

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080915\
 Data File : BG018348.D
 Acq On : 10 Aug 2015 3:21
 Operator : UM/TP
 Sample : G3136-23
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C01J7

Quant Time: Aug 10 04:52:16 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	142279	20.00	ng/ul	0.01
18) Naphthalene-d8	10.89	136	659872	20.00	ng/ul	0.02
36) Acenaphthene-d10	14.70	164	389255	20.00	ng/ul	0.02
62) Phenanthrene-d10	17.44	188	792196	20.00	ng/ul	0.02
78) Chrysene-d12	21.72	240	677312	20.00	ng/ul	0.02
86) Perylene-d12	24.98	264	686646	20.00	ng/ul	0.05

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.53	96	5187	1.62	ng/uL	0.00
5) Phenol-d5	7.23	99	137689	10.77	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	7.40	67	85154	10.67	ng/ul	0.00
9) 2-Chlorophenol-d4	7.61	132	108671	11.04	ng/ul	0.01
13) 4-Methylphenol-d8	8.77	113	113649	10.55	ng/ul	0.01
19) Nitrobenzene-d5	9.23	128	53950	10.67	ng/ul	0.00
22) 2-Nitrophenol-d4	9.95	143	55101	10.78	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.50	165	111233	10.08	ng/ul	0.01
29) 4-Chloroaniline-d4	11.01	131	133113	10.80	ng/ul	0.00
44) Dimethylphthalate-d6	14.10	166	322981	9.94	ng/ul	0.01
47) Acenaphthylene-d8	14.40	160	356662	8.76	ng/ul	0.02
52) 4-Nitrophenol-d4	14.88	143	28596	4.90	ng/ul	0.02
58) Fluorene-d10	15.69	176	237243	8.41	ng/ul	0.01
63) 4,6-Dinitro-2-methylphenol	15.80	200	3907	1.01	ng/ul	0.02
71) Anthracene-d10	17.54	188	327696	8.72	ng/ul	0.02
79) Pyrene-d10	19.82	212	322702	9.27	ng/ul	0.01
90) Benzo(a)pyrene-d12	24.75	264	334328	9.23	ng/ul	0.05

Target Compounds

						Qvalue
17) Hexachloroethane	9.18	117	8195	1.90	ng/ul#	11
28) Naphthalene	10.93	128	48978	1.42	ng/ul#	85
34) 2-Methylnaphthalene	12.54	142	274363	11.02	ng/ul	96
35) 1-Methylnaphthalene	12.75	142	303570	12.53	ng/ul	99
45) Dimethylphthalate	14.15	163	192105	6.00	ng/ul#	99
48) Acenaphthylene	14.42	152	119915	2.93	ng/ul#	74
50) Acenaphthene	14.77	153	70665	2.46	ng/ul	93
59) Fluorene	15.75	166	101803	3.15	ng/ul#	89
65) N-Nitrosodiphenylamine	15.96	169	117547	4.94	ng/ul#	50
70) Phenanthrene	17.49	178	1029422	23.97	ng/ul	94
72) Anthracene	17.49	178	1032639	23.60	ng/ul	95
75) Carbazole	17.84	167	81301	2.12	ng/ul#	79
77) Fluoranthene	19.64	202	78473	1.71	ng/ul	96
80) Pyrene	19.86	202	2311683	51.09	ng/ul#	93
83) Benzo(a)anthracene	21.70	228	1631729	39.18	ng/ul#	91
85) Chrysene	21.77	228	1615144	41.43	ng/ul	91
88) Benzo(b)fluoranthene	23.95	252	2320007	54.18	ng/ul#	95
89) Benzo(k)fluoranthene	23.95	252	2320007	55.96	ng/ul#	92
91) Benzo(a)pyrene	24.84	252	1682764	41.33	ng/ul	99
92) Indeno(1,2,3-cd)pyrene	28.71	276	1120479	23.73	ng/ul	97
93) Dibenzo(a,h)anthracene	28.74	278	145983	3.73	ng/ul	93
94) Benzo(g,h,i)perylene	29.87	276	841458	21.30	ng/ul	98

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Response via : Initial Calibration

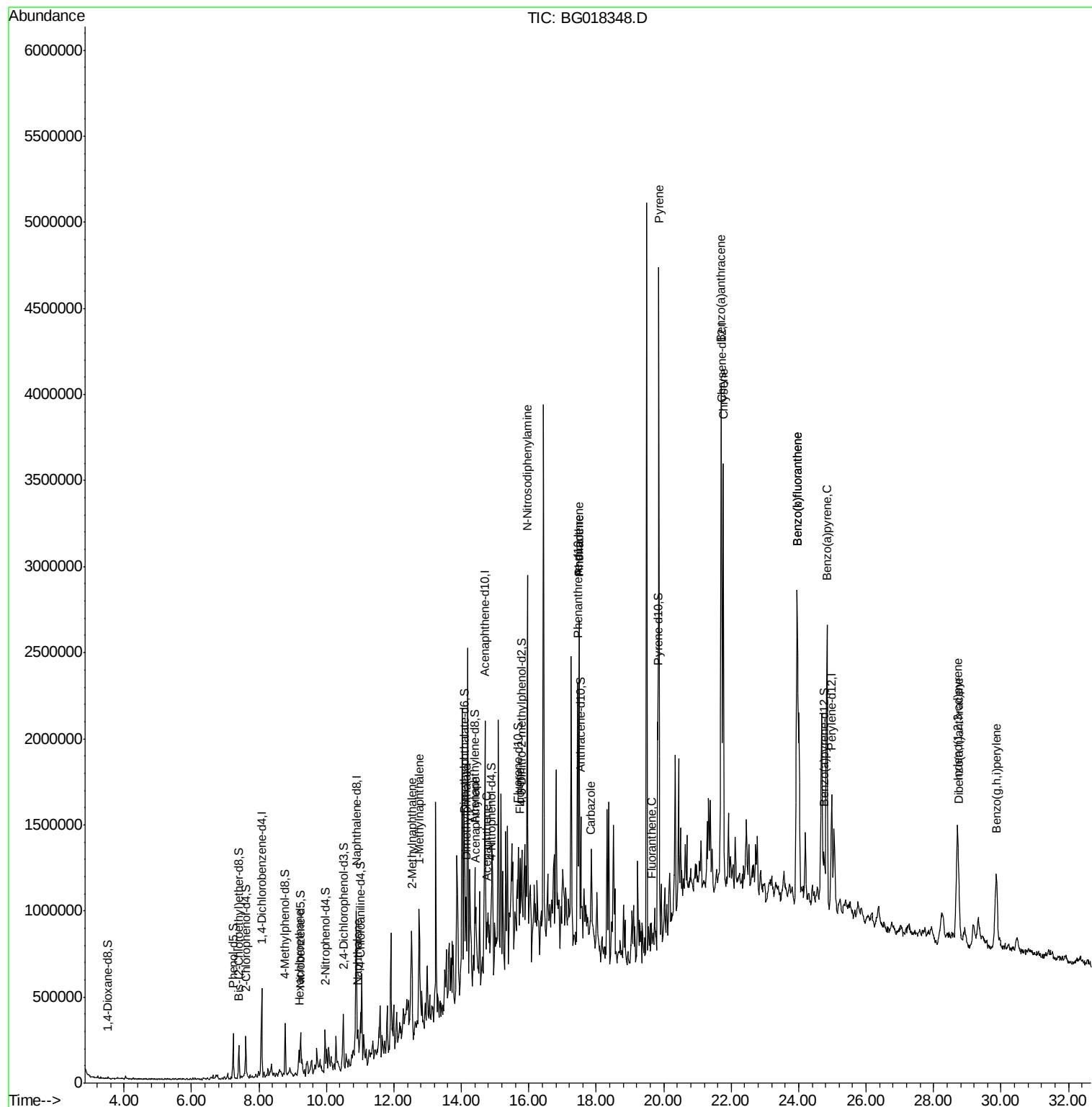
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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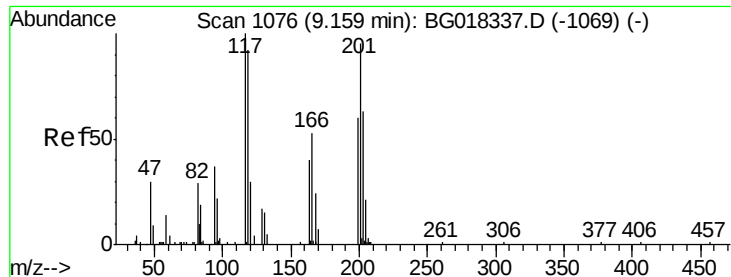
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#17

Hexachloroethane

Concen: 1.90 ng/ul

RT: 9.18 min Scan# 1080

Delta R.T. 0.02 min

Lab File: BG018348.D

Acq: 10 Aug 2015 3:21

Instrument :

BNA_G

ClientSampleId :

