

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080915\
 Data File : BG018342.D
 Acq On : 9 Aug 2015 23:34
 Operator : UM/TP
 Sample : G3136-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C02F6

Quant Time: Aug 10 02:22:44 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 10 02:20:20 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.08	152	157093	20.00	ng/ul	0.01
18) Naphthalene-d8	10.88	136	685454	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.69	164	389539	20.00	ng/ul	0.01
62) Phenanthrene-d10	17.44	188	796309	20.00	ng/ul	0.02
78) Chrysene-d12	21.72	240	607904	20.00	ng/ul	0.03
86) Perylene-d12	25.02	264	601509	20.00	ng/ul	0.10

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.53	96	4829	1.37	ng/uL	0.00
5) Phenol-d5	7.23	99	111513	7.90	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	7.40	67	74096	8.41	ng/ul	0.00
9) 2-Chlorophenol-d4	7.61	132	90672	8.34	ng/ul	0.01
13) 4-Methylphenol-d8	8.77	113	93634	7.87	ng/ul	0.01
19) Nitrobenzene-d5	9.23	128	47250	9.00	ng/ul	0.00
22) 2-Nitrophenol-d4	9.95	143	50936	9.59	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.49	165	98000	8.55	ng/ul	0.00
29) 4-Chloroaniline-d4	11.01	131	46415	3.63	ng/ul	0.00
44) Dimethylphthalate-d6	14.10	166	291506	8.96	ng/ul	0.00
47) Acenaphthylene-d8	14.39	160	353993	8.69	ng/ul	0.01
52) 4-Nitrophenol-d4	14.87	143	31027	5.31	ng/ul	0.01
58) Fluorene-d10	15.68	176	238645	8.45	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.79	200	7556	1.94	ng/ul	0.00
71) Anthracene-d10	17.54	188	328263	8.69	ng/ul	0.01
79) Pyrene-d10	19.83	212	306983	9.82	ng/ul	0.02
90) Benzo(a)pyrene-d12	24.78	264	275897	8.69	ng/ul	0.08

Target Compounds

						Qvalue
4) Benzaldehyde	7.23	77	10709	1.28	ng/ul#	1
14) Acetophenone	8.89	105	25841	1.51	ng/ul#	64
16) 4-Methylphenol	8.83	108	27856	2.27	ng/ul	96
17) Hexachloroethane	9.18	117	7380	1.55	ng/ul#	11
24) 2,4-Dimethylphenol	10.04	107	27034	2.01	ng/ul	96
28) Naphthalene	10.93	128	321027	8.98	ng/ul	99
34) 2-Methylnaphthalene	12.53	142	274011	10.59	ng/ul	100
