

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080915\
 Data File : BG018344.D
 Acq On : 10 Aug 2015 00:50
 Operator : UM/TP
 Sample : G3065-18RX
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C02L8RX

Quant Time: Aug 10 02:24:44 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	102754	20.00	ng/ul	0.01
18) Naphthalene-d8	10.89	136	450873	20.00	ng/ul	0.02
36) Acenaphthene-d10	14.70	164	235831	20.00	ng/ul	0.02
62) Phenanthrene-d10	17.45	188	418873	20.00	ng/ul	0.03
78) Chrysene-d12	21.76	240	391715	20.00	ng/ul	0.07
86) Perylene-d12	24.97	264	486	20.00	ng/ul	0.05

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.53	96	4061	1.76	ng/uL	0.00
5) Phenol-d5	7.24	99	101733	11.02	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	7.40	67	70590	12.25	ng/ul	0.01
9) 2-Chlorophenol-d4	7.61	132	84979	11.95	ng/ul	0.02
13) 4-Methylphenol-d8	8.78	113	65996	8.48	ng/ul	0.02
19) Nitrobenzene-d5	9.24	128	48190	13.95	ng/ul	0.01
22) 2-Nitrophenol-d4	9.96	143	46637	13.35	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	10.50	165	92214	12.23	ng/ul	0.01
29) 4-Chloroaniline-d4	11.01	131	32036	3.80	ng/ul	0.01
44) Dimethylphthalate-d6	14.10	166	258446	13.12	ng/ul	0.01
47) Acenaphthylene-d8	14.39	160	343403	13.93	ng/ul	0.02
52) 4-Nitrophenol-d4	14.88	143	30045	8.49	ng/ul	0.02
58) Fluorene-d10	15.69	176	218432	12.78	ng/ul	0.02
63) 4,6-Dinitro-2-methylphenol	15.80	200	10315	5.04	ng/ul	0.02
71) Anthracene-d10	17.55	188	274279	13.81	ng/ul	0.02
79) Pyrene-d10	19.86	212	253078	12.56	ng/ul	0.05
90) Benzo(a)pyrene-d12	24.72	264	620	24.18	ng/ul	0.01

Target Compounds

					Qvalue
14) Acetophenone	8.89	105	15800	1.41 ng/ul#	72
17) Hexachloroethane	9.19	117	3311	1.06 ng/ul#	11
28) Naphthalene	10.93	128	64329	2.74 ng/ul	98
34) 2-Methylnaphthalene	12.53	142	32739	1.92 ng/ul	90
35) 1-Methylnaphthalene	12.75	142	24608	1.49 ng/ul#	95
45) Dimethylphthalate	14.15	163	118754	6.12 ng/ul#	82
46) 2,6-Dinitrotoluene	14.26	165	9636	2.51 ng/ul#	15
48) Acenaphthylene	14.43	152	39810	1.60 ng/ul#	49
49) 3-Nitroaniline	14.62	138	19457	4.99 ng/ul#	20
50) Acenaphthene	14.76	153	65630	3.77 ng/ul	93
53) 4-Nitrophenol	14.89	109	4103	1.34 ng/ul#	4
54) Dibenzofuran	15.09	168	40836	1.80 ng/ul#	75
59) Fluorene	15.75	166	86955	4.44 ng/ul#	87
65) N-Nitrosodiphenylamine	15.96	169	53303	4.24 ng/ul#	41
70) Phenanthrene	17.50	178	649965	28.62 ng/ul#	90
72) Anthracene	17.58	178	152539	6.59 ng/ul#	75
75) Carbazole	17.85	167	43432	2.14 ng/ul#	32
76) Di-n-butylphthalate	18.42	149	63874	2.41 ng/ul#	45
77) Fluoranthene	19.52	202	966692	39.94 ng/ul	97
80) Pyrene	19.89	202	1110992	42.46 ng/ul	99
83) Benzo(a)anthracene	21.74	228	432388	17.95 ng/ul#	80
84) Bis(2-ethylhexyl)phthalate	21.64	149	183833	11.65 ng/ul#	76
85) Chrysene	21.81	228	527135	23.38 ng/ul#	84

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QLast Update : Mon Aug 10 02:20:20 2015
Response via : Initial Calibration

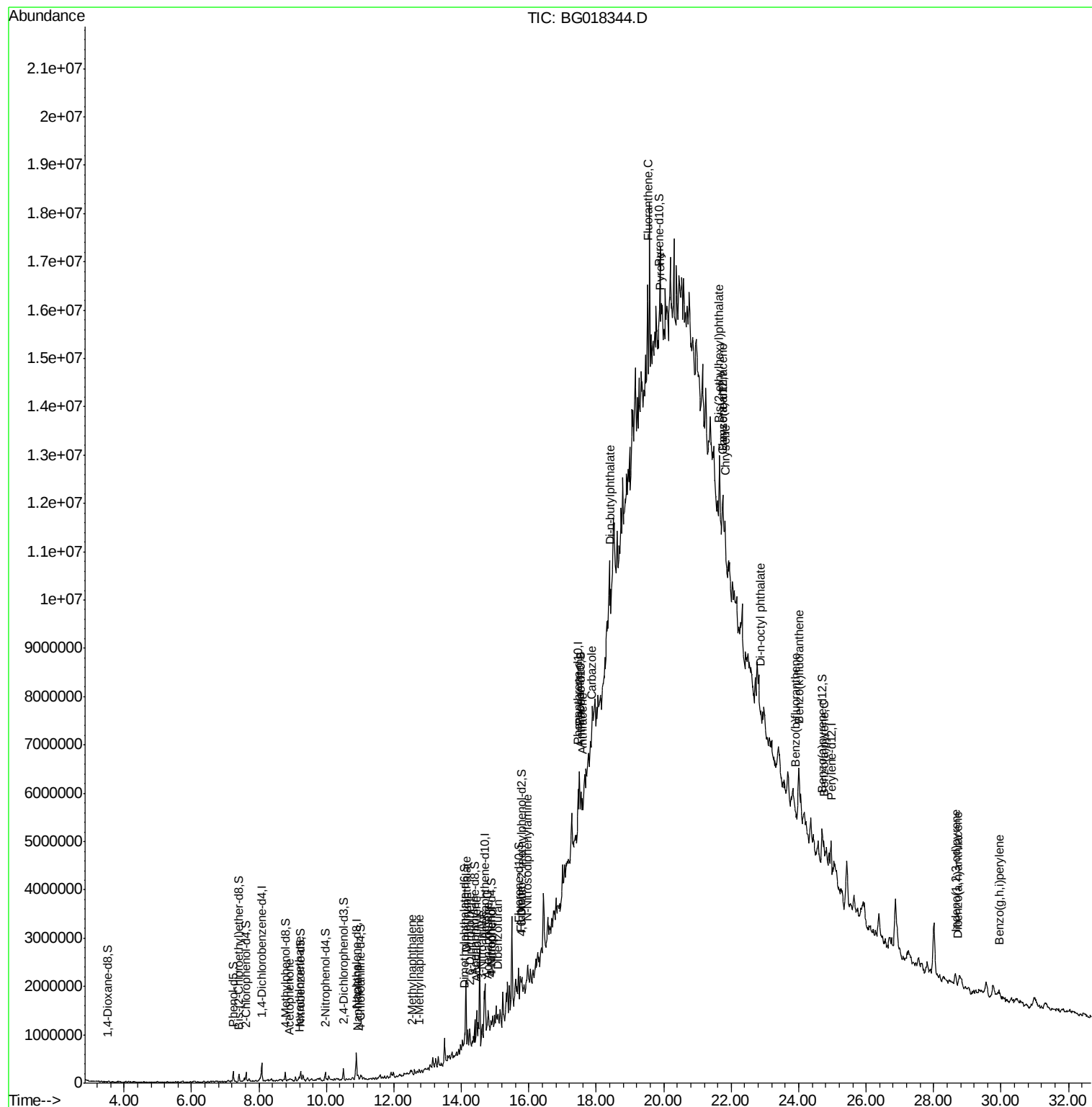
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Di-n-octyl phthalate	22.88	149	12656	405.37	ng/ul	100
88) Benzo(b)fluoranthene	23.92	252	1276	42.10	ng/ul#	1
89) Benzo(k)fluoranthene	24.01	252	715653	24387.09	ng/ul#	69
91) Benzo(a)pyrene	24.74	252	402007	13948.39	ng/ul#	67
92) Indeno(1,2,3-cd)pyrene	28.67	276	633	18.94	ng/ul#	1
93) Dibenzo(a,h)anthracene	28.72	278	1149	41.44	ng/ul#	1
94) Benzo(g,h,i)perylene	29.93	276	285290	10203.03	ng/ul	97

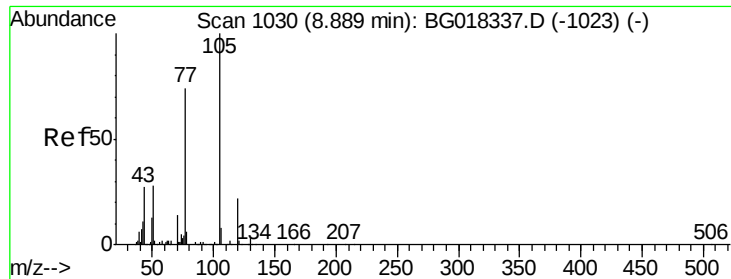
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#14

Acetophenone

Concen: 1.41 ng/ul

RT: 8.89 min Scan# 1030

Delta R.T. -0.00 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

Instrument :

BNA_G

ClientSampleId :

C02L8RX

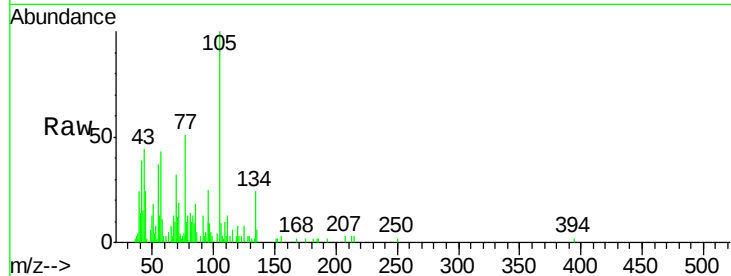
Tgt Ion:105 Resp: 15800

Ion Ratio Lower Upper

105 100

77 50.9 61.7 92.5#

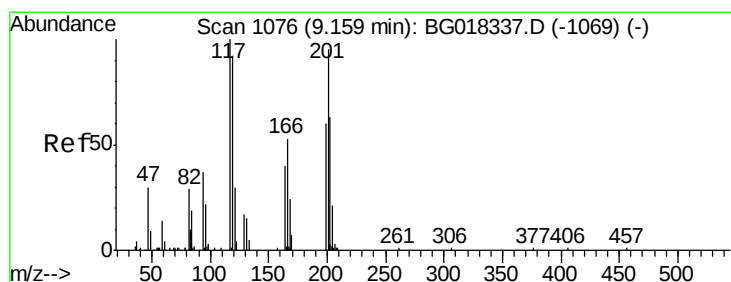
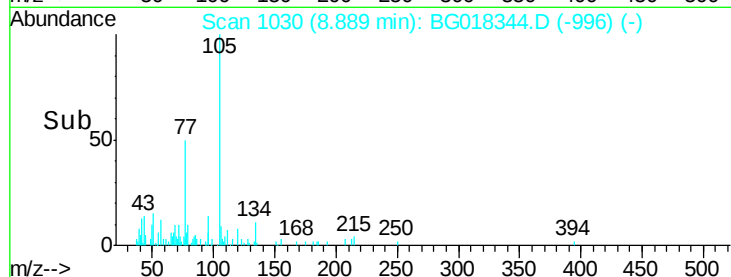
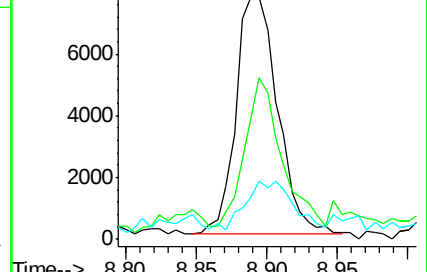
51 17.8 24.0 36.0#