C01J7

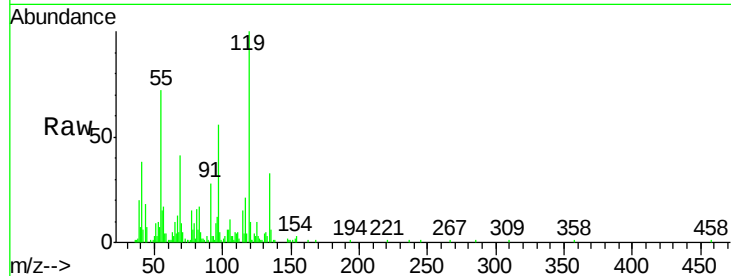
Tgt Ion:117 Resp: 8195

Ion Ratio Lower Upper

117 100

201 0.0 70.4 105.6#

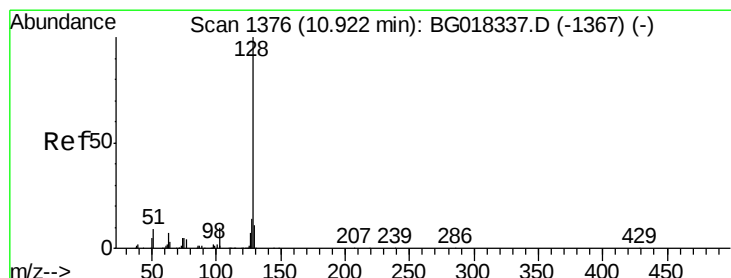
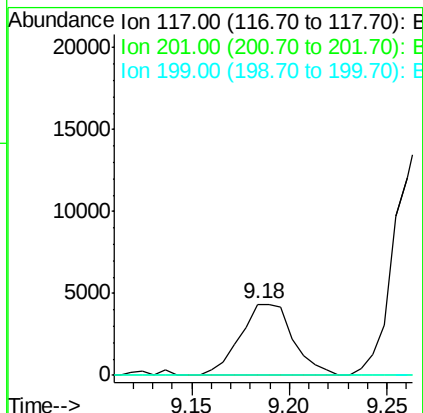
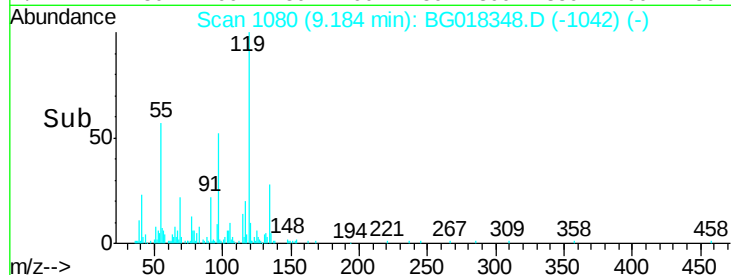
199 0.0 50.6 75.8#



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: 1.42 ng/ul

RT: 10.93 min Scan# 1377

Delta R.T. 0.01 min

Lab File: BG018348.D

Acq: 10 Aug 2015 3:21

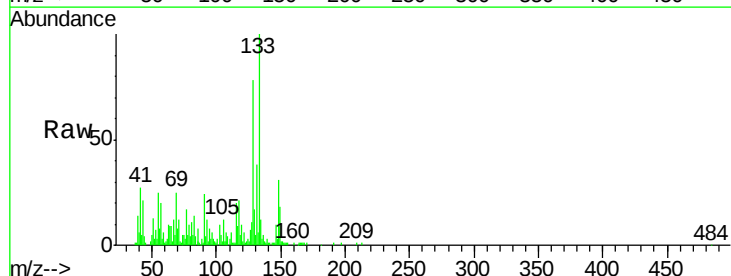
Tgt Ion:128 Resp: 48978

Ion Ratio Lower Upper

128 100

129 22.5 8.6 13.0#

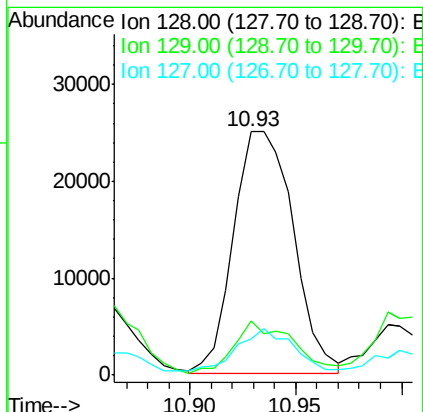
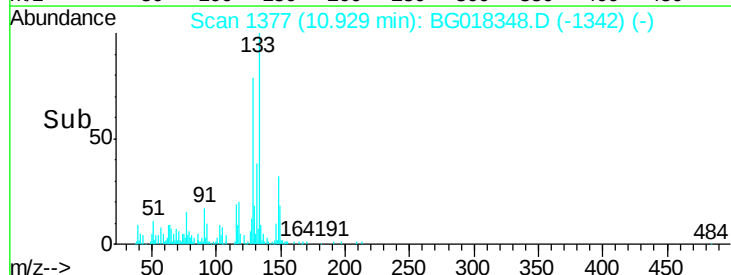
127 14.7 10.8 16.2

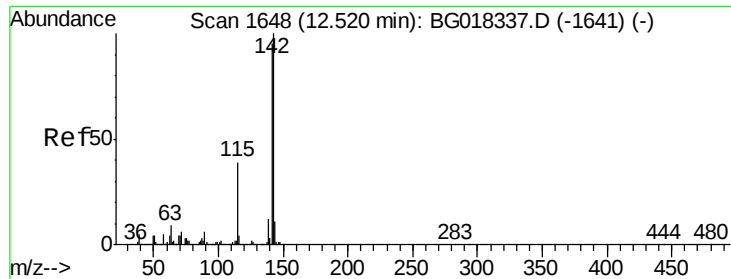


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

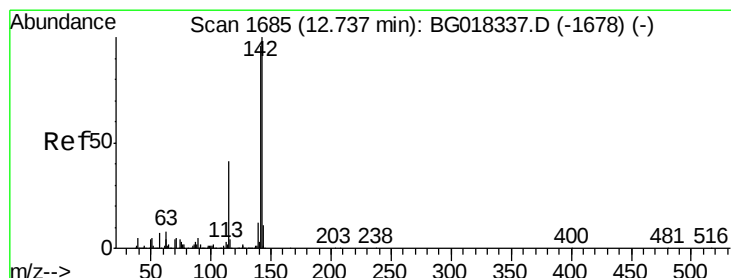
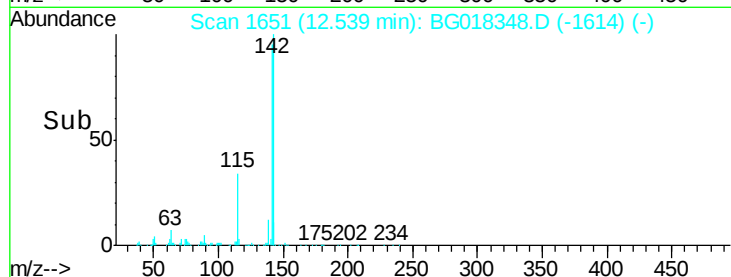
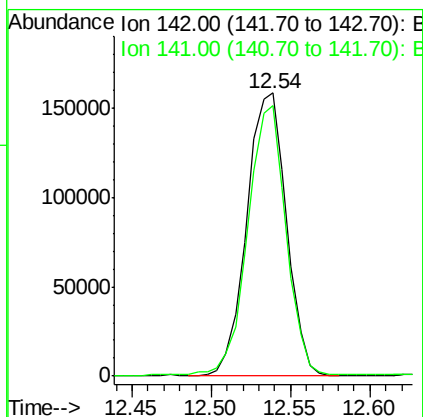
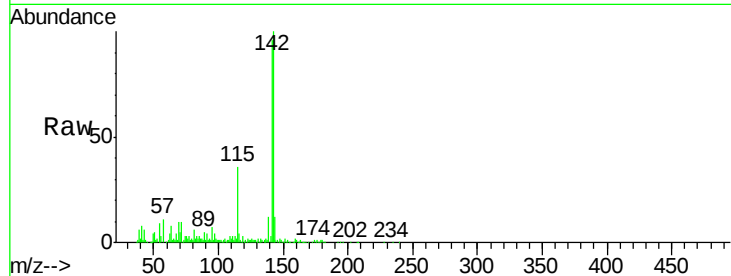




#34
 2-Methylnaphthalene
 Concen: 11.02 ng/ul
 RT: 12.54 min Scan# 1651
 Delta R.T. 0.02 min
 Lab File: BG018348.D
 Acq: 10 Aug 2015 3:21

