

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF071717\
 Data File : BF096811.D
 Acq On : 17 Jul 2017 11:28
 Operator : SJ/JU
 Sample : I4172-14RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-05-WSW

Quant Time: Jul 17 12:19:33 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 13 14:49:34 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.61	152	90047	20.00	ng	-0.02
21) Naphthalene-d8	7.89	136	372351	20.00	ng	-0.03
38) Acenaphthene-d10	9.63	164	171952	20.00	ng	-0.04
63) Phenanthrene-d10	11.11	188	309241	20.00	ng	-0.04
75) Chrysene-d12	13.73	240	216827	20.00	ng	-0.04
86) Perylene-d12	15.10	264	151362	20.00	ng	-0.05

System Monitoring Compounds

5) 2-Fluorophenol	5.20	112	98060	16.37	ng	-0.03
7) Phenol-d6	6.25	99	120590	16.78	ng	-0.03
23) Nitrobenzene-d5	7.16	82	65144	10.84	ng	-0.04
41) 2,4,6-Tribromophenol	10.42	330	19981	13.61	ng	-0.04
44) 2-Fluorobiphenyl	8.96	172	123107	11.31	ng	-0.04
78) Terphenyl-d14	12.69	244	112648	9.01	ng	-0.05

Target Compounds

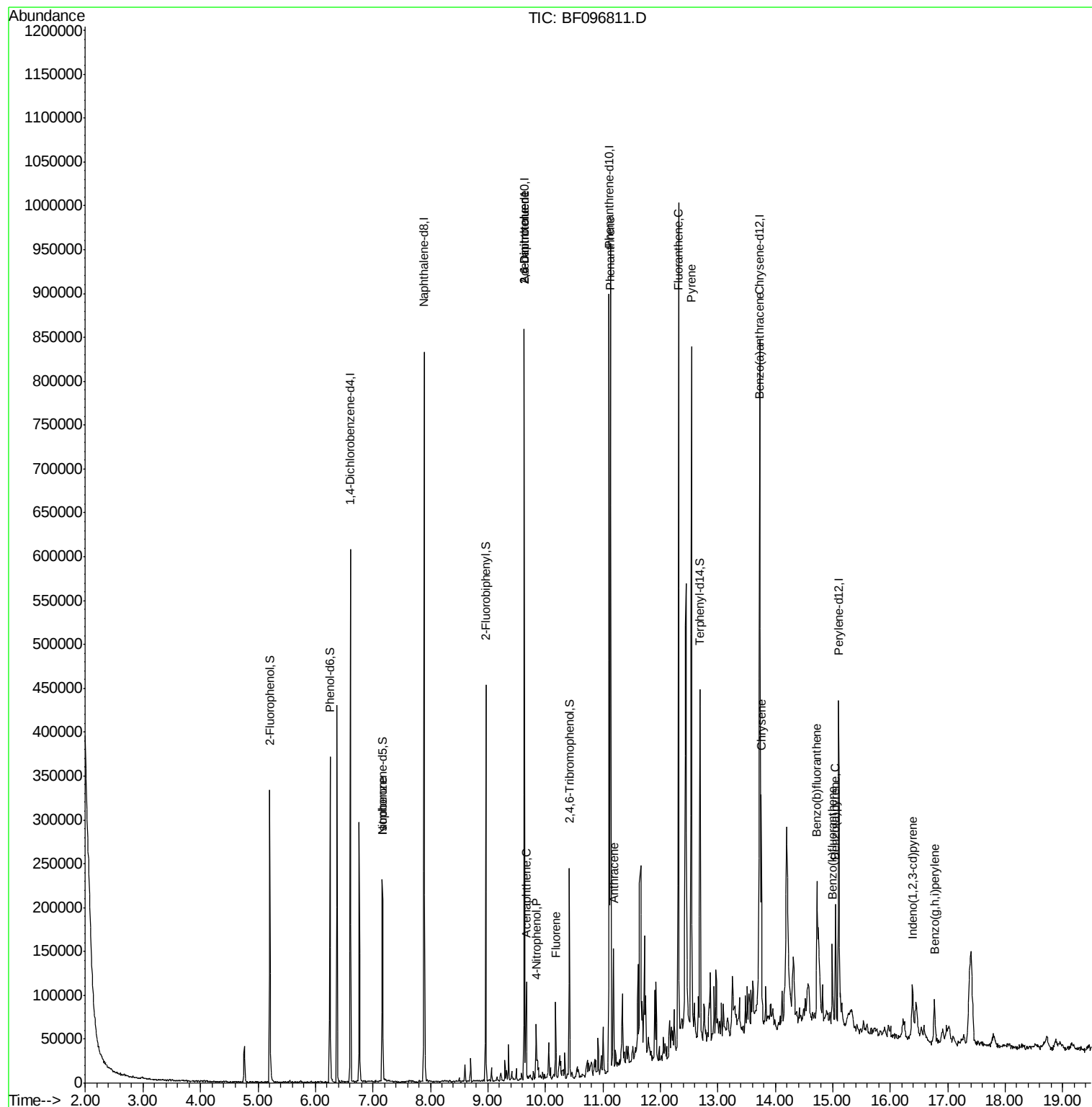
						Qvalue
25) Isophorone	7.16	82	64244	5.745	ng	# 67
50) 2,6-Dinitrotoluene	9.63	165	22069	7.869	ng	# 31
51) Acenaphthene	9.67	154	22863	2.237	ng	94
55) 4-Nitrophenol	9.84	139	7040	2.901	ng	# 25
56) 2,4-Dinitrotoluene	9.63	165	22069	6.124	ng	# 31
57) Fluorene	10.18	166	22127	2.091	ng	96
70) Phenanthrene	11.13	178	323194	19.221	ng	98
71) Anthracene	11.19	178	53609	3.153	ng	99
74) Fluoranthene	12.32	202	341693	21.231	ng	98
77) Pyrene	12.54	202	305013	15.500	ng	98
80) Benzo(a)anthracene	13.72	228	95632	7.079	ng	99
82) Chrysene	13.76	228	86561	6.508	ng	97
85) Indeno(1,2,3-cd)pyrene	16.39	276	36430	6.170	ng	97
87) Benzo(b)fluoranthene	14.73	252	99603	10.911	ng	97
88) Benzo(k)fluoranthene	14.99	252	34574	4.000	ng	96
89) Benzo(a)pyrene	15.04	252	56218	6.714	ng	97
91) Benzo(a,h,i)perylene	16.77	276	35134	4.259	ng	90

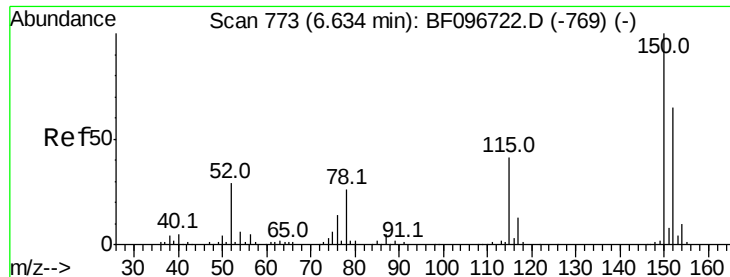
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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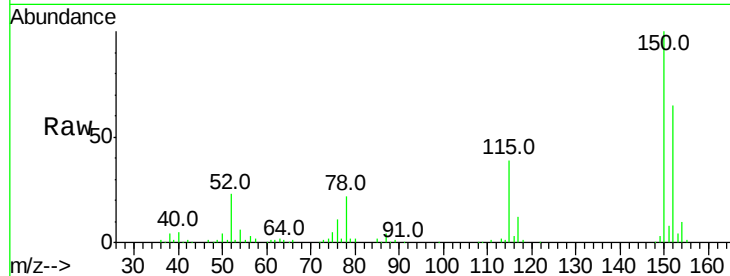


#1

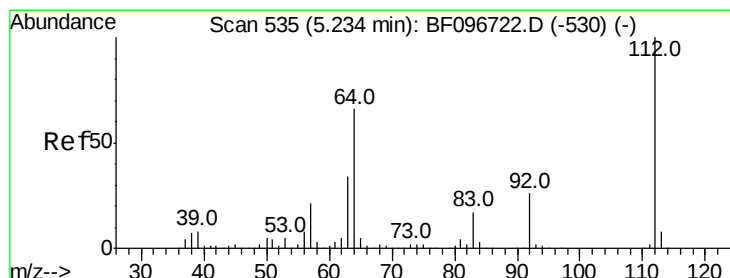
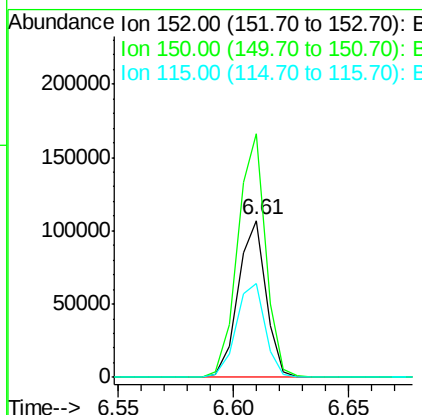
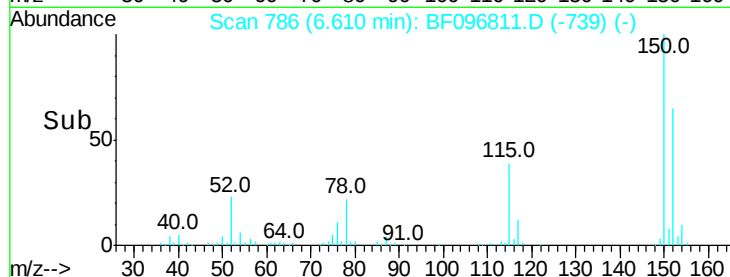
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.61 min Scan# 786
 Delta R.T. -0.02 min
 Lab File: BF096811.D
 Acq: 17 Jul 2017 11:28

Instrument :
 BNA_F
 ClientSampleId :
 E2-05-WSW

Tot Ion:152 Resp: 90047
 Ion Ratio Lower Upper
 152 100
 150 155.0 126.2 189.2
 115 59.8 52.2 78.2



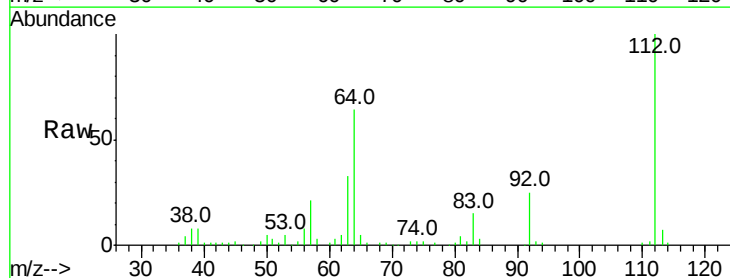
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



