

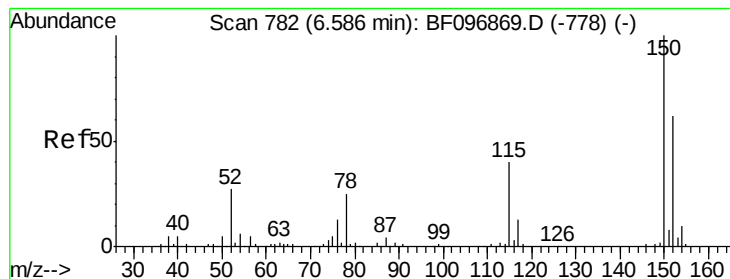
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
 Data File : BF096878.D
 Acq On : 19 Jul 2017 19:03
 Operator : SJ/JU
 Sample : I4243-03 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 20 00:52:54 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 18 13:33:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	113738	20.00	ng	-0.01
21) Naphthalene-d8	7.87	136	505945	20.00	ng	-0.02
38) Acenaphthene-d10	9.62	164	191205	20.00	ng	-0.02
63) Phenanthrene-d10	11.09	188	304901	20.00	ng	-0.01
75) Chrysene-d12	13.72	240	208353	20.00	ng	-0.01
86) Perylene-d12	15.09	264	175214	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.19	112	387865	51.27	ng	-0.01
7) Phenol-d6	6.23	99	418321	46.08	ng	-0.02
23) Nitrobenzene-d5	7.15	82	243041	29.75	ng	-0.02
41) 2,4,6-Tribromophenol	10.40	330	73742	45.18	ng	-0.02
44) 2-Fluorobiphenyl	8.95	172	438360	36.22	ng	-0.02
78) Terphenyl-d14	12.67	244	270178	22.49	ng	-0.02
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.15	70	31634	5.78	ng	# 88
25) Isophorone	7.15	82	242585	15.96	ng	# 67
49) Dimethylphthalate	9.34	163	122329	8.50	ng	100
56) 2,4-Dinitrotoluene	9.62	165	23336	5.82	ng	# 32
70) Phenanthrene	11.12	178	42089	2.54	ng	98
74) Fluoranthene	12.30	202	79224	4.99	ng	97
77) Pyrene	12.52	202	72317	3.82	ng	100
80) Benzo(a)anthracene	13.71	228	36516	2.81	ng	99
82) Chrysene	13.74	228	41233	3.23	ng	96
85) Indeno(1,2,3-cd)pyrene	16.37	276	25853	5.43	ng	98
87) Benzo(b)fluoranthene	14.72	252	75521	7.15	ng	# 96
88) Benzo(k)fluoranthene	14.72	252	75521	7.55	ng	98
89) Benzo(a)pyrene	15.03	252	34923	3.60	ng	# 92
91) Benzo(a,h,i)perylene	16.75	276	35283	3.69	ng	97

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

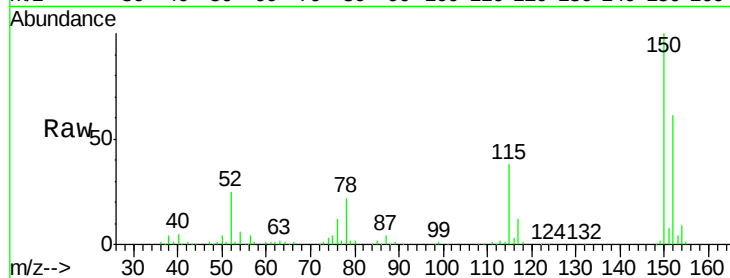


#1

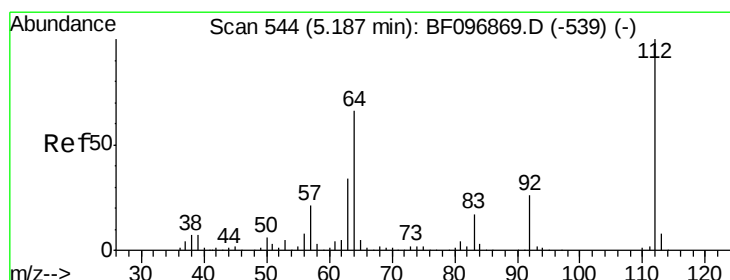
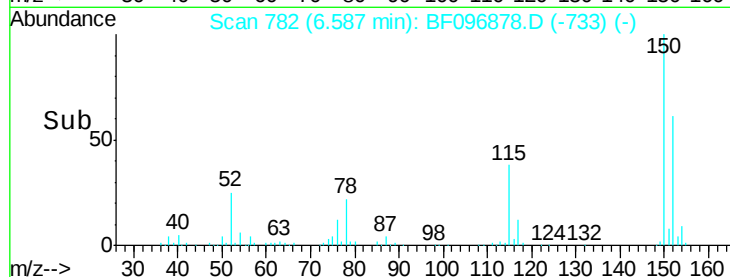
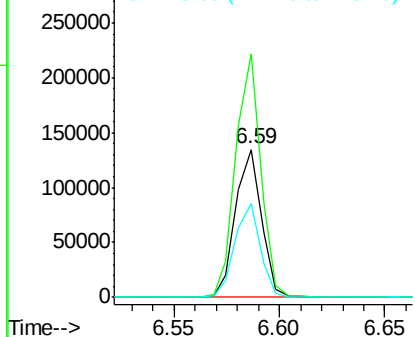
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.59 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF096878.D
Acq: 19 Jul 2017 19:03

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 113738
Ion Ratio Lower Upper
152 100
150 164.4 126.2 189.2
115 63.0 52.2 78.2



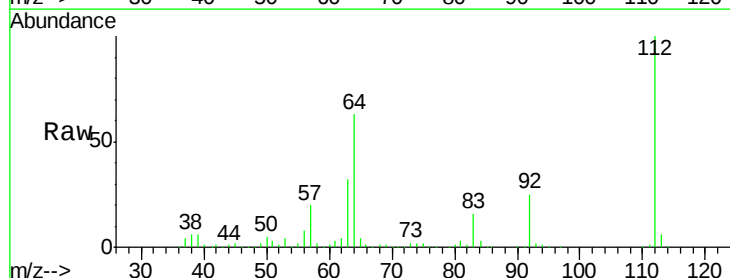
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



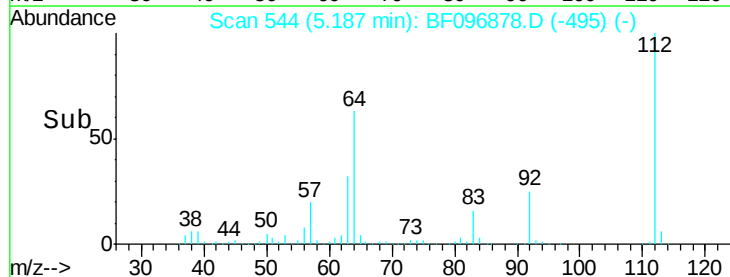
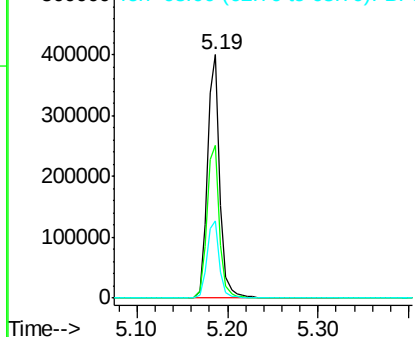
#5

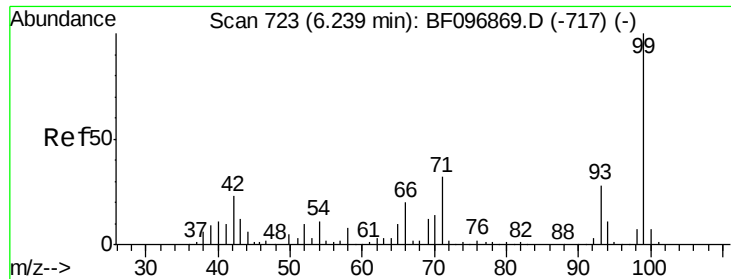
2-Fluorophenol
Concen: 51.27 ng
RT: 5.19 min Scan# 544
Delta R.T. -0.01 min
Lab File: BF096878.D
Acq: 19 Jul 2017 19:03

Tgt Ion:112 Resp: 387865
Ion Ratio Lower Upper
112 100
64 62.6 46.0 69.0
63 31.7 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 46.08 ng

RT: 6.23 min Scan# 722

Delta R.T. -0.02 min

Lab File: BF096878.D

Acq: 19 Jul 2017 19:03

Instrument :

BNA_F

ClientSampleId :

