

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070117\
 Data File : BF096401.D
 Acq On : 2 Jul 2017 1:40
 Operator : SJ/MA
 Sample : I3977-01 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 03 01:54:28 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 03 01:43:12 2017
 Response via : Initial Calibration

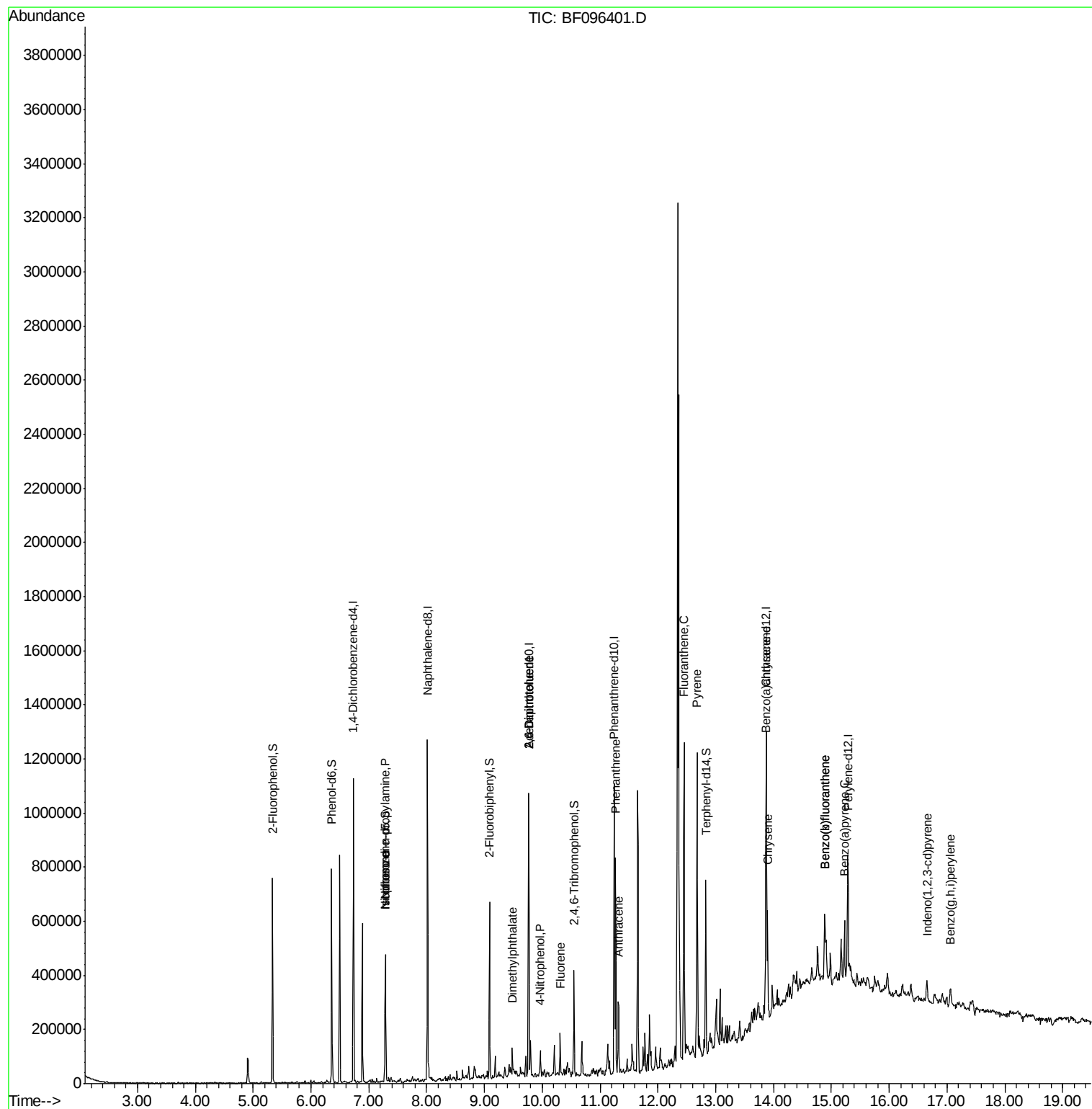
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	147861	20.00	ng	0.00
21) Naphthalene-d8	8.02	136	505781	20.00	ng	0.00
38) Acenaphthene-d10	9.77	164	204775	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	346628	20.00	ng	0.00
75) Chrysene-d12	13.87	240	298824	20.00	ng	0.00
86) Perylene-d12	15.29	264	188414	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	206978	20.66	ng	-0.01
7) Phenol-d6	6.36	99	237910	19.32	ng	-0.02
23) Nitrobenzene-d5	7.29	82	119598	14.21	ng	-0.02
41) 2,4,6-Tribromophenol	10.55	330	33185	20.75	ng	0.00
44) 2-Fluorobiphenyl	9.09	172	199648	16.67	ng	-0.01
78) Terphenyl-d14	12.83	244	170252	12.17	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.29	70	15939	2.17	ng	# 89
25) Isophorone	7.29	82	119101	7.30	ng	# 67
49) Dimethylphthalate	9.48	163	33504	2.19	ng	98
50) 2,6-Dinitrotoluene	9.76	165	27084	8.01	ng	# 33
55) 4-Nitrophenol	9.97	139	8890	2.54	ng	# 32
56) 2,4-Dinitrotoluene	9.76	165	27084	6.33	ng	# 33
57) Fluorene	10.31	166	36256	3.04	ng	98
70) Phenanthrene	11.27	178	263138	14.04	ng	98
71) Anthracene	11.32	178	103165	5.40	ng	98
74) Fluoranthene	12.46	202	434225	23.64	ng	98
77) Pyrene	12.68	202	404059	16.85	ng	99
80) Benzo(a)anthracene	13.86	228	163636	9.46	ng	97
82) Chrysene	13.90	228	137419	7.58	ng	97
85) Indeno(1,2,3-cd)pyrene	16.65	276	49090	3.43	ng	98
87) Benzo(b)fluoranthene	14.89	252	177586	15.04	ng	# 95
88) Benzo(k)fluoranthene	14.89	252	177586	16.82	ng	99
89) Benzo(a)pyrene	15.23	252	96079	9.12	ng	# 95
91) Benzo(g,h,i)perylene	17.06	276	48394	5.63	ng	93

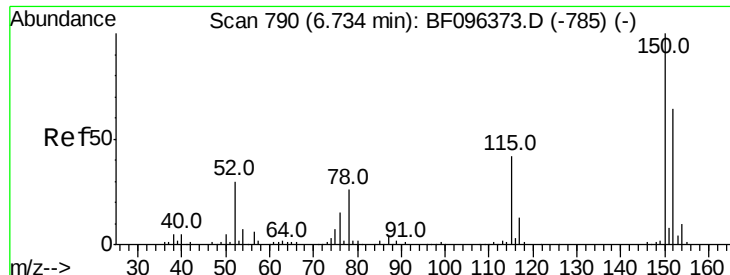
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.73 min Scan# 790

Delta R.T. -0.00 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

Instrument :

BNA_F

ClientSampleId :

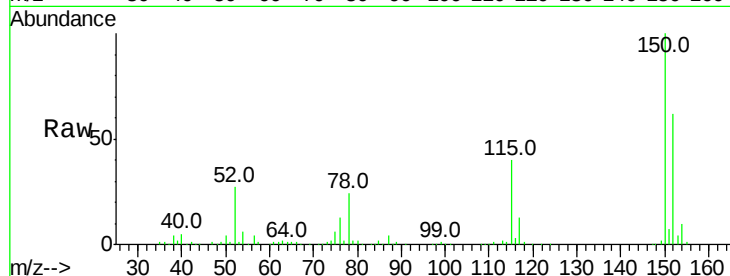
Tot Ion:152 Resp: 147861

Ion Ratio Lower Upper

152 100

150 161.8 126.2 189.2

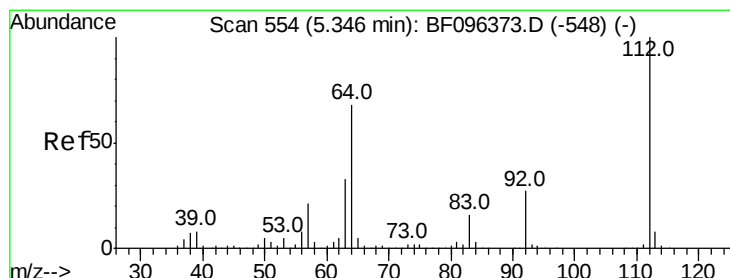
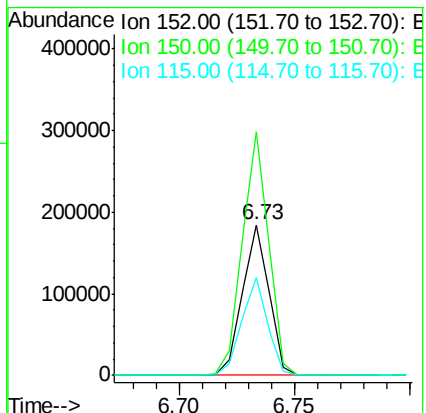
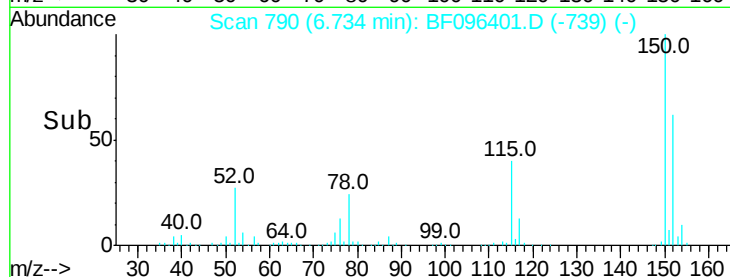
115 65.3 52.2 78.2



