

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040419\
 Data File : BF113598.D
 Acq On : 4 Apr 2019 22:32
 Operator : JU/SJ
 Sample : K2221-03
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 05 01:33:00 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 04 04:05:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	145563	20.00	ng	0.00
21) Naphthalene-d8	7.96	136	553097	20.00	ng	0.00
39) Acenaphthene-d10	9.71	164	280168	20.00	ng	-0.01
64) Phenanthrene-d10	11.19	188	569315	20.00	ng	-0.02
76) Chrysene-d12	13.82	240	425353	20.00	ng	-0.03
87) Perylene-d12	15.22	264	384311	20.00	ng	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.29	112	805161	94.32	ng	0.00
7) Phenol-d6	6.33	99	1066915	101.41	ng	-0.01
23) Nitrobenzene-d5	7.25	82	647369	68.56	ng	-0.01
42) 2,4,6-Tribromophenol	10.50	330	332117	98.68	ng	-0.02
45) 2-Fluorobiphenyl	9.03	172	1259739	72.39	ng	-0.02
79) Terphenyl-d14	12.77	244	1500666	71.83	ng	-0.02

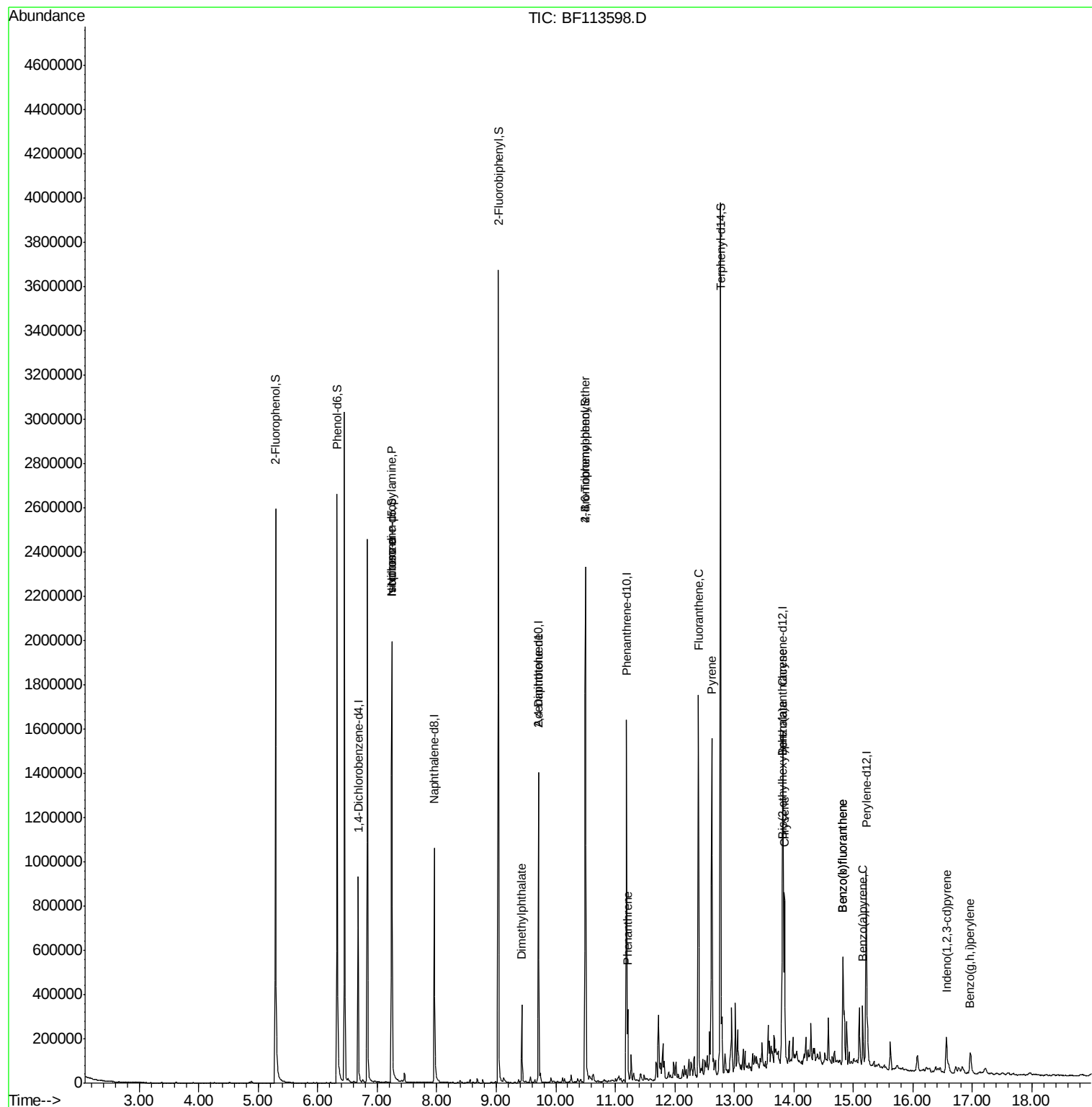
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.25	70	83619	12.889	ng	# 77
25) Isophorone	7.25	82	647364	35.590	ng	# 64
50) Dimethylphthalate	9.43	163	154677	7.490	ng	100
57) 2,4-Dinitrotoluene	9.71	165	35790	6.501	ng	# 23
67) 4-Bromophenyl-phenylether	10.50	248	18610	2.915	ng	# 1
71) Phenanthrene	11.21	178	115473	4.082	ng	97
75) Fluoranthene	12.40	202	703111	23.194	ng	98
78) Pyrene	12.62	202	605812	18.718	ng	99
81) Benzo(a)anthracene	13.80	228	260422	10.614	ng	99
83) Chrysene	13.84	228	330559	13.290	ng	99
84) Bis(2-ethylhexyl)phthalate	13.80	149	48317	3.033	ng	99
86) Indeno(1,2,3-cd)pyrene	16.56	276	81398	3.544	ng	98
88) Benzo(b)fluoranthene	14.82	252	340376	14.469	ng	98
89) Benzo(k)fluoranthene	14.82	252	340376	16.122	ng	# 98
90) Benzo(a)pyrene	15.16	252	110034	5.264	ng	98
92) Benzo(g,h,i)perylene	16.97	276	77603	3.889	ng	98

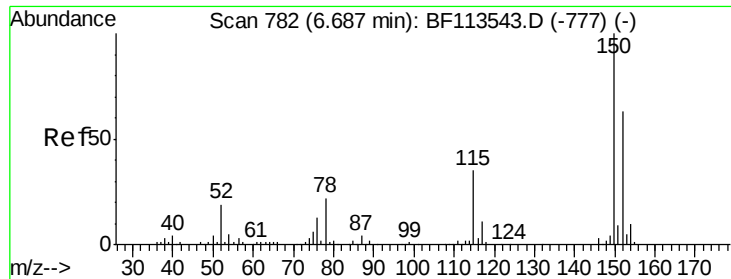
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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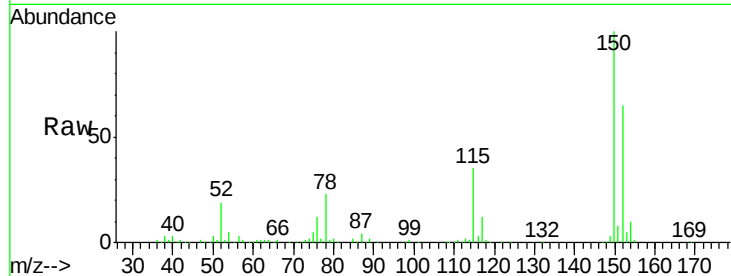


#1

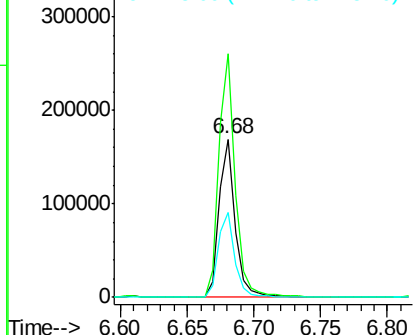
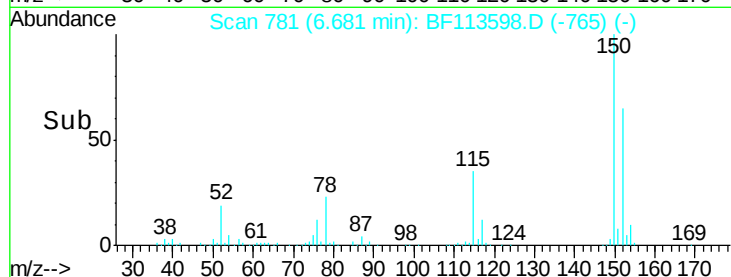
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.68 min Scan# 781
Delta R.T. -0.01 min
Lab File: BF113598.D
Acq: 4 Apr 2019 22:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 145563
Ion Ratio Lower Upper
152 100
150 154.2 124.7 187.1
115 53.7 46.0 69.0



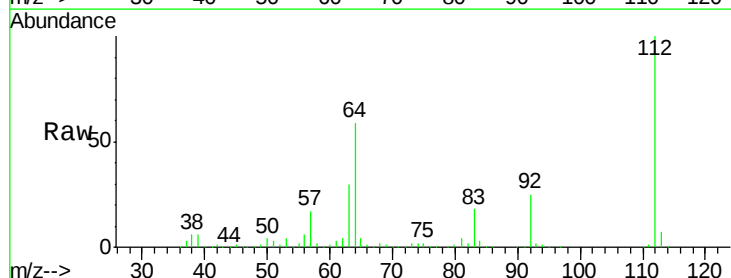
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