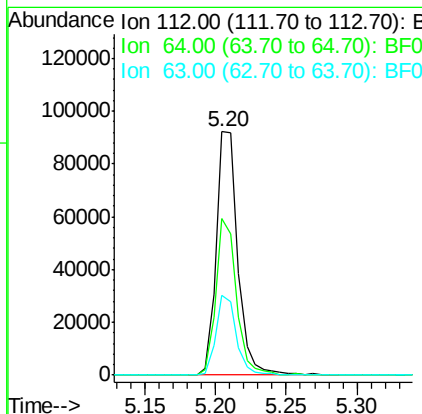
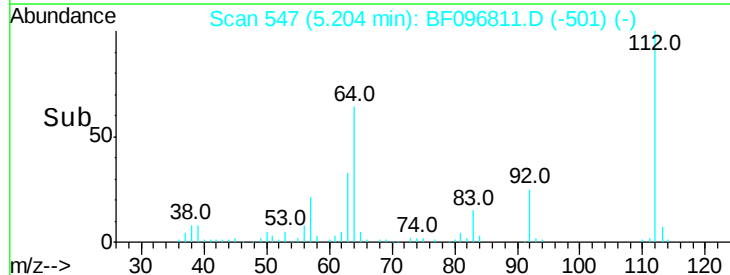
#5

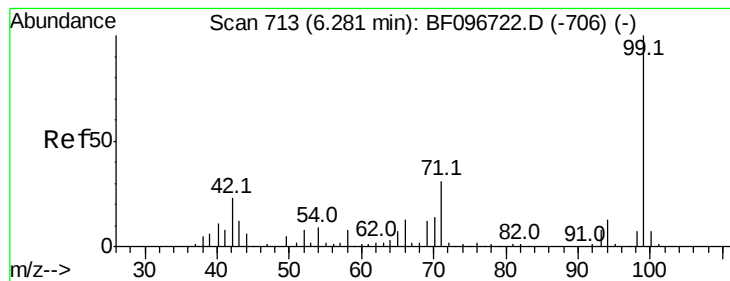
2-Fluorophenol
 Concen: 16.374 ng
 RT: 5.20 min Scan# 547
 Delta R.T. -0.03 min
 Lab File: BF096811.D
 Acq: 17 Jul 2017 11:28

Tgt Ion:112 Resp: 98060
 Ion Ratio Lower Upper
 112 100
 64 64.1 46.0 69.0
 63 33.0 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: 16.779 ng

RT: 6.25 min Scan# 725

Delta R.T. -0.03 min

Lab File: BF096811.D

Acq: 17 Jul 2017 11:28

Instrument :

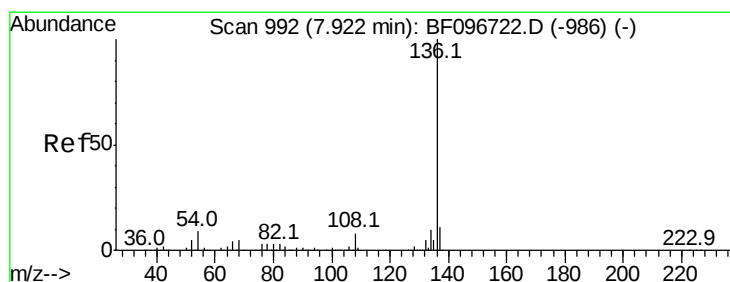
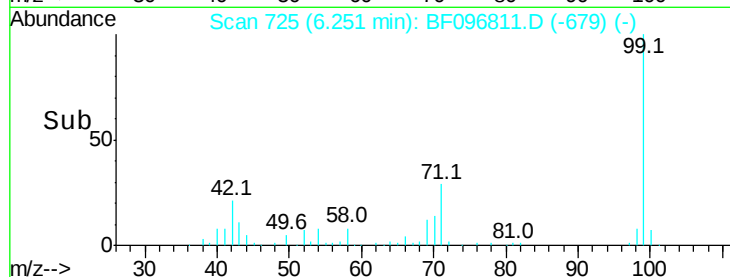
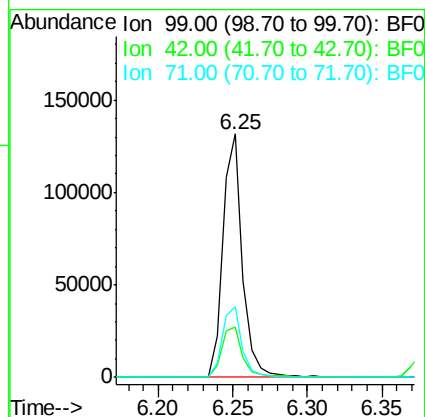
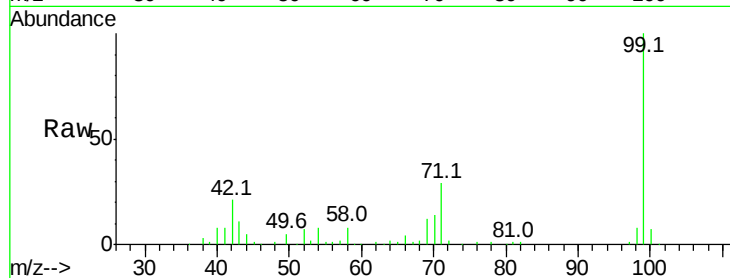
BNA_F

ClientSampleId :

E2-05-WSW

Tot Ion: 99 Resp: 120590

Ion	Ratio	Lower	Upper
99	100		
42	20.6	13.5	20.3#
71	29.0	24.5	36.7



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.89 min Scan# 1004

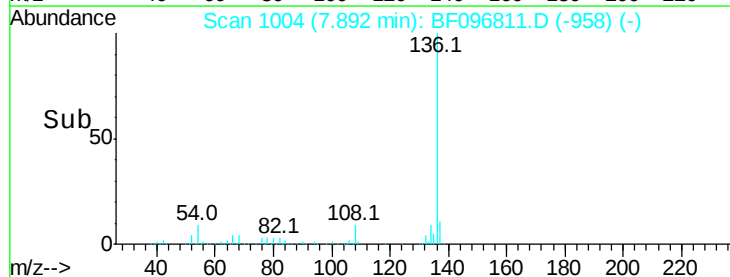
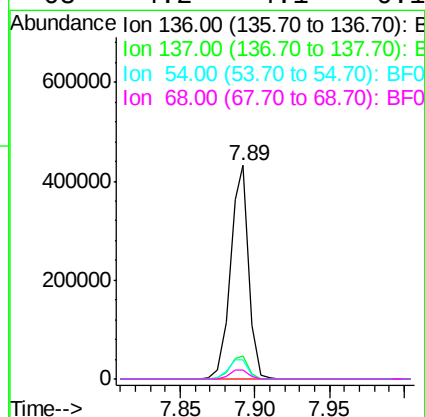
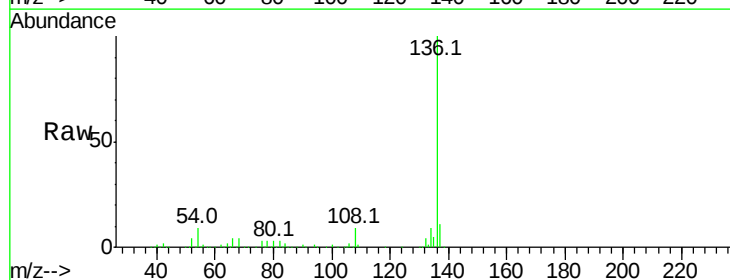
Delta R.T. -0.03 min

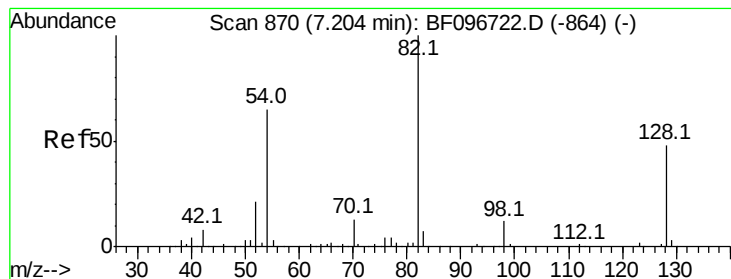
Lab File: BF096811.D

Acq: 17 Jul 2017 11:28

Tgt Ion: 136 Resp: 372351

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.5	12.7
54	9.0	4.9	7.3#
68	4.2	4.1	6.1





#23

Nitrobenzene-d5

Concen: 10.837 ng

RT: 7.16 min Scan# 880

Delta R.T. -0.04 min

Lab File: BF096811.D

Acq: 17 Jul 2017 11:28

Instrument :

BNA_F

ClientSampleId :

E2-05-WSW

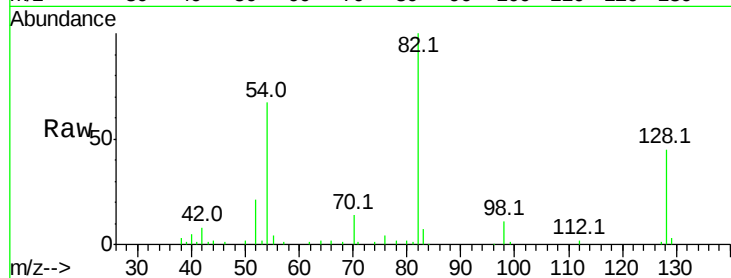
Tot Ion: 82 Resp: 65144

Ion Ratio Lower Upper

82 100

128 44.8 34.0 51.0

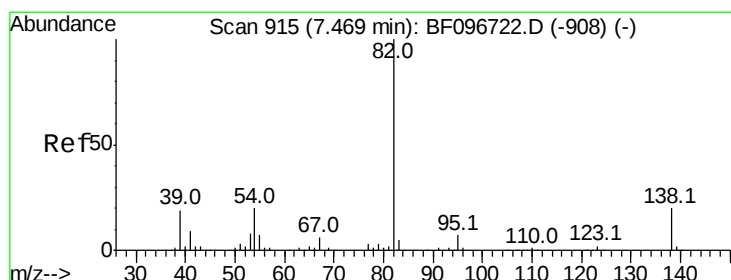
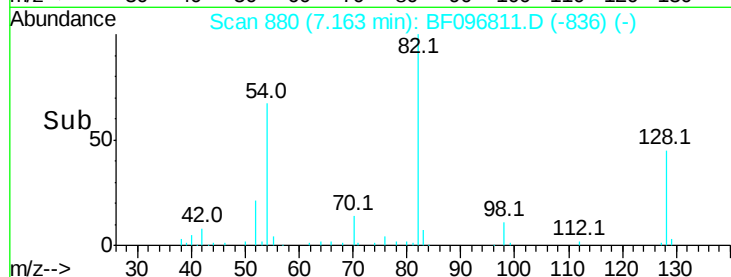
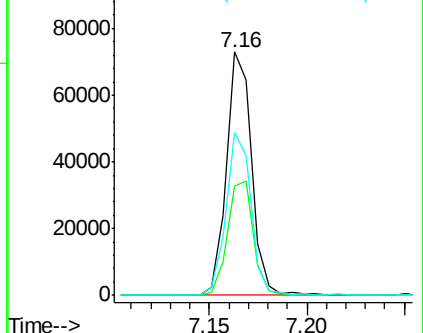
54 66.7 42.2 63.2#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 5.745 ng

