

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080515\
 Data File : BG018291.D
 Acq On : 6 Aug 2015 3:16
 Operator : UM/TP
 Sample : G3109-08RE
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C01J2RE

Quant Time: Aug 06 05:06:06 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	48211	20.00	ng/ul	0.01
18) Naphthalene-d8	10.23	136	218062	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.13	164	125174	20.00	ng/ul	0.01
62) Phenanthrene-d10	16.89	188	196283	20.00	ng/ul	0.02
78) Chrysene-d12	21.12	240	184435	20.00	ng/ul	0.03
86) Perylene-d12	23.30	264	151514	20.00	ng/ul	0.06

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.90	96	1309	2.34	ng/uL	0.00
5) Phenol-d5	6.65	99	67240	17.73	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	6.78	67	35141	19.18	ng/ul	0.00
9) 2-Chlorophenol-d4	6.98	132	59787	18.94	ng/ul	0.01
13) 4-Methylphenol-d8	8.18	113	28044	8.76	ng/ul	0.01
19) Nitrobenzene-d5	8.60	128	32494	19.24	ng/ul	0.01
22) 2-Nitrophenol-d4	9.32	143	38084	19.50	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	9.87	165	65722	18.30	ng/ul	0.02
29) 4-Chloroaniline-d4	10.37	131	4727	1.10	ng/ul	0.01
44) Dimethylphthalate-d6	13.54	166	191594	19.79	ng/ul	0.01
47) Acenaphthylene-d8	13.82	160	222735	20.29	ng/ul	0.01
52) 4-Nitrophenol-d4	14.40	143	20509	12.84	ng/ul	0.03
58) Fluorene-d10	15.13	176	157159	18.07	ng/ul	0.01
63) 4,6-Dinitro-2-methylphenol	15.27	200	114	0.08	ng/ul	0.00
71) Anthracene-d10	16.99	188	170326	19.73	ng/ul	0.02
79) Pyrene-d10	19.32	212	127485	12.35	ng/ul	0.03
90) Benzo(a)pyrene-d12	23.30	264	149899	19.01	ng/ul	0.19

Target Compounds

						Qvalue
28) Naphthalene	10.27	128	67034	6.54	ng/ul	97
34) 2-Methylnaphthalene	11.91	142	27062	3.29	ng/ul	95
35) 1-Methylnaphthalene	12.13	142	23941	3.01	ng/ul#	82
41) 1,1'-Biphenyl	12.94	154	16945	1.96	ng/ul#	81
45) Dimethylphthalate	13.59	163	76574	7.93	ng/ul	97
48) Acenaphthylene	13.85	152	137987	12.21	ng/ul	98
50) Acenaphthene	14.19	153	119533	16.34	ng/ul	97
54) Dibenzofuran	14.53	168	221557	20.58	ng/ul	97
59) Fluorene	15.18	166	293788	31.07	ng/ul	97
70) Phenanthrene	17.03	178	671300	67.77	ng/ul	97
72) Anthracene	17.03	178	675453	68.33	ng/ul	98
75) Carbazole	17.31	167	198371	23.78	ng/ul	95
76) Di-n-butylphthalate	17.87	149	12836	1.10	ng/ul#	90
77) Fluoranthene	18.99	202	3583864	326.18	ng/ul#	87
80) Pyrene	19.36	202	2911540	227.03	ng/ul#	89
83) Benzo(a)anthracene	21.11	228	1850540	190.09	ng/ul#	88
85) Chrysene	21.16	228	1638135	187.28	ng/ul#	85
88) Benzo(b)fluoranthene	22.66	252	2387932	256.98	ng/ul#	93
89) Benzo(k)fluoranthene	22.70	252	709487	79.62	ng/ul#	90
91) Benzo(a)pyrene	23.22	252	1564073	192.78	ng/ul#	95
92) Indeno(1,2,3-cd)pyrene	25.53	276	736470	73.37	ng/ul	98
93) Dibenzo(a,h)anthracene	25.52	278	182977	20.78	ng/ul#	94
94) Benzo(g,h,i)perylene	26.20	276	549005	67.40	ng/ul	98

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Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 03:42:27 2015
Response via : Initial Calibration