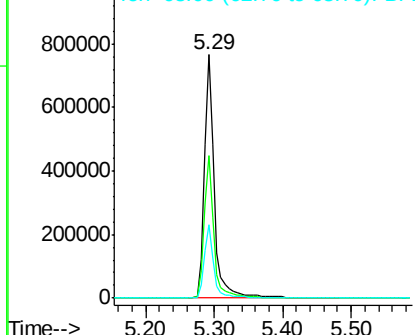
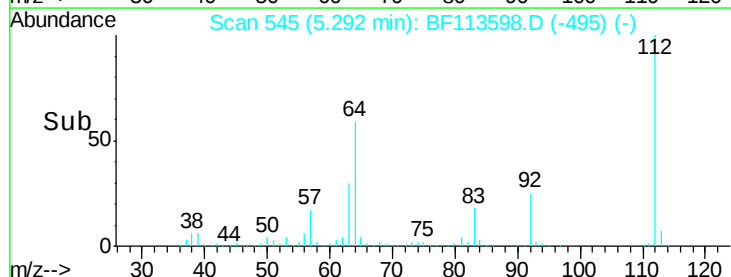
#5

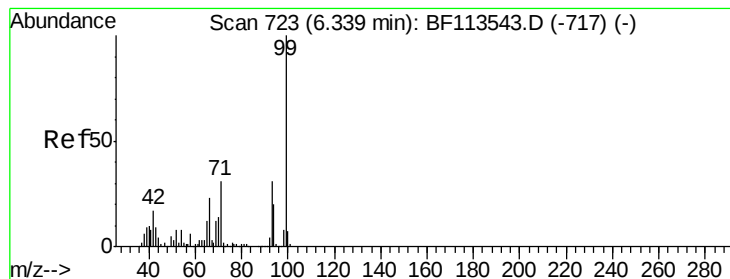
2-Fluorophenol
Concen: 94.322 ng
RT: 5.29 min Scan# 545
Delta R.T. -0.01 min
Lab File: BF113598.D
Acq: 4 Apr 2019 22:32

Tgt Ion:112 Resp: 805161
Ion Ratio Lower Upper
112 100
64 58.5 49.2 73.8
63 30.0 24.9 37.3



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: 101.408 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.01 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

Instrument :

BNA_F

ClientSampleId :

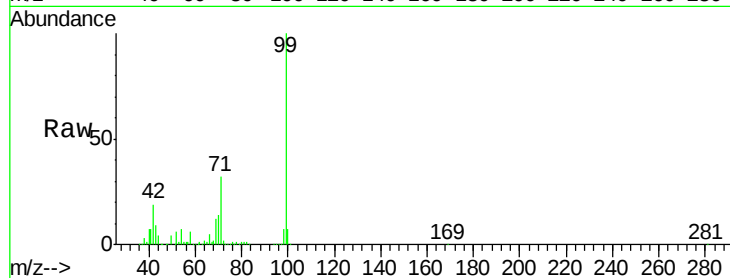
Tot Ion: 99 Resp: 1066915

Ion Ratio Lower Upper

99 100

42 18.5 14.8 22.2

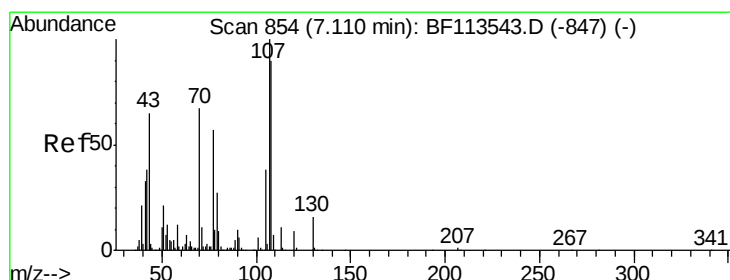
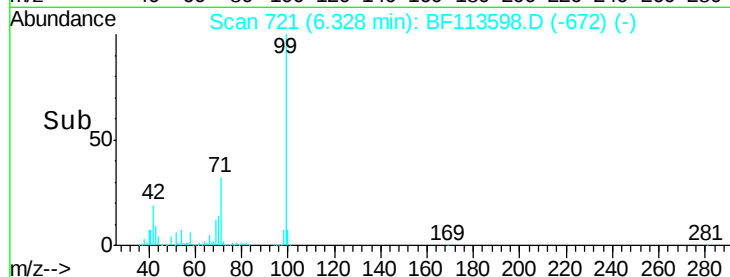
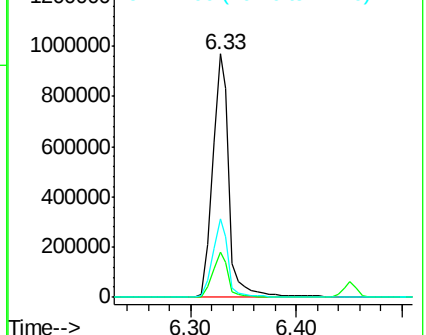
71 32.0 24.9 37.3



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: 12.889 ng

RT: 7.25 min Scan# 877

Delta R.T. 0.14 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

Tgt Ion: 70 Resp: 83619

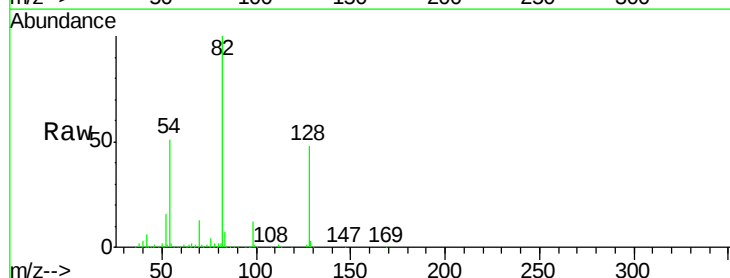
Ion Ratio Lower Upper

70 100

42 48.7 48.4 72.6

101 0.0 7.8 11.8#

130 2.3 18.2 27.4#

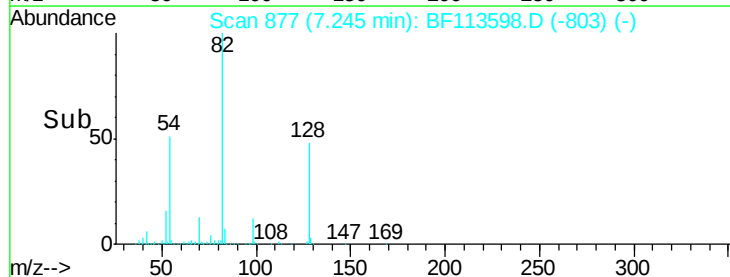
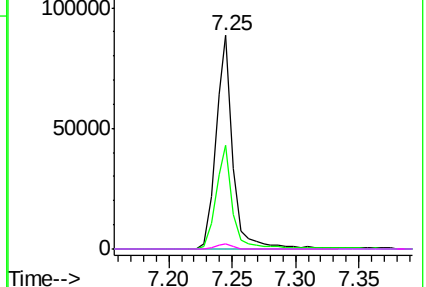


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 7.96 min Scan# 999

Delta R.T. -0.01 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 553097

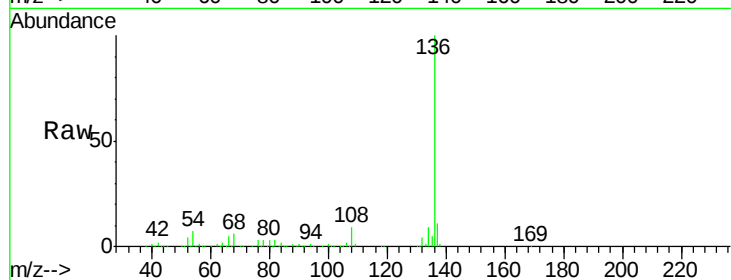
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 7.2 7.0 10.6

68 5.5 4.8 7.2

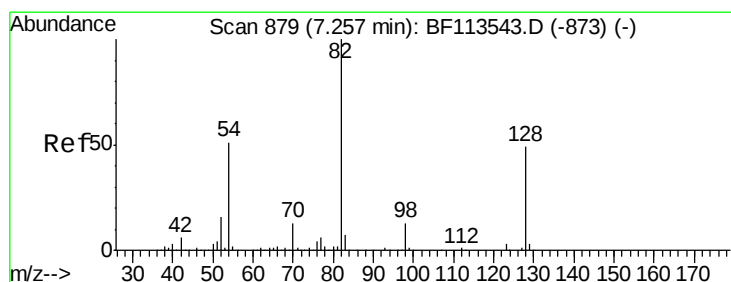
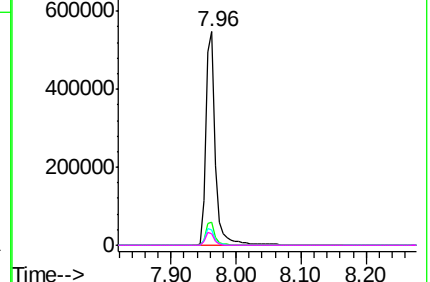
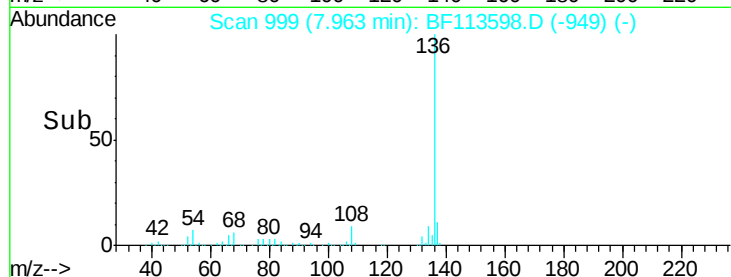