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: 20.66 ng

RT: 5.33 min Scan# 552

Delta R.T. -0.01 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

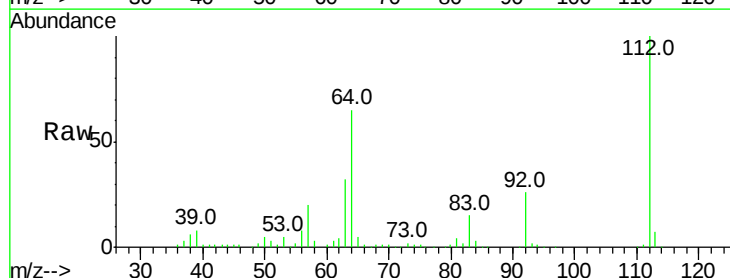
Tgt Ion:112 Resp: 206978

Ion Ratio Lower Upper

112 100

64 65.4 46.0 69.0

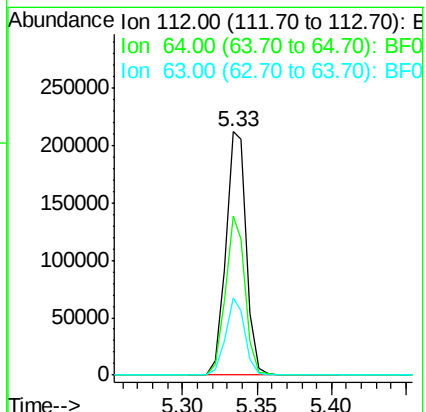
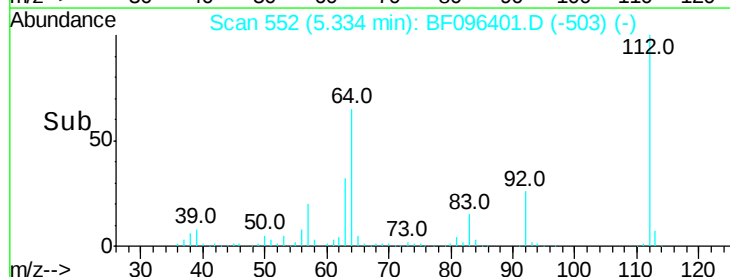
63 31.8 23.4 35.0



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: 19.32 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.02 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

Instrument :

BNA_F

ClientSampleId :

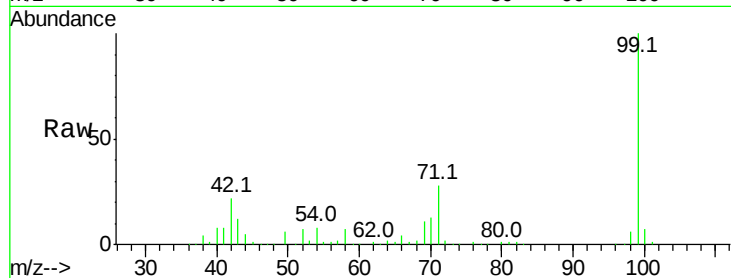
Tot Ion: 99 Resp: 237910

Ion Ratio Lower Upper

99 100

42 22.0 13.5 20.3#

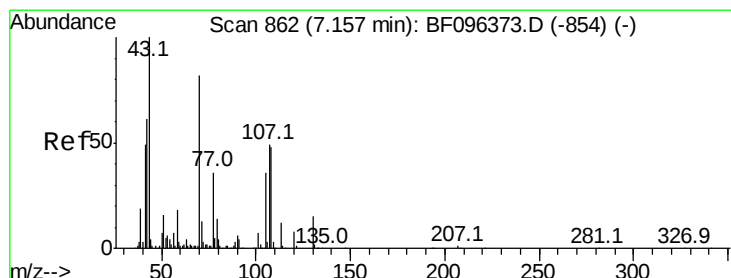
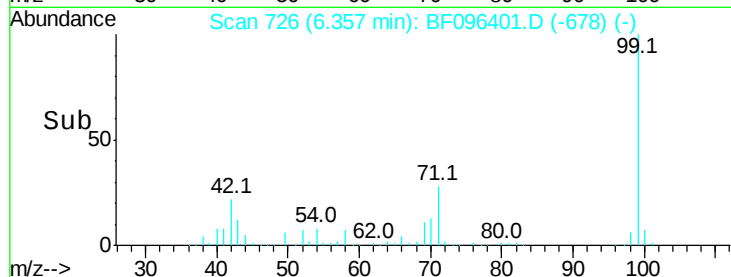
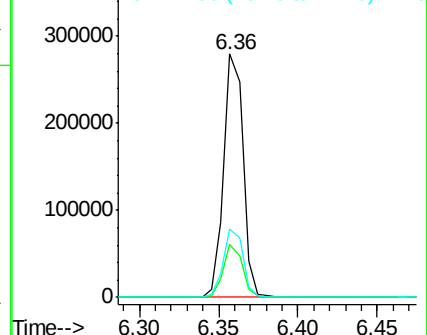
71 28.1 24.5 36.7



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: 2.17 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.13 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

Tgt Ion: 70 Resp: 15939

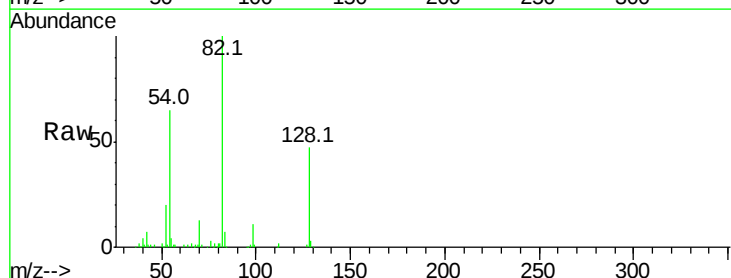
Ion Ratio Lower Upper

70 100

42 58.9 47.2 70.8

101 0.0 7.2 10.8#

130 2.7 15.9 23.9#

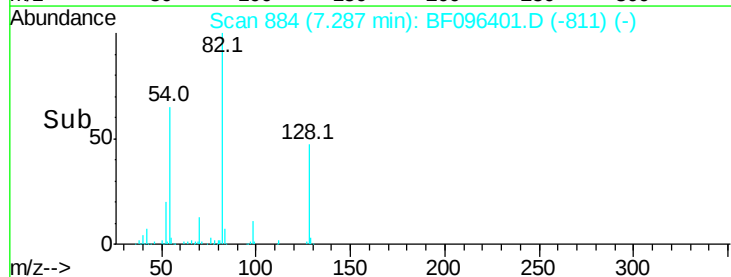
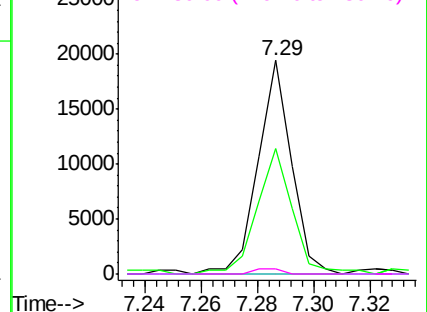


Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 8.02 min Scan# 1008

Delta R.T. -0.01 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

Instrument :

BNA_F

ClientSampled :

Tot Ion:136 Resp: 505781

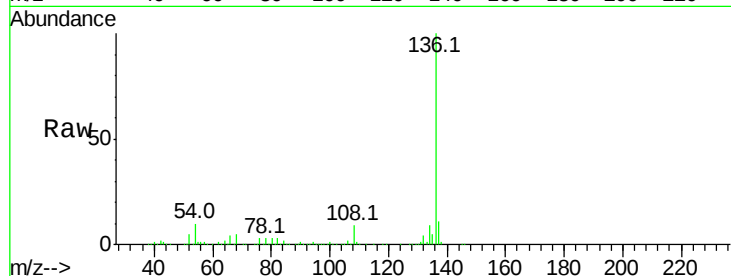
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 10.3 4.9 7.3#

68 5.0 4.1 6.1

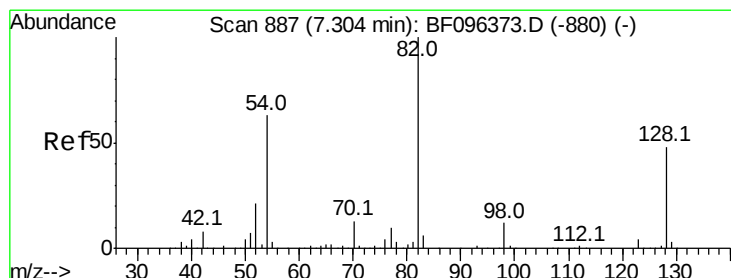
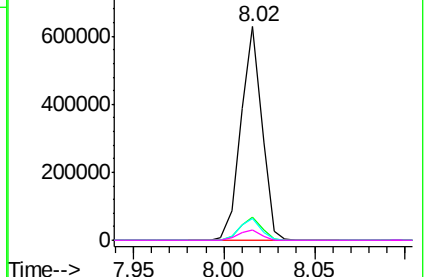
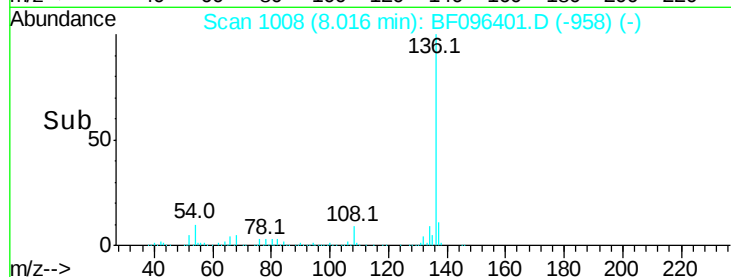


Abundance Ion 136.00 (135.70 to 136.70): E

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: 14.21 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.02 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

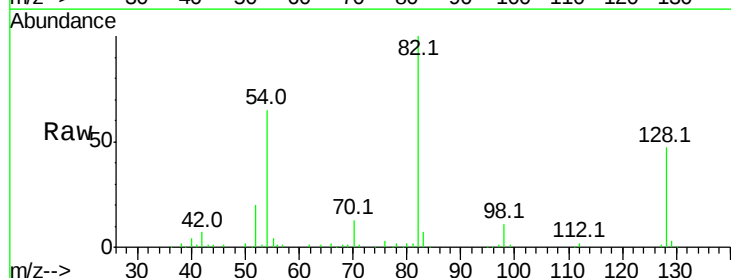
Tgt Ion: 82 Resp: 119598

Ion Ratio Lower Upper

82 100

128 46.7 34.0 51.0

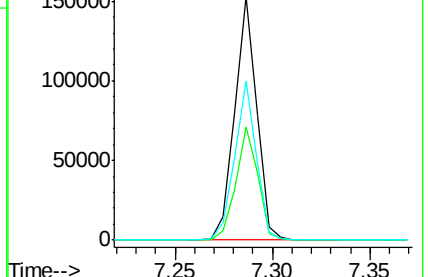
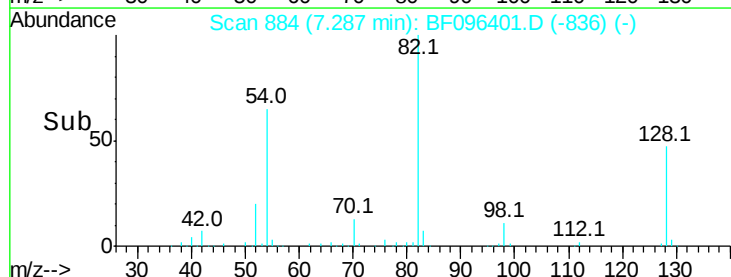
54 65.3 42.2 63.2#