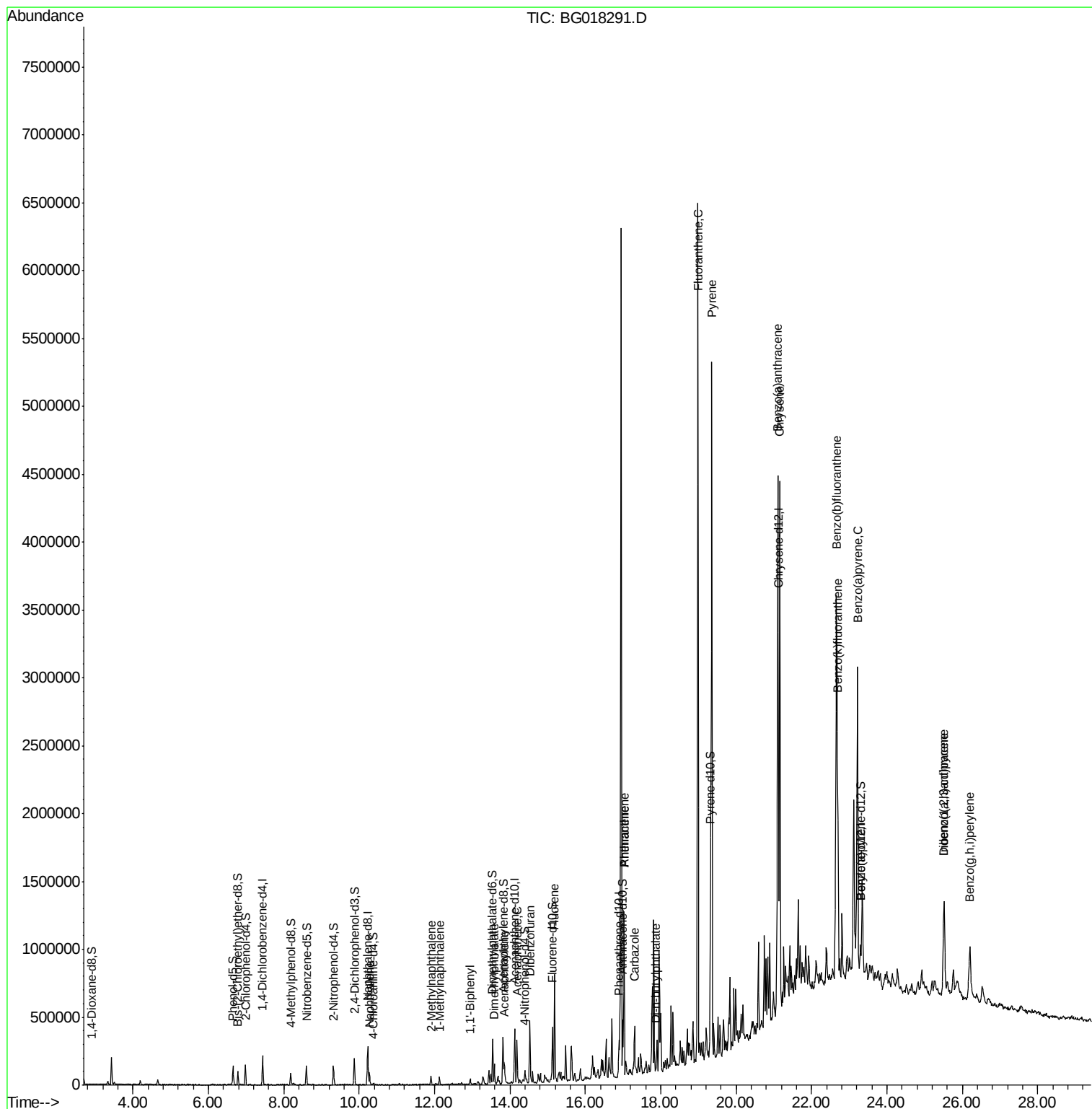
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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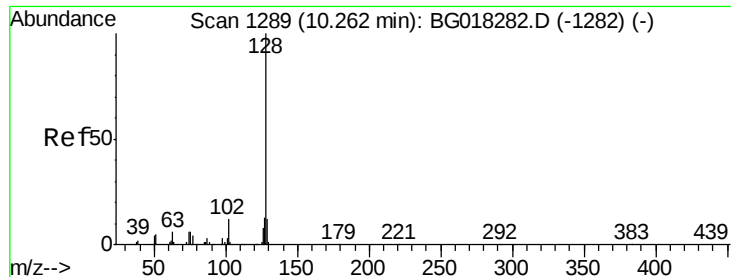
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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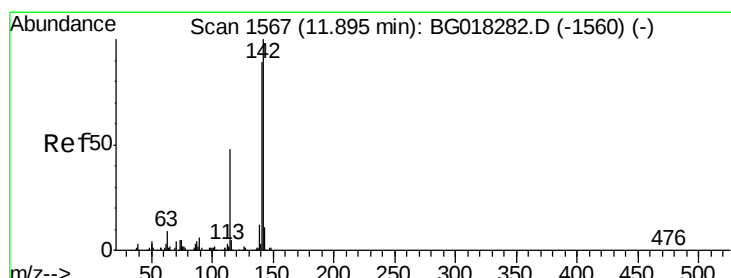
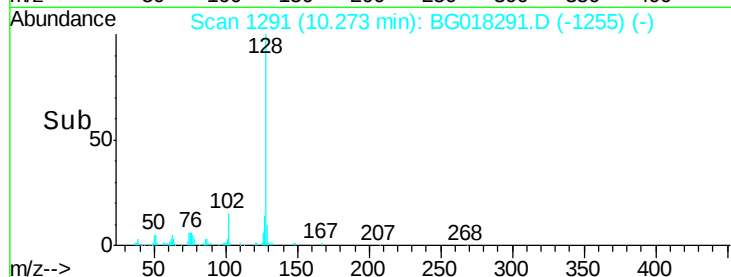
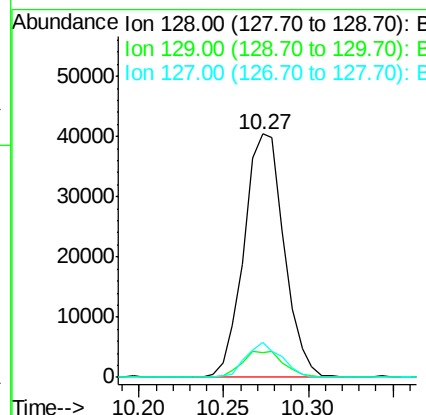
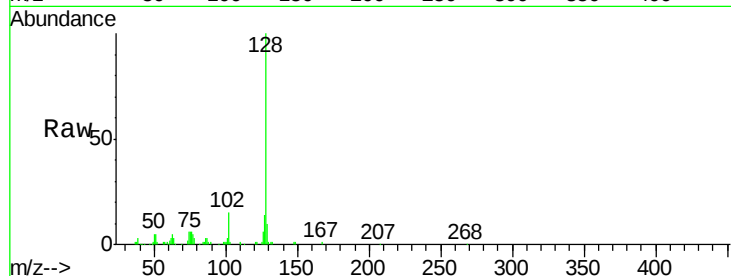




#28
Naphthalene
Concen: 6.54 ng/ul
RT: 10.27 min Scan# 1291
Delta R.T. 0.01 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

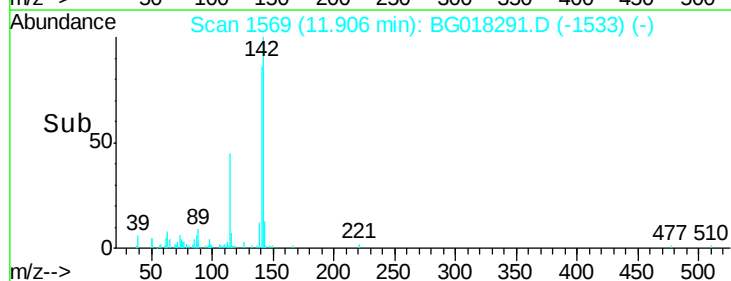
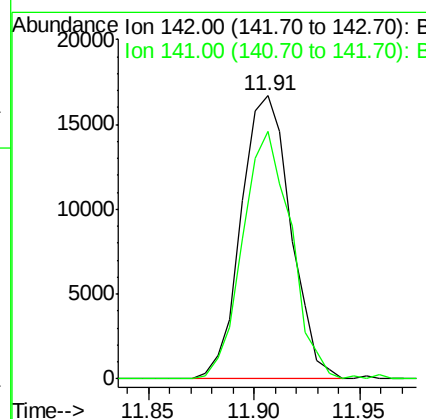
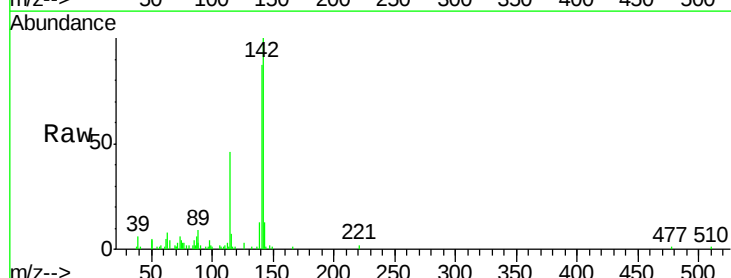
Instrument :
BNA_G
ClientSampleId :
C01J2RE

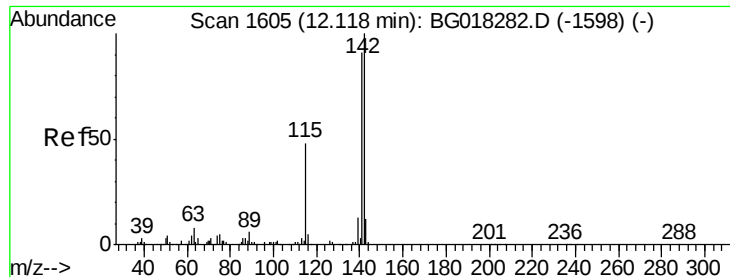
Tgt Ion:128 Resp: 67034
Ion Ratio Lower Upper
128 100
129 10.3 7.8 11.6
127 14.1 10.2 15.4



#34
2-Methylnaphthalene
Concen: 3.29 ng/ul
RT: 11.91 min Scan# 1569
Delta R.T. 0.01 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