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC

Ion 51.00 (50.70 to 51.70): BGC



#17

Hexachloroethane

Concen: 1.06 ng/ul

RT: 9.19 min Scan# 1081

Delta R.T. 0.03 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

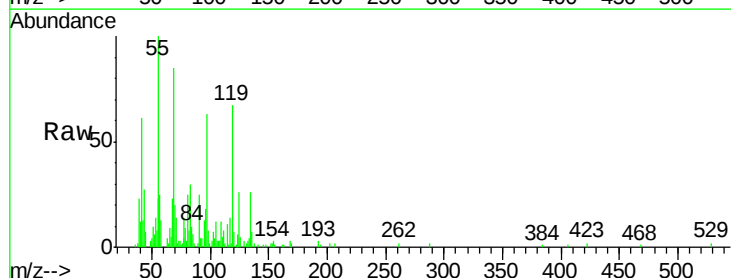
Tgt Ion:117 Resp: 3311

Ion Ratio Lower Upper

117 100

201 0.0 70.4 105.6#

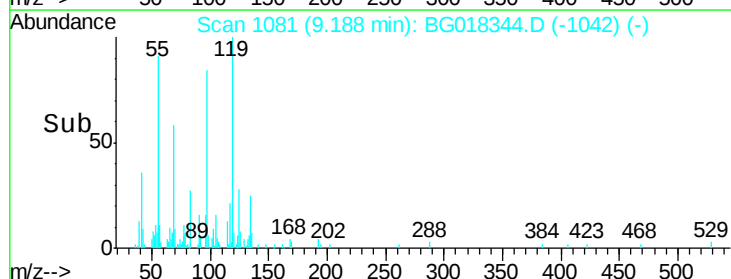
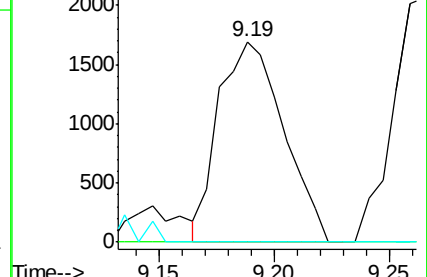
199 0.0 50.6 75.8#

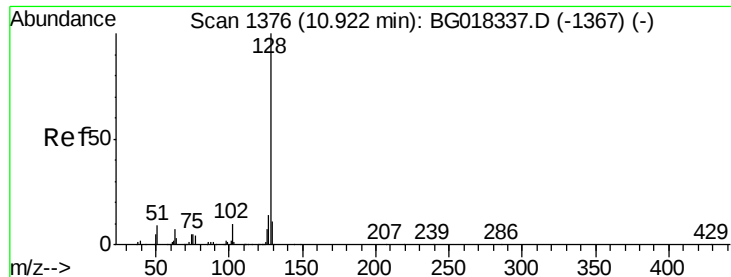


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E

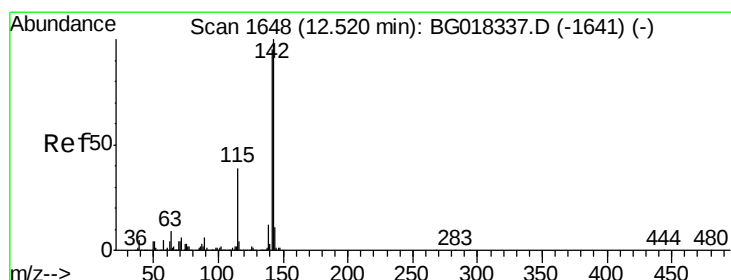
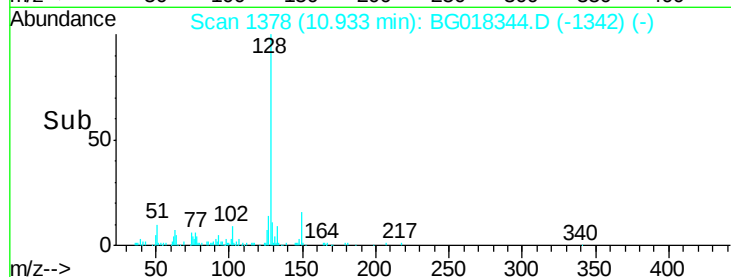
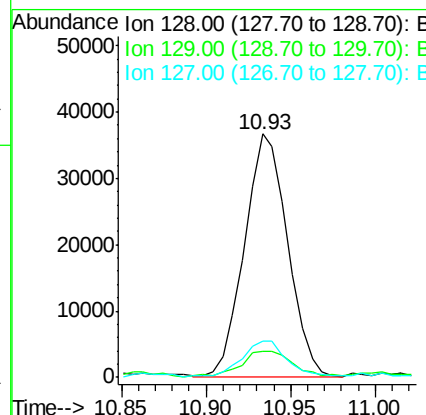
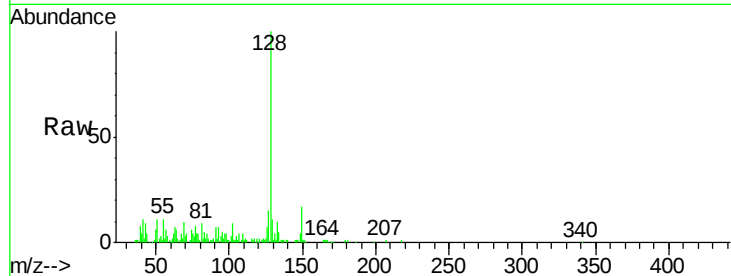




#28
Naphthalene
Concen: 2.74 ng/ul
RT: 10.93 min Scan# 1378
Delta R.T. 0.01 min
Lab File: BG018344.D
Acq: 10 Aug 2015 00:50

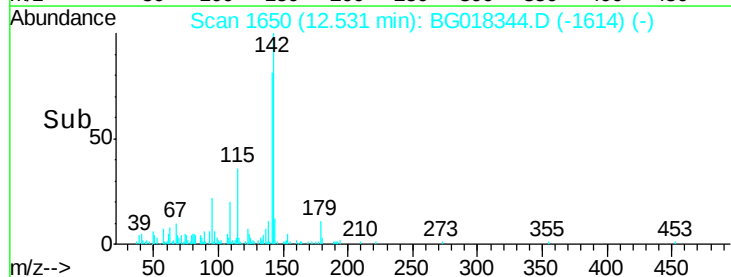
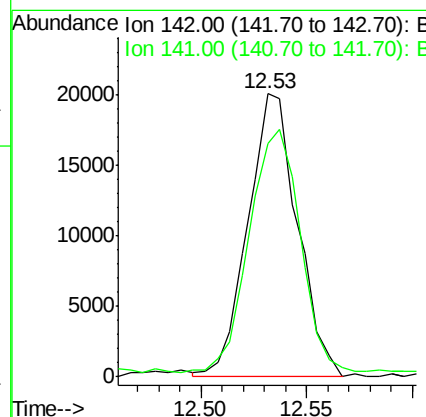
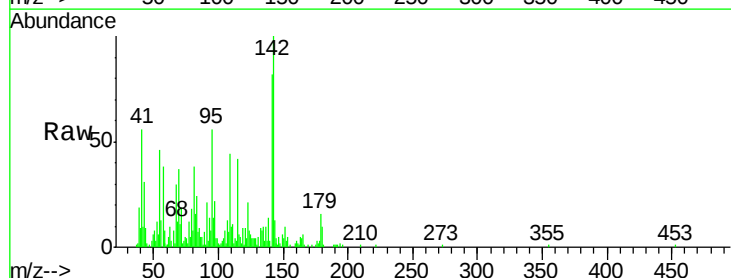
Instrument :
BNA_G
ClientSampleId :
C02L8RX

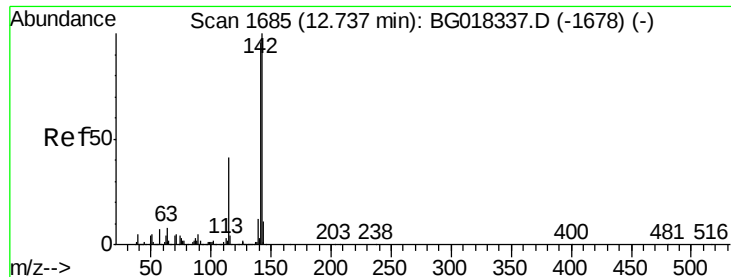
Tgt Ion:128 Resp: 64329
Ion Ratio Lower Upper
128 100
129 10.8 8.6 13.0
127 14.6 10.8 16.2



#34
2-Methylnaphthalene
Concen: 1.92 ng/ul
RT: 12.53 min Scan# 1650
Delta R.T. 0.01 min
Lab File: BG018344.D
Acq: 10 Aug 2015 00:50

Tgt Ion:142 Resp: 32739
Ion Ratio Lower Upper
142 100
141 82.3 73.7 110.5

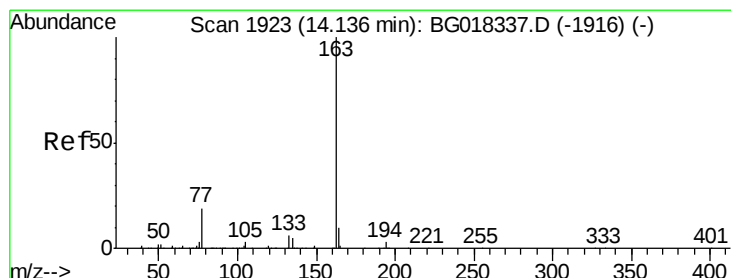
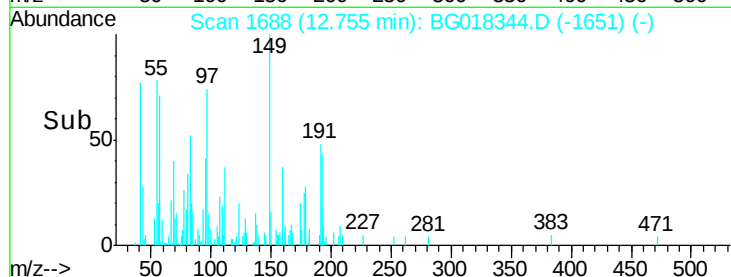
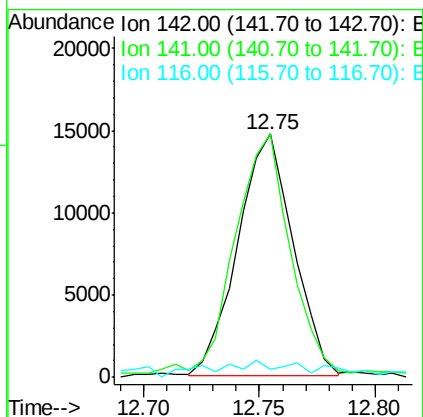
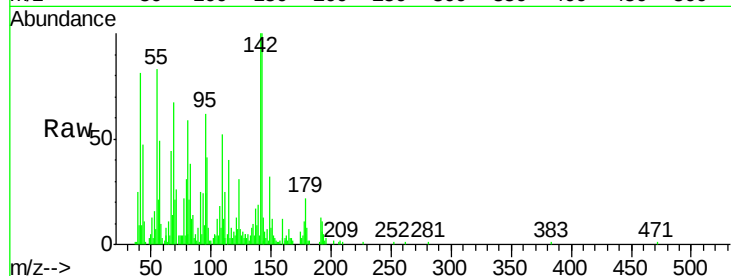




#35
 1-Methylnaphthalene
 Concen: 1.49 ng/ul
 RT: 12.75 min Scan# 1688
 Delta R.T. 0.02 min
 Lab File: BG018344.D
 Acq: 10 Aug 2015 00:50

