

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013020\
 Data File : BF118765.D
 Acq On : 30 Jan 2020 21:36
 Operator : CG/JU
 Sample : L1310-03
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 30 23:04:07 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	254764	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	910310	20.00	ng	-0.02
39) Acenaphthene-d10	9.87	164	459899	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	760828	20.00	ng	-0.02
76) Chrysene-d12	14.00	240	666458	20.00	ng	-0.02
87) Perylene-d12	15.46	264	821637	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.46	112	1427043	104.03	ng	-0.02
7) Phenol-d6	6.47	99	1740002	97.59	ng	-0.02
23) Nitrobenzene-d5	7.40	82	1133950	69.68	ng	-0.02
42) 2,4,6-Tribromophenol	10.66	330	526141	98.91	ng	-0.02
45) 2-Fluorobiphenyl	9.20	172	2038169	72.84	ng	-0.02
79) Terphenyl-d14	12.94	244	2115177	69.22	ng	-0.02

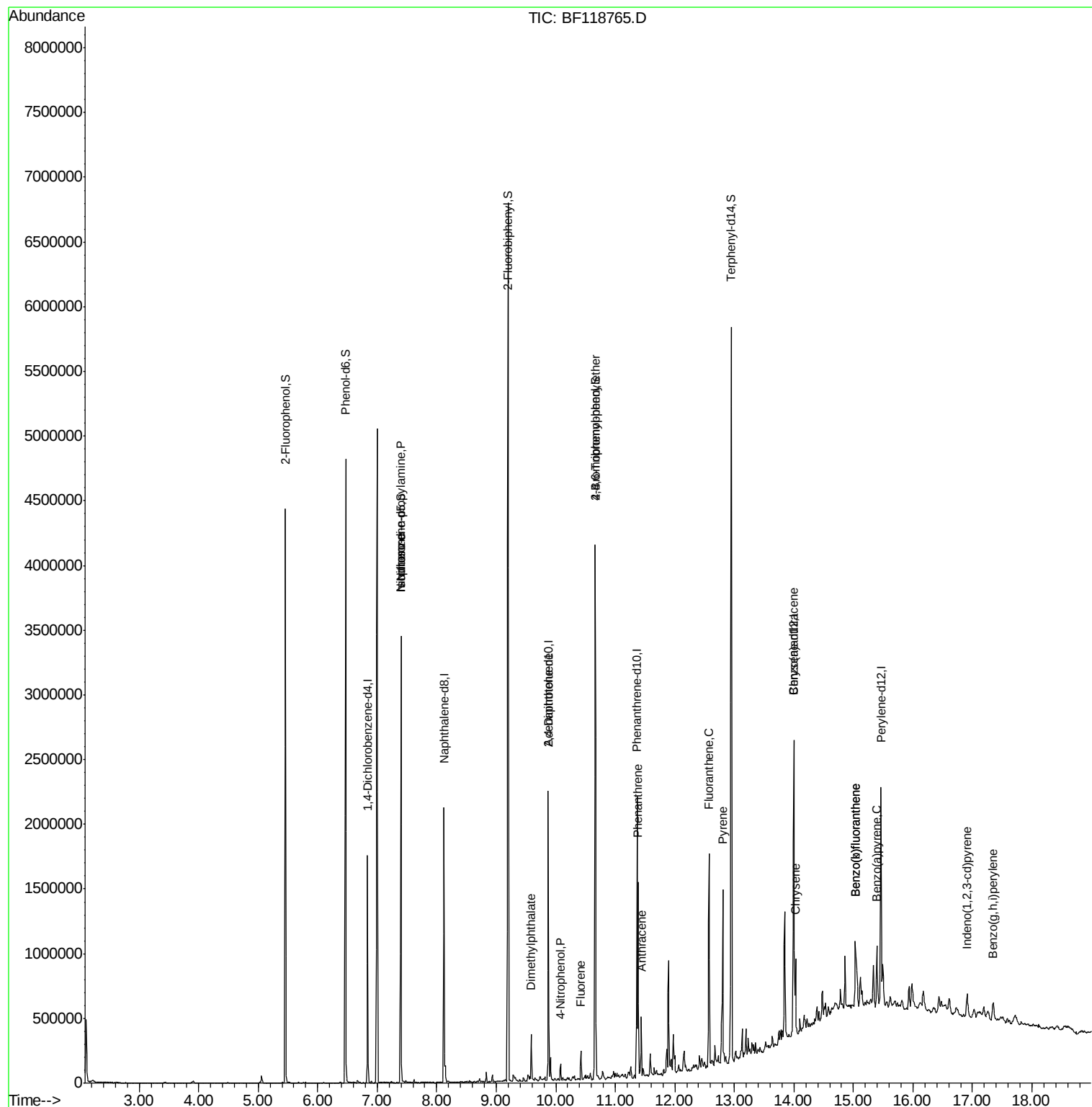
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.40	70	154568	12.839	ng	# 76
25) Isophorone	7.40	82	1131662	38.123	ng	# 63
50) Dimethylphthalate	9.59	163	131355	4.384	ng	99
56) 4-Nitrophenol	10.08	139	12019	2.078	ng	# 16
57) 2,4-Dinitrotoluene	9.87	165	61189	7.234	ng	# 30
58) Fluorene	10.42	166	55676	2.036	ng	98
67) 4-Bromophenyl-phenylether	10.66	248	34447	3.665	ng	# 1
71) Phenanthrene	11.39	178	546361	14.885	ng	97
72) Anthracene	11.43	178	167745	4.619	ng	96
75) Fluoranthene	12.57	202	633228	16.357	ng	97
78) Pyrene	12.80	202	557617	12.324	ng	96
81) Benzo(a)anthracene	13.99	228	299280	7.465	ng	99
83) Chrysene	14.03	228	265196	6.902	ng	97
86) Indeno(1,2,3-cd)pyrene	16.91	276	129374	3.875	ng	97
88) Benzo(b)fluoranthene	15.03	252	422111	8.173	ng	97
89) Benzo(k)fluoranthene	15.03	252	422111	8.822	ng	98
90) Benzo(a)pyrene	15.40	252	241349	5.417	ng	99
92) Benzo(g,h,i)perylene	17.35	276	112877	2.950	ng	97

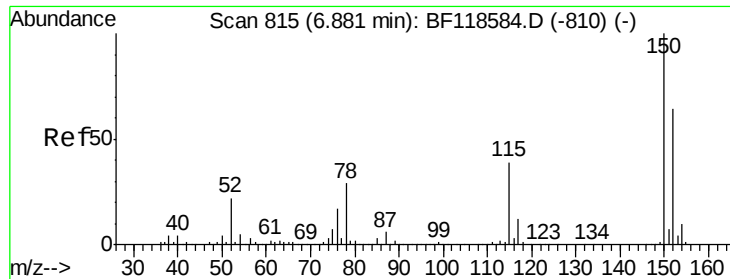
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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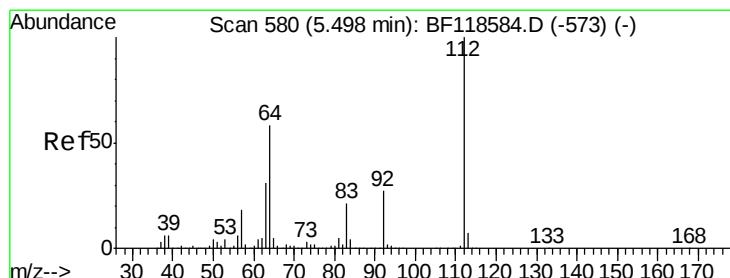
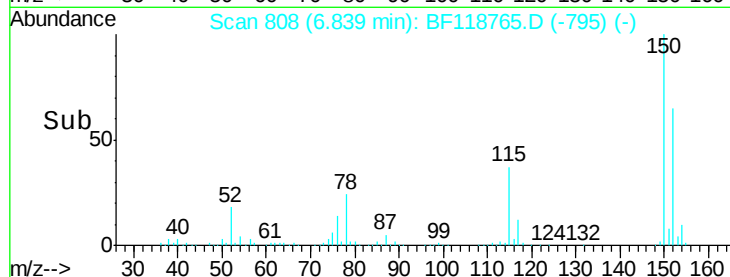
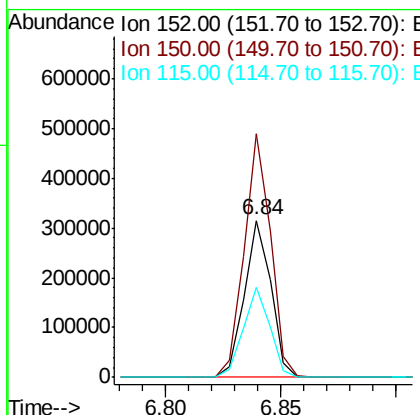
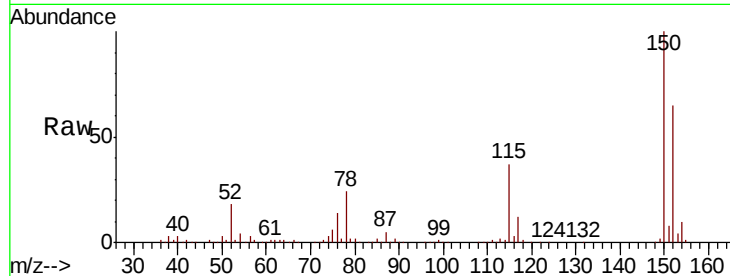




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.84 min Scan# 808
 Delta R.T. -0.02 min
 Lab File: BF118765.D
 Acq: 30 Jan 2020 21:36

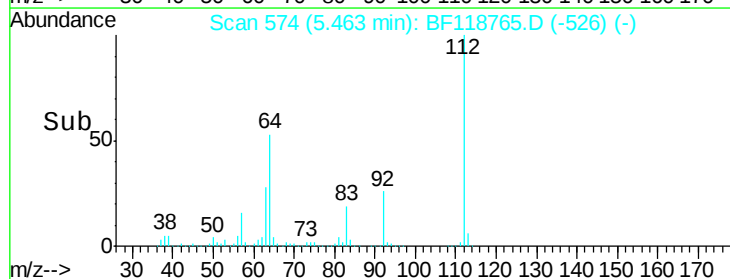
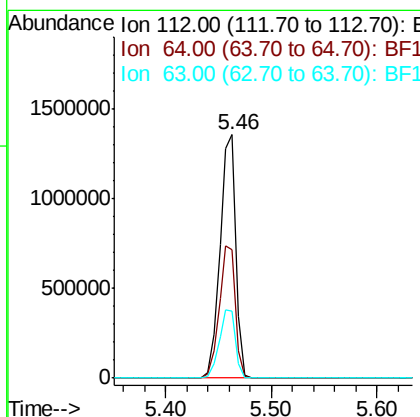
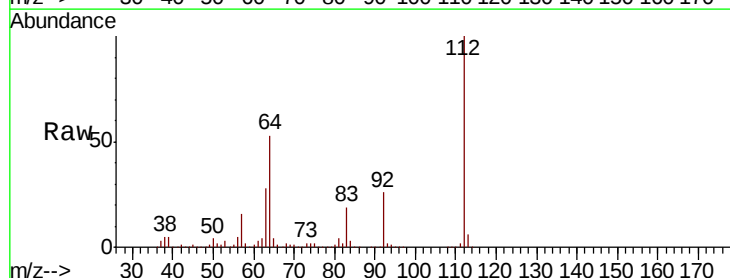
Instrument :
 BNA_F
 ClientSampleId :