Abundance Ion 136.00 (135.70 to 136.70): E

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: 68.559 ng

RT: 7.25 min Scan# 877

Delta R.T. -0.01 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

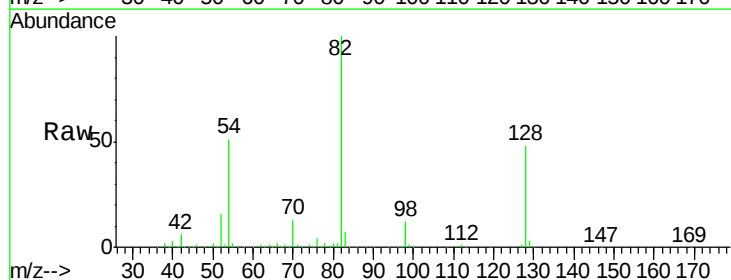
Tgt Ion: 82 Resp: 647369

Ion Ratio Lower Upper

82 100

128 47.6 36.5 54.7

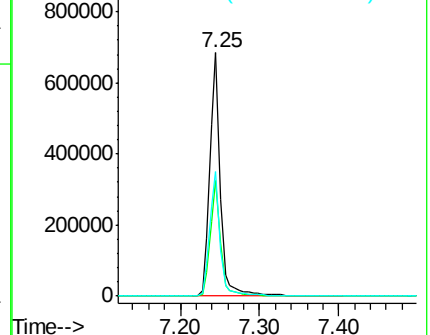
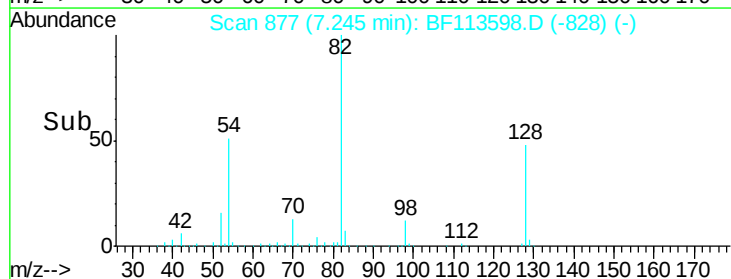
54 51.4 42.2 63.2

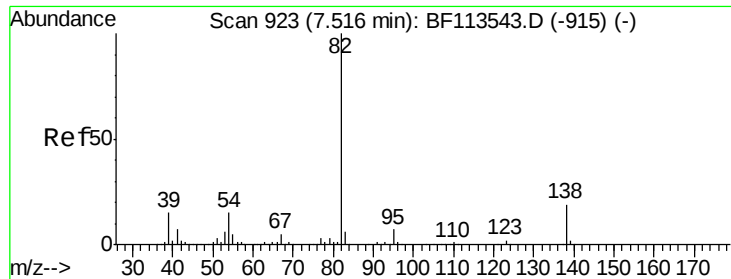


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 35.590 ng

RT: 7.25 min Scan# 877

Delta R.T. -0.27 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

Instrument :

BNA_F

ClientSampleId :

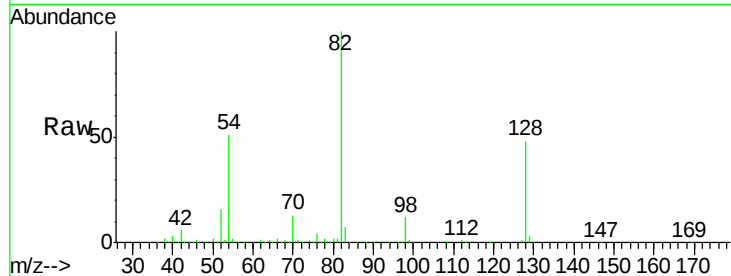
Tot Ion: 82 Resp: 647364

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

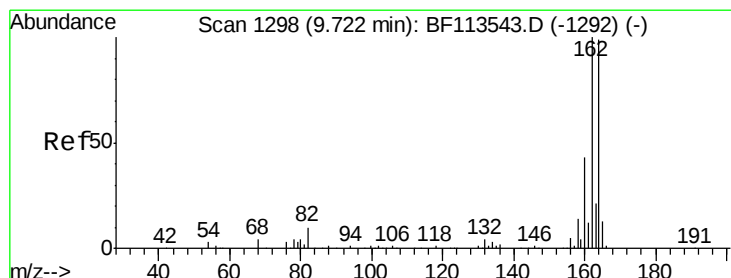
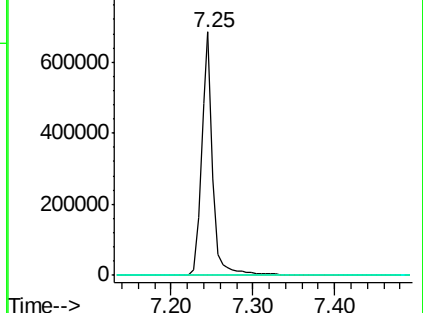
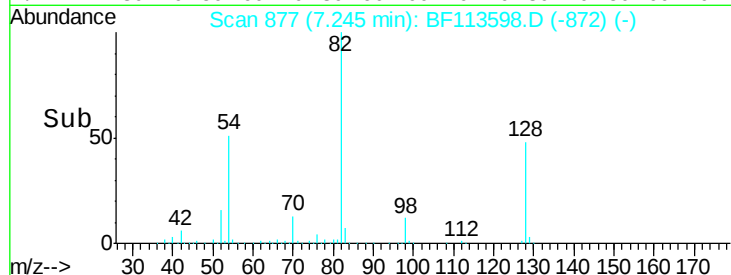
138 0.0 15.2 22.8#



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: 9.71 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

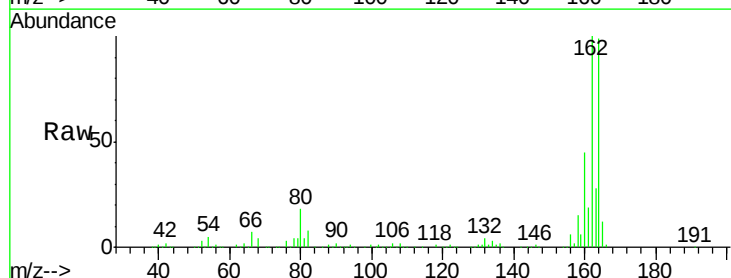
Tgt Ion:164 Resp: 280168

Ion Ratio Lower Upper

164 100

162 101.5 81.8 122.6

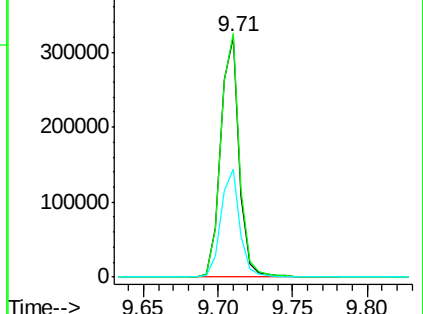
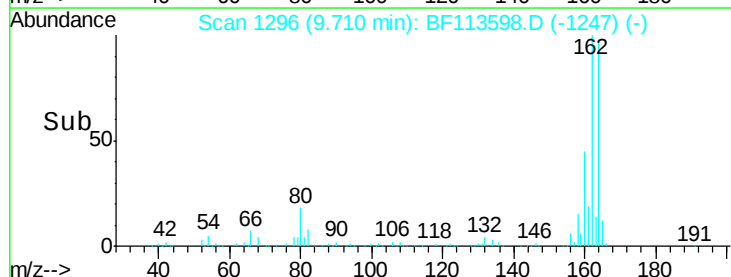
160 45.2 36.4 54.6



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

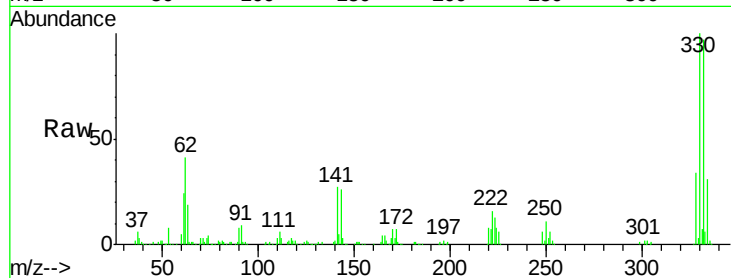




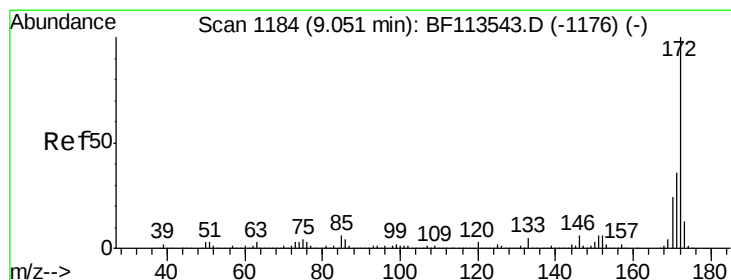
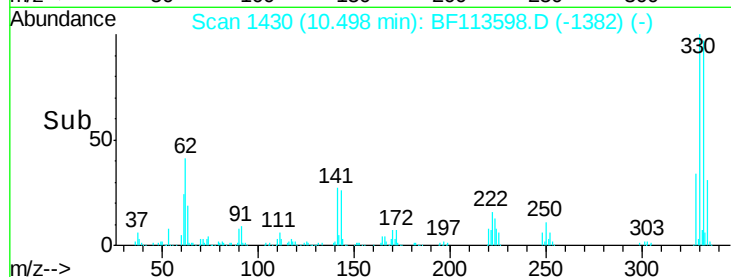
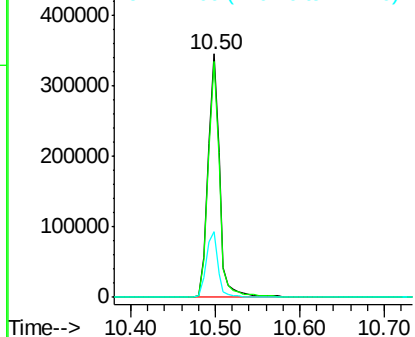
#42
 2,4,6-Tribromophenol
 Concen: 98.683 ng
 RT: 10.50 min Scan# 1430
 Delta R.T. -0.02 min
 Lab File: BF113598.D
 Acq: 4 Apr 2019 22:32

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 332117
 Ion Ratio Lower Upper
 330 100
 332 95.7 77.8 116.6
 141 27.8 22.7 34.1

