

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080515\
 Data File : BG018289.D
 Acq On : 6 Aug 2015 2:06
 Operator : UM/TP
 Sample : G3109-15RE
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C01W3RE

Quant Time: Aug 06 05:05:10 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080515.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Aug 06 03:42:27 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.44	152	34303	20.00	ng/ul	0.00
18) Naphthalene-d8	10.22	136	165483	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.12	164	100026	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.89	188	147732	20.00	ng/ul	0.01
78) Chrysene-d12	21.11	240	138669	20.00	ng/ul	0.03
86) Perylene-d12	23.28	264	130799	20.00	ng/ul	0.04

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.90	96	1516	3.81	ng/uL	0.00
5) Phenol-d5	6.65	99	68223	25.29	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	6.78	67	38032	29.17	ng/ul	0.00
9) 2-Chlorophenol-d4	6.98	132	61528	27.39	ng/ul	0.00
13) 4-Methylphenol-d8	8.18	113	37668	16.54	ng/ul	0.00
19) Nitrobenzene-d5	8.60	128	32639	25.47	ng/ul	0.00
22) 2-Nitrophenol-d4	9.31	143	39784	26.84	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.86	165	59851	21.97	ng/ul	0.00
29) 4-Chloroaniline-d4	10.38	131	6124	1.88	ng/ul	0.01
44) Dimethylphthalate-d6	13.54	166	197813	25.57	ng/ul	0.00
47) Acenaphthylene-d8	13.81	160	209997	23.94	ng/ul	0.00
52) 4-Nitrophenol-d4	14.39	143	17506	13.72	ng/ul	0.02
58) Fluorene-d10	15.12	176	146928	21.14	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.28	200	11070	10.82	ng/ul	0.02
71) Anthracene-d10	16.99	188	155414	23.92	ng/ul	0.01
79) Pyrene-d10	19.31	212	112318	14.47	ng/ul	0.03
90) Benzo(a)pyrene-d12	23.28	264	127885	18.79	ng/ul	0.18

Target Compounds

						Qvalue
14) Acetophenone	8.27	105	6314	1.72	ng/ul#	85
16) 4-Methylphenol	8.24	108	4097	1.67	ng/ul	92
28) Naphthalene	10.27	128	103190	13.27	ng/ul	96
34) 2-Methylnaphthalene	11.90	142	53068	8.50	ng/ul	86
35) 1-Methylnaphthalene	12.13	142	39198	6.50	ng/ul#	86
41) 1,1'-Biphenyl	12.94	154	26067	3.78	ng/ul#	93
45) Dimethylphthalate	13.58	163	78258	10.14	ng/ul	99
48) Acenaphthylene	13.85	152	28192	3.12	ng/ul#	94
50) Acenaphthene	14.19	153	192165	32.87	ng/ul	99
54) Dibenzofuran	14.52	168	155772	18.10	ng/ul	94
59) Fluorene	15.18	166	275257	36.43	ng/ul	98
65) N-Nitrosodiphenylamine	15.40	169	9204	2.37	ng/ul#	68
70) Phenanthrene	17.02	178	548568	73.58	ng/ul	96
72) Anthracene	17.02	178	549415	73.84	ng/ul	98
75) Carbazole	17.30	167	78084	12.44	ng/ul	95
76) Di-n-butylphthalate	17.87	149	69180	7.86	ng/ul#	93
77) Fluoranthene	18.98	202	1792654	216.78	ng/ul	99
80) Pyrene	19.35	202	1685832	174.84	ng/ul	99
81) Butylbenzylphthalate	20.24	149	7442	1.99	ng/ul#	53
83) Benzo(a)anthracene	21.09	228	865209	118.21	ng/ul	98
84) Bis(2-ethylhexyl)phthalate	21.10	149	9817	2.18	ng/ul	94
85) Chrysene	21.15	228	747262	113.63	ng/ul	95
87) Di-n-octyl phthalate	21.93	149	8838	1.03	ng/ul	100

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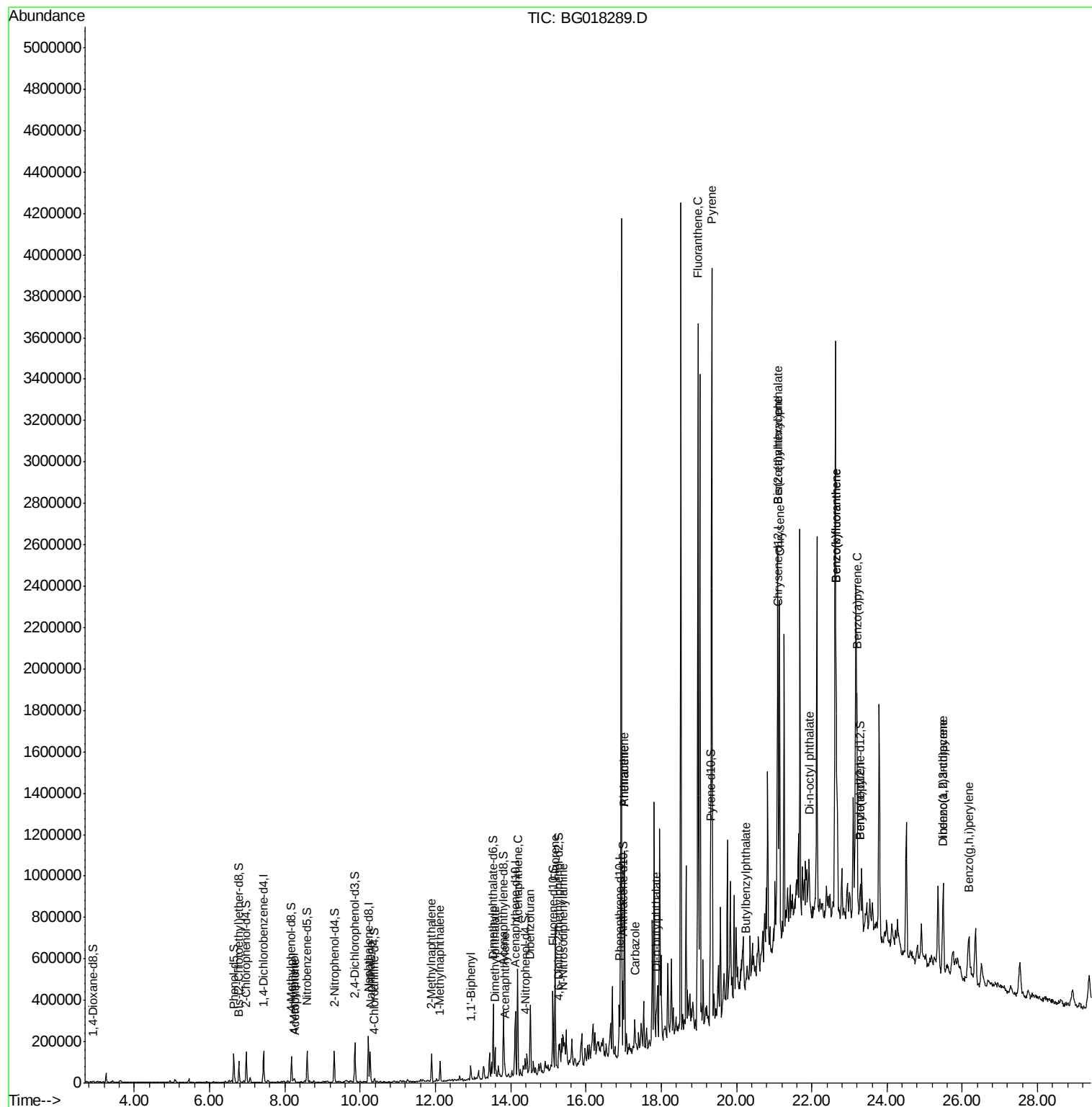
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(b)fluoranthene	22.64	252	1015627	126.61	ng/ul#	95
89) Benzo(k)fluoranthene	22.64	252	1015627	132.03	ng/ul#	92
91) Benzo(a)pyrene	23.20	252	700252	99.98	ng/ul#	99
92) Indeno(1,2,3-cd)pyrene	25.49	276	343098	39.60	ng/ul	99
93) Dibenzo(a,h)anthracene	25.48	278	106384	13.99	ng/ul#	85
94) Benzo(g,h,i)perylene	26.16	276	279368	39.73	ng/ul	97

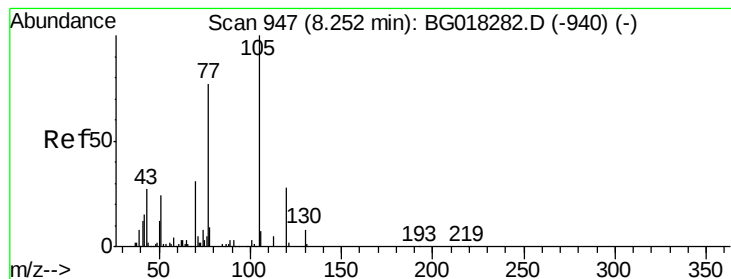
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#14

Acetophenone

Concen: 1.72 ng/ul

RT: 8.27 min Scan# 949

Delta R.T. 0.01 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Instrument :

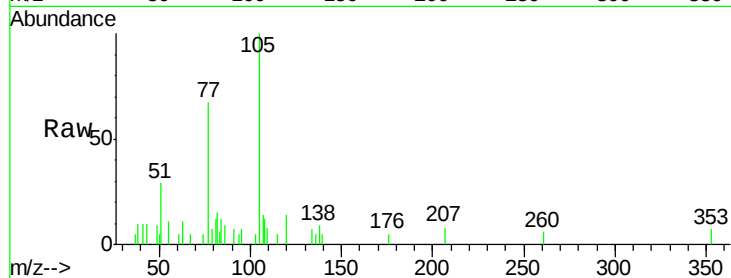
BNA_G

ClientSampleId :

C01W3RE

Tgt Ion:105 Resp: 6314

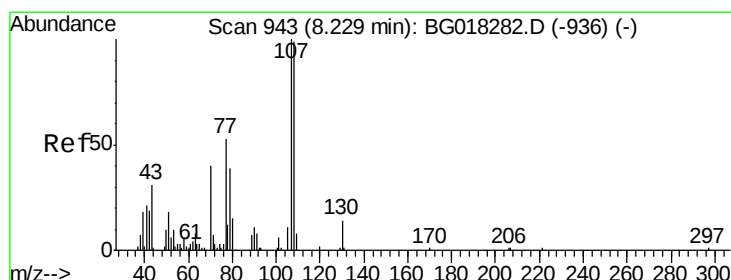
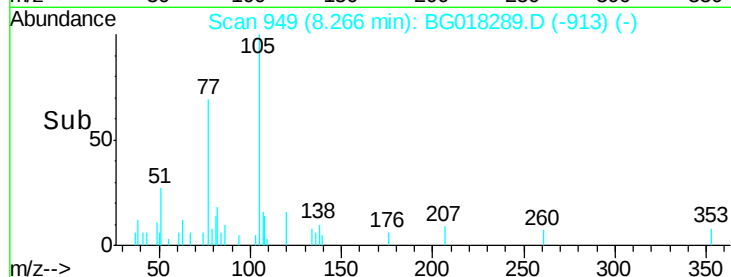
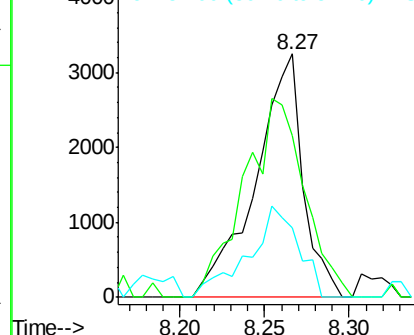
Ion	Ratio	Lower	Upper
105	100		
77	66.6	67.5	101.3#
51	28.6	23.6	35.4



