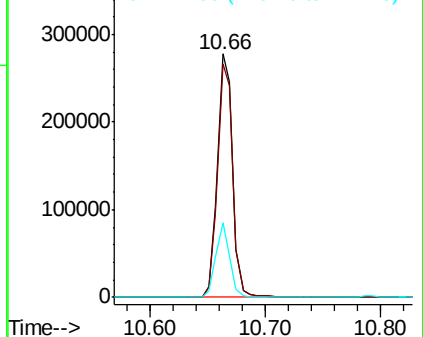
#42
 2,4,6-Tribromophenol
 Concen: 48.538 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. -0.02 min
 Lab File: BF118769.D
 Acq: 30 Jan 2020 23:25

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 252340
 Ion Ratio Lower Upper
 330 100
 332 96.0 77.6 116.4
 141 28.0 22.2 33.2

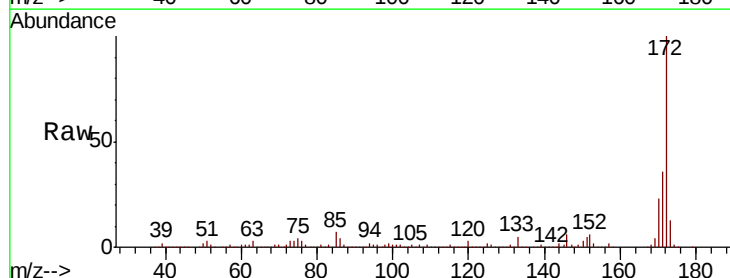


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

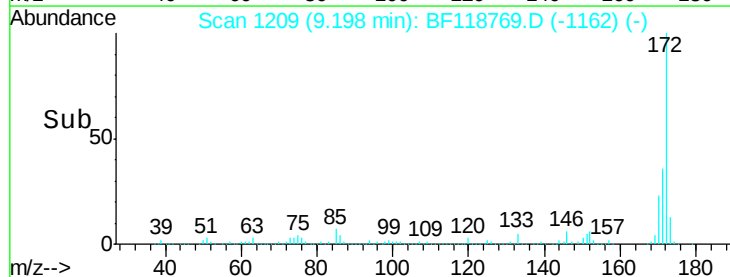
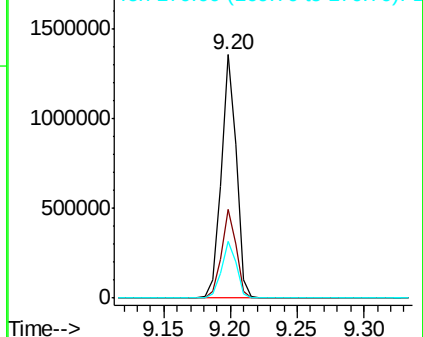


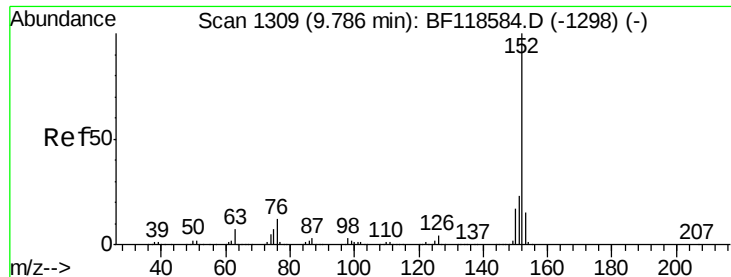
#45
 2-Fluorobiphenyl
 Concen: 39.622 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: BF118769.D
 Acq: 30 Jan 2020 23:25

Tgt Ion:172 Resp: 1083522
 Ion Ratio Lower Upper
 172 100
 171 36.3 31.0 46.4
 170 23.2 20.7 31.1



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





#49

Acenaphthylene

Concen: 5.711 ng

RT: 9.74 min Scan# 1301

Delta R.T. -0.02 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

Instrument :

BNA_F

ClientSampleId :

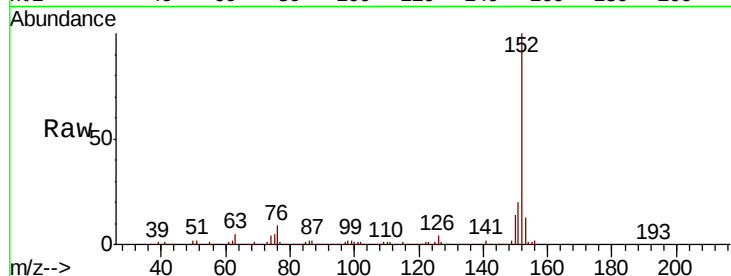
Tot Ion:152 Resp: 209764

Ion Ratio Lower Upper

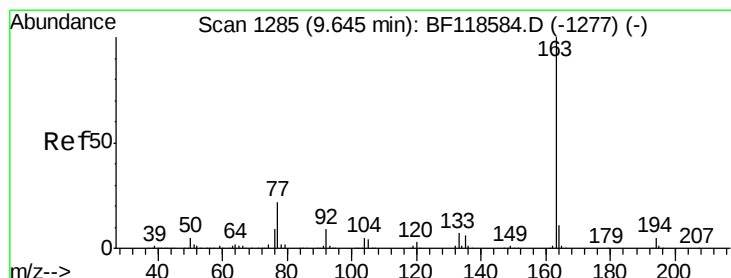
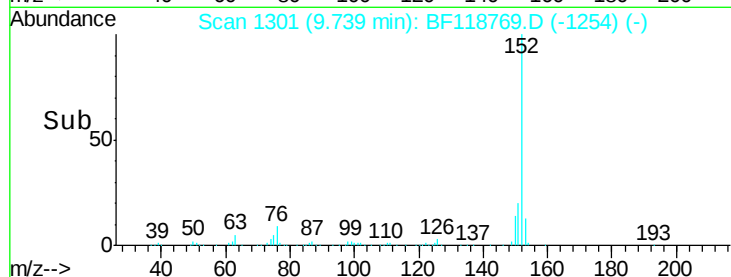
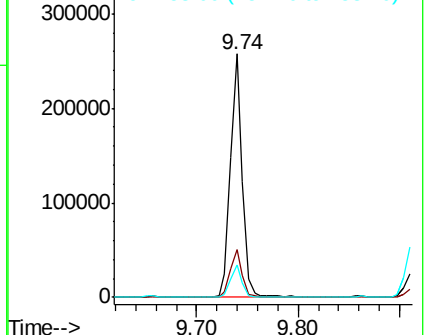
152 100