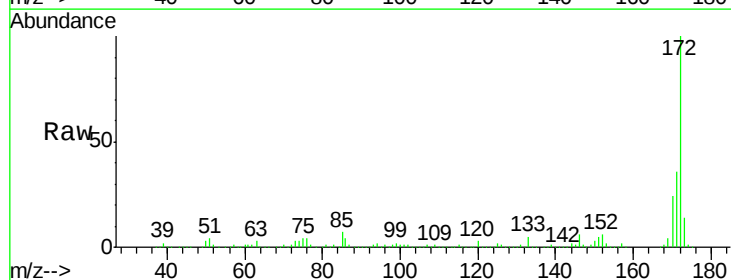


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

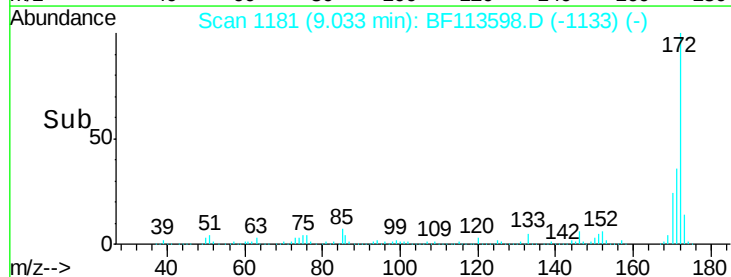
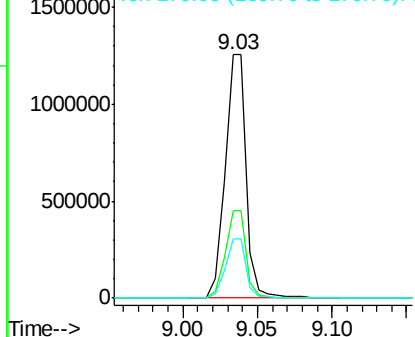


#45
 2-Fluorobiphenyl
 Concen: 72.387 ng
 RT: 9.03 min Scan# 1181
 Delta R.T. -0.02 min
 Lab File: BF113598.D
 Acq: 4 Apr 2019 22:32

Tgt Ion:172 Resp: 1259739
 Ion Ratio Lower Upper
 172 100
 171 36.0 29.0 43.6
 170 24.4 19.5 29.3



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

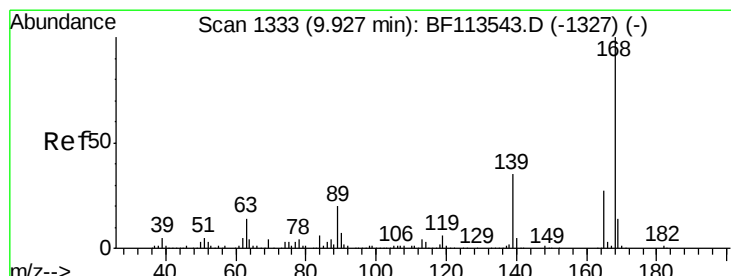
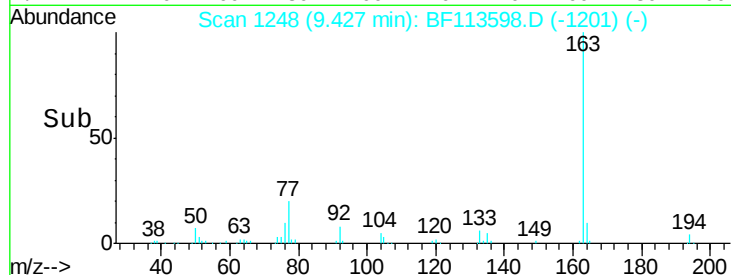
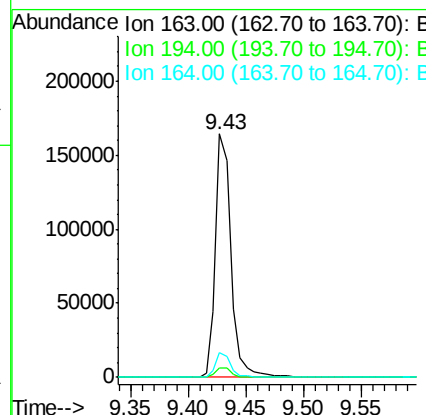
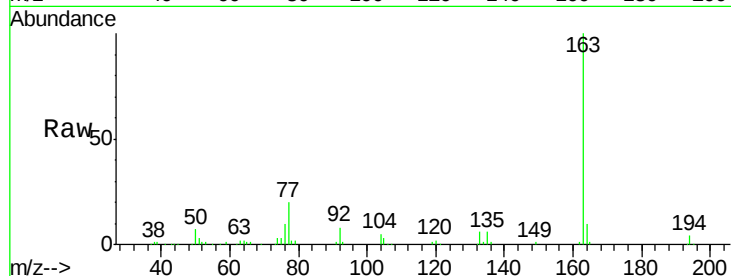




#50
Dimethylphthalate
Concen: 7.490 ng
RT: 9.43 min Scan# 1248
Delta R.T. -0.02 min
Lab File: BF113598.D
Acq: 4 Apr 2019 22:32

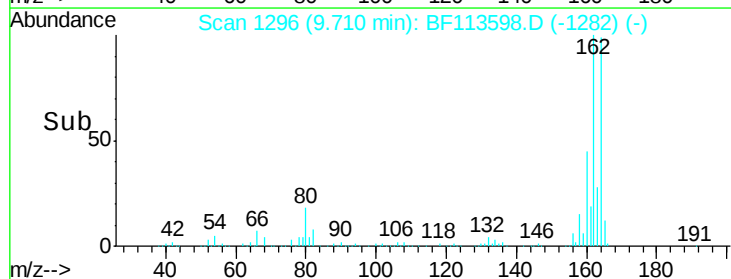
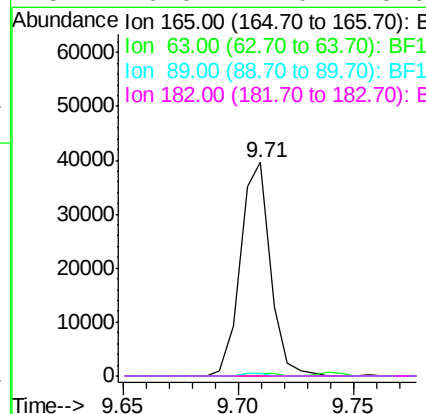
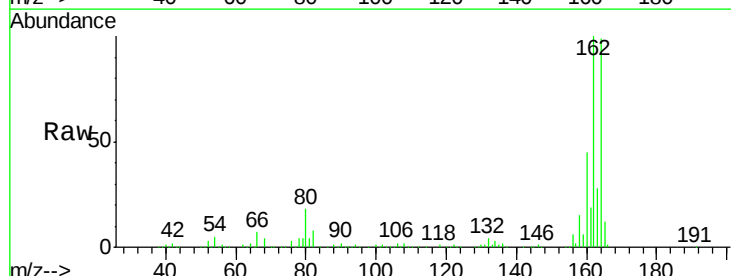
Instrument :
BNA_F
ClientSampleId :

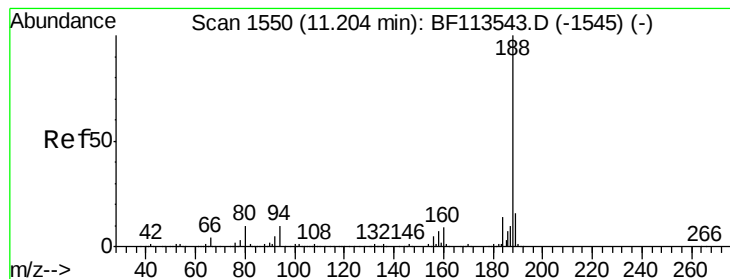
Tot Ion:163 Resp: 154677
Ion Ratio Lower Upper
163 100
194 3.7 3.0 4.6
164 10.3 8.1 12.1



#57
2,4-Dinitrotoluene
Concen: 6.501 ng
RT: 9.71 min Scan# 1296
Delta R.T. -0.22 min
Lab File: BF113598.D
Acq: 4 Apr 2019 22:32

Tgt Ion:165 Resp: 35790
Ion Ratio Lower Upper
165 100
63 1.2 37.5 56.3#
89 1.2 57.4 86.2#
182 0.0 2.0 3.0#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.19 min Scan# 1547

Delta R.T. -0.02 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

Instrument :

BNA_F

ClientSampleId :

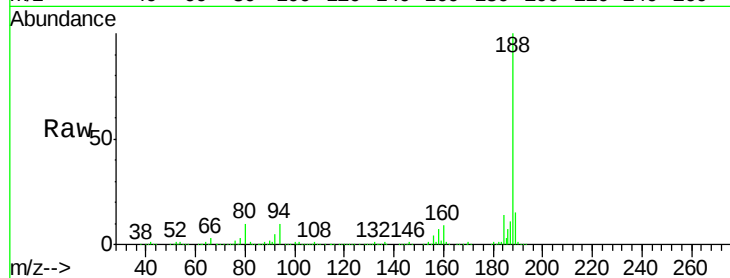
Tot Ion:188 Resp: 569315

Ion Ratio Lower Upper

188 100

94 9.5 7.0 10.6

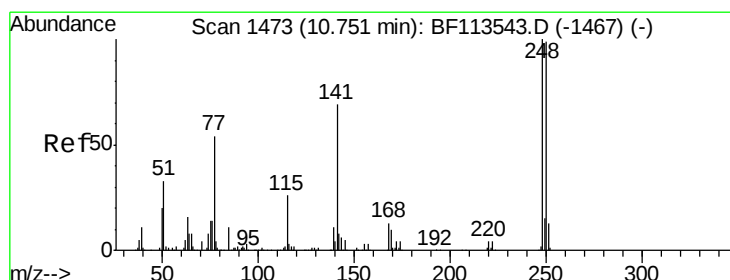
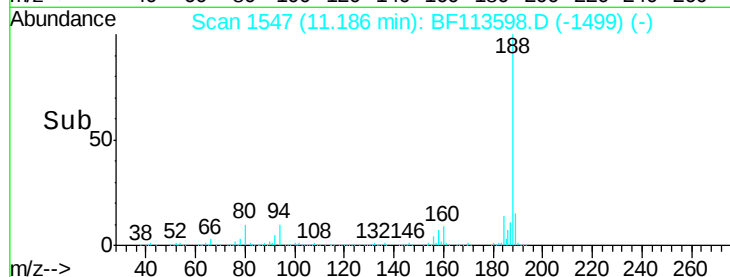
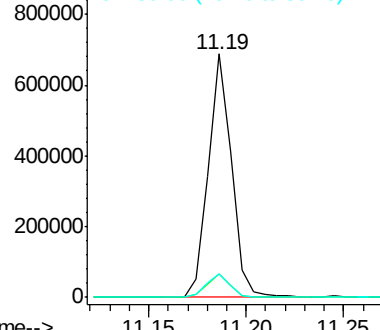
80 9.7 7.7 11.5