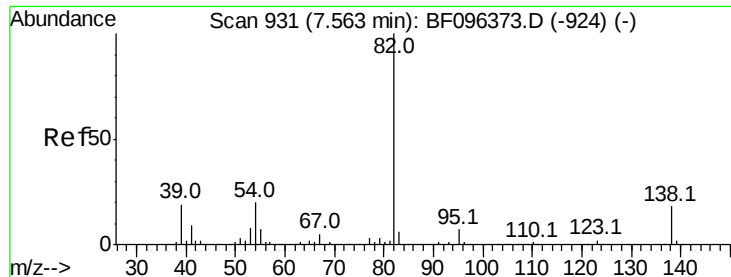


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 7.30 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.28 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

Instrument :

BNA_F

ClientSampleId :

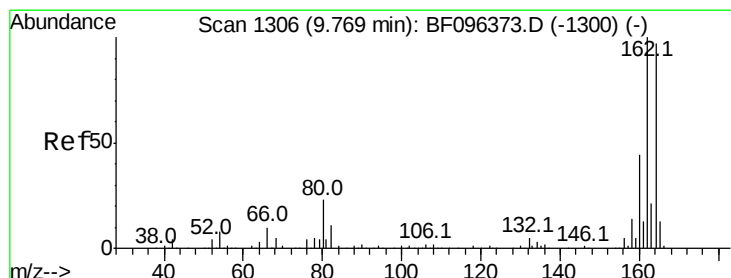
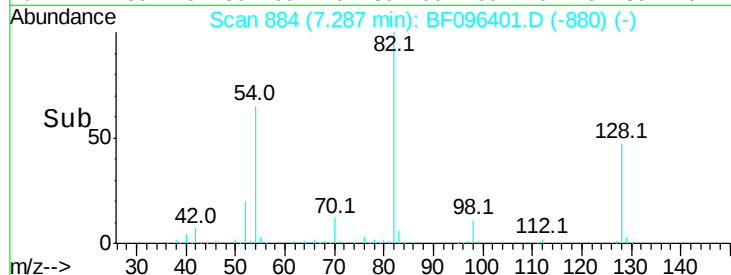
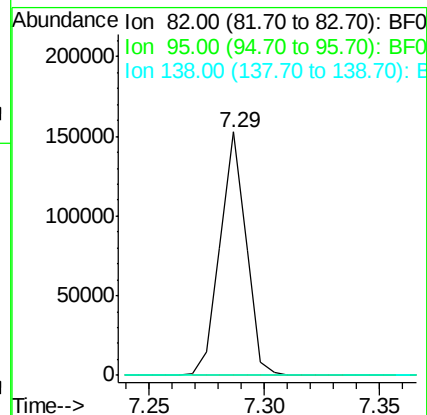
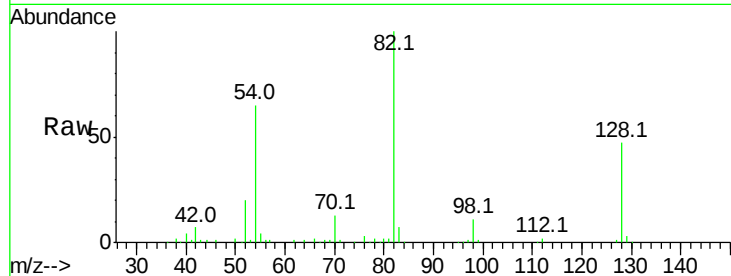
Tot Ion: 82 Resp: 119101

Ion Ratio Lower Upper

82 100

95 0.3 5.3 7.9#

138 0.0 13.1 19.7#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.77 min Scan# 1306

Delta R.T. -0.00 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

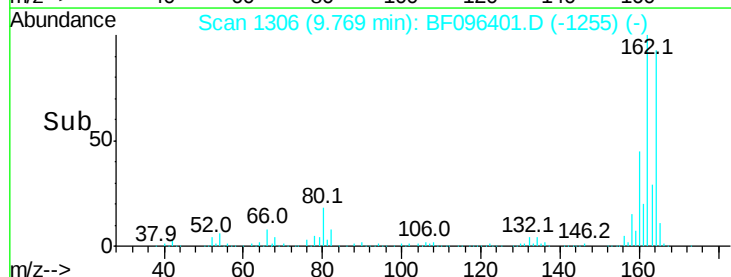
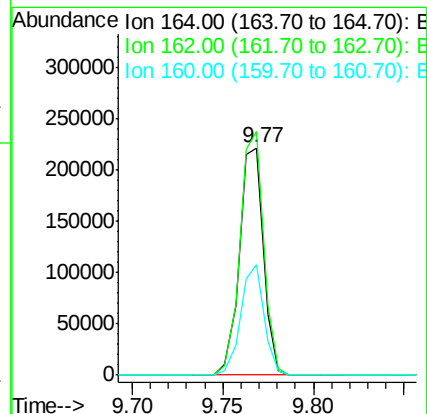
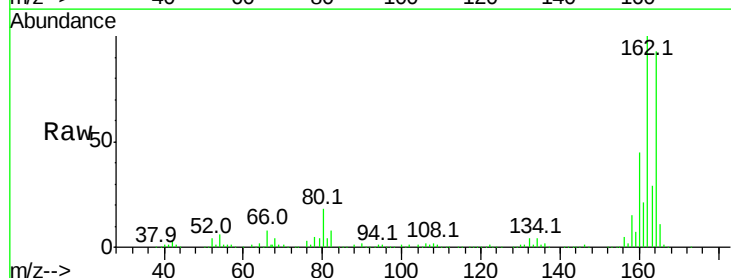
Tgt Ion: 164 Resp: 204775

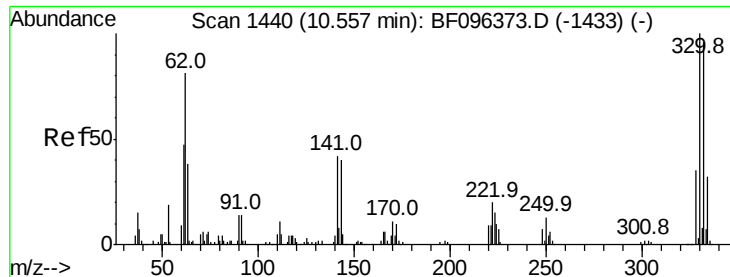
Ion Ratio Lower Upper

164 100

162 107.0 82.6 123.8

160 48.7 36.2 54.2





#41

2,4,6-Tribromophenol

Concen: 20.75 ng

RT: 10.55 min Scan# 1439

Delta R.T. -0.01 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

Instrument :

BNA_F

ClientSampleId :

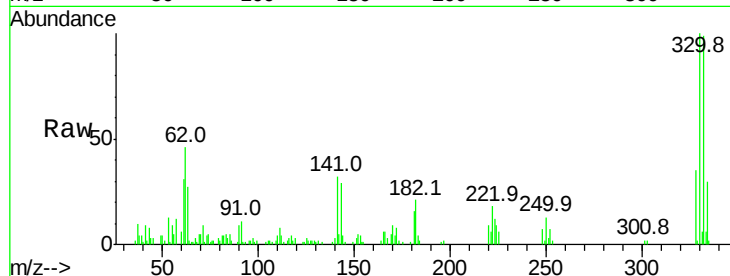
Tot Ion:330 Resp: 33185

Ion Ratio Lower Upper

330 100

332 97.0 76.6 115.0

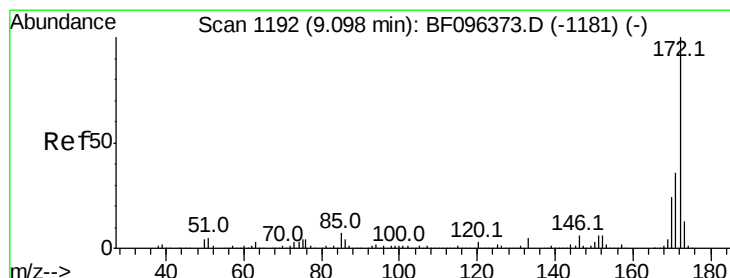
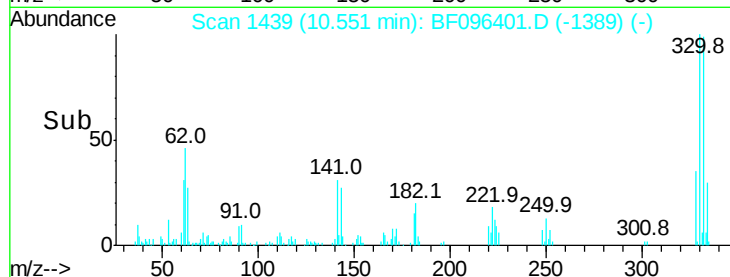
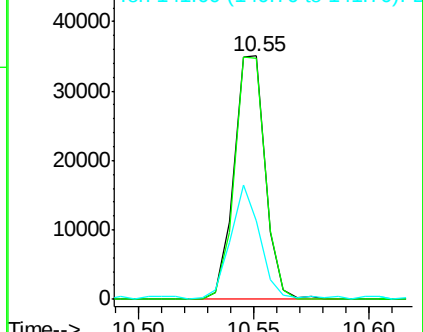
141 45.3 31.4 47.2



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: 16.67 ng

RT: 9.09 min Scan# 1190

Delta R.T. -0.01 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

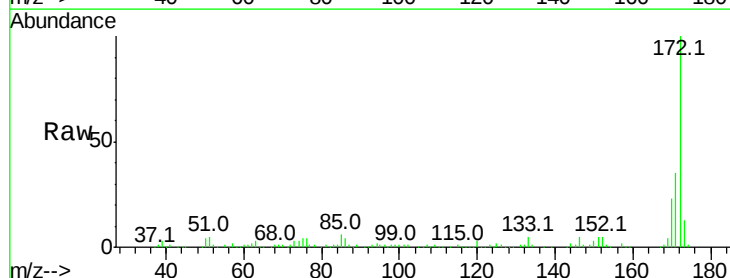
Tgt Ion:172 Resp: 199648

Ion Ratio Lower Upper

172 100

171 35.4 29.6 44.4

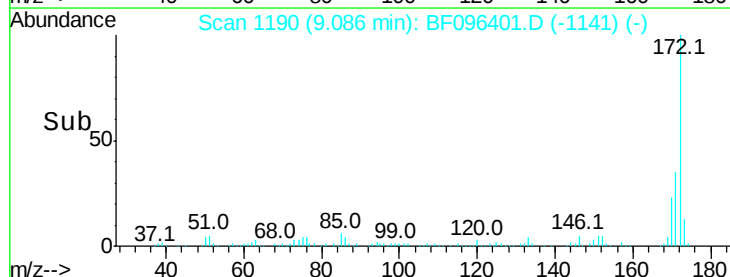
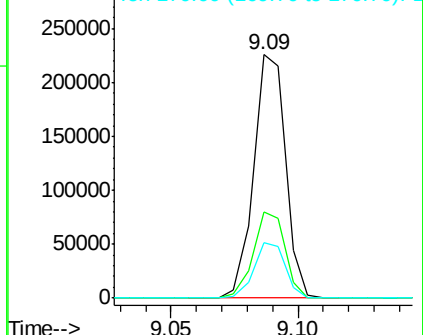
170 22.5 19.8 29.8