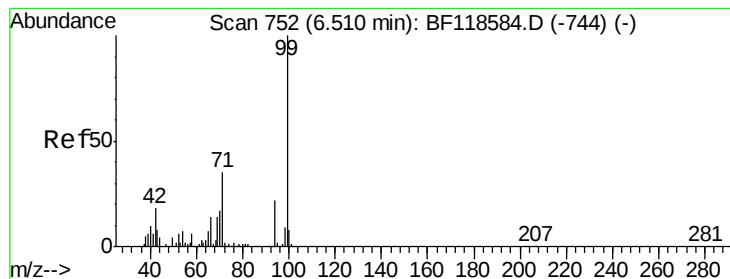
Tot Ion:152 Resp: 254764
 Ion Ratio Lower Upper
 152 100
 150 154.9 123.7 185.5
 115 57.6 45.1 67.7



#5
 2-Fluorophenol
 Concen: 104.033 ng
 RT: 5.46 min Scan# 574
 Delta R.T. -0.02 min
 Lab File: BF118765.D
 Acq: 30 Jan 2020 21:36

Tgt Ion:112 Resp: 1427043
 Ion Ratio Lower Upper
 112 100
 64 52.7 42.4 63.6
 63 27.5 21.7 32.5





#7

Phenol-d6

Concen: 97.594 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.02 min

Lab File: BF118765.D

Acq: 30 Jan 2020 21:36

Instrument :

BNA_F

ClientSampleId :

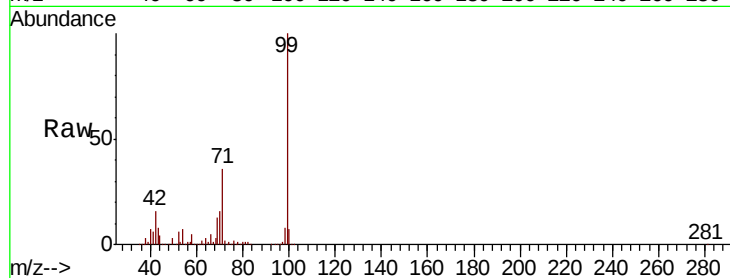
Tot Ion: 99 Resp: 1740002

Ion Ratio Lower Upper

99 100

42 16.5 13.1 19.7

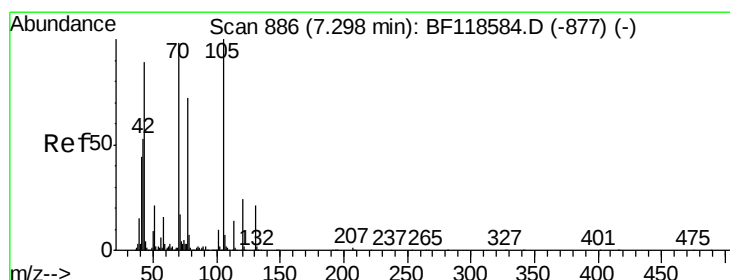
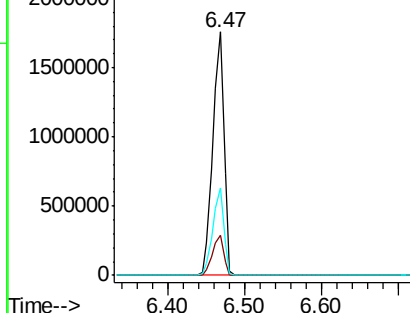
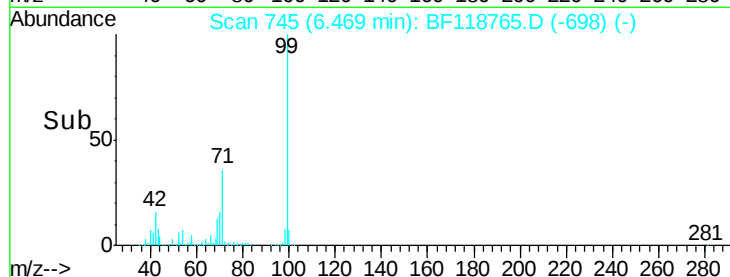
71 35.9 28.4 42.6



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: 12.839 ng

RT: 7.40 min Scan# 903

Delta R.T. 0.12 min

Lab File: BF118765.D

Acq: 30 Jan 2020 21:36

Tgt Ion: 70 Resp: 154568

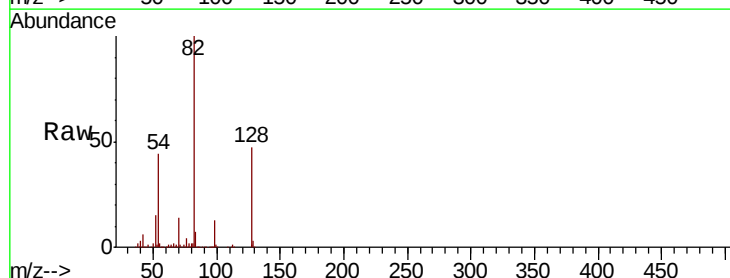
Ion Ratio Lower Upper

70 100

42 42.3 41.6 62.4

101 0.0 7.9 11.9#

130 2.0 19.0 28.6#

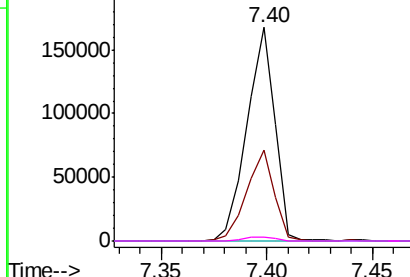
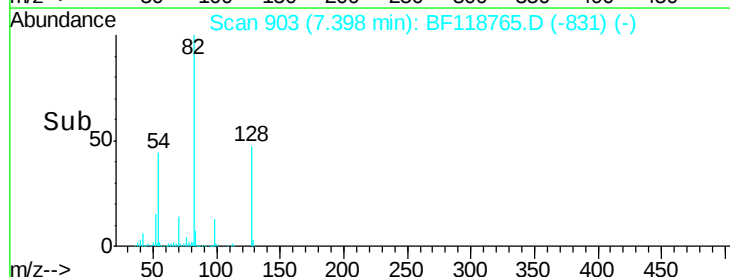


Abundance Ion 70.00 (69.70 to 70.70): BF1

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

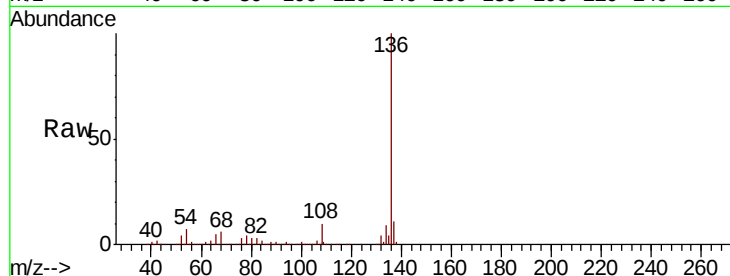




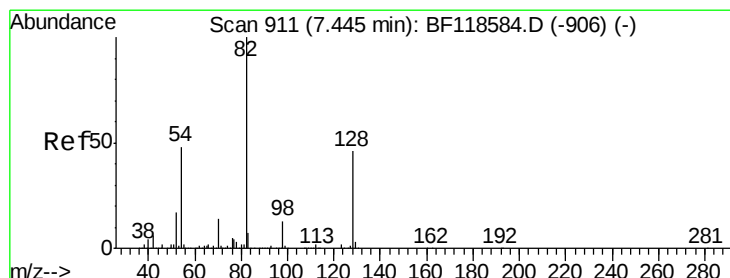
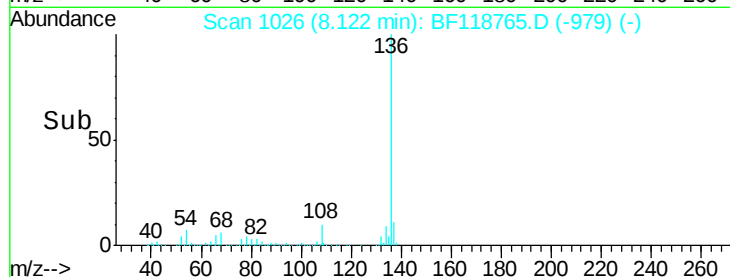
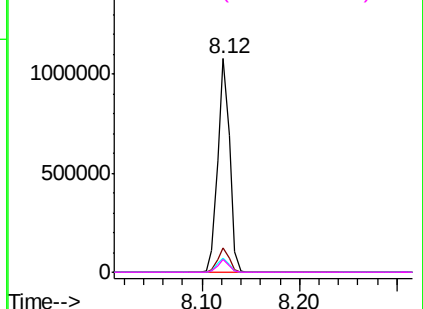
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.12 min Scan# 1026
Delta R.T. -0.02 min
Lab File: BF118765.D
Acq: 30 Jan 2020 21:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	910310
Ion Ratio	Lower	Upper
136 100		
137 11.1	8.9	13.3
54 6.6	5.1	7.7
68 5.9	4.3	6.5

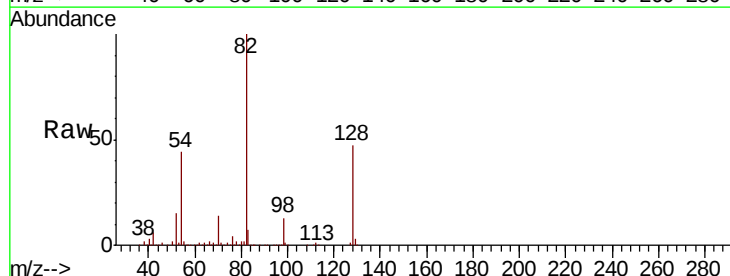


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

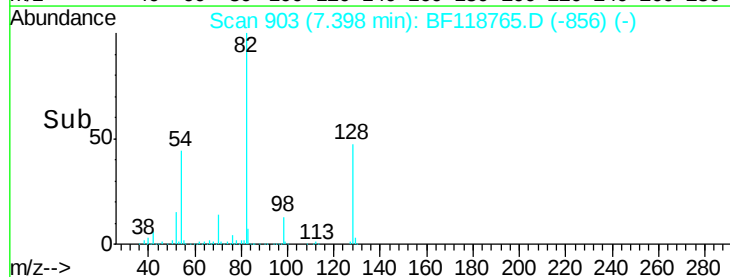
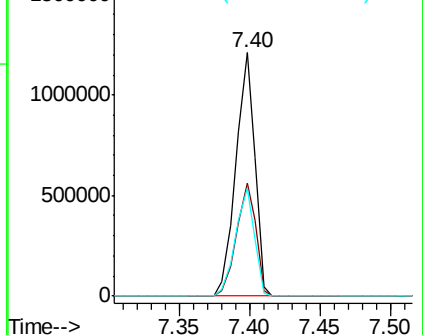