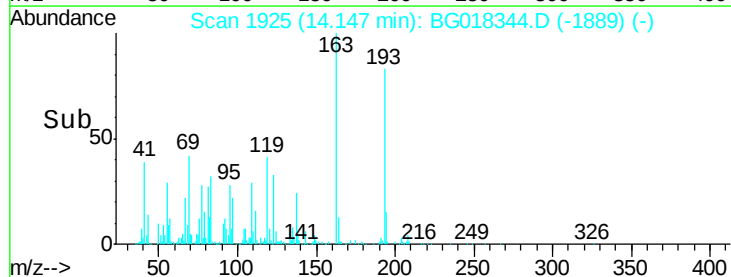
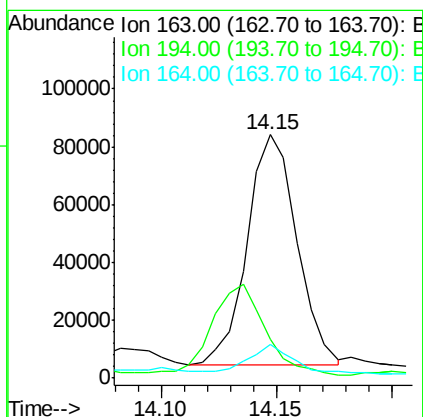
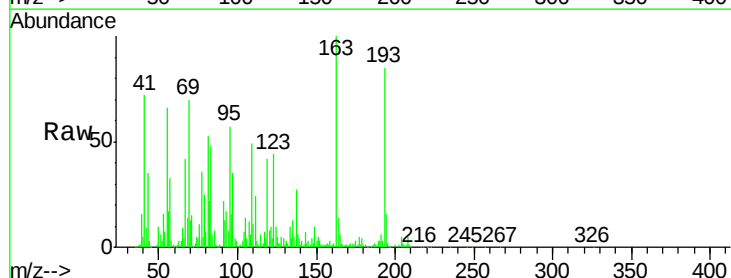
Instrument :
 BNA_G
 ClientSampleId :
 C02L8RX

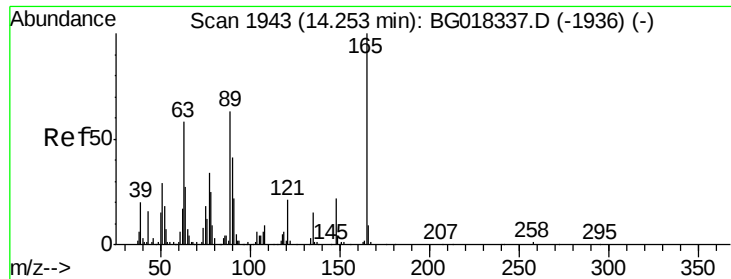
Tgt Ion	Ratio	Lower	Upper
142	100		
141	100.1	76.2	114.2
116	3.2	3.3	4.9#



#45
 Dimethylphthalate
 Concen: 6.12 ng/ul
 RT: 14.15 min Scan# 1925
 Delta R.T. 0.01 min
 Lab File: BG018344.D
 Acq: 10 Aug 2015 00:50

Tgt Ion	Ratio	Lower	Upper
163	100		
194	16.0	3.2	4.8#
164	13.7	8.0	12.0#

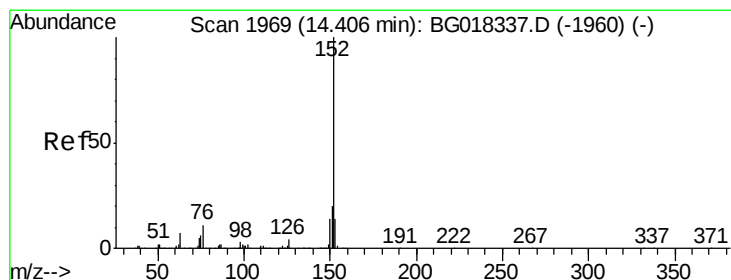
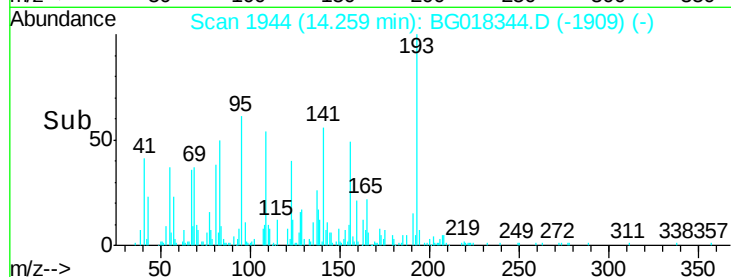
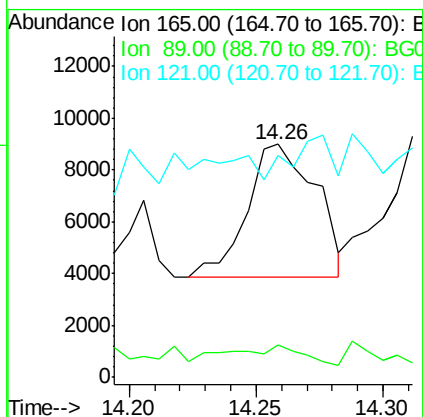
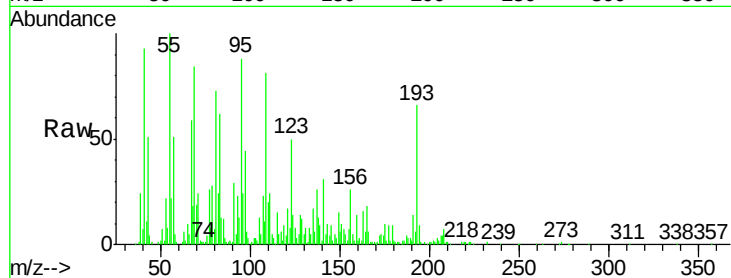




#46
2,6-Dinitrotoluene
Concen: 2.51 ng/ul
RT: 14.26 min Scan# 1944
Delta R.T. 0.01 min
Lab File: BG018344.D
Acq: 10 Aug 2015 00:50

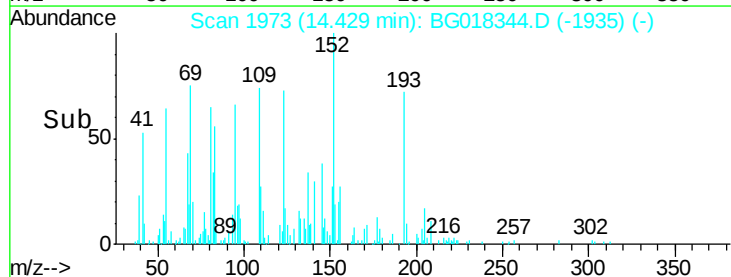
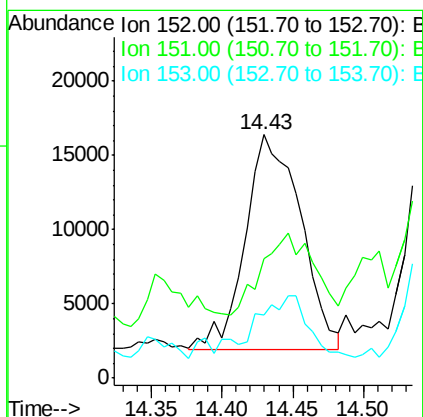
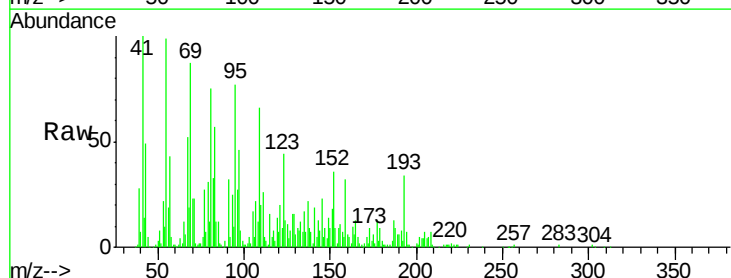
Instrument :
BNA_G
ClientSampleId :
C02L8RX

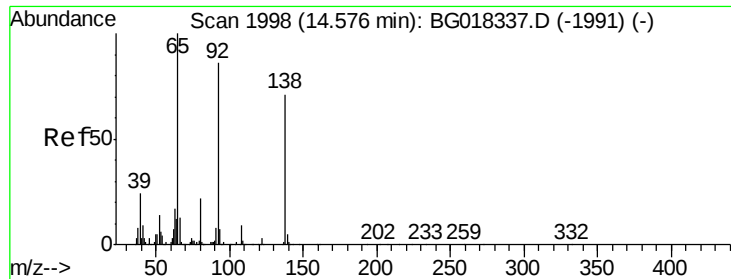
Tgt Ion:165 Resp: 9636
Ion Ratio Lower Upper
165 100
89 13.9 52.1 78.1#
121 95.2 20.8 31.2#



#48
Acenaphthylene
Concen: 1.60 ng/ul
RT: 14.43 min Scan# 1973
Delta R.T. 0.02 min
Lab File: BG018344.D
Acq: 10 Aug 2015 00:50

Tgt Ion:152 Resp: 39810
Ion Ratio Lower Upper
152 100
151 49.2 16.0 24.0#
153 26.0 10.6 16.0#





#49

3-Nitroaniline

Concen: 4.99 ng/ul

RT: 14.62 min Scan# 2005

Delta R.T. 0.04 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

Instrument :

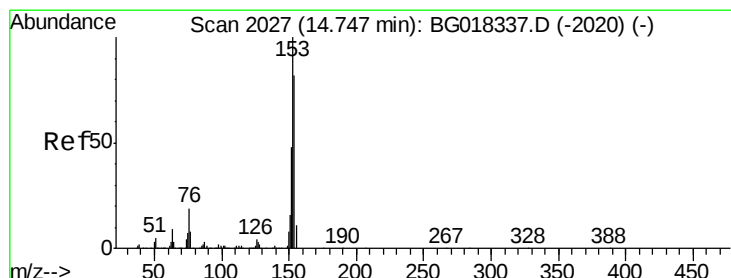
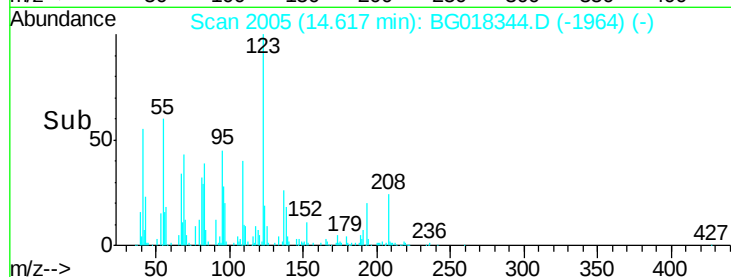
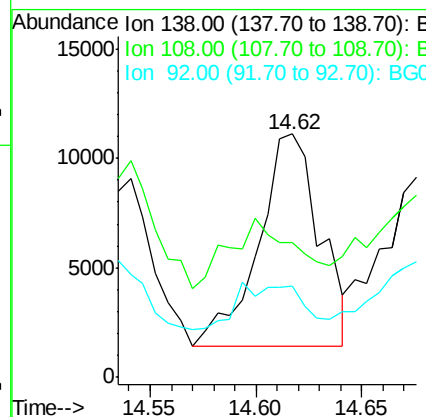
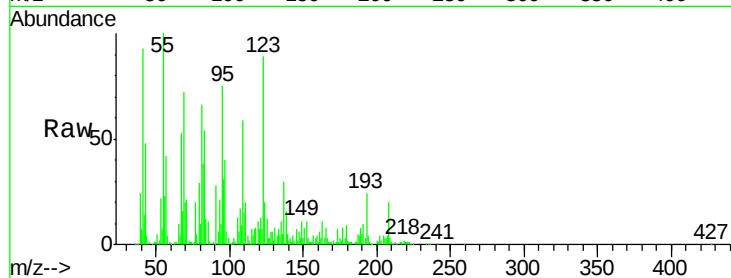
BNA_G