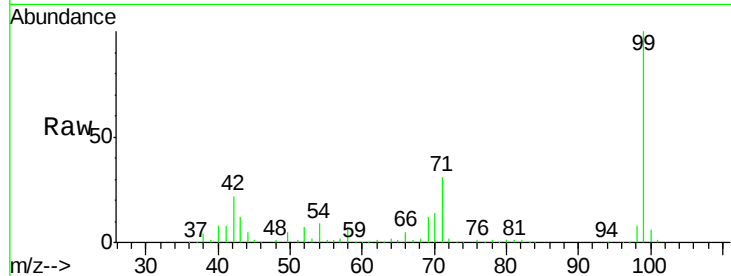
Tot Ion: 99 Resp: 418321

Ion Ratio Lower Upper

99 100

42 21.9 13.5 20.3#

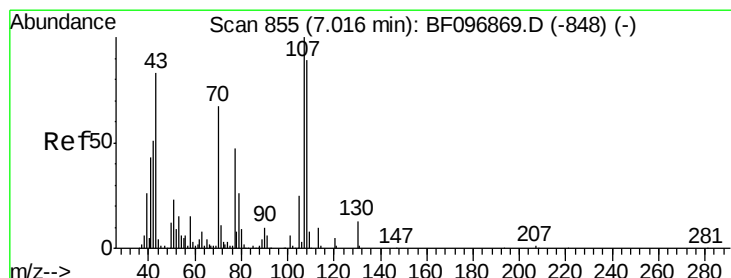
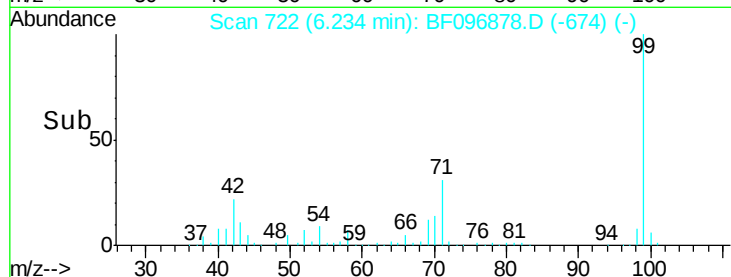
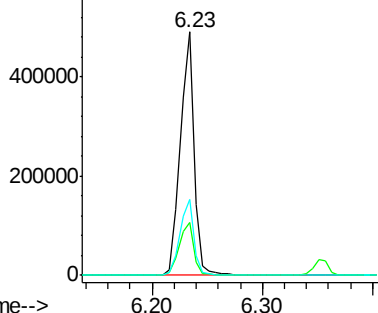
71 31.4 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 5.78 ng

RT: 7.15 min Scan# 877

Delta R.T. 0.12 min

Lab File: BF096878.D

Acq: 19 Jul 2017 19:03

Tgt Ion: 70 Resp: 31634

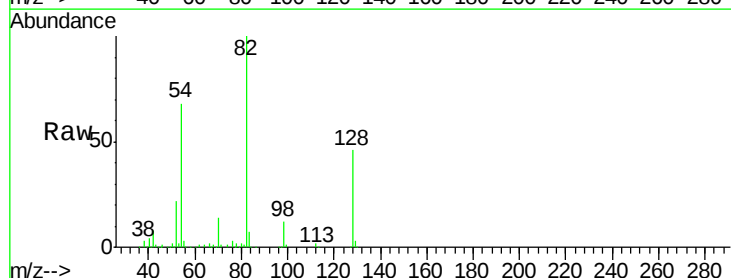
Ion Ratio Lower Upper

70 100

42 60.1 47.2 70.8

101 0.0 7.2 10.8#

130 2.7 15.9 23.9#

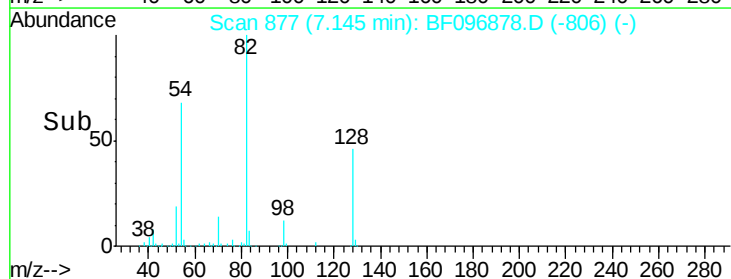
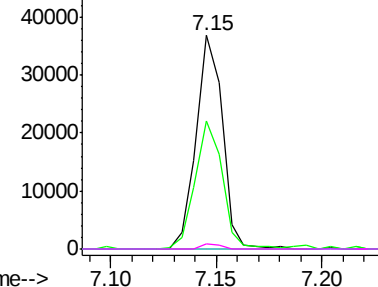


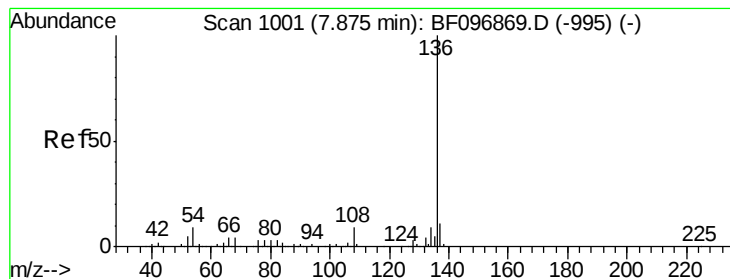
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.87 min Scan# 1000

Delta R.T. -0.02 min

Lab File: BF096878.D

Acq: 19 Jul 2017 19:03

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 505945

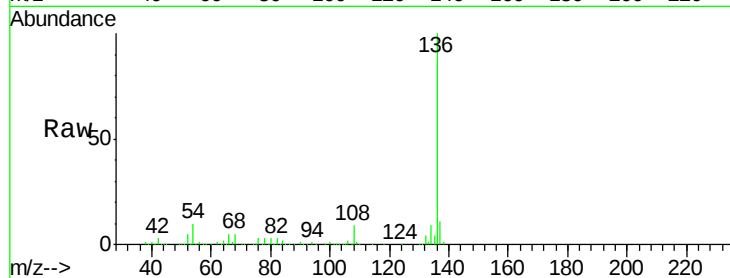
Ion Ratio Lower Upper

136 100

137 10.5 8.5 12.7

54 10.1 4.9 7.3#

68 5.4 4.1 6.1

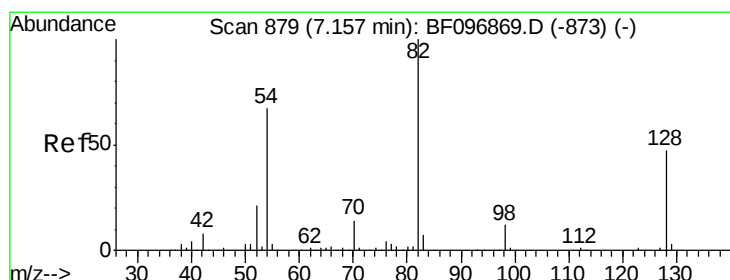
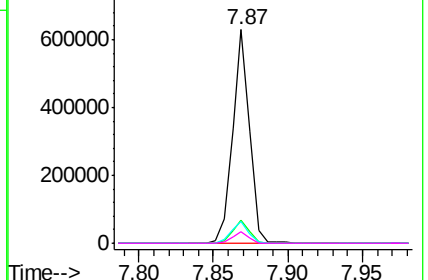
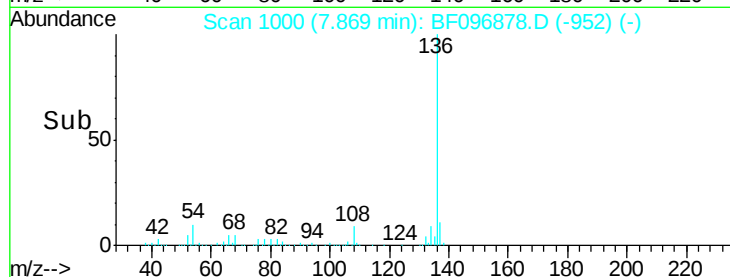


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 29.75 ng

RT: 7.15 min Scan# 877

Delta R.T. -0.02 min

Lab File: BF096878.D

Acq: 19 Jul 2017 19:03

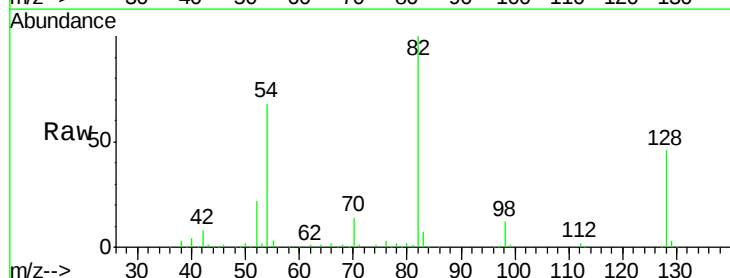
Tgt Ion: 82 Resp: 243041

Ion Ratio Lower Upper

82 100

128 45.7 34.0 51.0

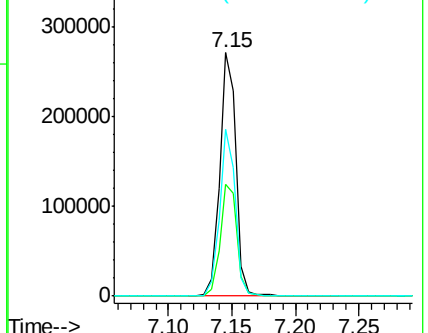
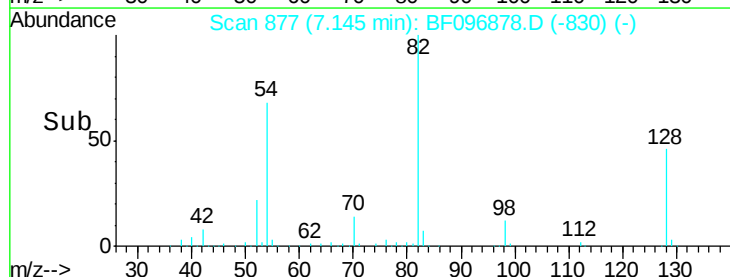
54 68.3 42.2 63.2#