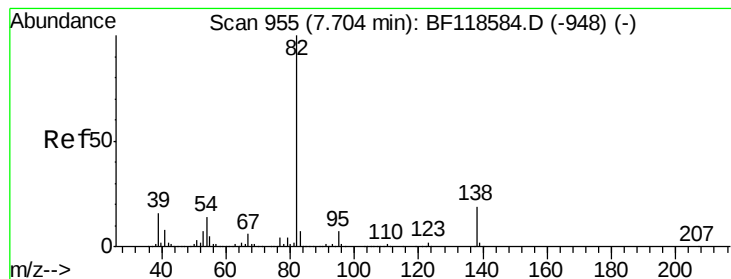
#23
Nitrobenzene-d5
Concen: 69.676 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.02 min
Lab File: BF118765.D
Acq: 30 Jan 2020 21:36

Tgt Ion: 82	Resp: 1133950
Ion Ratio	Lower Upper
82 100	
128 46.6	38.2 57.2
54 44.2	36.1 54.1



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: 38.123 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.28 min

Lab File: BF118765.D

Acq: 30 Jan 2020 21:36

Instrument :

BNA_F

ClientSampleId :

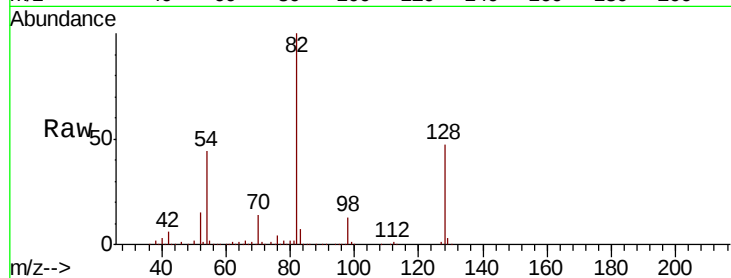
Tot Ion: 82 Resp: 1131662

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.8#

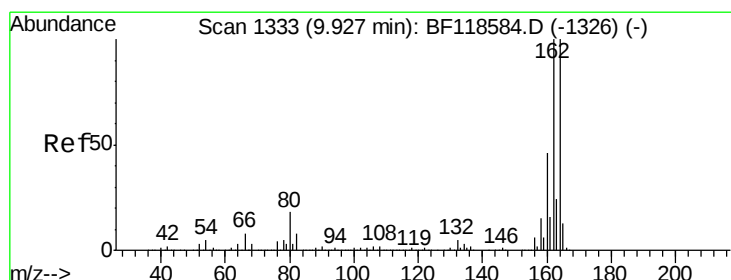
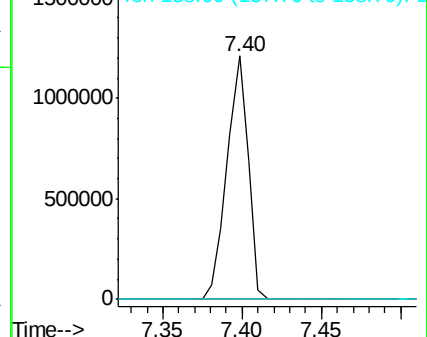
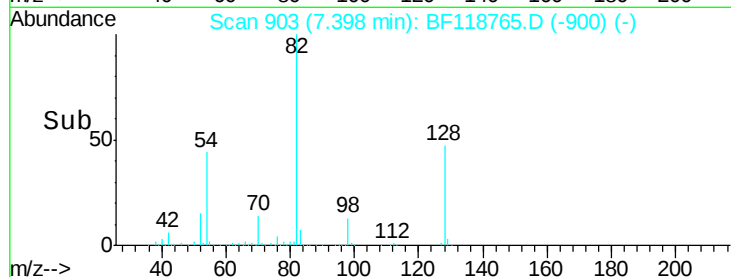
138 0.0 15.8 23.8#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.02 min

Lab File: BF118765.D

Acq: 30 Jan 2020 21:36

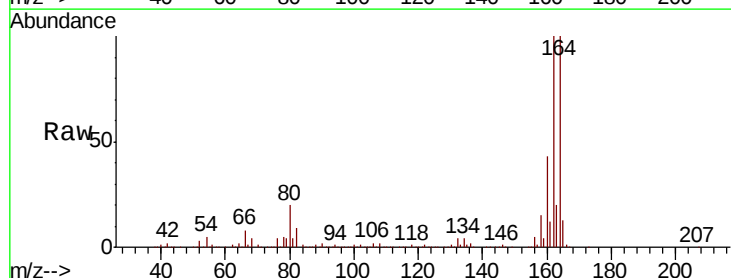
Tgt Ion: 164 Resp: 459899

Ion Ratio Lower Upper

164 100

162 100.3 80.8 121.2

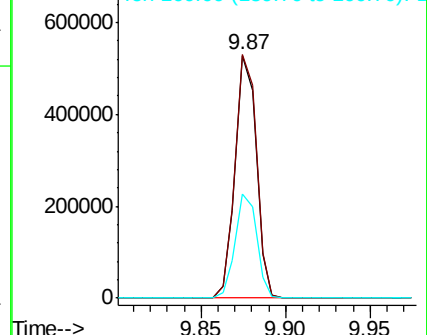
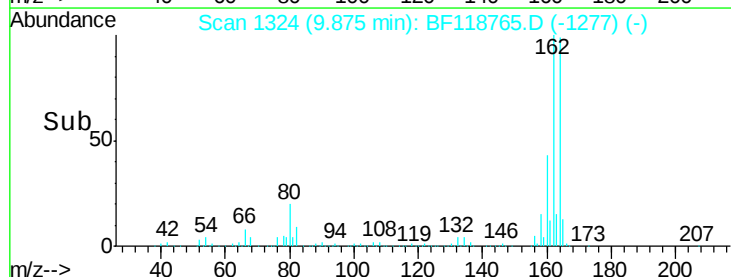
160 42.9 35.4 53.0

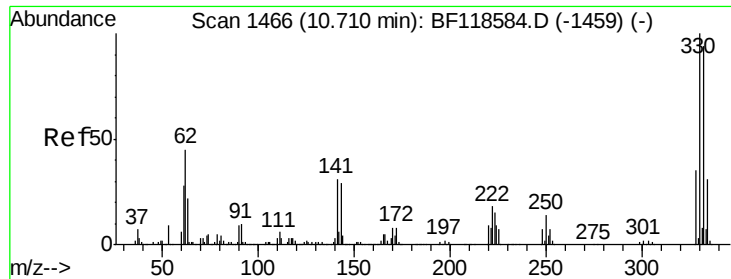


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

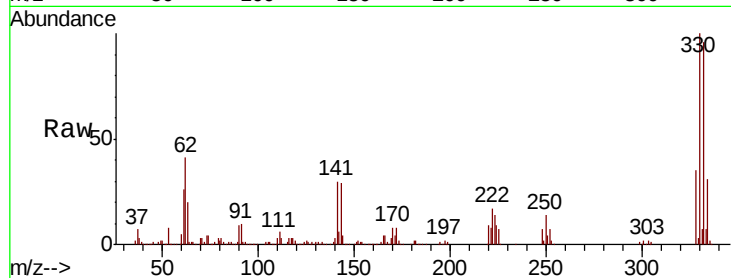




#42
 2,4,6-Tribromophenol
 Concen: 98.911 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. -0.02 min
 Lab File: BF118765.D
 Acq: 30 Jan 2020 21:36

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.6	116.4
141	28.1	22.2	33.2

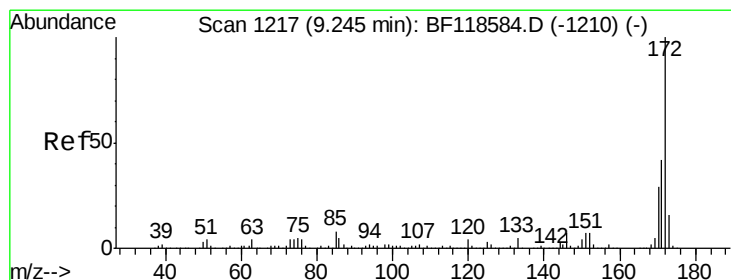
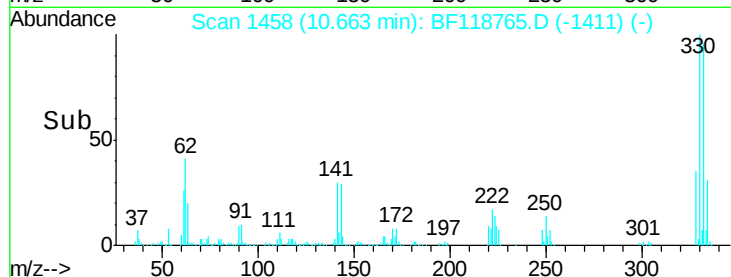
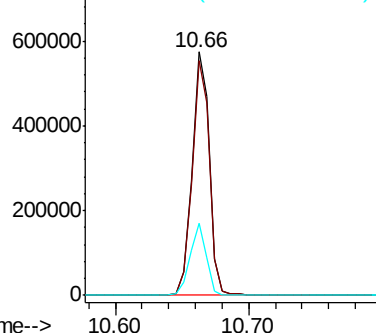


Abundance

Ion 329.80 (329.50 to 330.50): E

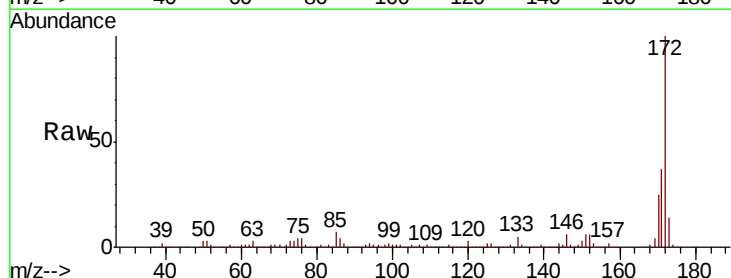
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 72.841 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: BF118765.D
 Acq: 30 Jan 2020 21:36

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.9	31.0	46.4
170	24.5	20.7	31.1

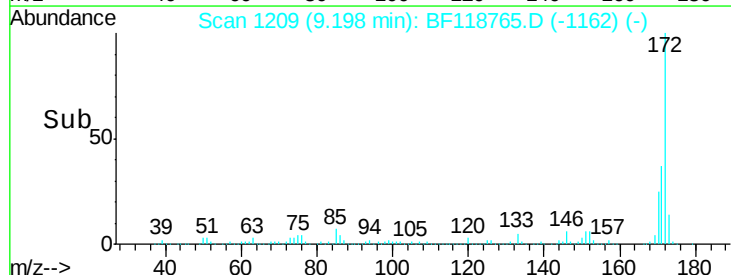
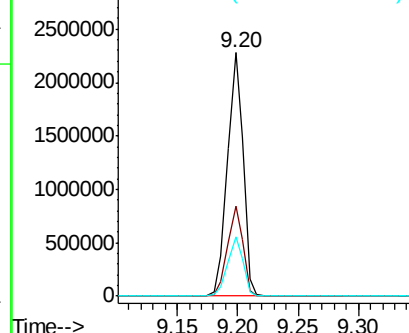