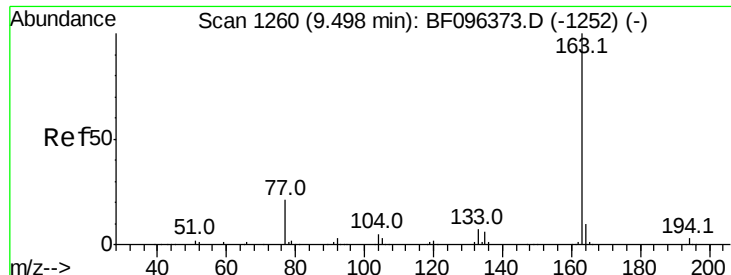


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

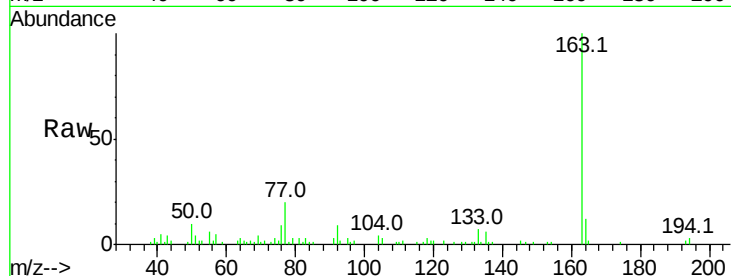




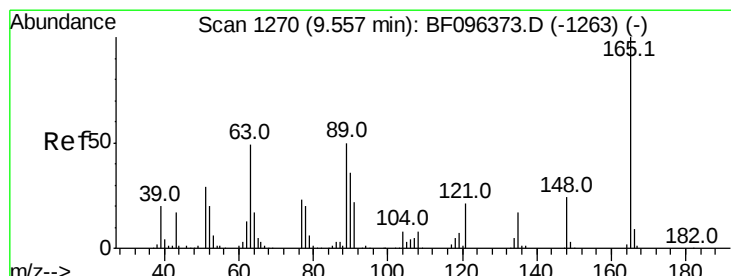
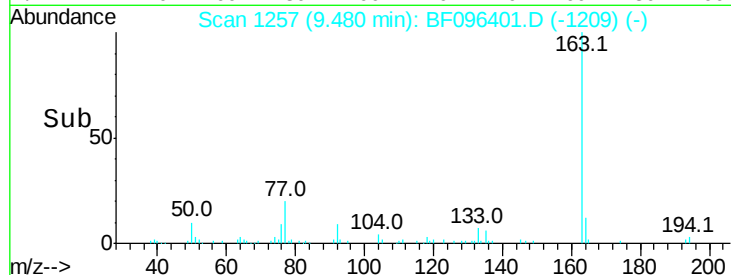
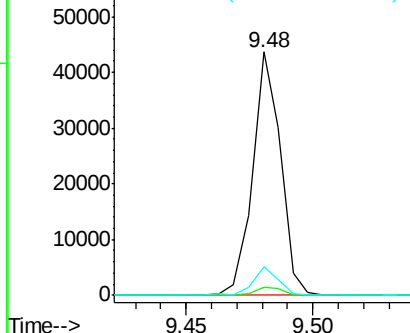
#49
Dimethylphthalate
Concen: 2.19 ng
RT: 9.48 min Scan# 1257
Delta R.T. -0.02 min
Lab File: BF096401.D
Acq: 2 Jul 2017 1:40

Instrument :
BNA_F
ClientSampled :

Tot Ion:163 Resp: 33504
Ion Ratio Lower Upper
163 100
194 3.4 2.6 4.0
164 11.6 8.4 12.6

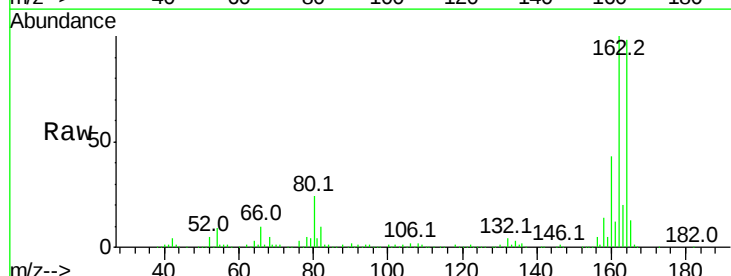


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

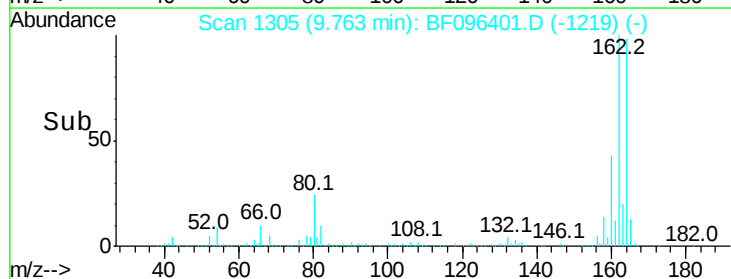
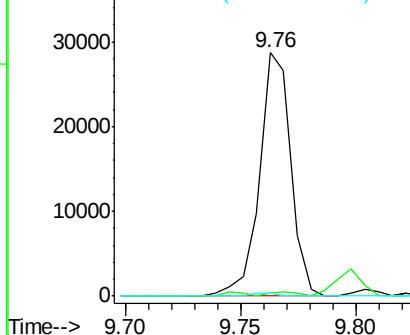


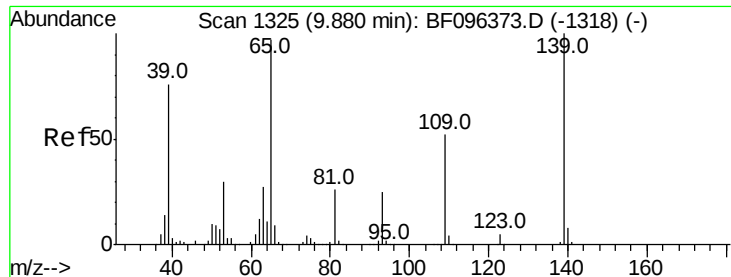
#50
2,6-Dinitrotoluene
Concen: 8.01 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.21 min
Lab File: BF096401.D
Acq: 2 Jul 2017 1:40

Tgt Ion:165 Resp: 27084
Ion Ratio Lower Upper
165 100
63 1.3 34.3 51.5#
89 1.1 37.1 55.7#



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





#55

4-Nitrophenol

Concen: 2.54 ng

RT: 9.97 min Scan# 1340

Delta R.T. 0.09 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

Instrument :

BNA_F

ClientSampleId :

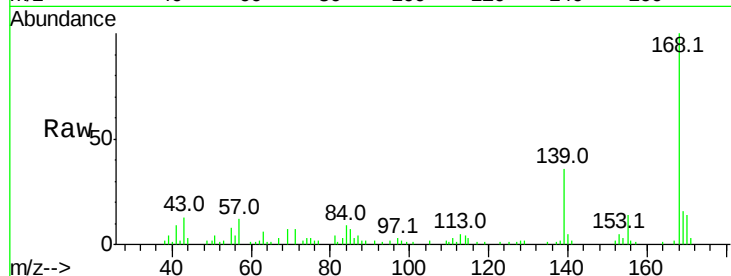
Tot Ion:139 Resp: 8890

Ion Ratio Lower Upper

139 100

109 5.7 34.1 74.1#

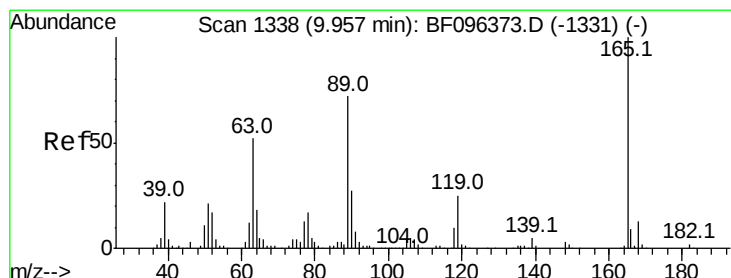
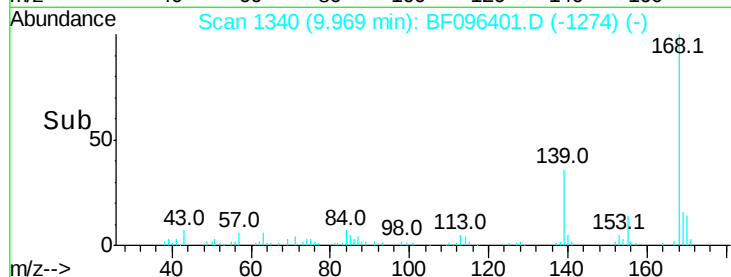
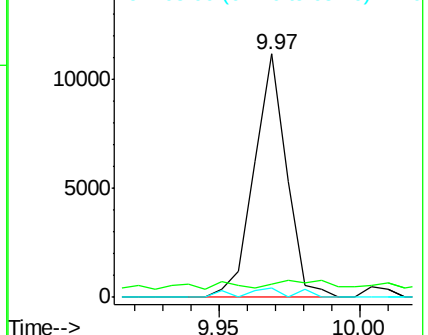
65 3.9 31.4 71.4#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#56

2,4-Dinitrotoluene

Concen: 6.33 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.19 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

Tgt Ion:165 Resp: 27084

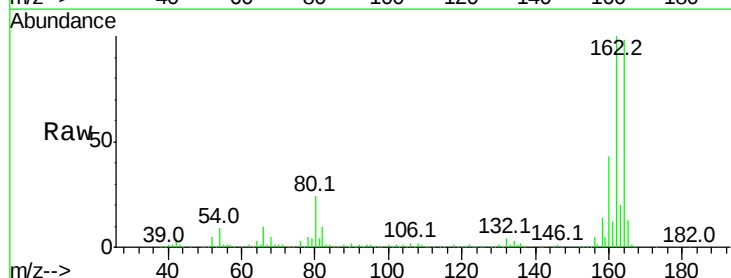
Ion Ratio Lower Upper

165 100

63 1.3 25.4 38.0#

89 1.1 46.4 69.6#

182 1.2 1.8 2.6#

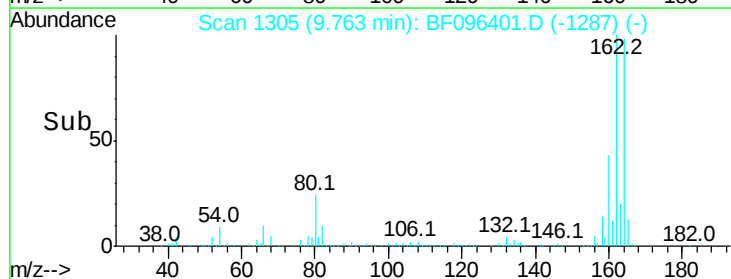
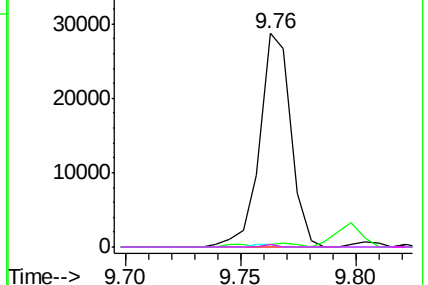