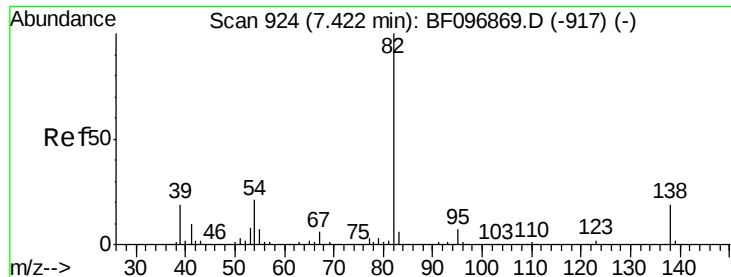


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 15.96 ng

RT: 7.15 min Scan# 877

Delta R.T. -0.29 min

Lab File: BF096878.D

Acq: 19 Jul 2017 19:03

Instrument :

BNA_F

ClientSampleId :

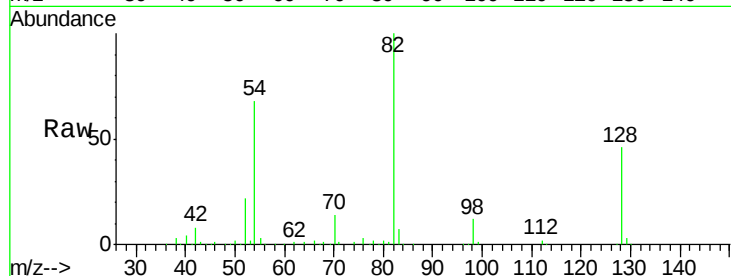
Tot Ion: 82 Resp: 242585

Ion Ratio Lower Upper

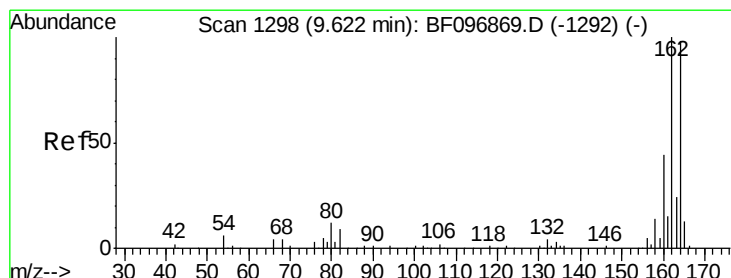
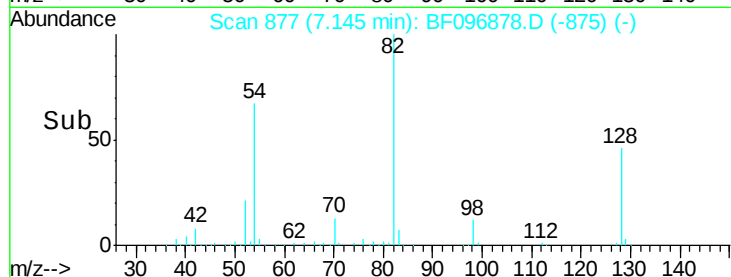
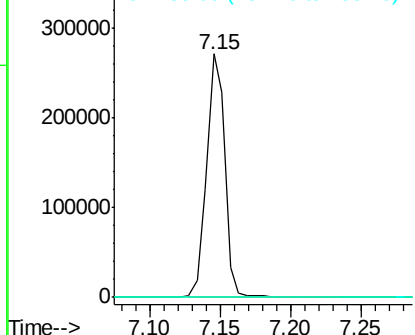
82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.62 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF096878.D

Acq: 19 Jul 2017 19:03

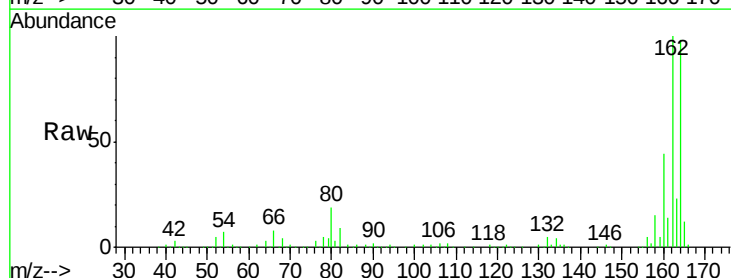
Tgt Ion: 164 Resp: 191205

Ion Ratio Lower Upper

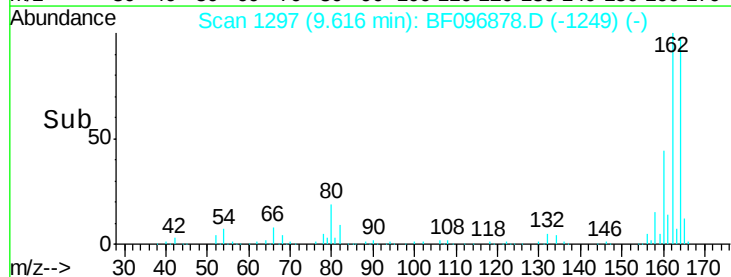
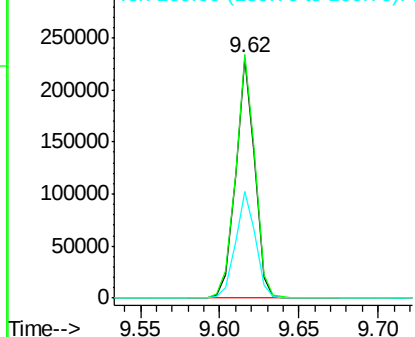
164 100

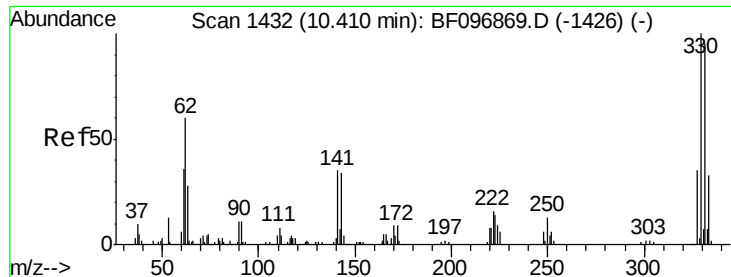
162 101.5 82.6 123.8

160 44.6 36.2 54.2



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

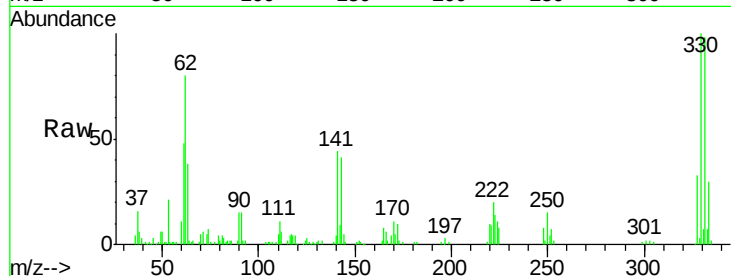




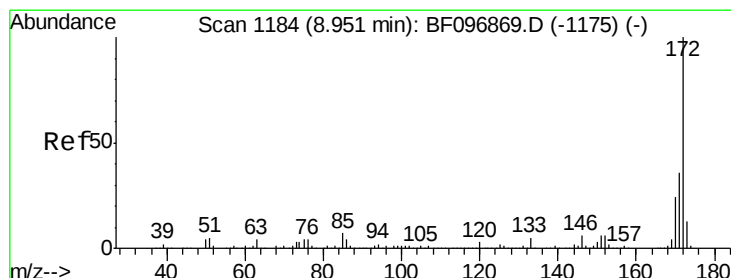
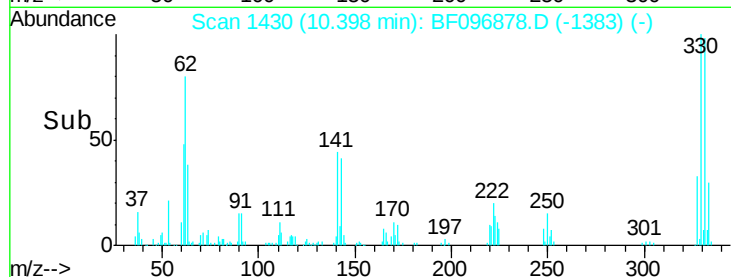
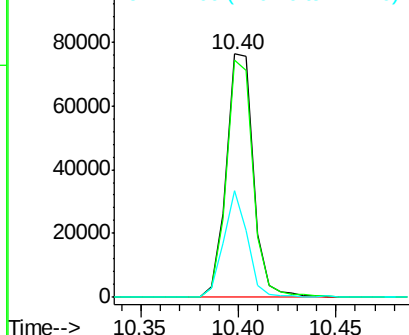
#41
 2,4,6-Tribromophenol
 Concen: 45.18 ng
 RT: 10.40 min Scan# 1430
 Delta R.T. -0.02 min
 Lab File: BF096878.D
 Acq: 19 Jul 2017 19:03

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 73742
 Ion Ratio Lower Upper
 330 100
 332 95.8 76.6 115.0
 141 38.7 31.4 47.2