RT: 7.16 min Scan# 880

Delta R.T. -0.31 min

Lab File: BF096811.D

Acq: 17 Jul 2017 11:28

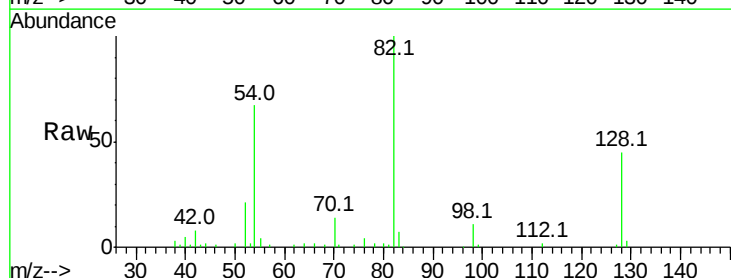
Tgt Ion: 82 Resp: 64244

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

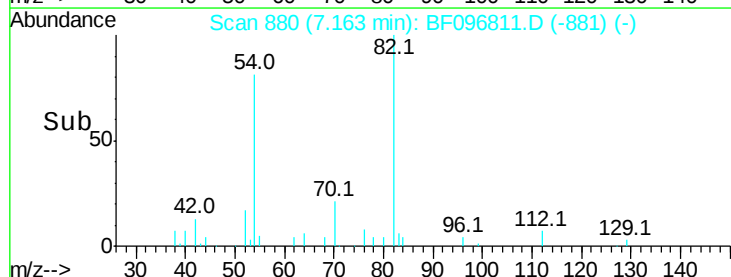
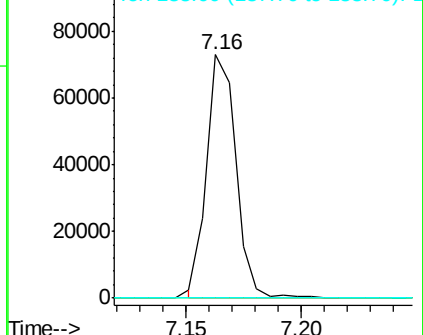
138 0.0 13.1 19.7#

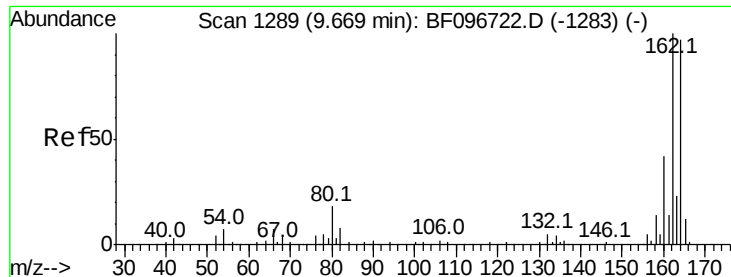


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0

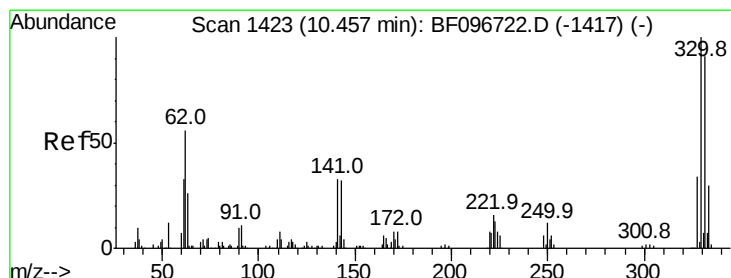
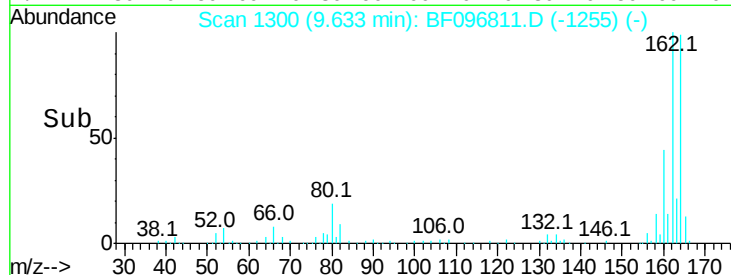
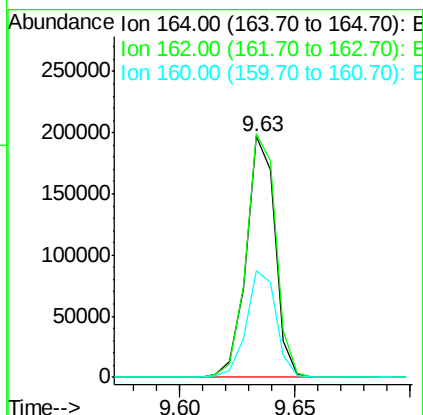
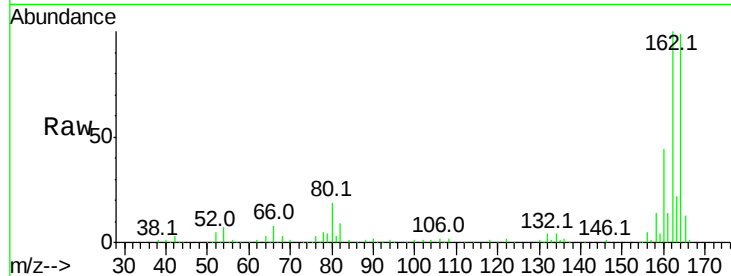




#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.63 min Scan# 1300
 Delta R.T. -0.04 min
 Lab File: BF096811.D
 Acq: 17 Jul 2017 11:28

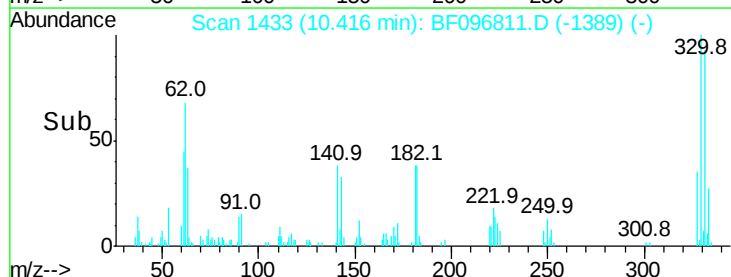
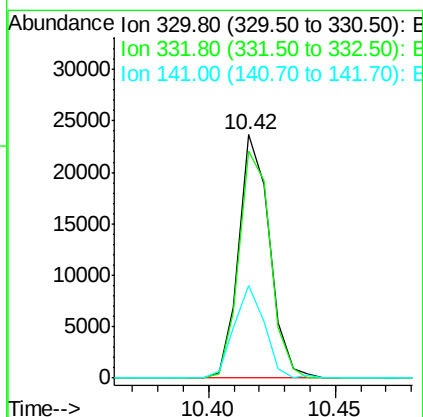
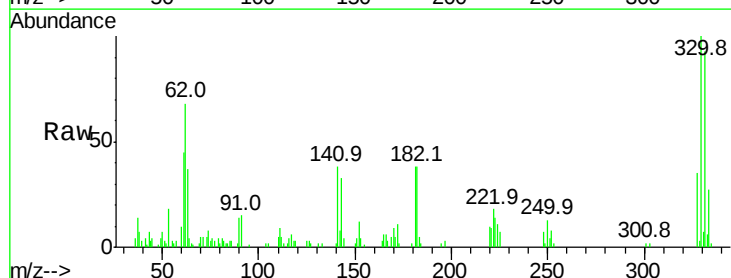
Instrument :
 BNA_F
 ClientSampleId :
 E2-05-WSW

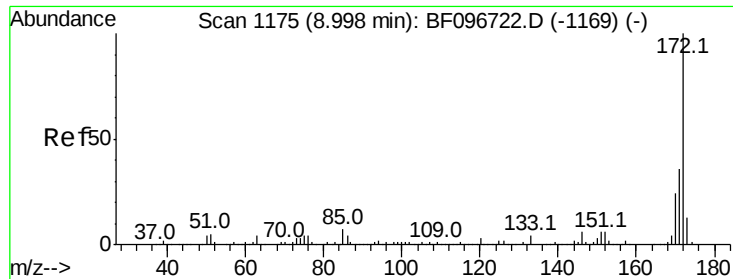
Tot Ion:164 Resp: 171952
 Ion Ratio Lower Upper
 164 100
 162 101.1 82.6 123.8
 160 44.4 36.2 54.2



#41
 2,4,6-Tribromophenol
 Concen: 13.613 ng
 RT: 10.42 min Scan# 1433
 Delta R.T. -0.04 min
 Lab File: BF096811.D
 Acq: 17 Jul 2017 11:28

Tgt Ion:330 Resp: 19981
 Ion Ratio Lower Upper
 330 100
 332 95.2 76.6 115.0
 141 37.8 31.4 47.2

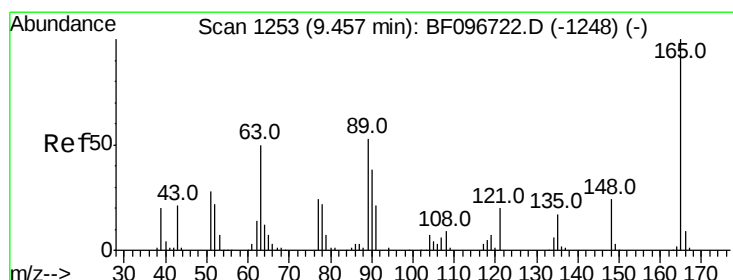
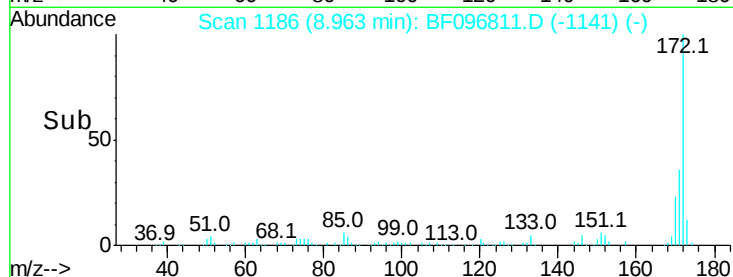
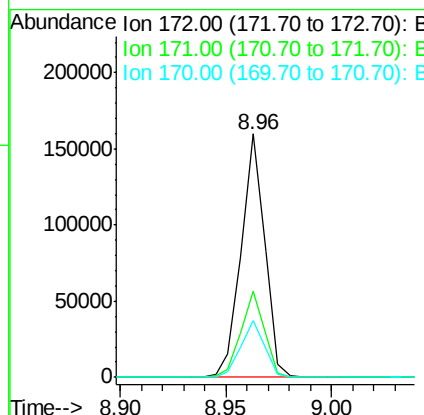
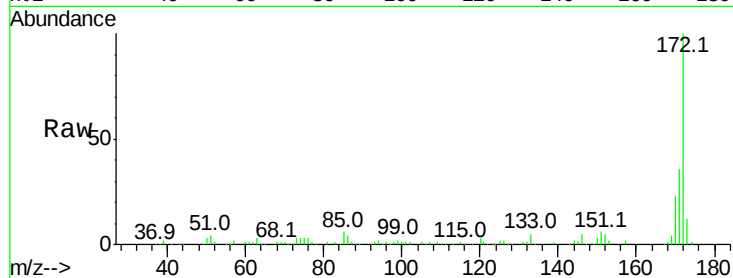