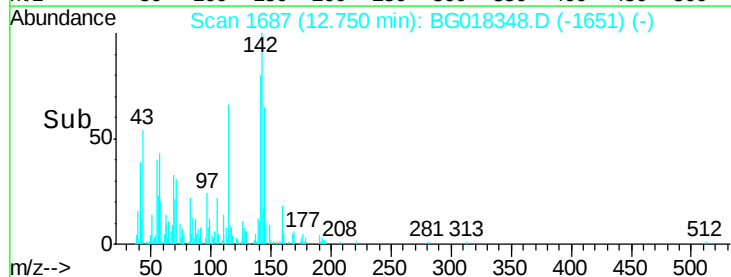
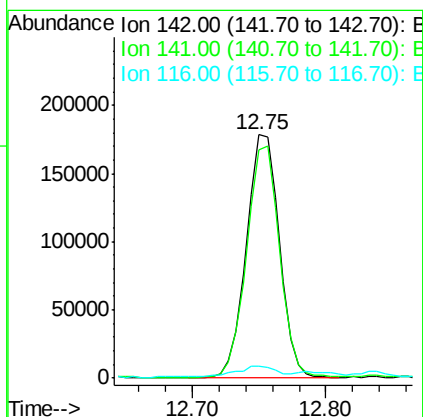
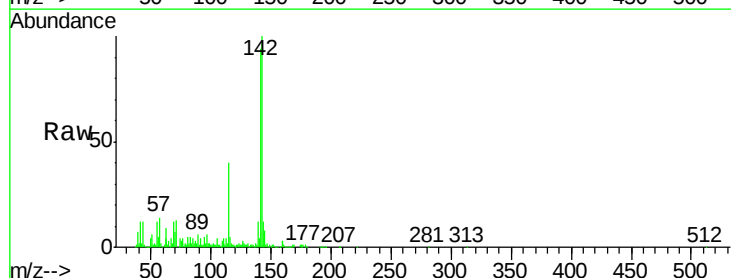
Instrument :
 BNA_G
 ClientSampleId :
 C01J7

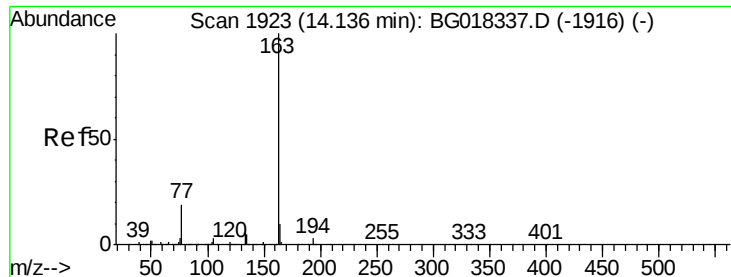
Tgt Ion:142 Resp: 274363
 Ion Ratio Lower Upper
 142 100
 141 95.6 73.7 110.5



#35
 1-Methylnaphthalene
 Concen: 12.53 ng/ul
 RT: 12.75 min Scan# 1687
 Delta R.T. 0.01 min
 Lab File: BG018348.D
 Acq: 10 Aug 2015 3:21

Tgt Ion:142 Resp: 303570
 Ion Ratio Lower Upper
 142 100
 141 93.9 76.2 114.2
 116 4.7 3.3 4.9





#45

Dimethylphthalate

Concen: 6.00 ng/ul

RT: 14.15 min Scan# 1925

Delta R.T. 0.01 min

Lab File: BG018348.D

Acq: 10 Aug 2015 3:21

Instrument :

BNA_G

ClientSampleId :

C01J7

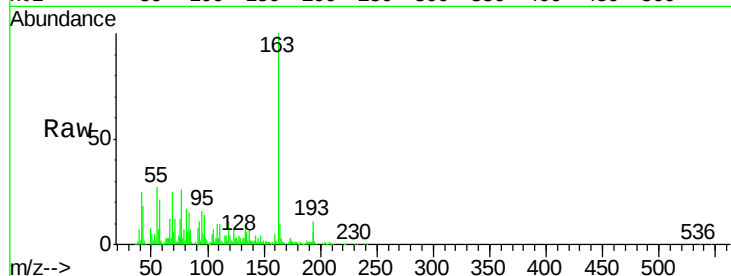
Tgt Ion:163 Resp: 192105

Ion Ratio Lower Upper

163 100

194 5.6 3.2 4.8#

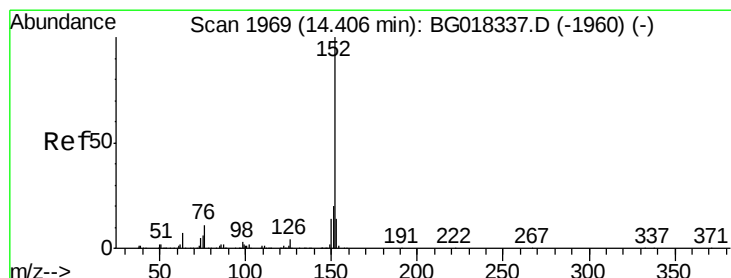
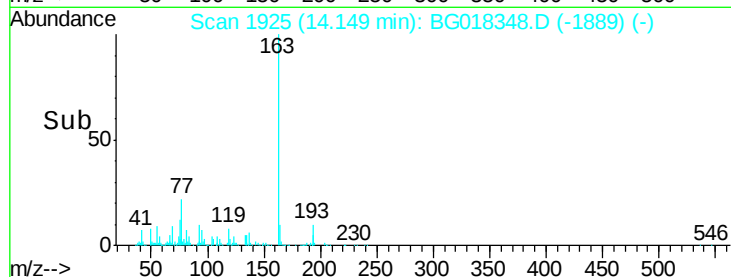
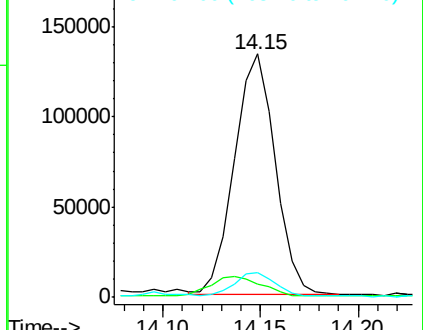
164 10.0 8.0 12.0



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



#48

Acenaphthylene

Concen: 2.93 ng/ul

RT: 14.42 min Scan# 1972

Delta R.T. 0.02 min

Lab File: BG018348.D

Acq: 10 Aug 2015 3:21

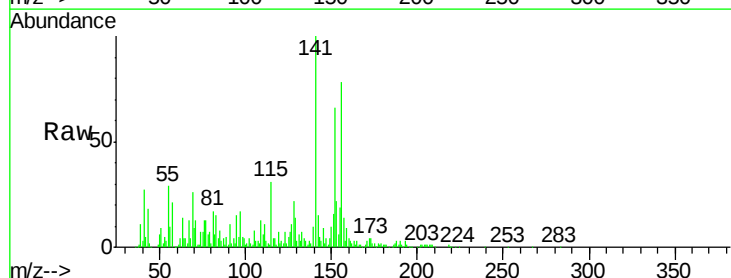
Tgt Ion:152 Resp: 119915

Ion Ratio Lower Upper

152 100

151 24.8 16.0 24.0#

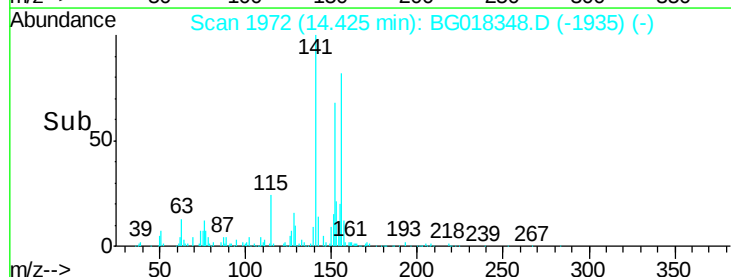
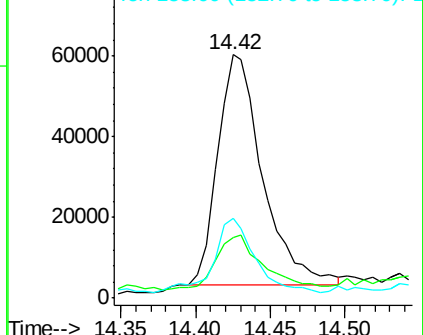
153 32.9 10.6 16.0#

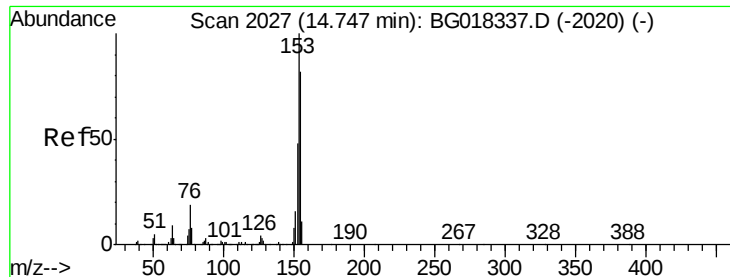


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#50

Acenaphthene

Concen: 2.46 ng/ul

RT: 14.77 min Scan# 2030

Delta R.T. 0.02 min

Lab File: BG018348.D

Acq: 10 Aug 2015 3:21

Instrument :