151 19.8 17.1 25.7

153 13.2 11.0 16.4



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 3.610 ng

RT: 9.59 min Scan# 1276

Delta R.T. -0.03 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

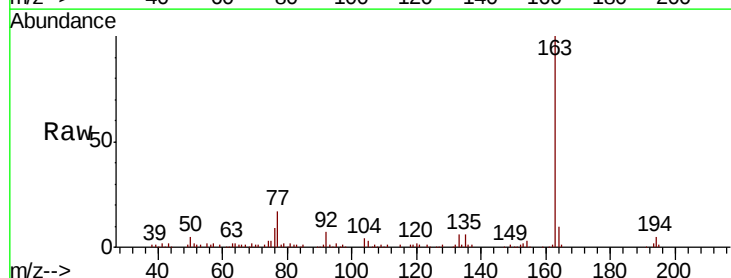
Tgt Ion:163 Resp: 105712

Ion Ratio Lower Upper

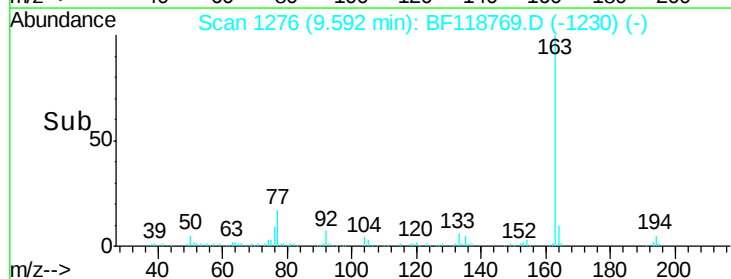
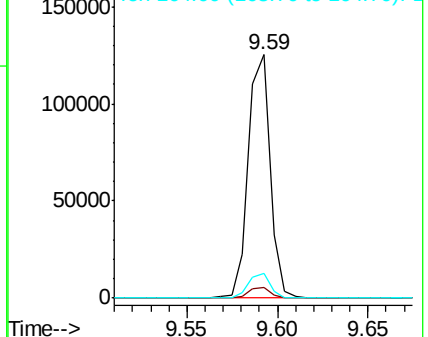
163 100

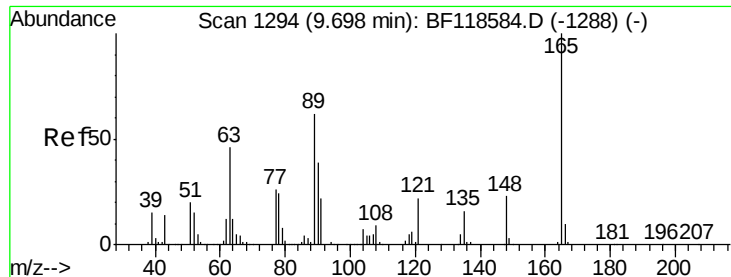
194 4.6 3.7 5.5

164 10.3 8.2 12.2



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

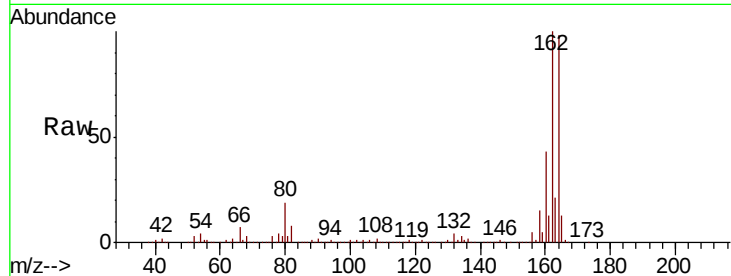




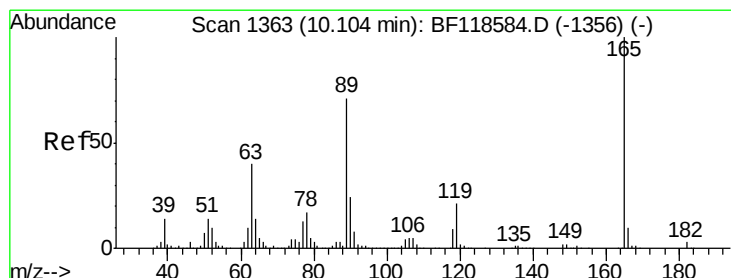
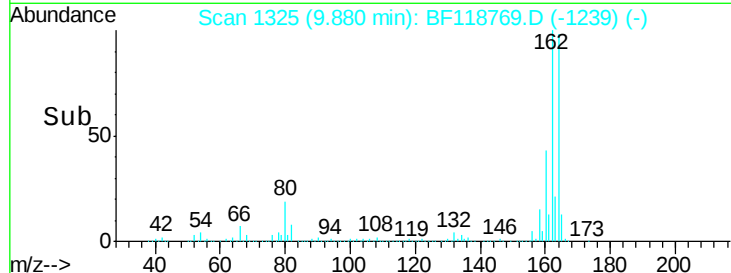
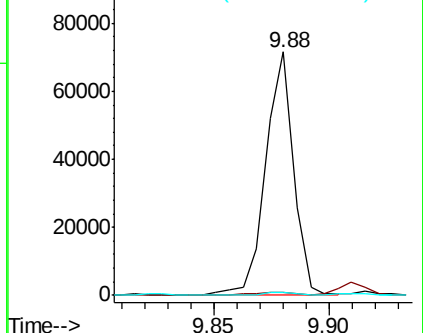
#51
 2,6-Dinitrotoluene
 Concen: 9.209 ng
 RT: 9.88 min Scan# 1325
 Delta R.T. 0.21 min
 Lab File: BF118769.D
 Acq: 30 Jan 2020 23:25

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:165	Resp:	60389
Ion Ratio	Lower	Upper
165	100	
63	1.4	39.8 59.6#
89	1.3	41.4 62.2#

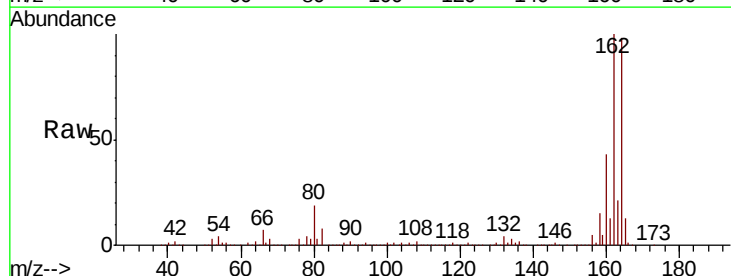


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

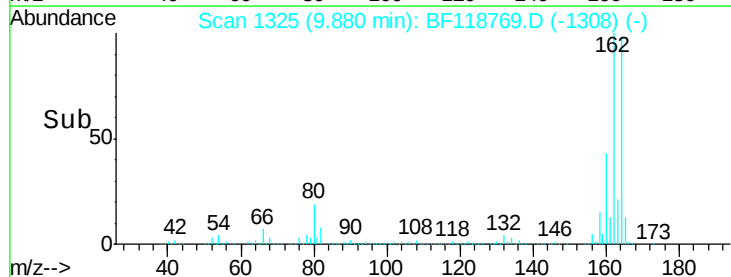
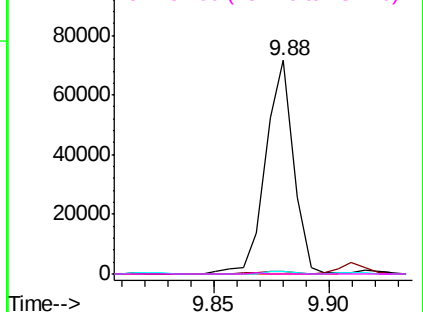


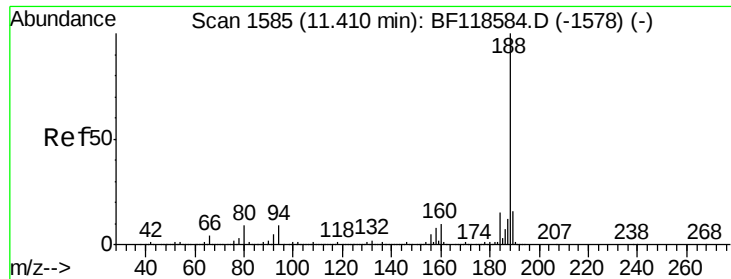
#57
 2,4-Dinitrotoluene
 Concen: 7.305 ng
 RT: 9.88 min Scan# 1325
 Delta R.T. -0.20 min
 Lab File: BF118769.D
 Acq: 30 Jan 2020 23:25