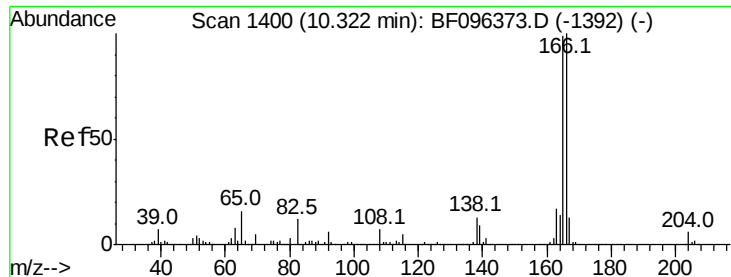
Abundance Ion 165.00 (164.70 to 165.70): E

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

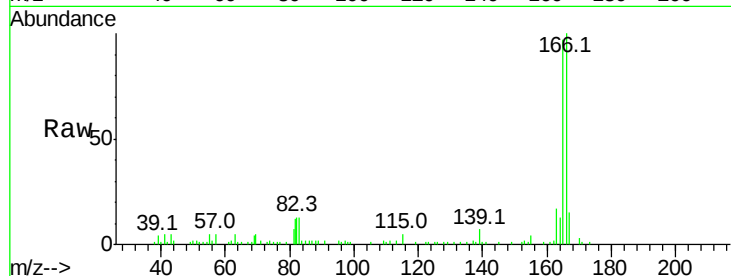




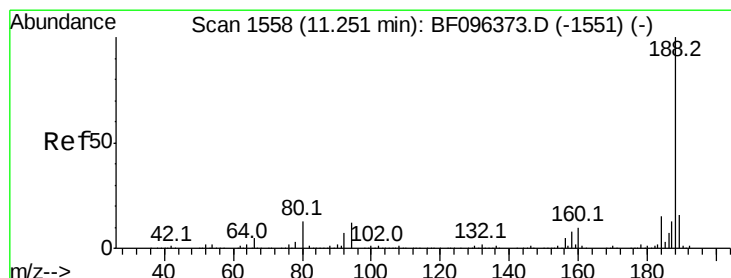
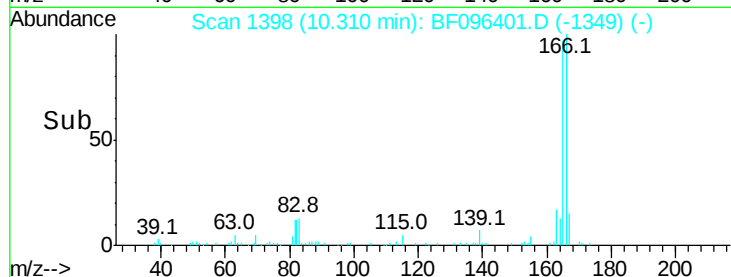
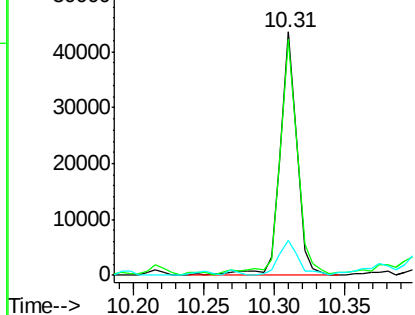
#57
Fluorene
 Concen: 3.04 ng
 RT: 10.31 min Scan# 1398
 Delta R.T. -0.01 min
 Lab File: BF096401.D
 Acq: 2 Jul 2017 1:40

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:166 Resp: 36256
 Ion Ratio Lower Upper
 166 100
 165 96.9 78.8 118.2
 167 14.6 10.6 16.0

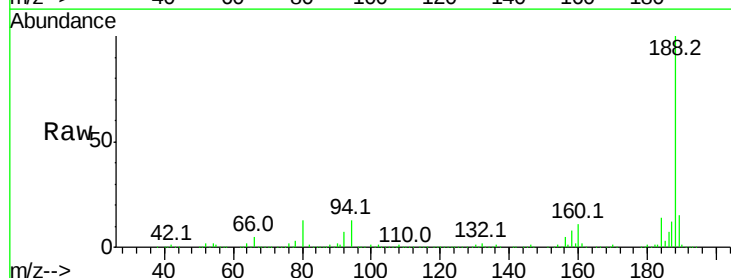


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

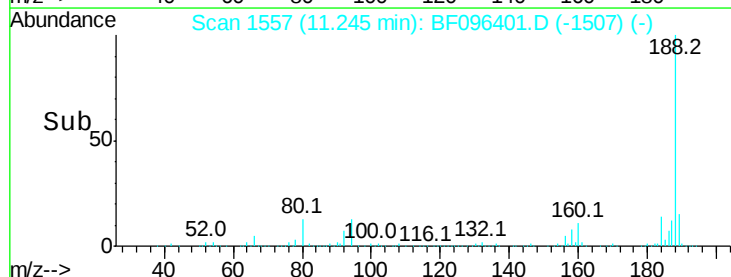
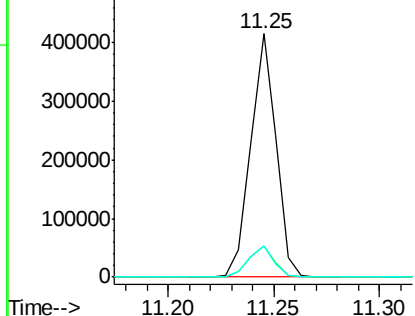


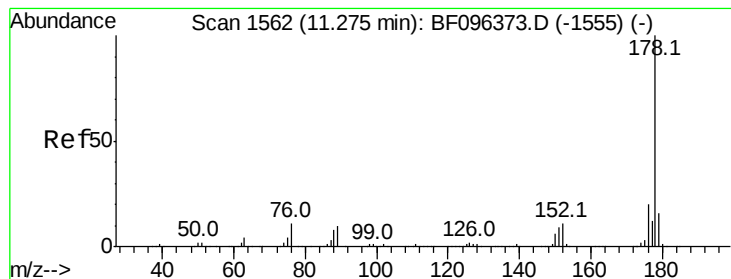
#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.25 min Scan# 1557
 Delta R.T. -0.01 min
 Lab File: BF096401.D
 Acq: 2 Jul 2017 1:40

Tgt Ion:188 Resp: 346628
 Ion Ratio Lower Upper
 188 100
 94 12.8 9.4 14.2
 80 12.9 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: 14.04 ng

RT: 11.27 min Scan# 1561

Delta R.T. -0.01 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

Instrument :

BNA_F

ClientSampleId :

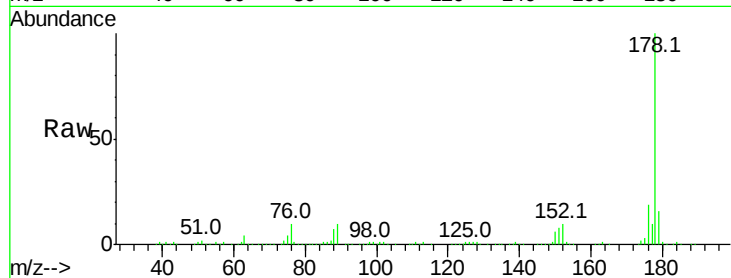
Tot Ion:178 Resp: 263138

Ion Ratio Lower Upper

178 100

176 19.2 16.2 24.4

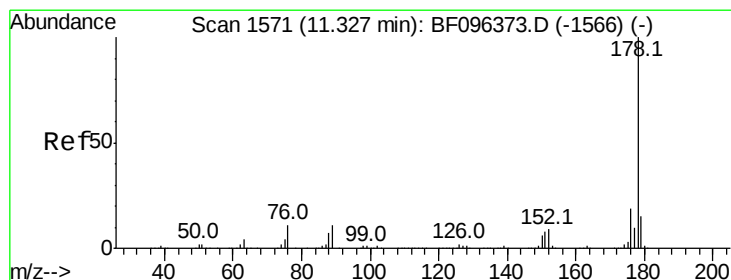
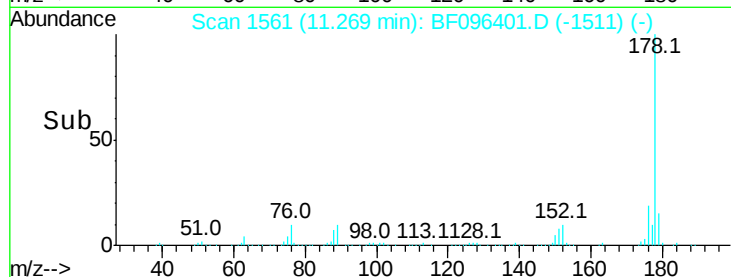
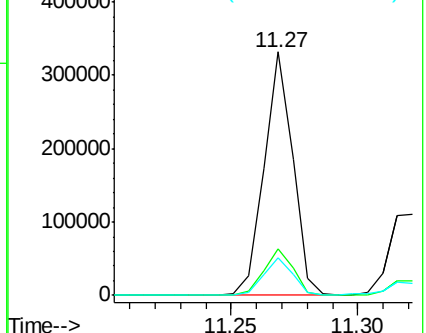
179 15.6 12.6 19.0



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: 5.40 ng

RT: 11.32 min Scan# 1570

Delta R.T. -0.01 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

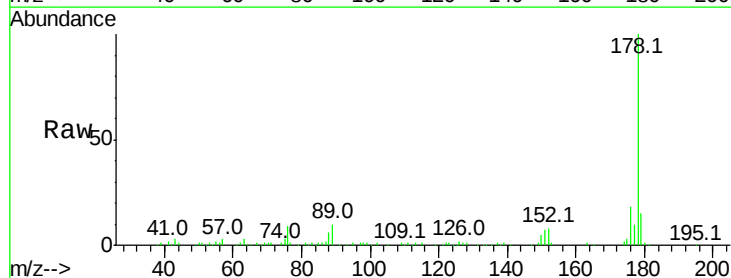
Tgt Ion:178 Resp: 103165

Ion Ratio Lower Upper

178 100

176 18.4 15.8 23.8

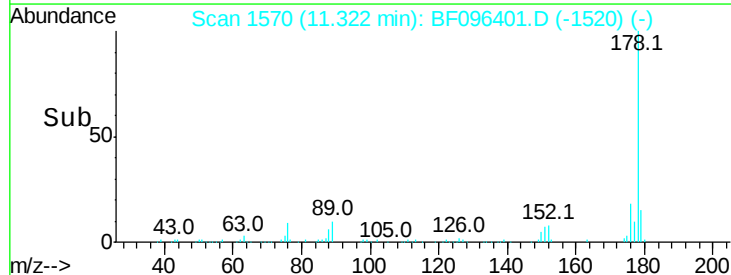
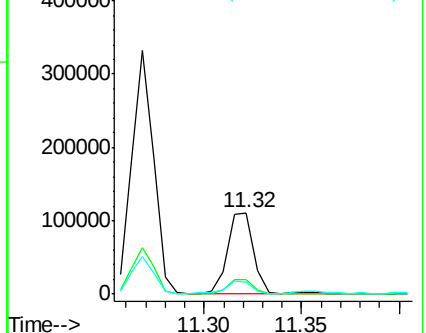
179 15.3 12.7 19.1