BNA_G

ClientSampleId :

C01J7

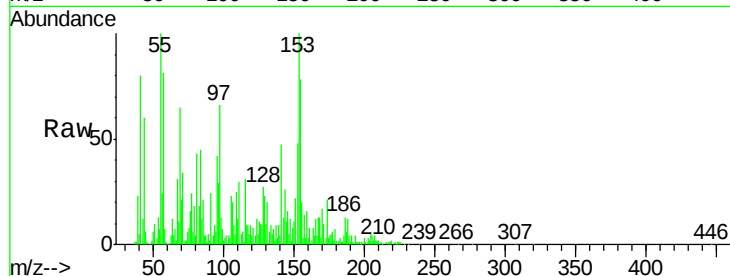
Tgt Ion:153 Resp: 70665

Ion Ratio Lower Upper

153 100

152 48.3 36.7 55.1

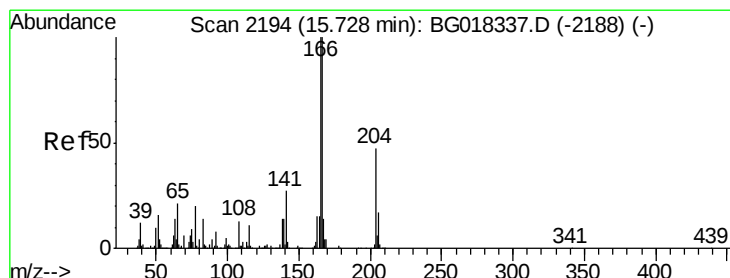
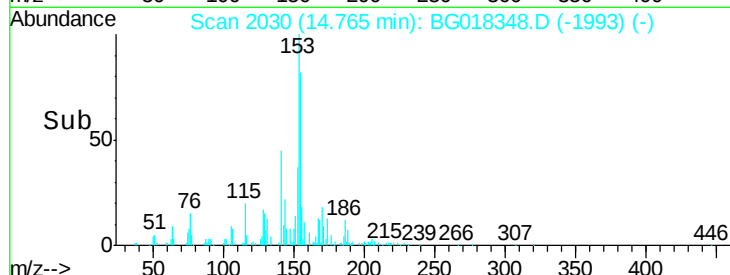
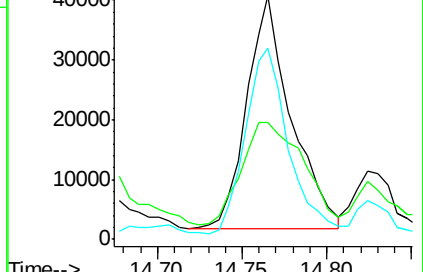
154 78.4 69.0 103.4



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#59

Fluorene

Concen: 3.15 ng/ul

RT: 15.75 min Scan# 2197

Delta R.T. 0.02 min

Lab File: BG018348.D

Acq: 10 Aug 2015 3:21

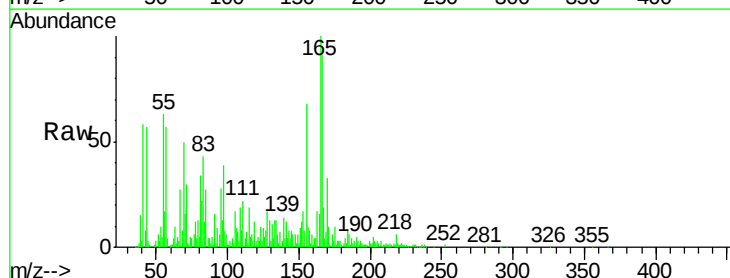
Tgt Ion:166 Resp: 101803

Ion Ratio Lower Upper

166 100

165 109.6 79.7 119.5

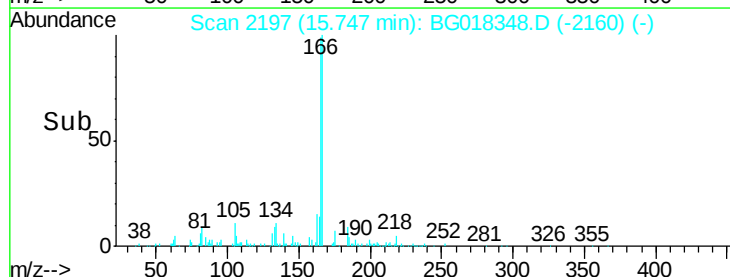
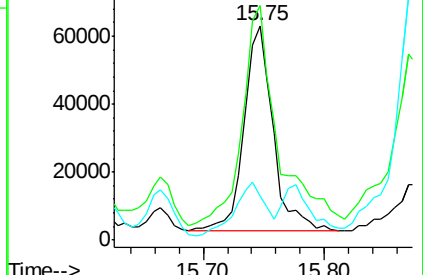
167 20.4 10.8 16.2#

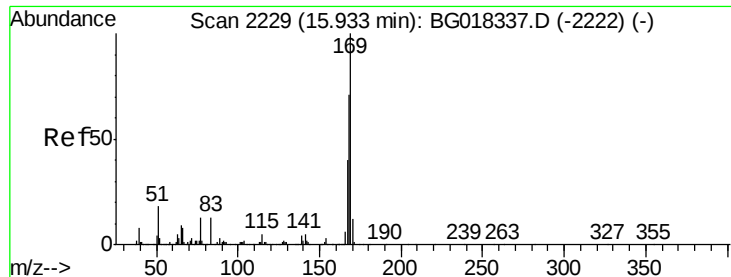


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#65

N-Nitrosodiphenylamine

Concen: 4.94 ng/ul

RT: 15.96 min Scan# 2233

Delta R.T. 0.02 min

Lab File: BG018348.D

Acq: 10 Aug 2015 3:21

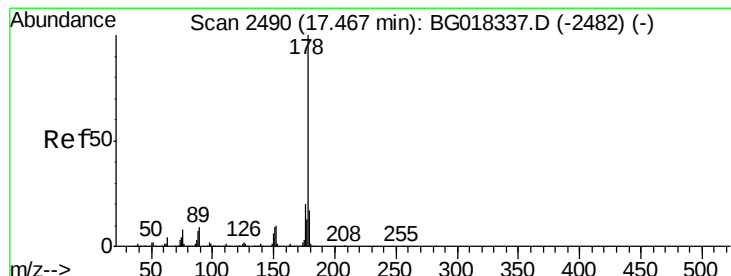
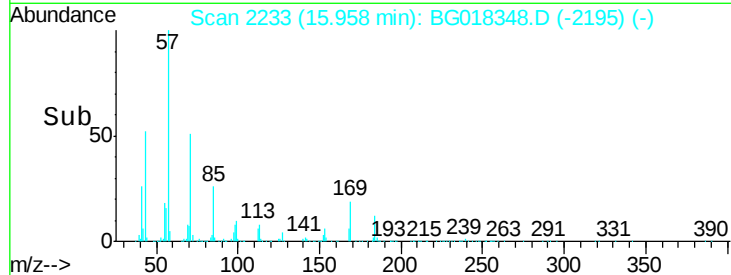
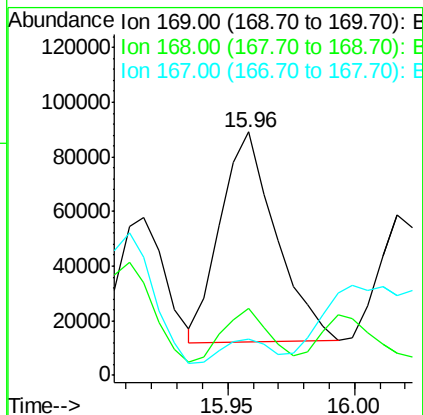
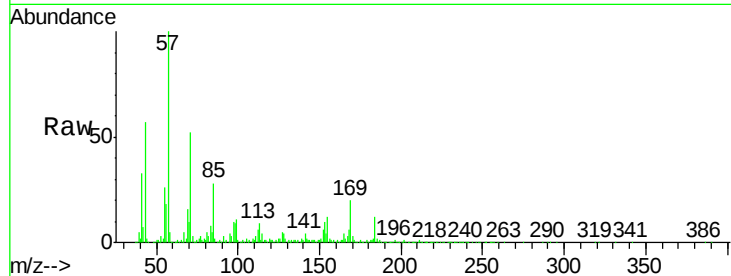
Instrument :

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C01J7

Tgt Ion:	169	Resp:	117547
Ion	Ratio	Lower	Upper
169	100		
168	27.7	60.5	90.7#
167	15.1	31.7	47.5#