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BG

Ion 51.00 (50.70 to 51.70): BG



#16

4-Methylphenol

Concen: 1.67 ng/ul

RT: 8.24 min Scan# 944

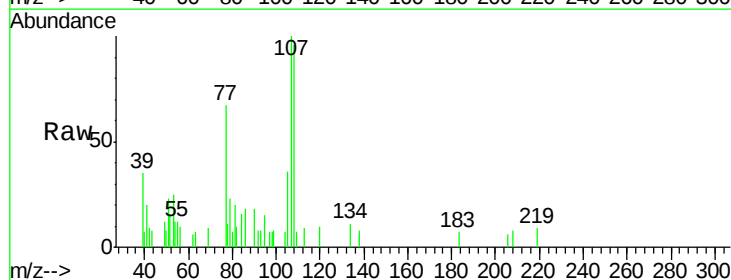
Delta R.T. 0.01 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

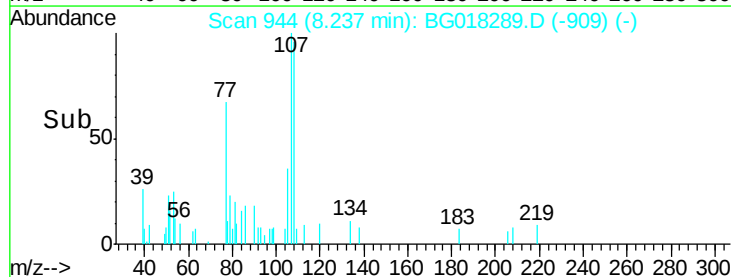
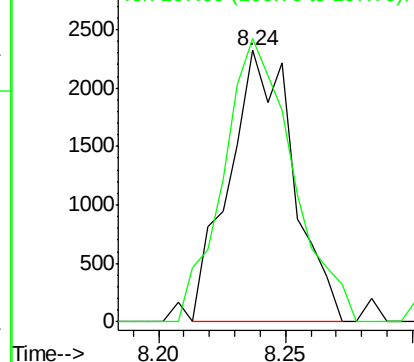
Tgt Ion:108 Resp: 4097

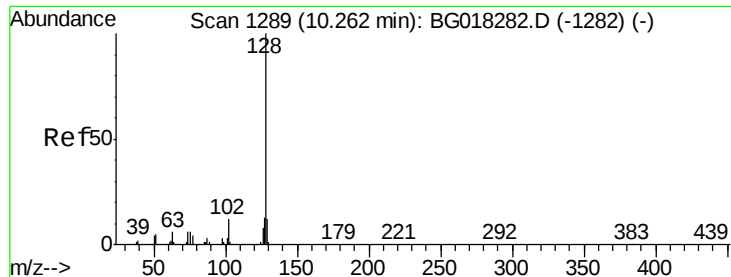
Ion	Ratio	Lower	Upper
108	100		
107	104.4	89.9	134.9



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E





#28

Naphthalene

Concen: 13.27 ng/ul

RT: 10.27 min Scan# 1290

Delta R.T. 0.01 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Instrument :

BNA_G

ClientSampleId :

C01W3RE

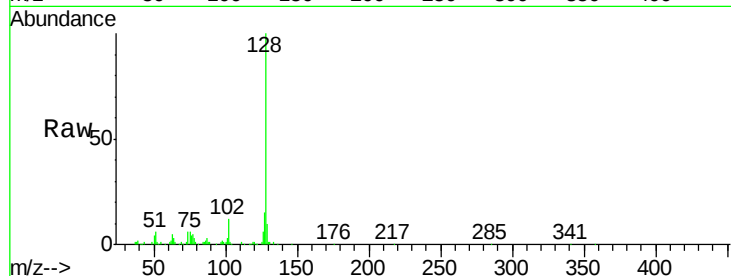
Tgt Ion:128 Resp: 103190

Ion Ratio Lower Upper

128 100

129 10.3 7.8 11.6

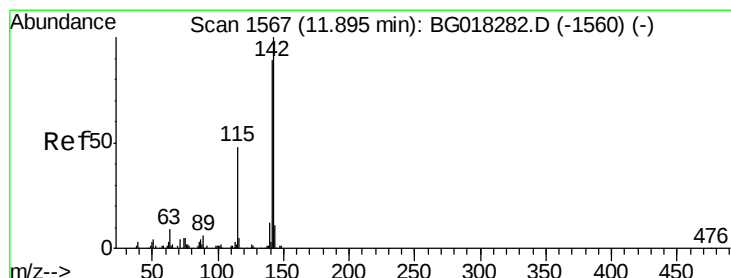
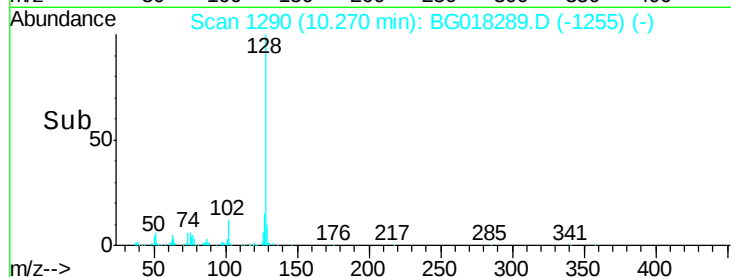
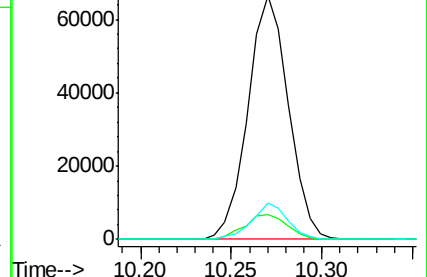
127 14.8 10.2 15.4



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: 8.50 ng/ul

RT: 11.90 min Scan# 1568

Delta R.T. 0.01 min

Lab File: BG018289.D

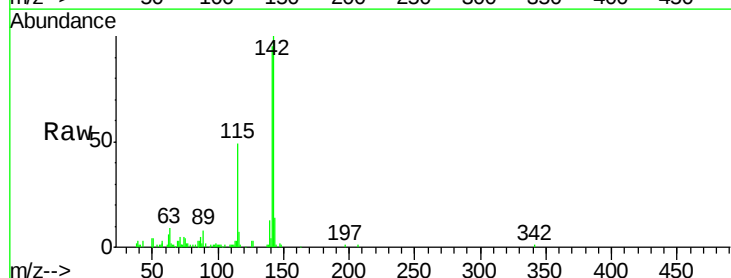
Acq: 6 Aug 2015 2:06

Tgt Ion:142 Resp: 53068

Ion Ratio Lower Upper

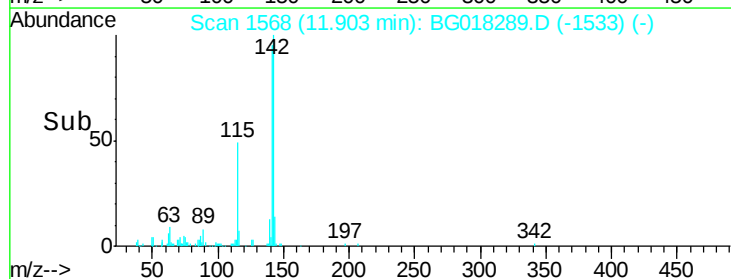
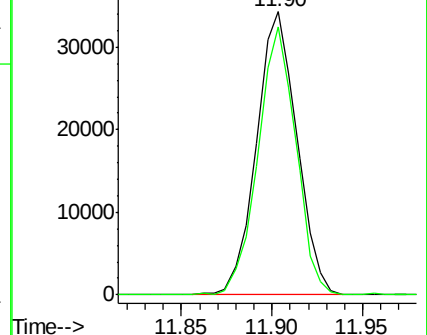
142 100

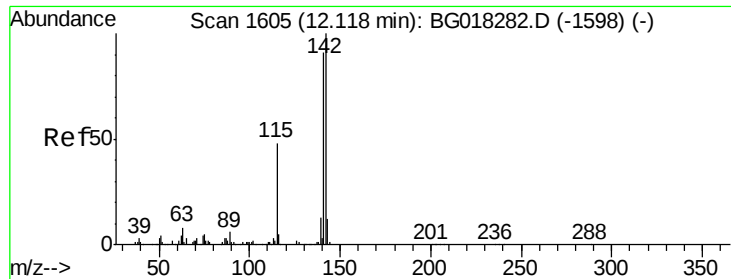
141 94.5 65.9 98.9



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

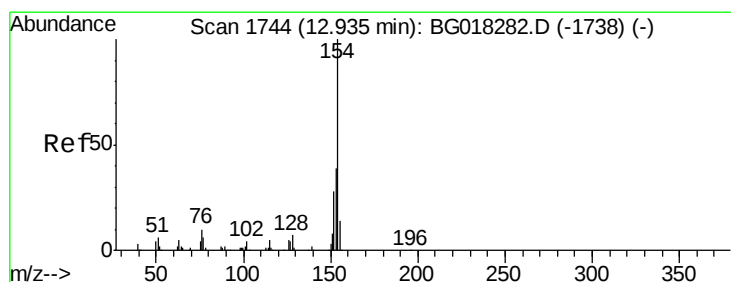
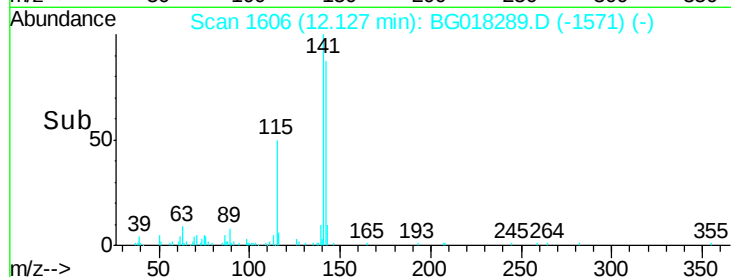
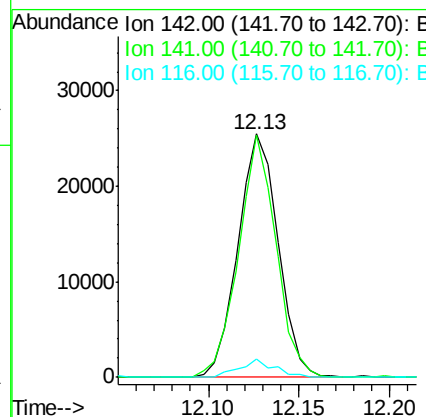
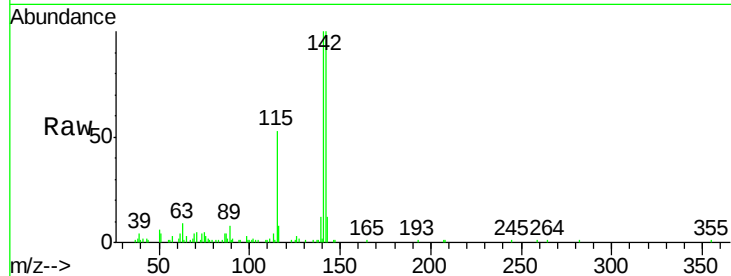