35) 1-Methylnaphthalene	12.75	142	171270	6.80	ng/ul	99
41) 1,1'-Biphenyl	13.53	154	111248	3.46	ng/ul	96
45) Dimethylphthalate	14.14	163	121478	3.79	ng/ul#	98
46) 2,6-Dinitrotoluene	14.22	165	15049	2.37	ng/ul#	43
50) Acenaphthene	14.76	153	416032	14.48	ng/ul	98
54) Dibenzofuran	15.09	168	333292	8.87	ng/ul	99
59) Fluorene	15.74	166	313766	9.70	ng/ul	97
65) N-Nitrosodiphenylamine	15.95	169	28289	1.18	ng/ul#	74
70) Phenanthrene	17.49	178	1223852	28.35	ng/ul	96
72) Anthracene	17.57	178	363961	8.28	ng/ul	97
75) Carbazole	17.84	167	134364	3.48	ng/ul#	95
76) Di-n-butylphthalate	18.41	149	108469	2.15	ng/ul#	94
77) Fluoranthene	19.50	202	1139440	24.76	ng/ul	98
80) Pyrene	19.86	202	944866	23.27	ng/ul	100
81) Butylbenzylphthalate	20.74	149	73591	4.26	ng/ul#	78
83) Benzo(a)anthracene	21.70	228	378435	10.12	ng/ul#	94

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ClientSampleId :
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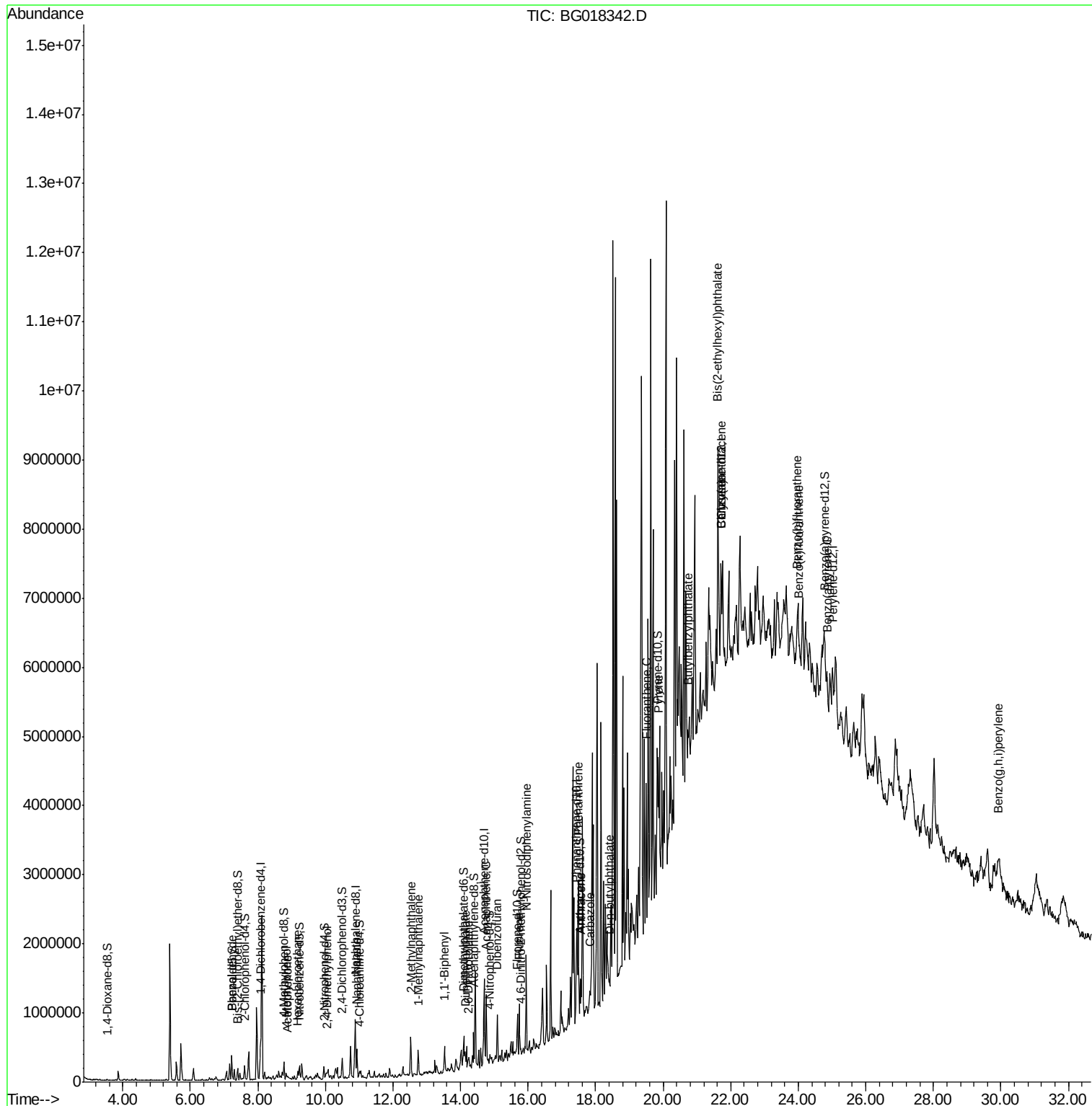
Quant Time: Aug 10 02:22:44 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 02:20:20 2015
Response via : Initial Calibration

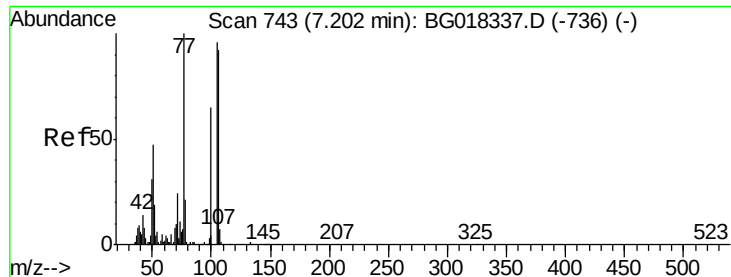
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Bis(2-ethylhexyl)phthalate	21.62	149	1322149	54.01	ng/ul	96
85) Chrysene	21.70	228	376085	10.75	ng/ul	96
88) Benzo(b)fluoranthene	23.97	252	425333	11.34	ng/ul#	54
89) Benzo(k)fluoranthene	24.03	252	137225	3.78	ng/ul#	4
91) Benzo(a)pyrene	24.86	252	290254	8.14	ng/ul#	50
94) Benzo(g,h,i)perylene	29.92	276	72492	2.09	ng/ul#	77

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

```
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#4

Benzaldehyde

Concen: 1.28 ng/ul

RT: 7.23 min Scan# 747

Delta R.T. 0.02 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

Instrument :

BNA_G

ClientSampled :

C02F6

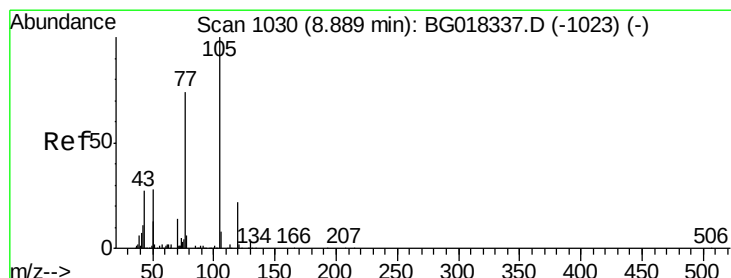
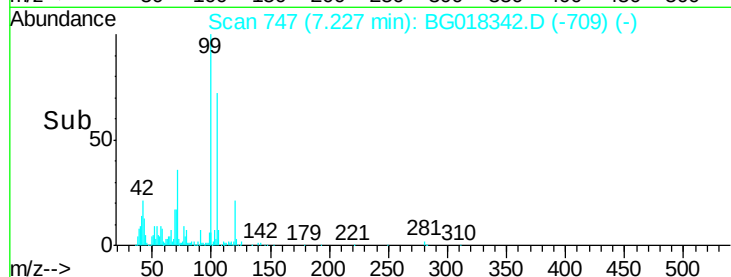
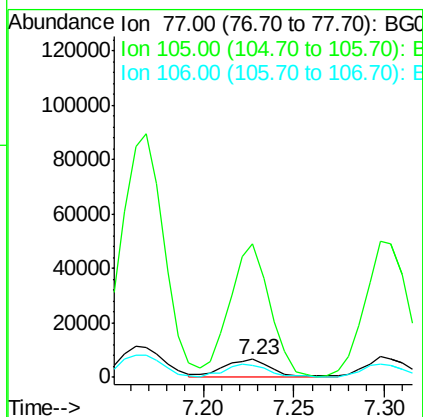
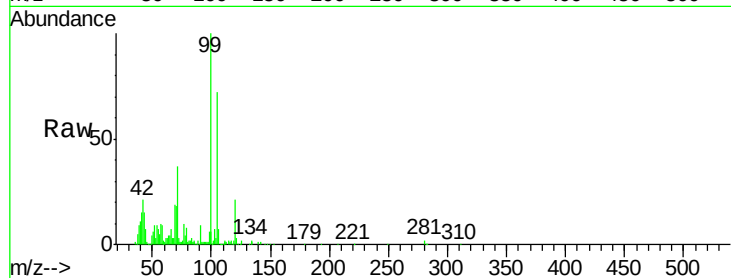
Tgt Ion: 77 Resp: 10709

Ion Ratio Lower Upper

77 100