Tgt Ion:165	Resp:	60389
Ion Ratio	Lower	Upper
165	100	
63	1.4	28.5 42.7#
89	1.3	50.4 75.6#
182	0.0	2.3 3.5#



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

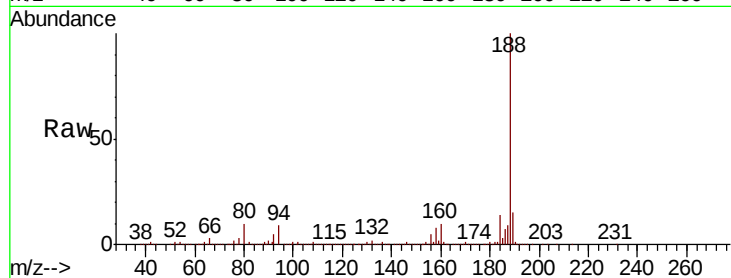




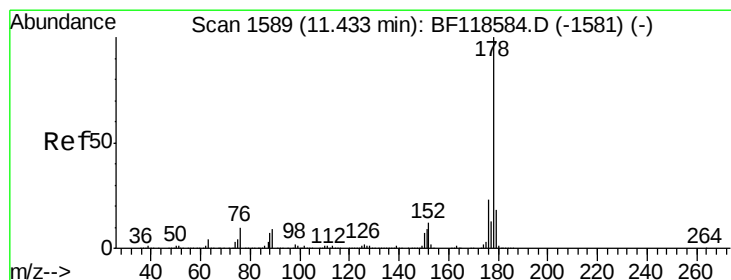
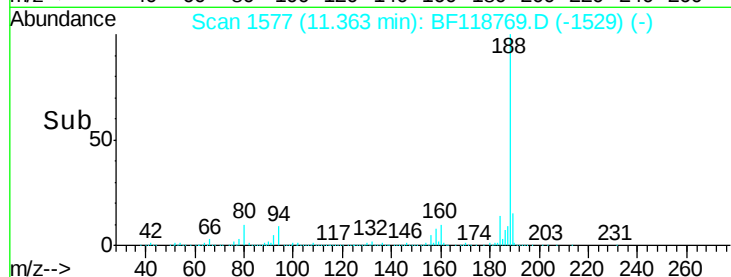
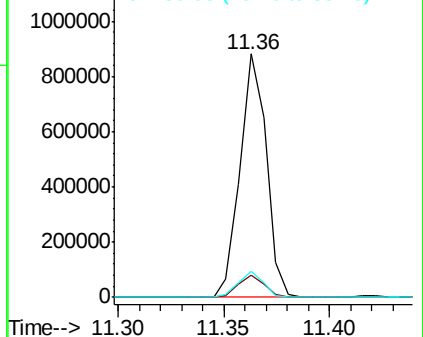
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.02 min
Lab File: BF118769.D
Acq: 30 Jan 2020 23:25

Instrument :
BNA_F
ClientSampled :

Tot Ion:188 Resp: 761921
Ion Ratio Lower Upper
188 100
94 9.3 7.4 11.2
80 10.4 7.8 11.8

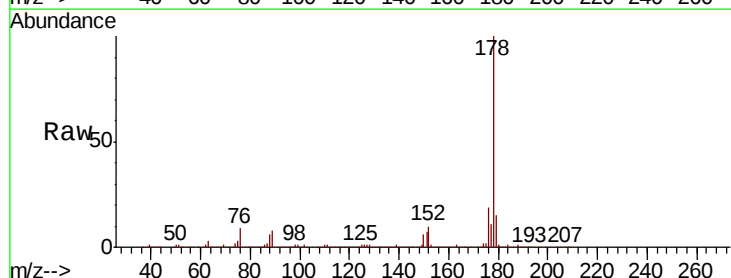


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

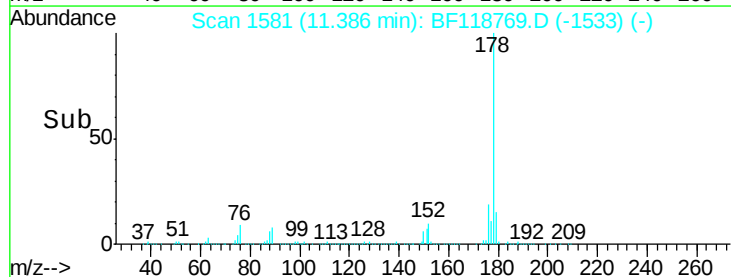
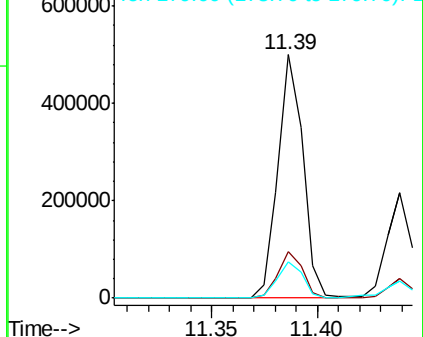


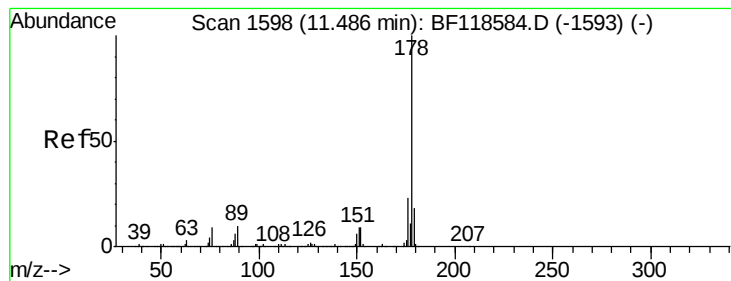
#71
Phenanthrene
Concen: 11.234 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.02 min
Lab File: BF118769.D
Acq: 30 Jan 2020 23:25

Tgt Ion:178 Resp: 412958
Ion Ratio Lower Upper
178 100
176 18.9 16.5 24.7
179 15.1 13.3 19.9



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





#72

Anthracene

Concen: 4.713 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.02 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

Instrument :

BNA_F

ClientSampleId :