#35
 1-Methylnaphthalene
 Concen: 6.50 ng/ul
 RT: 12.13 min Scan# 1606
 Delta R.T. 0.01 min
 Lab File: BG018289.D
 Acq: 6 Aug 2015 2:06

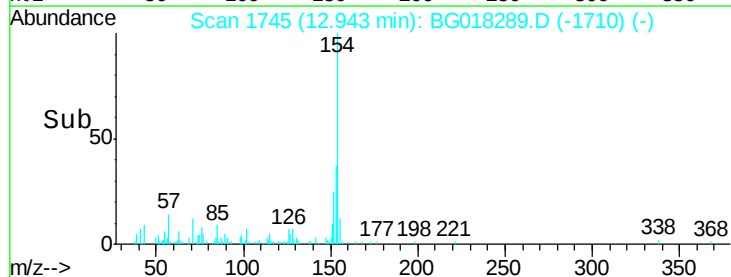
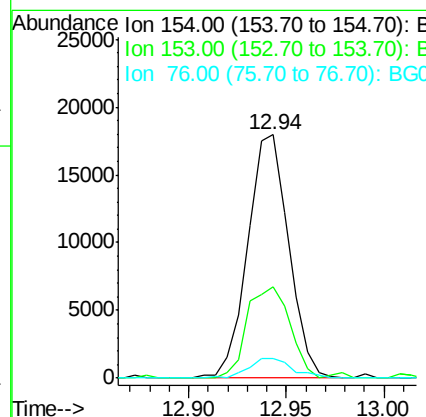
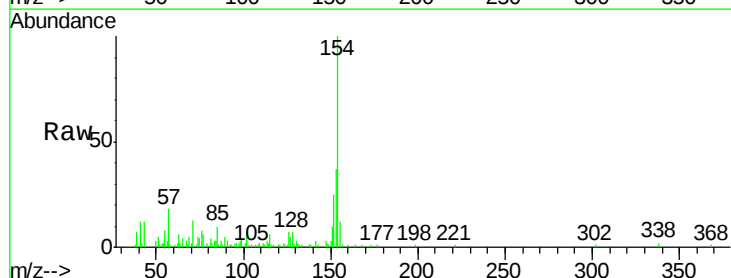
Instrument :
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 C01W3RE

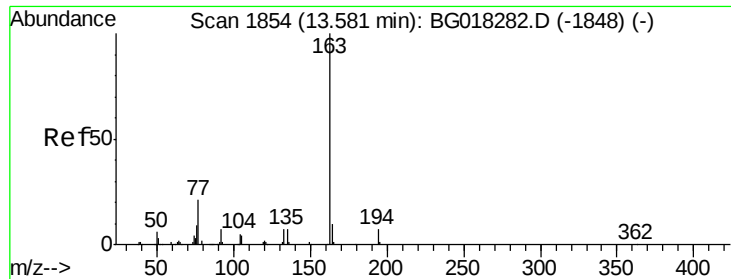
Tgt Ion	Ratio	Lower	Upper
142	100		
141	99.8	69.0	103.4
116	7.5	4.2	6.4#



#41
 1,1'-Biphenyl
 Concen: 3.78 ng/ul
 RT: 12.94 min Scan# 1745
 Delta R.T. 0.01 min
 Lab File: BG018289.D
 Acq: 6 Aug 2015 2:06

Tgt Ion	Ratio	Lower	Upper
154	100		
153	37.3	33.4	50.0
76	7.8	8.6	12.8#

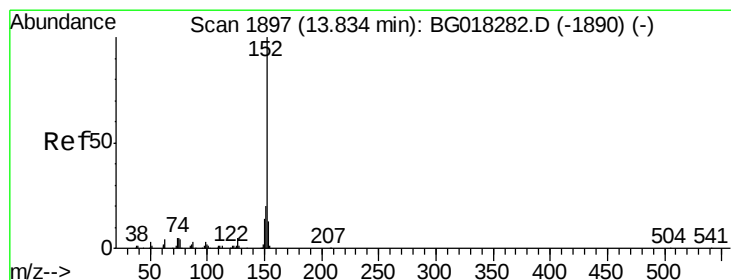
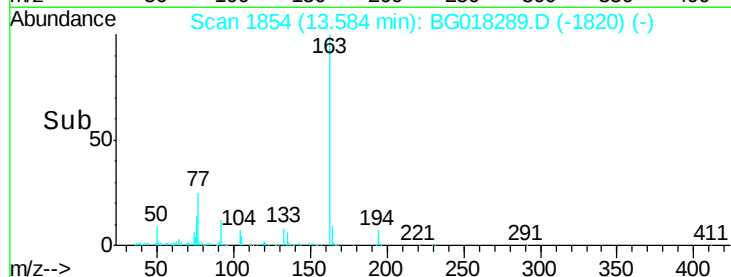
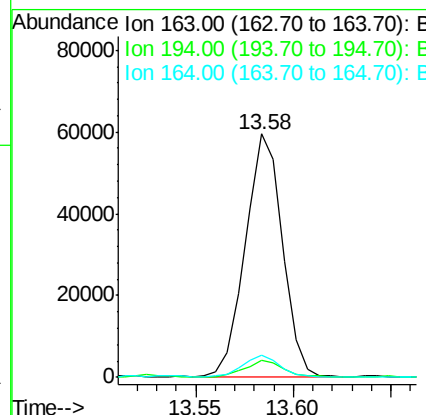
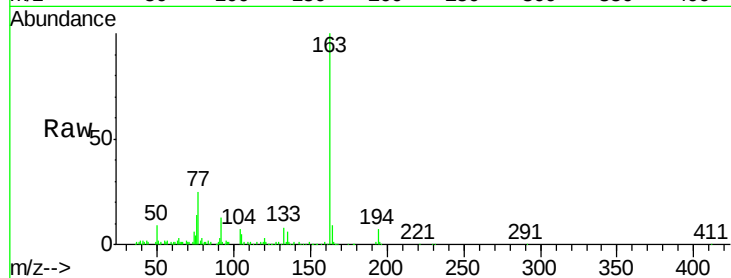




#45
Dimethylphthalate
Concen: 10.14 ng/ul
RT: 13.58 min Scan# 1854
Delta R.T. 0.00 min
Lab File: BG018289.D
Acq: 6 Aug 2015 2:06

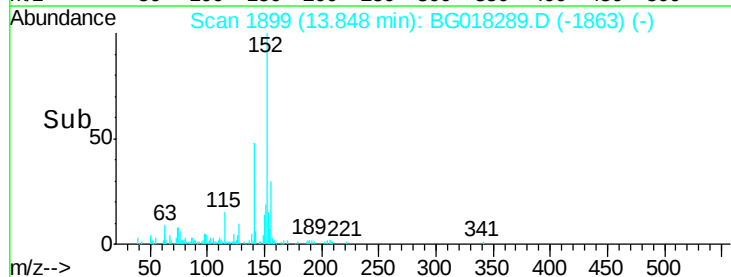
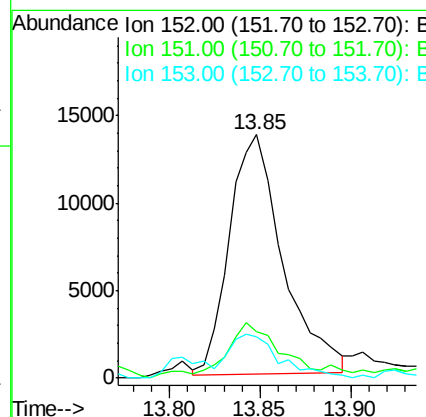
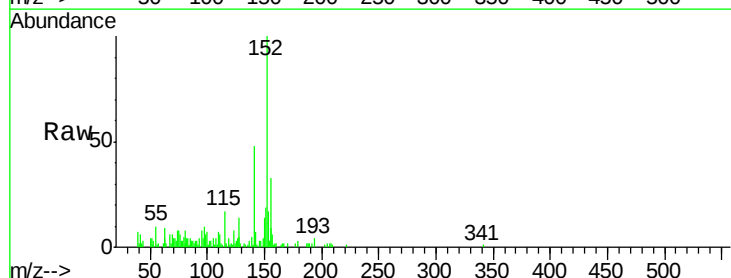
Instrument :
BNA_G
ClientSampleId :
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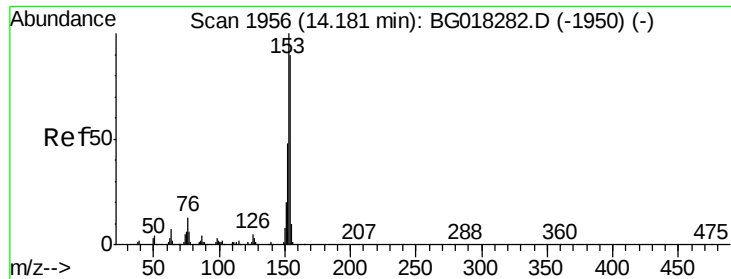
Tgt Ion	Ratio	Lower	Upper
163	100		
194	7.0	5.4	8.2
164	9.2	7.8	11.8



#48
Acenaphthylene
Concen: 3.12 ng/ul
RT: 13.85 min Scan# 1899
Delta R.T. 0.01 min
Lab File: BG018289.D
Acq: 6 Aug 2015 2:06

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.3	16.5	24.7
153	16.8	9.8	14.6





#50

Acenaphthene

Concen: 32.87 ng/ul

RT: 14.19 min Scan# 1957

Delta R.T. 0.01 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Instrument :

BNA_G

ClientSampleId :

C01W3RE

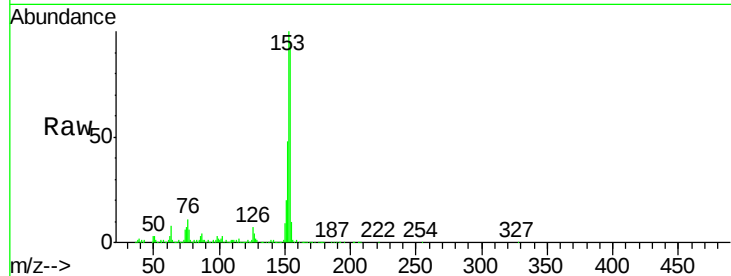
Tgt Ion:153 Resp: 192165

Ion Ratio Lower Upper

153 100

152 47.8 39.0 58.4

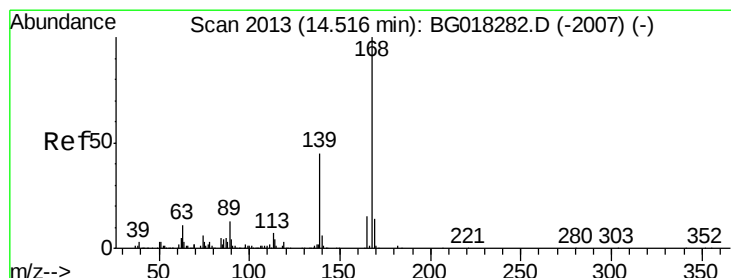
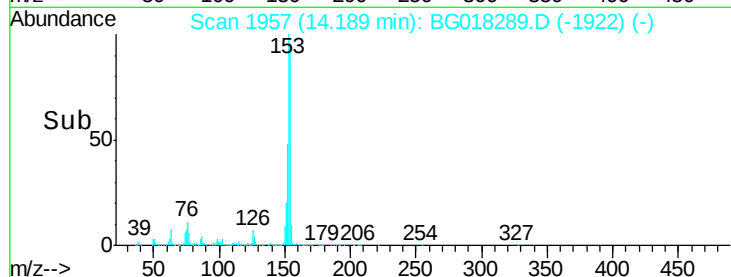
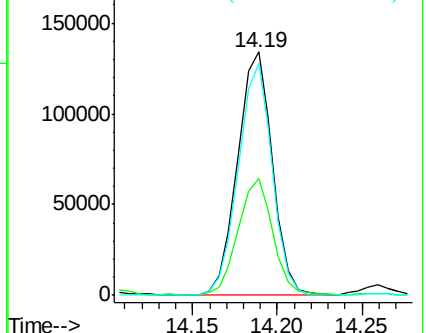
154 95.5 77.4 116.2