105 732.1 74.6 112.0#

106 66.4 73.4 110.0#



#14

Acetophenone

Concen: 1.51 ng/ul

RT: 8.89 min Scan# 1030

Delta R.T. 0.00 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

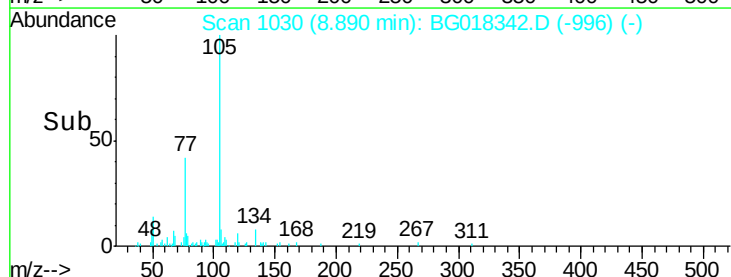
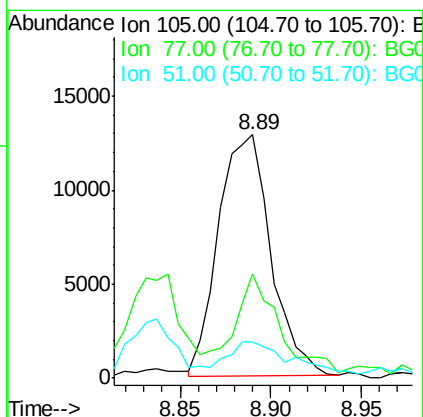
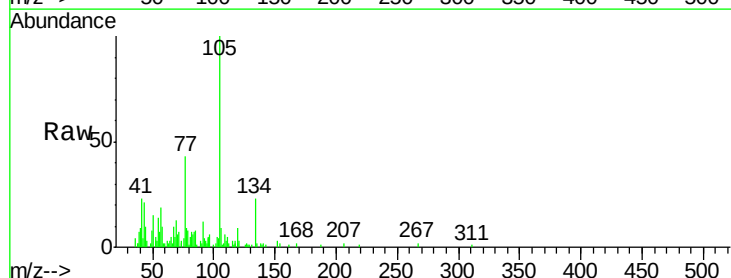
Tgt Ion: 105 Resp: 25841

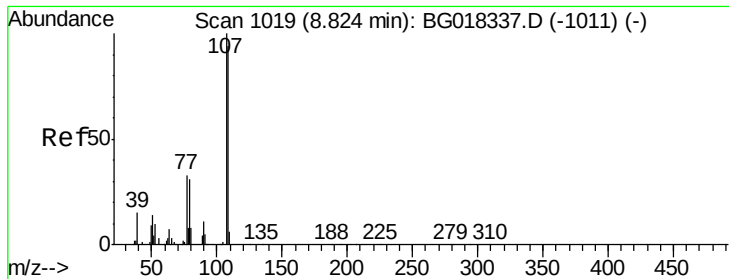
Ion Ratio Lower Upper

105 100

77 42.7 61.7 92.5#

51 14.8 24.0 36.0#





#16

4-Methylphenol

Concen: 2.27 ng/ul

RT: 8.83 min Scan# 1020

Delta R.T. 0.01 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

Instrument :

BNA_G

ClientSampleId :

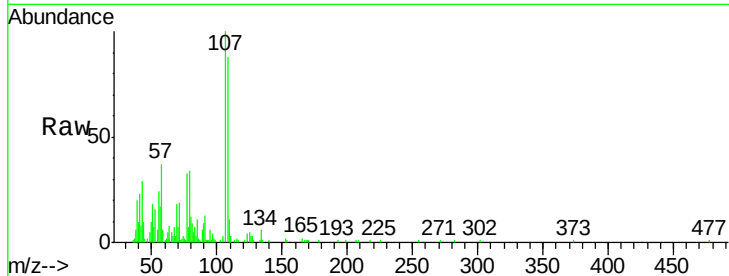
C02F6

Tgt Ion:108 Resp: 27856

Ion Ratio Lower Upper

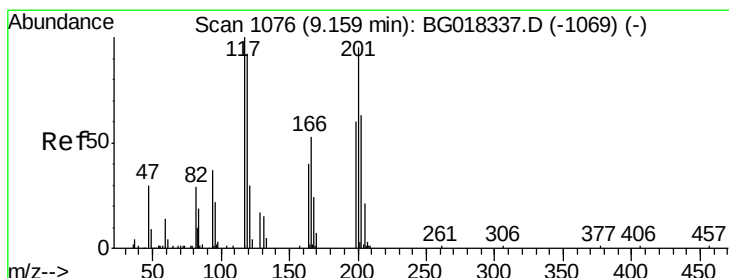
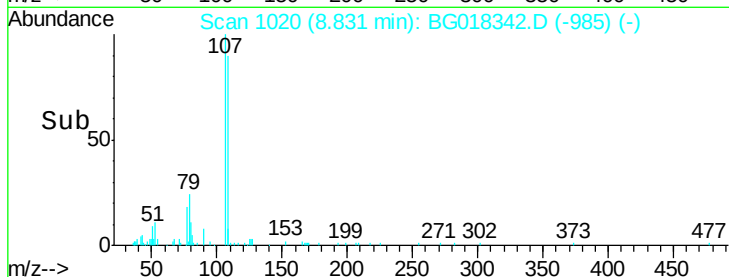
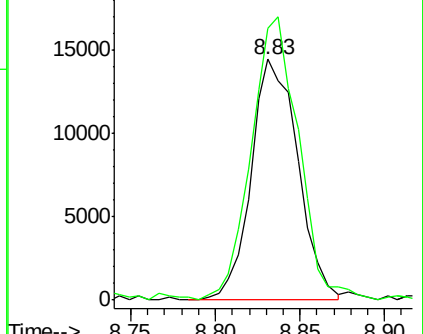
108 100

107 113.0 86.9 130.3



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E



#17

Hexachloroethane

Concen: 1.55 ng/ul

RT: 9.18 min Scan# 1080

Delta R.T. 0.02 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

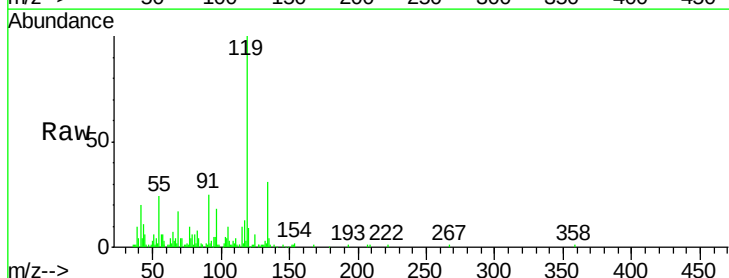
Tgt Ion:117 Resp: 7380

Ion Ratio Lower Upper

117 100

201 0.0 70.4 105.6#

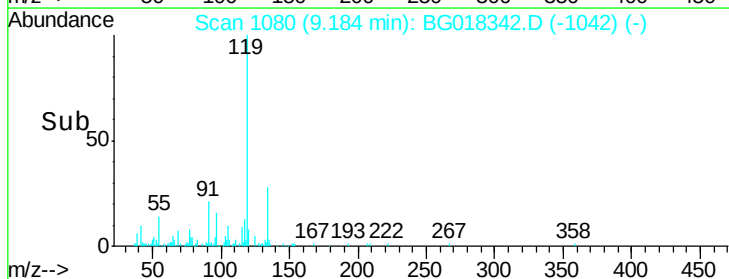
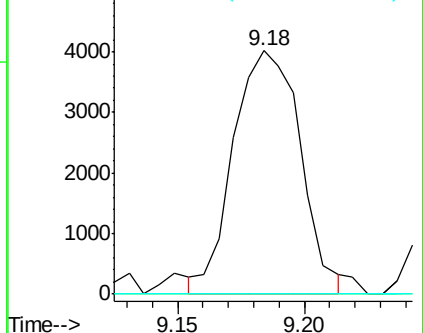
199 0.0 50.6 75.8#

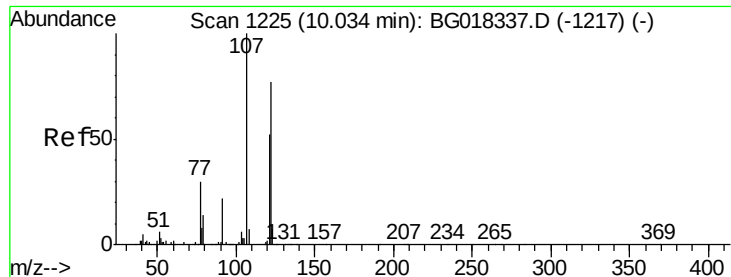


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E

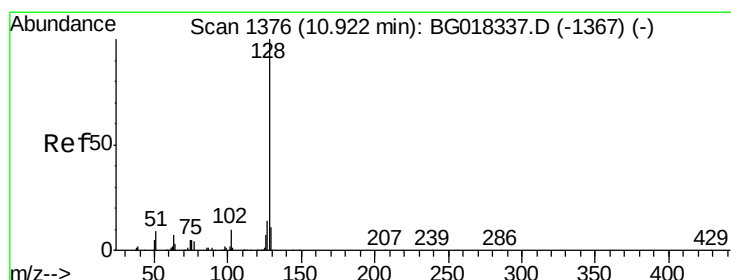
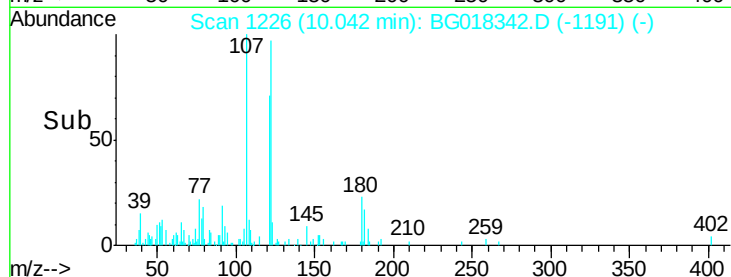
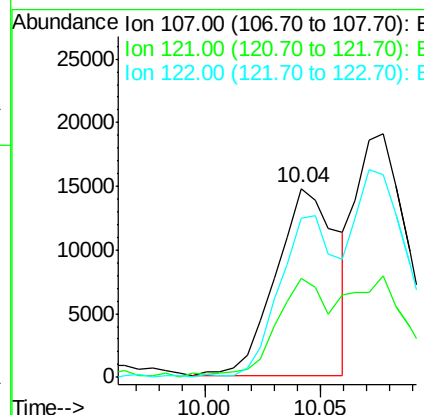
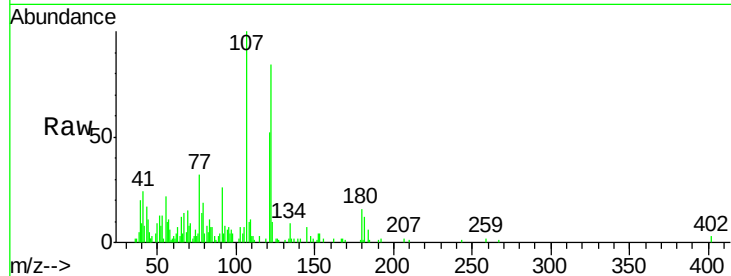




#24
2,4-Dimethylphenol
Concen: 2.01 ng/ul
RT: 10.04 min Scan# 1226
Delta R.T. 0.01 min
Lab File: BG018342.D
Acq: 9 Aug 2015 23:34

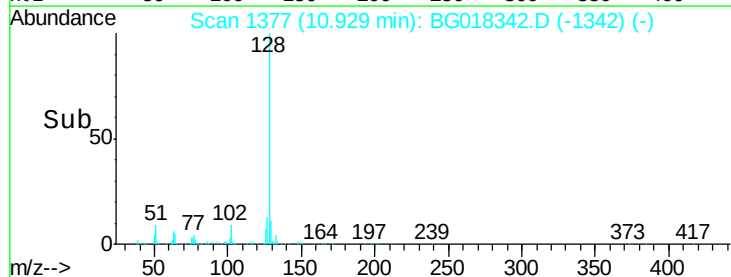
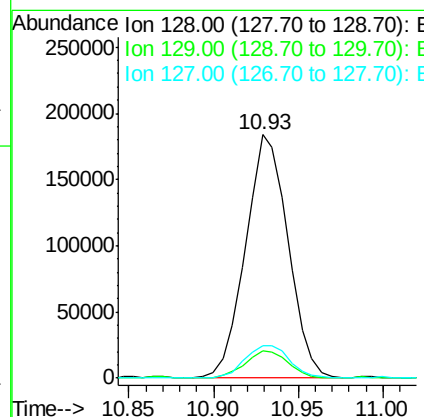
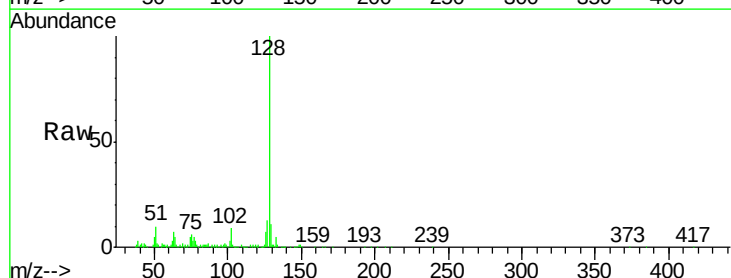
Instrument :
BNA_G
ClientSampleId :
C02F6

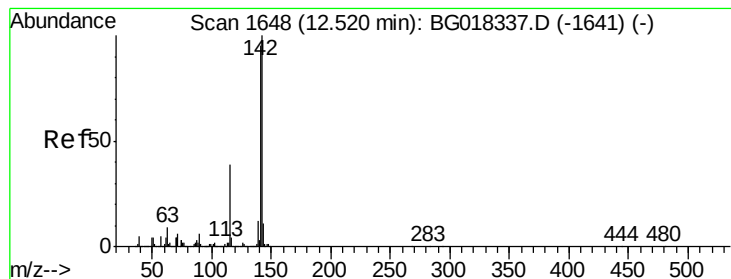
Tgt Ion:107 Resp: 27034
Ion Ratio Lower Upper
107 100
121 52.1 40.5 60.7
122 84.4 70.9 106.3



#28
Naphthalene
Concen: 8.98 ng/ul
RT: 10.93 min Scan# 1377