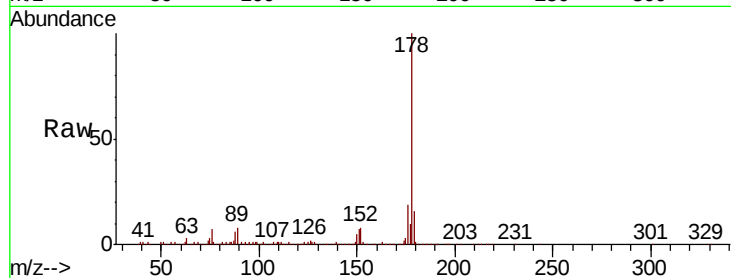
Tot Ion:178 Resp: 171418

Ion Ratio Lower Upper

178 100

176 18.8 15.8 23.8

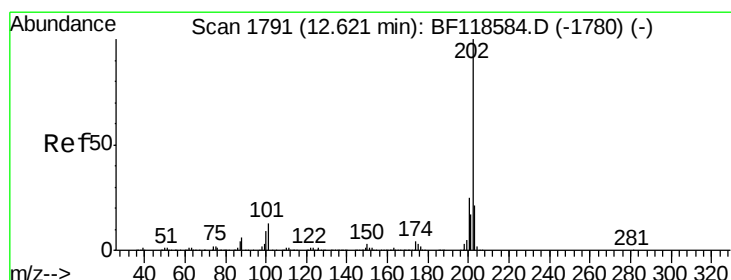
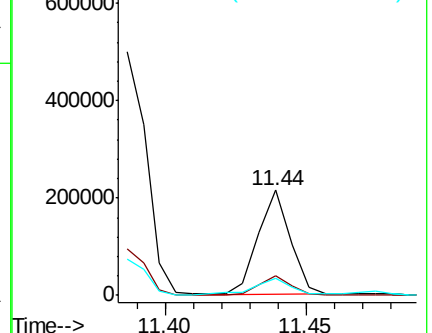
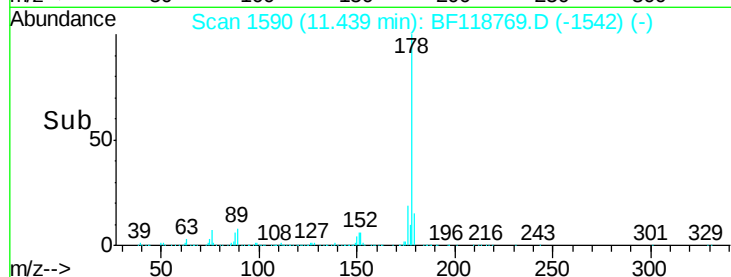
179 15.7 13.3 19.9



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: 19.801 ng

RT: 12.58 min Scan# 1784

Delta R.T. -0.01 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

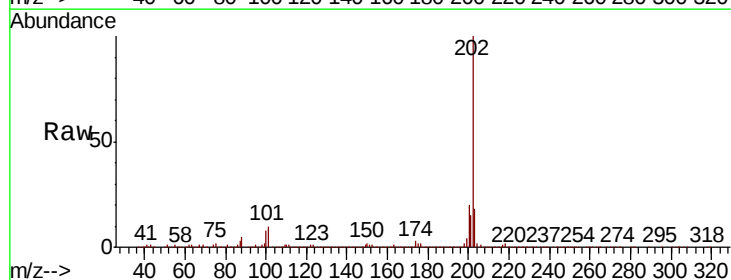
Tgt Ion:202 Resp: 767656

Ion Ratio Lower Upper

202 100

101 9.9 0.0 32.1

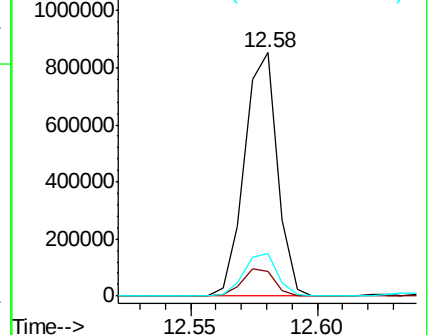
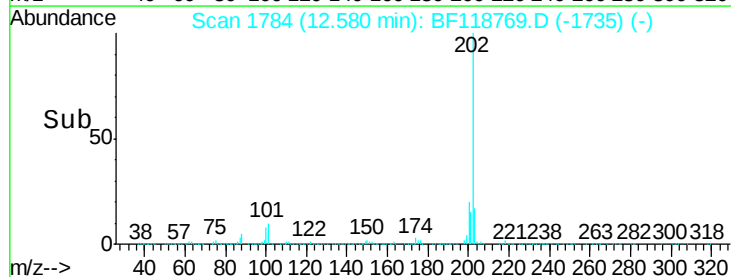
203 17.6 0.0 38.9

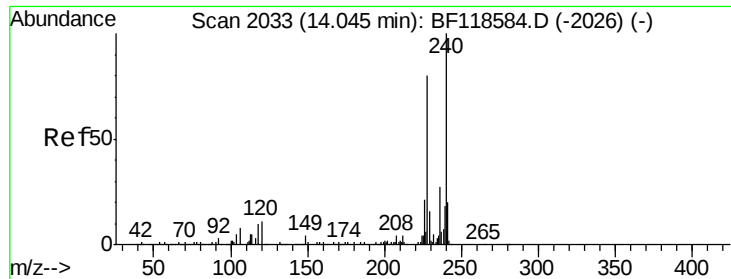


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

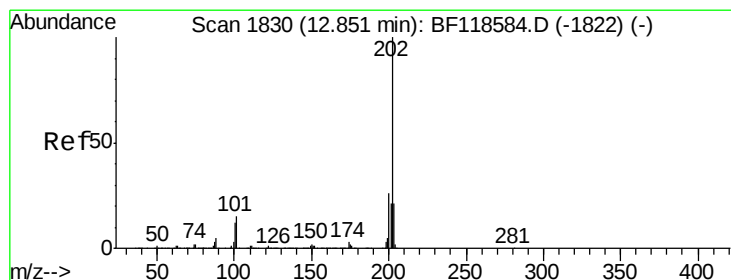
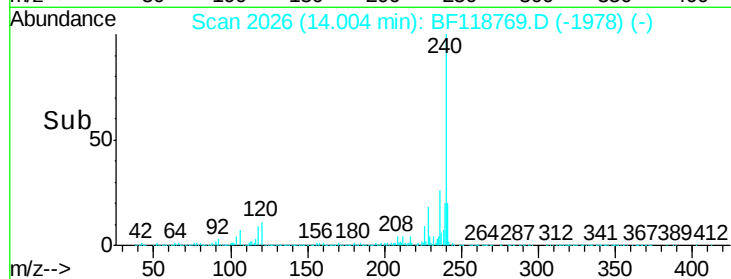
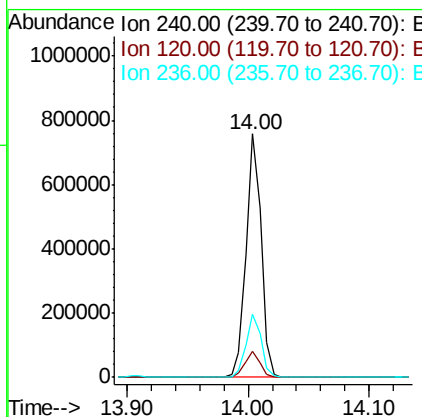
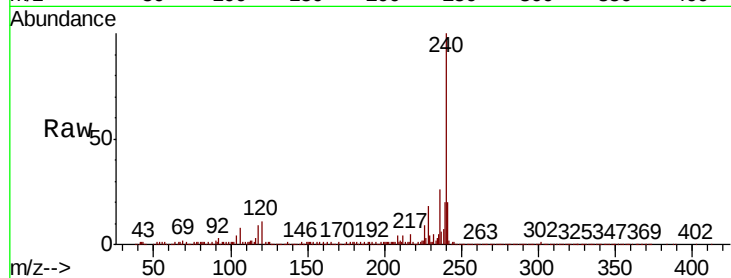




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.02 min
Lab File: BF118769.D
Acq: 30 Jan 2020 23:25