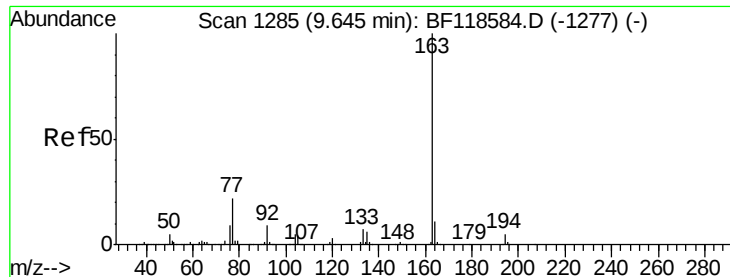
Abundance

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

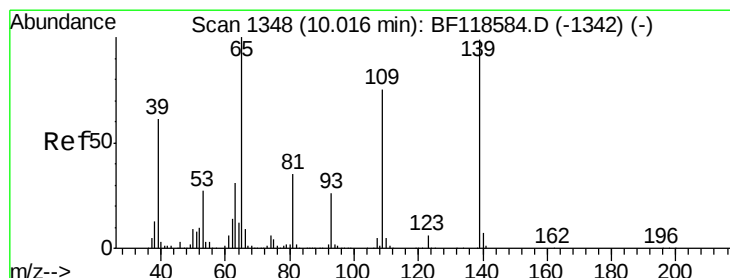
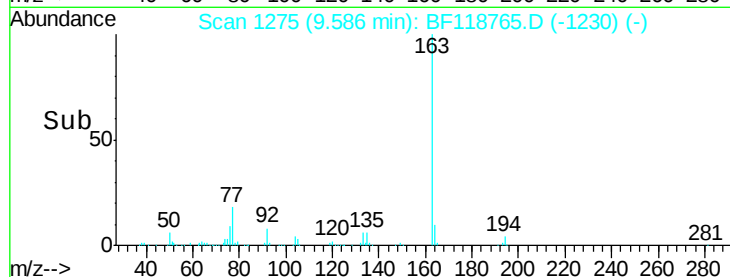
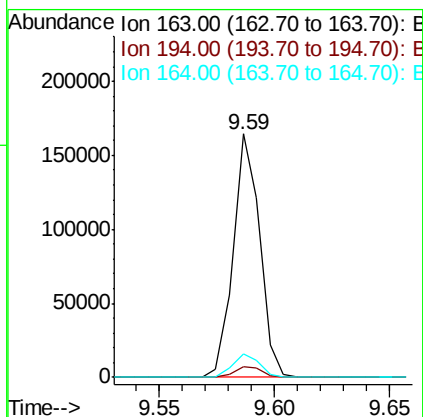
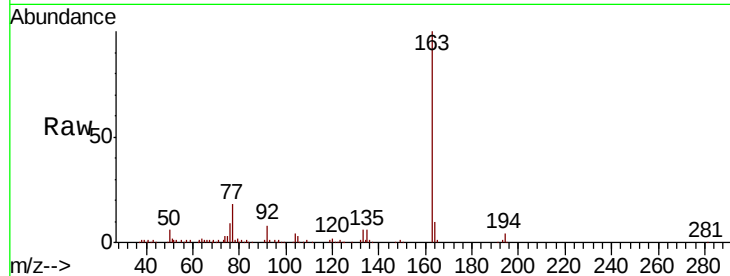




#50
 Dimethylphthalate
 Concen: 4.384 ng
 RT: 9.59 min Scan# 1275
 Delta R.T. -0.04 min
 Lab File: BF118765.D
 Acq: 30 Jan 2020 21:36

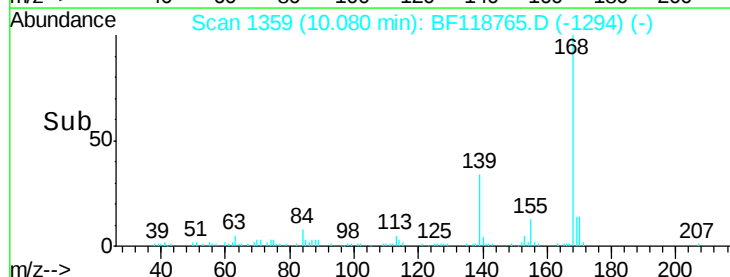
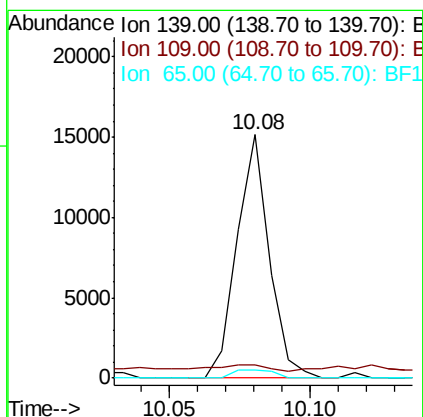
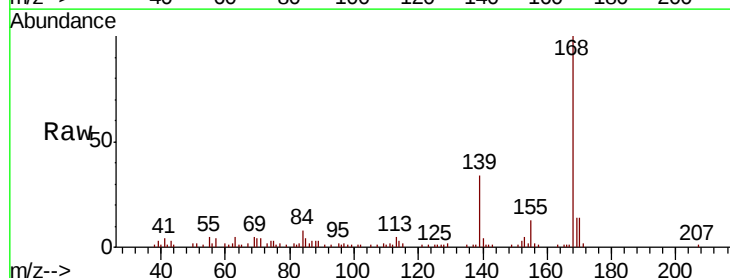
Instrument :
 BNA_F
 ClientSampleId :

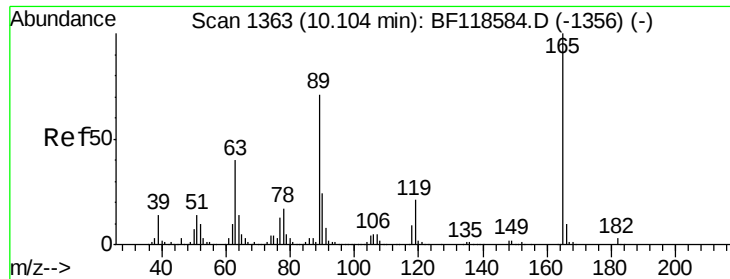
Tot Ion:163	Resp:	131355
Ion Ratio	Lower	Upper
163	100	
194	4.3	3.7 5.5
164	9.6	8.2 12.2



#56
 4-Nitrophenol
 Concen: 2.078 ng
 RT: 10.08 min Scan# 1359
 Delta R.T. 0.08 min
 Lab File: BF118765.D
 Acq: 30 Jan 2020 21:36

Tgt Ion:139	Resp:	12019
Ion Ratio	Lower	Upper
139	100	
109	5.5	47.0 87.0#
65	3.3	65.7 105.7#





#57

2,4-Dinitrotoluene

Concen: 7.234 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.21 min

Lab File: BF118765.D

Acq: 30 Jan 2020 21:36

Instrument :

BNA_F

ClientSampleId :

Tot Ion:165 Resp: 61189

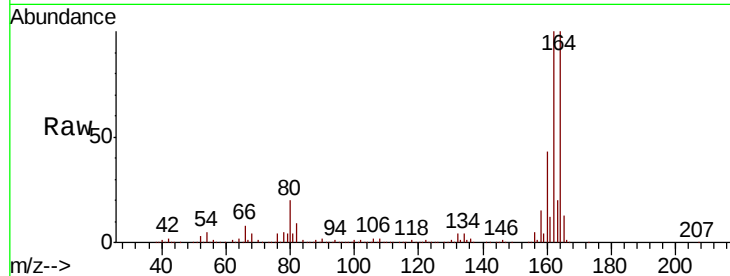
Ion Ratio Lower Upper

165 100

63 1.0 28.5 42.7#

89 1.3 50.4 75.6#

182 0.0 2.3 3.5#

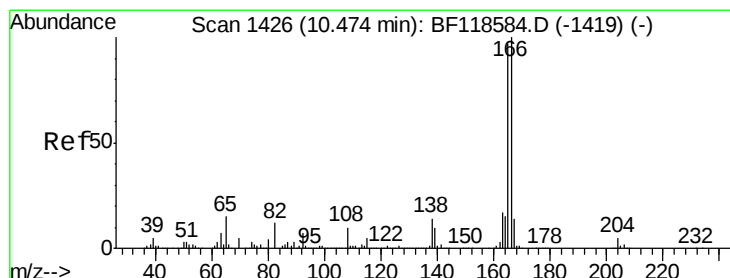
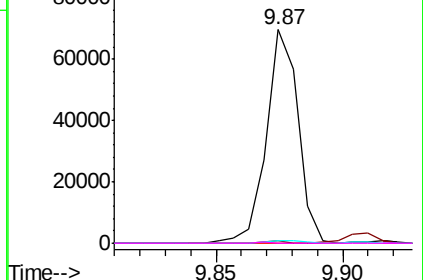
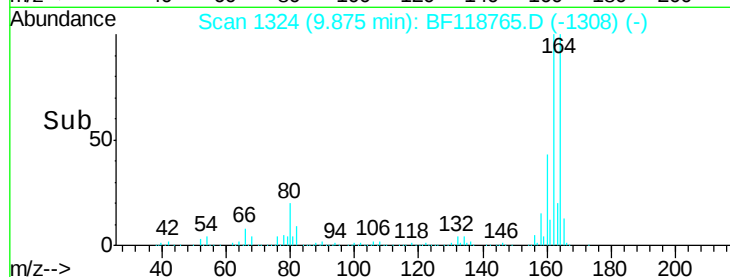