Delta R.T. 0.01 min
Lab File: BG018342.D
Acq: 9 Aug 2015 23:34

Tgt Ion:128 Resp: 321027
Ion Ratio Lower Upper
128 100
129 11.1 8.6 13.0
127 13.2 10.8 16.2





#34

2-Methylnaphthalene

Concen: 10.59 ng/ul

RT: 12.53 min Scan# 1649

Delta R.T. 0.01 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

Instrument :

BNA_G

ClientSampleId :

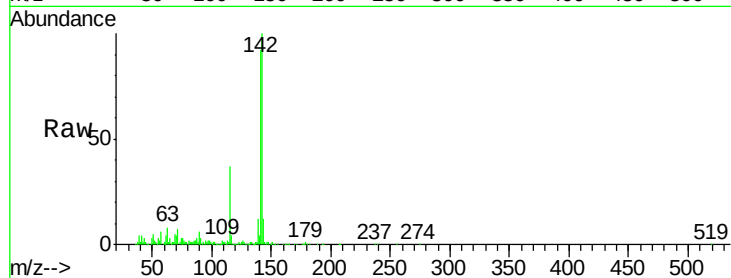
C02F6

Tgt Ion:142 Resp: 274011

Ion Ratio Lower Upper

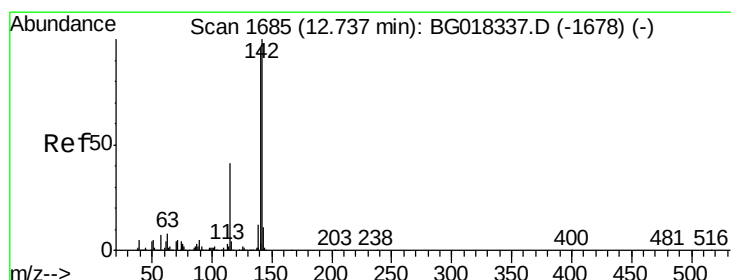
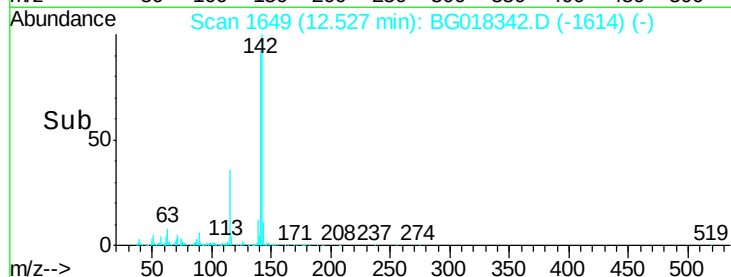
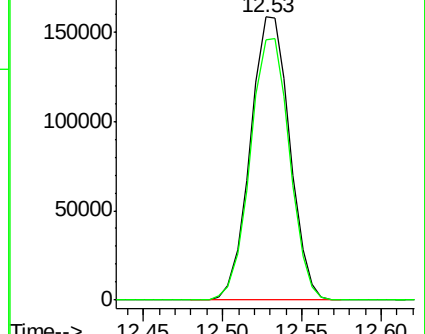
142 100

141 91.9 73.7 110.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#35

1-Methylnaphthalene

Concen: 6.80 ng/ul

RT: 12.75 min Scan# 1687

Delta R.T. 0.01 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

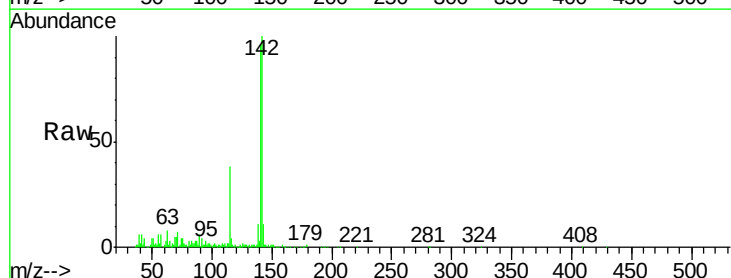
Tgt Ion:142 Resp: 171270

Ion Ratio Lower Upper

142 100

141 96.4 76.2 114.2

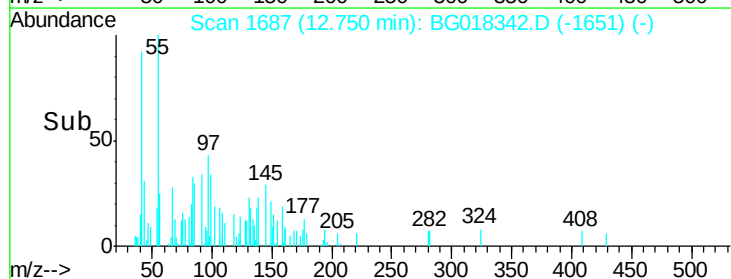
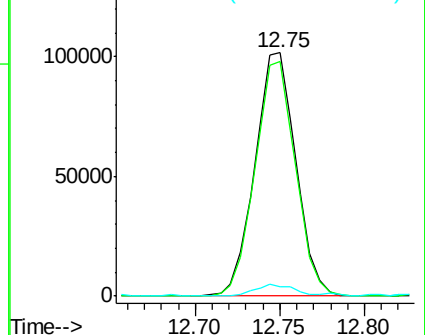
116 4.1 3.3 4.9

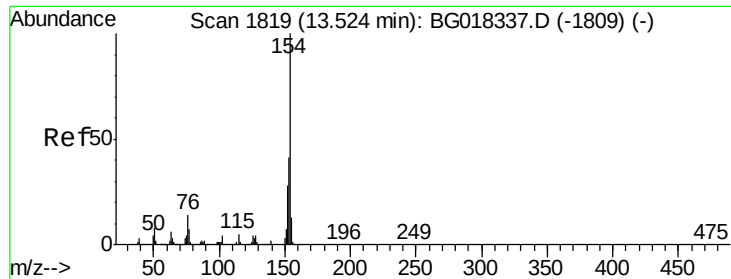


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

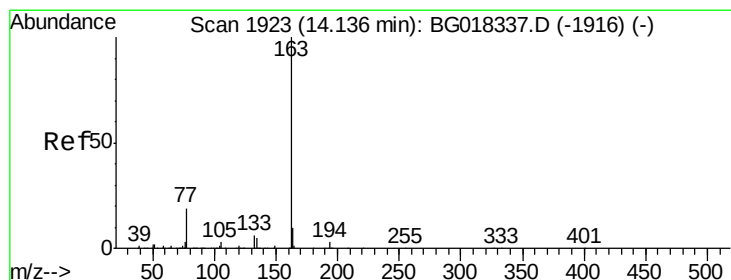
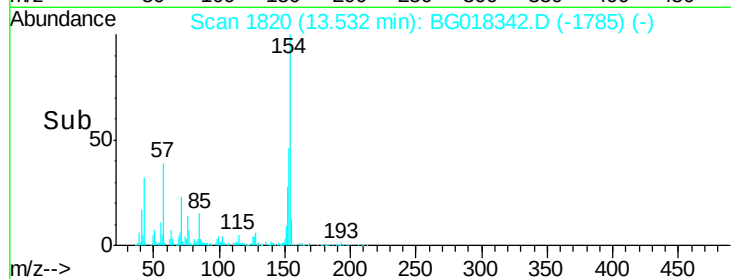
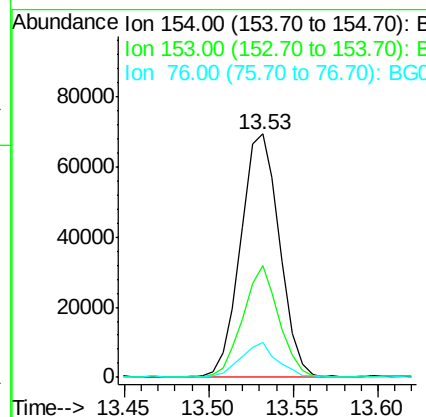
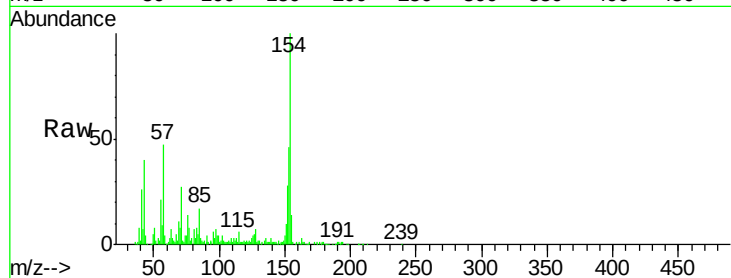




#41
1,1'-Biphenyl
Concen: 3.46 ng/ul
RT: 13.53 min Scan# 1820
Delta R.T. 0.01 min
Lab File: BG018342.D
Acq: 9 Aug 2015 23:34

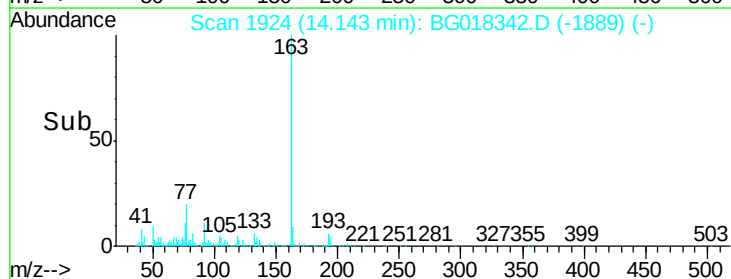
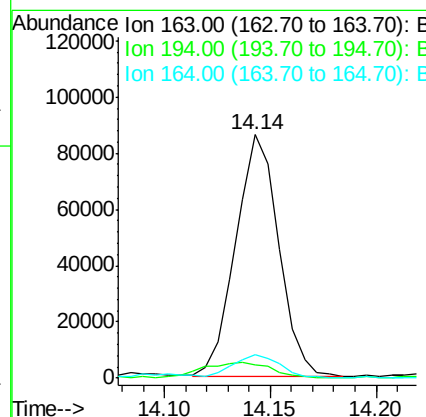
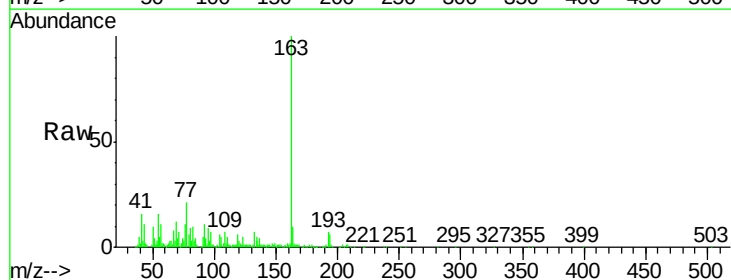
Instrument :
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C02F6

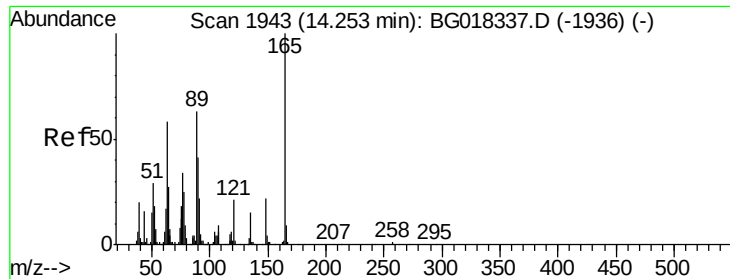
Tgt Ion	Ratio	Lower	Upper
154	100		
153	46.1	34.4	51.6
76	14.4	11.2	16.8



#45
Dimethylphthalate
Concen: 3.79 ng/ul
RT: 14.14 min Scan# 1924
Delta R.T. 0.01 min
Lab File: BG018342.D
Acq: 9 Aug 2015 23:34

Tgt Ion	Ratio	Lower	Upper
163	100		
194	5.6	3.2	4.8#
164	9.6	8.0	12.0

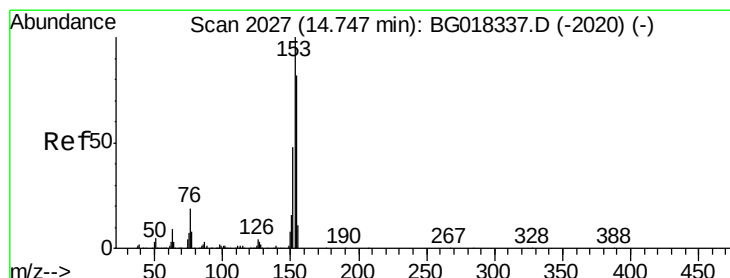
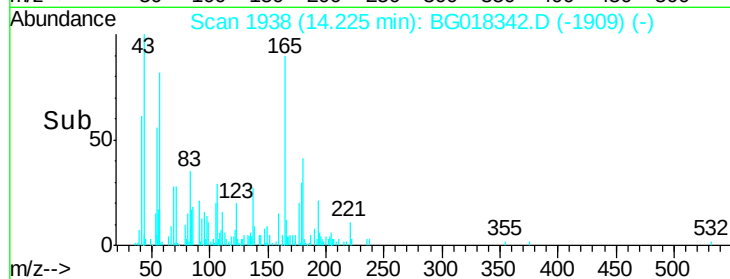
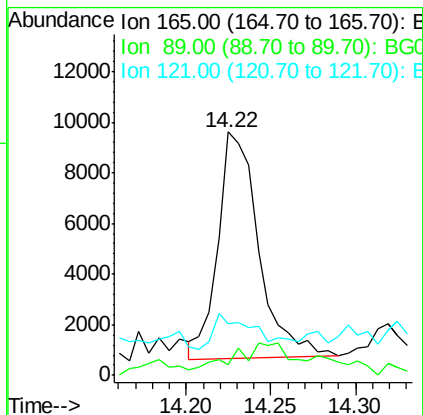