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: 2.915 ng

RT: 10.50 min Scan# 1430

Delta R.T. -0.25 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

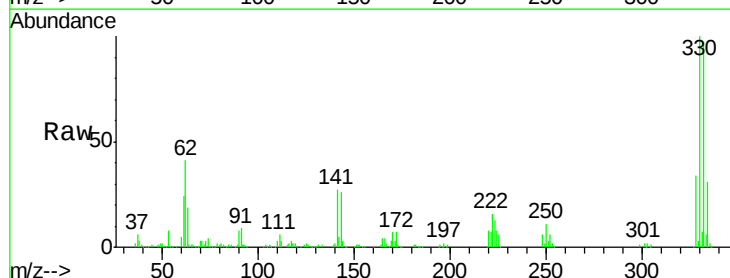
Tgt Ion:248 Resp: 18610

Ion Ratio Lower Upper

248 100

250 199.6 78.3 117.5#

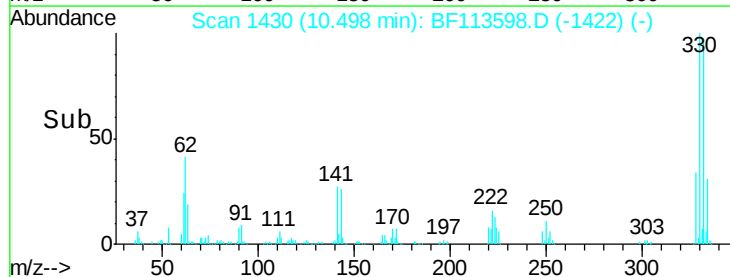
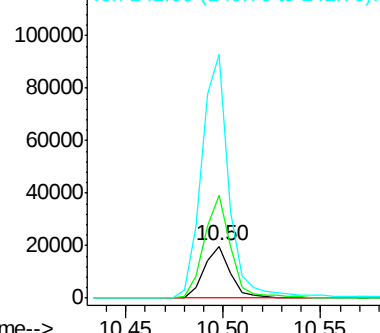
141 470.6 56.2 84.4#

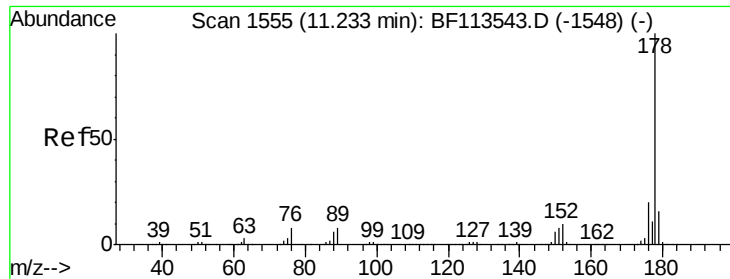


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#71

Phenanthrene

Concen: 4.082 ng

RT: 11.21 min Scan# 1551

Delta R.T. -0.02 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

Instrument :

BNA_F

ClientSampleId :

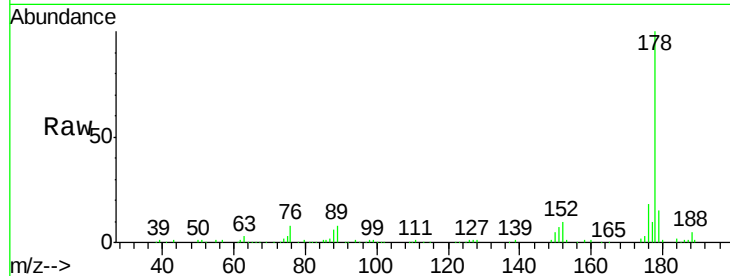
Tot Ion:178 Resp: 115473

Ion Ratio Lower Upper

178 100

176 18.2 16.2 24.2

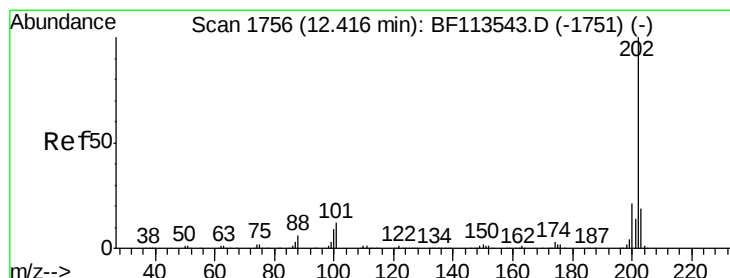
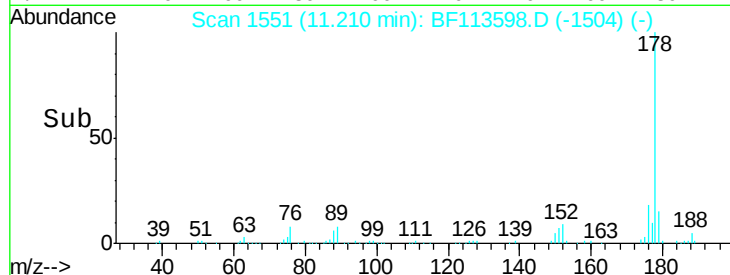
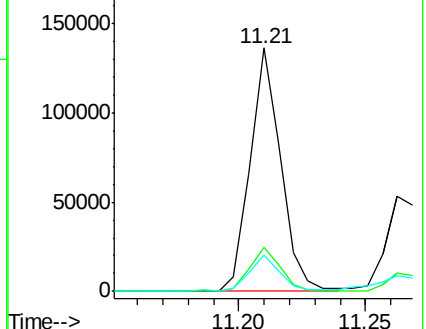
179 15.0 12.7 19.1



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: 23.194 ng

RT: 12.40 min Scan# 1753

Delta R.T. -0.02 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

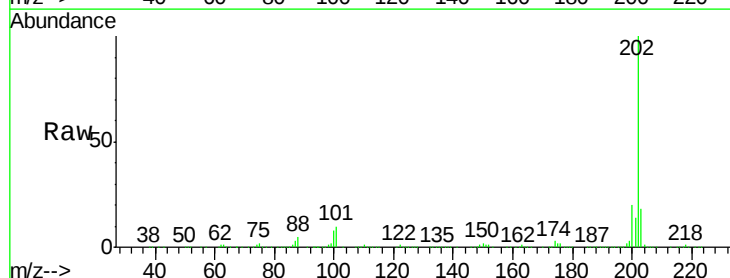
Tgt Ion:202 Resp: 703111

Ion Ratio Lower Upper

202 100

101 10.3 0.0 31.4

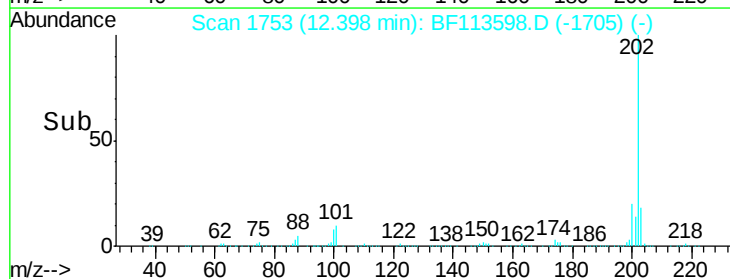
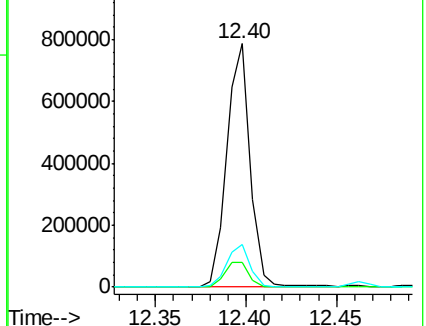
203 17.6 0.0 38.0

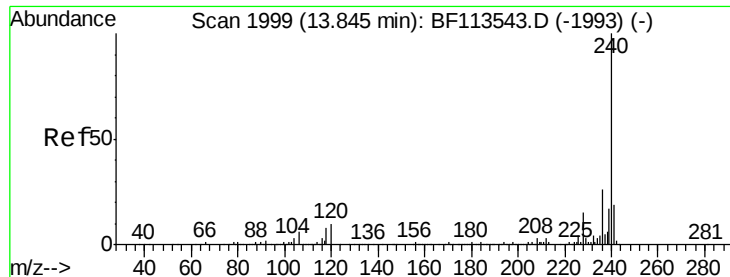


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.82 min Scan# 1994

Delta R.T. -0.03 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

Instrument :

BNA_F

ClientSampleId :