Tgt Ion:142 Resp: 27062
Ion Ratio Lower Upper
142 100
141 87.2 65.9 98.9

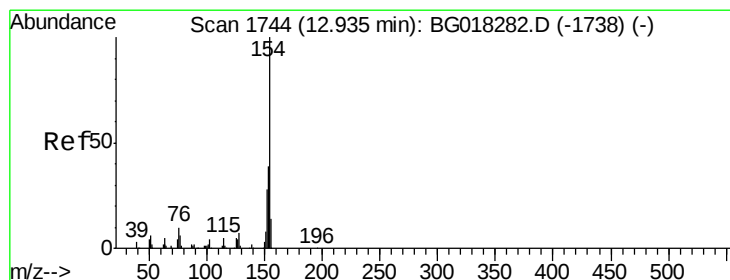
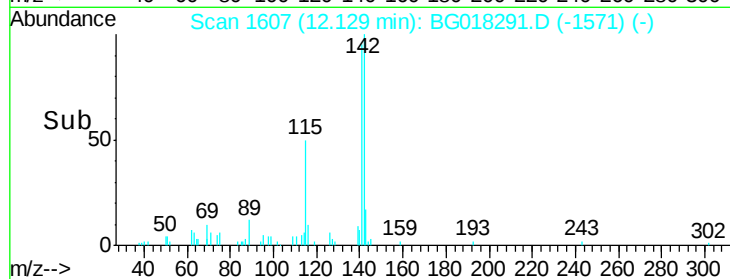
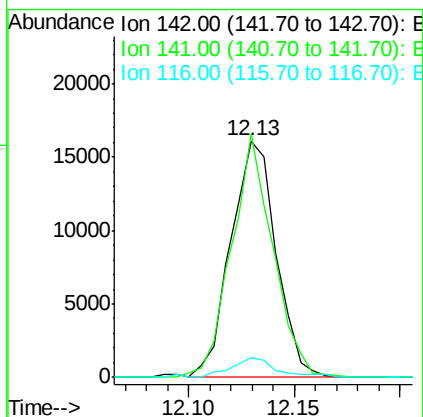
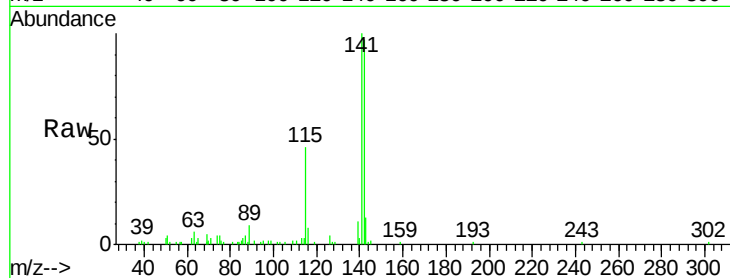




#35
 1-Methylnaphthalene
 Concen: 3.01 ng/ul
 RT: 12.13 min Scan# 1607
 Delta R.T. 0.01 min
 Lab File: BG018291.D
 Acq: 6 Aug 2015 3:16

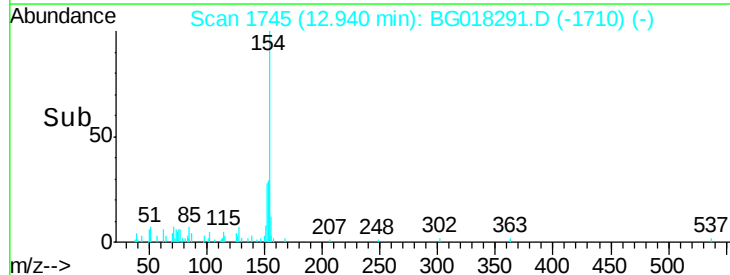
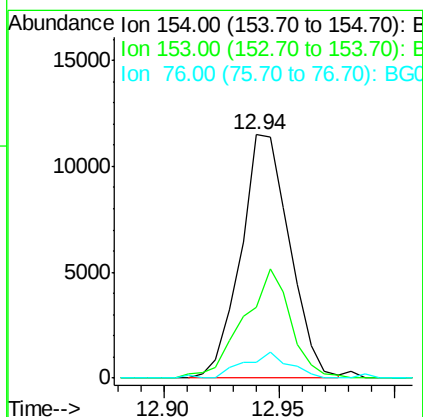
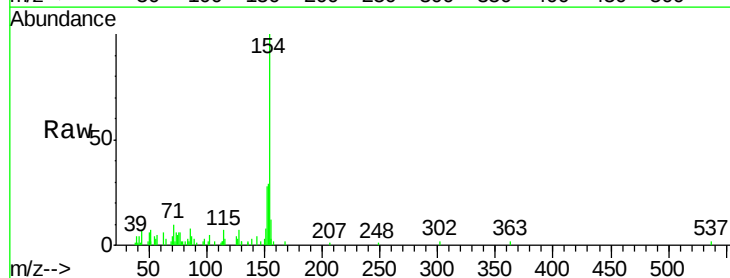
Instrument :
 BNA_G
 ClientSampleId :
 C01J2RE

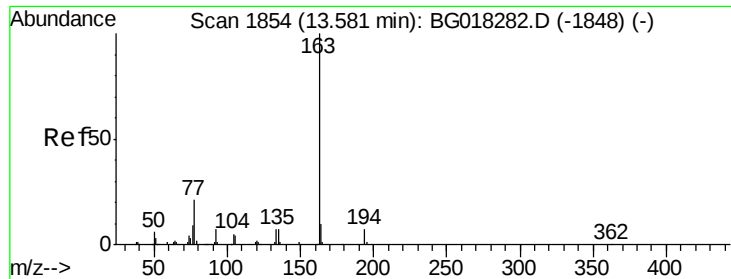
Tgt Ion:142 Resp: 23941
 Ion Ratio Lower Upper
 142 100
 141 103.1 69.0 103.4
 116 8.2 4.2 6.4#



#41
 1,1'-Biphenyl
 Concen: 1.96 ng/ul
 RT: 12.94 min Scan# 1745
 Delta R.T. 0.01 min
 Lab File: BG018291.D
 Acq: 6 Aug 2015 3:16

Tgt Ion:154 Resp: 16945
 Ion Ratio Lower Upper
 154 100
 153 28.8 33.4 50.0#
 76 6.3 8.6 12.8#





#45

Dimethylphthalate

Concen: 7.93 ng/ul

RT: 13.59 min Scan# 1855

Delta R.T. 0.01 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

Instrument :

BNA_G

ClientSampleId :

C01J2RE

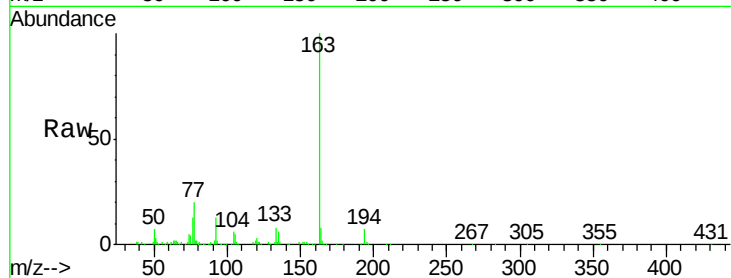
Tgt Ion:163 Resp: 76574

Ion Ratio Lower Upper

163 100

194 6.8 5.4 8.2

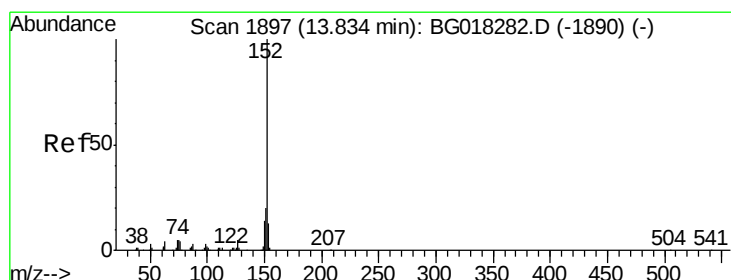
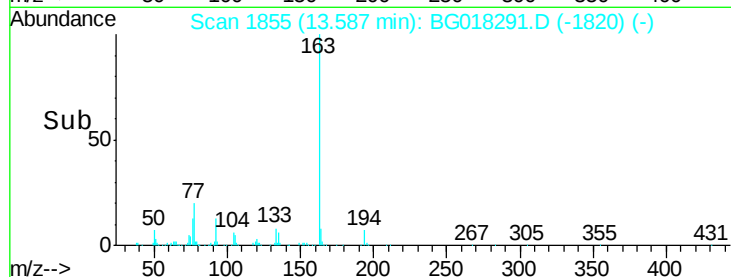
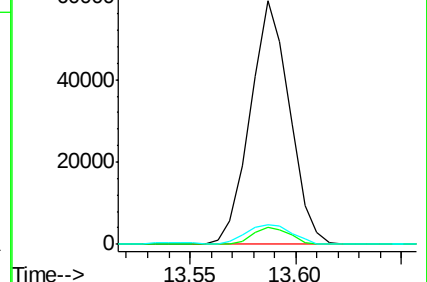
164 8.2 7.8 11.8