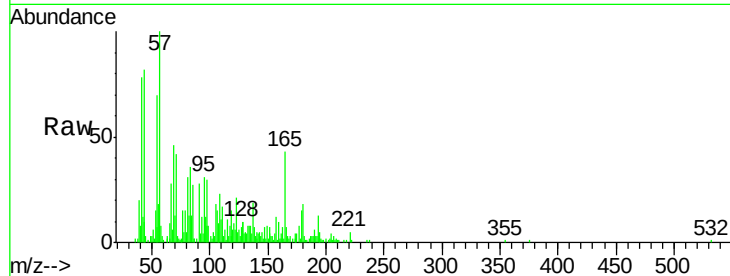




#46
 2,6-Dinitrotoluene
 Concen: 2.37 ng/ul
 RT: 14.22 min Scan# 1938
 Delta R.T. -0.03 min
 Lab File: BG018342.D
 Acq: 9 Aug 2015 23:34

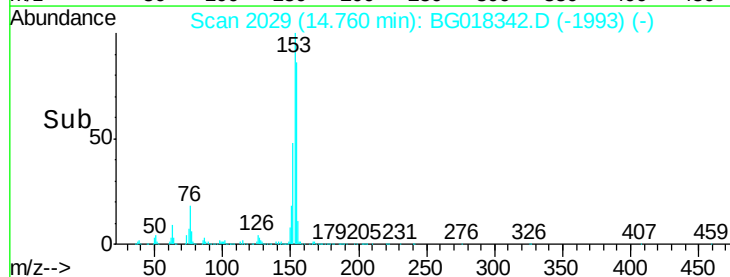
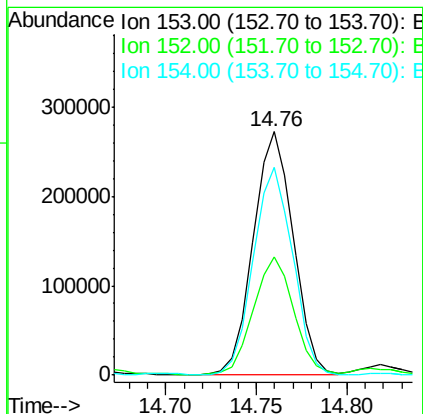
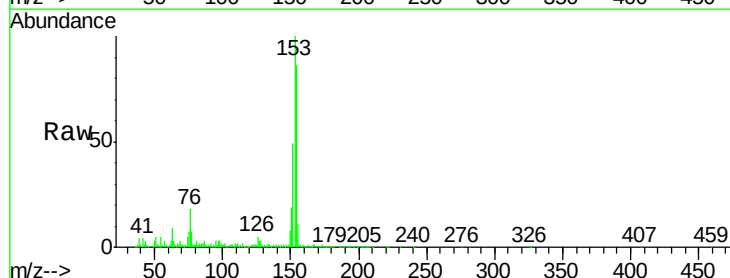
Instrument :
 BNA_G
 ClientSampleId :
 C02F6

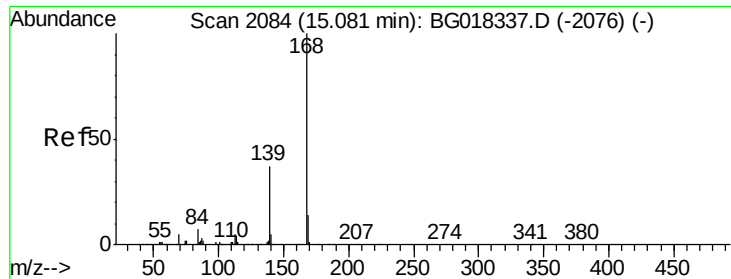
Tgt Ion:165 Resp: 15049
 Ion Ratio Lower Upper
 165 100
 89 4.5 52.1 78.1#
 121 21.4 20.8 31.2



#50
 Acenaphthene
 Concen: 14.48 ng/ul
 RT: 14.76 min Scan# 2029
 Delta R.T. 0.01 min
 Lab File: BG018342.D
 Acq: 9 Aug 2015 23:34

Tgt Ion:153 Resp: 416032
 Ion Ratio Lower Upper
 153 100
 152 48.6 36.7 55.1
 154 85.5 69.0 103.4





#54

Dibenzenofuran

Concen: 8.87 ng/ul

RT: 15.09 min Scan# 2085

Delta R.T. 0.01 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

Instrument :

BNA_G

ClientSampleId :

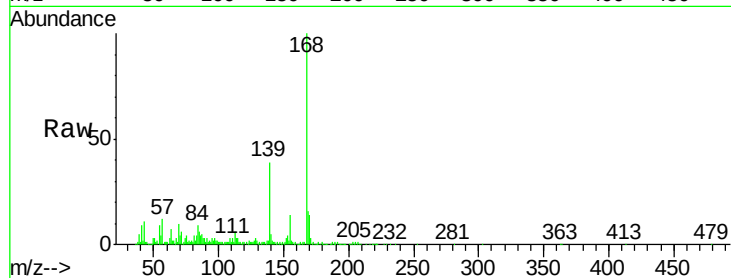
C02F6

Tgt Ion:168 Resp: 333292

Ion Ratio Lower Upper

168 100

139 38.6 31.4 47.0



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

250000

200000

150000

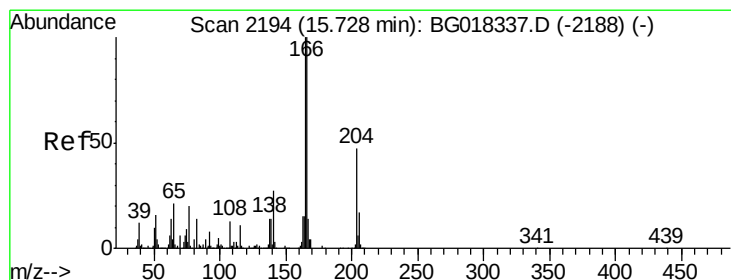
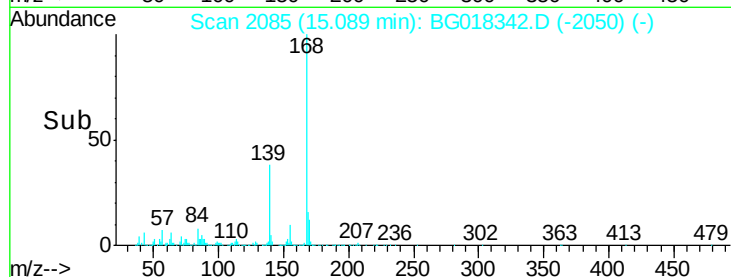
100000

50000

0

15.05 15.10 15.15

Time-->



#59

Fluorene

Concen: 9.70 ng/ul

RT: 15.74 min Scan# 2196

Delta R.T. 0.01 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

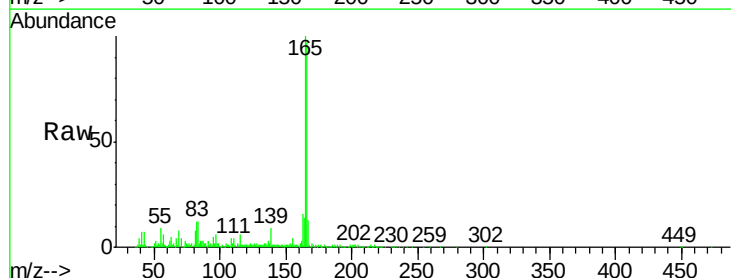
Tgt Ion:166 Resp: 313766

Ion Ratio Lower Upper

166 100

165 102.9 79.7 119.5

167 13.4 10.8 16.2



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

300000

250000

200000

150000

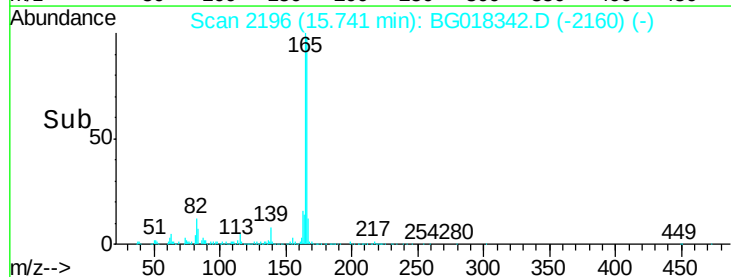
100000

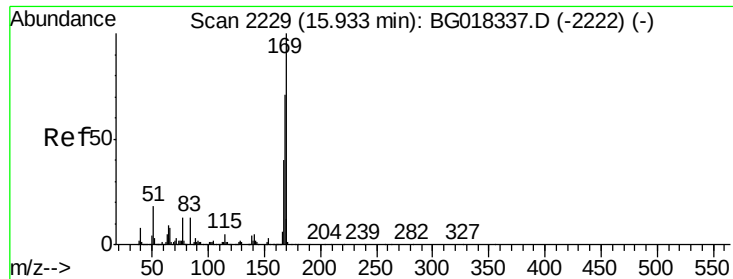
50000

0

15.70 15.75 15.80

Time-->





#65

N-Nitrosodiphenylamine

Concen: 1.18 ng/ul

RT: 15.95 min Scan# 2231

Delta R.T. 0.01 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

Instrument :

BNA_G

ClientSampleId :

C02F6

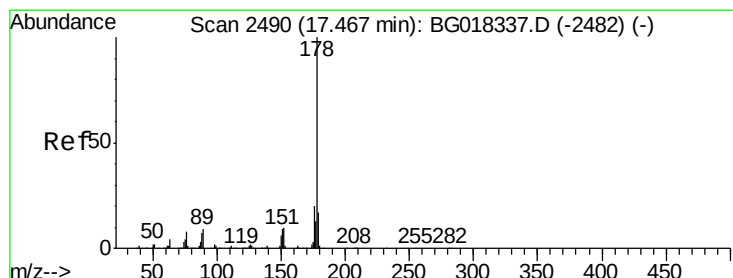
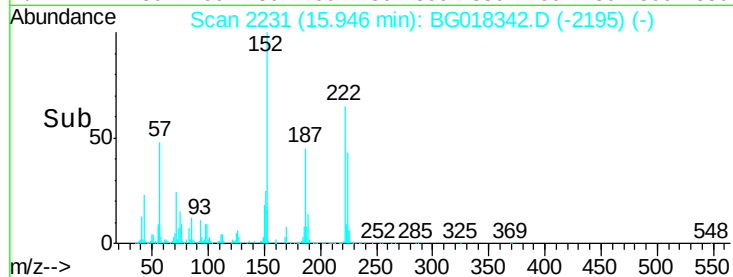