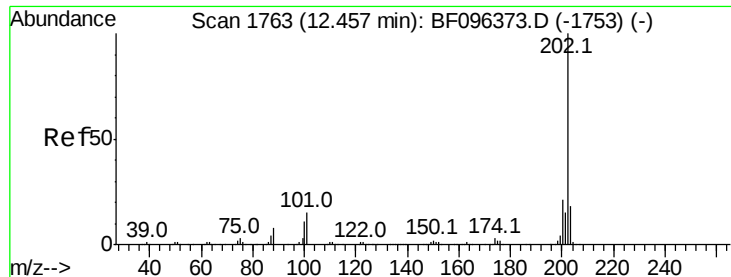


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 23.64 ng

RT: 12.46 min Scan# 1763

Delta R.T. -0.00 min

Lab File: BF096401.D

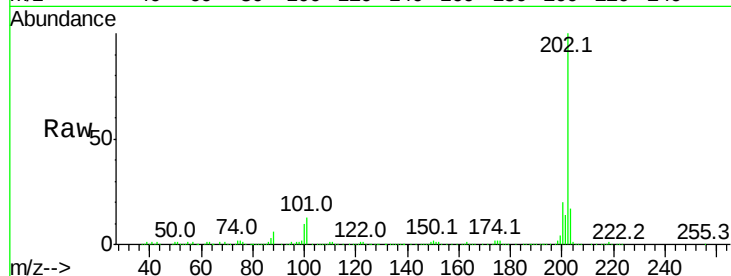
Acq: 2 Jul 2017 1:40

Instrument :

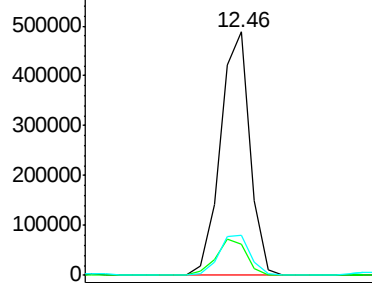
BNA_F

ClientSampleId :

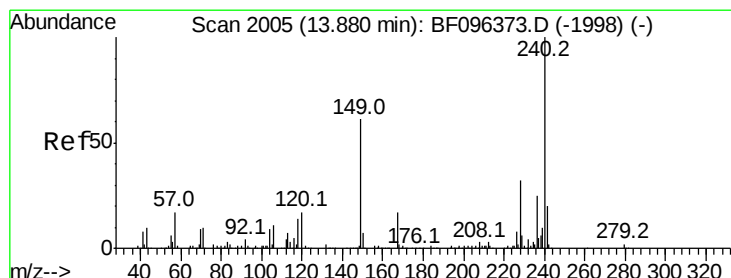
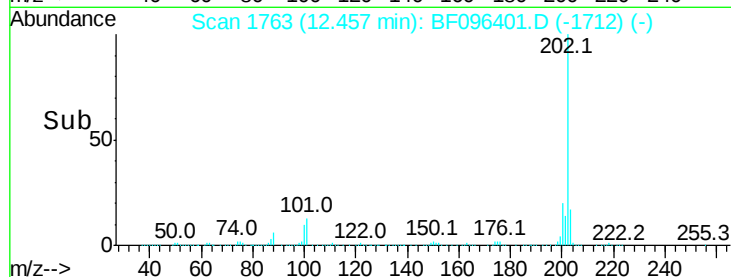
Tot Ion:	202	Resp:	434225
Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	33.2
203	16.7	0.0	38.1



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



Time-->



#75

Chrysene-d12

Concen: 20.00 ng

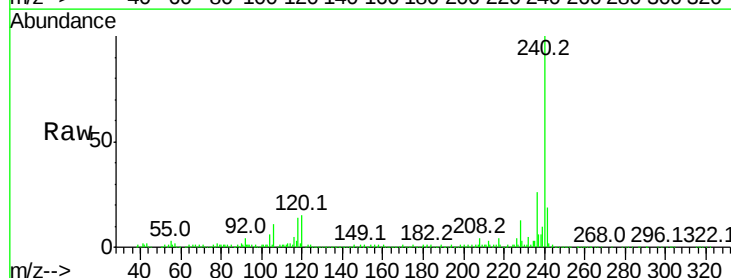
RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

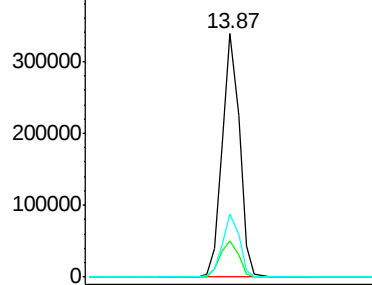
Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

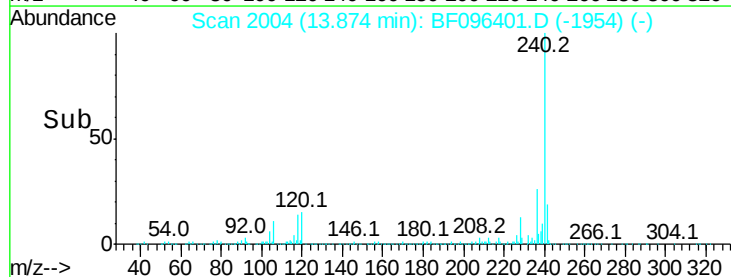
Tgt Ion:	240	Resp:	298824
Ion	Ratio	Lower	Upper
240	100		
120	15.1	5.8	8.8#
236	26.0	20.5	30.7

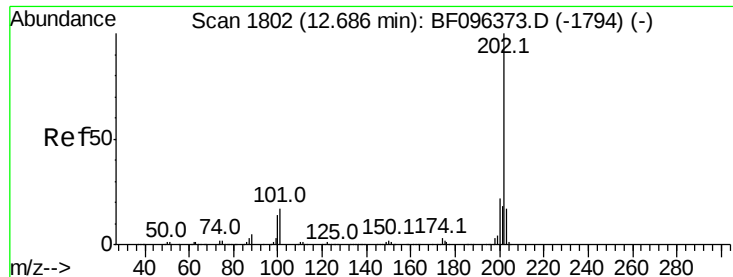


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



Time-->





#77

Pvrene

Concen: 16.85 ng

RT: 12.68 min Scan# 1801

Delta R.T. -0.01 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

Instrument :

BNA_F

ClientSampleId :

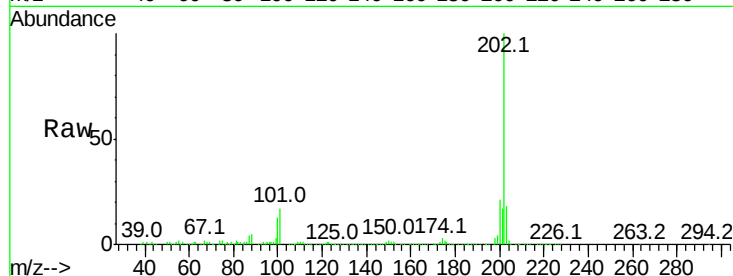
Tot Ion:202 Resp: 404059

Ion Ratio Lower Upper

202 100

200 21.1 17.6 26.4

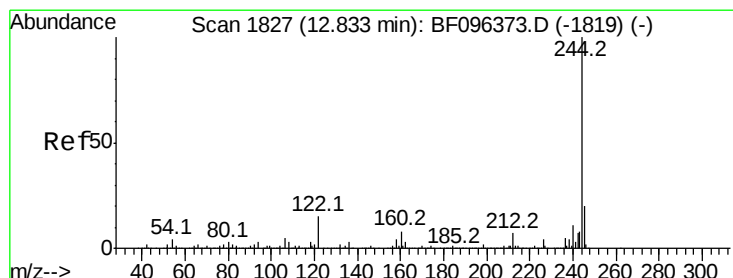
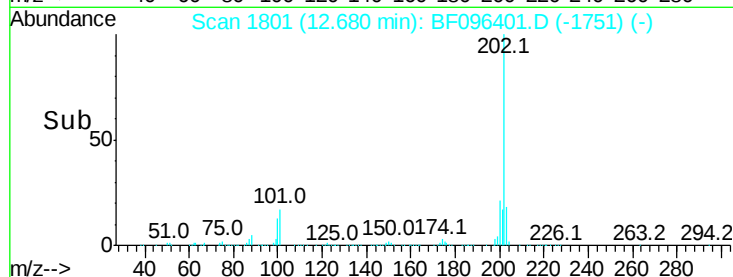
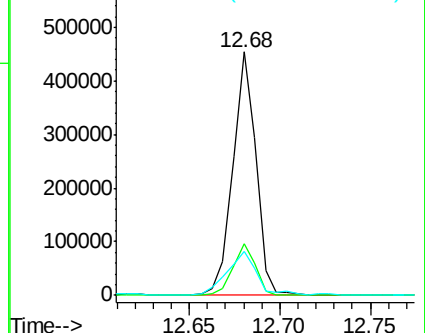
203 18.1 14.4 21.6



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: 12.17 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

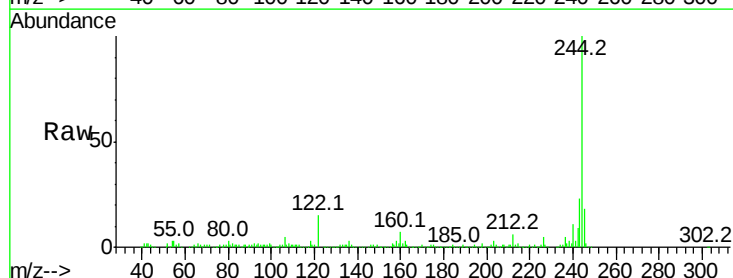
Tgt Ion:244 Resp: 170252

Ion Ratio Lower Upper

244 100

212 6.3 6.0 9.0

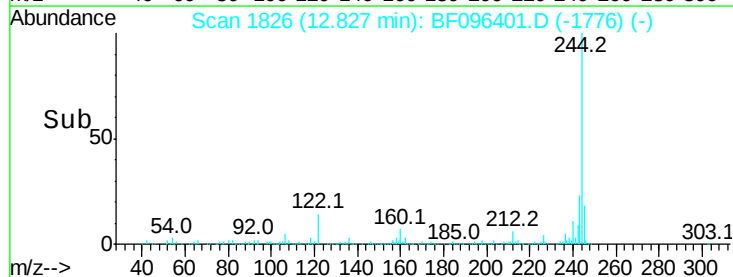
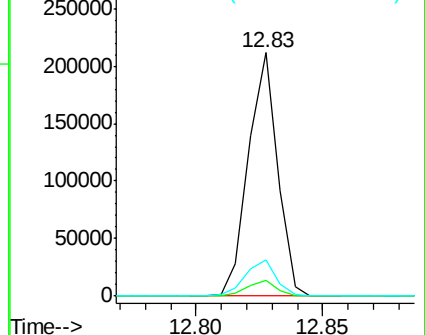
122 14.7 10.3 15.5