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: 12.21 ng/ul

RT: 13.85 min Scan# 1900

Delta R.T. 0.02 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

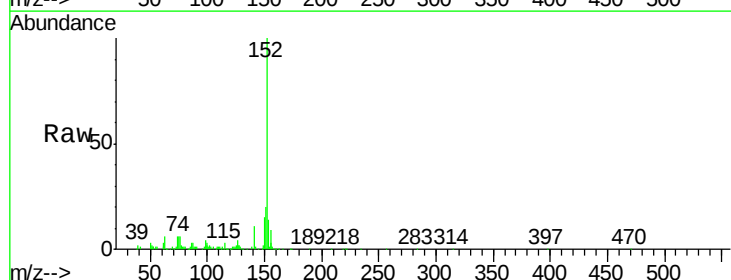
Tgt Ion:152 Resp: 137987

Ion Ratio Lower Upper

152 100

151 20.0 16.5 24.7

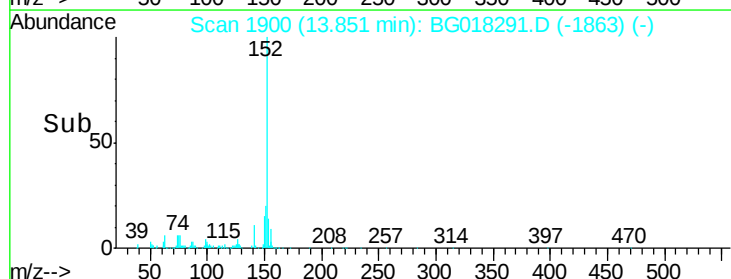
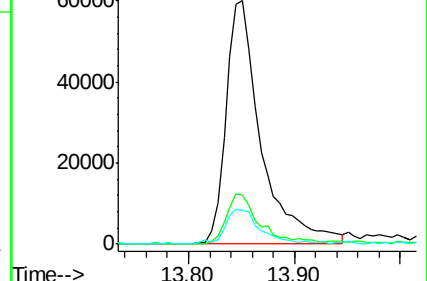
153 13.7 9.8 14.6

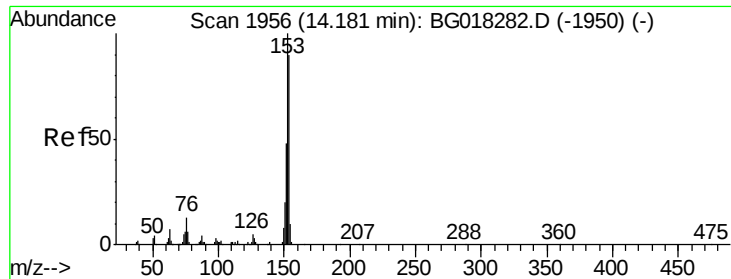


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#50

Acenaphthene

Concen: 16.34 ng/ul

RT: 14.19 min Scan# 1958

Delta R.T. 0.01 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

Instrument :

BNA_G

ClientSampleId :

C01J2RE

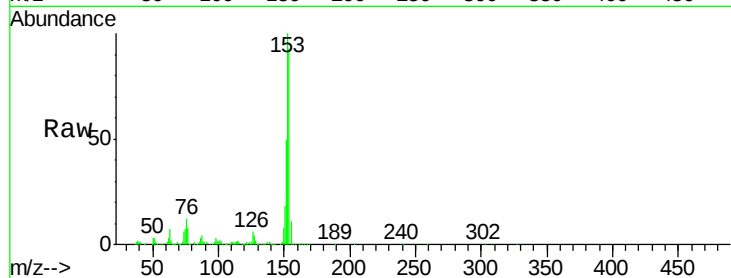
Tgt Ion:153 Resp: 119533

Ion Ratio Lower Upper

153 100

152 49.9 39.0 58.4

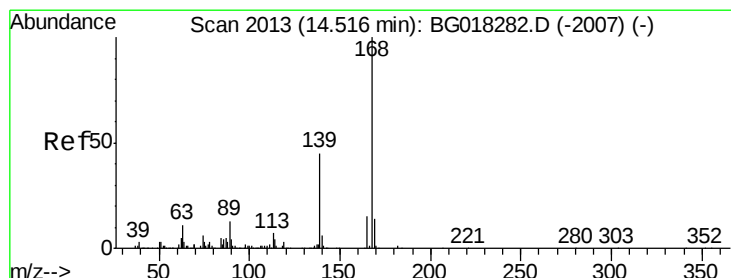
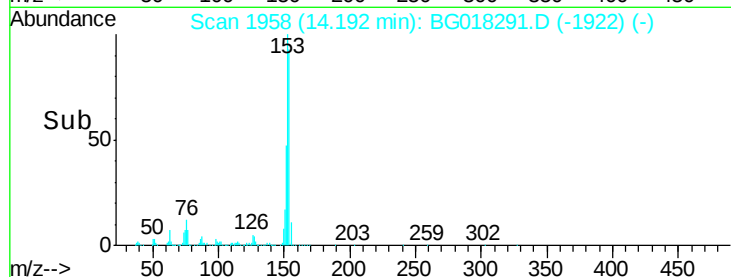
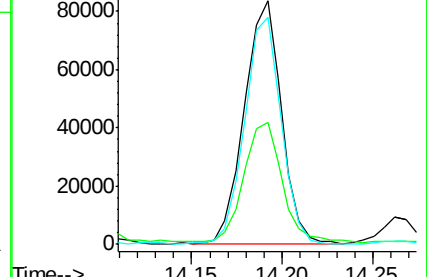
154 93.1 77.4 116.2



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: 20.58 ng/ul

RT: 14.53 min Scan# 2015

Delta R.T. 0.01 min

Lab File: BG018291.D

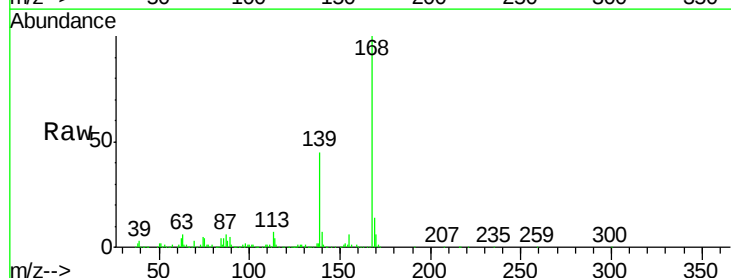
Acq: 6 Aug 2015 3:16

Tgt Ion:168 Resp: 221557

Ion Ratio Lower Upper

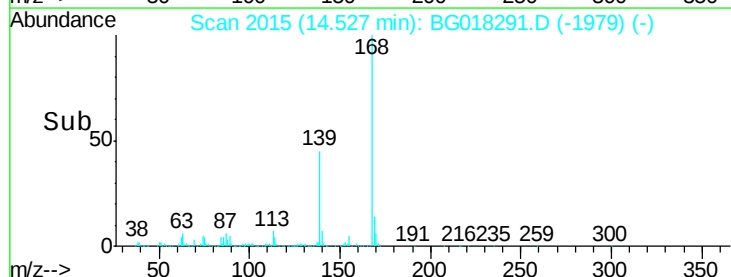
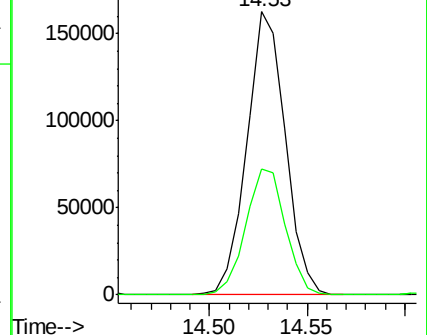
168 100