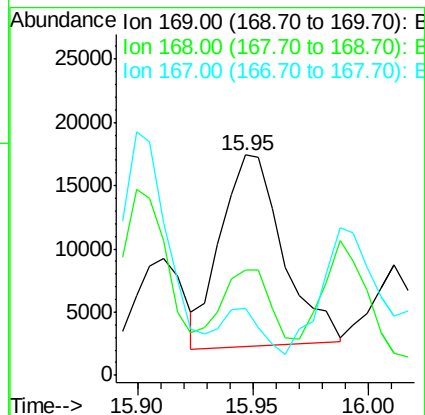
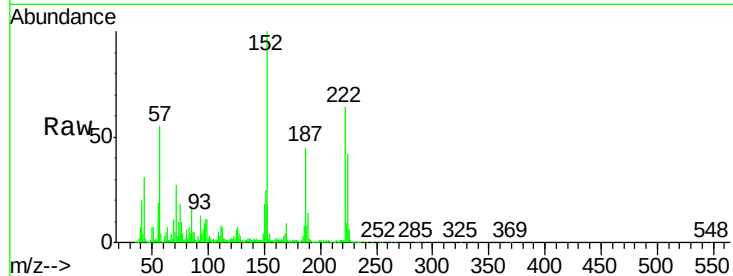
Tgt Ion:169 Resp: 28289

Ion Ratio Lower Upper

169 100

168 48.0 60.5 90.7#

167 30.5 31.7 47.5#



#70

Phenanthrene

Concen: 28.35 ng/ul

RT: 17.49 min Scan# 2493

Delta R.T. 0.02 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

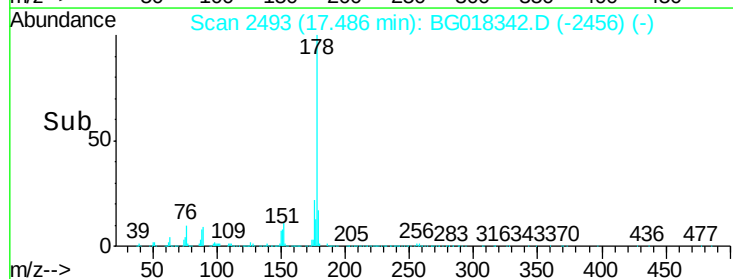
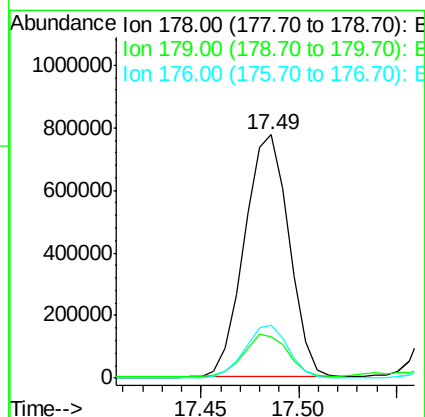
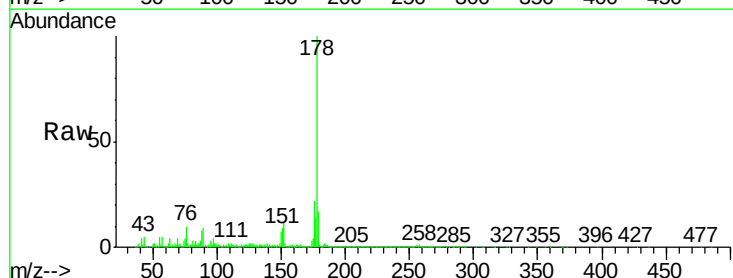
Tgt Ion:178 Resp: 1223852

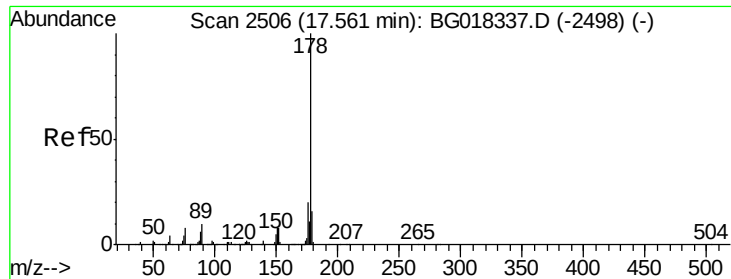
Ion Ratio Lower Upper

178 100

179 17.2 12.4 18.6

176 21.7 15.9 23.9

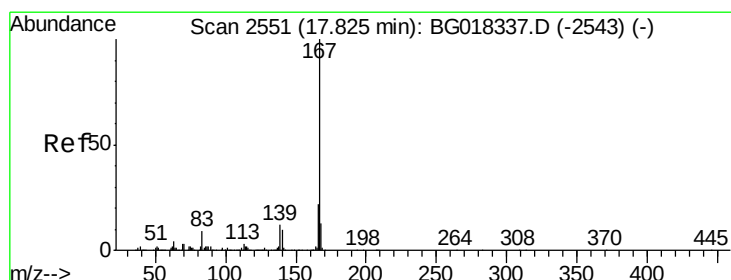
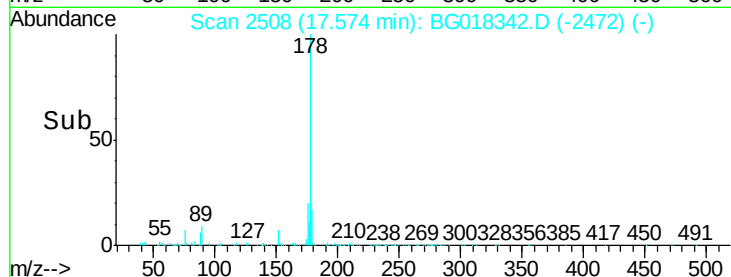
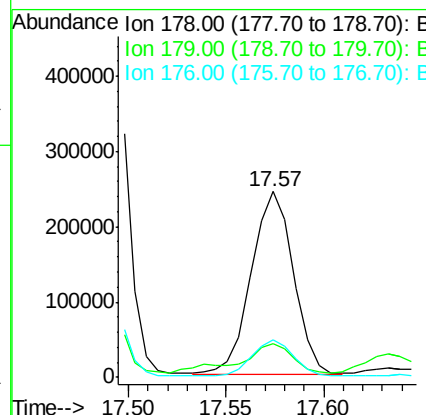
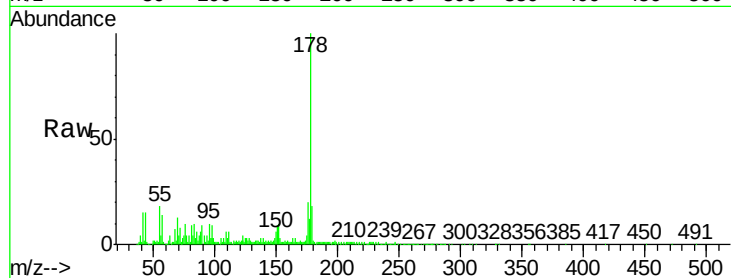




#72
 Anthracene
 Concen: 8.28 ng/ul
 RT: 17.57 min Scan# 2508
 Delta R.T. 0.01 min
 Lab File: BG018342.D
 Acq: 9 Aug 2015 23:34

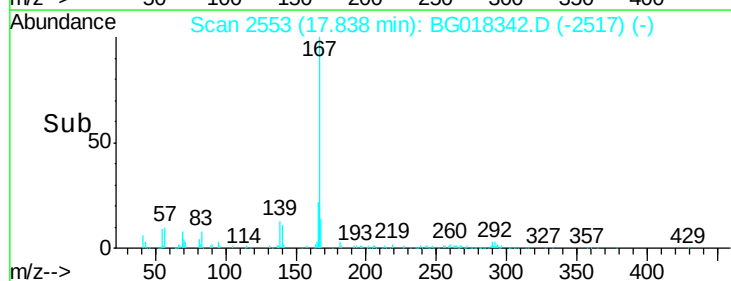
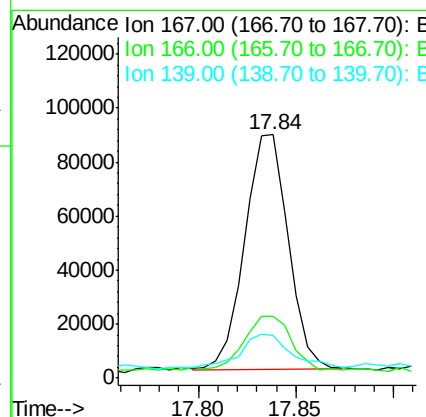
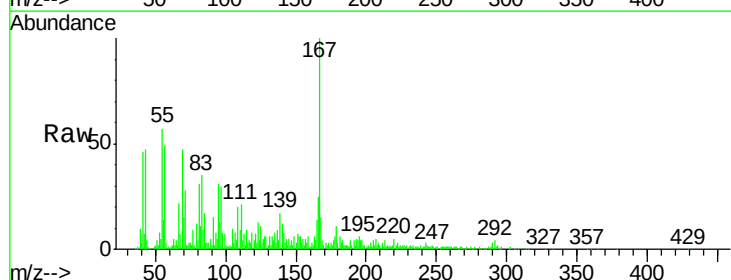
Instrument :
 BNA_G
 ClientSampleId :
 C02F6

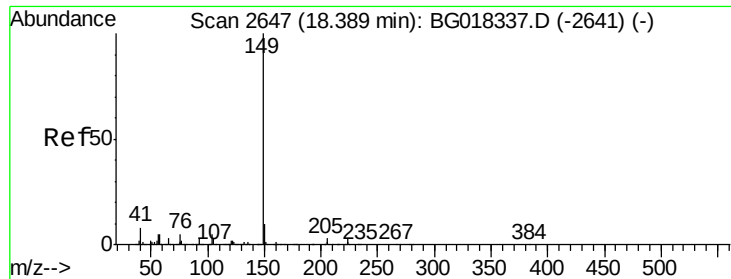
Tgt Ion:178 Resp: 363961
 Ion Ratio Lower Upper
 178 100
 179 18.4 12.8 19.2
 176 20.0 15.9 23.9



#75
 Carbazole
 Concen: 3.48 ng/ul
 RT: 17.84 min Scan# 2553
 Delta R.T. 0.01 min
 Lab File: BG018342.D
 Acq: 9 Aug 2015 23:34

Tgt Ion:167 Resp: 134364
 Ion Ratio Lower Upper
 167 100
 166 25.3 19.3 28.9
 139 17.4 10.7 16.1#





#76

Di-n-butylphthalate

Concen: 2.15 ng/ul

RT: 18.41 min Scan# 2650

Delta R.T. 0.02 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

Instrument :

BNA_G

ClientSampleId :

C02F6

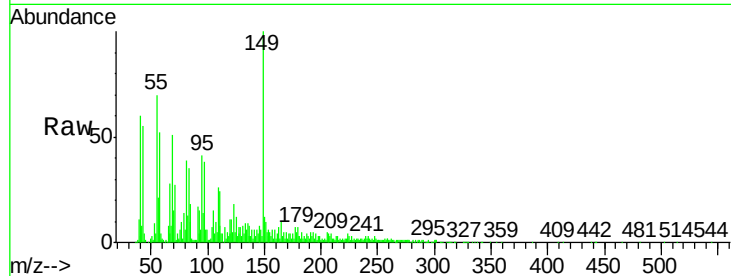
Tgt Ion:149 Resp: 108469

Ion Ratio Lower Upper

149 100

150 11.7 7.4 11.2#

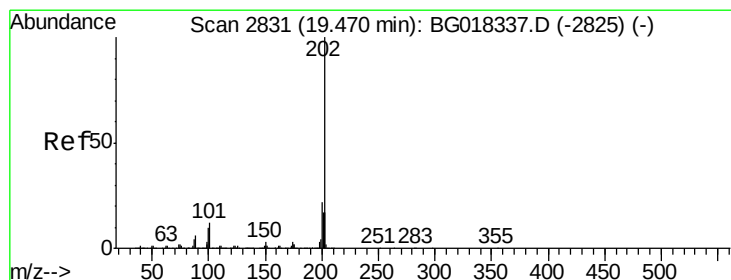
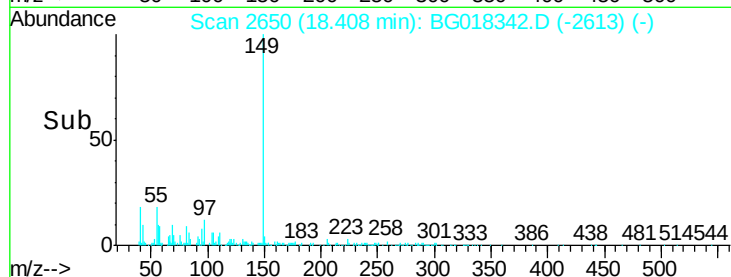
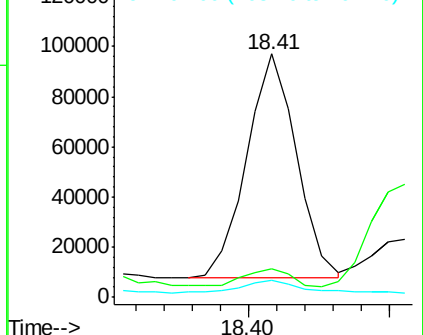
104 7.2 4.6 7.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#77

Fluoranthene

Concen: 24.76 ng/ul

RT: 19.50 min Scan# 2835

Delta R.T. 0.02 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