Abundance Ion 165.00 (164.70 to 165.70): E

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



#58

Fluorene

Concen: 2.036 ng

RT: 10.42 min Scan# 1417

Delta R.T. -0.02 min

Lab File: BF118765.D

Acq: 30 Jan 2020 21:36

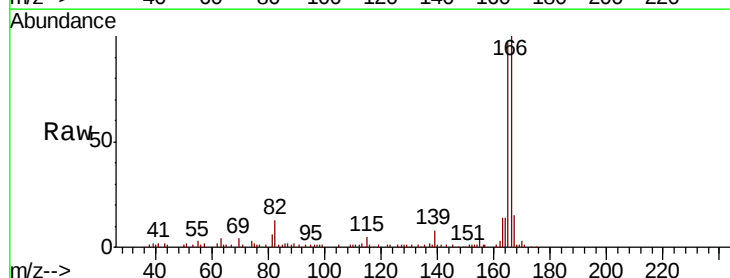
Tgt Ion:166 Resp: 55676

Ion Ratio Lower Upper

166 100

165 96.6 78.6 118.0

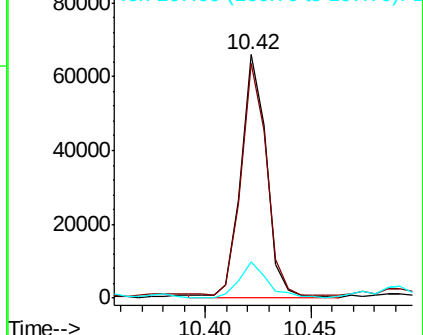
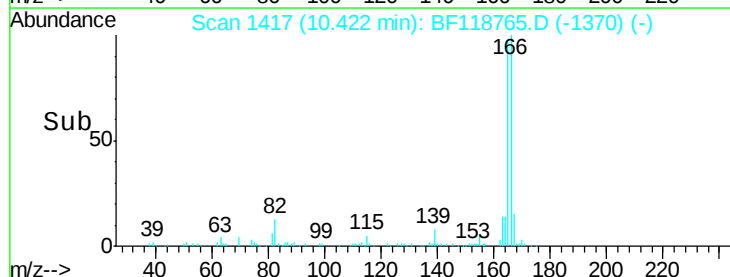
167 14.8 11.4 17.2

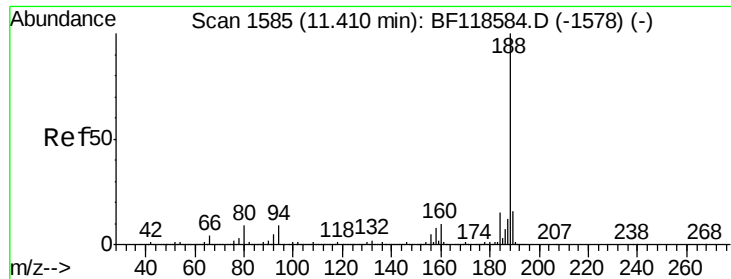


Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.36 min Scan# 1577

Delta R.T. -0.02 min

Lab File: BF118765.D

Acq: 30 Jan 2020 21:36

Instrument :

BNA_F

ClientSampleId :

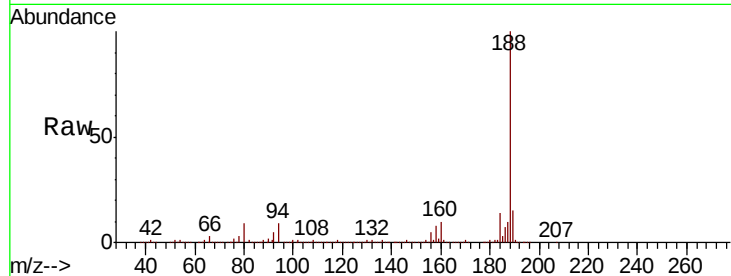
Tot Ion:188 Resp: 760828

Ion Ratio Lower Upper

188 100

94 8.8 7.4 11.2

80 9.5 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

1200000

1000000

800000

600000

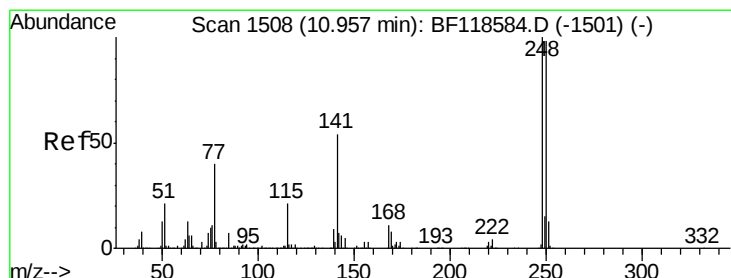
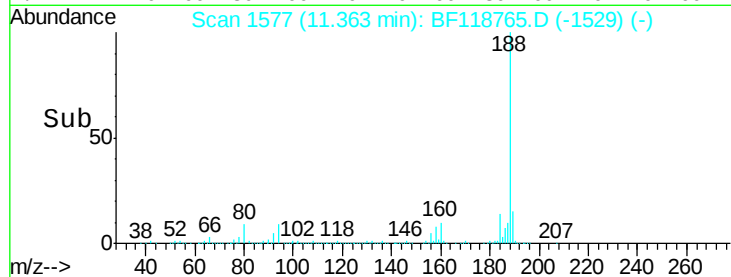
400000

200000

0

11.30 11.35 11.40

Time-->



#67

4-Bromophenyl-phenylether

Concen: 3.665 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.26 min

Lab File: BF118765.D

Acq: 30 Jan 2020 21:36

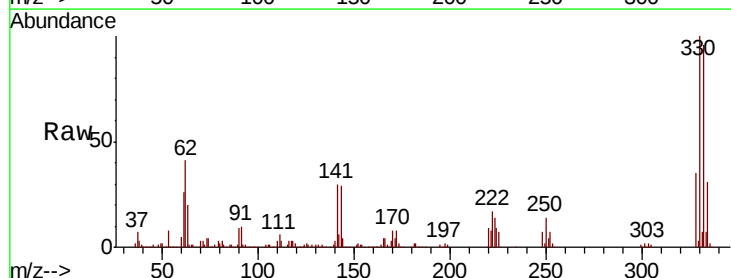
Tgt Ion:248 Resp: 34447

Ion Ratio Lower Upper

248 100

250 197.6 78.7 118.1#

141 430.3 48.4 72.6#



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

200000

150000

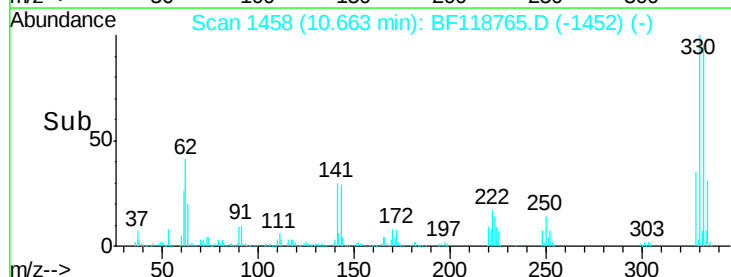
100000

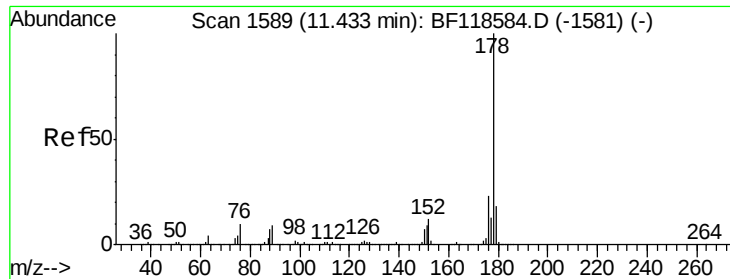
50000

0

10.65 10.66 10.67

Time-->

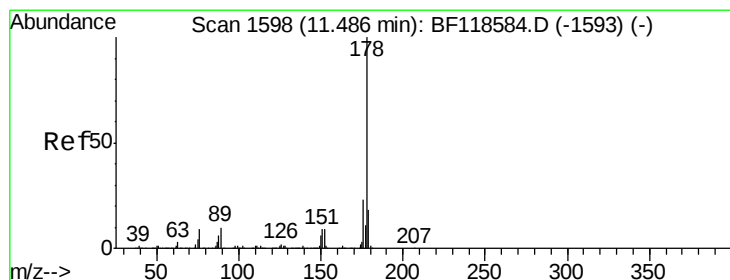
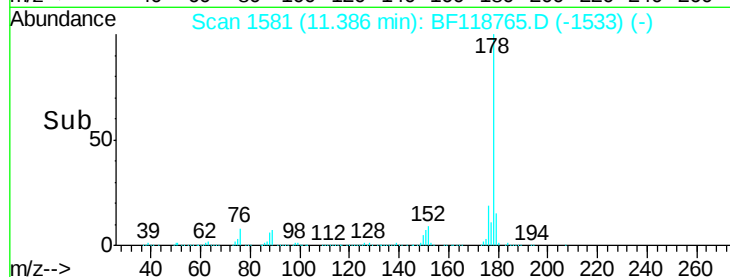
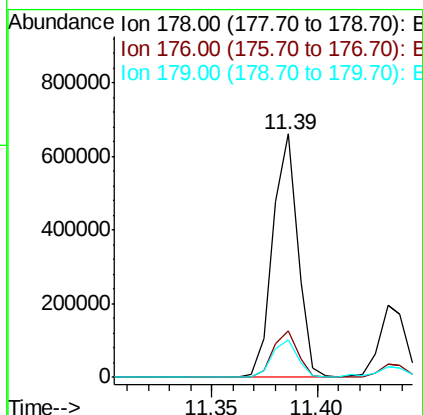
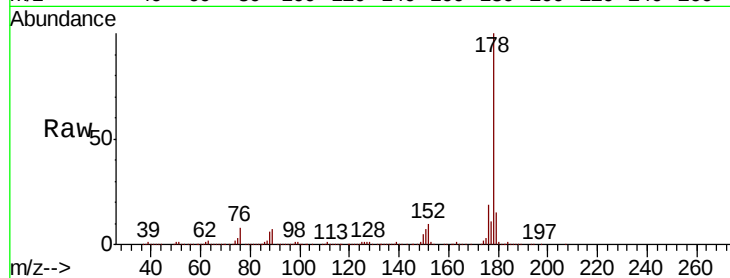




#71
Phenanthrene
Concen: 14.885 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.02 min
Lab File: BF118765.D
Acq: 30 Jan 2020 21:36

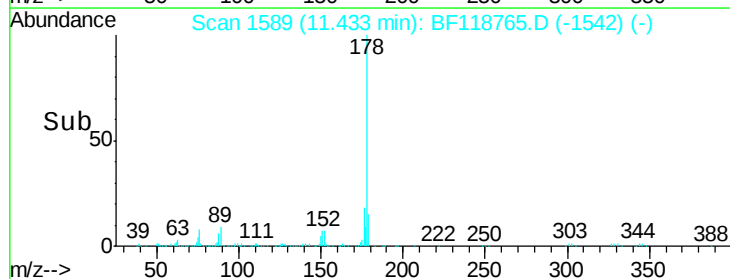
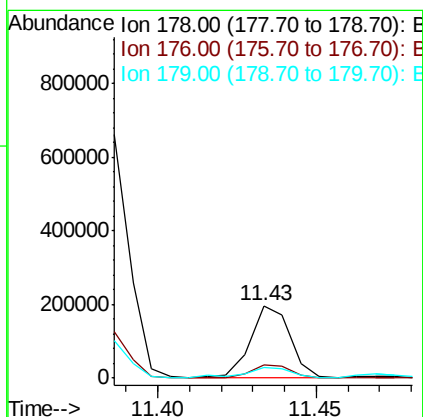
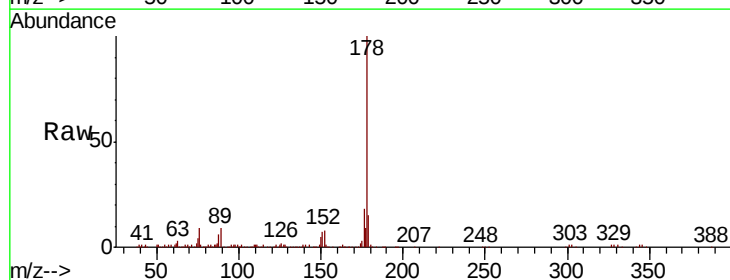
Instrument :
BNA_F
ClientSampleId :