ClientSampled :

C02L8RX

Tgt Ion:138 Resp: 19457

Ion	Ratio	Lower	Upper
138	100		
108	55.5	11.0	16.6#
92	37.7	101.1	151.7#



#50

Acenaphthene

Concen: 3.77 ng/ul

RT: 14.76 min Scan# 2030

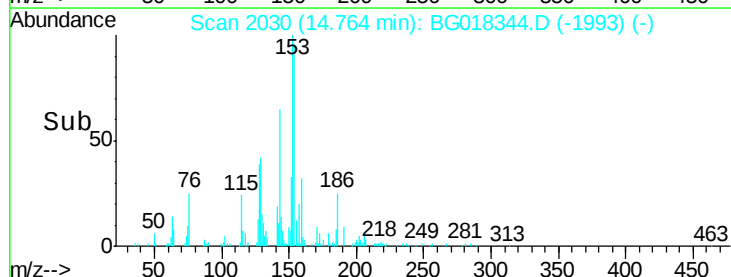
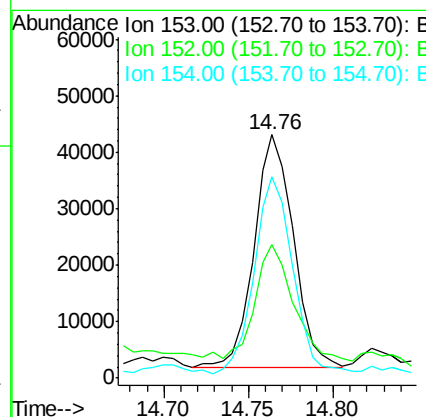
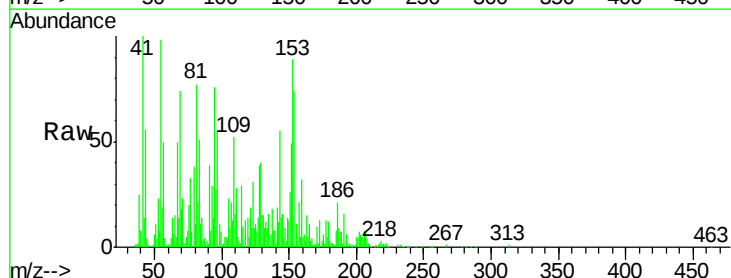
Delta R.T. 0.02 min

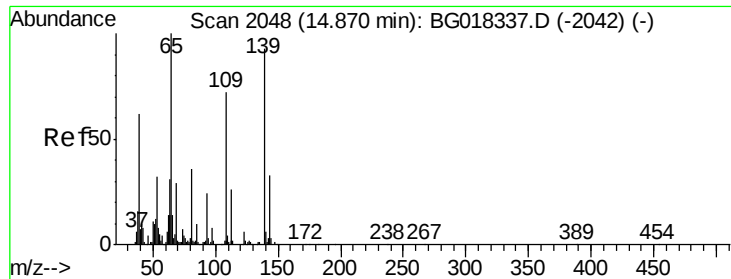
Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

Tgt Ion:153 Resp: 65630

Ion	Ratio	Lower	Upper
153	100		
152	54.9	36.7	55.1
154	82.9	69.0	103.4





#53

4-Nitrophenol

Concen: 1.34 ng/ul

RT: 14.89 min Scan# 2052

Delta R.T. 0.02 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

Instrument :

BNA_G

ClientSampleId :

C02L8RX

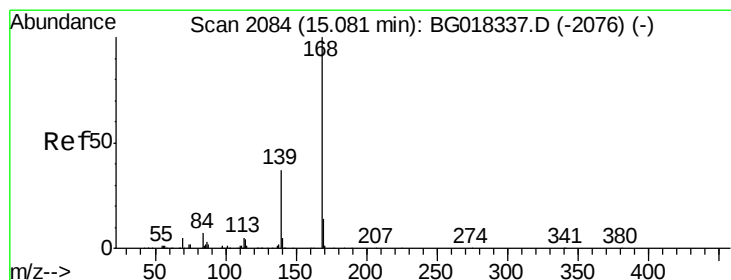
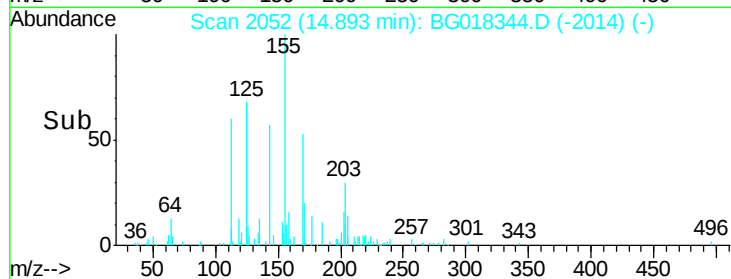
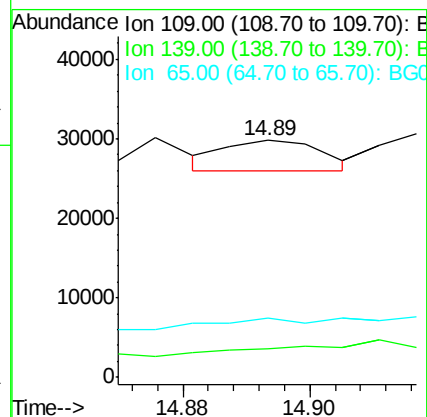
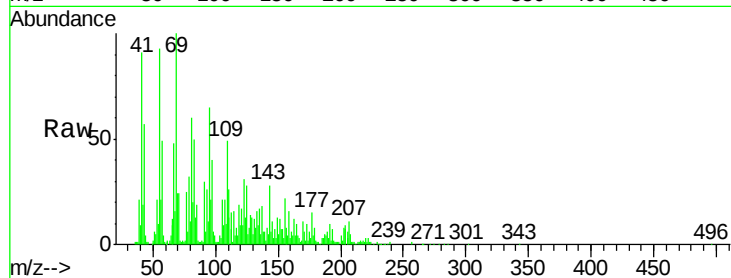
Tgt Ion:109 Resp: 4103

Ion Ratio Lower Upper

109 100

139 12.0 102.2 153.4#

65 25.0 108.6 163.0#



#54

Dibenzofuran

Concen: 1.80 ng/ul

RT: 15.09 min Scan# 2086

Delta R.T. 0.01 min

Lab File: BG018344.D

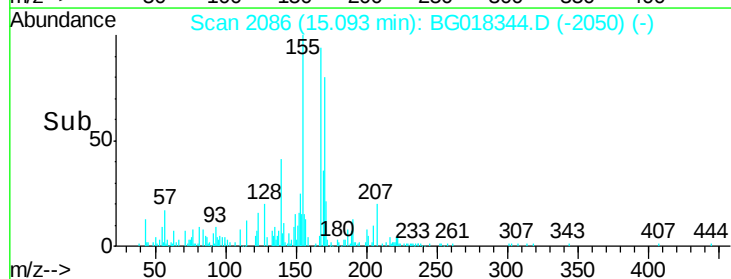
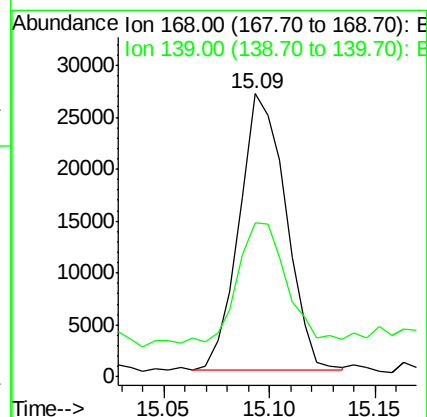
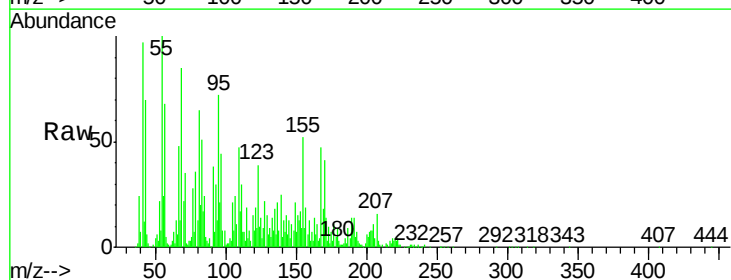
Acq: 10 Aug 2015 00:50

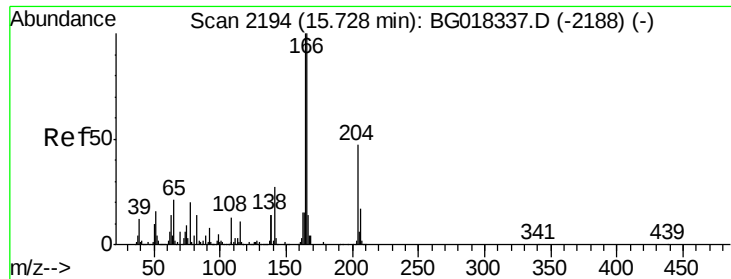
Tgt Ion:168 Resp: 40836

Ion Ratio Lower Upper

168 100

139 54.4 31.4 47.0#





#59

Fluorene

Concen: 4.44 ng/ul

RT: 15.75 min Scan# 2197

Delta R.T. 0.02 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

Instrument :

BNA_G

ClientSampleId :

C02L8RX

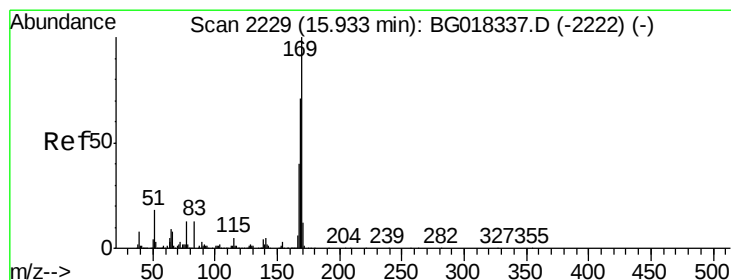
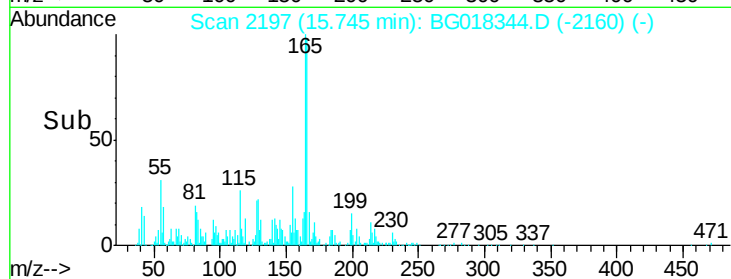
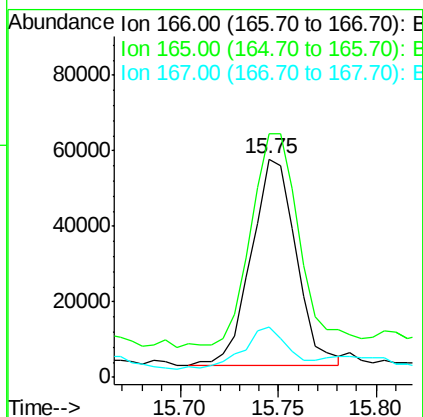
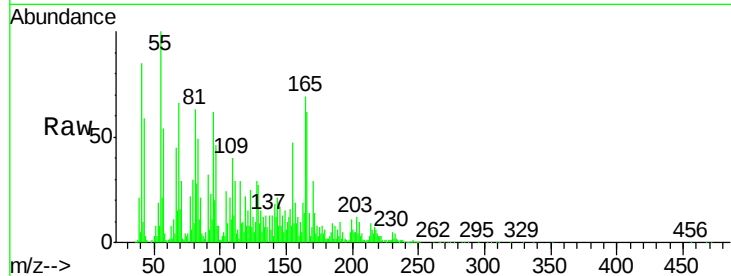
Tgt Ion:166 Resp: 86955