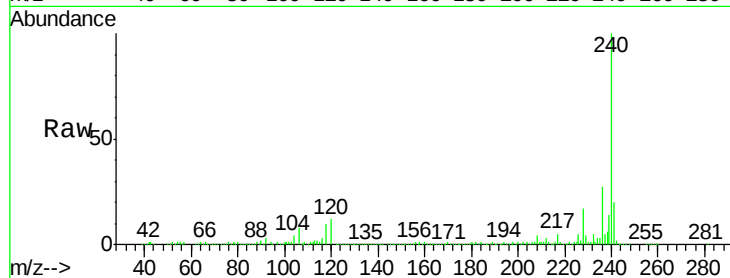
Tot Ion:240 Resp: 425353

Ion Ratio Lower Upper

240 100

120 11.5 8.8 13.2

236 26.5 20.9 31.3

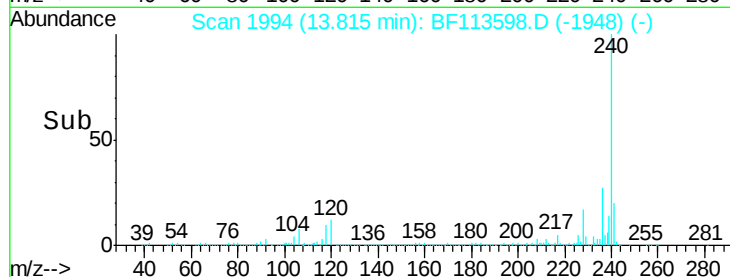


Abundance Ion 240.00 (239.70 to 240.70): E

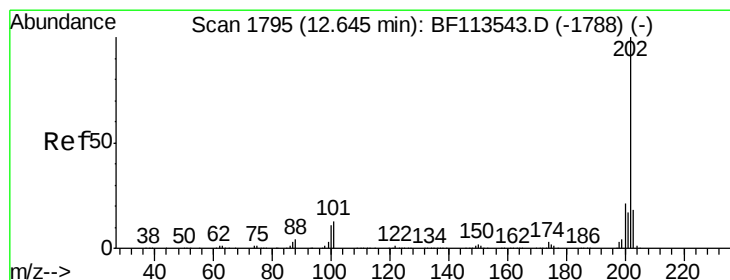
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

13.82



Time--> 13.70 13.80 13.90



#78

Pyrene

Concen: 18.718 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.02 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

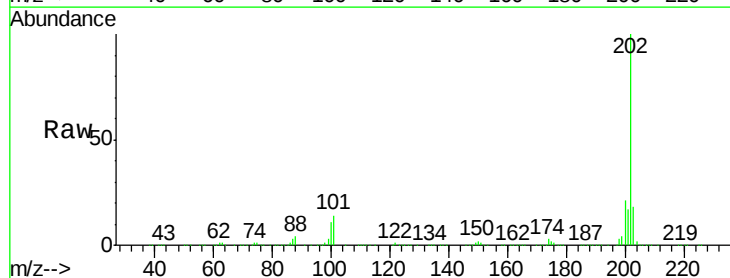
Tgt Ion:202 Resp: 605812

Ion Ratio Lower Upper

202 100

200 20.8 16.8 25.2

203 18.3 14.4 21.6

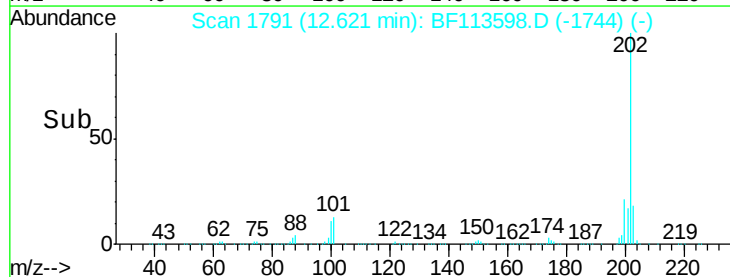


Abundance Ion 202.00 (201.70 to 202.70): E

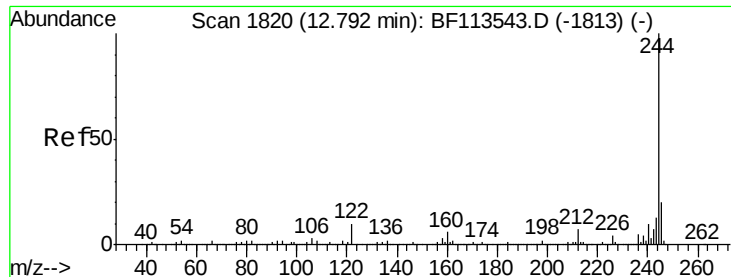
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

12.62



Time--> 12.60 12.65 12.70



#79

Terphenyl-d14

Concen: 71.832 ng

RT: 12.77 min Scan# 1816

Delta R.T. -0.02 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

Instrument :

BNA_F

ClientSampleId :

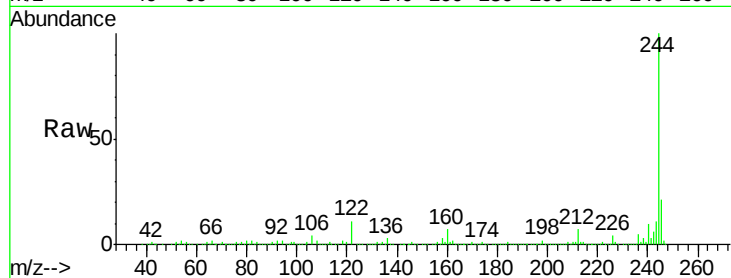
Tot Ion:244 Resp: 1500666

Ion Ratio Lower Upper

244 100

212 6.8 5.5 8.3

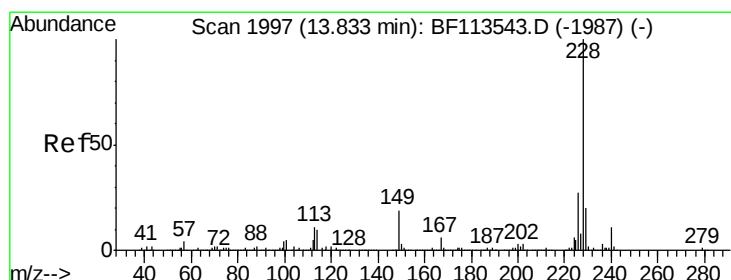
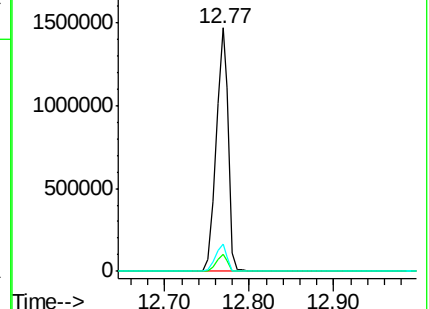
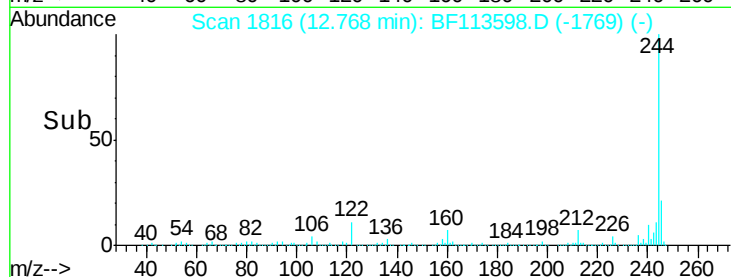
122 11.4 8.6 13.0



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 10.614 ng

RT: 13.80 min Scan# 1992

Delta R.T. -0.03 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

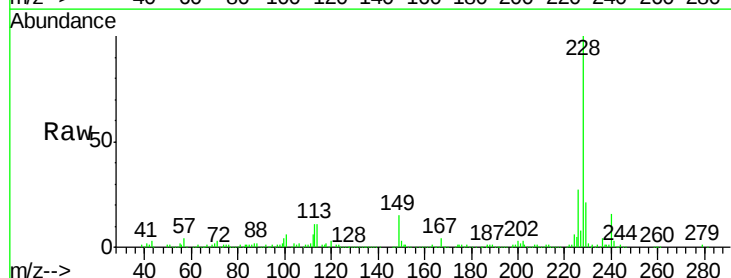
Tgt Ion:228 Resp: 260422

Ion Ratio Lower Upper

228 100

226 27.2 21.8 32.8

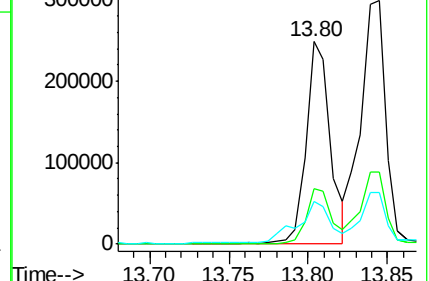
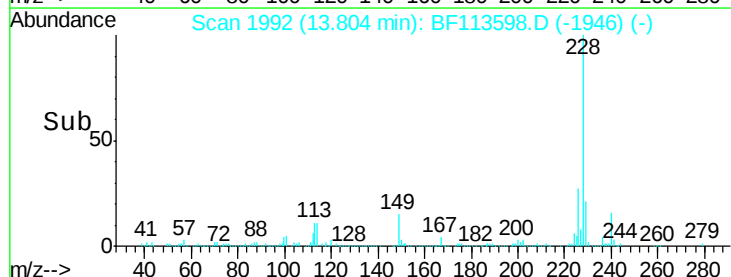
229 20.8 16.2 24.4

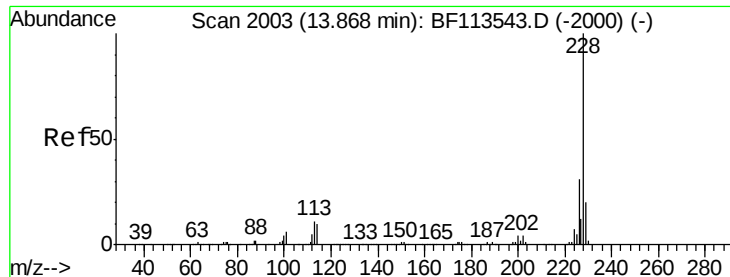


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 13.290 ng

RT: 13.84 min Scan# 1999

Delta R.T. -0.02 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

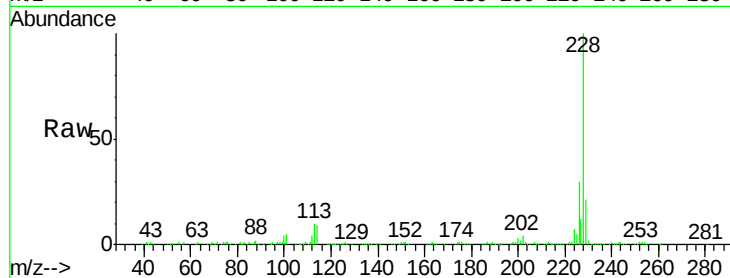
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 330559