#70

Phenanthrene

Concen: 23.97 ng/ul

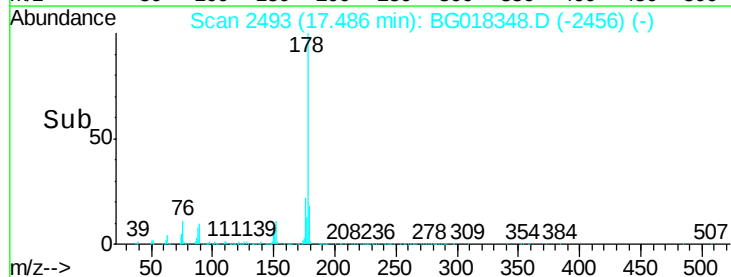
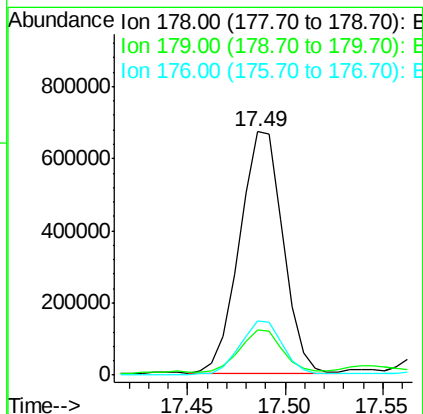
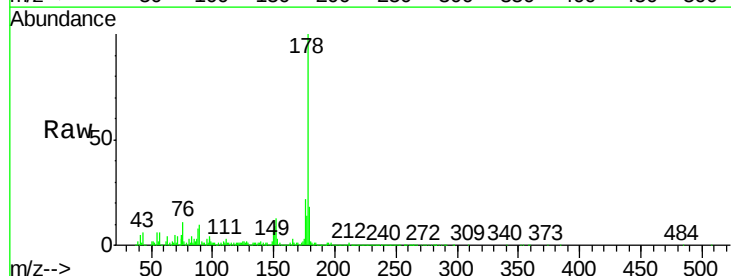
RT: 17.49 min Scan# 2493

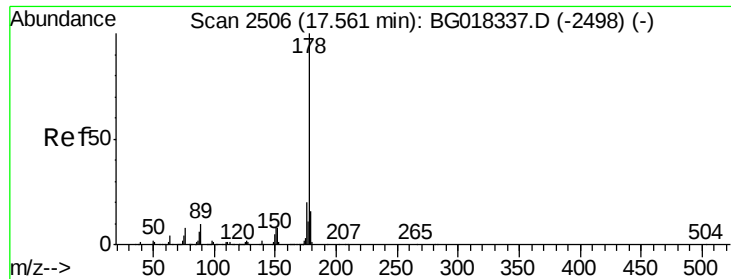
Delta R.T. 0.02 min

Lab File: BG018348.D

Acq: 10 Aug 2015 3:21

Tgt Ion:	178	Resp:	1029422
Ion	Ratio	Lower	Upper
178	100		
179	18.3	12.4	18.6
176	22.2	15.9	23.9





#72

Anthracene

Concen: 23.60 ng/ul

RT: 17.49 min Scan# 2493

Delta R.T. -0.08 min

Lab File: BG018348.D

Acq: 10 Aug 2015 3:21

Instrument :

BNA_G

ClientSampled :

C01J7

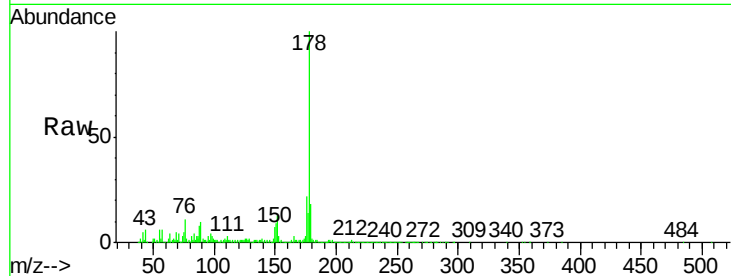
Tgt Ion:178 Resp: 1032639

Ion Ratio Lower Upper

178 100

179 18.3 12.8 19.2

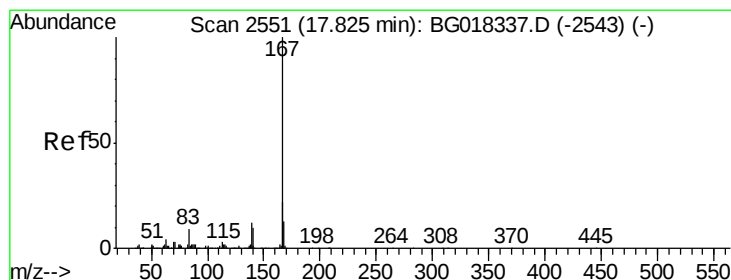
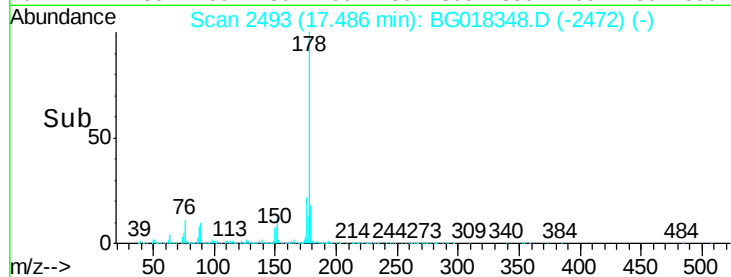
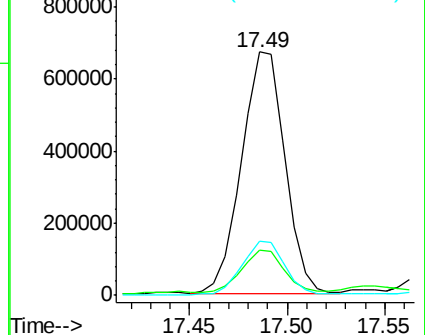
176 22.2 15.9 23.9



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: 2.12 ng/ul

RT: 17.84 min Scan# 2553

Delta R.T. 0.01 min

Lab File: BG018348.D

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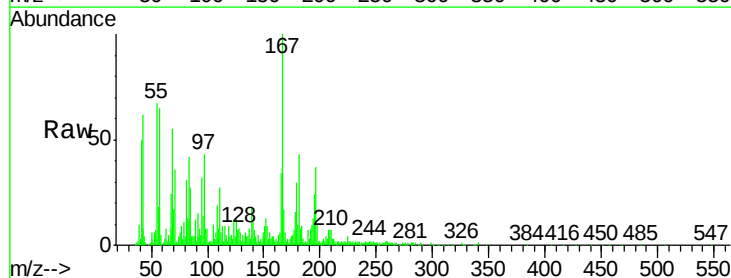
Tgt Ion:167 Resp: 81301

Ion Ratio Lower Upper

167 100

166 36.7 19.3 28.9#

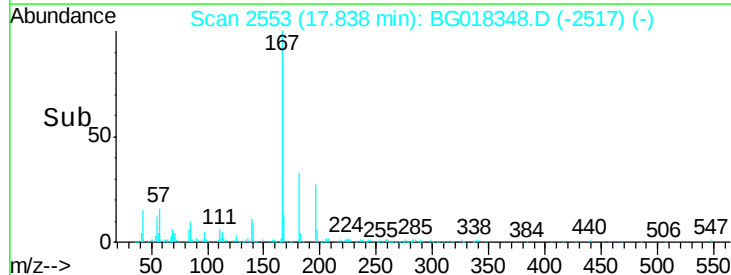
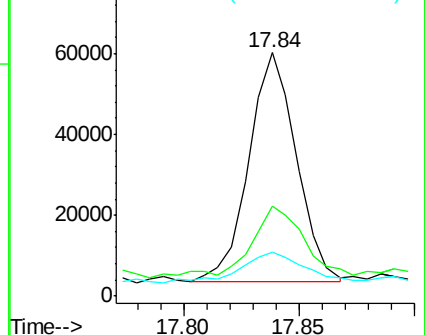
139 18.1 10.7 16.1#