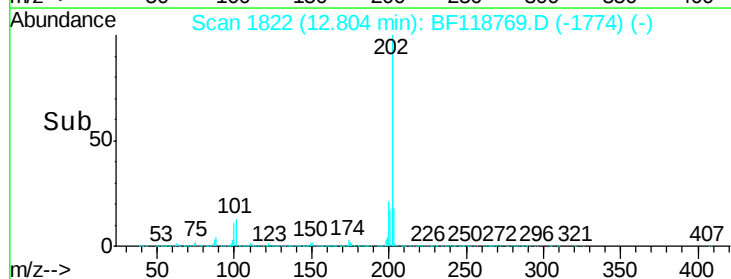
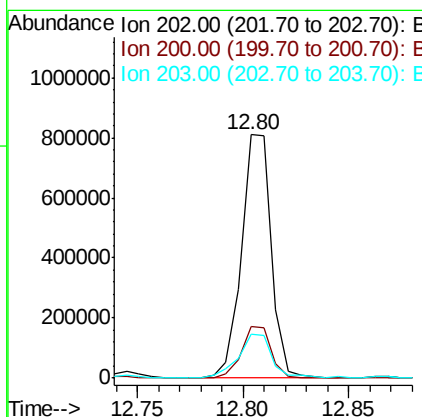
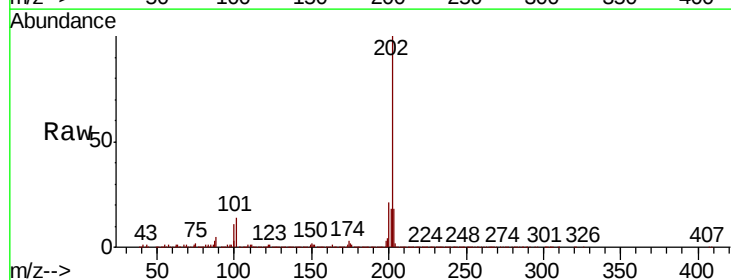
Instrument :
BNA_F
ClientSampleId :

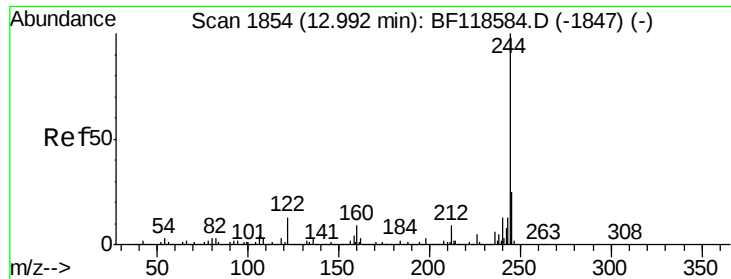
Tot Ion	Ratio	Lower	Upper
240	100		
120	10.7	7.6	11.4
236	25.9	21.0	31.4



#78
Pyrene
Concen: 17.479 ng
RT: 12.80 min Scan# 1822
Delta R.T. -0.02 min
Lab File: BF118769.D
Acq: 30 Jan 2020 23:25

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	18.1	27.1
203	18.2	15.2	22.8

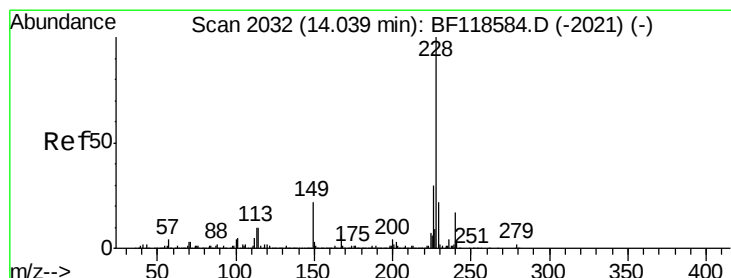
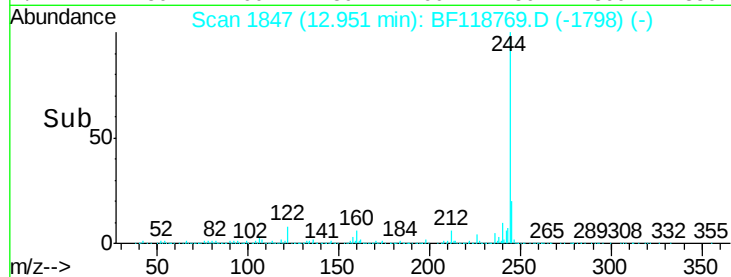
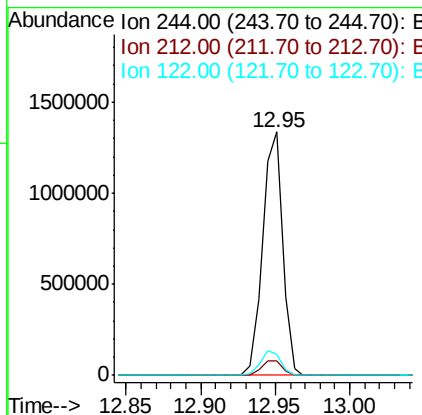
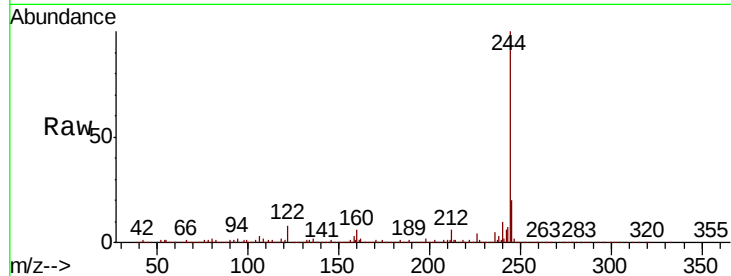




#79
 Terphenyl-d14
 Concen: 40.171 ng
 RT: 12.95 min Scan# 1847
 Delta R.T. -0.01 min
 Lab File: BF118769.D
 Acq: 30 Jan 2020 23:25

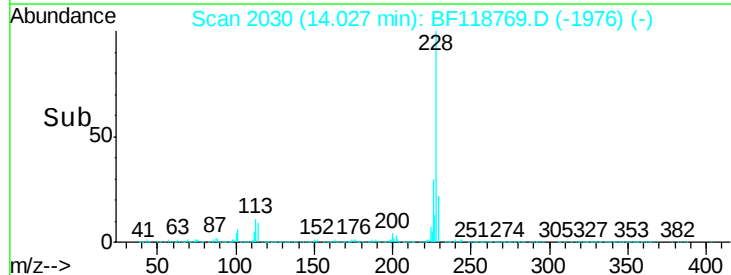
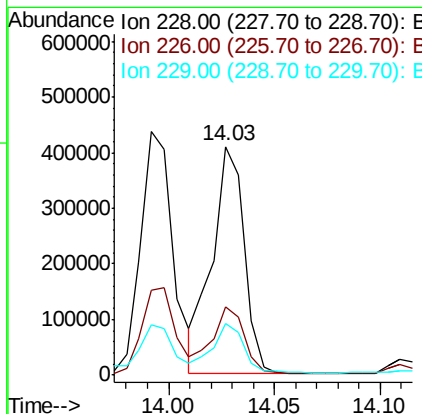
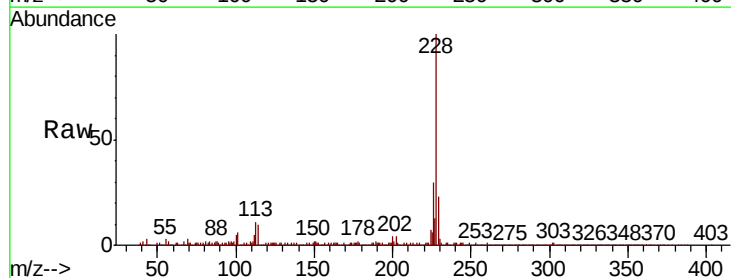
Instrument :
 BNA_F
 ClientSampleId :