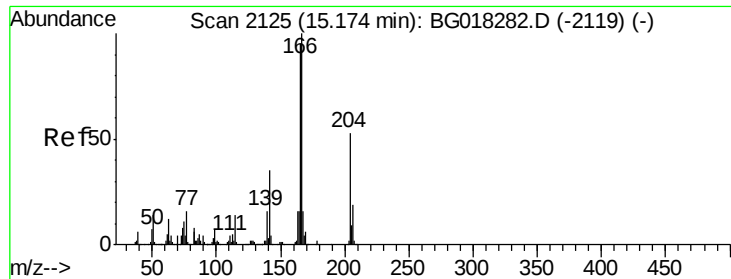
139 44.6 37.1 55.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#59

Fluorene

Concen: 31.07 ng/ul

RT: 15.18 min Scan# 2127

Delta R.T. 0.01 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

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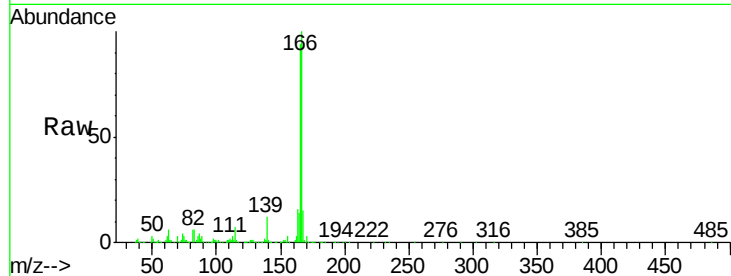
Tgt Ion:166 Resp: 293788

Ion Ratio Lower Upper

166 100

165 93.6 72.4 108.6

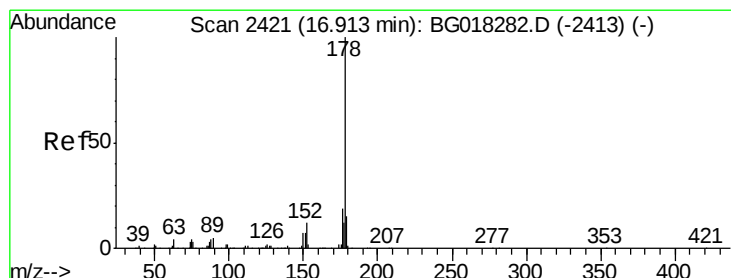
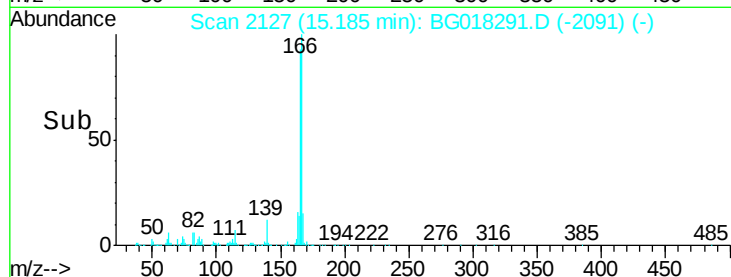
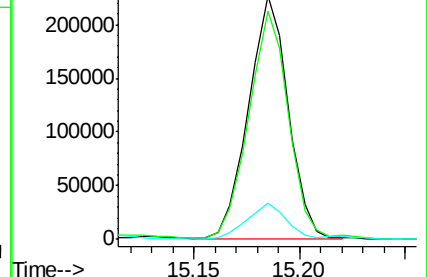
167 15.1 11.4 17.0



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#70

Phenanthrene

Concen: 67.77 ng/ul

RT: 17.03 min Scan# 2441

Delta R.T. 0.12 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

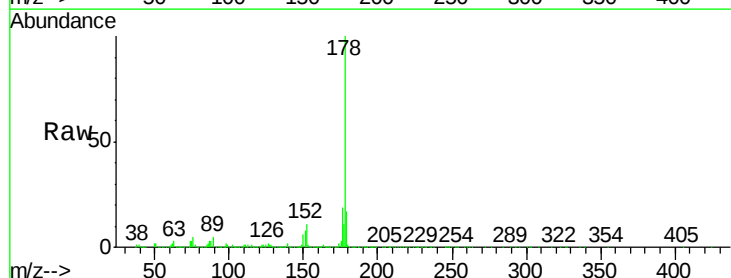
Tgt Ion:178 Resp: 671300

Ion Ratio Lower Upper

178 100

179 16.8 12.2 18.4

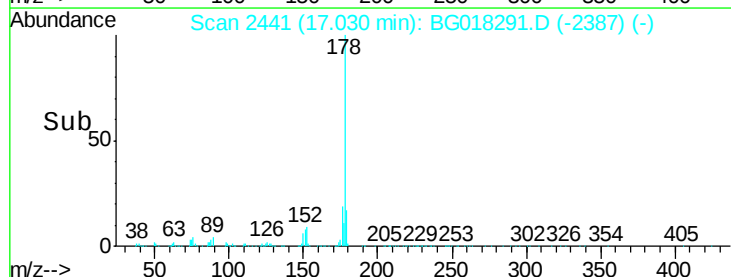
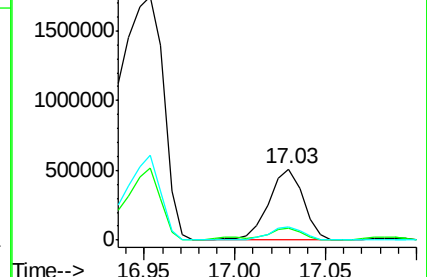
176 18.9 14.5 21.7

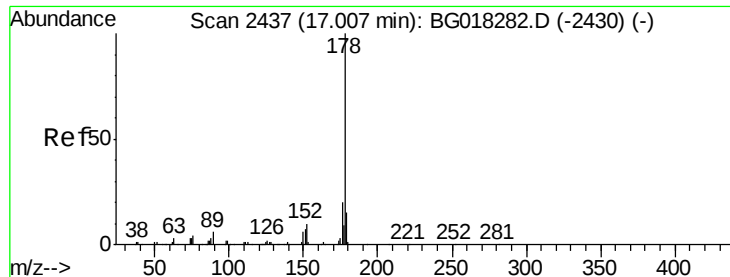


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 68.33 ng/ul

RT: 17.03 min Scan# 2441

Delta R.T. 0.02 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

Instrument :

BNA_G

ClientSampleId :