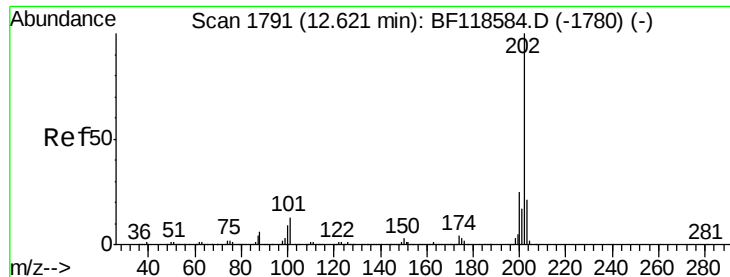
Tot Ion:178 Resp: 546361
Ion Ratio Lower Upper
178 100
176 19.1 16.5 24.7
179 15.4 13.3 19.9



#72
Anthracene
Concen: 4.619 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.02 min
Lab File: BF118765.D
Acq: 30 Jan 2020 21:36

Tgt Ion:178 Resp: 167745
Ion Ratio Lower Upper
178 100
176 17.8 15.8 23.8
179 15.2 13.3 19.9





#75

Fluoranthene

Concen: 16.357 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.02 min

Lab File: BF118765.D

Acq: 30 Jan 2020 21:36

Instrument :

BNA_F

ClientSampleId :

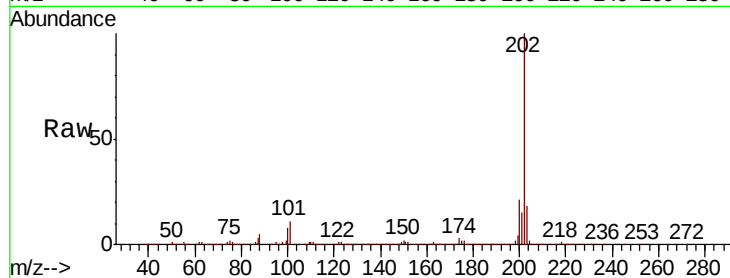
Tot Ion:202 Resp: 633228

Ion Ratio Lower Upper

202 100

101 11.0 0.0 32.1

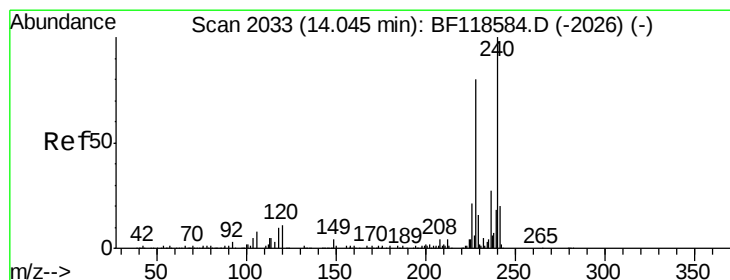
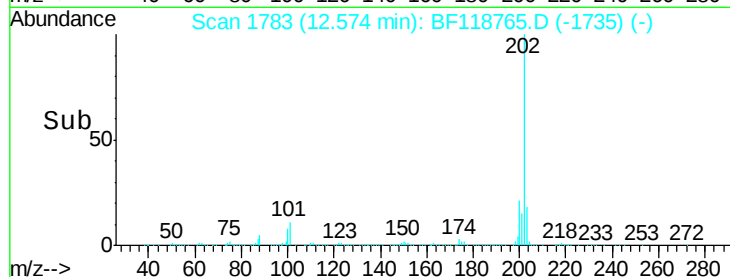
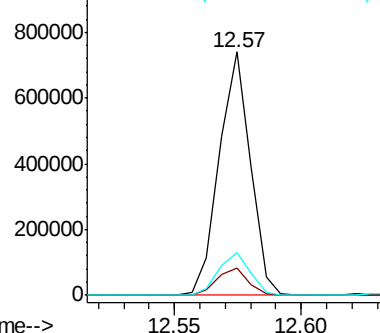
203 17.8 0.0 38.9



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: BF118765.D

Acq: 30 Jan 2020 21:36

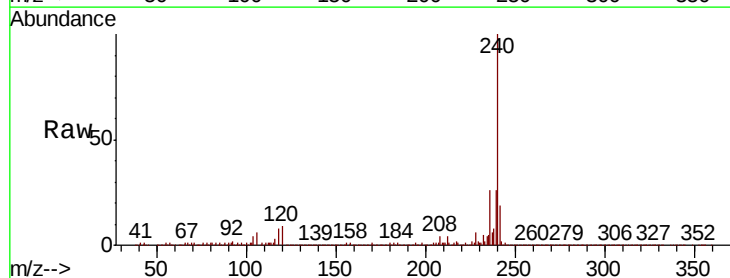
Tgt Ion:240 Resp: 666458

Ion Ratio Lower Upper

240 100

120 8.9 7.6 11.4

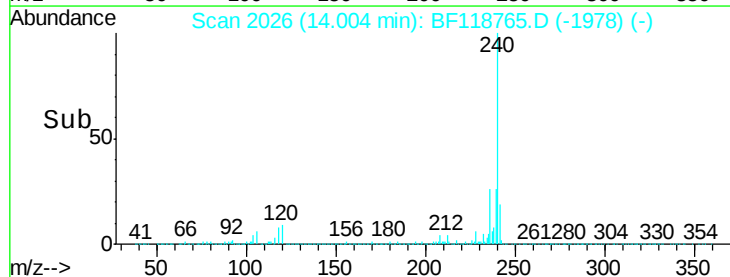
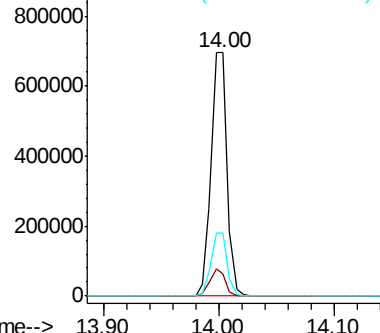
236 25.9 21.0 31.4

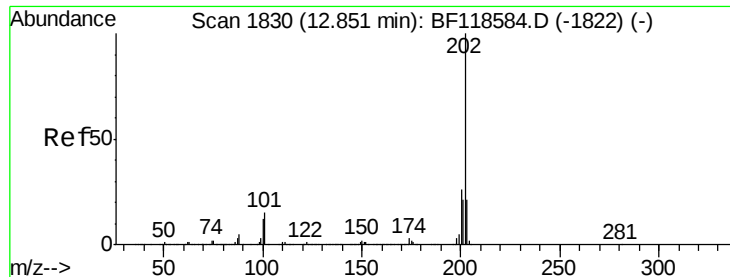


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

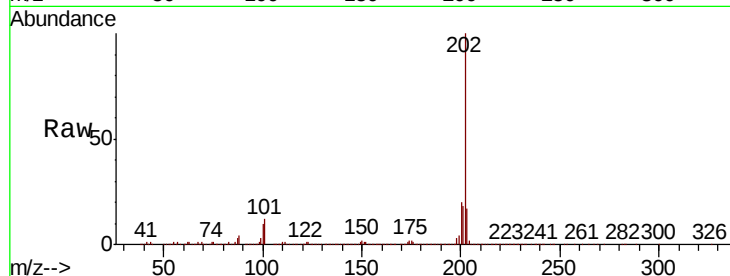




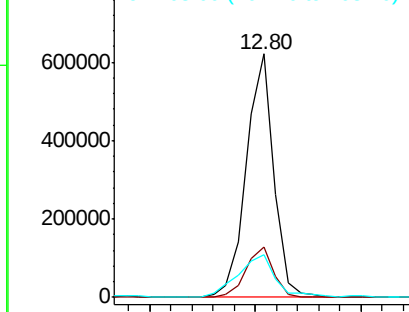
#78
Pvrene
Concen: 12.324 ng
RT: 12.80 min Scan# 1822
Delta R.T. -0.02 min
Lab File: BF118765.D
Acq: 30 Jan 2020 21:36

Instrument :
BNA_F
ClientSampleId :

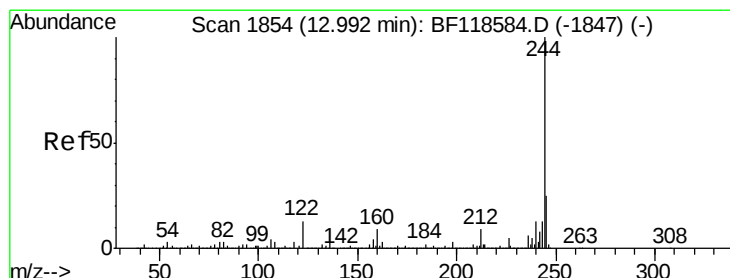
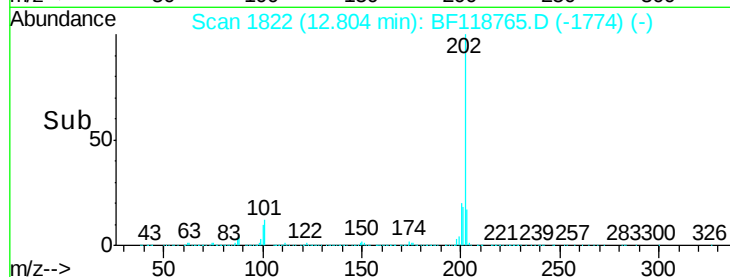
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.4	18.1	27.1
203	17.3	15.2	22.8



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

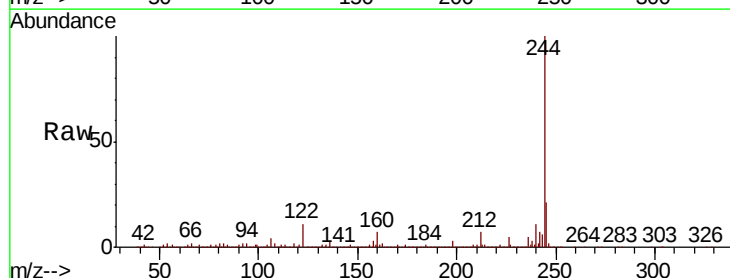


Time-->

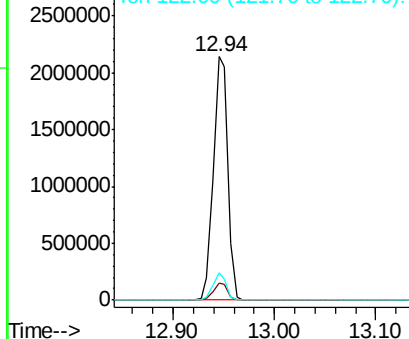


#79
Terphenyl-d14
Concen: 69.223 ng
RT: 12.94 min Scan# 1846
Delta R.T. -0.02 min
Lab File: BF118765.D
Acq: 30 Jan 2020 21:36