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



#54

Dibenzofuran

Concen: 18.10 ng/ul

RT: 14.52 min Scan# 2014

Delta R.T. 0.01 min

Lab File: BG018289.D

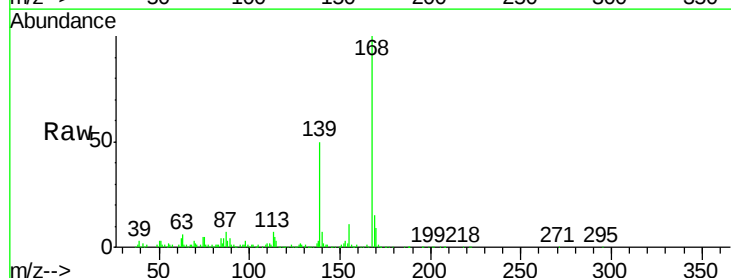
Acq: 6 Aug 2015 2:06

Tgt Ion:168 Resp: 155772

Ion Ratio Lower Upper

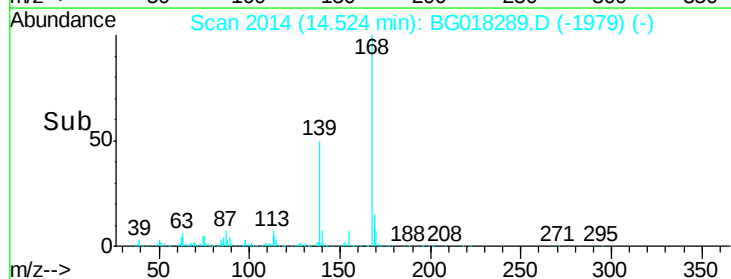
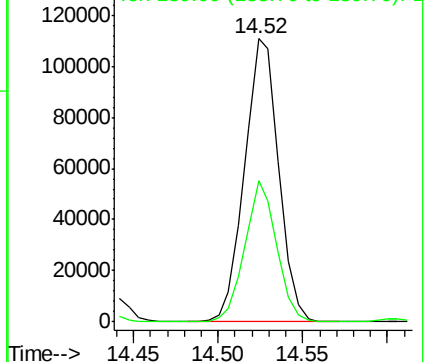
168 100

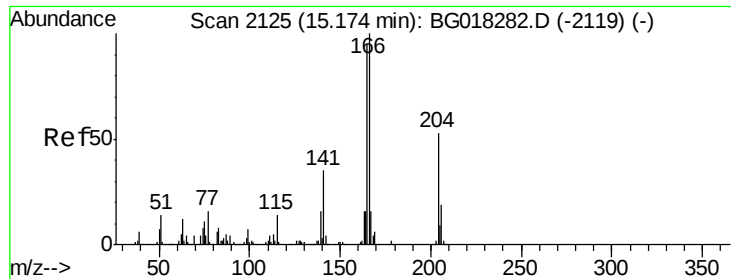
139 50.1 37.1 55.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

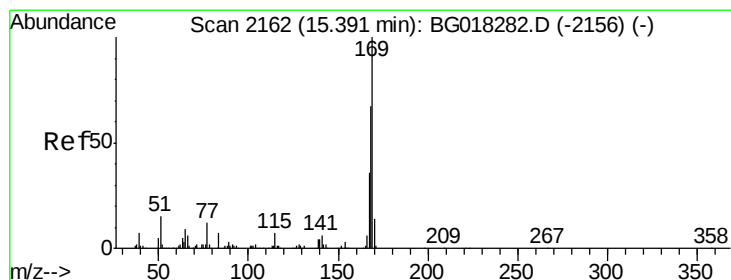
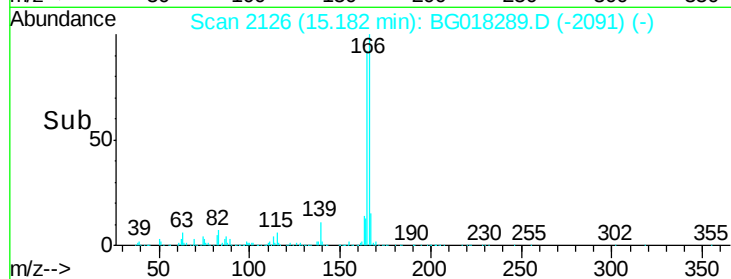
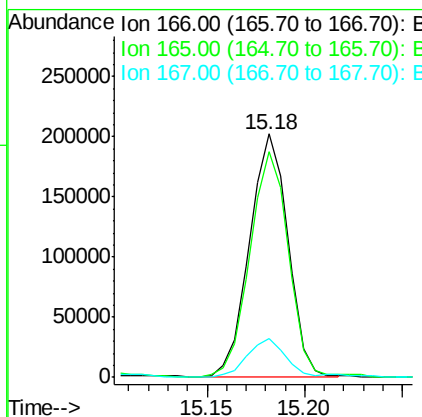
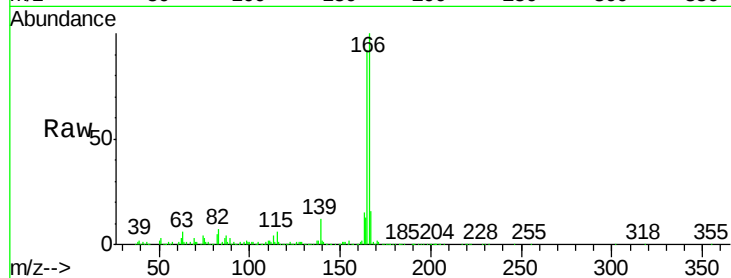




#59
Fluorene
 Concen: 36.43 ng/ul
 RT: 15.18 min Scan# 2126
 Delta R.T. 0.01 min
 Lab File: BG018289.D
 Acq: 6 Aug 2015 2:06

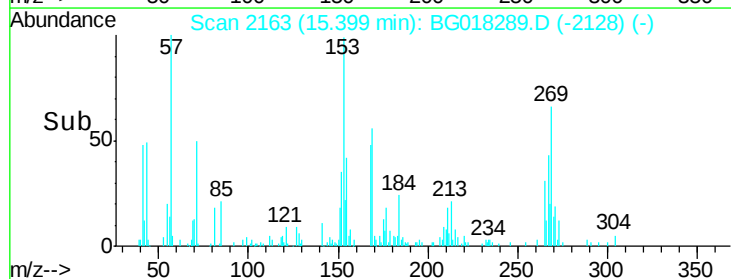
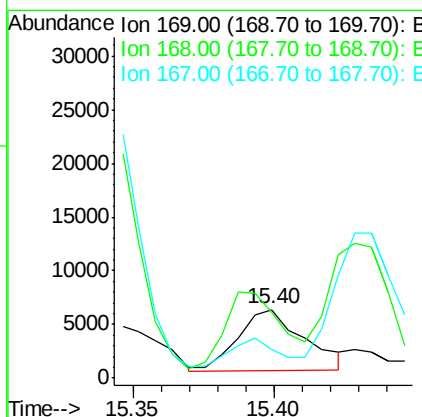
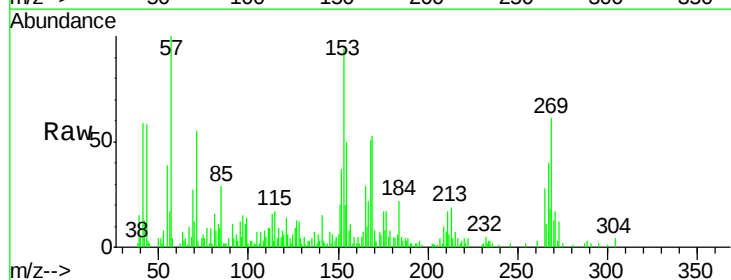
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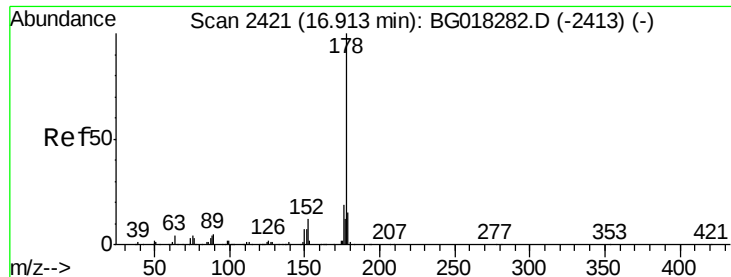
Tgt Ion:166 Resp: 275257
 Ion Ratio Lower Upper
 166 100
 165 92.4 72.4 108.6
 167 16.1 11.4 17.0



#65
N-Nitrosodiphenylamine
 Concen: 2.37 ng/ul
 RT: 15.40 min Scan# 2163
 Delta R.T. 0.01 min
 Lab File: BG018289.D
 Acq: 6 Aug 2015 2:06

Tgt Ion:169 Resp: 9204
 Ion Ratio Lower Upper
 169 100
 168 95.3 50.2 75.2#
 167 41.0 27.3 40.9#





#70

Phenanthrene

Concen: 73.58 ng/ul

RT: 17.02 min Scan# 2439

Delta R.T. 0.11 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Instrument :

BNA_G

ClientSampleId :

C01W3RE

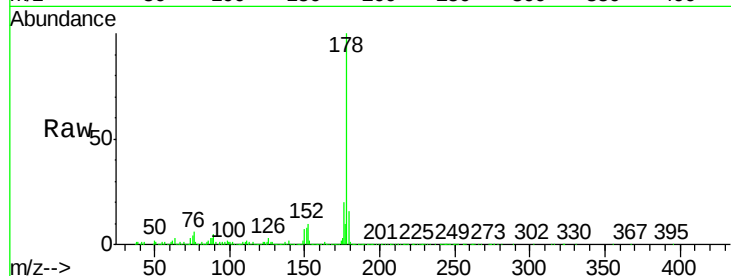
Tgt Ion:178 Resp: 548568

Ion Ratio Lower Upper

178 100

179 16.5 12.2 18.4

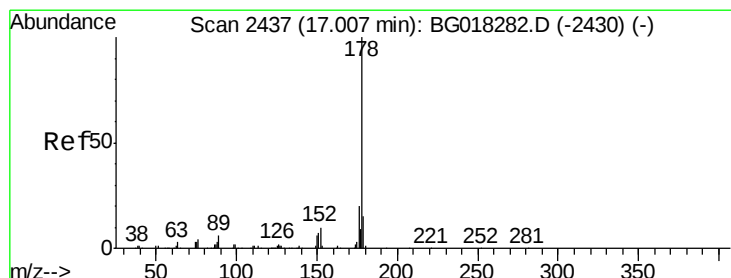
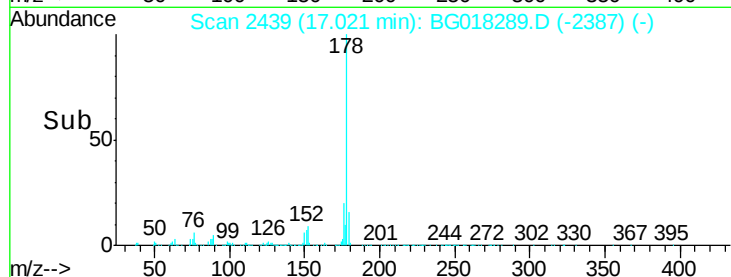
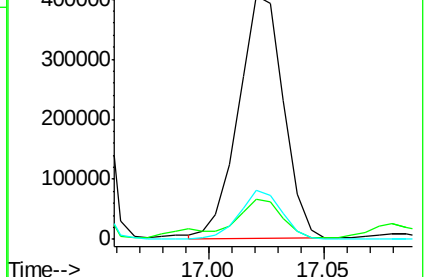
176 20.1 14.5 21.7