Ion Ratio Lower Upper

166 100

165 111.6 79.7 119.5

167 22.9 10.8 16.2#



#65

N-Nitrosodiphenylamine

Concen: 4.24 ng/ul

RT: 15.96 min Scan# 2234

Delta R.T. 0.03 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

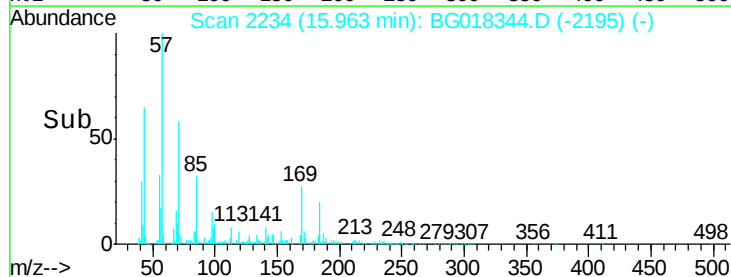
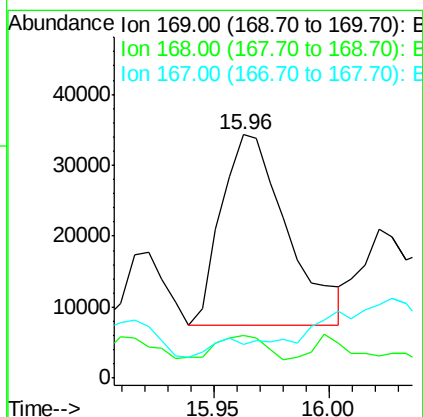
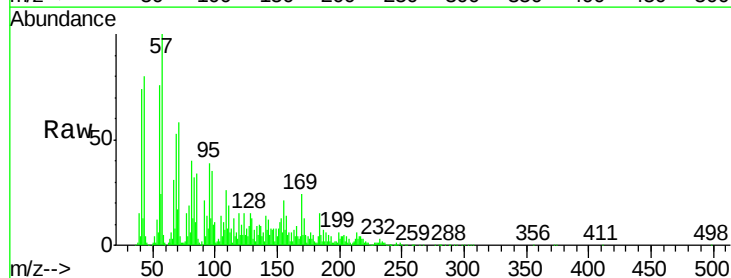
Tgt Ion:169 Resp: 53303

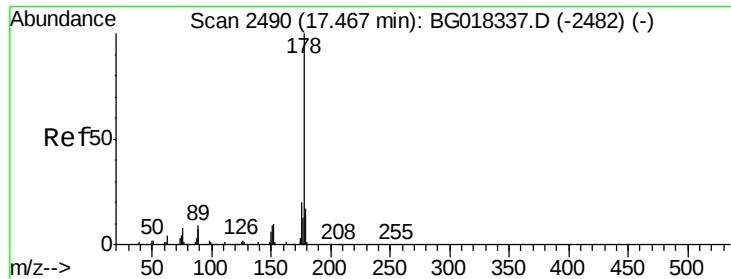
Ion Ratio Lower Upper

169 100

168 17.7 60.5 90.7#

167 13.8 31.7 47.5#





#70

Phenanthrene

Concen: 28.62 ng/ul

RT: 17.50 min Scan# 2495

Delta R.T. 0.03 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

Instrument :

BNA_G

ClientSampleId :

C02L8RX

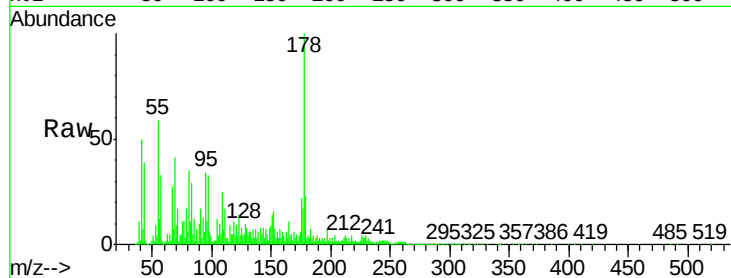
Tgt Ion:178 Resp: 649965

Ion Ratio Lower Upper

178 100

179 22.9 12.4 18.6#

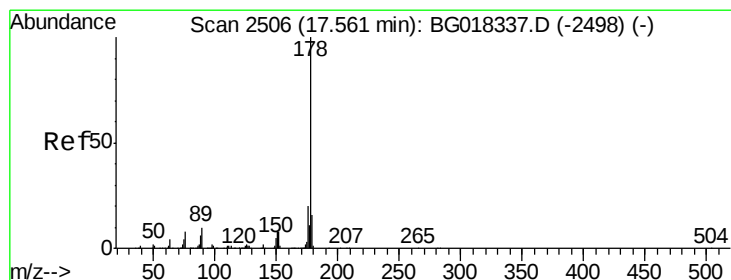
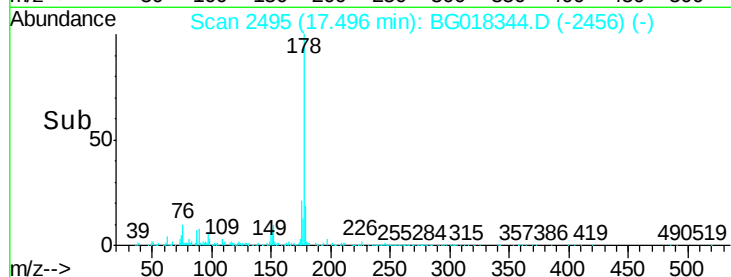
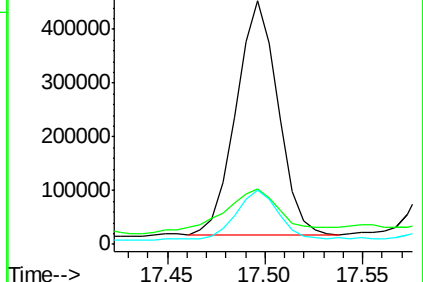
176 22.0 15.9 23.9



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Anthracene

Concen: 6.59 ng/ul

RT: 17.58 min Scan# 2510

Delta R.T. 0.02 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

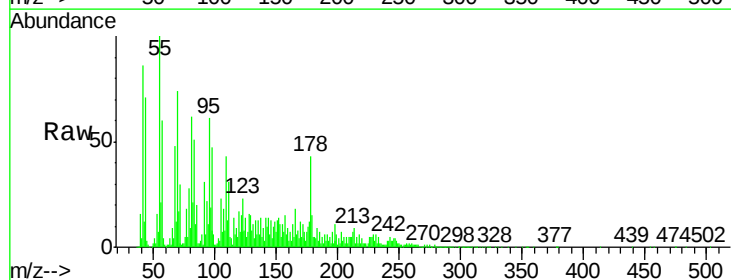
Tgt Ion:178 Resp: 152539

Ion Ratio Lower Upper

178 100

179 35.2 12.8 19.2#

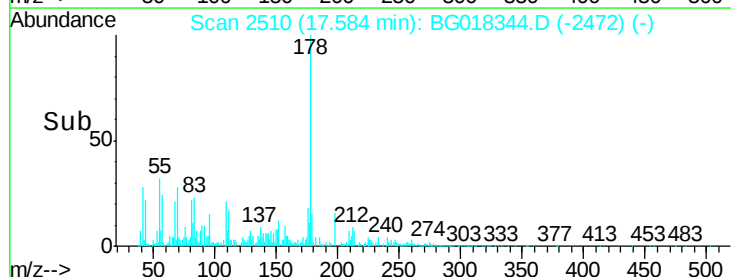
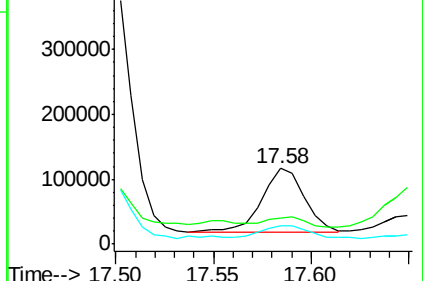
176 24.0 15.9 23.9#

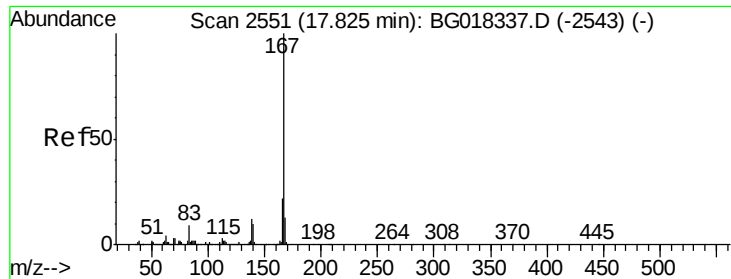


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 2.14 ng/ul

RT: 17.85 min Scan# 2555

Delta R.T. 0.02 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

Instrument :

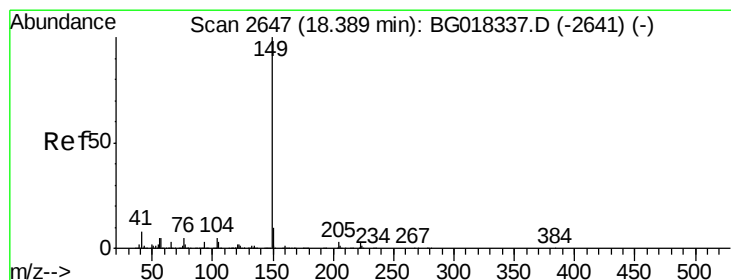
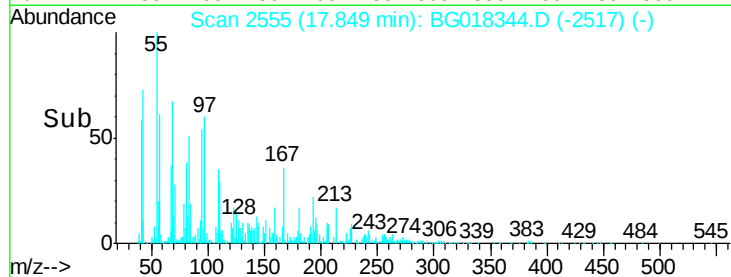
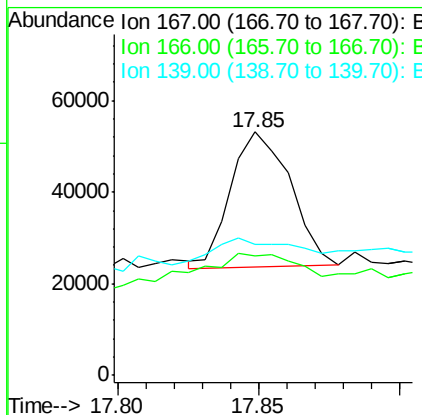
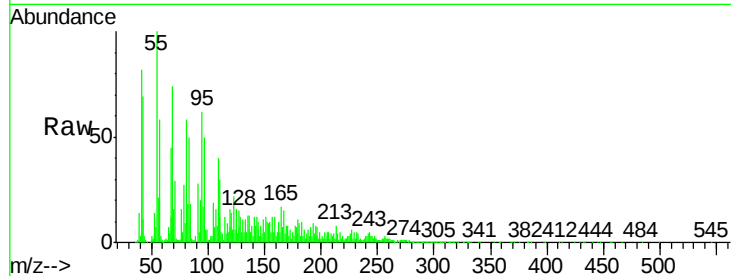
BNA_G

ClientSampleId :