#44
 2-Fluorobiphenyl
 Concen: 11.311 ng
 RT: 8.96 min Scan# 1186
 Delta R.T. -0.04 min
 Lab File: BF096811.D
 Acq: 17 Jul 2017 11:28

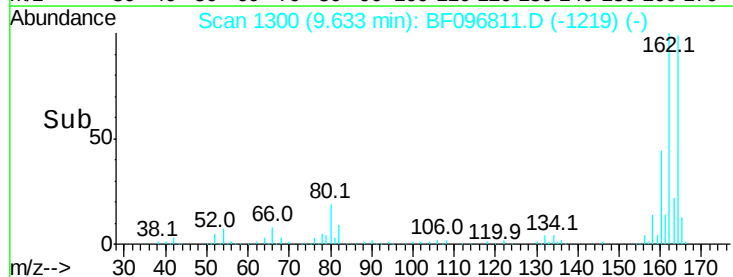
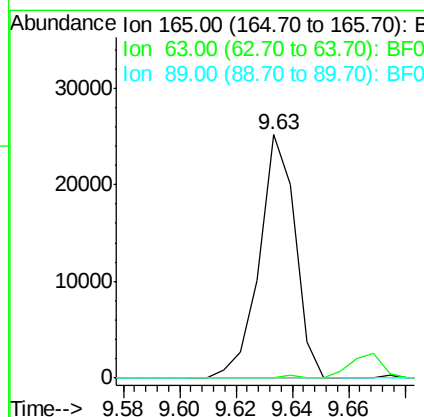
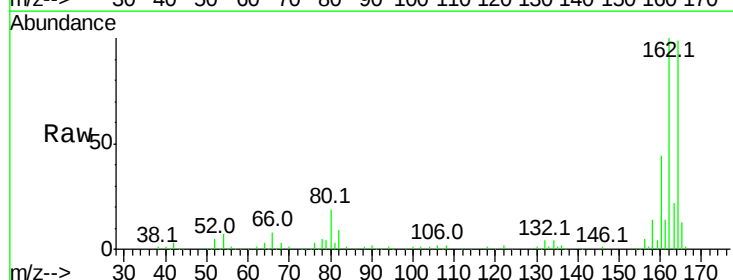
Instrument :
 BNA_F
 ClientSampleId :
 E2-05-WSW

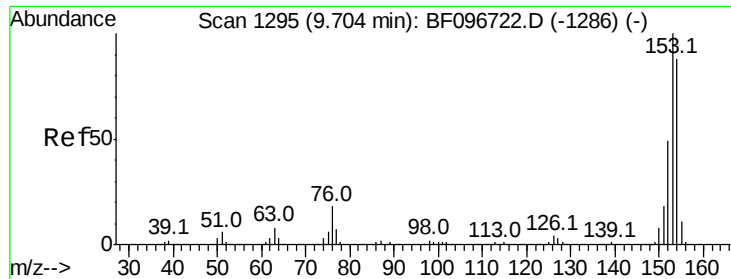
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.6	44.4
170	23.2	19.8	29.8



#50
 2,6-Dinitrotoluene
 Concen: 7.869 ng
 RT: 9.63 min Scan# 1300
 Delta R.T. 0.18 min
 Lab File: BF096811.D
 Acq: 17 Jul 2017 11:28

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	34.3	51.5#
89	0.0	37.1	55.7#





#51

Acenaphthene

Concen: 2.237 ng

RT: 9.67 min Scan# 1306

Delta R.T. -0.04 min

Lab File: BF096811.D

Acq: 17 Jul 2017 11:28

Instrument :

BNA_F

ClientSampleId :

E2-05-WSW

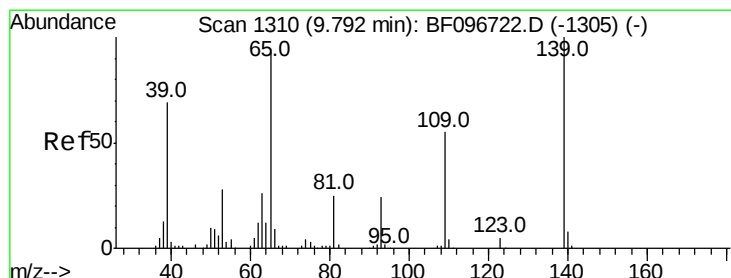
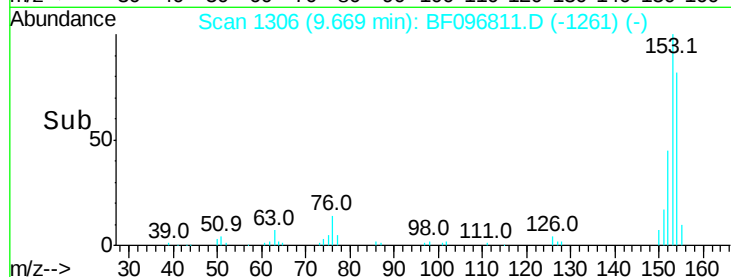
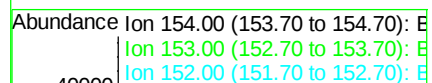
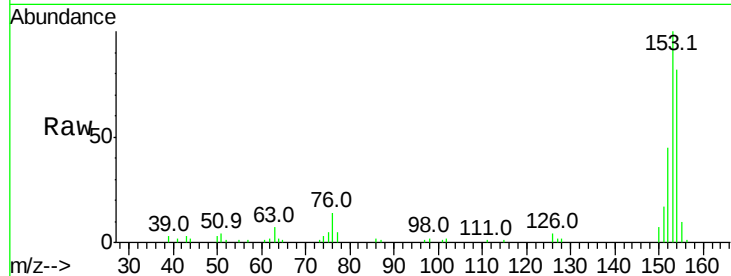
Tot Ion:154 Resp: 22863

Ion Ratio Lower Upper

154 100

153 122.2 90.5 135.7

152 54.4 43.6 65.4



#55

4-Nitrophenol

Concen: 2.901 ng

RT: 9.84 min Scan# 1335

Delta R.T. 0.05 min

Lab File: BF096811.D

Acq: 17 Jul 2017 11:28

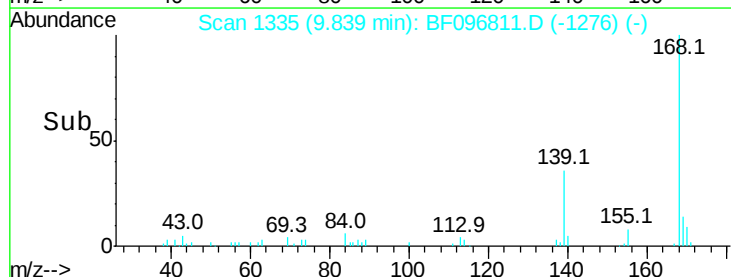
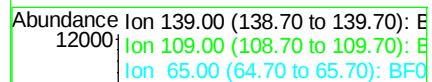
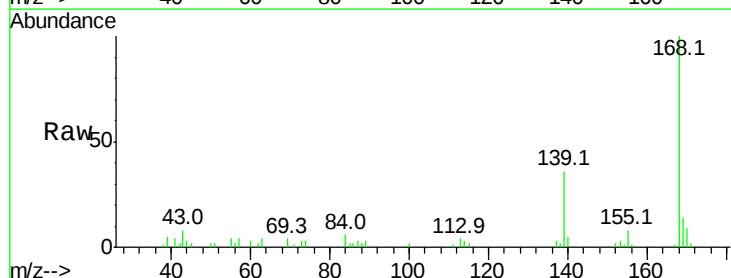
Tgt Ion:139 Resp: 7040

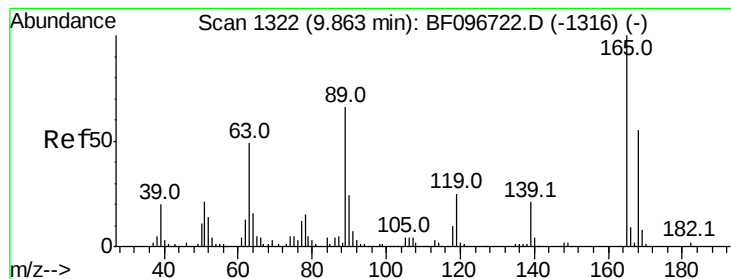
Ion Ratio Lower Upper

139 100

109 0.0 34.1 74.1#

65 0.0 31.4 71.4#





#56

2,4-Dinitrotoluene

Concen: 6.124 ng

RT: 9.63 min Scan# 1300

Delta R.T. -0.23 min

Lab File: BF096811.D

Acq: 17 Jul 2017 11:28

Instrument :

BNA_F

ClientSampleId :

E2-05-WSW

Tot Ion:165 Resp: 22069

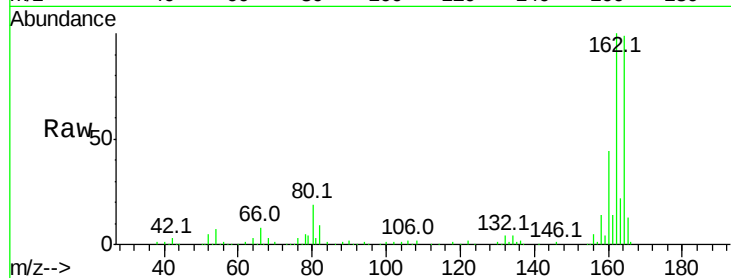
Ion Ratio Lower Upper

165 100

63 0.0 25.4 38.0#

89 0.0 46.4 69.6#

182 0.0 1.8 2.6#

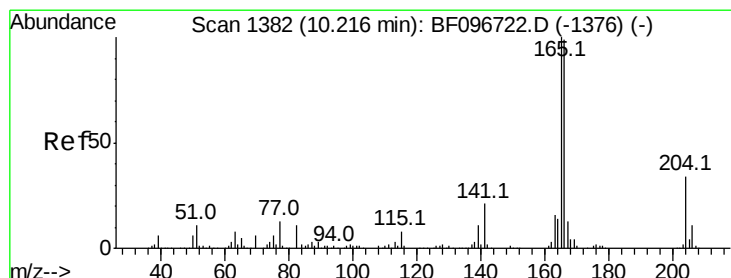
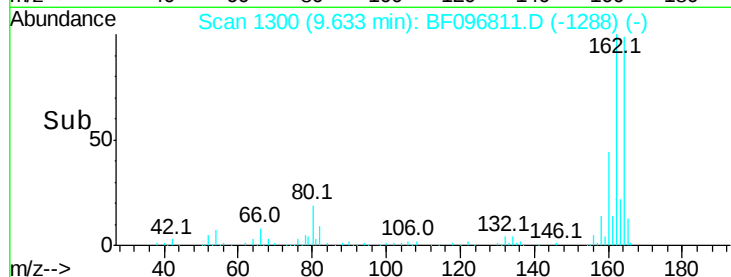
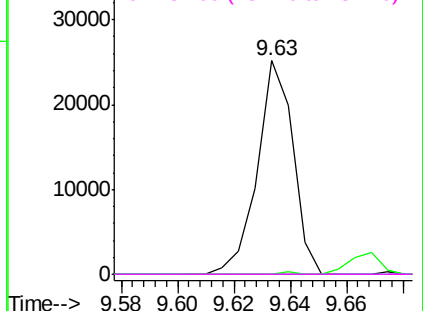