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: 73.84 ng/ul

RT: 17.02 min Scan# 2439

Delta R.T. 0.01 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

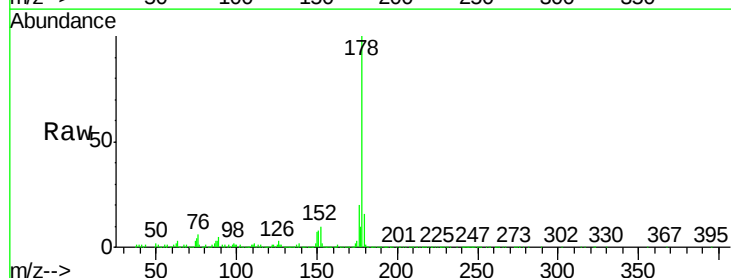
Tgt Ion:178 Resp: 549415

Ion Ratio Lower Upper

178 100

179 16.5 12.2 18.4

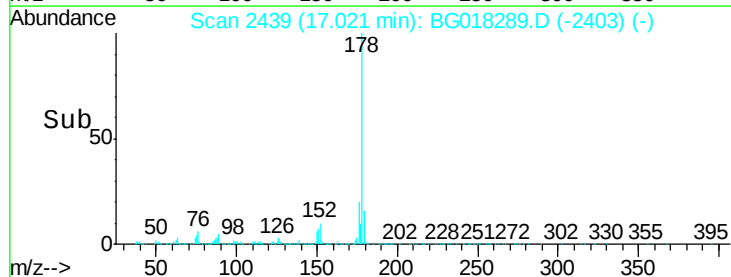
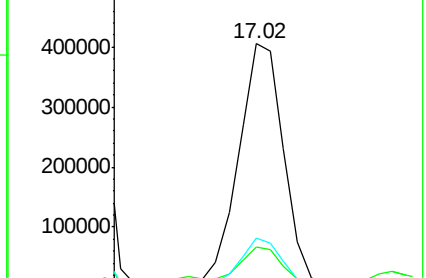
176 20.1 15.3 22.9

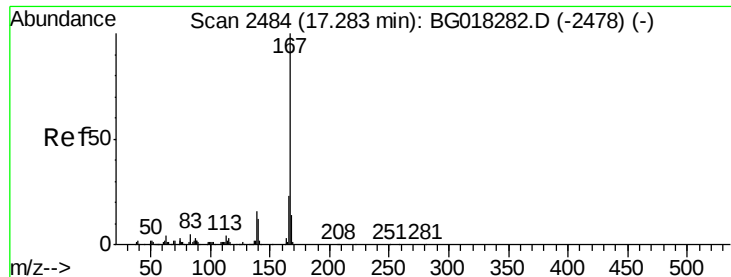


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 12.44 ng/ul

RT: 17.30 min Scan# 2486

Delta R.T. 0.01 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Instrument :

BNA_G

ClientSampleId :

C01W3RE

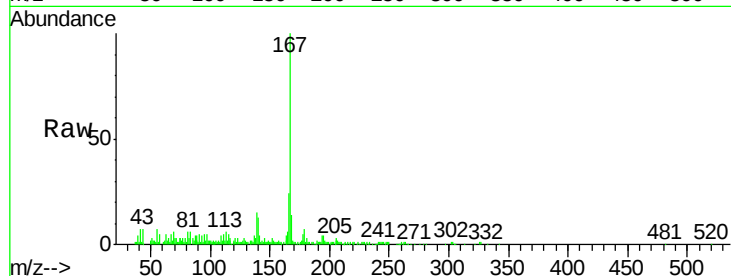
Tgt Ion:167 Resp: 78084

Ion Ratio Lower Upper

167 100

166 24.4 17.8 26.8

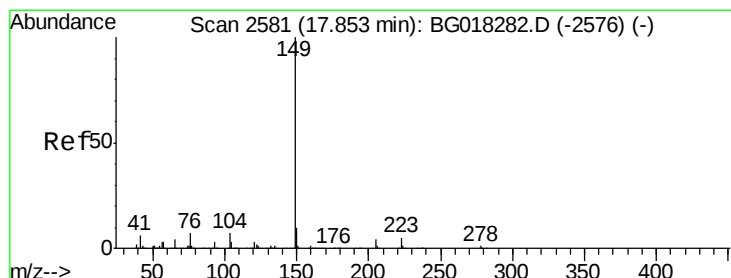
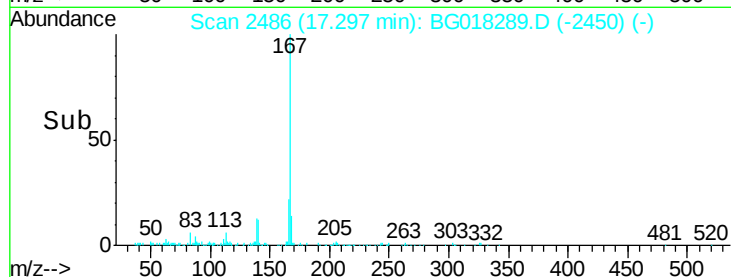
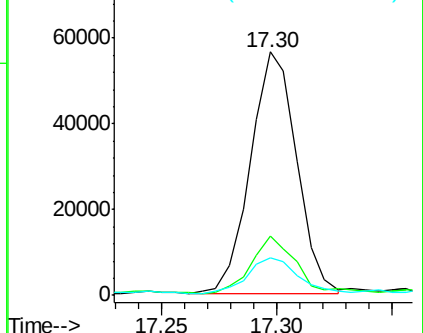
139 15.5 10.6 16.0



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



#76

Di-n-butylphthalate

Concen: 7.86 ng/ul

RT: 17.87 min Scan# 2583

Delta R.T. 0.01 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

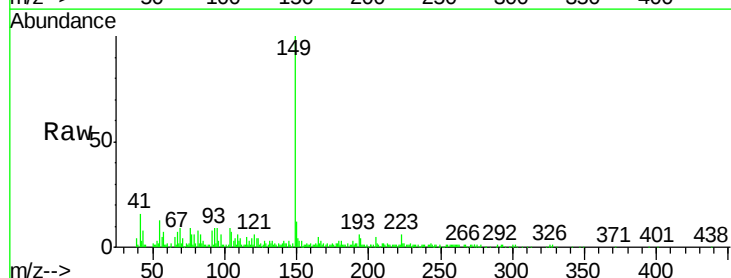
Tgt Ion:149 Resp: 69180

Ion Ratio Lower Upper

149 100

150 12.5 7.4 11.2#

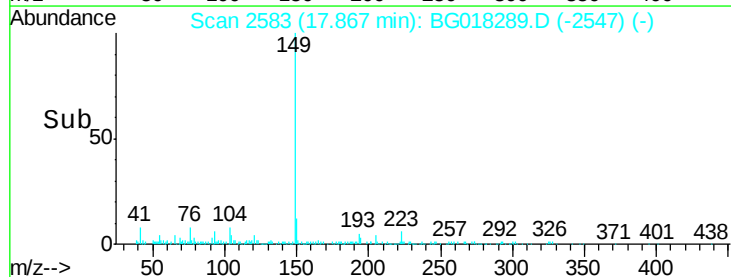
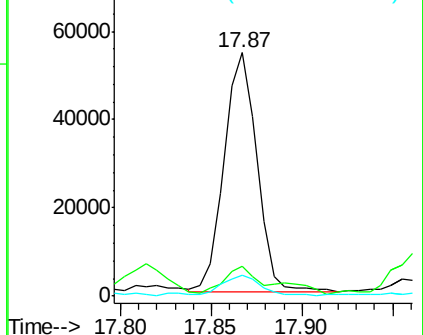
104 8.7 5.5 8.3#

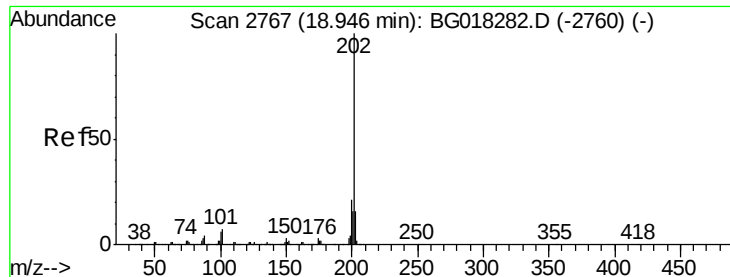


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

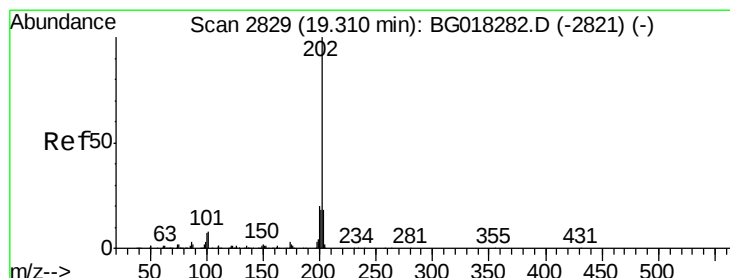
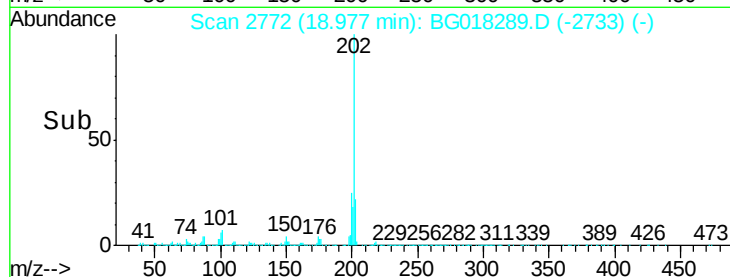
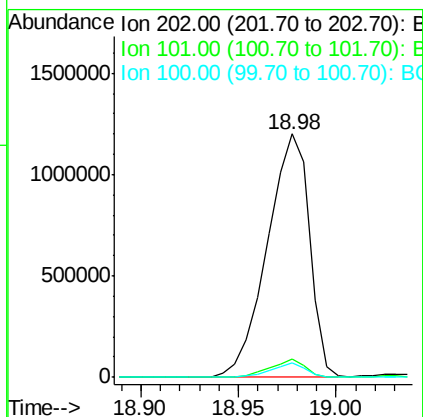
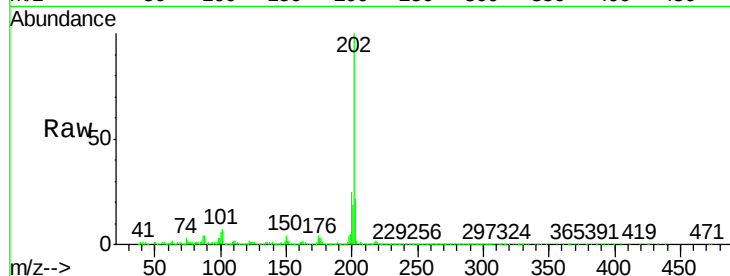