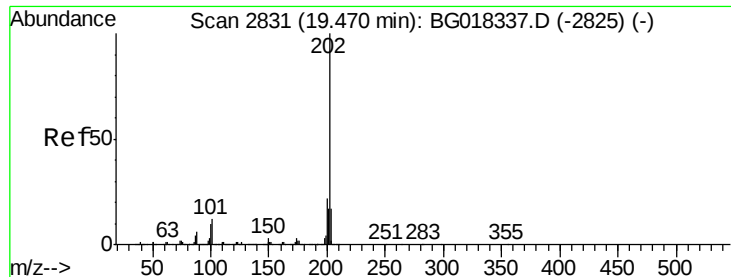


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

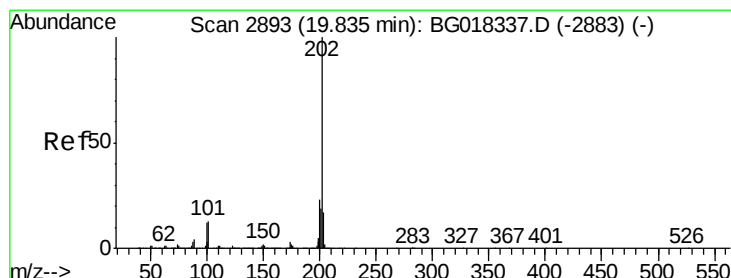
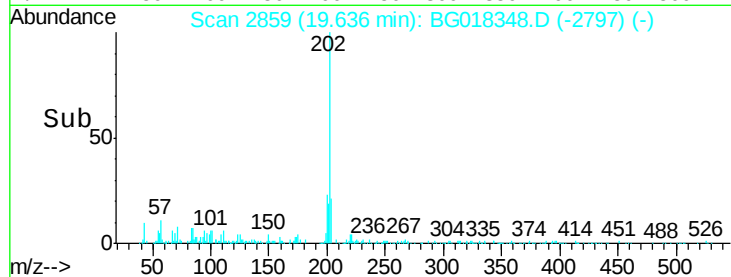
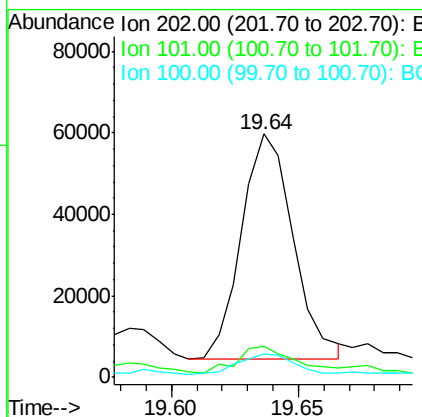
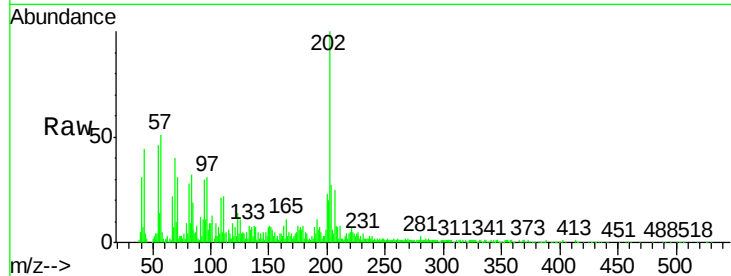




#77
 Fluoranthene
 Concen: 1.71 ng/ul
 RT: 19.64 min Scan# 2859
 Delta R.T. 0.17 min
 Lab File: BG018348.D
 Acq: 10 Aug 2015 3:21

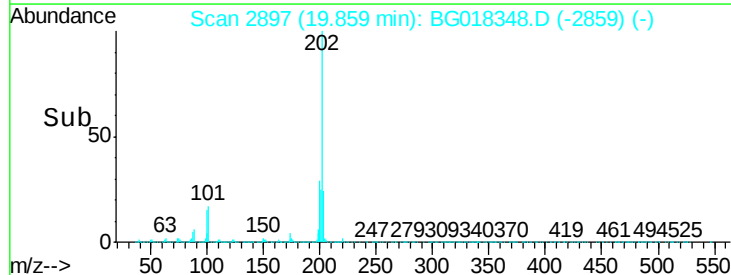
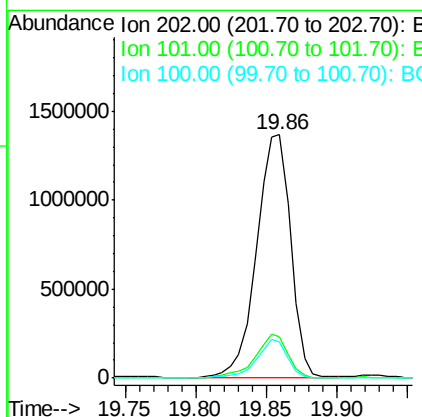
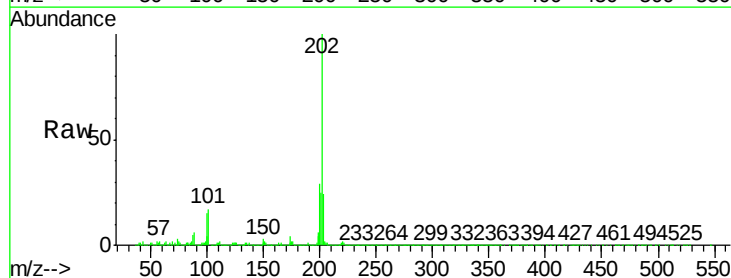
Instrument :
 BNA_G
 ClientSampleId :
 C01J7

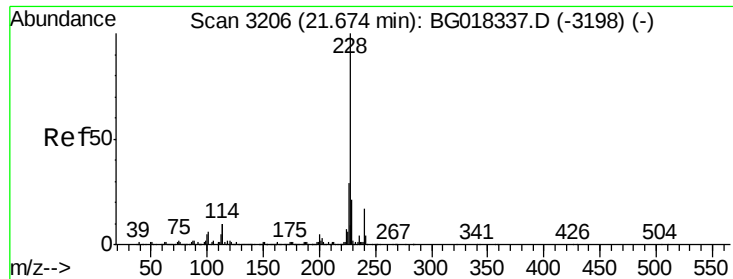
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.6	8.9	13.3
100	9.4	8.5	12.7



#80
 Pyrene
 Concen: 51.09 ng/ul
 RT: 19.86 min Scan# 2897
 Delta R.T. 0.02 min
 Lab File: BG018348.D
 Acq: 10 Aug 2015 3:21

Tgt Ion	Ratio	Lower	Upper
202	100		
101	17.0	11.3	16.9#
100	14.7	9.6	14.4#

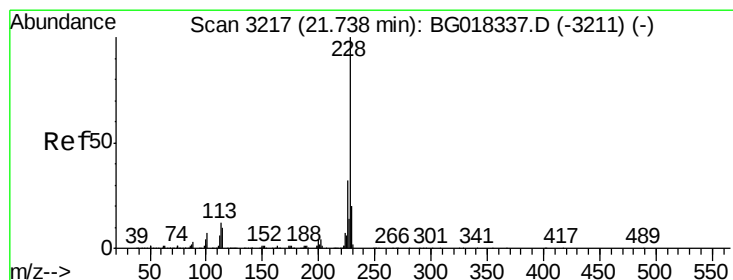
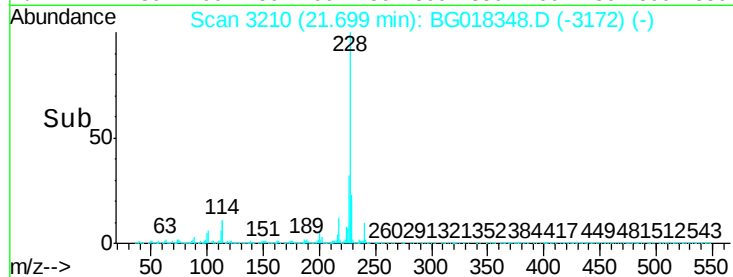
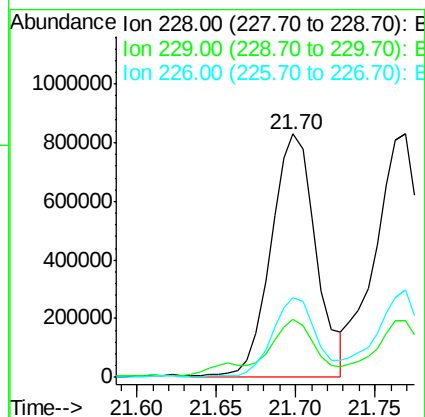
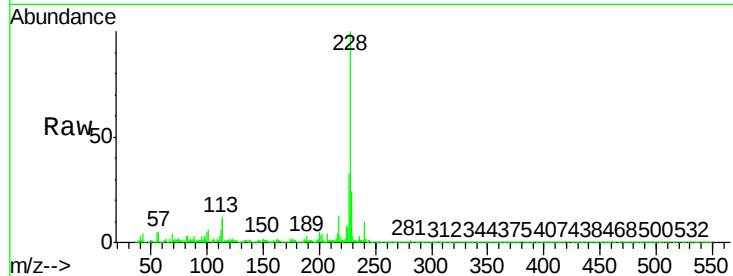




#83
Benzo(a)anthracene
Concen: 39.18 ng/ul
RT: 21.70 min Scan# 3210
Delta R.T. 0.02 min
Lab File: BG018348.D
Acq: 10 Aug 2015 3:21