C02L8RX

Tgt Ion:167 Resp: 43432

Ion	Ratio	Lower	Upper
167	100		
166	49.1	19.3	28.9#
139	53.6	10.7	16.1#



#76

Di-n-butylphthalate

Concen: 2.41 ng/ul

RT: 18.42 min Scan# 2652

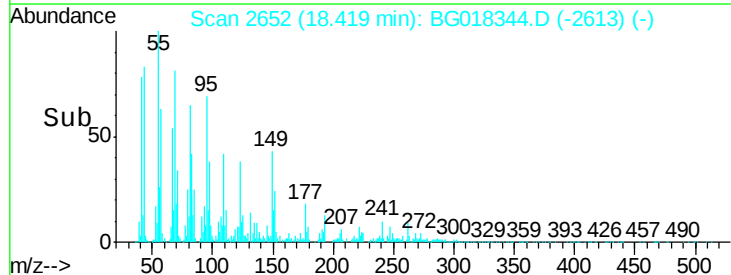
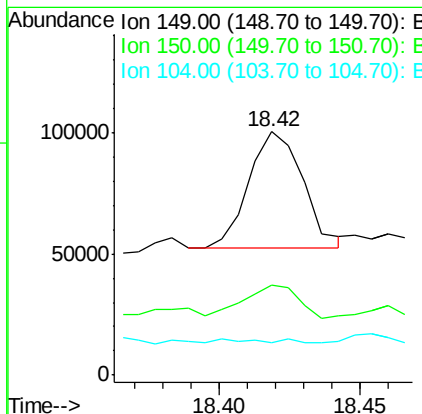
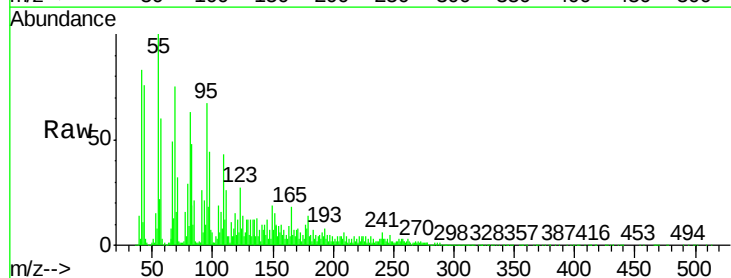
Delta R.T. 0.03 min

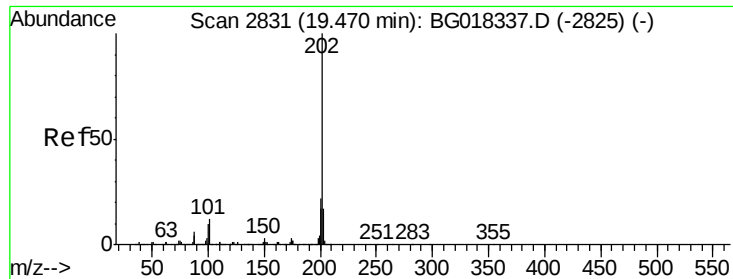
Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

Tgt Ion:149 Resp: 63874

Ion	Ratio	Lower	Upper
149	100		
150	36.8	7.4	11.2#
104	13.3	4.6	7.0#

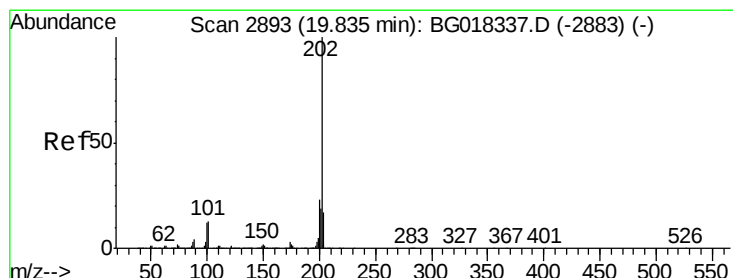
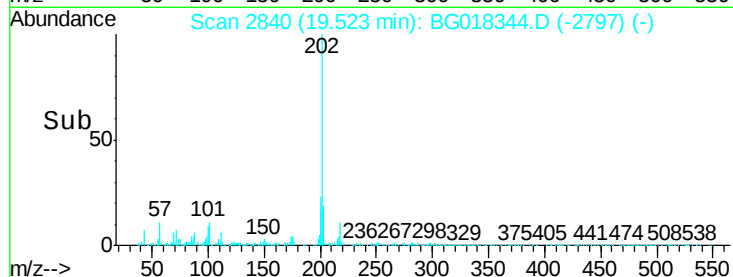
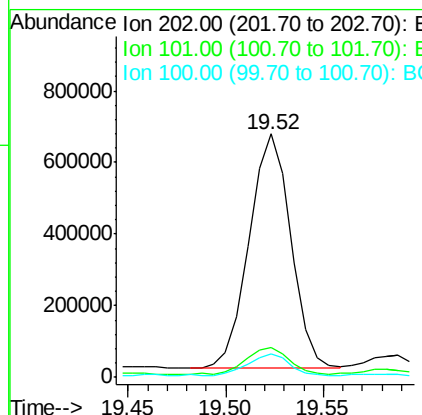
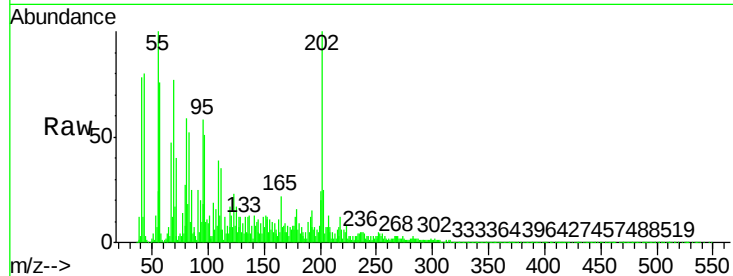




#77
 Fluoranthene
 Concen: 39.94 ng/ul
 RT: 19.52 min Scan# 2840
 Delta R.T. 0.05 min
 Lab File: BG018344.D
 Acq: 10 Aug 2015 00:50

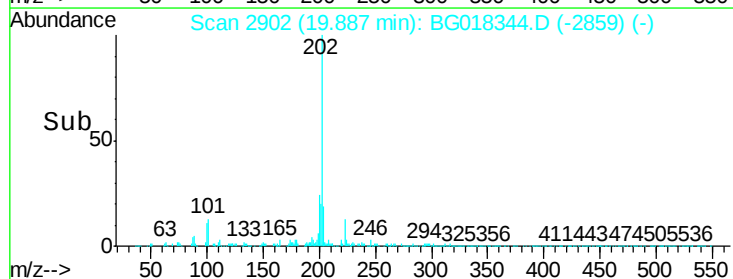
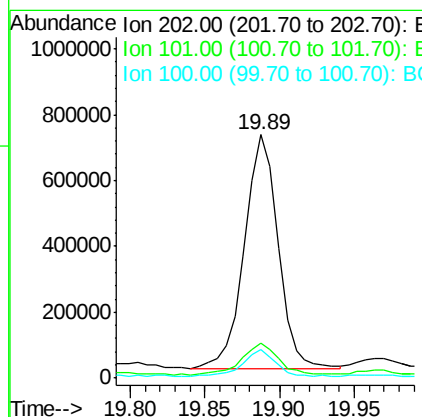
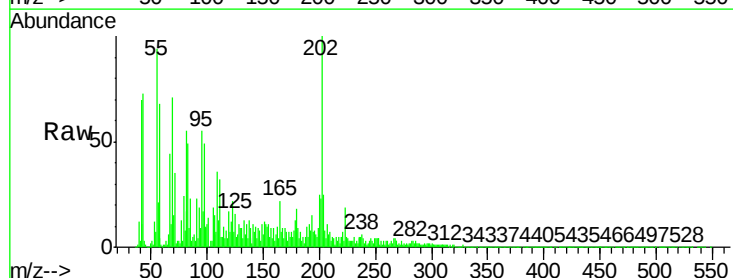
Instrument :
 BNA_G
 ClientSampleId :
 C02L8RX

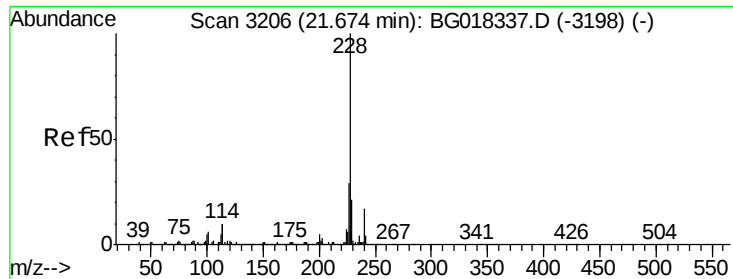
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.5	8.9	13.3
100	9.4	8.5	12.7



#80
 Pyrene
 Concen: 42.46 ng/ul
 RT: 19.89 min Scan# 2902
 Delta R.T. 0.05 min
 Lab File: BG018344.D
 Acq: 10 Aug 2015 00:50

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.1	11.3	16.9
100	11.5	9.6	14.4





#83

Benzo(a)anthracene

Concen: 17.95 ng/ul

RT: 21.74 min Scan# 3218

Delta R.T. 0.07 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

Instrument :

BNA_G

ClientSampleId :

C02L8RX

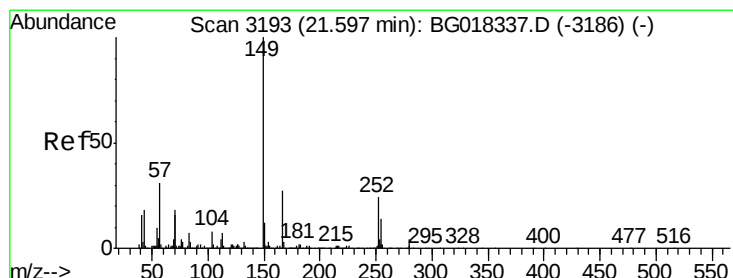
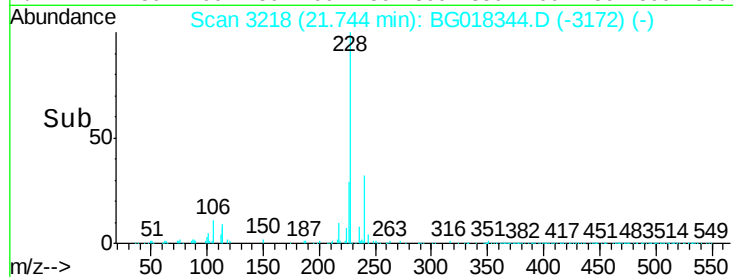
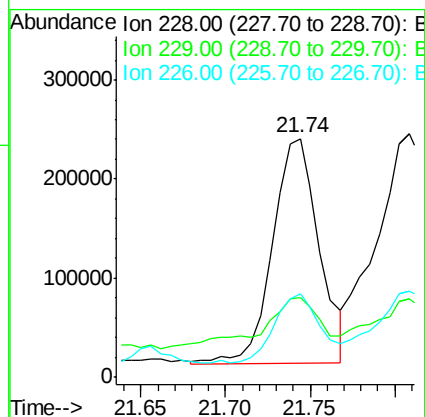
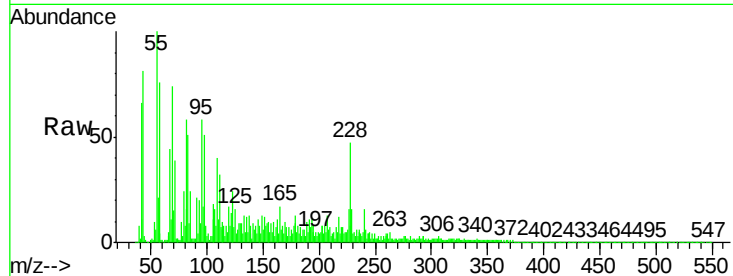
Tgt Ion:228 Resp: 432388