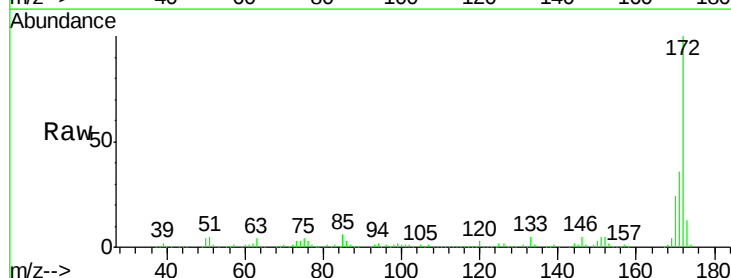


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

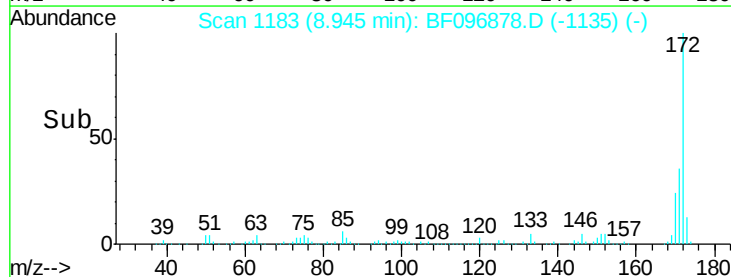
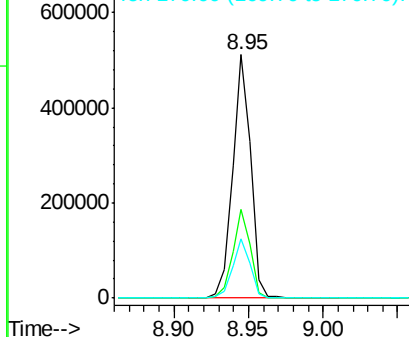


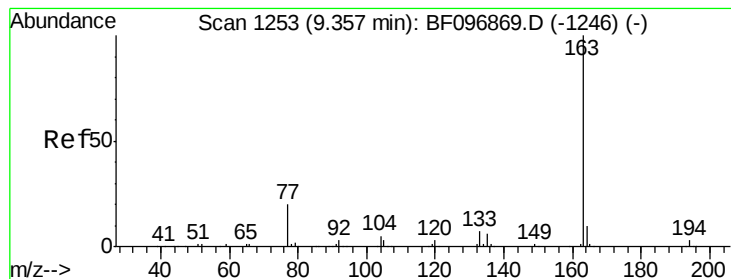
#44
 2-Fluorobiphenyl
 Concen: 36.22 ng
 RT: 8.95 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: BF096878.D
 Acq: 19 Jul 2017 19:03

Tgt Ion:172 Resp: 438360
 Ion Ratio Lower Upper
 172 100
 171 36.3 29.6 44.4
 170 24.5 19.8 29.8



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





#49

Dimethylphthalate

Concen: 8.50 ng

RT: 9.34 min Scan# 1250

Delta R.T. -0.03 min

Lab File: BF096878.D

Acq: 19 Jul 2017 19:03

Instrument :

BNA_F

ClientSampleId :

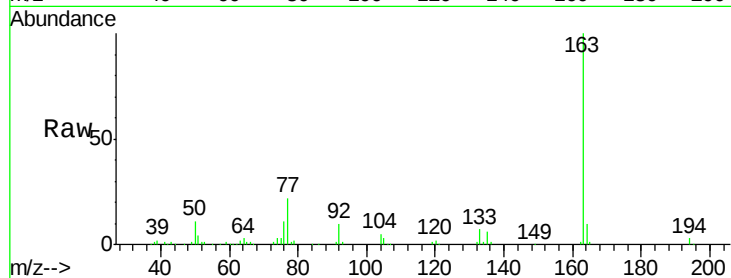
Tot Ion:163 Resp: 122329

Ion Ratio Lower Upper

163 100

194 3.0 2.6 4.0

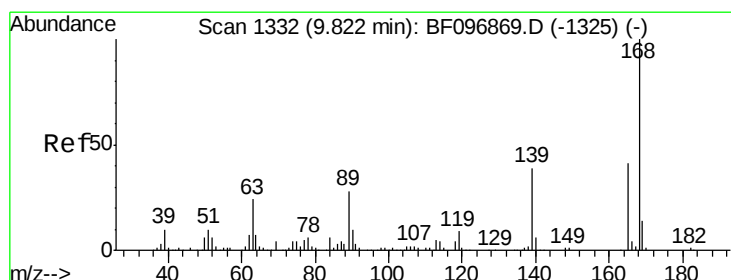
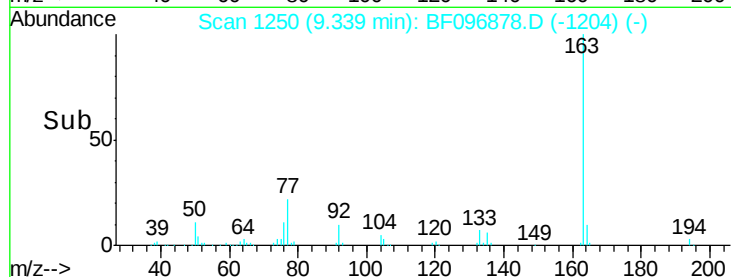
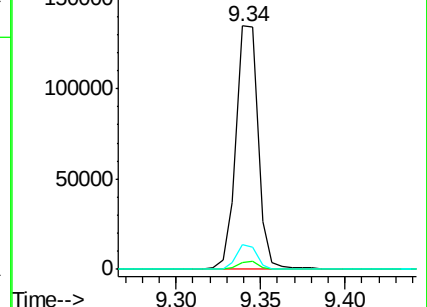
164 10.4 8.4 12.6



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



#56

2,4-Dinitrotoluene

Concen: 5.82 ng

RT: 9.62 min Scan# 1297

Delta R.T. -0.21 min

Lab File: BF096878.D

Acq: 19 Jul 2017 19:03

Tgt Ion:165 Resp: 23336

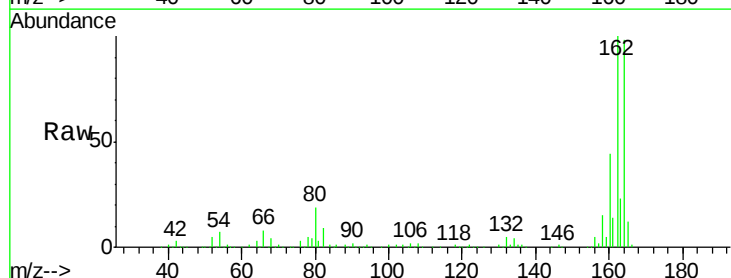
Ion Ratio Lower Upper

165 100

63 0.0 25.4 38.0#

89 1.3 46.4 69.6#

182 0.0 1.8 2.6#

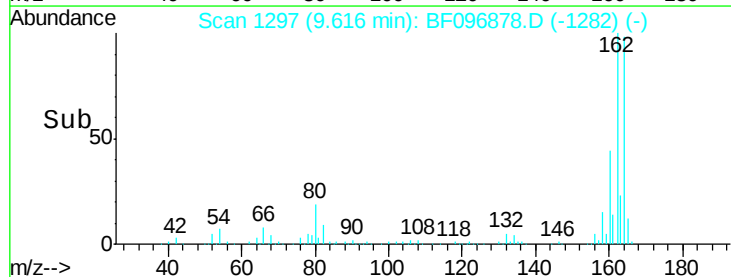
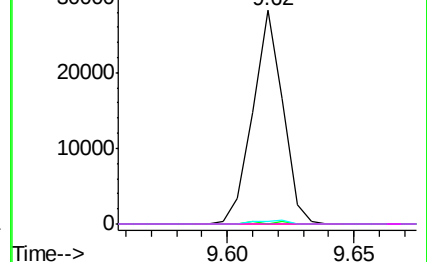


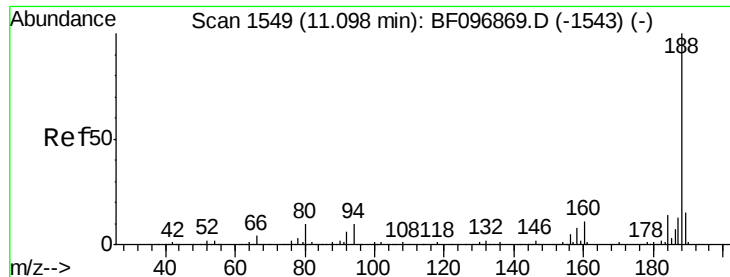
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