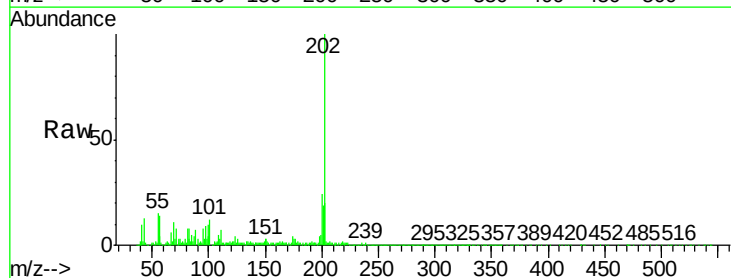
Tgt Ion:202 Resp: 1139440

Ion Ratio Lower Upper

202 100

101 12.4 8.9 13.3

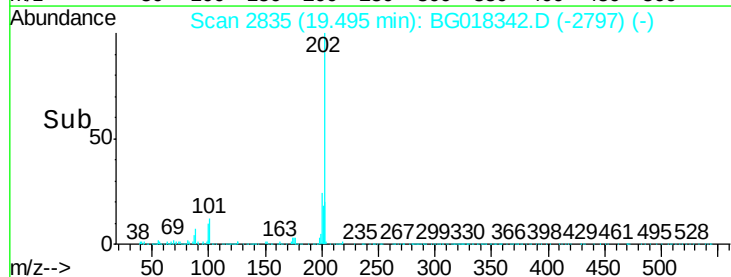
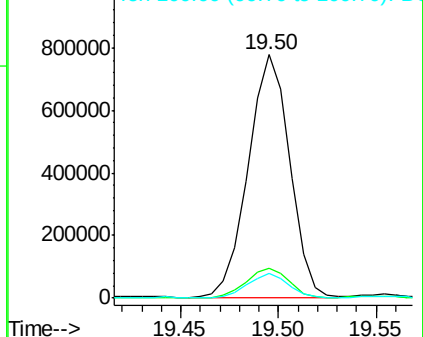
100 10.3 8.5 12.7

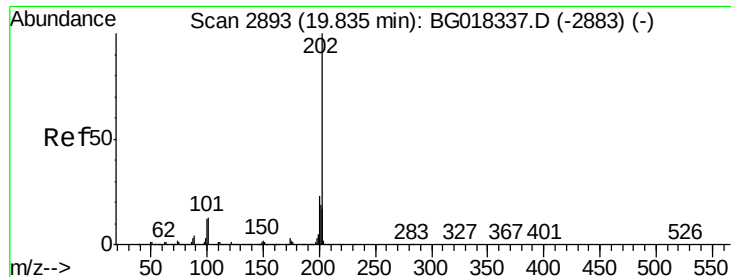


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

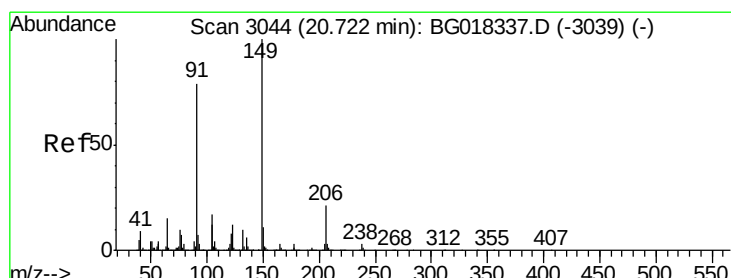
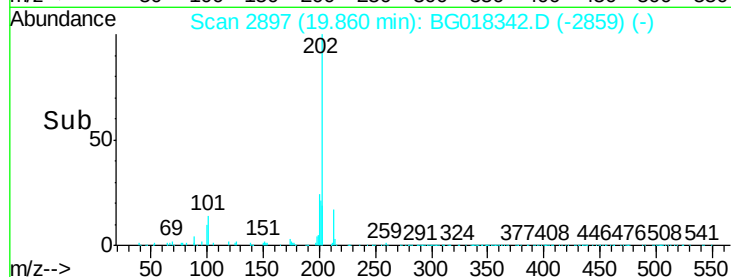
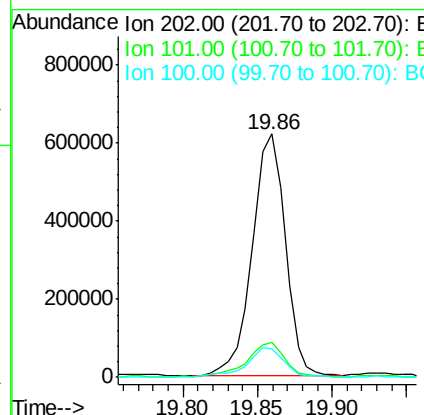
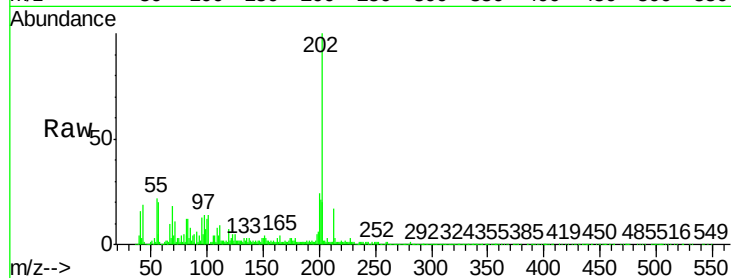




#80
 Pyrene
 Concen: 23.27 ng/ul
 RT: 19.86 min Scan# 2897
 Delta R.T. 0.02 min
 Lab File: BG018342.D
 Acq: 9 Aug 2015 23:34

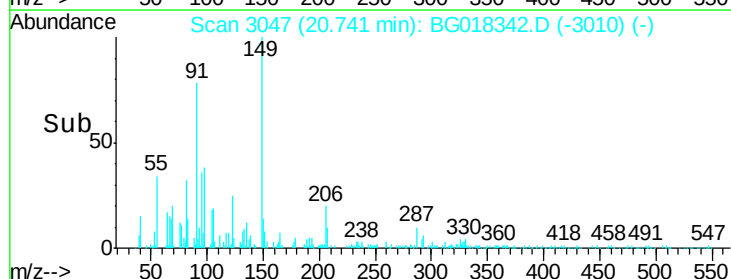
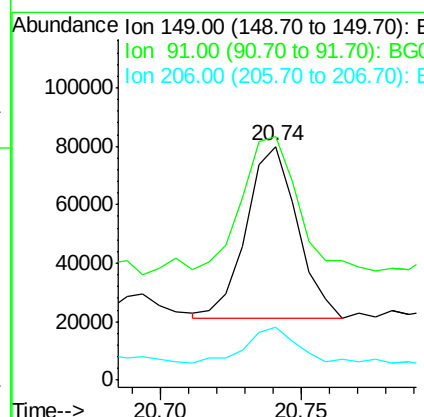
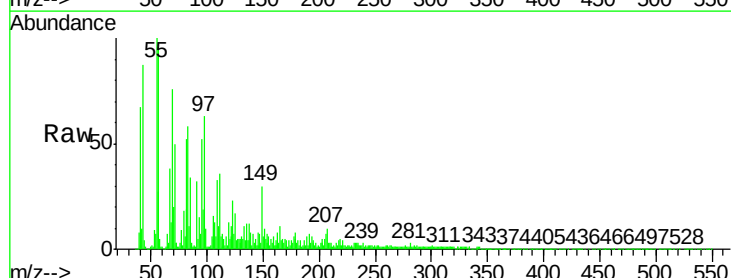
Instrument :
 BNA_G
 ClientSampleId :
 C02F6

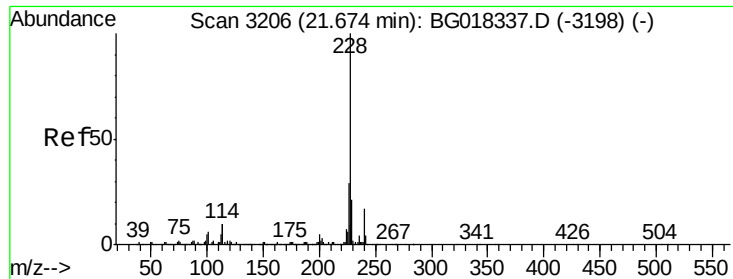
Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.2	11.3	16.9
100	11.8	9.6	14.4



#81
 Butylbenzylphthalate
 Concen: 4.26 ng/ul
 RT: 20.74 min Scan# 3047
 Delta R.T. 0.02 min
 Lab File: BG018342.D
 Acq: 9 Aug 2015 23:34

Tgt Ion	Ratio	Lower	Upper
149	100		
91	104.2	63.4	95.2#
206	22.6	17.8	26.6





#83

Benzo(a)anthracene

Concen: 10.12 ng/ul

RT: 21.70 min Scan# 3211

Delta R.T. 0.03 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

Instrument :

BNA_G

ClientSampleId :

C02F6

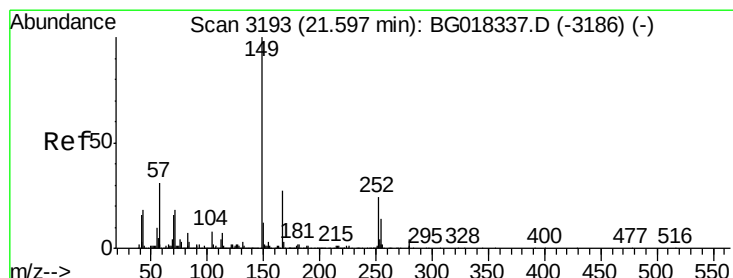
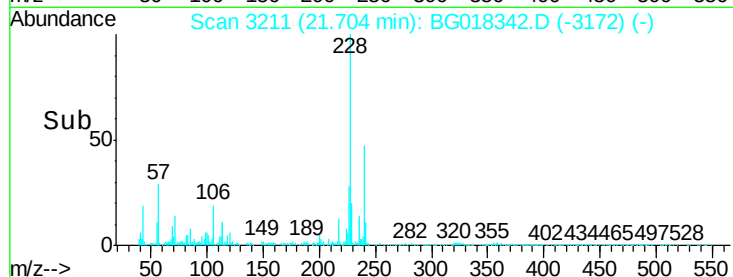
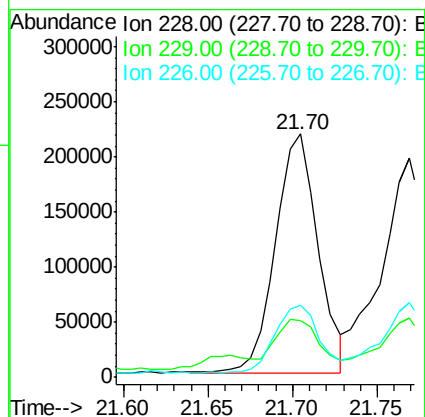
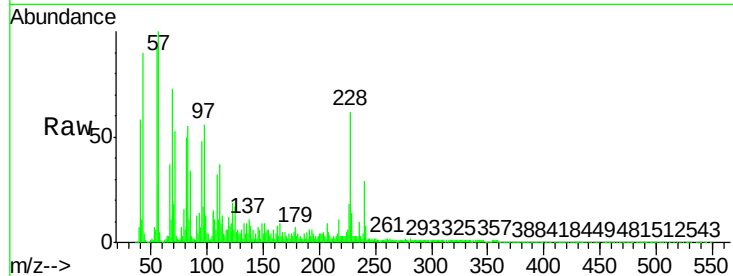
Tgt Ion:228 Resp: 378435

Ion Ratio Lower Upper

228 100

229 23.4 15.4 23.2#

226 29.5 22.3 33.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 54.01 ng/ul

RT: 21.62 min Scan# 3196

Delta R.T. 0.02 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

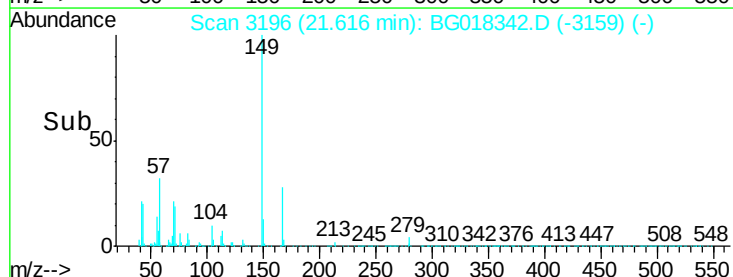
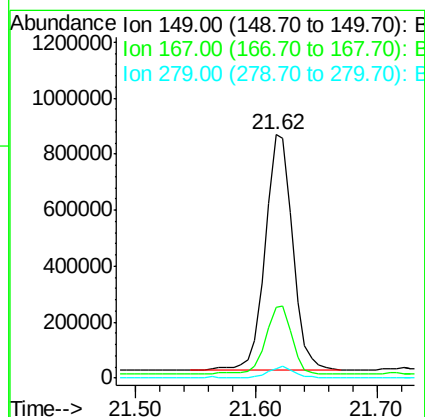
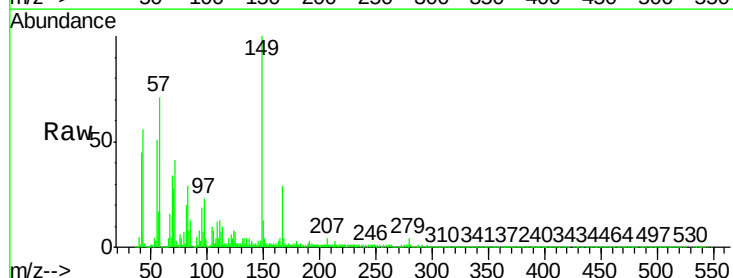
Tgt Ion:149 Resp: 1322149

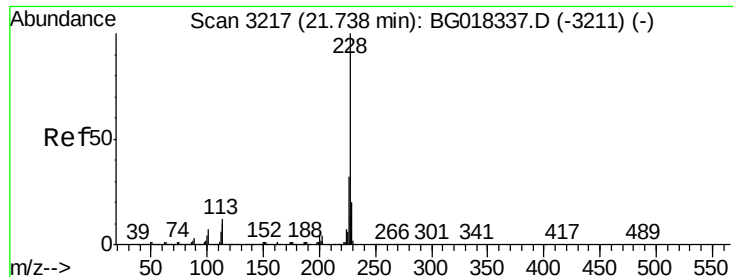
Ion Ratio Lower Upper

149 100

167 29.2 21.8 32.6

279 4.0 2.8 4.2

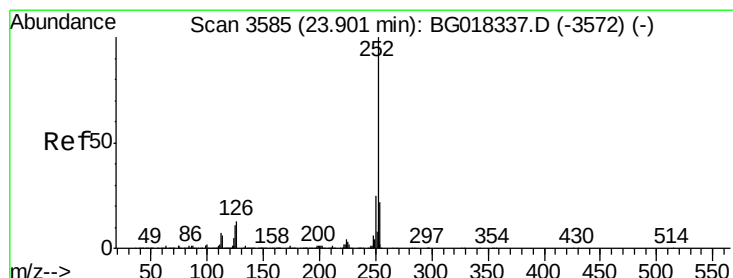