C01J2RE

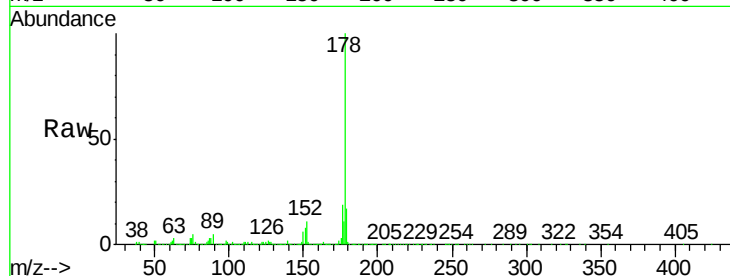
Tgt Ion:178 Resp: 675453

Ion Ratio Lower Upper

178 100

179 16.8 12.2 18.4

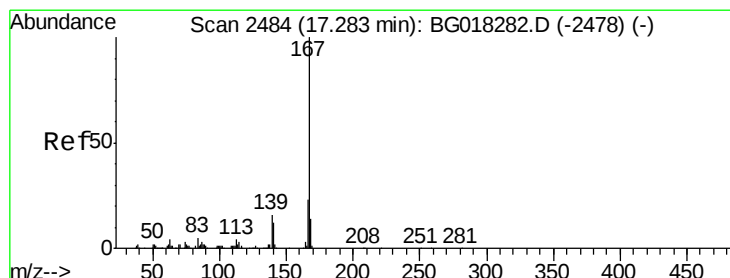
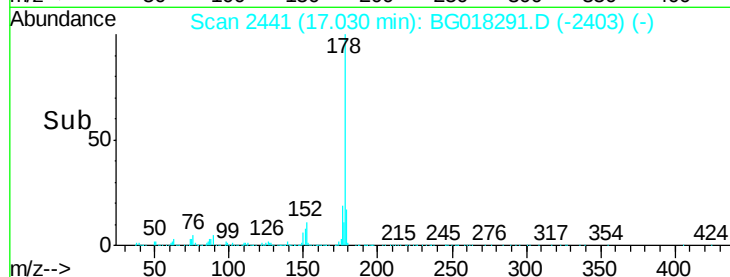
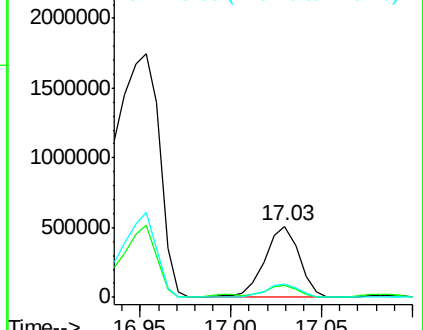
176 18.9 15.3 22.9



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: 23.78 ng/ul

RT: 17.31 min Scan# 2488

Delta R.T. 0.02 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

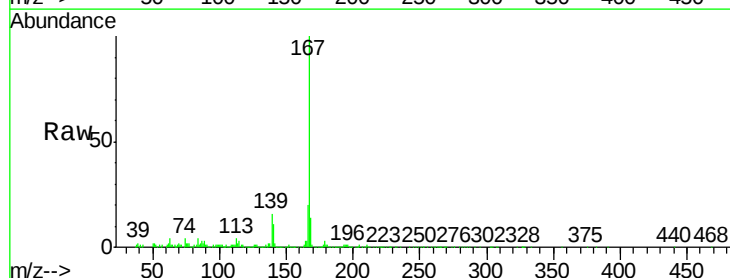
Tgt Ion:167 Resp: 198371

Ion Ratio Lower Upper

167 100

166 20.3 17.8 26.8

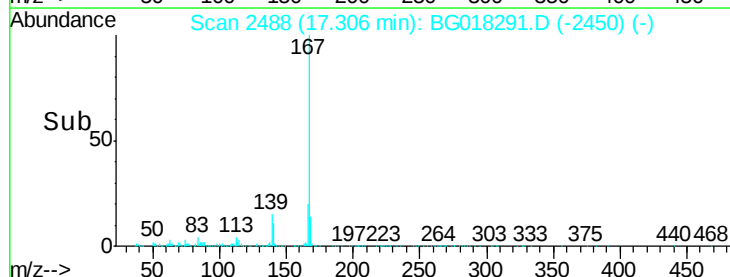
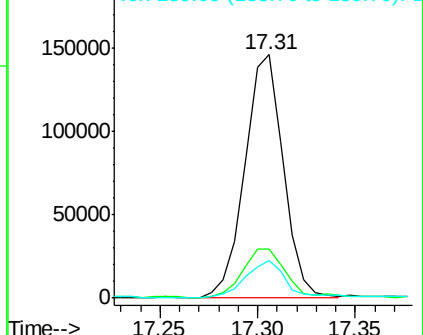
139 15.6 10.6 16.0

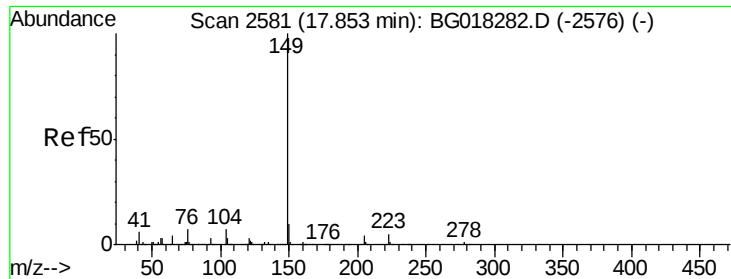


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

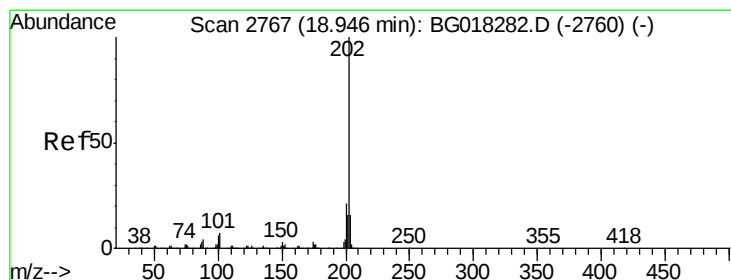
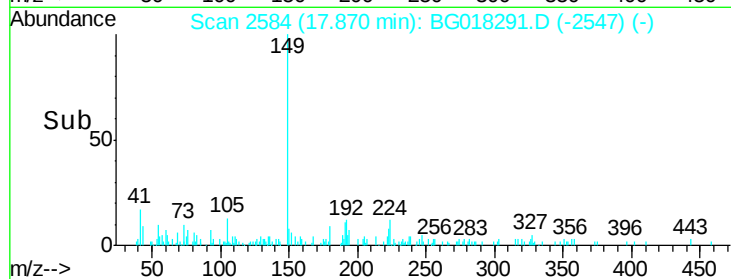
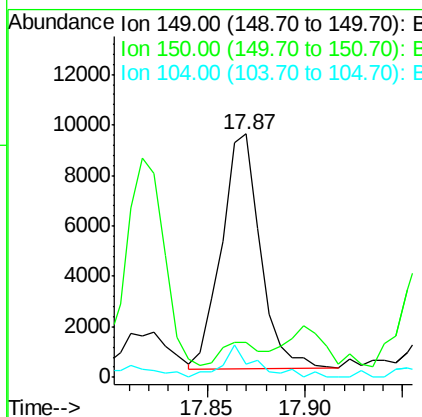
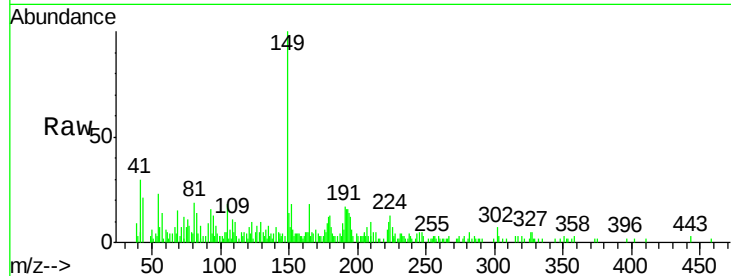




#76
Di-n-butylphthalate
Concen: 1.10 ng/ul
RT: 17.87 min Scan# 2584
Delta R.T. 0.02 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