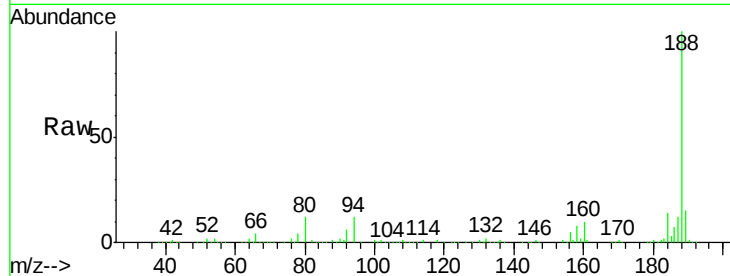




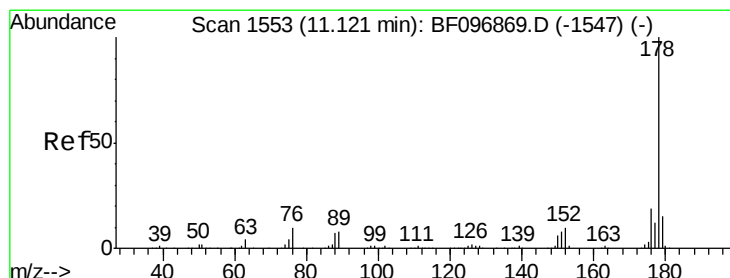
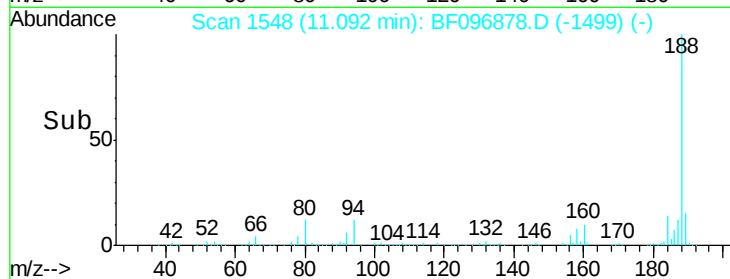
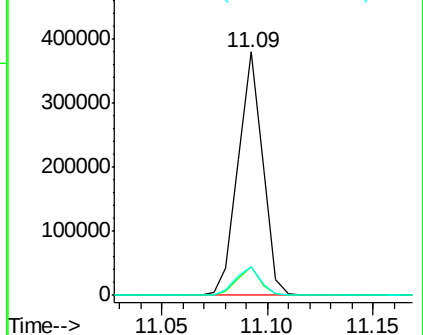
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.09 min Scan# 1548
Delta R.T. -0.01 min
Lab File: BF096878.D
Acq: 19 Jul 2017 19:03

Instrument :
BNA_F
ClientSampled :

Tot Ion:188 Resp: 304901
Ion Ratio Lower Upper
188 100
94 11.6 9.4 14.2
80 11.6 10.2 15.2

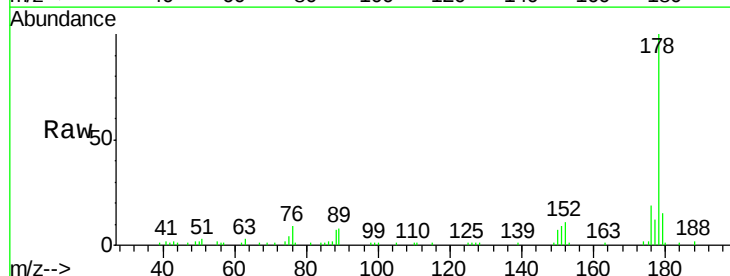


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

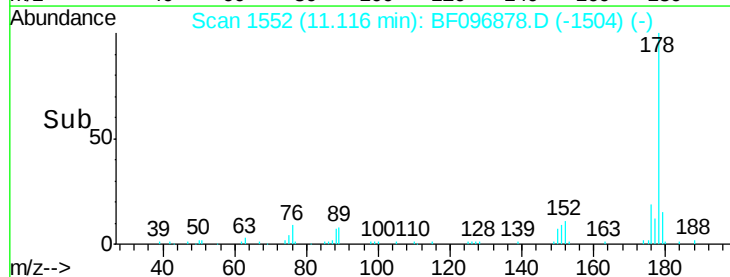
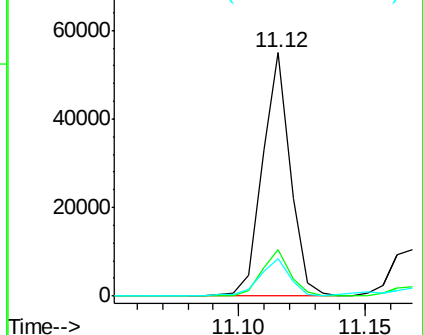


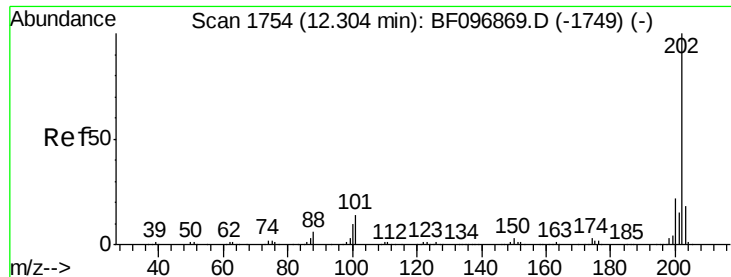
#70
Phenanthrene
Concen: 2.54 ng
RT: 11.12 min Scan# 1552
Delta R.T. -0.02 min
Lab File: BF096878.D
Acq: 19 Jul 2017 19:03

Tgt Ion:178 Resp: 42089
Ion Ratio Lower Upper
178 100
176 19.2 16.2 24.4
179 15.3 12.6 19.0



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

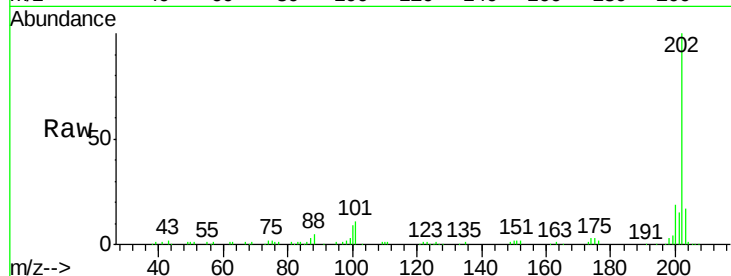




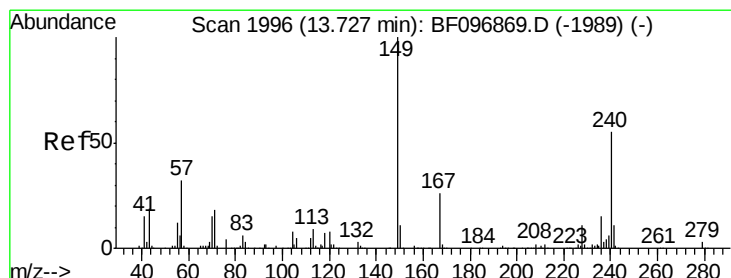
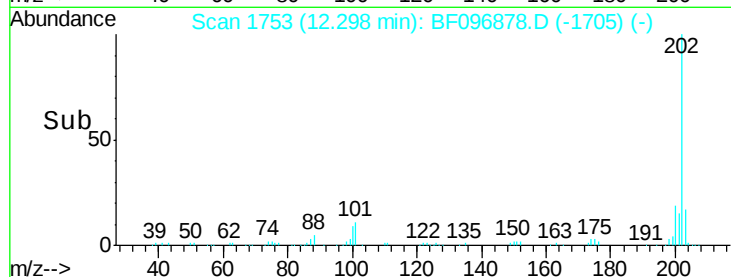
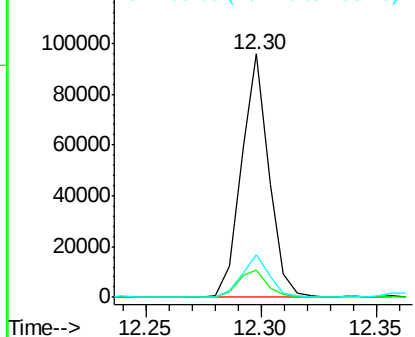
#74
Fluoranthene
Concen: 4.99 ng
RT: 12.30 min Scan# 1753
Delta R.T. -0.02 min
Lab File: BF096878.D
Acq: 19 Jul 2017 19:03

Instrument :
BNA_F
ClientSampleId :

Tot Ion:202 Resp: 79224
Ion Ratio Lower Upper
202 100
101 11.3 0.0 33.2
203 17.3 0.0 38.1

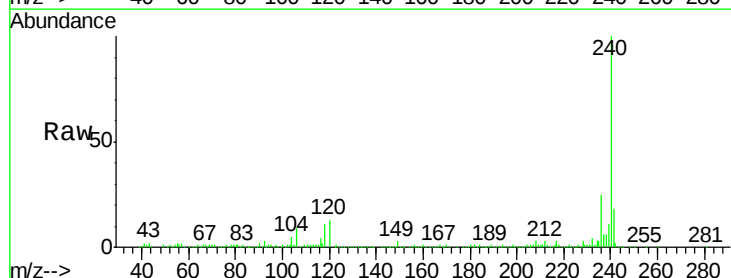


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

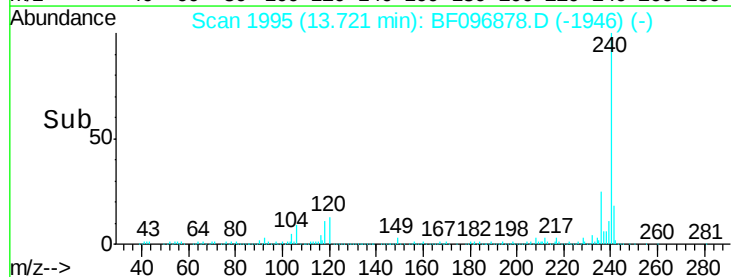
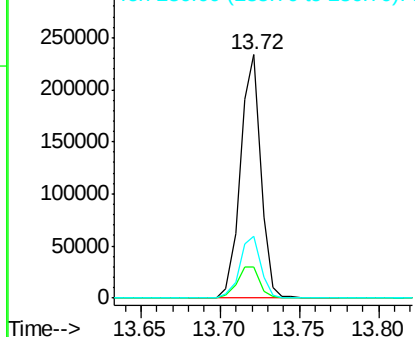