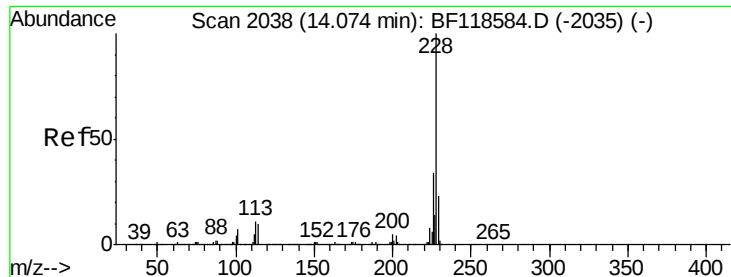
Tot Ion:244 Resp: 1219173
 Ion Ratio Lower Upper
 244 100
 212 6.2 6.3 9.5#
 122 8.5 9.2 13.8#



#81
 Benzo(a)anthracene
 Concen: 10.883 ng
 RT: 14.03 min Scan# 2030
 Delta R.T. 0.02 min
 Lab File: BF118769.D
 Acq: 30 Jan 2020 23:25

Tgt Ion:228 Resp: 433362
 Ion Ratio Lower Upper
 228 100
 226 30.1 22.6 34.0
 229 22.6 16.6 25.0





#83

Chrysene

Concen: 11.355 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.02 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

Instrument :

BNA_F

ClientSampled :

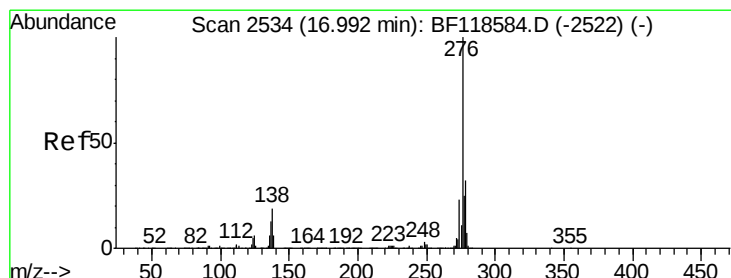
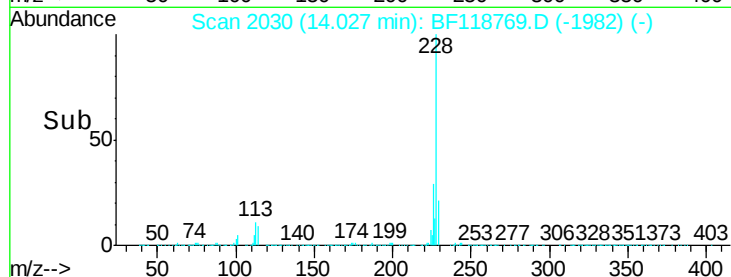
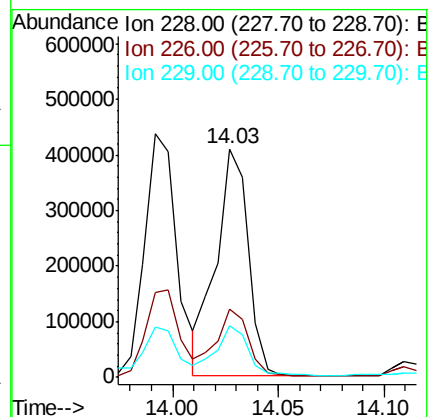
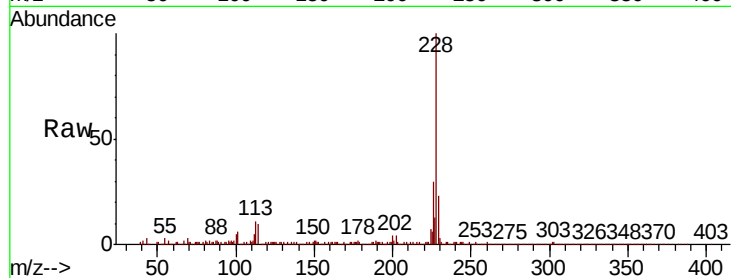
Tot Ion:228 Resp: 433362

Ion Ratio Lower Upper

228 100

226 30.1 25.6 38.4

229 22.6 17.1 25.7



#86

Indeno(1,2,3-cd)pyrene

Concen: 10.246 ng

RT: 16.92 min Scan# 2522

Delta R.T. -0.03 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

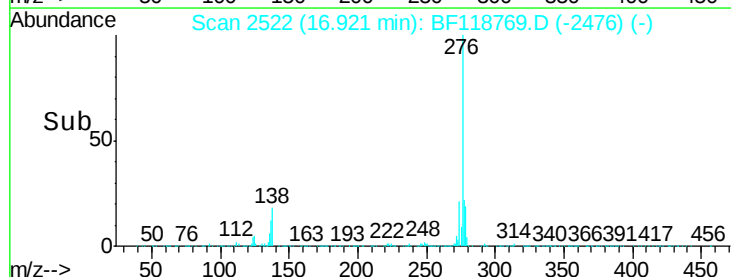
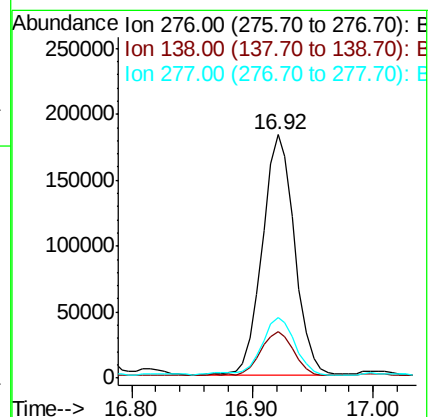
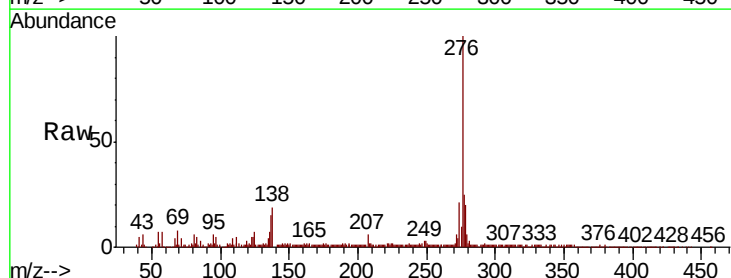
Tgt Ion:276 Resp: 339771

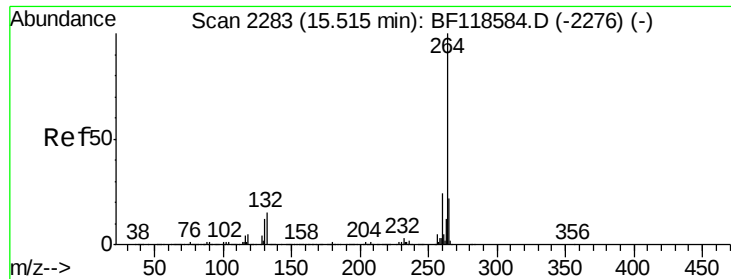
Ion Ratio Lower Upper

276 100

138 18.5 18.2 27.4

277 26.2 20.4 30.6





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.47 min Scan# 2275

Delta R.T. -0.01 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

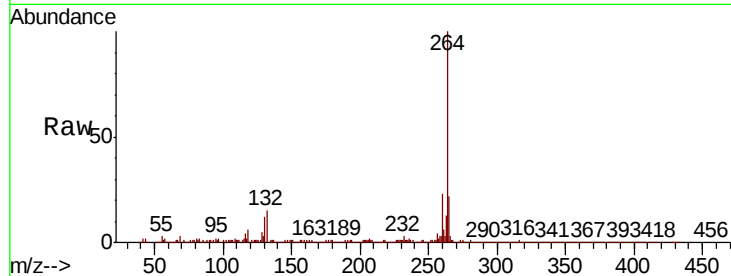
Instrument :