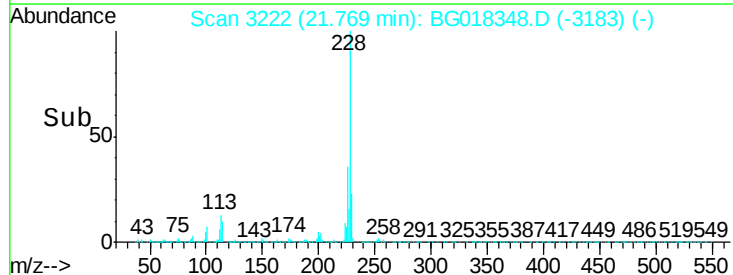
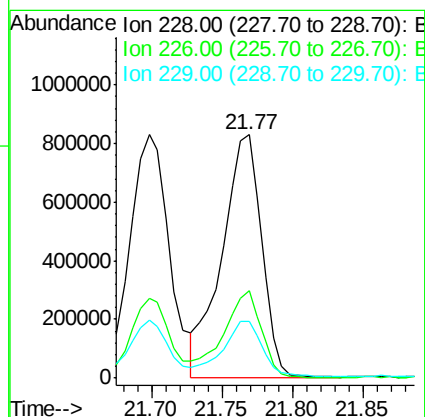
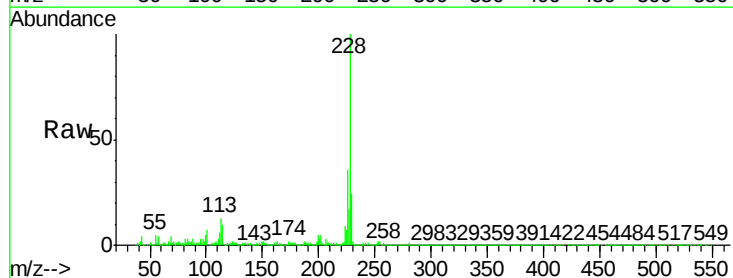
Instrument :
BNA_G
ClientSampleId :
C01J7

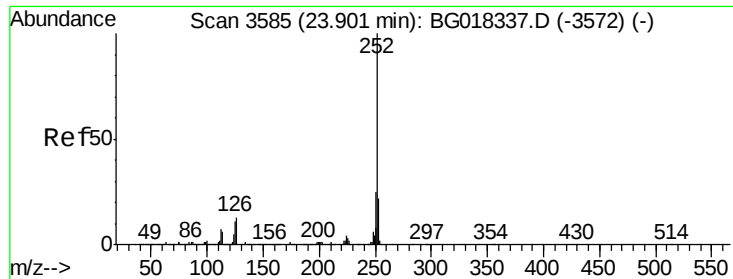
Tgt Ion:228 Resp: 1631729
Ion Ratio Lower Upper
228 100
229 23.9 15.4 23.2#
226 32.5 22.3 33.5



#85
Chrysene
Concen: 41.43 ng/ul
RT: 21.77 min Scan# 3222
Delta R.T. 0.03 min
Lab File: BG018348.D
Acq: 10 Aug 2015 3:21

Tgt Ion:228 Resp: 1615144
Ion Ratio Lower Upper
228 100
226 35.8 24.6 37.0
229 23.6 16.0 24.0





#88

Benzo(b)fluoranthene

Concen: 54.18 ng/ul

RT: 23.95 min Scan# 3594

Delta R.T. 0.05 min

Lab File: BG018348.D

Acq: 10 Aug 2015 3:21

Instrument :

BNA_G

ClientSampleId :

C01J7

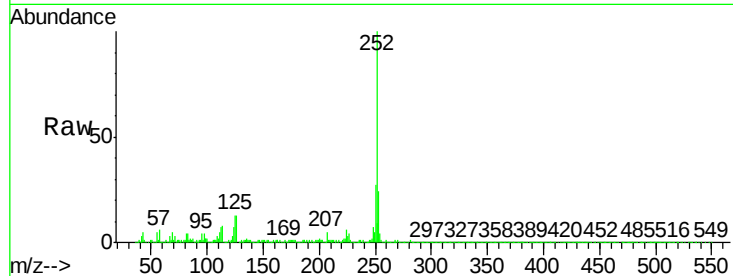
Tgt Ion:252 Resp: 2320007

Ion Ratio Lower Upper

252 100

253 24.4 18.0 27.0

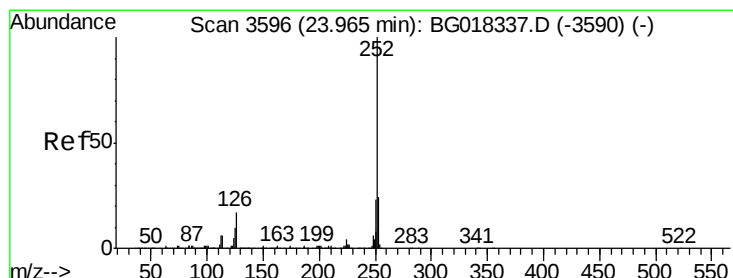
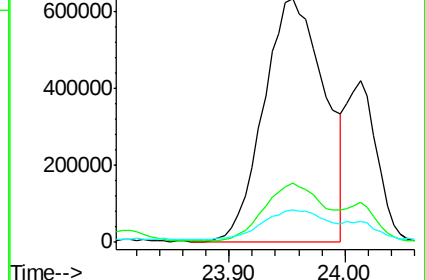
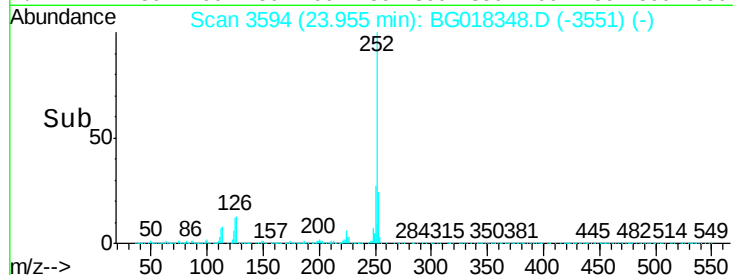
125 13.4 8.6 12.8#



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



#89

Benzo(k)fluoranthene

Concen: 55.96 ng/ul

RT: 23.95 min Scan# 3594

Delta R.T. -0.01 min

Lab File: BG018348.D

Acq: 10 Aug 2015 3:21

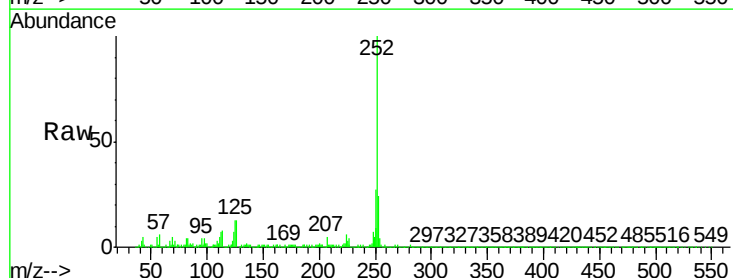
Tgt Ion:252 Resp: 2320007

Ion Ratio Lower Upper

252 100

253 24.4 17.0 25.4

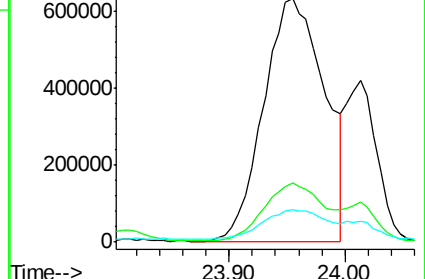
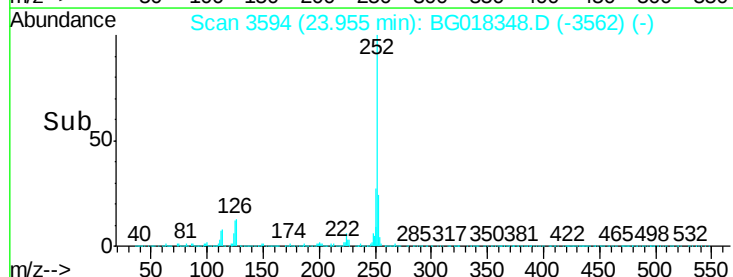
125 13.4 7.7 11.5#

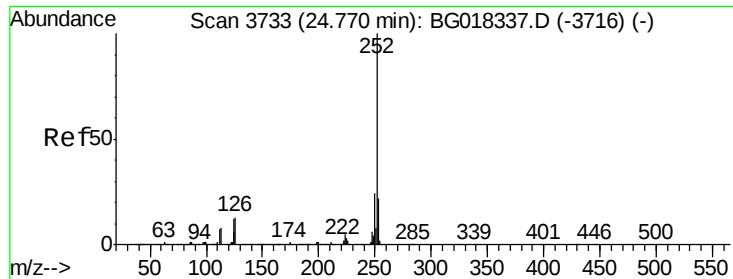


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a)pyrene

Concen: 41.33 ng/ul

RT: 24.84 min Scan# 3744

Delta R.T. 0.07 min

Lab File: BG018348.D

Acq: 10 Aug 2015 3:21

Instrument :

BNA_G

ClientSampleId :