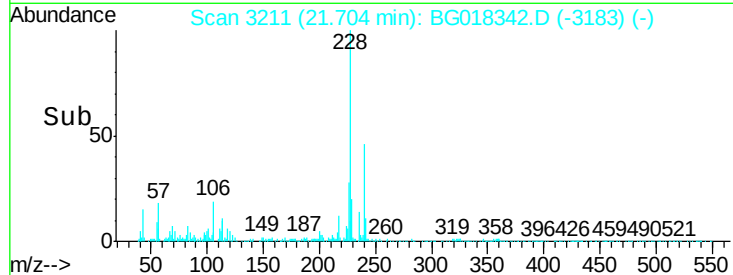
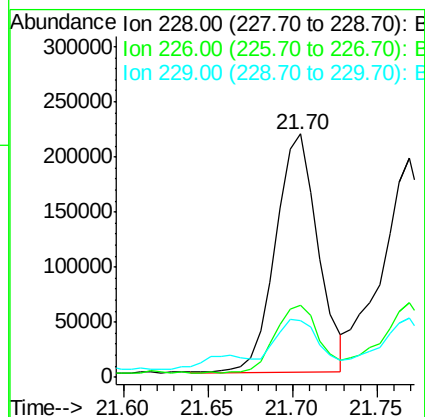
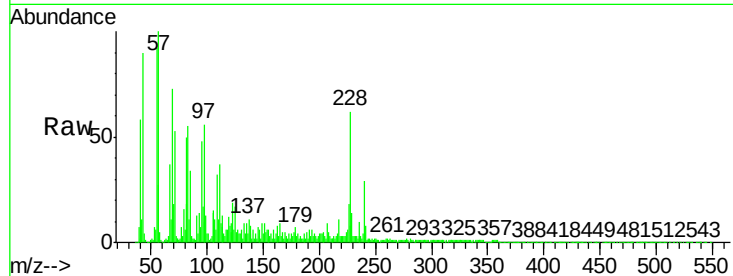




#85
Chrysene
Concen: 10.75 ng/ul
RT: 21.70 min Scan# 3211
Delta R.T. -0.03 min
Lab File: BG018342.D
Acq: 9 Aug 2015 23:34

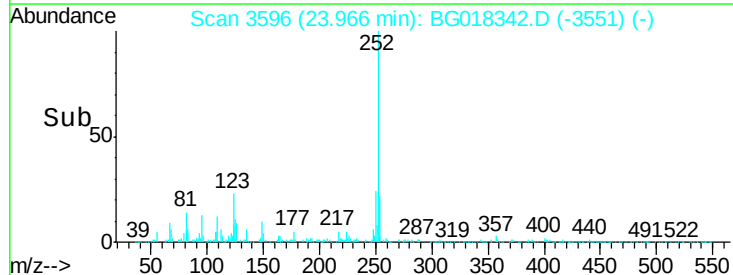
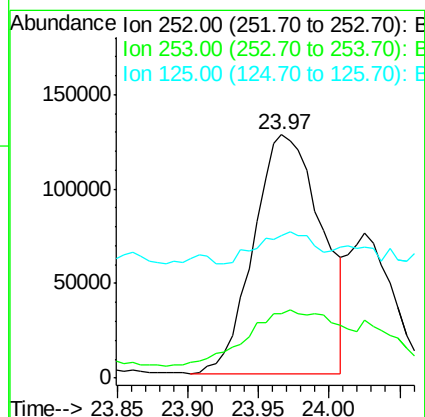
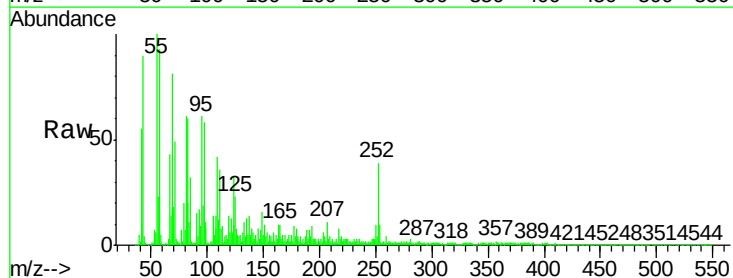
Instrument :
BNA_G
ClientSampled :
C02F6

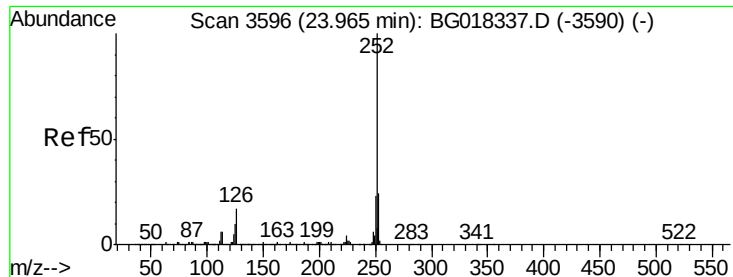
Tgt Ion:228 Resp: 376085
Ion Ratio Lower Upper
228 100
226 29.5 24.6 37.0
229 23.4 16.0 24.0



#88
Benzo(b)fluoranthene
Concen: 11.34 ng/ul
RT: 23.97 min Scan# 3596
Delta R.T. 0.07 min
Lab File: BG018342.D
Acq: 9 Aug 2015 23:34

Tgt Ion:252 Resp: 425333
Ion Ratio Lower Upper
252 100
253 26.3 18.0 27.0
125 58.7 8.6 12.8#





#89

Benzo(k)fluoranthene

Concen: 3.78 ng/ul

RT: 24.03 min Scan# 3606

Delta R.T. 0.06 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

Instrument :

BNA_G

ClientSampleId :

C02F6

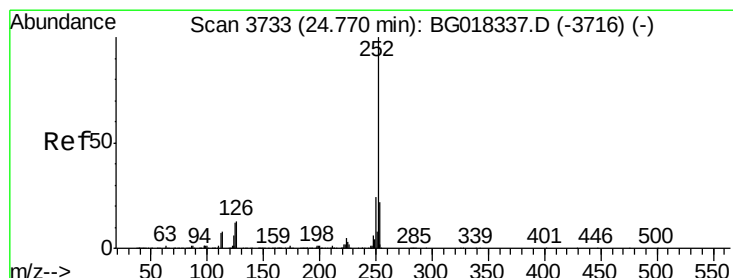
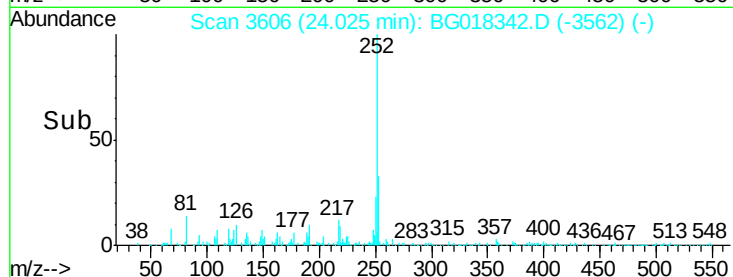
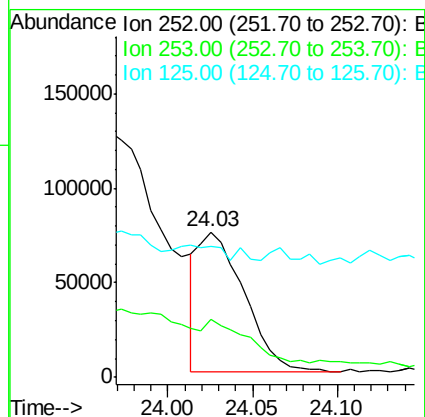
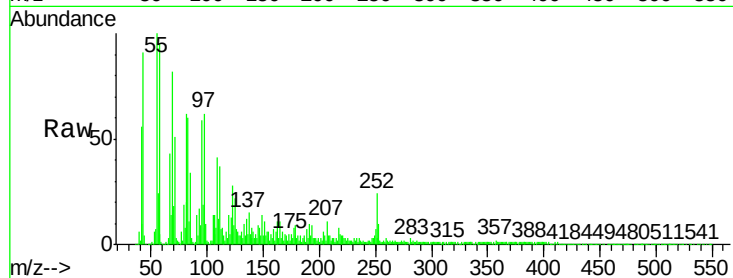
Tgt Ion:252 Resp: 137225

Ion Ratio Lower Upper

252 100

253 40.0 17.0 25.4#

125 90.0 7.7 11.5#



#91

Benzo(a)pyrene

Concen: 8.14 ng/ul

RT: 24.86 min Scan# 3748

Delta R.T. 0.09 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

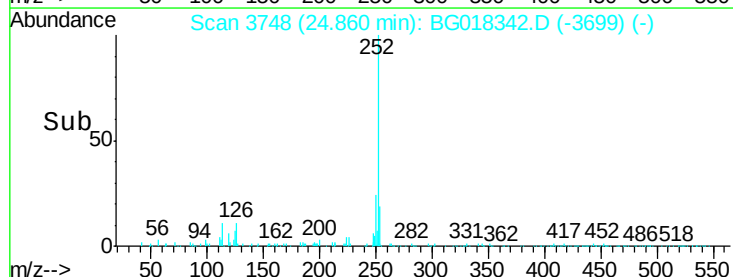
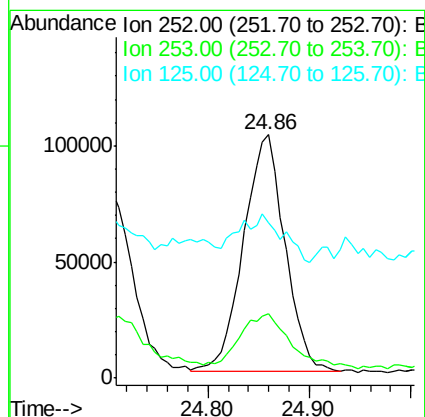
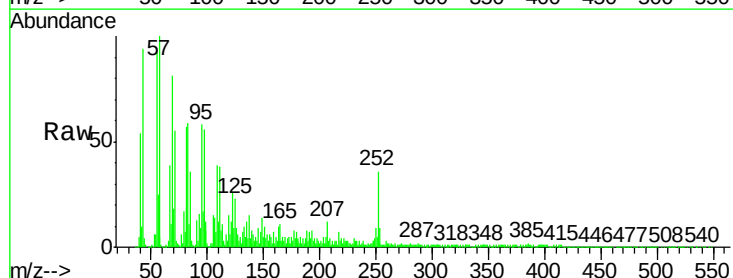
Tgt Ion:252 Resp: 290254

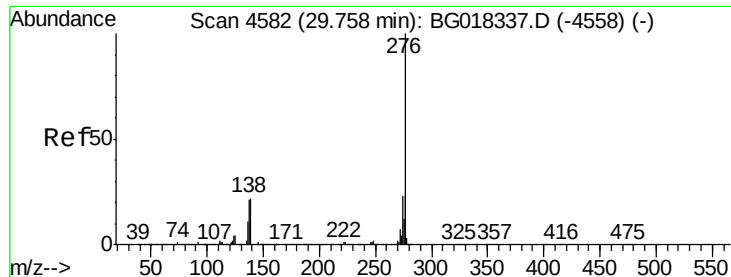
Ion Ratio Lower Upper

252 100

253 26.3 18.6 27.8

125 63.6 9.8 14.6#





#94

Benzo(g,h,i)perylene

Concen: 2.09 ng/ul

RT: 29.92 min Scan# 4610

Delta R.T. 0.17 min

Lab File: BG018342.D

Acq: 9 Aug 2015 23:34

Instrument :

BNA_G

ClientSampleId :

C02F6

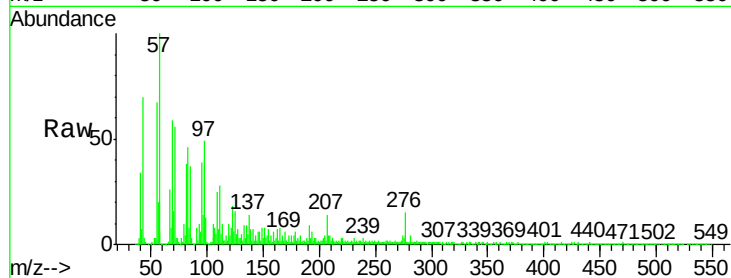
Tgt Ion:276 Resp: 72492

Ion Ratio Lower Upper

276 100

138 39.0 17.4 26.0#

277 27.9 18.4 27.6#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