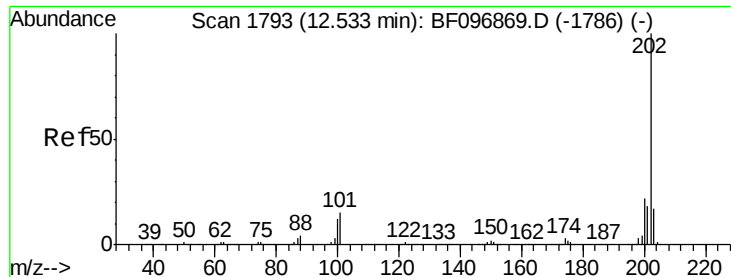
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.72 min Scan# 1995
Delta R.T. -0.01 min
Lab File: BF096878.D
Acq: 19 Jul 2017 19:03

Tgt Ion:240 Resp: 208353
Ion Ratio Lower Upper
240 100
120 12.8 5.8 8.8#
236 25.4 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 3.82 ng

RT: 12.52 min Scan# 1791

Delta R.T. -0.02 min

Lab File: BF096878.D

Acq: 19 Jul 2017 19:03

Instrument :

BNA_F

ClientSampleId :

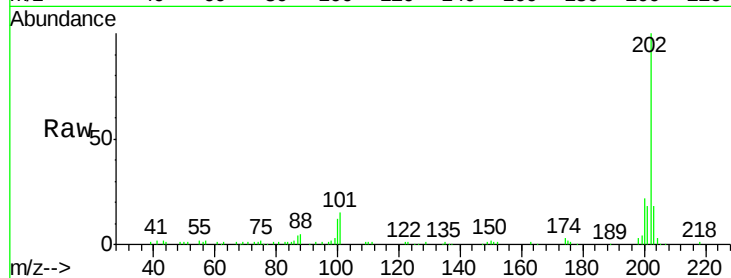
Tot Ion:202 Resp: 72317

Ion Ratio Lower Upper

202 100

200 22.3 17.6 26.4

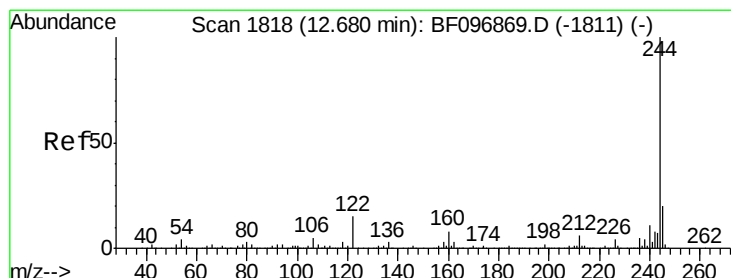
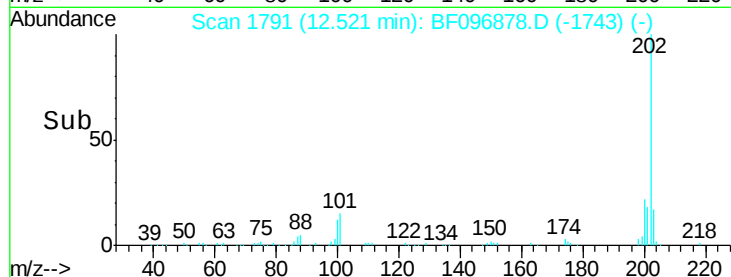
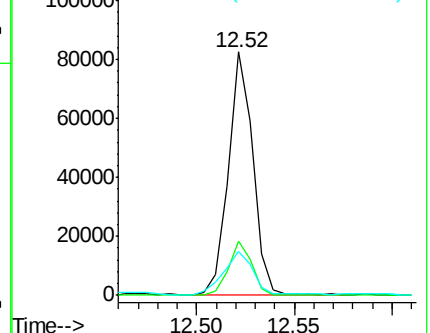
203 18.0 14.4 21.6



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



#78

Terphenyl-d14

Concen: 22.49 ng

RT: 12.67 min Scan# 1817

Delta R.T. -0.02 min

Lab File: BF096878.D

Acq: 19 Jul 2017 19:03

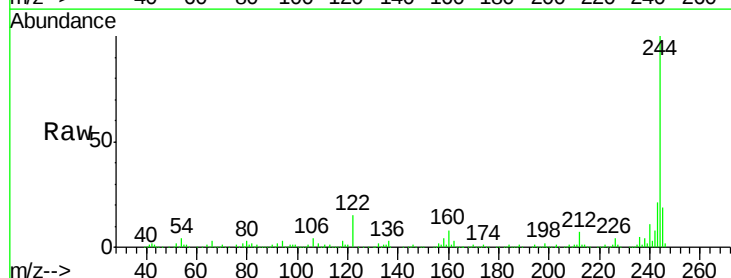
Tgt Ion:244 Resp: 270178

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

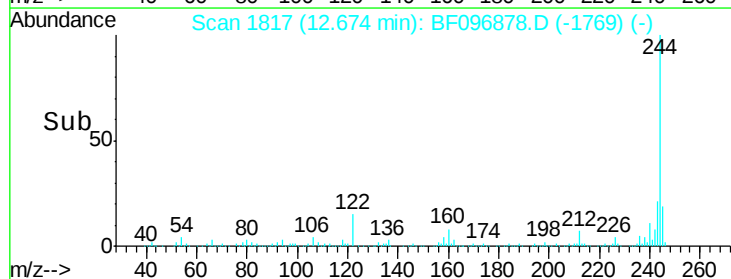
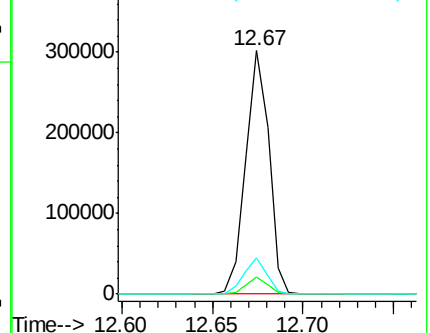
122 14.8 10.3 15.5

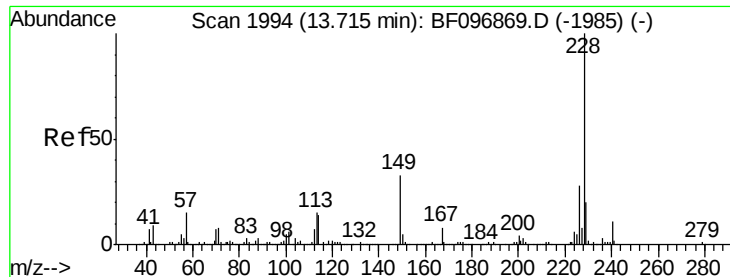


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 2.81 ng

RT: 13.71 min Scan# 1993

Delta R.T. -0.01 min

Lab File: BF096878.D

Acq: 19 Jul 2017 19:03

Instrument :

BNA_F

ClientSampleId :

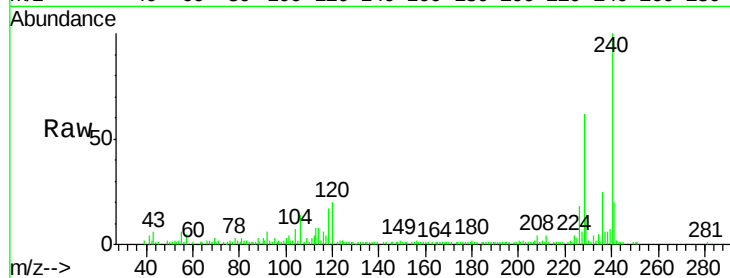
Tot Ion:228 Resp: 36516

Ion Ratio Lower Upper

228 100

226 28.5 22.6 33.8

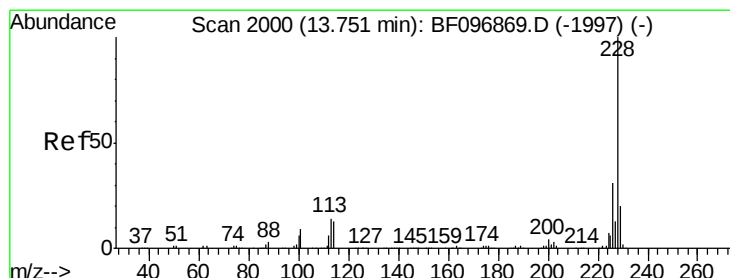
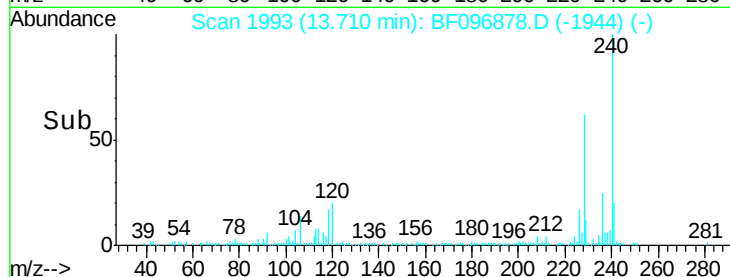
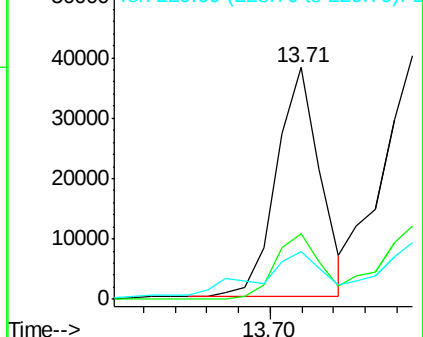
229 20.8 16.3 24.5