BNA_F

ClientSampleId :

Tot Ion:264 Resp: 742350

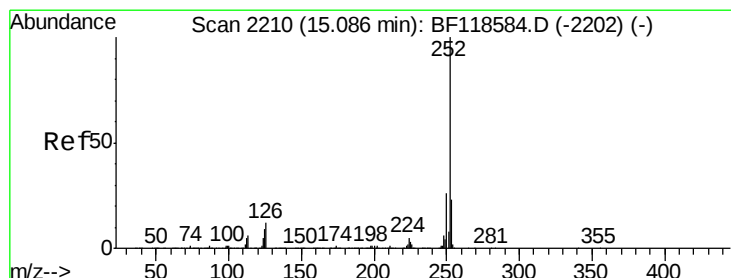
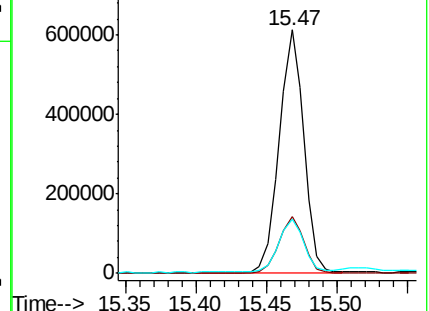
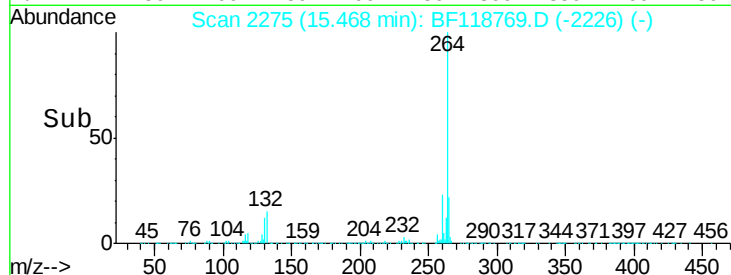
Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	22.1	17.0	25.6



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: 20.944 ng

RT: 15.04 min Scan# 2203

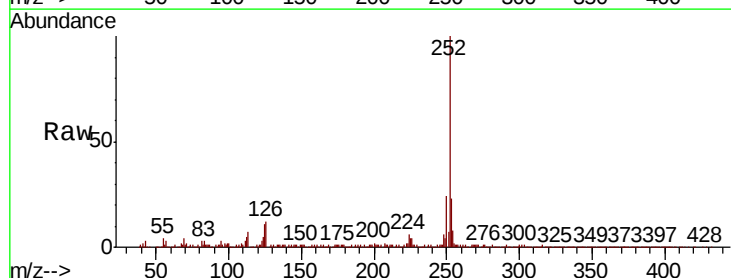
Delta R.T. -0.01 min

Lab File: BF118769.D

Acq: 30 Jan 2020 23:25

Tgt Ion:252 Resp: 977310

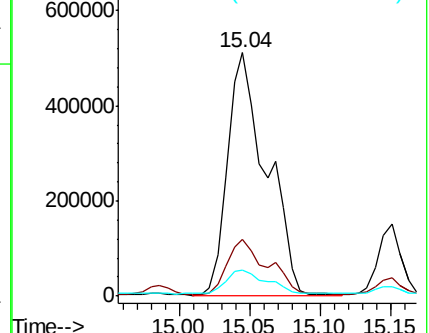
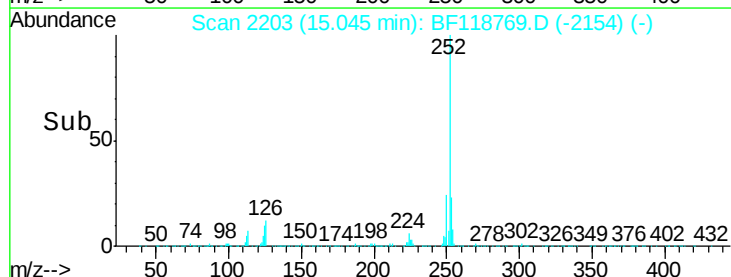
Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.4
125	10.9	7.7	11.5

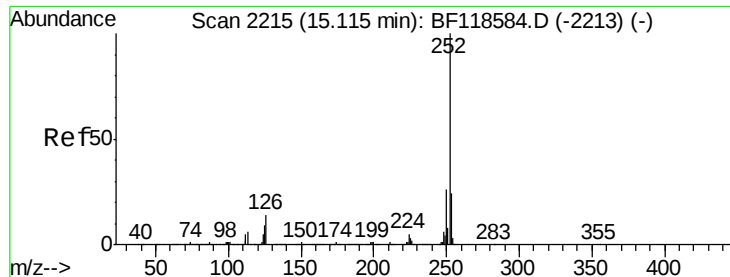


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

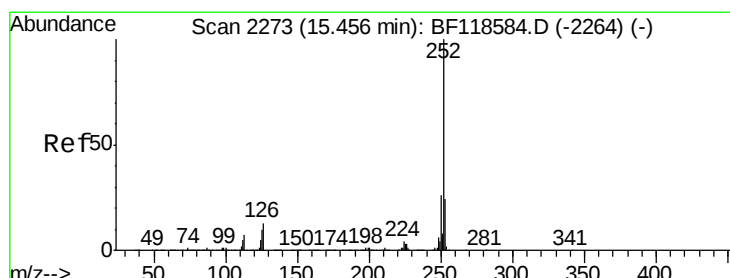
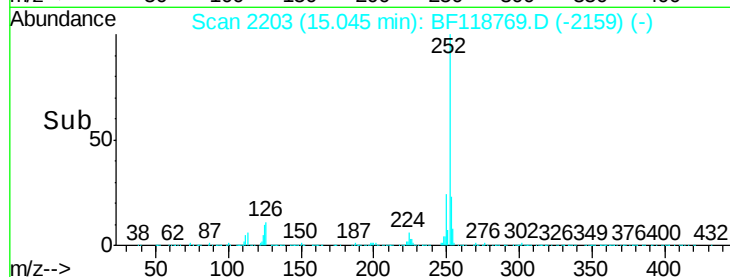
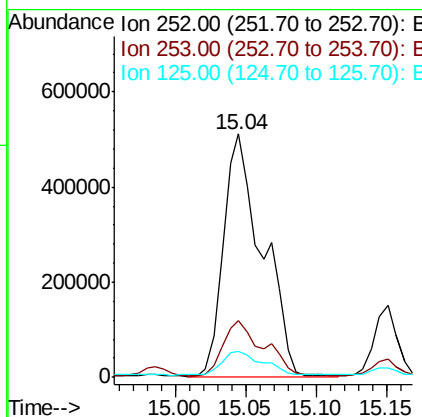
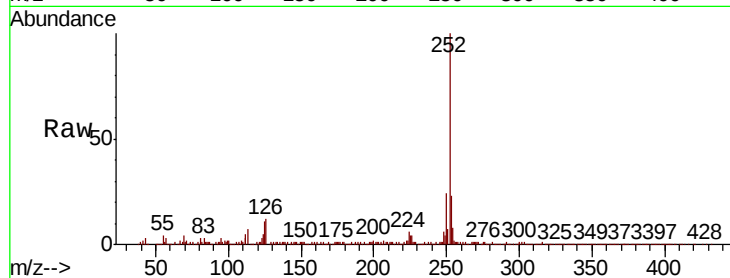