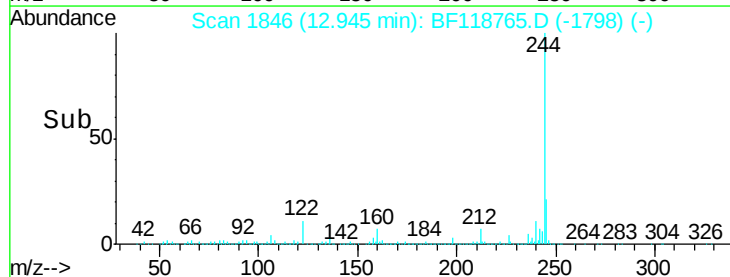
Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.3	9.5
122	11.3	9.2	13.8

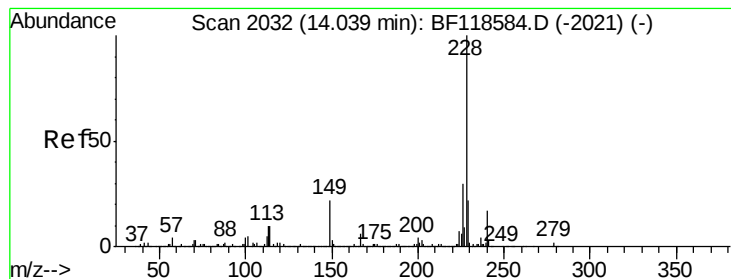


Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



Time-->





#81

Benzo(a)anthracene

Concen: 7.465 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.02 min

Lab File: BF118765.D

Acq: 30 Jan 2020 21:36

Instrument :

BNA_F

ClientSampleId :

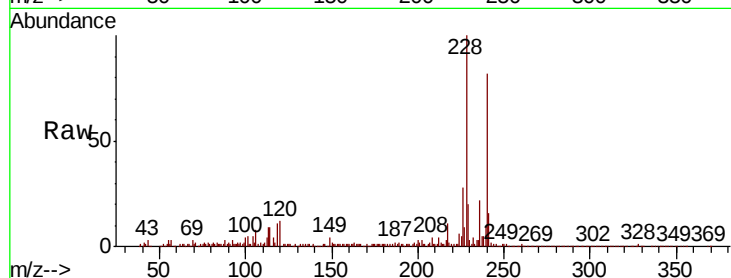
Tot Ion:228 Resp: 299280

Ion Ratio Lower Upper

228 100

226 27.8 22.6 34.0

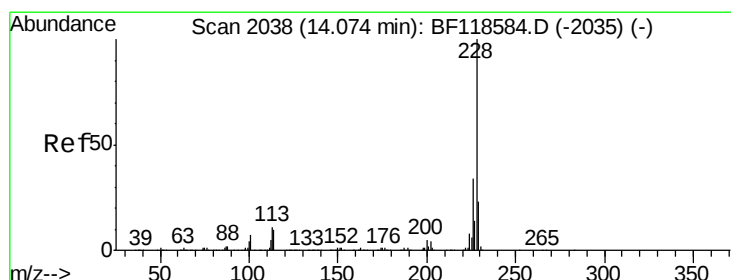
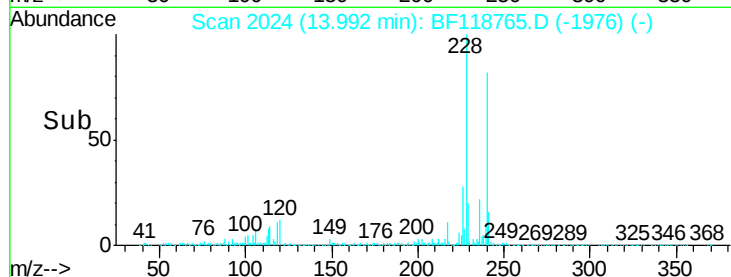
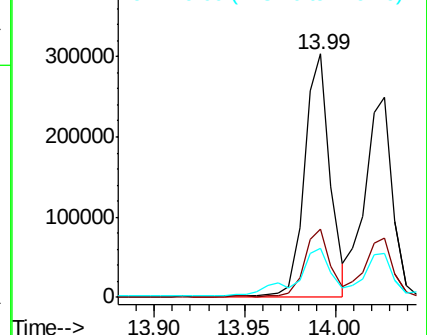
229 20.3 16.6 25.0



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: 6.902 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.02 min

Lab File: BF118765.D

Acq: 30 Jan 2020 21:36

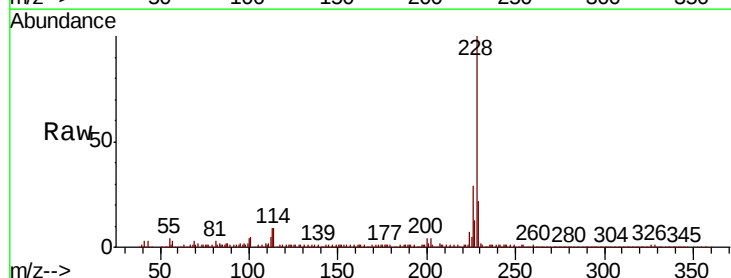
Tgt Ion:228 Resp: 265196

Ion Ratio Lower Upper

228 100

226 29.5 25.6 38.4

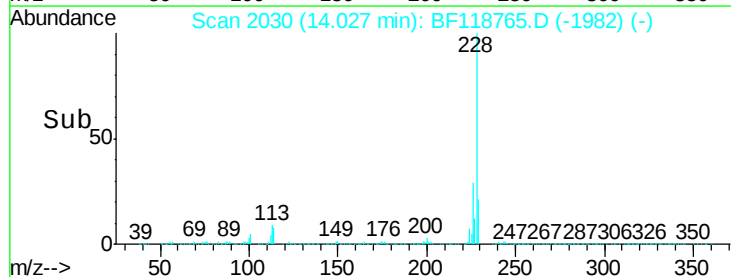
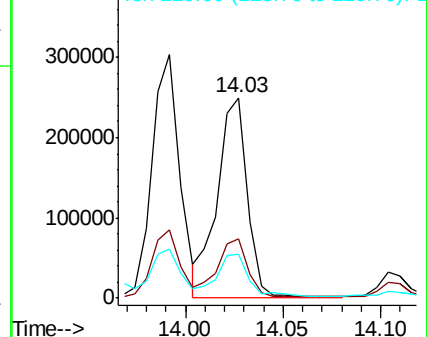
229 21.9 17.1 25.7

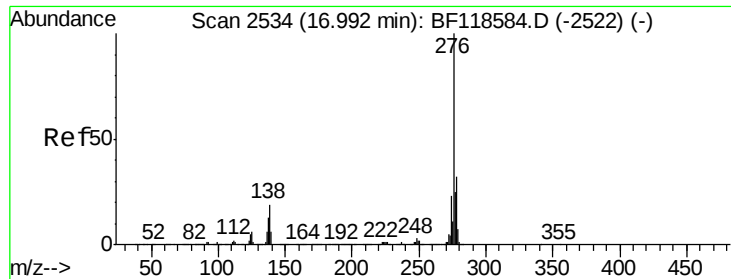


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

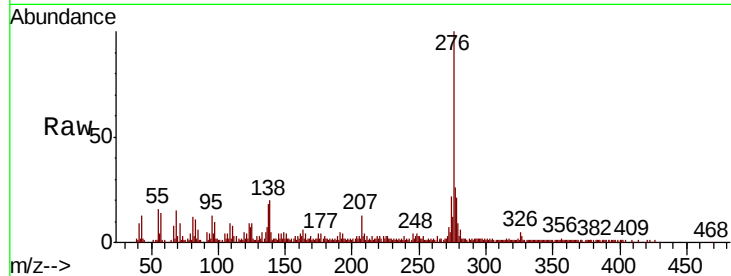




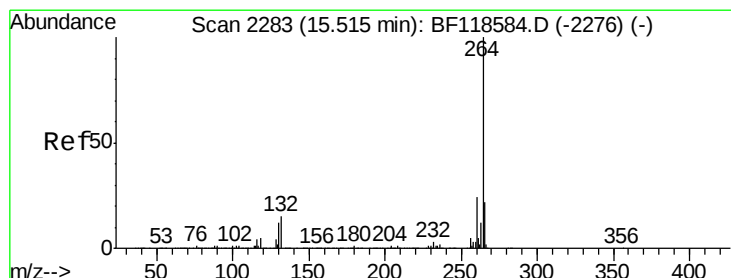
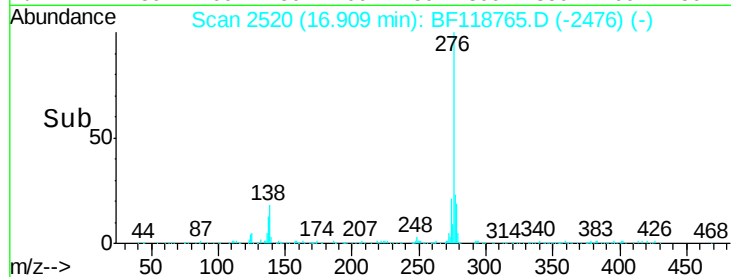
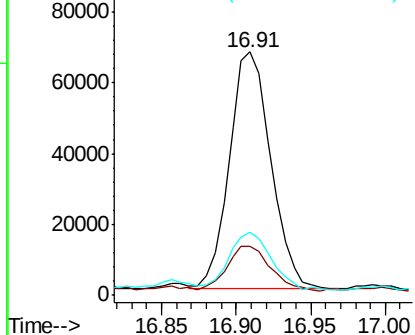
#86
Indeno(1,2,3-cd)pyrene
Concen: 3.875 ng
RT: 16.91 min Scan# 2520
Delta R.T. -0.04 min
Lab File: BF118765.D
Acq: 30 Jan 2020 21:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.9	18.2	27.4
277	24.9	20.4	30.6