Ion Ratio Lower Upper

228 100

229 33.2 15.4 23.2#

226 34.9 22.3 33.5#



#84

Bis(2-ethylhexyl)phthalate

Concen: 11.65 ng/ul

RT: 21.64 min Scan# 3200

Delta R.T. 0.04 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

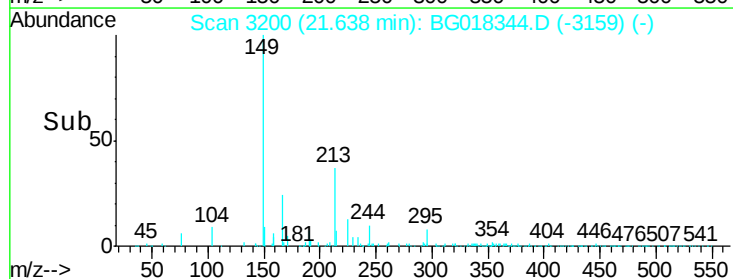
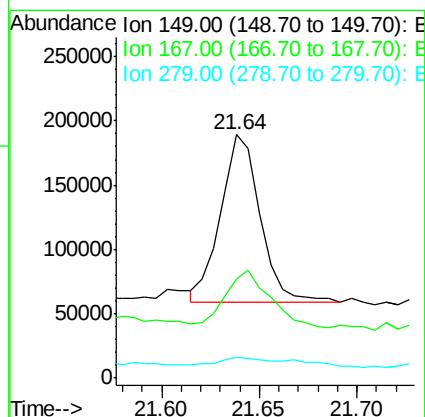
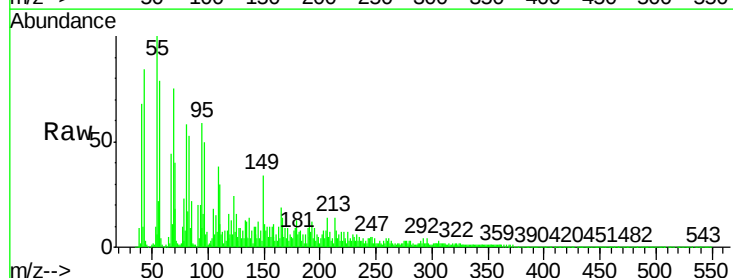
Tgt Ion:149 Resp: 183833

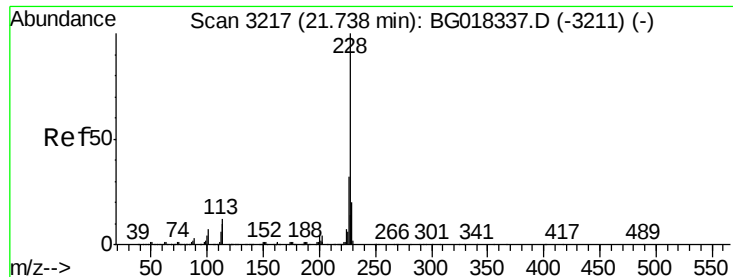
Ion Ratio Lower Upper

149 100

167 40.5 21.8 32.6#

279 8.5 2.8 4.2#





#85

Chrysene

Concen: 23.38 ng/ul

RT: 21.81 min Scan# 3229

Delta R.T. 0.07 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

Instrument :

BNA_G

ClientSampleId :

C02L8RX

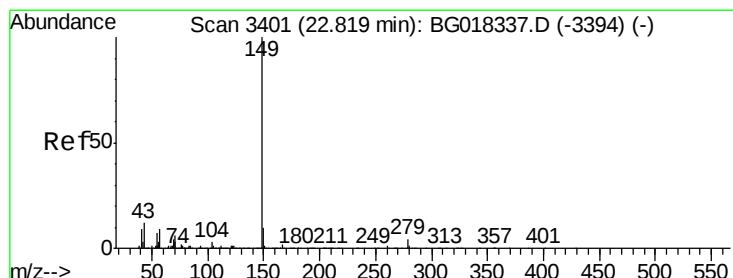
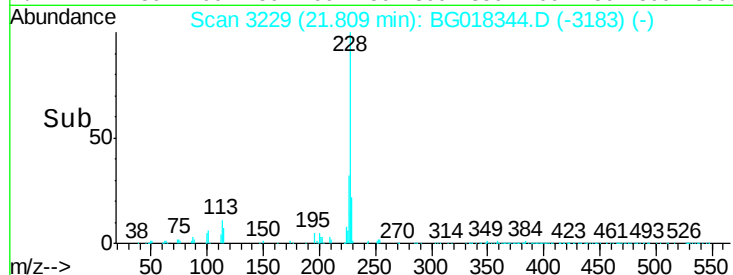
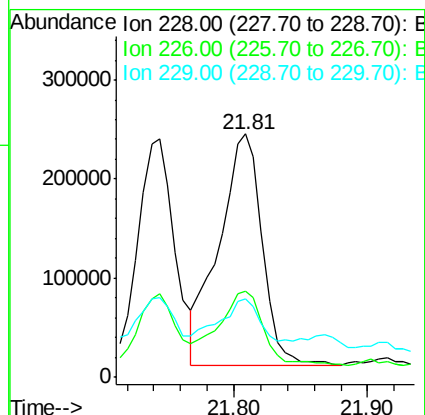
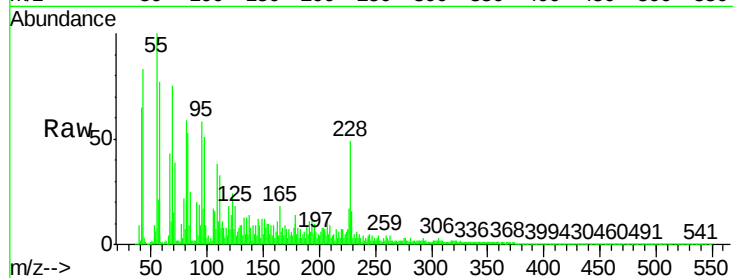
Tgt Ion:228 Resp: 527135

Ion Ratio Lower Upper

228 100

226 35.4 24.6 37.0

229 32.3 16.0 24.0#



#87

Di-n-octyl phthalate

Concen: 405.37 ng/ul

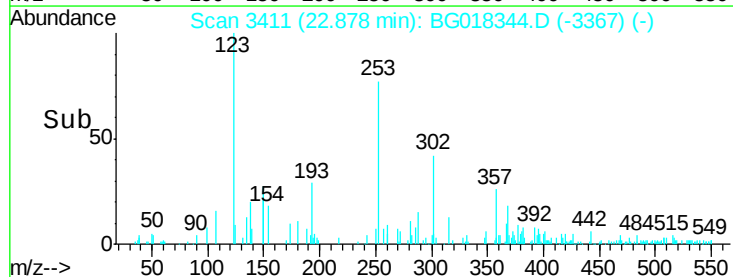
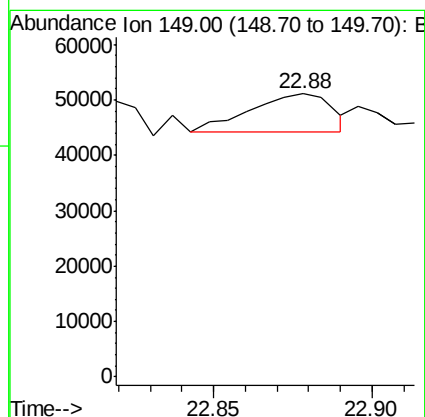
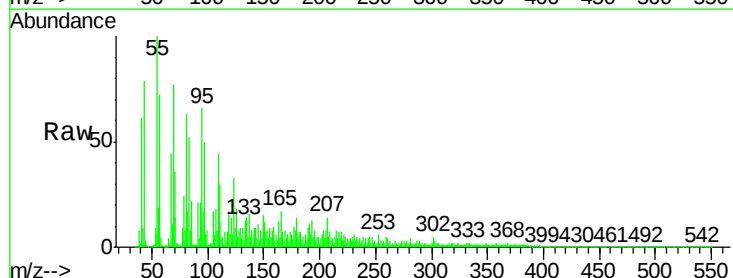
RT: 22.88 min Scan# 3411

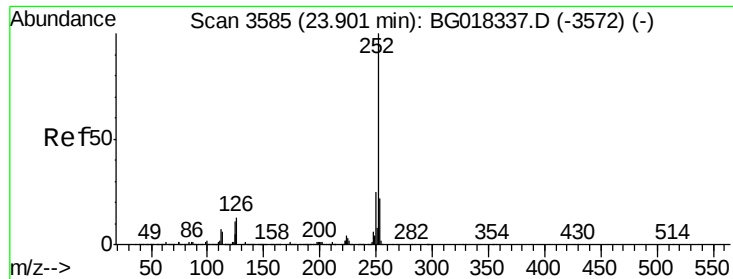
Delta R.T. 0.06 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

Tgt Ion:149 Resp: 12656





#88

Benzo(b)fluoranthene

Concen: 42.10 ng/ul

RT: 23.92 min Scan# 3589

Delta R.T. 0.02 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

Instrument :

BNA_G

ClientSampleId :

C02L8RX

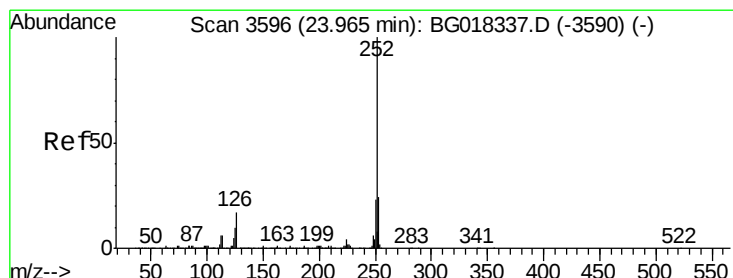
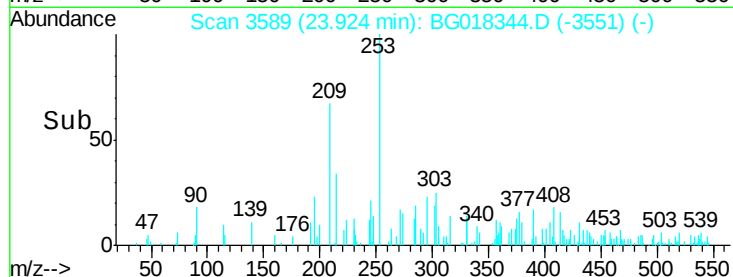
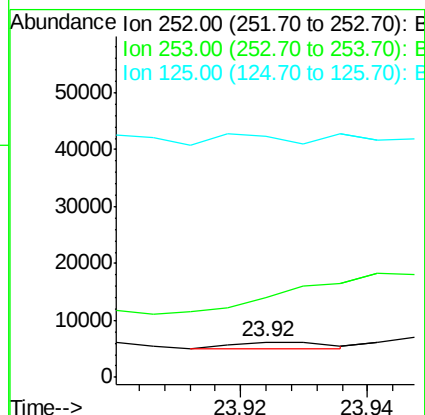
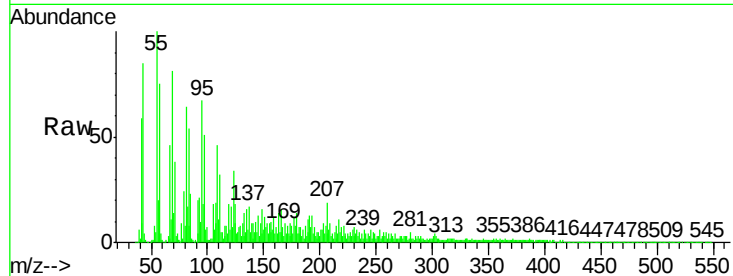
Tgt Ion:252 Resp: 1276