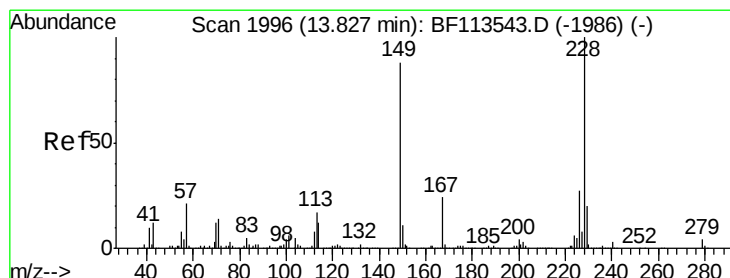
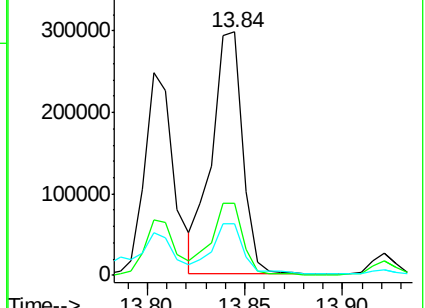
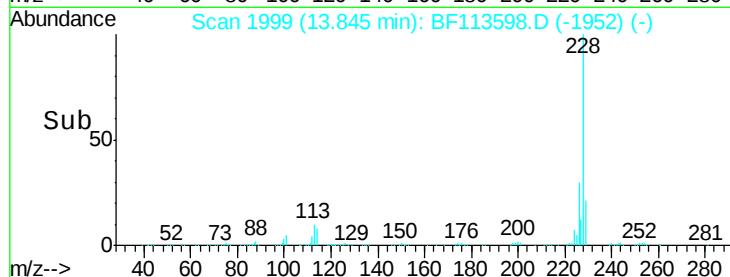
Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.3	36.5
229	21.3	16.3	24.5



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 3.033 ng

RT: 13.80 min Scan# 1991

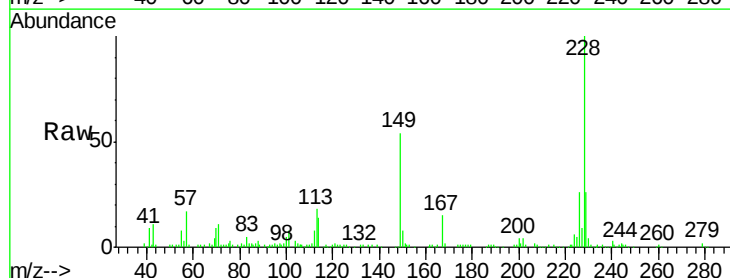
Delta R.T. -0.03 min

Lab File: BF113598.D

Acq: 4 Apr 2019 22:32

Tgt Ion:149 Resp: 48317

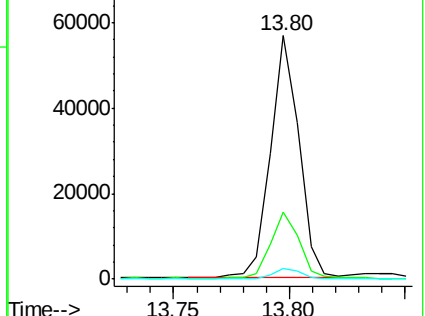
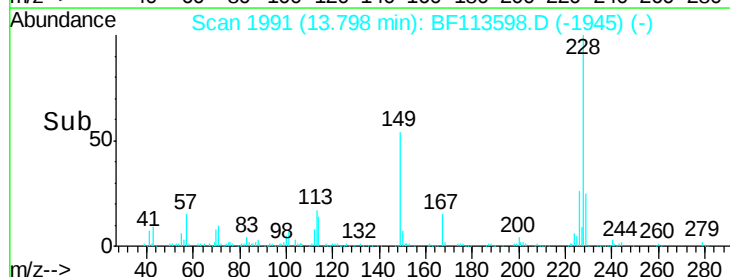
Ion	Ratio	Lower	Upper
149	100		
167	27.5	21.8	32.8
279	4.2	2.9	4.3

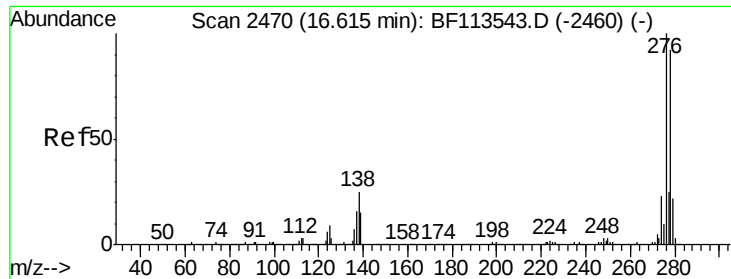


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

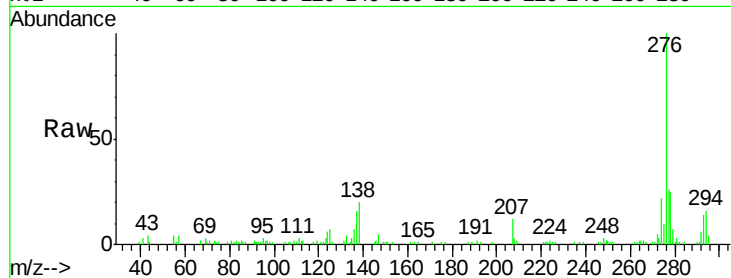




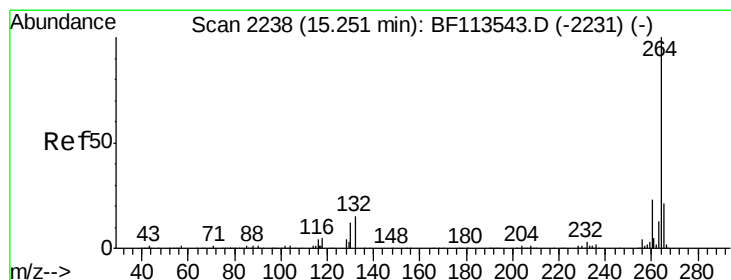
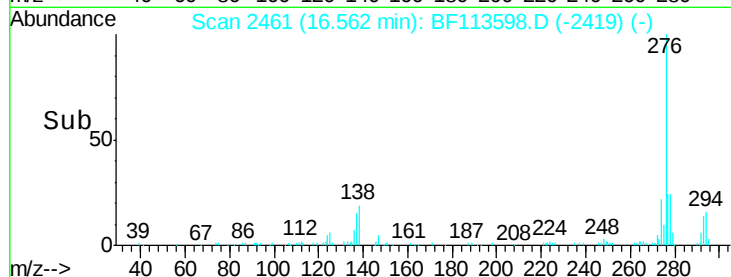
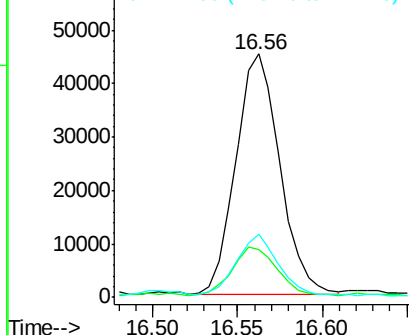
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 3.544 ng
 RT: 16.56 min Scan# 2461
 Delta R.T. -0.05 min
 Lab File: BF113598.D
 Acq: 4 Apr 2019 22:32

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.8	18.1	27.1
277	23.6	20.2	30.4

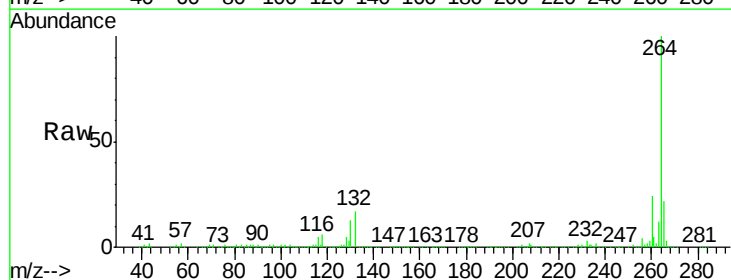


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

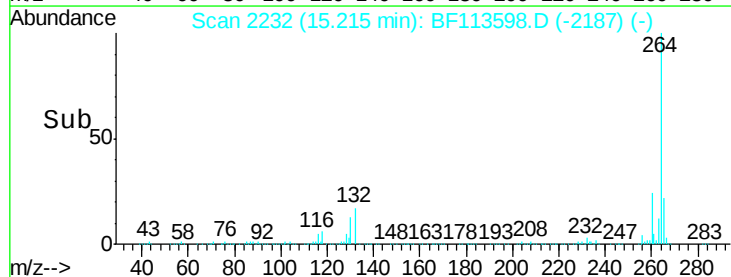
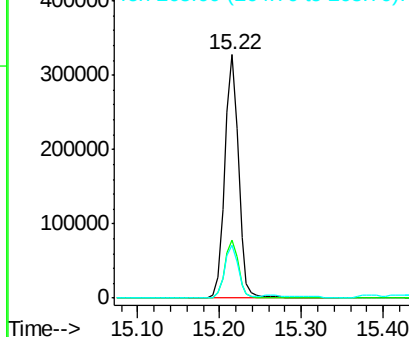


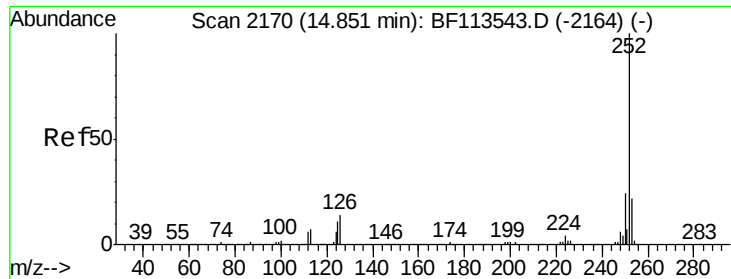
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.22 min Scan# 2232
 Delta R.T. -0.04 min
 Lab File: BF113598.D
 Acq: 4 Apr 2019 22:32