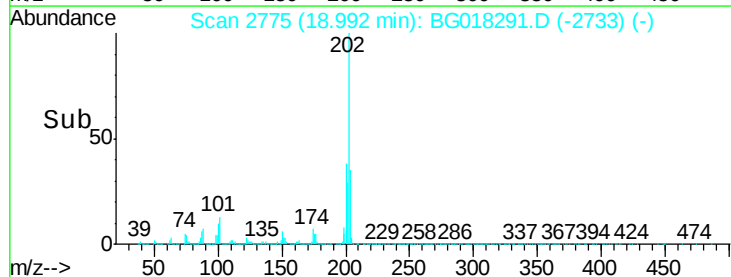
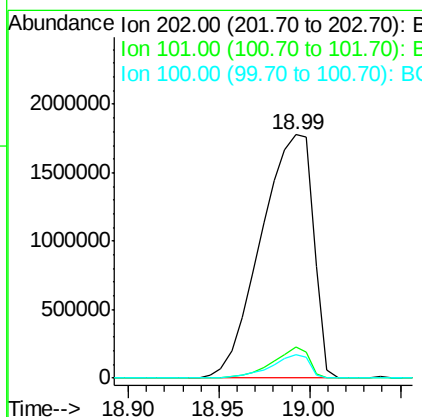
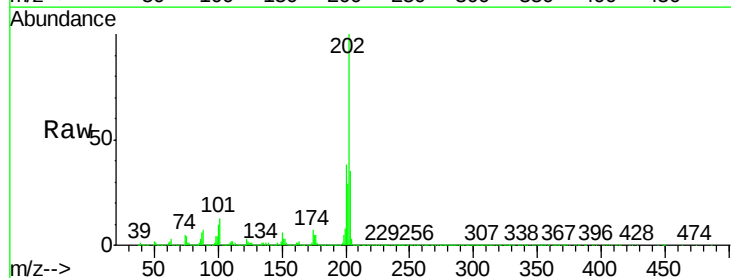
Instrument :
BNA_G
ClientSampleId :
C01J2RE

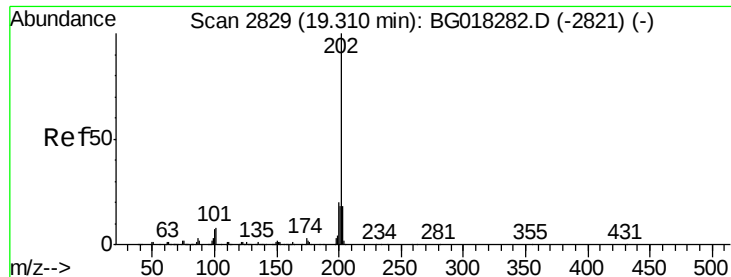
Tgt Ion:149 Resp: 12836
Ion Ratio Lower Upper
149 100
150 14.4 7.4 11.2#
104 5.2 5.5 8.3#



#77
Fluoranthene
Concen: 326.18 ng/ul
RT: 18.99 min Scan# 2775
Delta R.T. 0.05 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

Tgt Ion:202 Resp: 3583864
Ion Ratio Lower Upper
202 100
101 12.6 6.2 9.2#
100 9.6 4.6 6.8#





#80

Pyrene

Concen: 227.03 ng/ul

RT: 19.36 min Scan# 2837

Delta R.T. 0.05 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

Instrument :

BNA_G

ClientSampleId :

C01J2RE

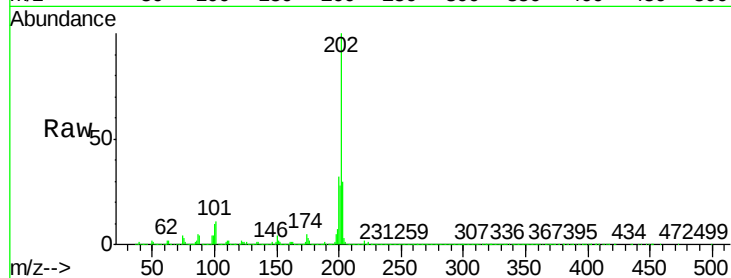
Tgt Ion:202 Resp: 2911540

Ion Ratio Lower Upper

202 100

101 11.4 6.2 9.2#

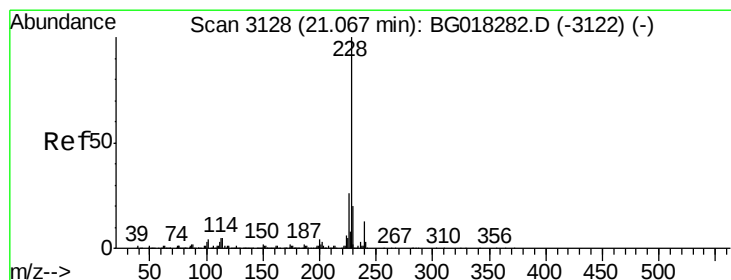
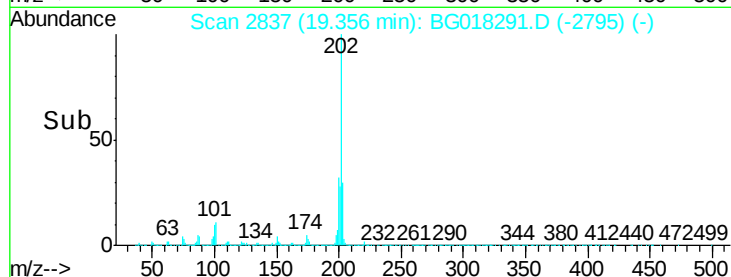
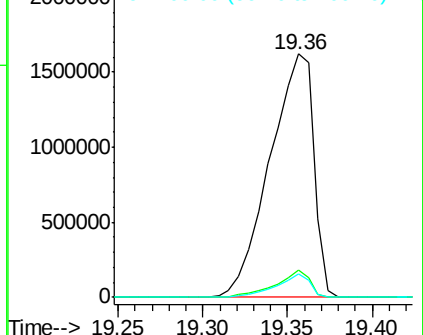
100 9.7 4.6 7.0#



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): E



#83

Benzo(a)anthracene

Concen: 190.09 ng/ul

RT: 21.11 min Scan# 3135

Delta R.T. 0.04 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

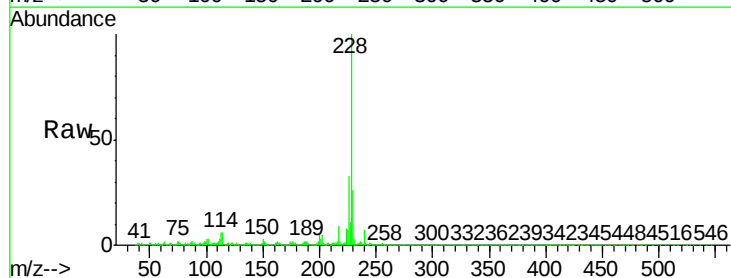
Tgt Ion:228 Resp: 1850540

Ion Ratio Lower Upper

228 100

229 25.6 16.3 24.5#

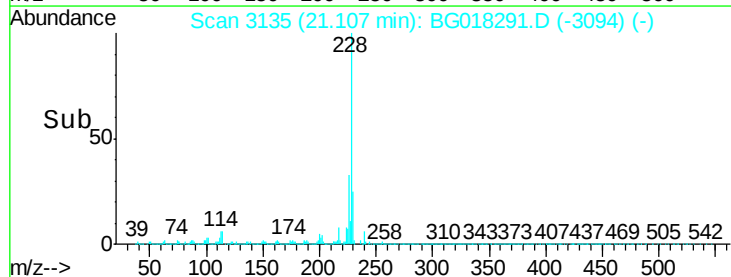
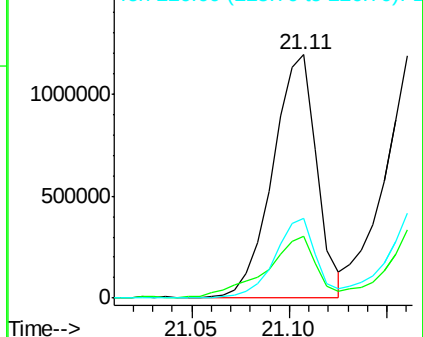
226 32.7 21.2 31.8#