Ion Ratio Lower Upper

252 100

253 225.6 18.0 27.0#

125 684.8 8.6 12.8#



#89

Benzo(k)fluoranthene

Concen: 24387.09 ng/ul

RT: 24.01 min Scan# 3603

Delta R.T. 0.04 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

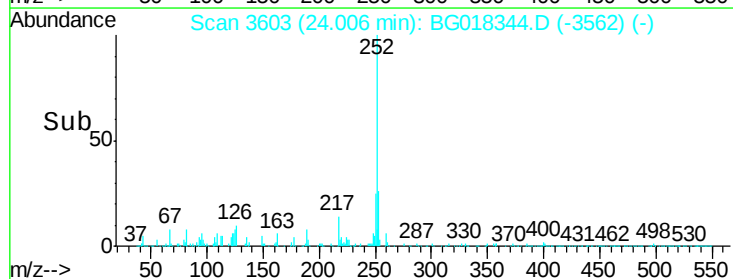
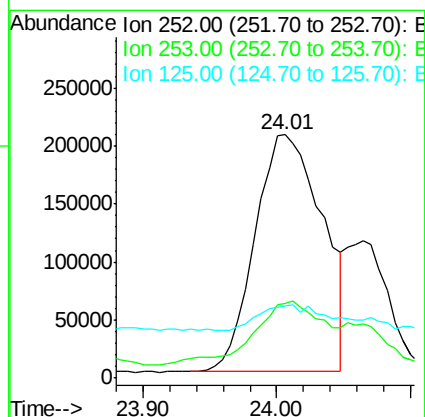
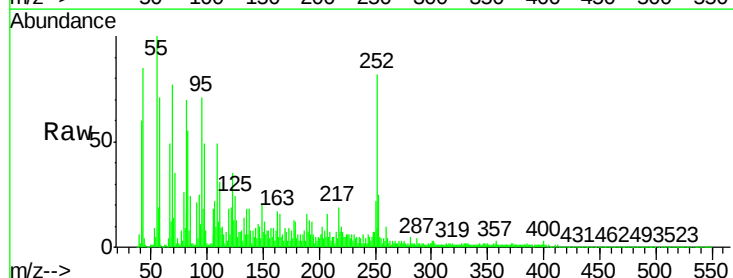
Tgt Ion:252 Resp: 715653

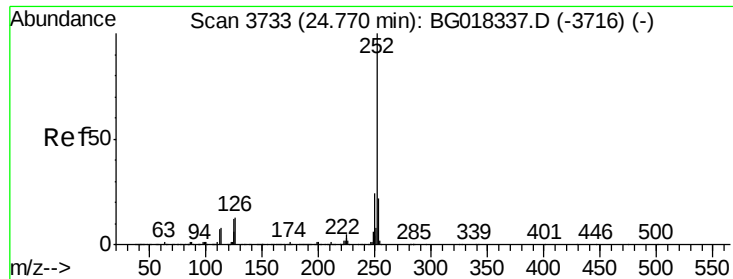
Ion Ratio Lower Upper

252 100

253 30.5 17.0 25.4#

125 29.5 7.7 11.5#





#91

Benzo(a)pyrene

Concen: 13948.39 ng/u1

RT: 24.74 min Scan# 3728

Delta R.T. -0.03 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

Instrument :

BNA_G

ClientSampleId :

C02L8RX

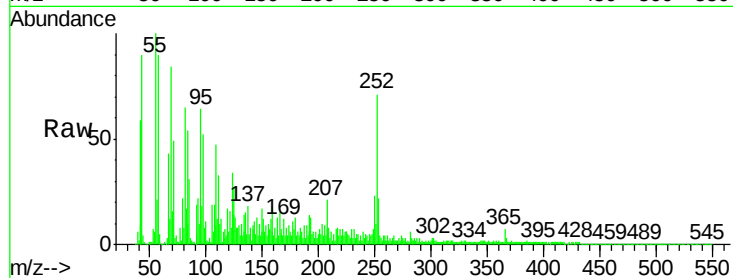
Tgt Ion:252 Resp: 402007

Ion Ratio Lower Upper

252 100

253 31.3 18.6 27.8#

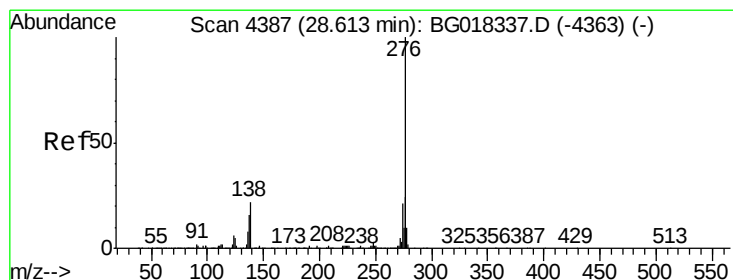
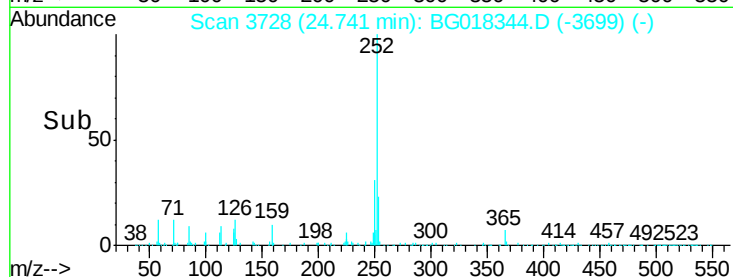
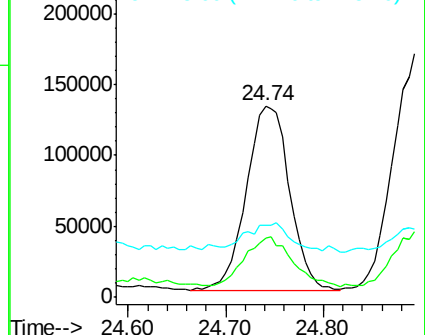
125 37.6 9.8 14.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92

Indeno(1,2,3-cd)pyrene

Concen: 18.94 ng/u1

RT: 28.67 min Scan# 4396

Delta R.T. 0.05 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

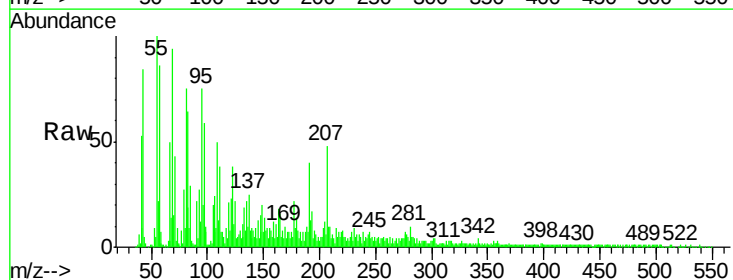
Tgt Ion:276 Resp: 633

Ion Ratio Lower Upper

276 100

138 142.9 15.9 23.9#

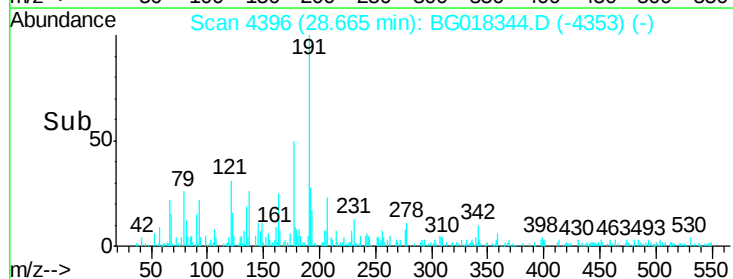
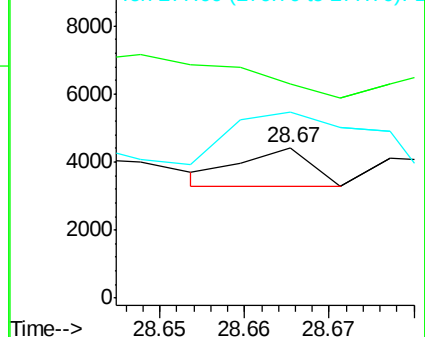
277 123.8 19.0 28.6#

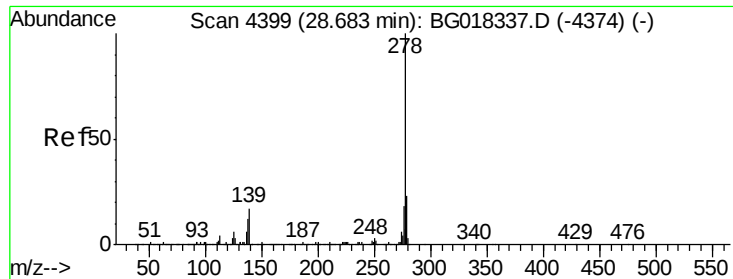


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 41.44 ng/ul

RT: 28.72 min Scan# 4405

Delta R.T. 0.04 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

Instrument :

BNA_G

ClientSampleId :

C02L8RX

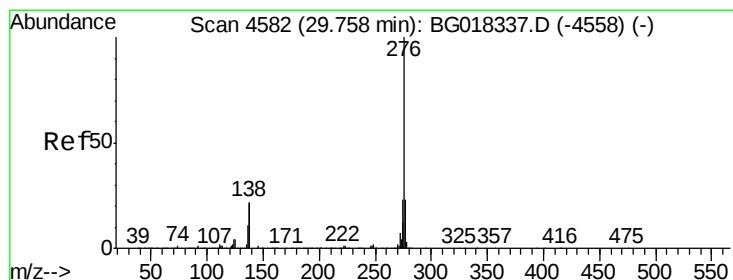
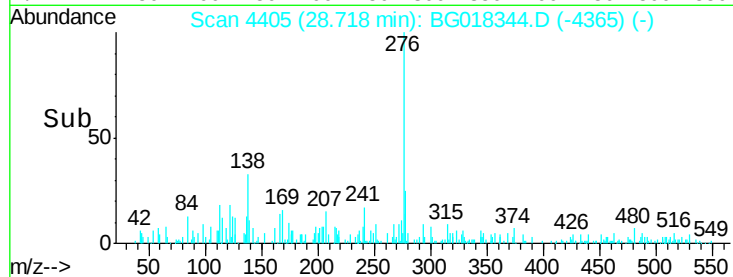
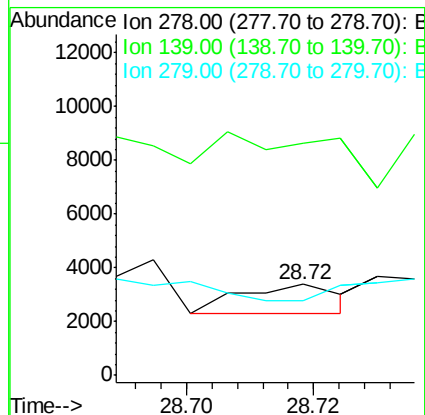
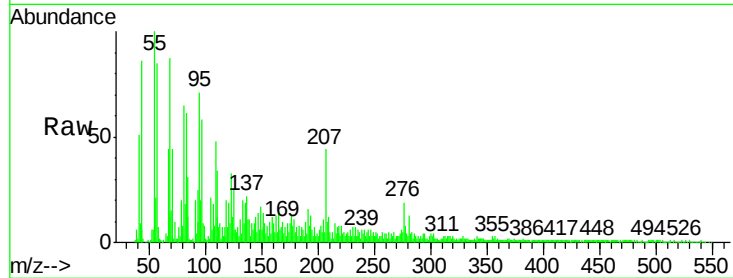
Tgt Ion:278 Resp: 1149

Ion Ratio Lower Upper

278 100

139 254.2 12.2 18.2#

279 81.2 18.3 27.5#



#94

Benzo(g,h,i)perylene

Concen: 10203.03 ng/ul

RT: 29.93 min Scan# 4612

Delta R.T. 0.18 min

Lab File: BG018344.D

Acq: 10 Aug 2015 00:50

Tgt Ion:276 Resp: 285290

Ion Ratio Lower Upper

276 100

138 23.8 17.4 26.0

277 23.9 18.4 27.6