#89
Benzo(k)fluoranthene
Concen: 22.607 ng
RT: 15.04 min Scan# 2203
Delta R.T. -0.04 min
Lab File: BF118769.D
Acq: 30 Jan 2020 23:25

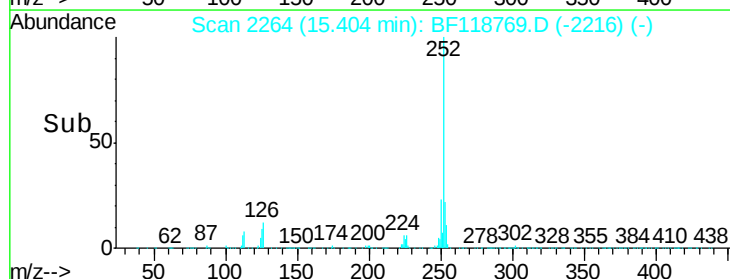
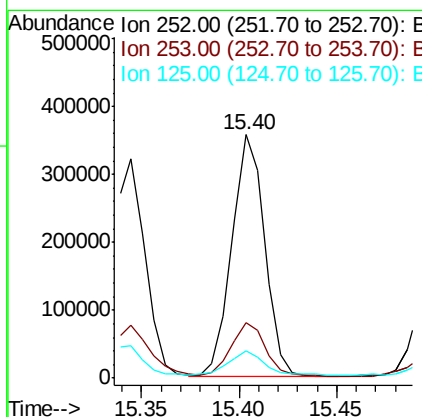
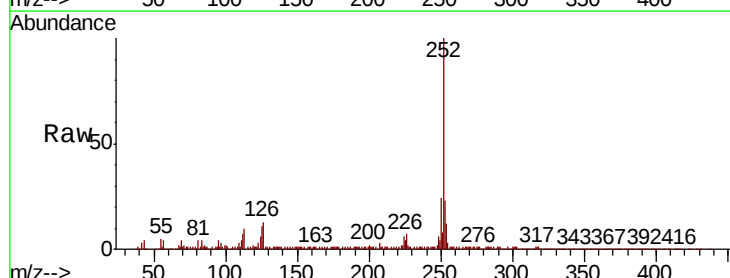
Instrument :
BNA_F
ClientSampleId :

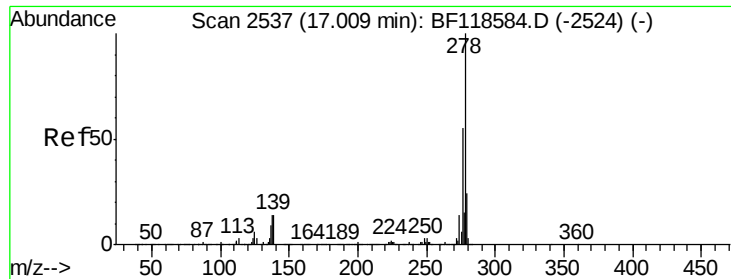
Tot Ion:252 Resp: 977310
Ion Ratio Lower Upper
252 100
253 23.2 18.4 27.6
125 10.9 8.1 12.1



#90
Benzo(a)pyrene
Concen: 10.322 ng
RT: 15.40 min Scan# 2264
Delta R.T. -0.02 min
Lab File: BF118769.D
Acq: 30 Jan 2020 23:25

Tgt Ion:252 Resp: 415494
Ion Ratio Lower Upper
252 100
253 22.8 18.2 27.4
125 11.2 8.3 12.5

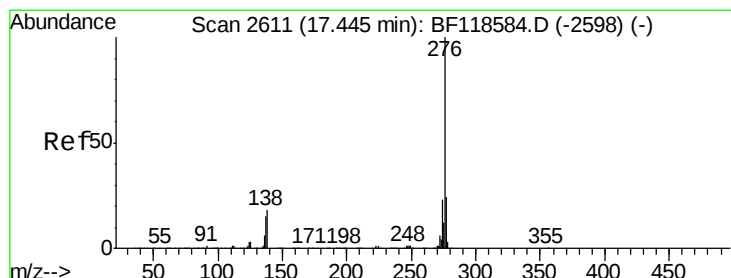
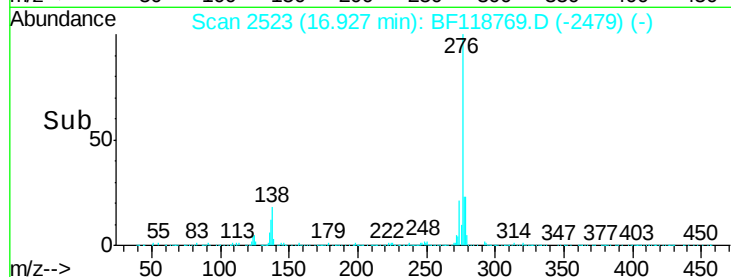
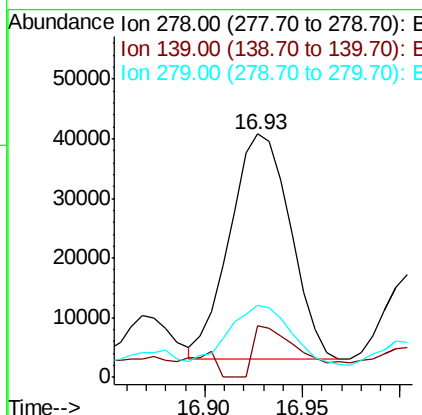
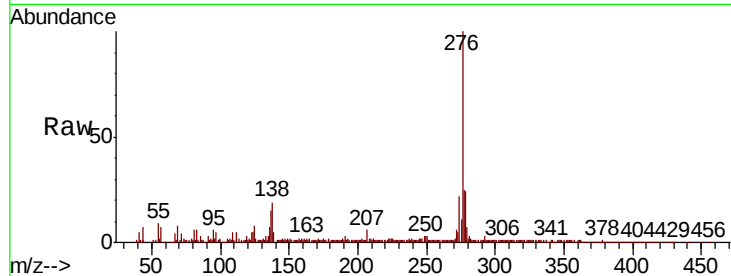




#91
Dibenzo(a,h)anthracene
Concen: 2.270 ng
RT: 16.93 min Scan# 2523
Delta R.T. -0.04 min
Lab File: BF118769.D
Acq: 30 Jan 2020 23:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion:278 Resp: 80829
Ion Ratio Lower Upper
278 100
139 21.3 11.8 17.6#
279 29.8 19.1 28.7#



#92
Benzo(g,h,i)perylene
Concen: 10.271 ng
RT: 17.37 min Scan# 2598
Delta R.T. -0.02 min
Lab File: BF118769.D
Acq: 30 Jan 2020 23:25

Tgt Ion:276 Resp: 355092
Ion Ratio Lower Upper
276 100
277 24.0 19.0 28.6
138 19.5 15.4 23.2