C01J7

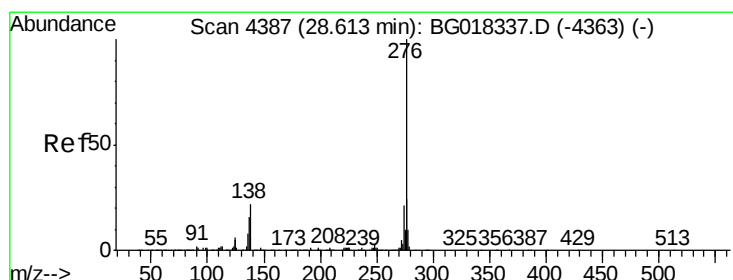
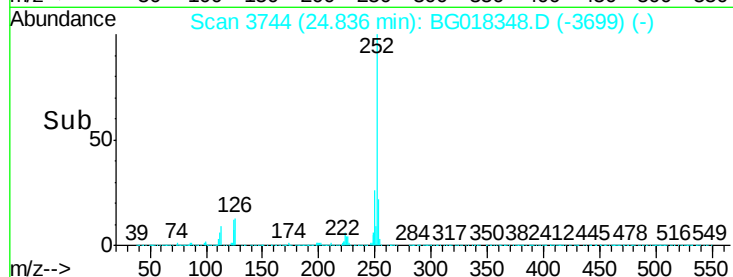
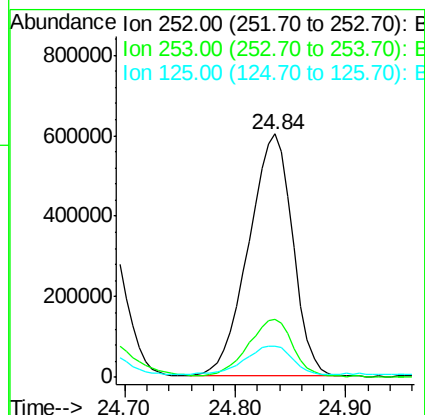
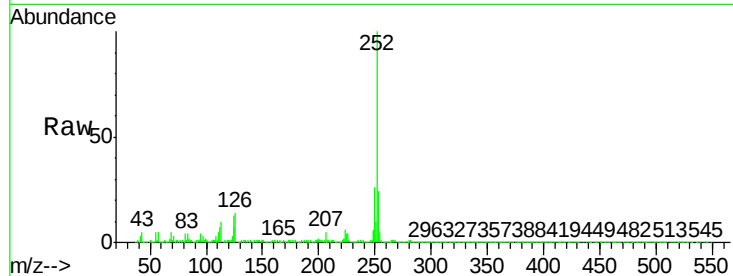
Tgt Ion:252 Resp: 1682764

Ion Ratio Lower Upper

252 100

253 23.6 18.6 27.8

125 12.9 9.8 14.6



#92

Indeno(1,2,3-cd)pyrene

Concen: 23.73 ng/ul

RT: 28.71 min Scan# 4404

Delta R.T. 0.10 min

Lab File: BG018348.D

Acq: 10 Aug 2015 3:21

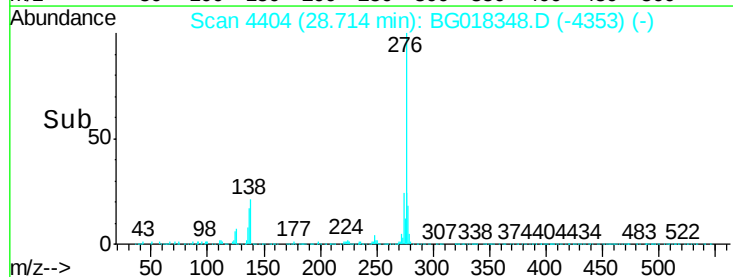
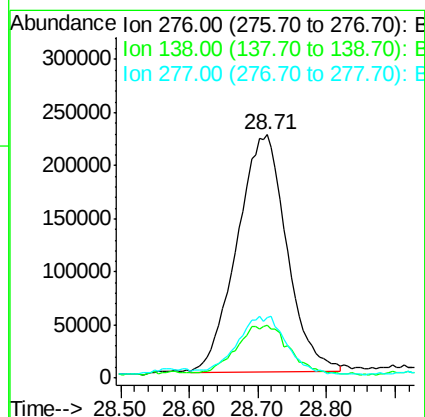
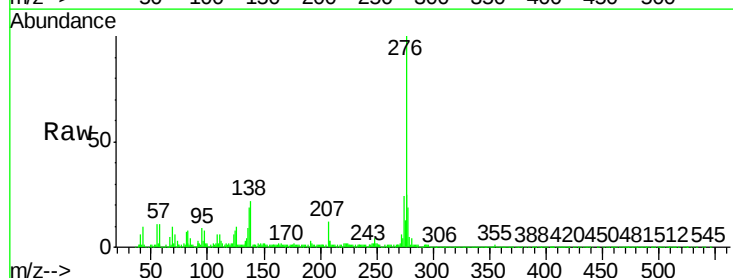
Tgt Ion:276 Resp: 1120479

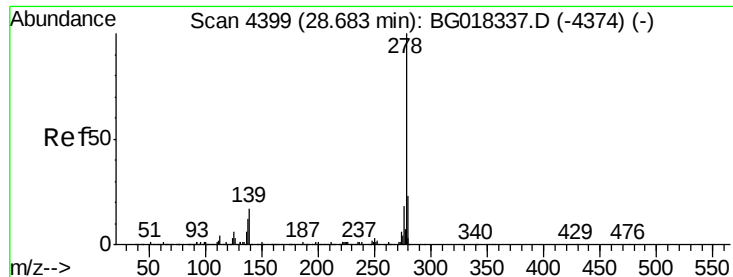
Ion Ratio Lower Upper

276 100

138 21.5 15.9 23.9

277 24.8 19.0 28.6





#93

Dibenzo(a,h)anthracene

Concen: 3.73 ng/ul

RT: 28.74 min Scan# 4408

Delta R.T. 0.05 min

Lab File: BG018348.D

Acq: 10 Aug 2015 3:21

Instrument :

BNA_G

ClientSampleId :

C01J7

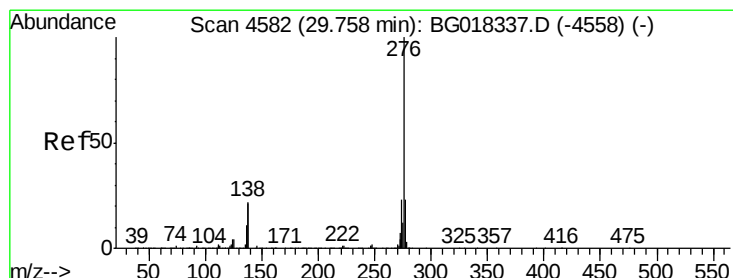
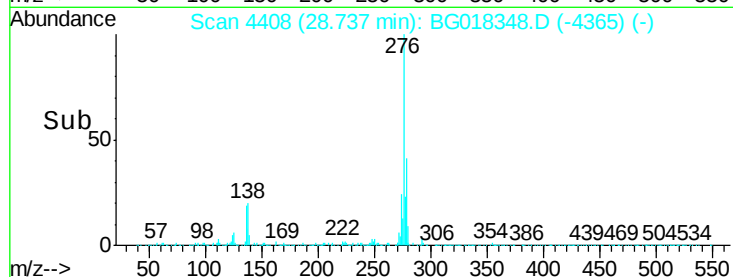
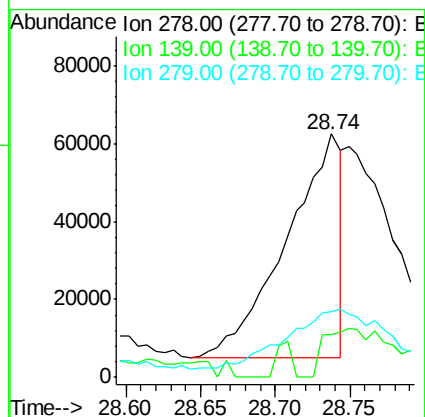
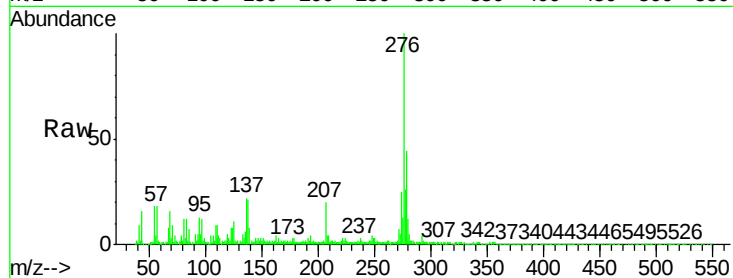
Tgt Ion:278 Resp: 145983

Ion Ratio Lower Upper

278 100

139 17.6 12.2 18.2

279 26.9 18.3 27.5



#94

Benzo(g,h,i)perylene

Concen: 21.30 ng/ul

RT: 29.87 min Scan# 4601

Delta R.T. 0.11 min

Lab File: BG018348.D

Acq: 10 Aug 2015 3:21

Tgt Ion:276 Resp: 841458

Ion Ratio Lower Upper

276 100

138 23.1 17.4 26.0

277 23.4 18.4 27.6