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.1	28.7
265	22.0	17.1	25.7



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

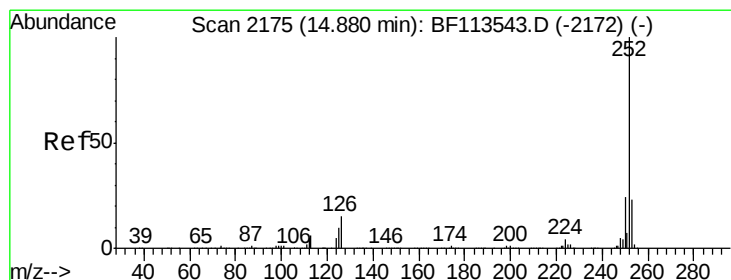
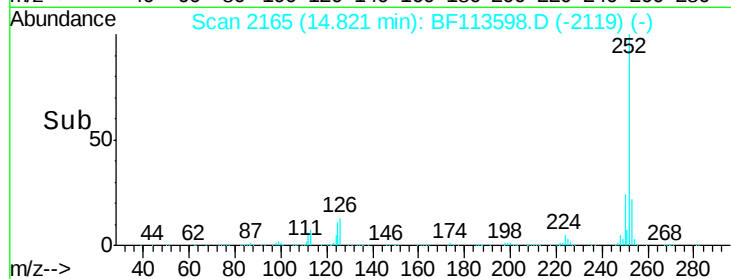
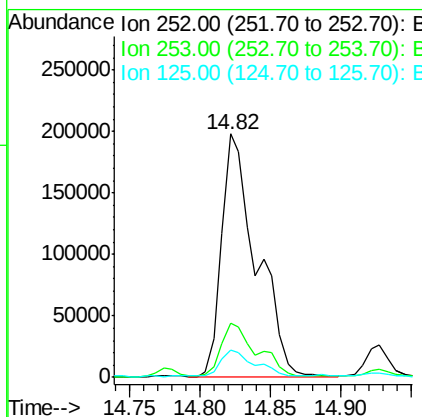
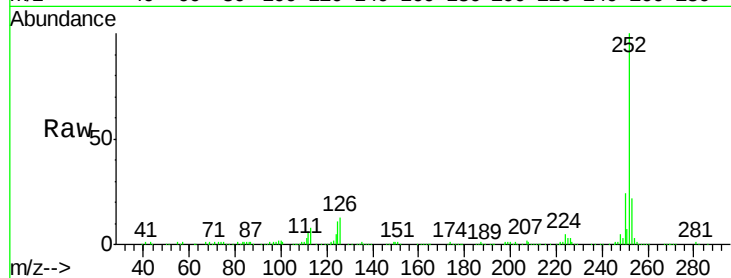




#88
Benzo(b)fluoranthene
Concen: 14.469 ng
RT: 14.82 min Scan# 2165
Delta R.T. -0.03 min
Lab File: BF113598.D
Acq: 4 Apr 2019 22:32

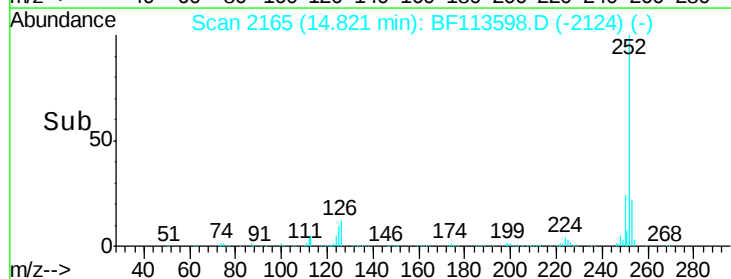
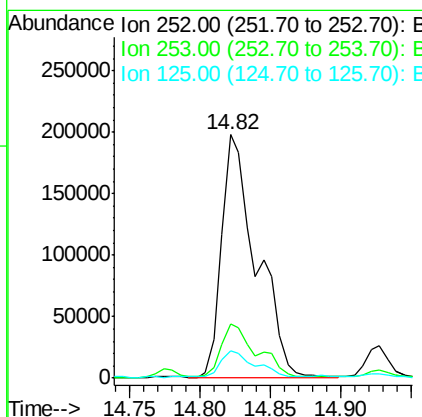
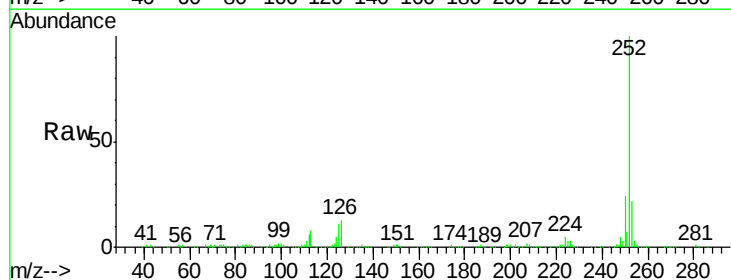
Instrument :
BNA_F
ClientSampled :

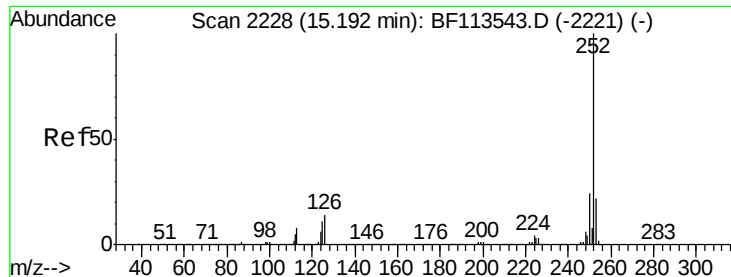
Tot Ion:252 Resp: 340376
Ion Ratio Lower Upper
252 100
253 22.0 18.0 27.0
125 11.0 7.6 11.4



#89
Benzo(k)fluoranthene
Concen: 16.122 ng
RT: 14.82 min Scan# 2165
Delta R.T. -0.06 min
Lab File: BF113598.D
Acq: 4 Apr 2019 22:32

Tgt Ion:252 Resp: 340376
Ion Ratio Lower Upper
252 100
253 22.0 17.7 26.5
125 11.0 7.3 10.9#

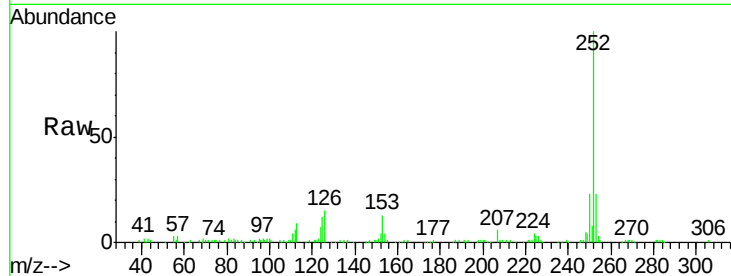




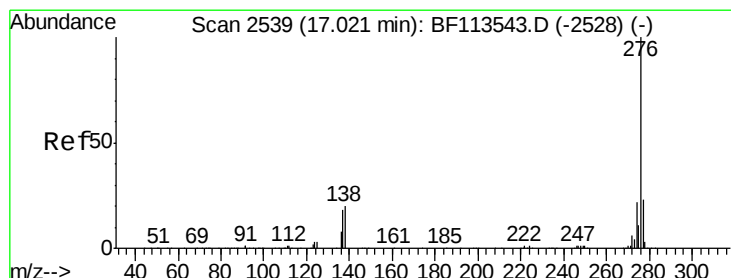
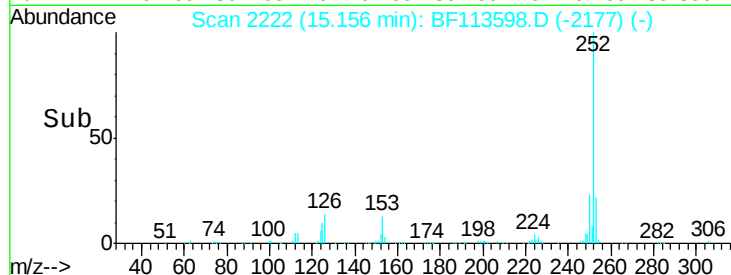
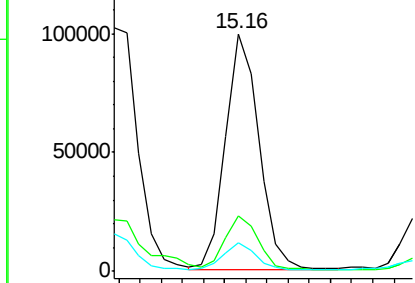
#90
Benzo(a)pyrene
Concen: 5.264 ng
RT: 15.16 min Scan# 2222
Delta R.T. -0.04 min
Lab File: BF113598.D
Acq: 4 Apr 2019 22:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 110034
Ion Ratio Lower Upper
252 100
253 23.3 17.9 26.9
125 11.9 8.8 13.2

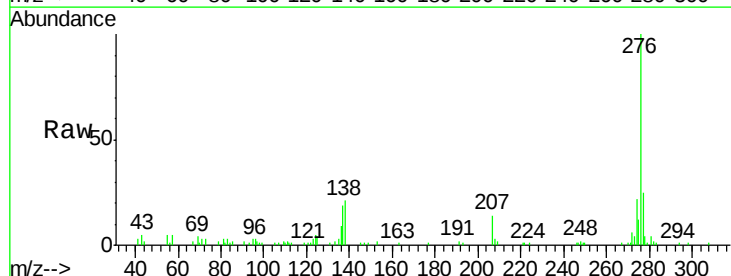


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 3.889 ng
RT: 16.97 min Scan# 2530
Delta R.T. -0.05 min
Lab File: BF113598.D
Acq: 4 Apr 2019 22:32

Tgt Ion:276 Resp: 77603
Ion Ratio Lower Upper
276 100
277 24.5 18.8 28.2
138 20.8 15.6 23.4



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