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



#82

Chrysene

Concen: 3.23 ng

RT: 13.74 min Scan# 1999

Delta R.T. -0.02 min

Lab File: BF096878.D

Acq: 19 Jul 2017 19:03

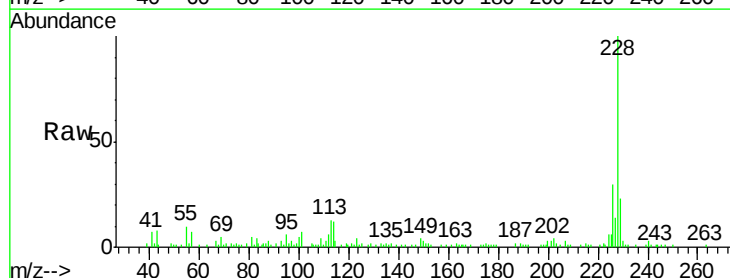
Tgt Ion:228 Resp: 41233

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

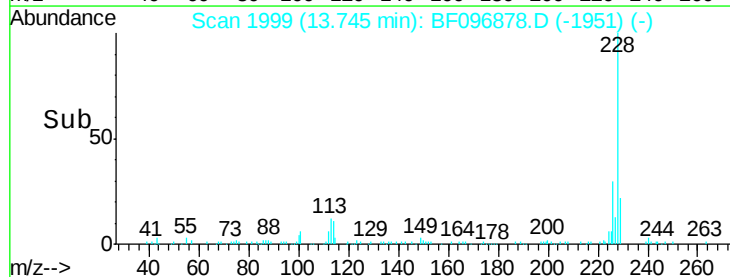
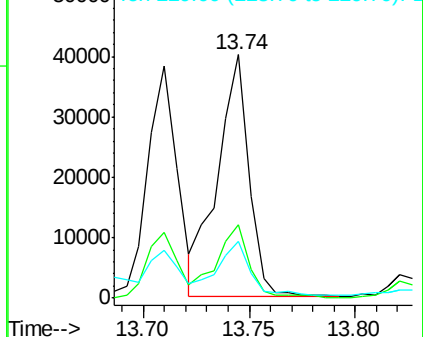
229 23.1 15.8 23.6

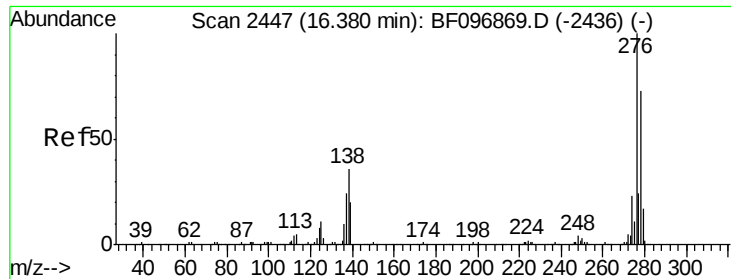


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 5.43 ng

RT: 16.37 min Scan# 2445

Delta R.T. -0.02 min

Lab File: BF096878.D

Acq: 19 Jul 2017 19:03

Instrument :

BNA_F

ClientSampleId :

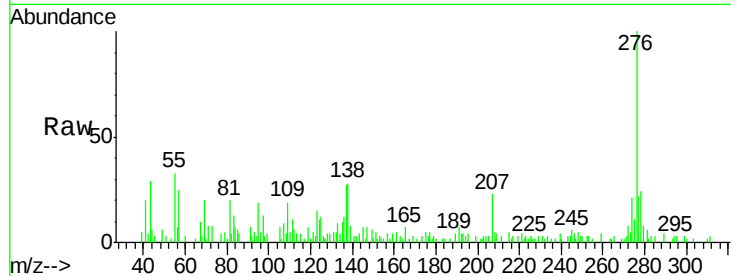
Tot Ion:276 Resp: 25853

Ion Ratio Lower Upper

276 100

138 34.5 27.8 41.6

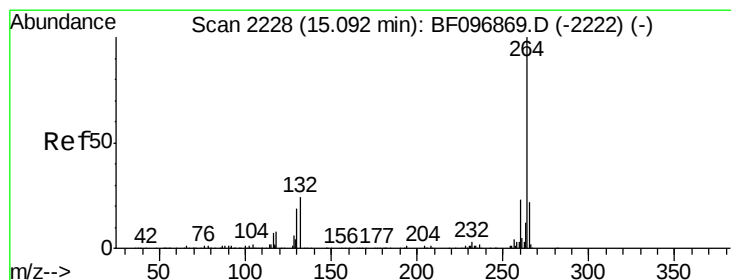
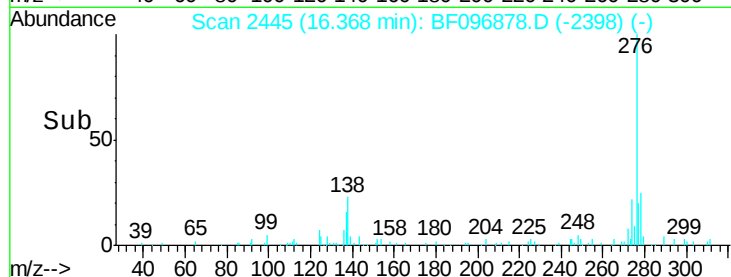
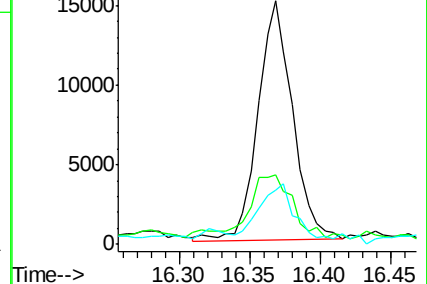
277 28.0 20.2 30.4



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.09 min Scan# 2228

Delta R.T. -0.01 min

Lab File: BF096878.D

Acq: 19 Jul 2017 19:03

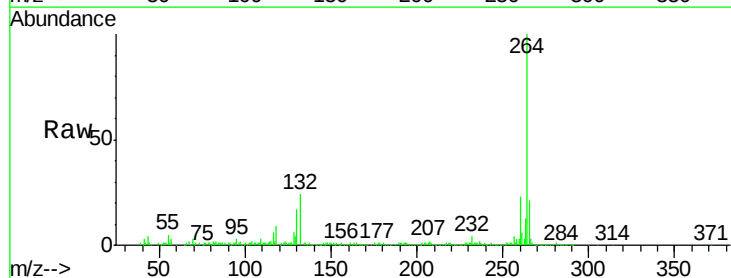
Tgt Ion:264 Resp: 175214

Ion Ratio Lower Upper

264 100

260 22.9 19.5 29.3

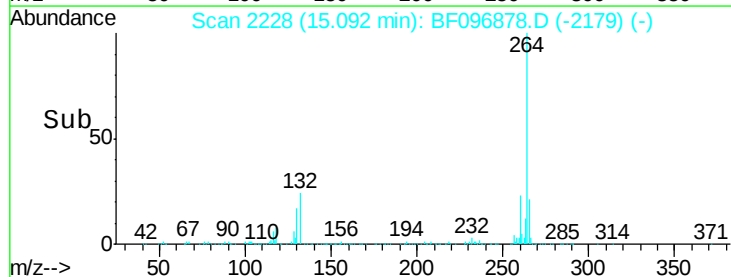
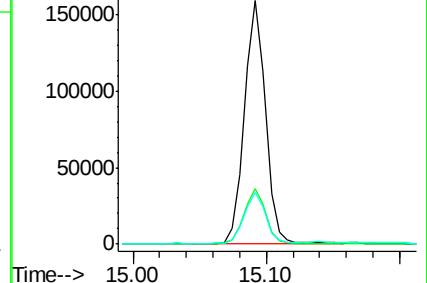
265 21.4 17.2 25.8