Abundance Ion 165.00 (164.70 to 165.70): E

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



#57

Fluorene

Concen: 2.091 ng

RT: 10.18 min Scan# 1393

Delta R.T. -0.03 min

Lab File: BF096811.D

Acq: 17 Jul 2017 11:28

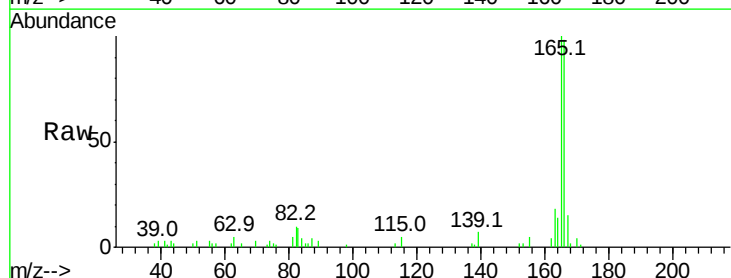
Tgt Ion:166 Resp: 22127

Ion Ratio Lower Upper

166 100

165 101.8 78.8 118.2

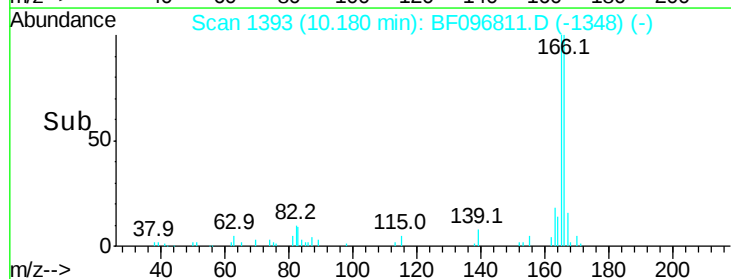
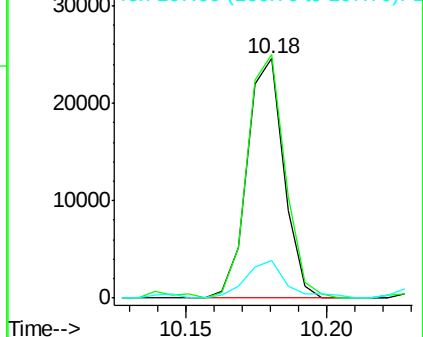
167 15.7 10.6 16.0

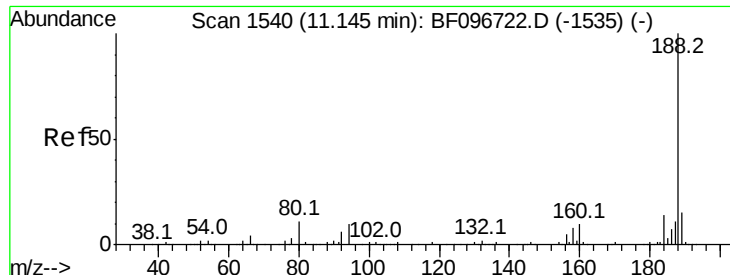


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

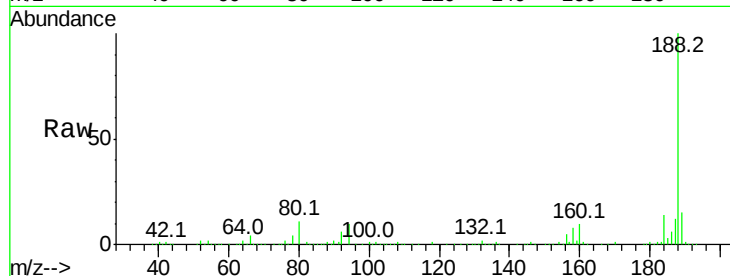




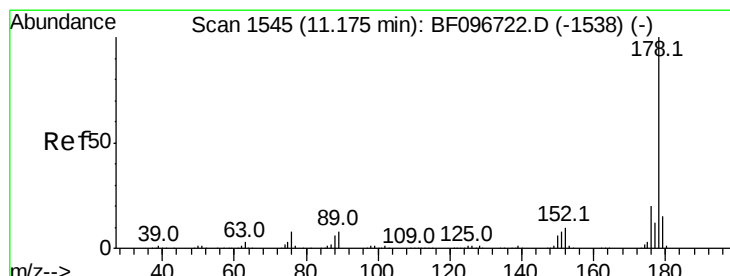
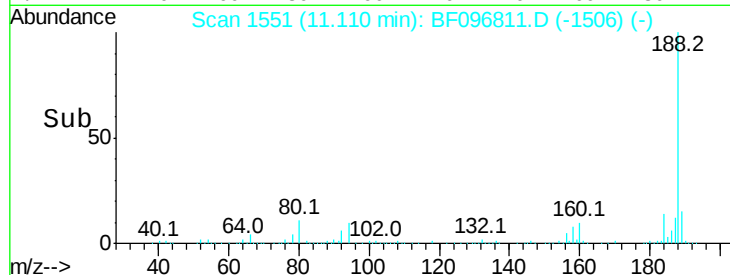
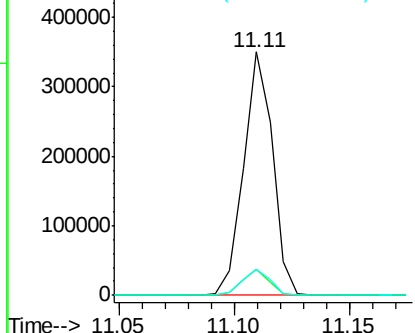
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.11 min Scan# 1551
Delta R.T. -0.04 min
Lab File: BF096811.D
Acq: 17 Jul 2017 11:28

Instrument :
BNA_F
ClientSampleId :
E2-05-WSW

Tot Ion:188 Resp: 309241
Ion Ratio Lower Upper
188 100
94 10.4 9.4 14.2
80 10.8 10.2 15.2

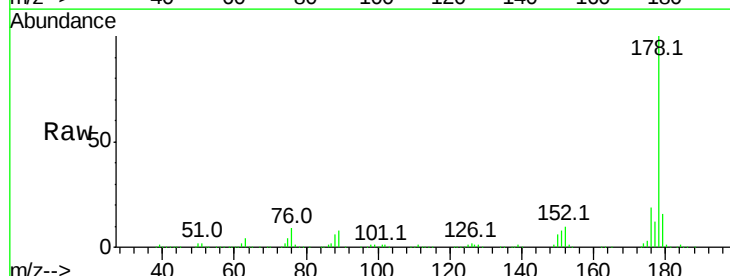


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

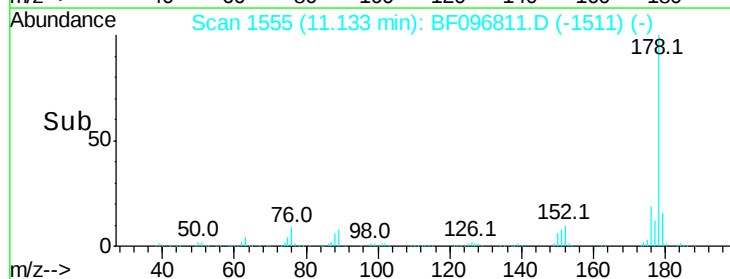
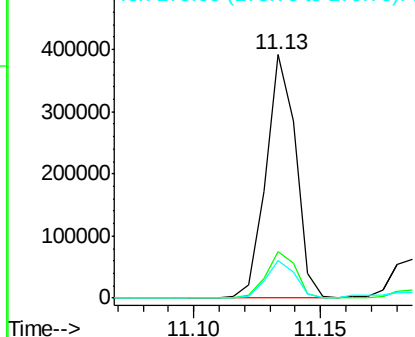


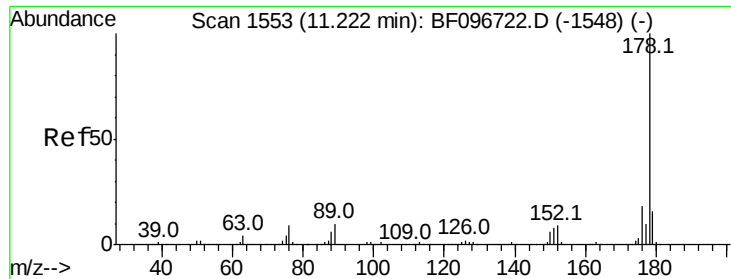
#70
Phenanthrene
Concen: 19.221 ng
RT: 11.13 min Scan# 1555
Delta R.T. -0.04 min
Lab File: BF096811.D
Acq: 17 Jul 2017 11:28

Tgt Ion:178 Resp: 323194
Ion Ratio Lower Upper
178 100
176 19.1 16.2 24.4
179 15.7 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





#71

Anthracene

Concen: 3.153 ng

RT: 11.19 min Scan# 1564

Delta R.T. -0.04 min

Lab File: BF096811.D

Acq: 17 Jul 2017 11:28

Instrument :

BNA_F

ClientSampleId :

E2-05-WSW

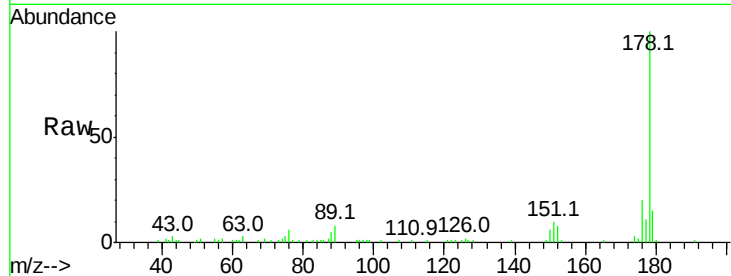
Tot Ion:178 Resp: 53609

Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.8

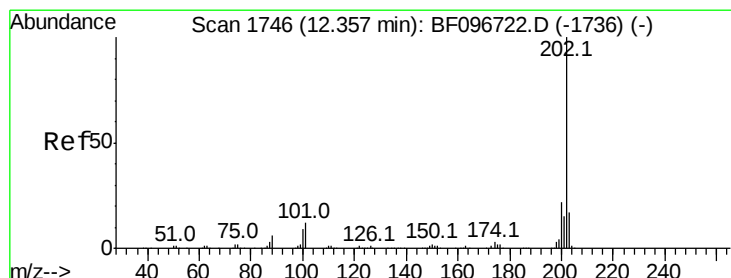
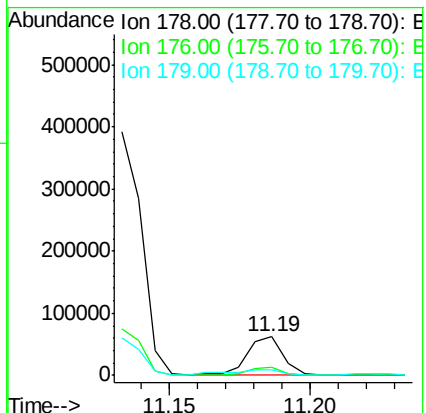
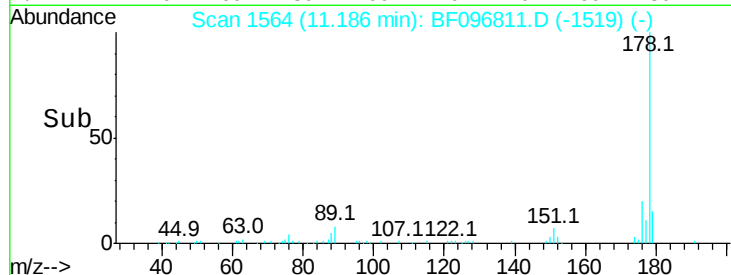
179 15.4 12.7 19.1