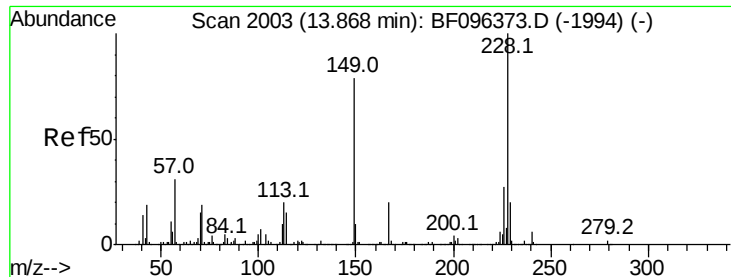


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 9.46 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

Instrument :

BNA_F

ClientSampleId :

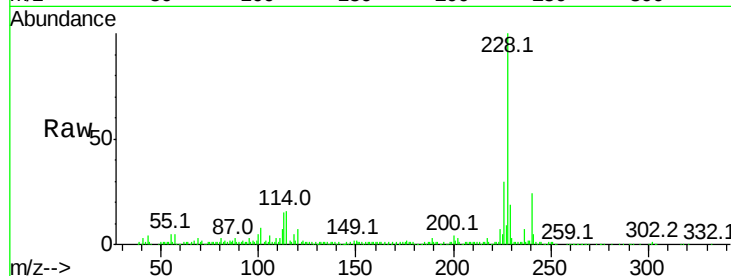
Tot Ion:228 Resp: 163636

Ion Ratio Lower Upper

228 100

226 29.6 22.6 33.8

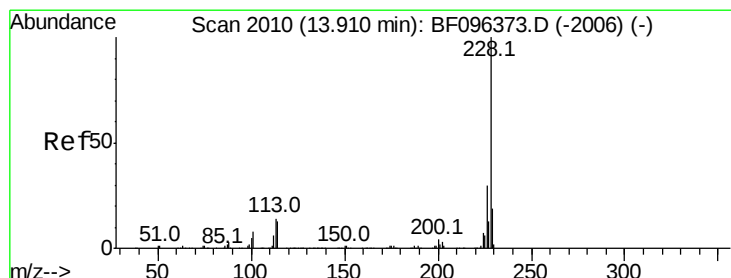
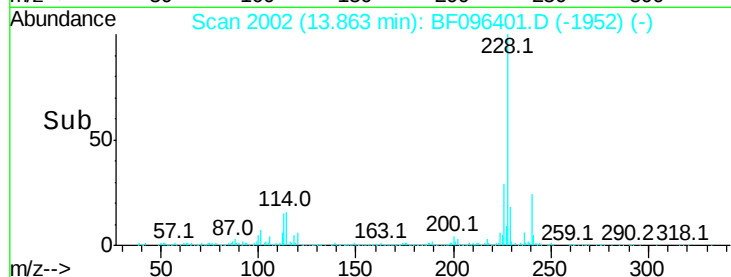
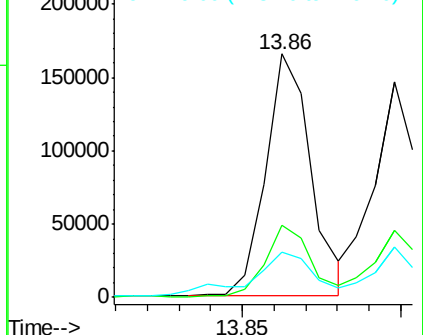
229 18.8 16.3 24.5



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: 7.58 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

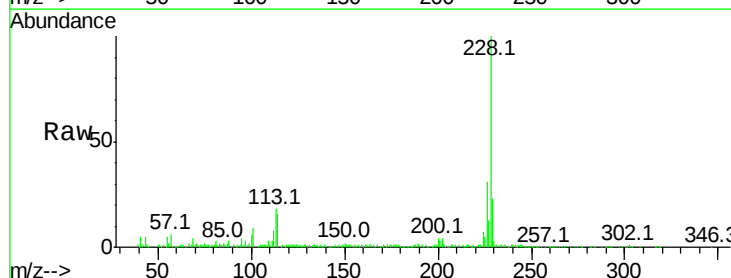
Tgt Ion:228 Resp: 137419

Ion Ratio Lower Upper

228 100

226 31.2 24.9 37.3

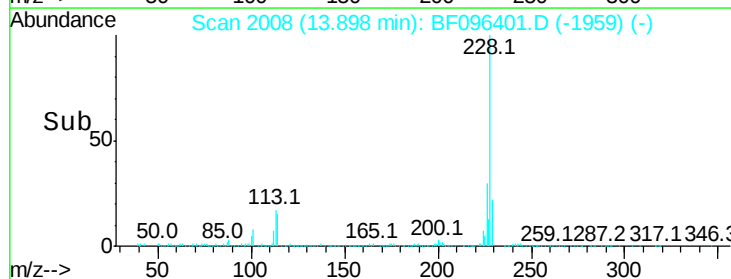
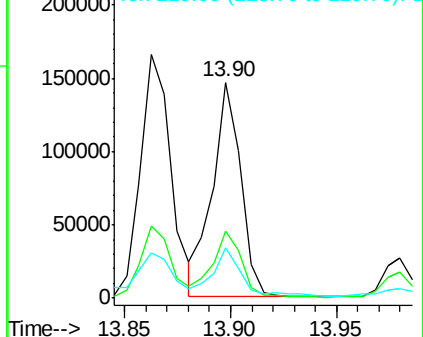
229 23.3 15.8 23.6

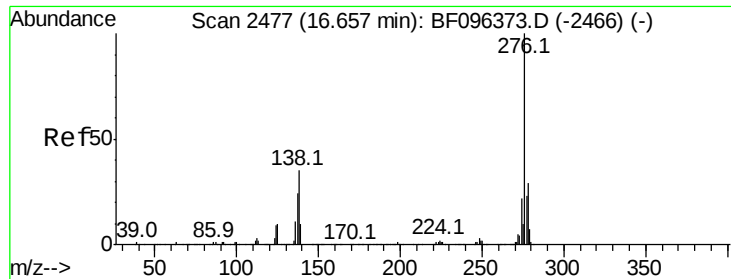


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

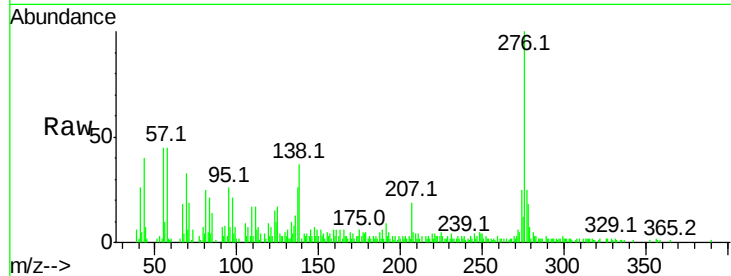




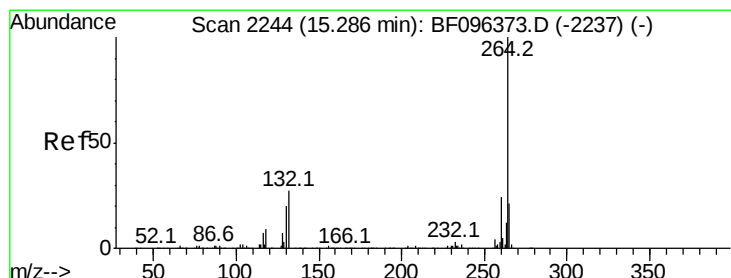
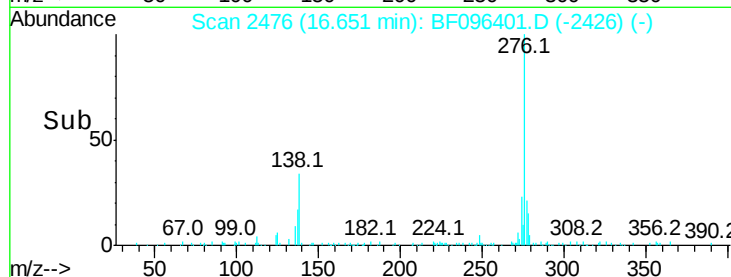
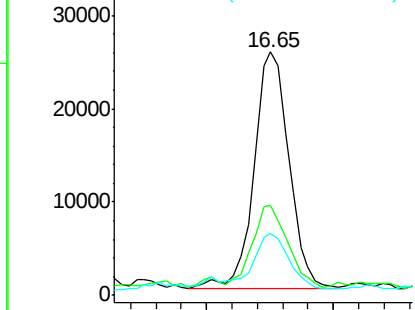
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.43 ng
 RT: 16.65 min Scan# 2476
 Delta R.T. -0.01 min
 Lab File: BF096401.D
 Acq: 2 Jul 2017 1:40

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	34.2	27.8	41.6
277	23.3	20.2	30.4

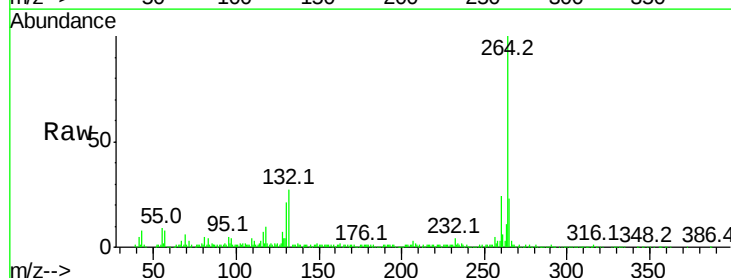


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

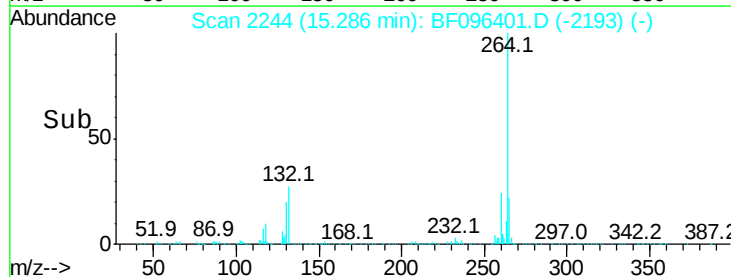
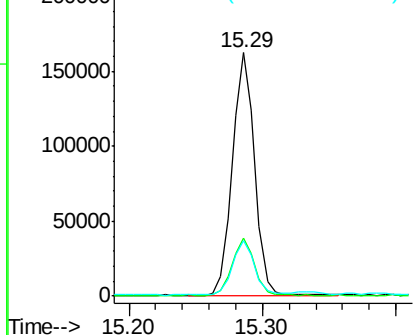