#77
 Fluoranthene
 Concen: 216.78 ng/ul
 RT: 18.98 min Scan# 2772
 Delta R.T. 0.03 min
 Lab File: BG018289.D
 Acq: 6 Aug 2015 2:06

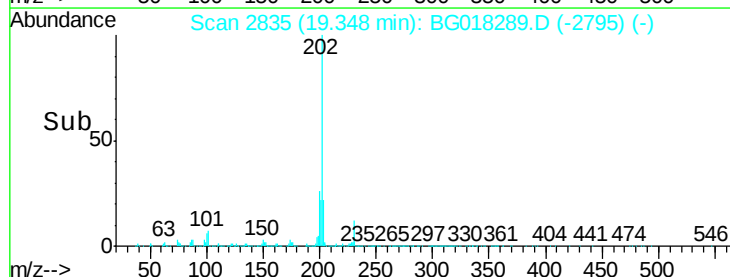
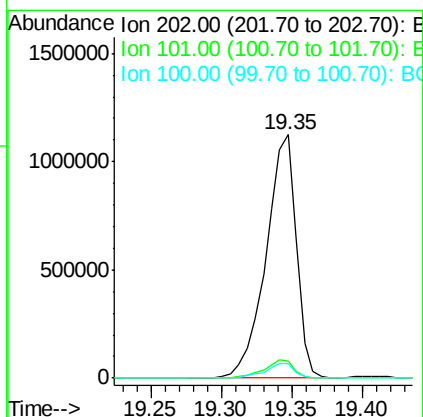
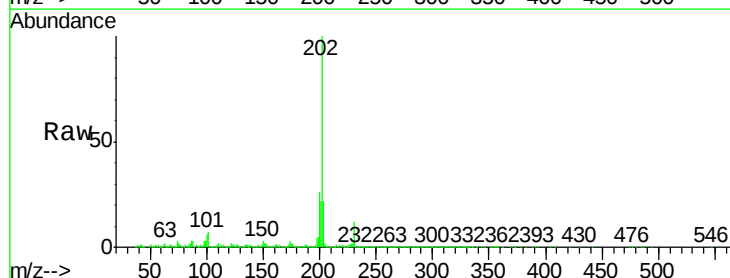
Instrument :
 BNA_G
 ClientSampleId :
 C01W3RE

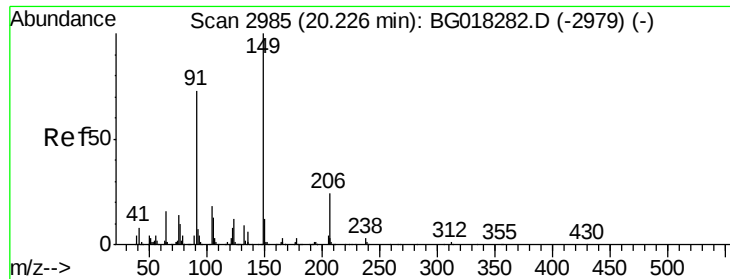
Tgt Ion:202 Resp: 1792654
 Ion Ratio Lower Upper
 202 100
 101 7.4 6.2 9.2
 100 5.8 4.6 6.8



#80
 Pyrene
 Concen: 174.84 ng/ul
 RT: 19.35 min Scan# 2835
 Delta R.T. 0.04 min
 Lab File: BG018289.D
 Acq: 6 Aug 2015 2:06

Tgt Ion:202 Resp: 1685832
 Ion Ratio Lower Upper
 202 100
 101 7.1 6.2 9.2
 100 5.8 4.6 7.0

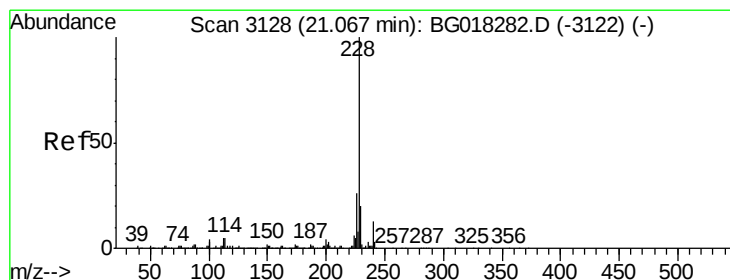
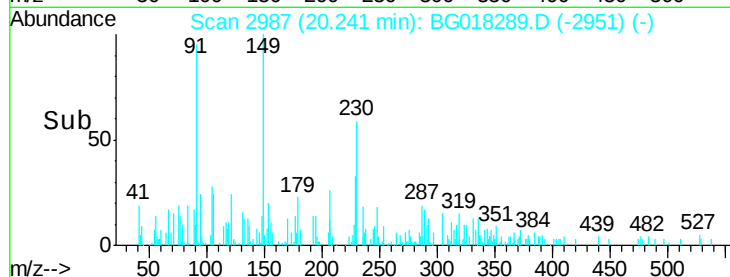
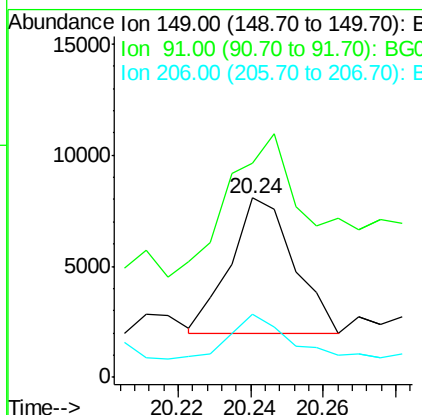
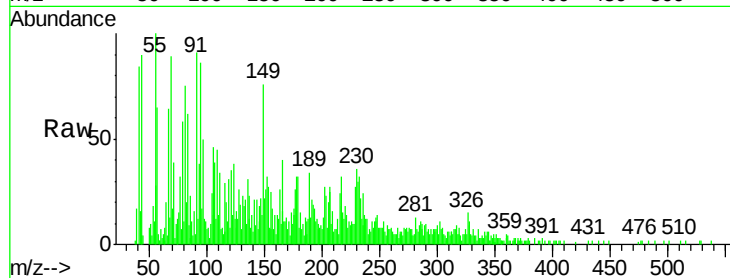




#81
Butylbenzylphthalate
Concen: 1.99 ng/ul
RT: 20.24 min Scan# 2987
Delta R.T. 0.01 min
Lab File: BG018289.D
Acq: 6 Aug 2015 2:06

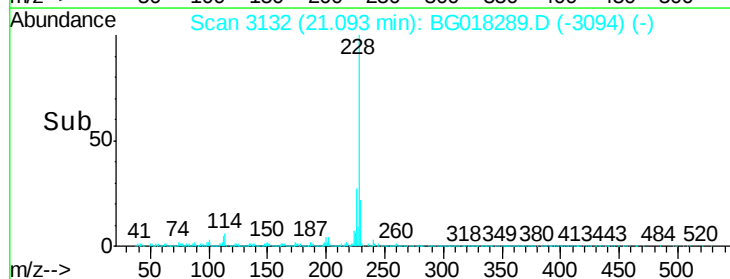
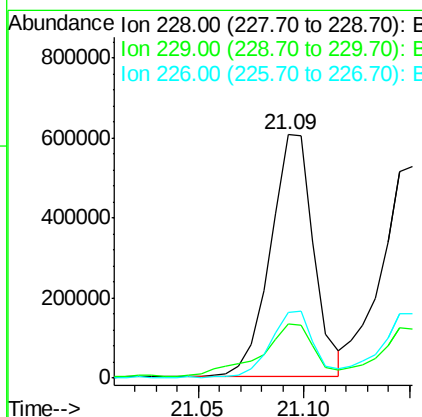
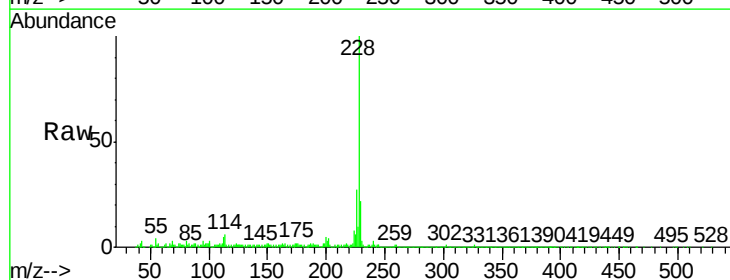
Instrument :
BNA_G
ClientSampleId :
C01W3RE

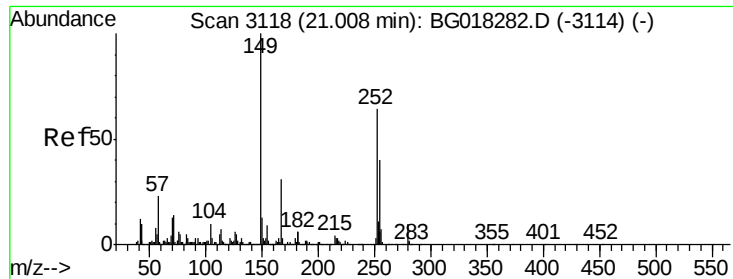
Tgt Ion:149 Resp: 7442
Ion Ratio Lower Upper
149 100
91 119.6 58.2 87.2#
206 35.4 19.9 29.9#



#83
Benzo(a)anthracene
Concen: 118.21 ng/ul
RT: 21.09 min Scan# 3132
Delta R.T. 0.03 min
Lab File: BG018289.D
Acq: 6 Aug 2015 2:06

Tgt Ion:228 Resp: 865209
Ion Ratio Lower Upper
228 100
229 22.3 16.3 24.5
226 27.1 21.2 31.8

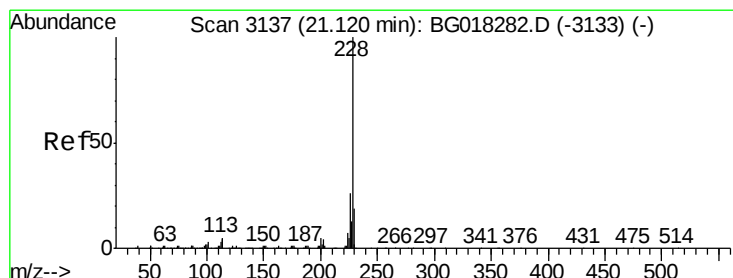
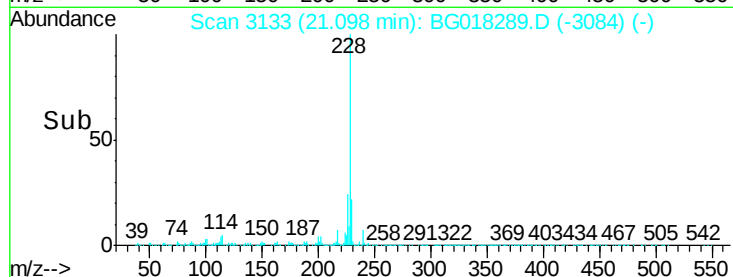
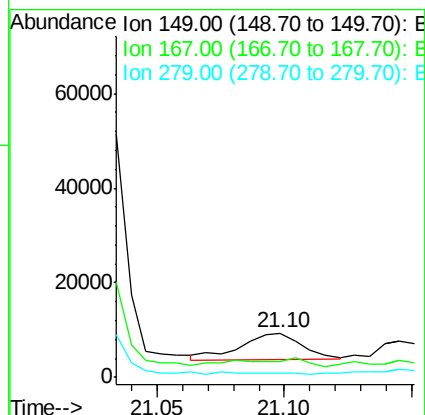
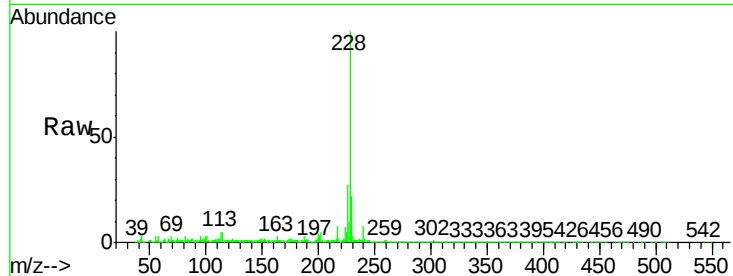