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



#74

Fluoranthene

Concen: 21.231 ng

RT: 12.32 min Scan# 1756

Delta R.T. -0.04 min

Lab File: BF096811.D

Acq: 17 Jul 2017 11:28

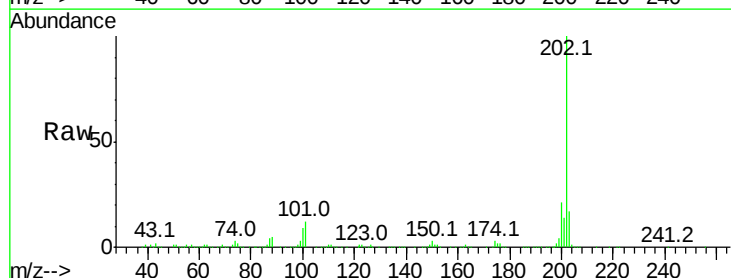
Tgt Ion:202 Resp: 341693

Ion Ratio Lower Upper

202 100

101 12.3 0.0 33.2

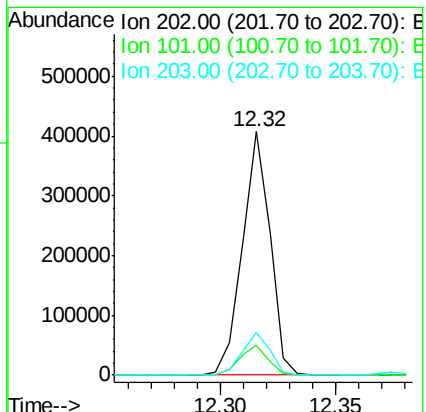
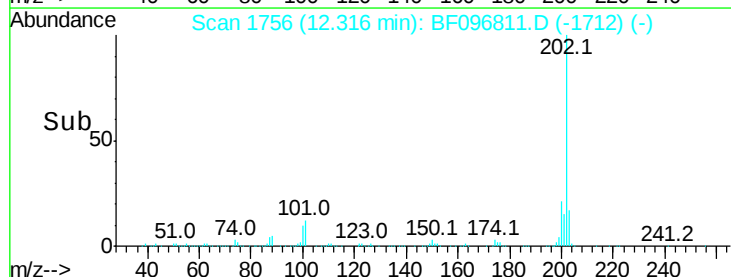
203 17.4 0.0 38.1

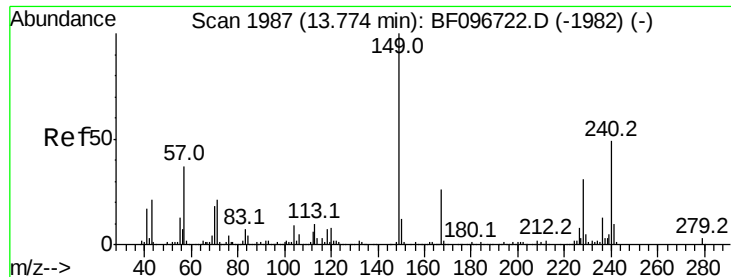


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.73 min Scan# 1997

Delta R.T. -0.04 min

Lab File: BF096811.D

Acq: 17 Jul 2017 11:28

Instrument :

BNA_F

ClientSampleId :

E2-05-WSW

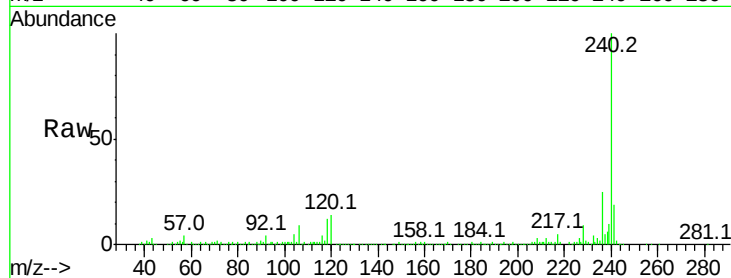
Tot Ion:240 Resp: 216827

Ion Ratio Lower Upper

240 100

120 13.8 5.8 8.8#

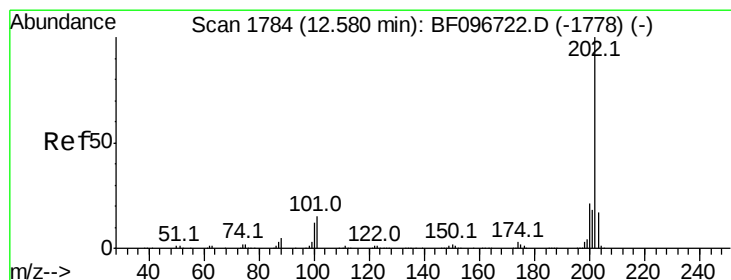
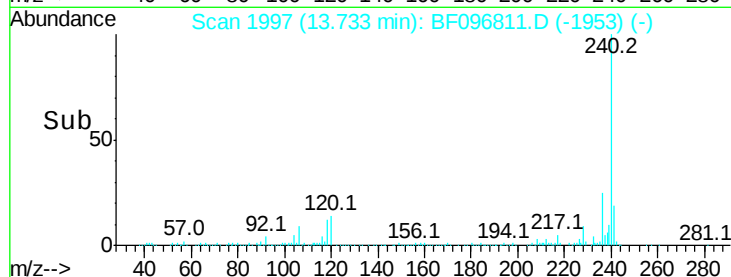
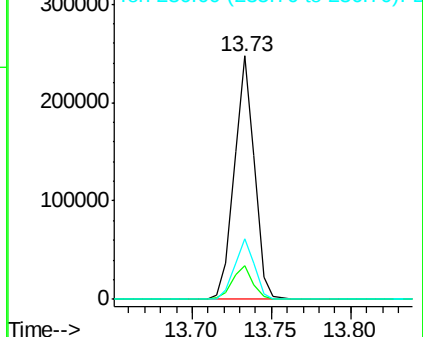
236 25.1 20.5 30.7



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

Pyrene

Concen: 15.500 ng

RT: 12.54 min Scan# 1794

Delta R.T. -0.04 min

Lab File: BF096811.D

Acq: 17 Jul 2017 11:28

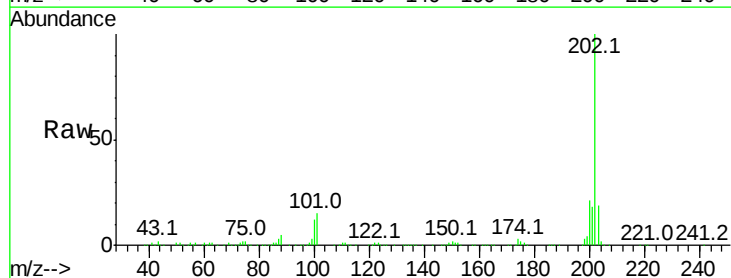
Tgt Ion:202 Resp: 305013

Ion Ratio Lower Upper

202 100

200 20.7 17.6 26.4

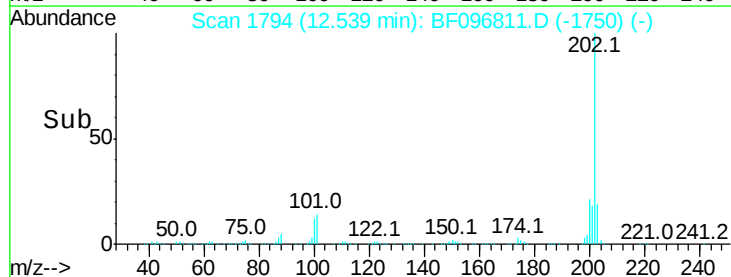
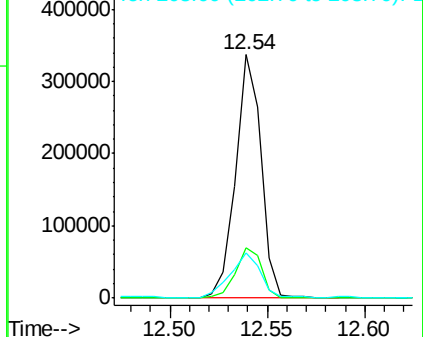
203 18.7 14.4 21.6

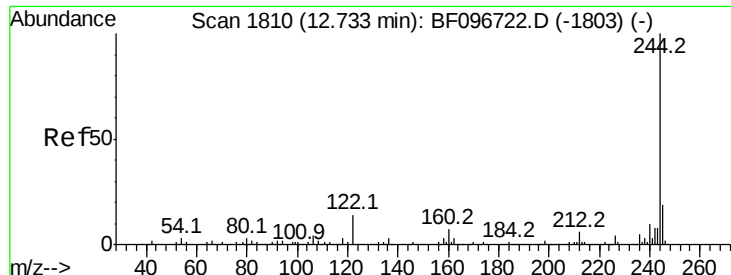


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 9.010 ng

RT: 12.69 min Scan# 1819

Delta R.T. -0.05 min

Lab File: BF096811.D

Acq: 17 Jul 2017 11:28

Instrument :

BNA_F

ClientSampleId :

E2-05-WSW

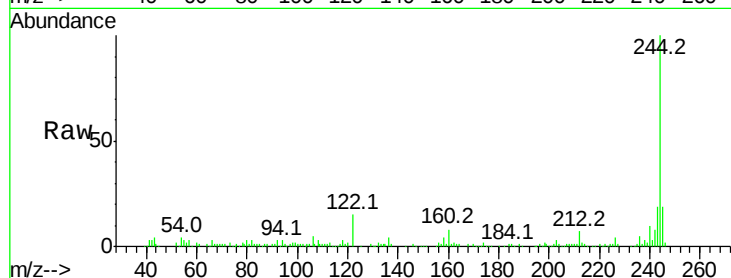
Tot Ion:244 Resp: 112648

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

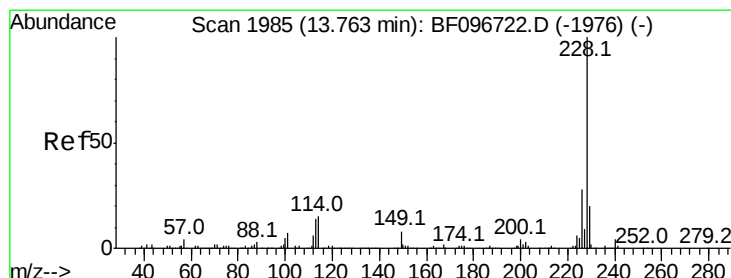
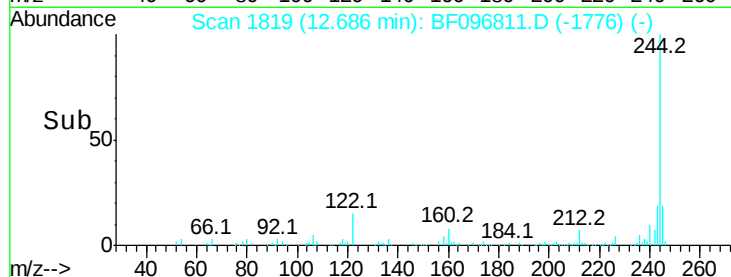
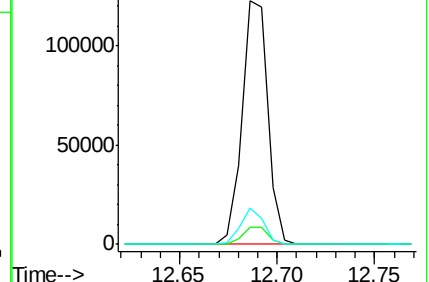
122 15.0 10.3 15.5