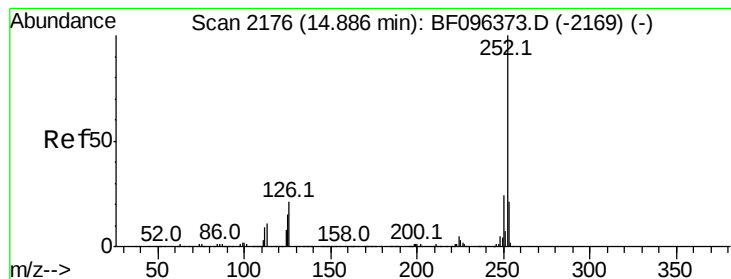
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.29 min Scan# 2244
 Delta R.T. -0.00 min
 Lab File: BF096401.D
 Acq: 2 Jul 2017 1:40

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.5	29.3
265	22.7	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: 15.04 ng

RT: 14.89 min Scan# 2176

Delta R.T. -0.00 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

Instrument :

BNA_F

ClientSampleId :

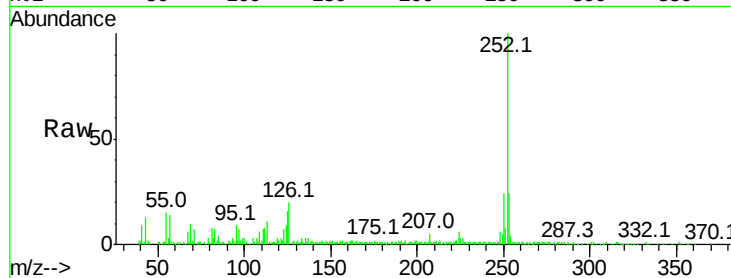
Tot Ion:252 Resp: 177586

Ion Ratio Lower Upper

252 100

253 23.7 18.1 27.1

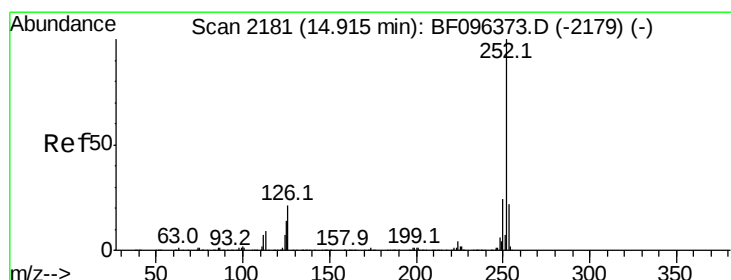
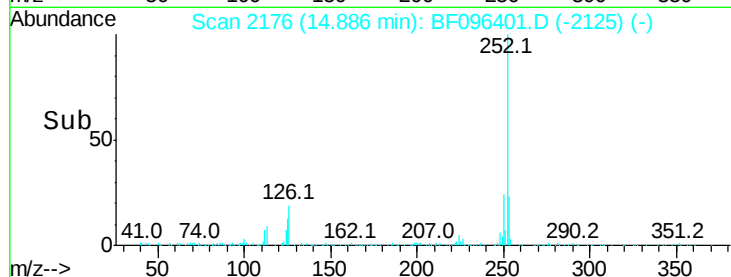
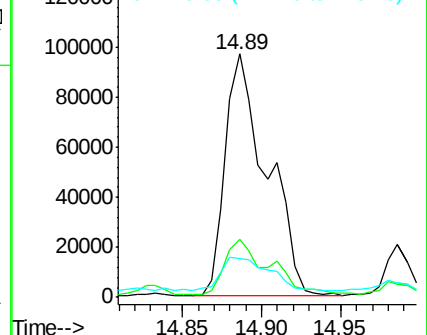
125 16.1 9.8 14.8#



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: 16.82 ng

RT: 14.89 min Scan# 2176

Delta R.T. -0.03 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

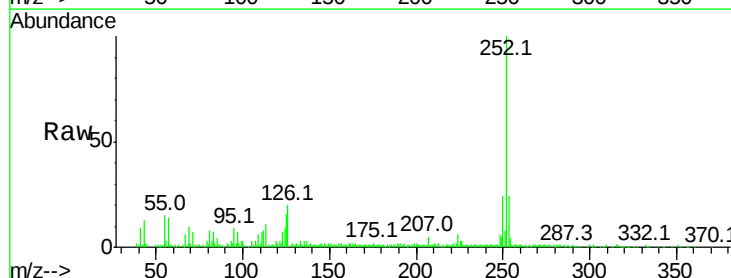
Tgt Ion:252 Resp: 177586

Ion Ratio Lower Upper

252 100

253 23.7 18.4 27.6

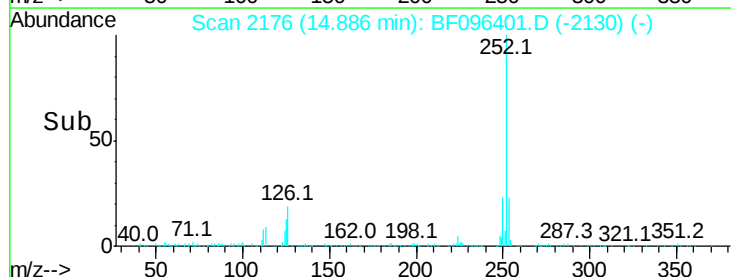
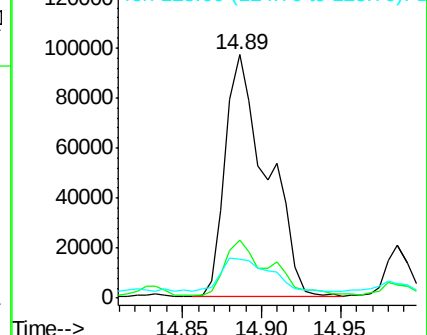
125 16.1 13.1 19.7

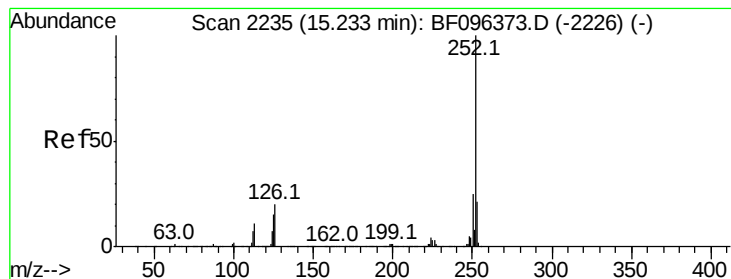


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 9.12 ng

RT: 15.23 min Scan# 2234

Delta R.T. -0.01 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

Instrument :

BNA_F

ClientSampleId :

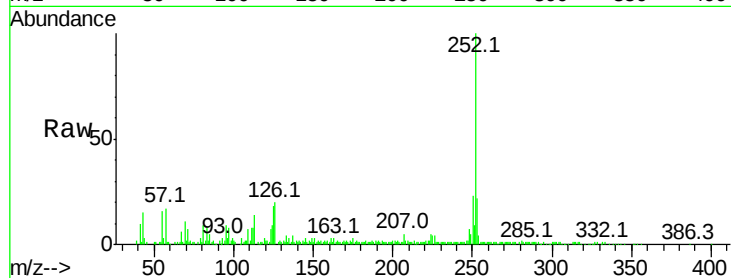
Tot Ion:252 Resp: 96079

Ion Ratio Lower Upper

252 100

253 21.6 17.5 26.3

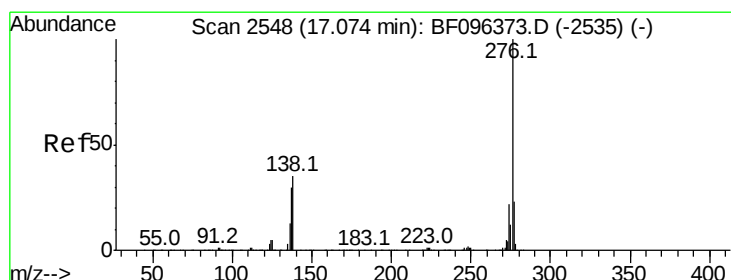
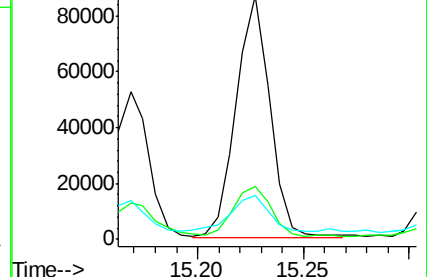
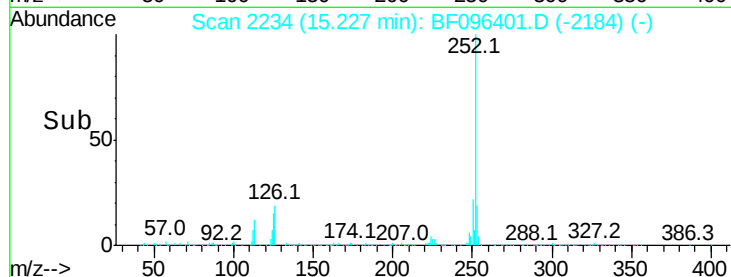
125 18.2 11.0 16.4#



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(g,h,i)perylene

Concen: 5.63 ng

RT: 17.06 min Scan# 2546

Delta R.T. -0.01 min

Lab File: BF096401.D

Acq: 2 Jul 2017 1:40

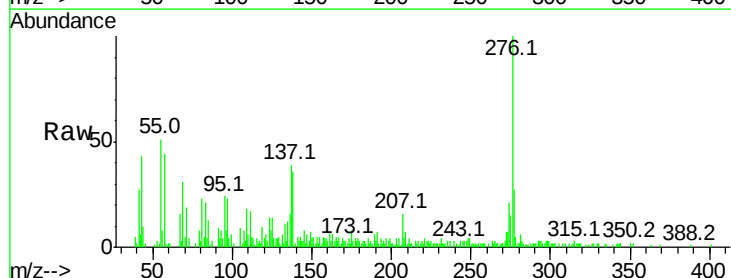
Tgt Ion:276 Resp: 48394

Ion Ratio Lower Upper

276 100

277 27.0 18.6 28.0

138 35.7 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