#84
 Bis(2-ethylhexyl)phthalate
 Concen: 2.18 ng/ul
 RT: 21.10 min Scan# 3133
 Delta R.T. 0.09 min
 Lab File: BG018289.D
 Acq: 6 Aug 2015 2:06

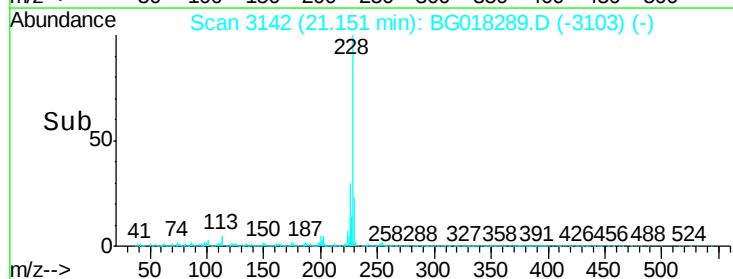
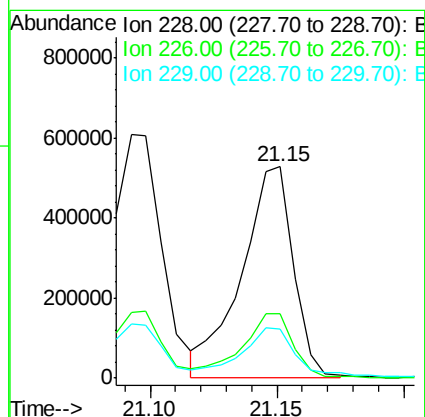
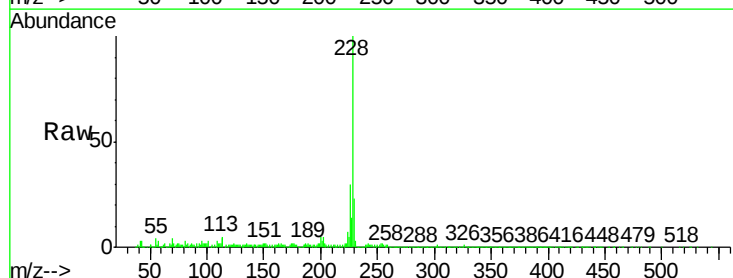
Instrument :
 BNA_G
 ClientSampleId :
 C01W3RE

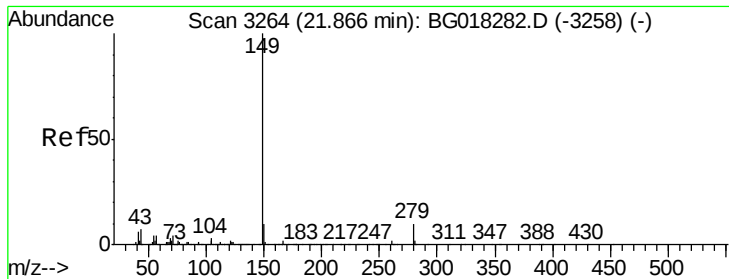
Tgt Ion:149 Resp: 9817
 Ion Ratio Lower Upper
 149 100
 167 37.1 26.4 39.6
 279 10.9 8.6 12.8



#85
 Chrysene
 Concen: 113.63 ng/ul
 RT: 21.15 min Scan# 3142
 Delta R.T. 0.03 min
 Lab File: BG018289.D
 Acq: 6 Aug 2015 2:06

Tgt Ion:228 Resp: 747262
 Ion Ratio Lower Upper
 228 100
 226 30.5 23.0 34.6
 229 23.5 15.9 23.9

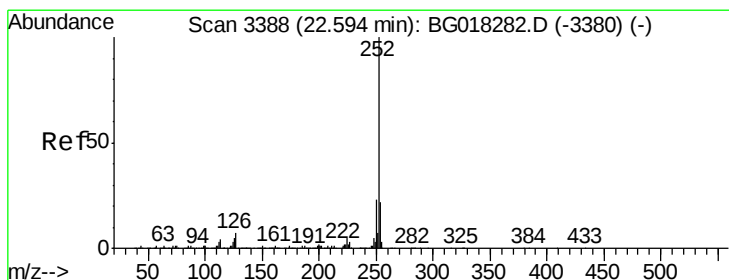
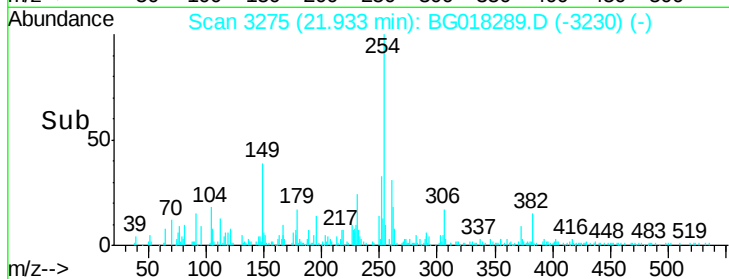
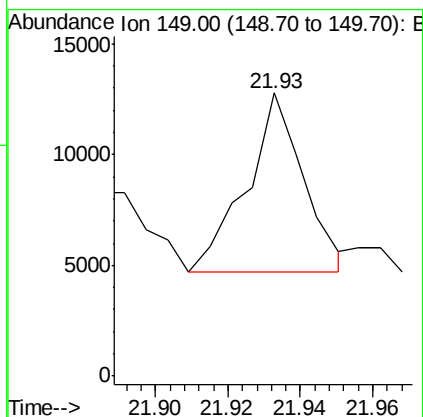
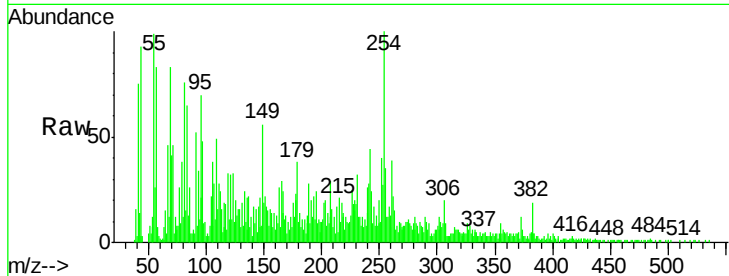




#87
 Di-n-octyl phthalate
 Concen: 1.03 ng/ul
 RT: 21.93 min Scan# 3275
 Delta R.T. 0.07 min
 Lab File: BG018289.D
 Acq: 6 Aug 2015 2:06

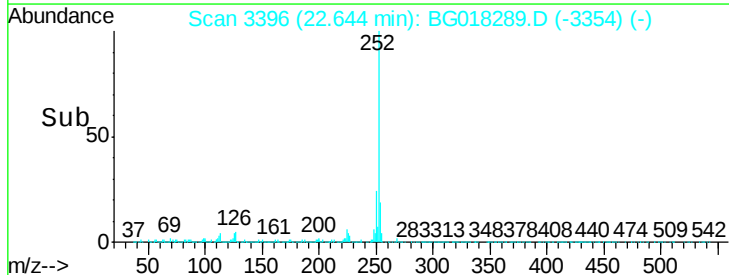
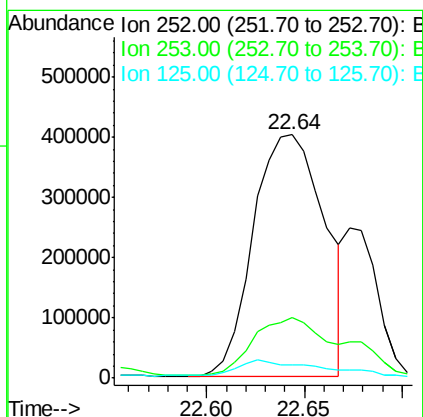
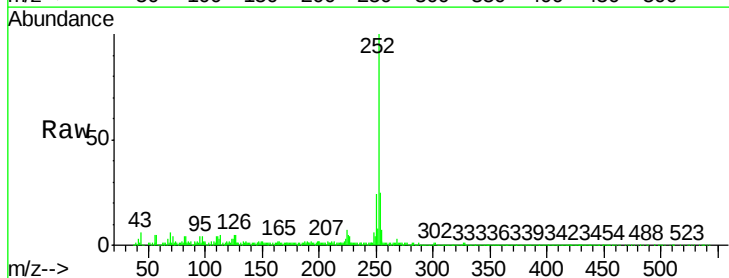
Instrument :
 BNA_G
 ClientSampleId :
 C01W3RE

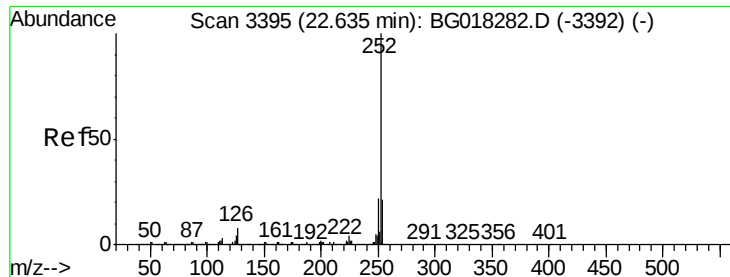
Tgt Ion:149 Resp: 8838



#88
 Benzo(b)fluoranthene
 Concen: 126.61 ng/ul
 RT: 22.64 min Scan# 3396
 Delta R.T. 0.05 min
 Lab File: BG018289.D
 Acq: 6 Aug 2015 2:06

Tgt Ion:252 Resp: 1015627
 Ion Ratio Lower Upper
 252 100
 253 24.9 18.1 27.1
 125 5.3 3.1 4.7#





#89

Benzo(k)fluoranthene

Concen: 132.03 ng/u1

RT: 22.64 min Scan# 3396

Delta R.T. 0.01 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Instrument :

BNA_G

ClientSampleId :