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: 7.079 ng

RT: 13.72 min Scan# 1995

Delta R.T. -0.04 min

Lab File: BF096811.D

Acq: 17 Jul 2017 11:28

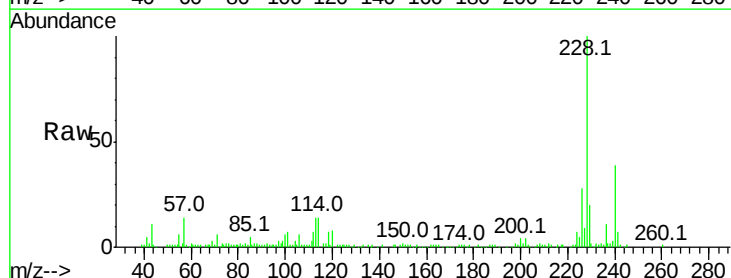
Tgt Ion:228 Resp: 95632

Ion Ratio Lower Upper

228 100

226 27.6 22.6 33.8

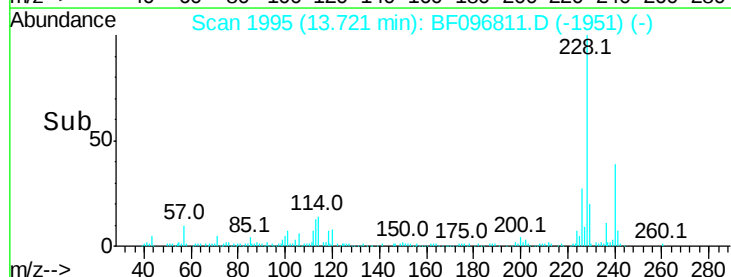
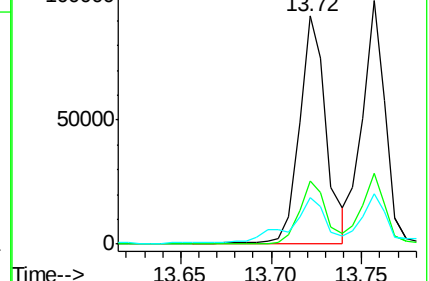
229 20.4 16.3 24.5

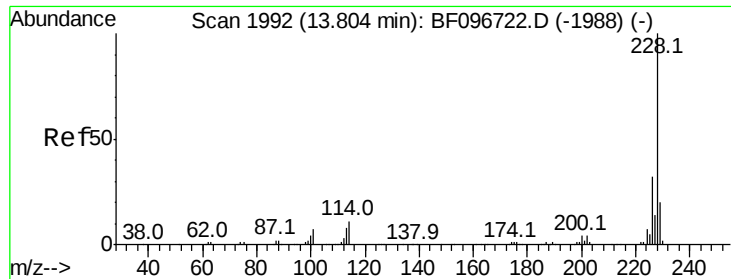


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

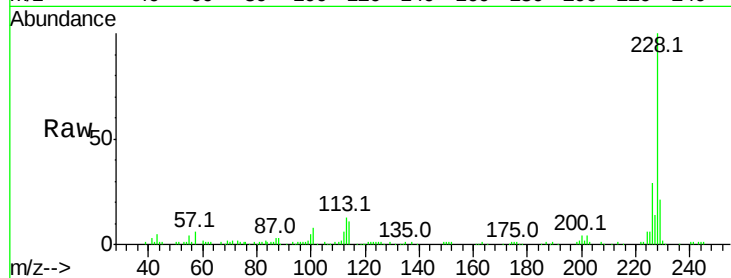




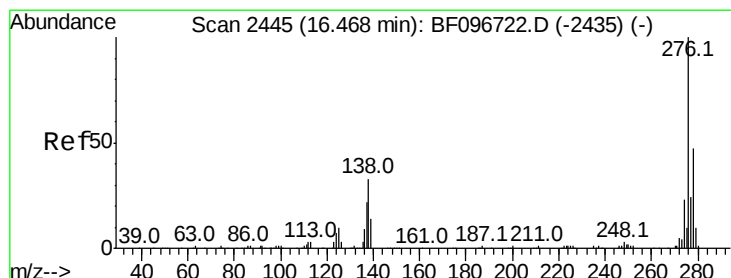
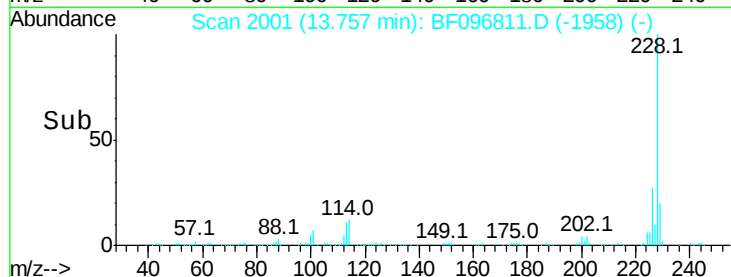
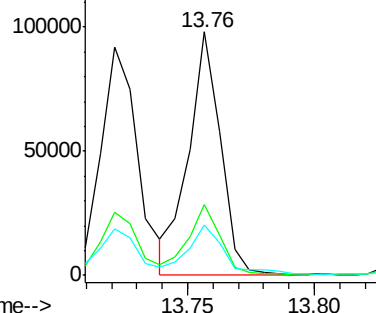
#82
Chrysene
Concen: 6.508 ng
RT: 13.76 min Scan# 2001
Delta R.T. -0.05 min
Lab File: BF096811.D
Acq: 17 Jul 2017 11:28

Instrument :
BNA_F
ClientSampleId :
E2-05-WSW

Tot Ion:228 Resp: 86561
Ion Ratio Lower Upper
228 100
226 28.9 24.9 37.3
229 20.7 15.8 23.6

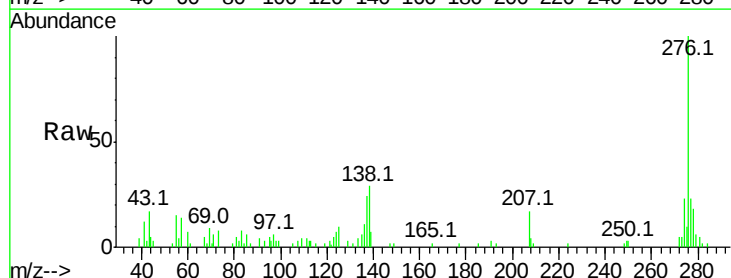


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

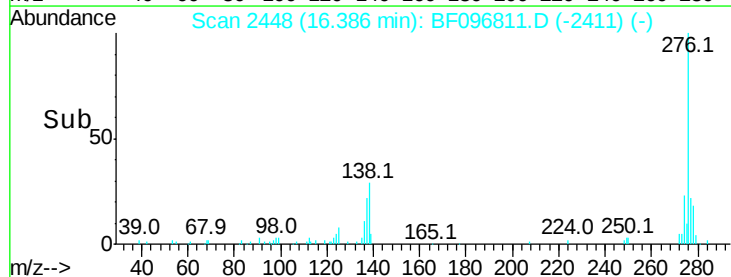
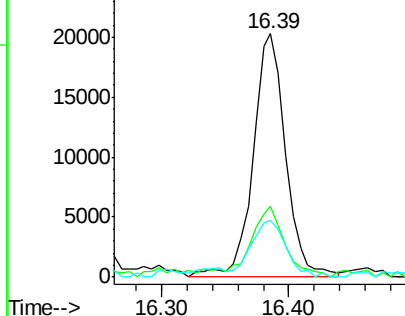


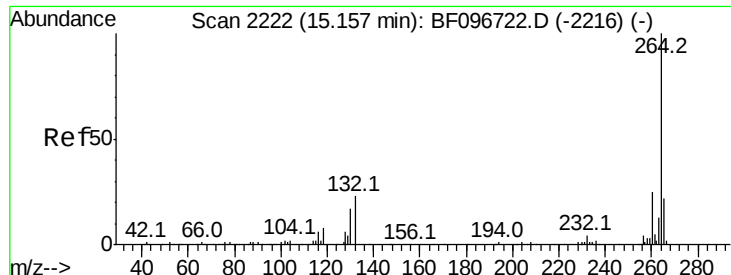
#85
Indeno(1,2,3-cd)pyrene
Concen: 6.170 ng
RT: 16.39 min Scan# 2448
Delta R.T. -0.08 min
Lab File: BF096811.D
Acq: 17 Jul 2017 11:28

Tgt Ion:276 Resp: 36430
Ion Ratio Lower Upper
276 100
138 32.0 27.8 41.6
277 25.0 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

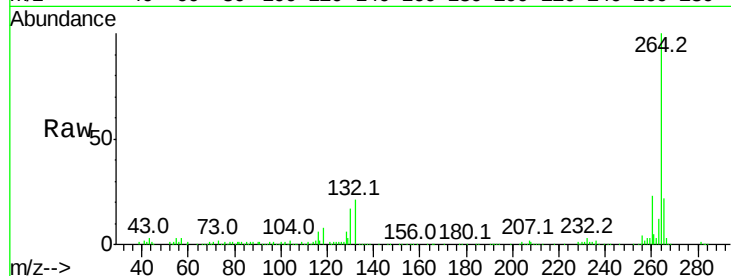




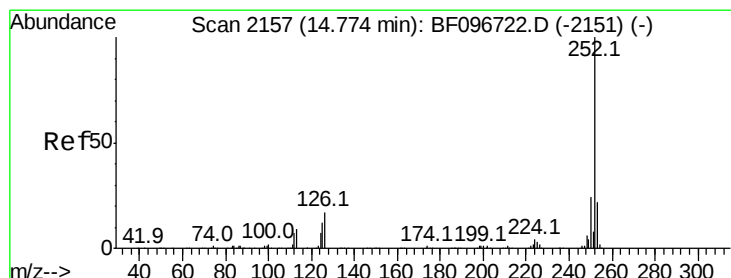
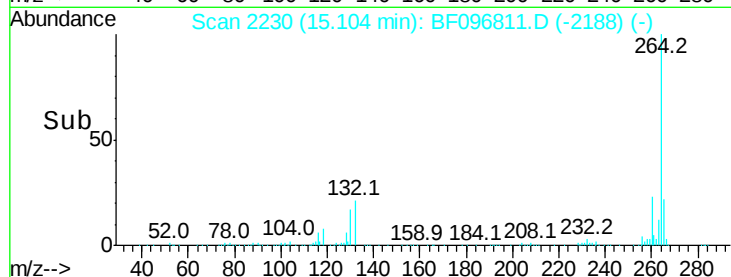
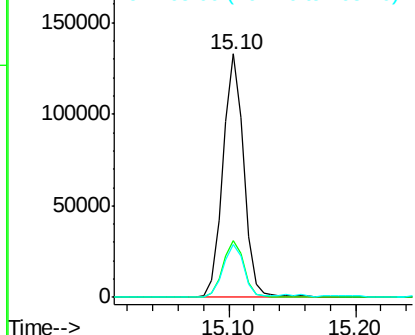
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.10 min Scan# 2230
Delta R.T. -0.05 min
Lab File: BF096811.D
Acq: 17 Jul 2017 11:28