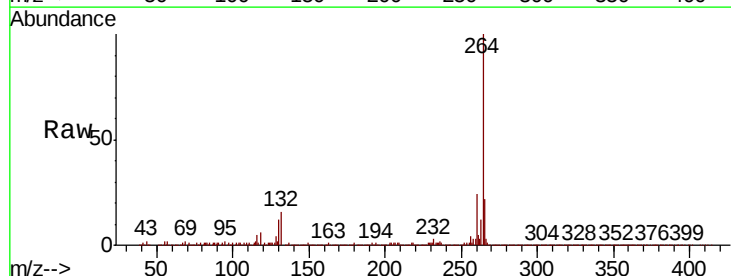


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

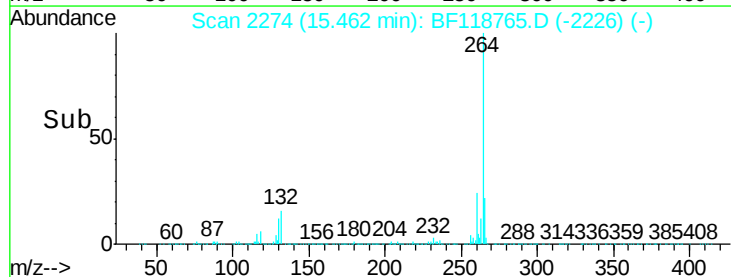
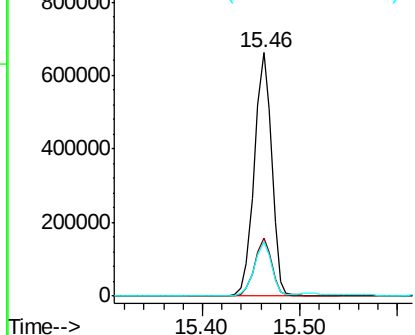


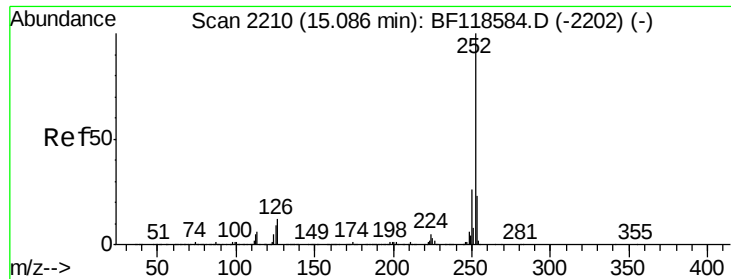
#87
Perylene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. -0.02 min
Lab File: BF118765.D
Acq: 30 Jan 2020 21:36

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.6	28.0
265	22.5	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

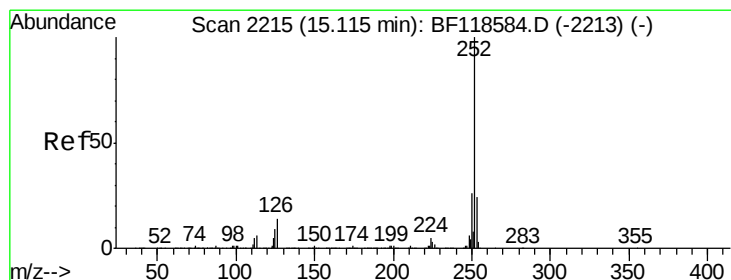
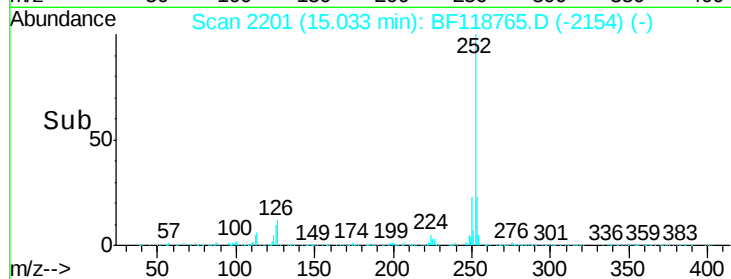
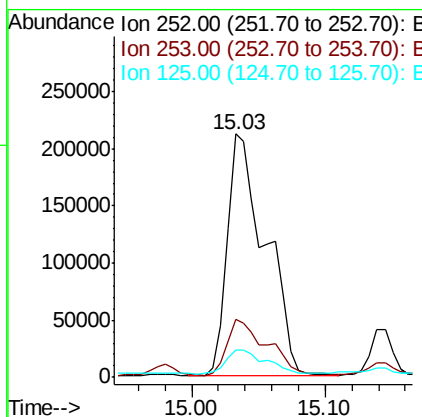
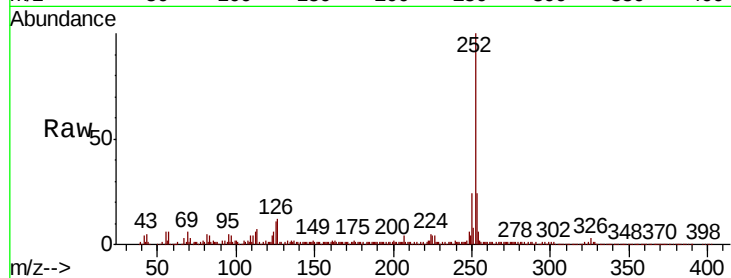




#88
Benzo(b)fluoranthene
Concen: 8.173 ng
RT: 15.03 min Scan# 2201
Delta R.T. -0.02 min
Lab File: BF118765.D
Acq: 30 Jan 2020 21:36

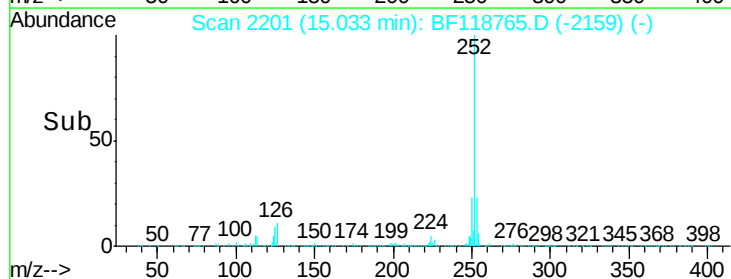
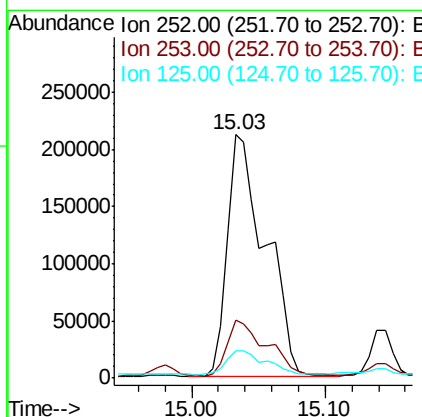
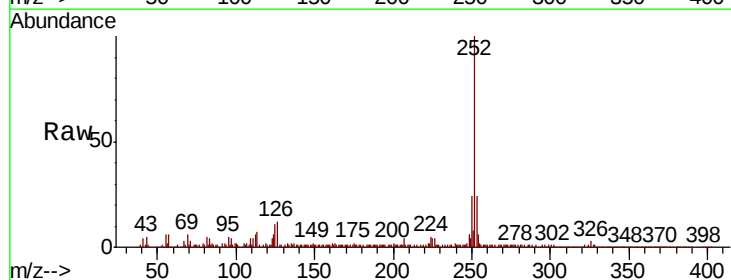
Instrument :
BNA_F
ClientSampleId :

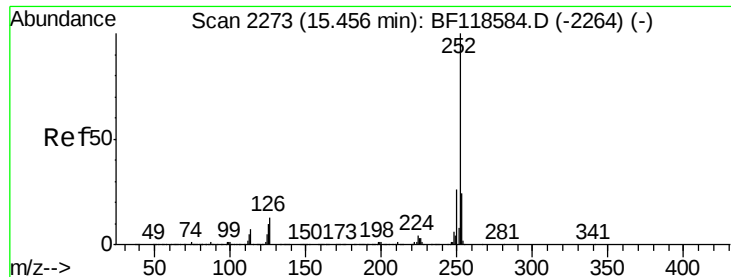
Tot Ion:252 Resp: 422111
Ion Ratio Lower Upper
252 100
253 23.7 18.2 27.4
125 11.1 7.7 11.5



#89
Benzo(k)fluoranthene
Concen: 8.822 ng
RT: 15.03 min Scan# 2201
Delta R.T. -0.05 min
Lab File: BF118765.D
Acq: 30 Jan 2020 21:36

Tgt Ion:252 Resp: 422111
Ion Ratio Lower Upper
252 100
253 23.7 18.4 27.6
125 11.1 8.1 12.1

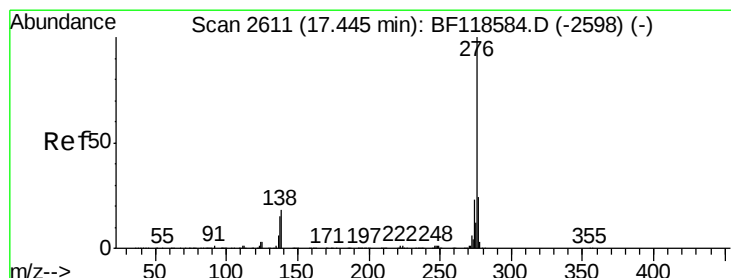
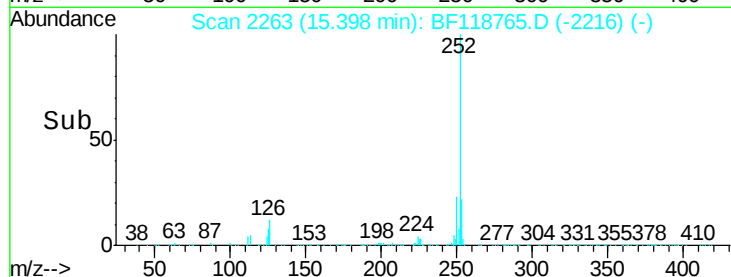
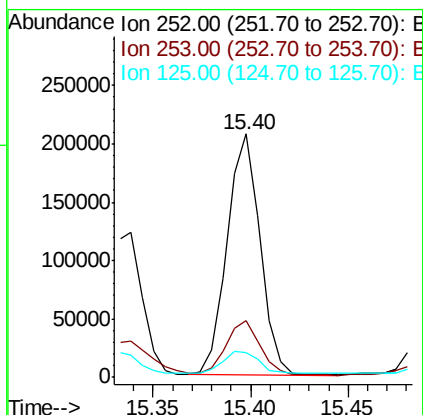
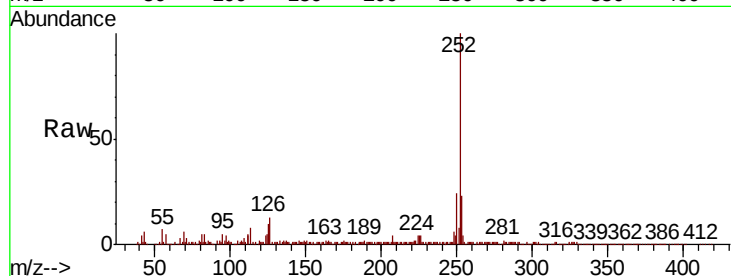




#90
Benzo(a)pyrene
Concen: 5.417 ng
RT: 15.40 min Scan# 2263
Delta R.T. -0.02 min
Lab File: BF118765.D
Acq: 30 Jan 2020 21:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.2	27.4
125	10.2	8.3	12.5



#92
Benzo(g,h,i)perylene
Concen: 2.950 ng
RT: 17.35 min Scan# 2595
Delta R.T. -0.04 min
Lab File: BF118765.D
Acq: 30 Jan 2020 21:36

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.0	28.6
138	21.4	15.4	23.2