C01W3RE

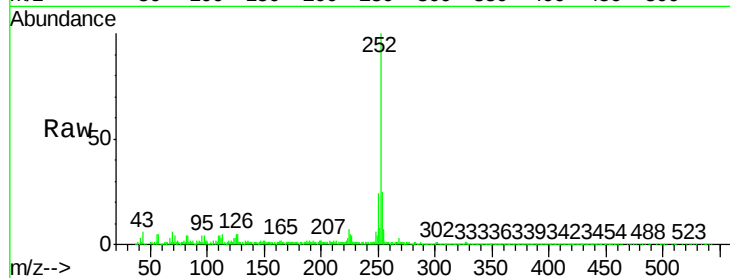
Tgt Ion:252 Resp: 1015627

Ion Ratio Lower Upper

252 100

253 24.9 16.4 24.6#

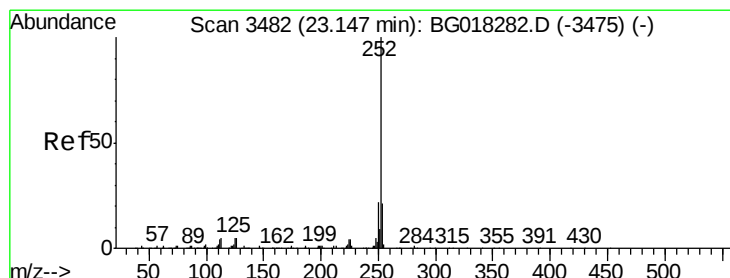
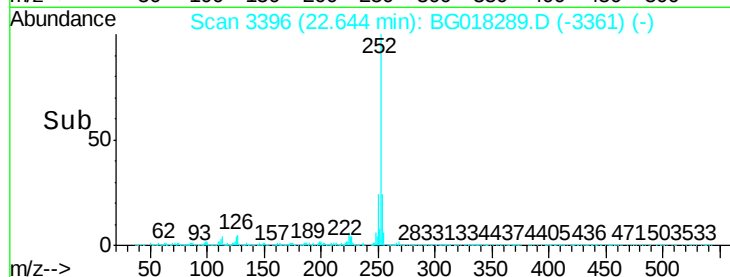
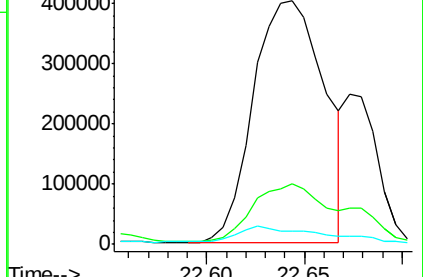
125 5.3 3.4 5.2#



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: 99.98 ng/u1

RT: 23.20 min Scan# 3491

Delta R.T. 0.06 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

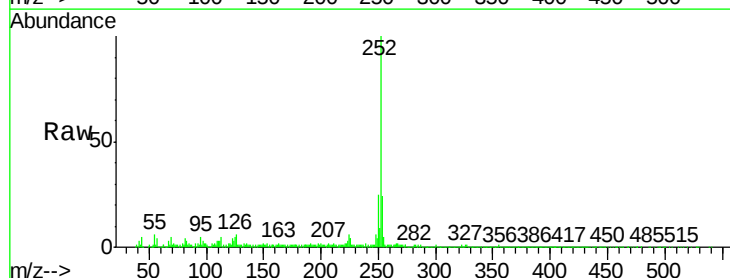
Tgt Ion:252 Resp: 700252

Ion Ratio Lower Upper

252 100

253 23.8 18.9 28.3

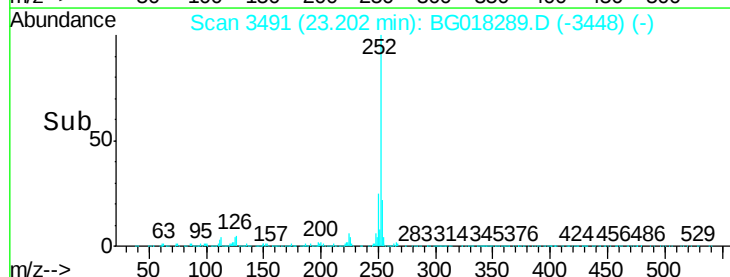
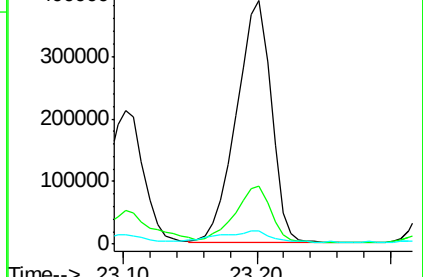
125 5.3 3.2 4.8#

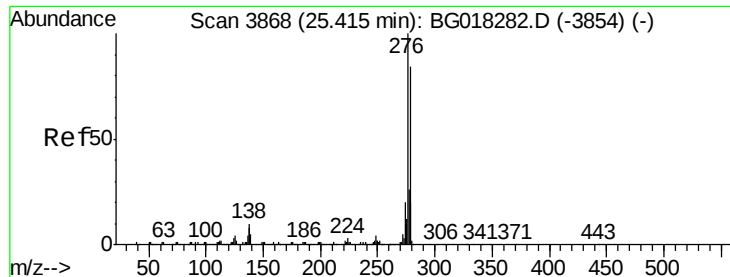


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Indeno(1,2,3-cd)pyrene

Concen: 39.60 ng/ul

RT: 25.49 min Scan# 3881

Delta R.T. 0.08 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Instrument :

BNA_G

ClientSampleId :

C01W3RE

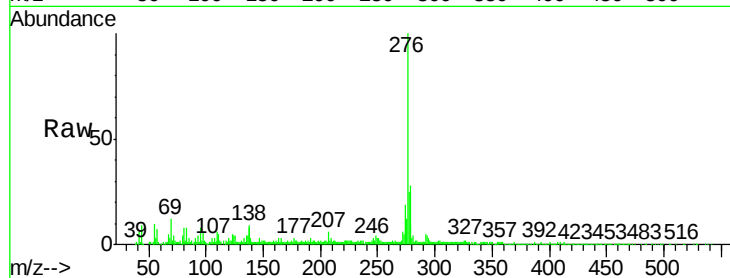
Tgt Ion:276 Resp: 343098

Ion Ratio Lower Upper

276 100

138 8.9 8.2 12.4

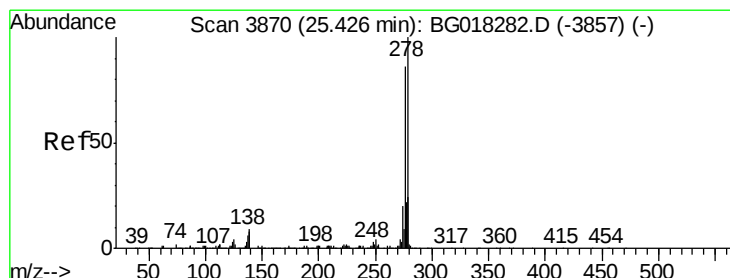
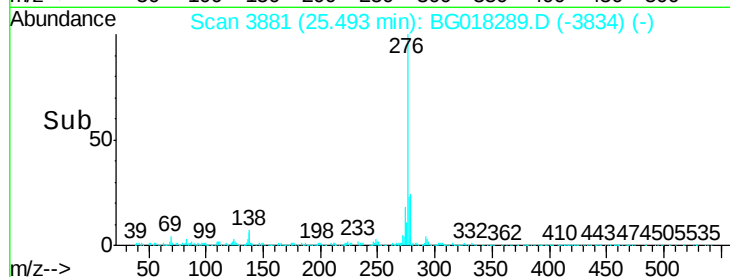
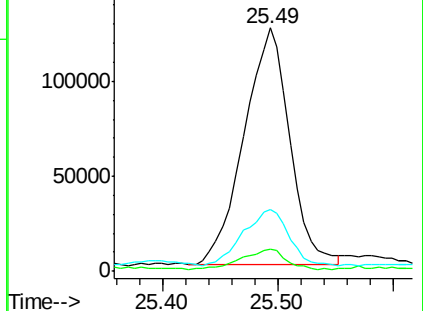
277 25.2 20.1 30.1



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: 13.99 ng/ul

RT: 25.48 min Scan# 3879

Delta R.T. 0.06 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

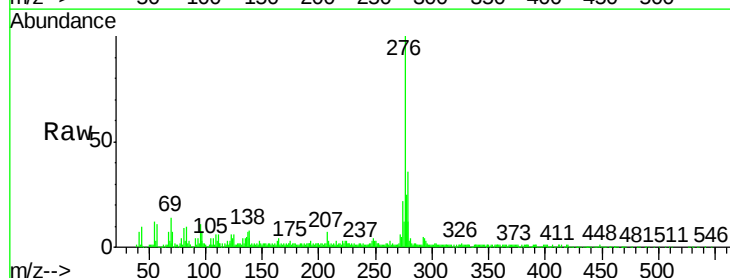
Tgt Ion:278 Resp: 106384

Ion Ratio Lower Upper

278 100

139 11.6 5.8 8.8#

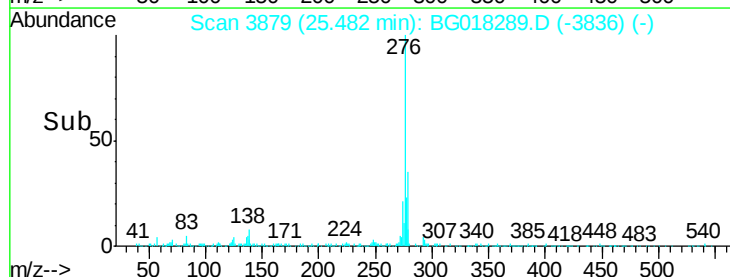
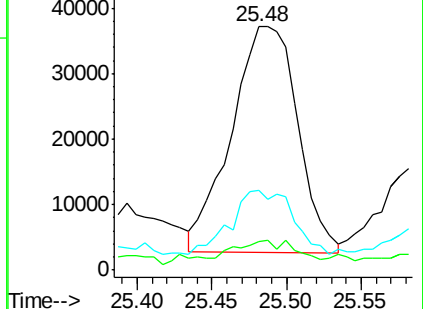
279 32.8 19.8 29.6#

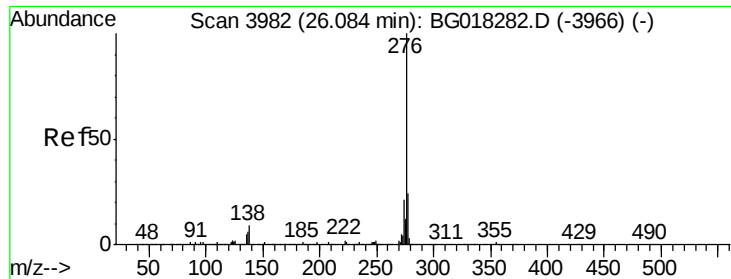


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#94

Benzo(g,h,i)perylene

Concen: 39.73 ng/ul

RT: 26.16 min Scan# 3995

Delta R.T. 0.08 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Instrument :

BNA_G

ClientSampleId :

C01W3RE

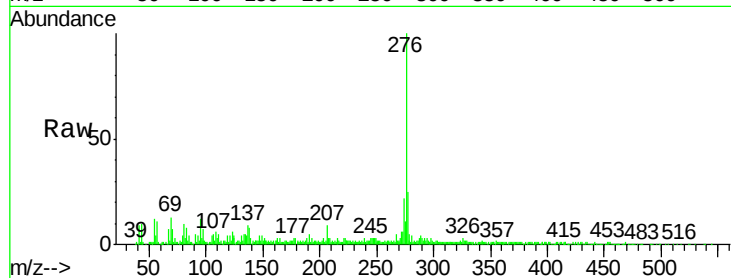
Tgt Ion:276 Resp: 279368

Ion Ratio Lower Upper

276 100

138 7.8 6.0 9.0

277 24.8 21.1 31.7



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