Instrument :
BNA_F
ClientSampleId :
E2-05-WSW

Tot Ion:264 Resp: 151362
Ion Ratio Lower Upper
264 100
260 23.5 19.5 29.3
265 21.8 17.2 25.8

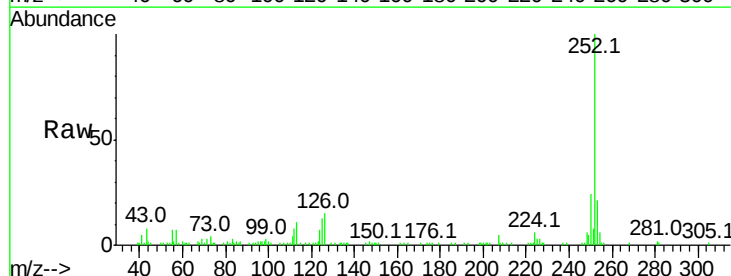


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

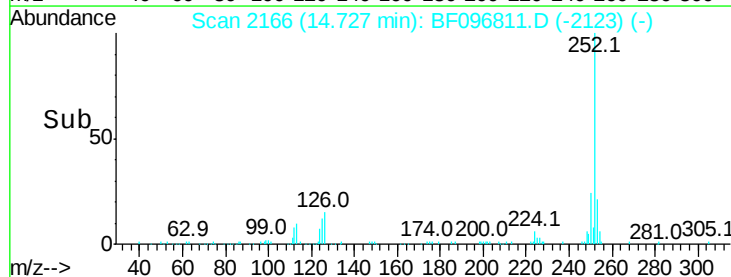
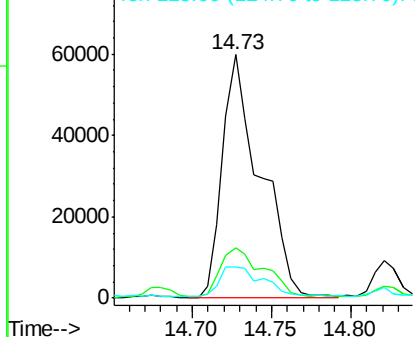


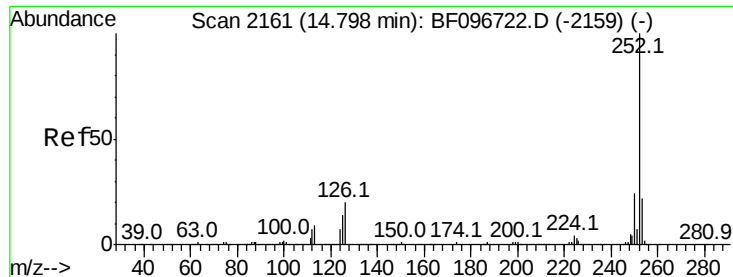
#87
Benzo(b)fluoranthene
Concen: 10.911 ng
RT: 14.73 min Scan# 2166
Delta R.T. -0.05 min
Lab File: BF096811.D
Acq: 17 Jul 2017 11:28

Tgt Ion:252 Resp: 99603
Ion Ratio Lower Upper
252 100
253 20.8 18.1 27.1
125 12.9 9.8 14.8



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

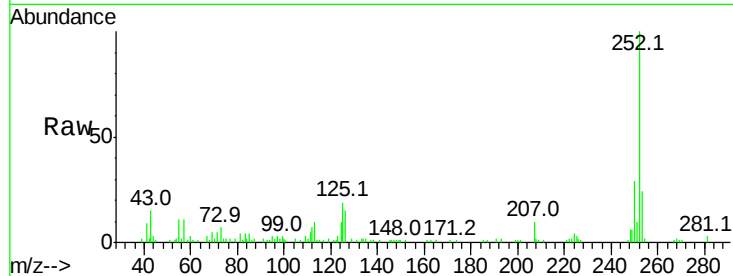




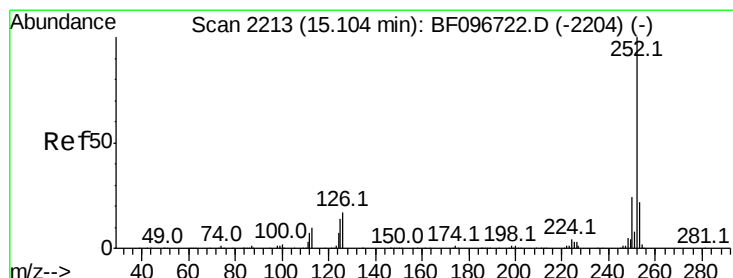
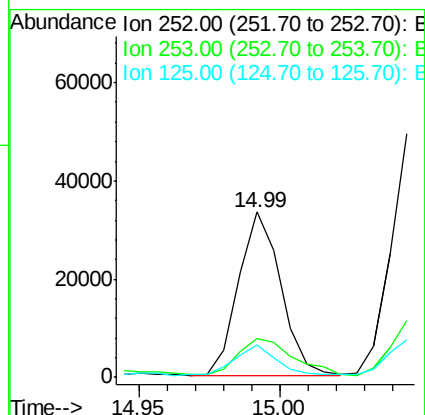
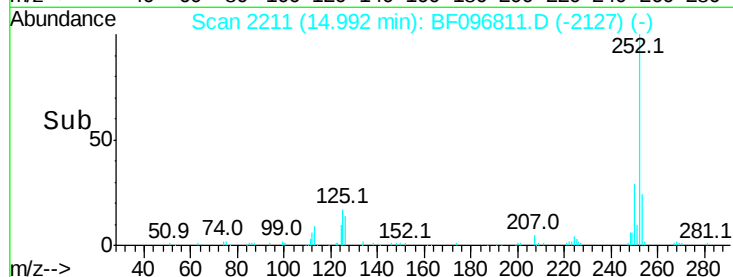
#88
Benzo(k)fluoranthene
Concen: 4.000 ng
RT: 14.99 min Scan# 2211
Delta R.T. 0.19 min
Lab File: BF096811.D
Acq: 17 Jul 2017 11:28

Instrument :
BNA_F
ClientSampleId :
E2-05-WSW

Tot Ion:252 Resp: 34574
Ion Ratio Lower Upper
252 100
253 23.7 18.4 27.6
125 19.5 13.1 19.7

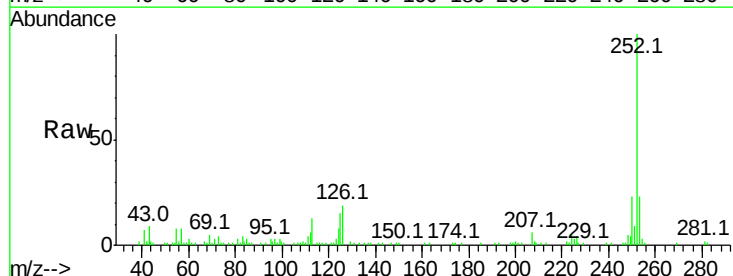


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

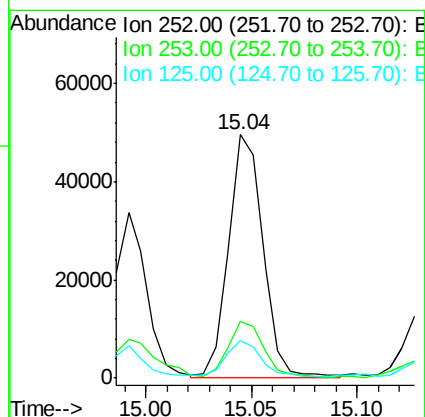
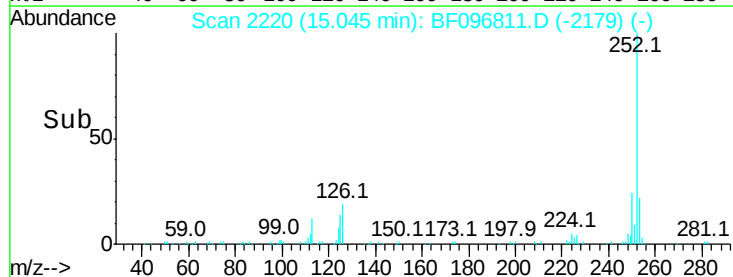


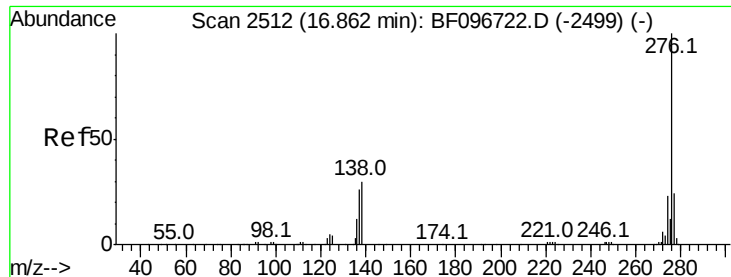
#89
Benzo(a)pyrene
Concen: 6.714 ng
RT: 15.04 min Scan# 2220
Delta R.T. -0.06 min
Lab File: BF096811.D
Acq: 17 Jul 2017 11:28

Tgt Ion:252 Resp: 56218
Ion Ratio Lower Upper
252 100
253 23.2 17.5 26.3
125 15.2 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(a,h,i)perylene

Concen: 4.259 ng

RT: 16.77 min Scan# 2513

Delta R.T. -0.09 min

Lab File: BF096811.D

Acq: 17 Jul 2017 11:28

Instrument :

BNA_F

ClientSampleId :

E2-05-WSW

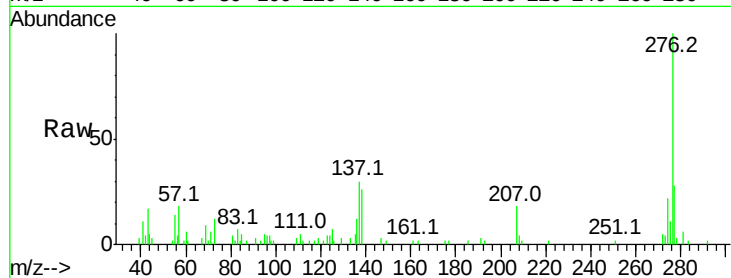
Tot Ion:276 Resp: 35134

Ion Ratio Lower Upper

276 100

277 27.6 18.6 28.0

138 25.7 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