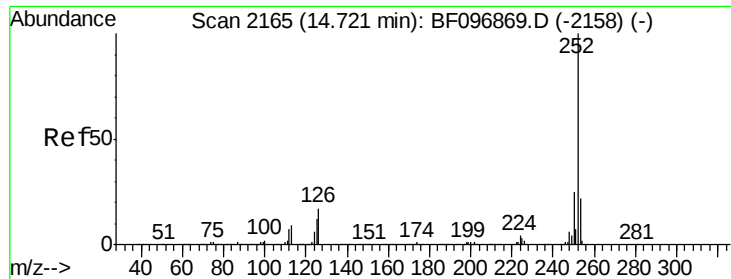


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 7.15 ng

RT: 14.72 min Scan# 2164

Delta R.T. -0.01 min

Lab File: BF096878.D

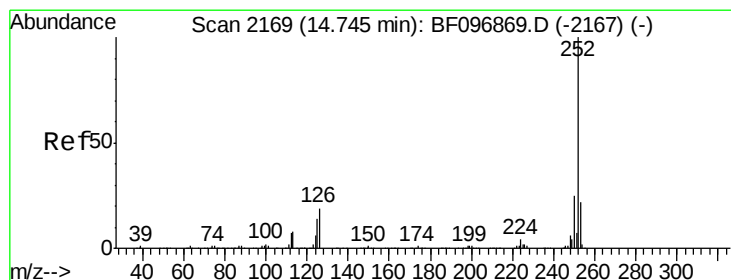
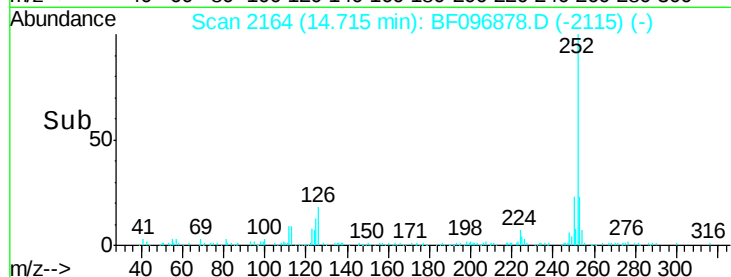
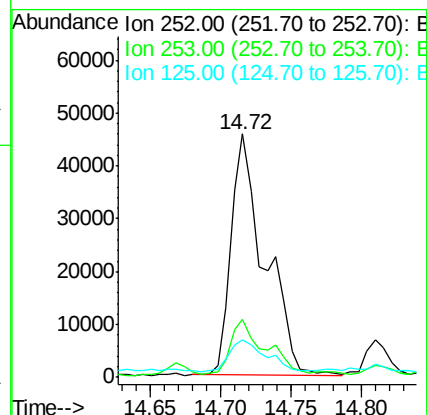
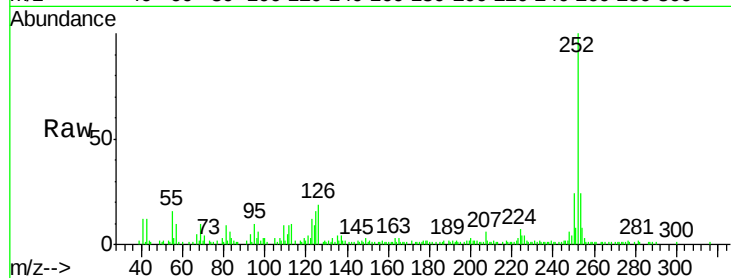
Acq: 19 Jul 2017 19:03

Instrument :

BNA_F

ClientSampleId :

Tot Ion:252	Resp:	75521
Ion Ratio	Lower	Upper
252	100	
253	23.7	18.1 27.1
125	15.5	9.8 14.8#



#88

Benzo(k)fluoranthene

Concen: 7.55 ng

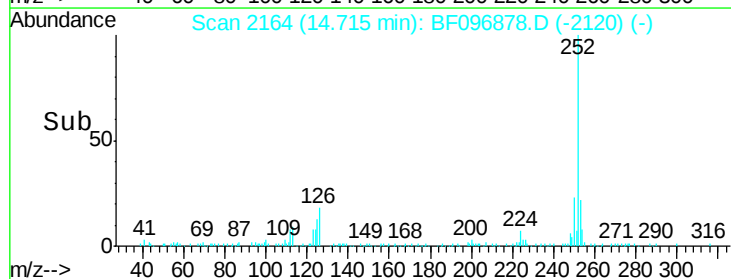
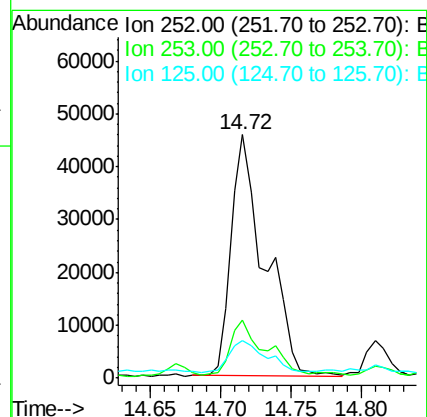
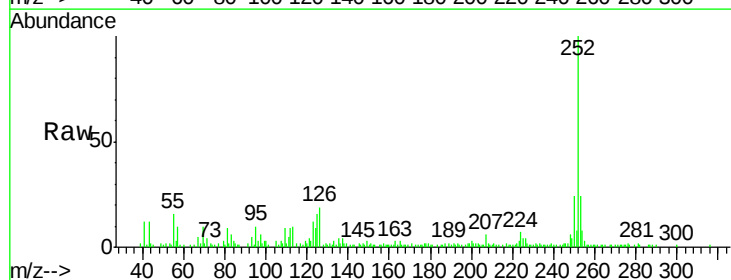
RT: 14.72 min Scan# 2164

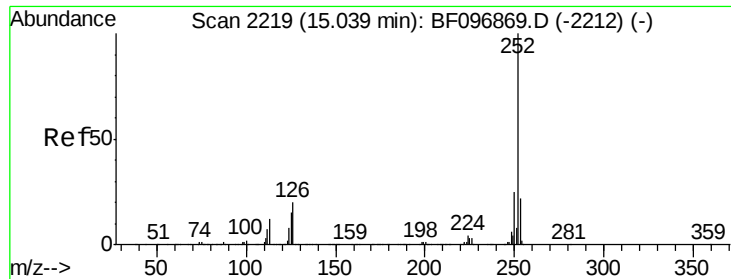
Delta R.T. -0.04 min

Lab File: BF096878.D

Acq: 19 Jul 2017 19:03

Tgt Ion:252	Resp:	75521
Ion Ratio	Lower	Upper
252	100	
253	23.7	18.4 27.6
125	15.5	13.1 19.7

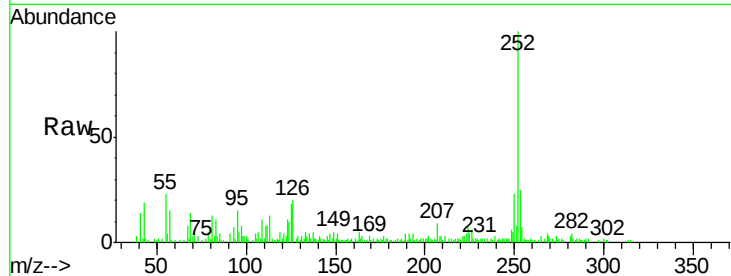




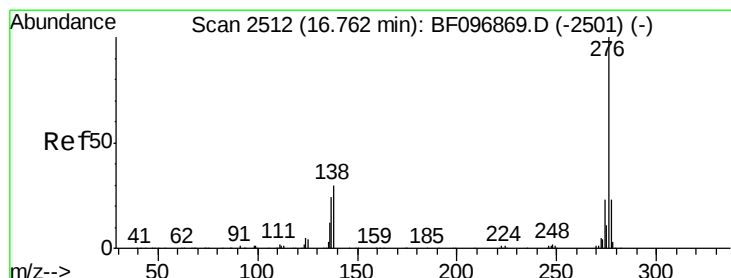
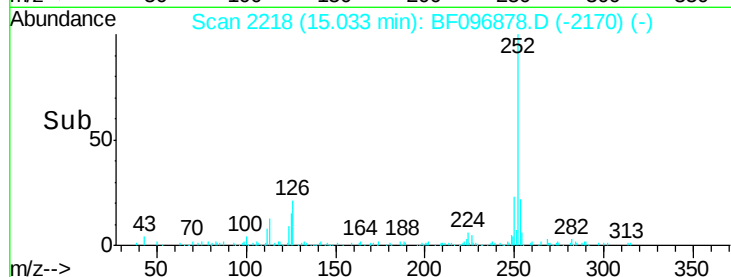
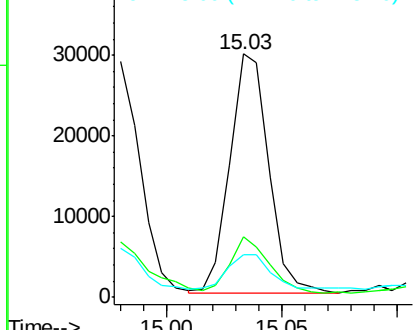
#89
Benzo(a)pyrene
Concen: 3.60 ng
RT: 15.03 min Scan# 2218
Delta R.T. -0.02 min
Lab File: BF096878.D
Acq: 19 Jul 2017 19:03

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.1	17.5	26.3
125	17.6	11.0	16.4

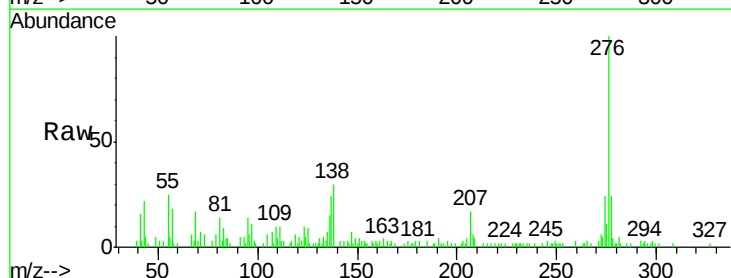


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 3.69 ng
RT: 16.75 min Scan# 2510
Delta R.T. -0.03 min
Lab File: BF096878.D
Acq: 19 Jul 2017 19:03

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.6	28.0
138	30.1	25.4	38.0



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