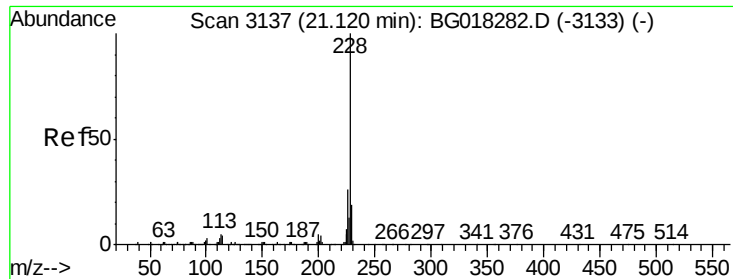


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#85

Chrysene

Concen: 187.28 ng/ul

RT: 21.16 min Scan# 3144

Delta R.T. 0.04 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

Instrument :

BNA_G

ClientSampleId :

C01J2RE

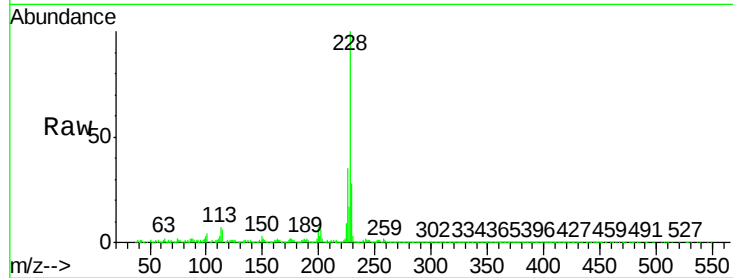
Tgt Ion:228 Resp: 1638135

Ion Ratio Lower Upper

228 100

226 35.1 23.0 34.6#

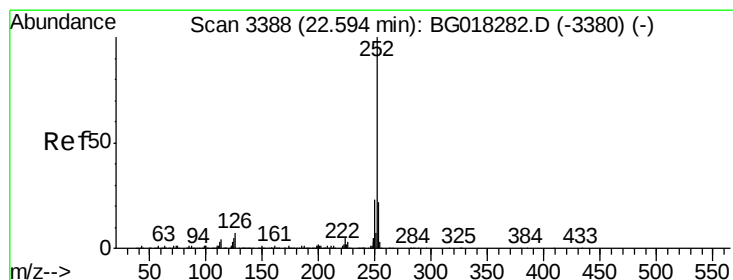
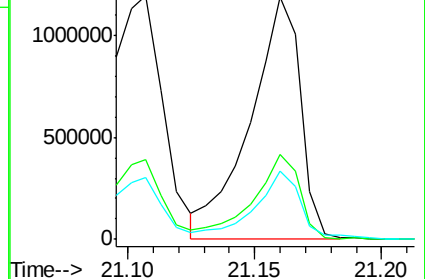
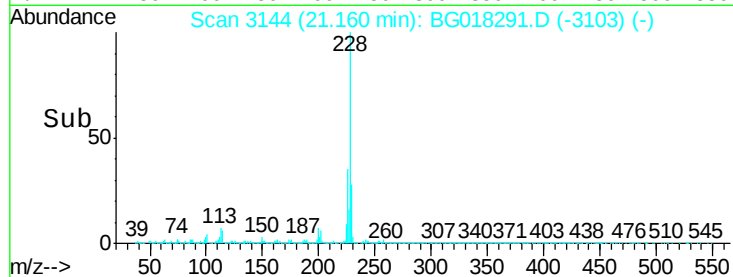
229 28.4 15.9 23.9#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#88

Benzo(b)fluoranthene

Concen: 256.98 ng/ul

RT: 22.66 min Scan# 3400

Delta R.T. 0.07 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

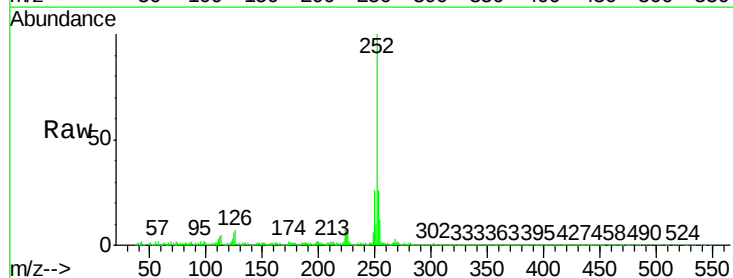
Tgt Ion:252 Resp: 2387932

Ion Ratio Lower Upper

252 100

253 26.1 18.1 27.1

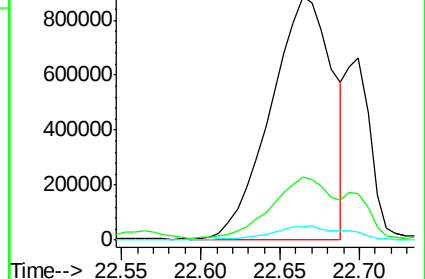
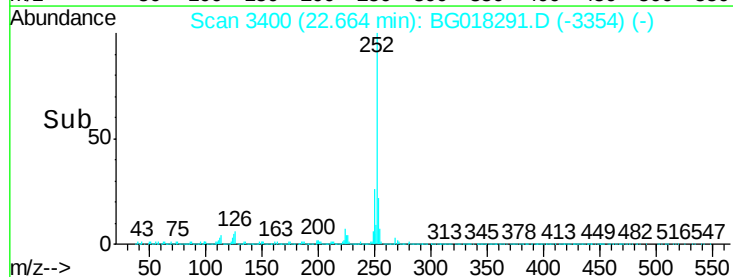
125 5.6 3.1 4.7#

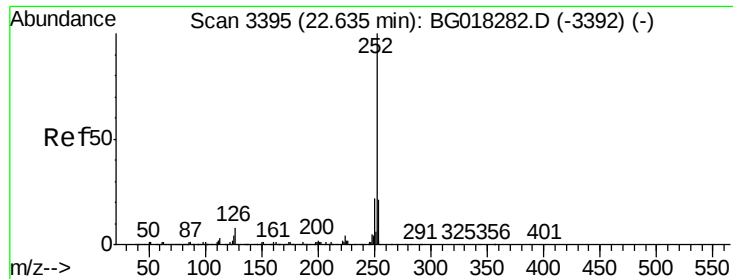


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 79.62 ng/ul

RT: 22.70 min Scan# 3406

Delta R.T. 0.06 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

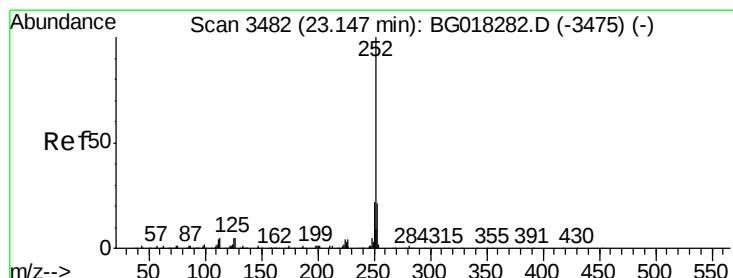
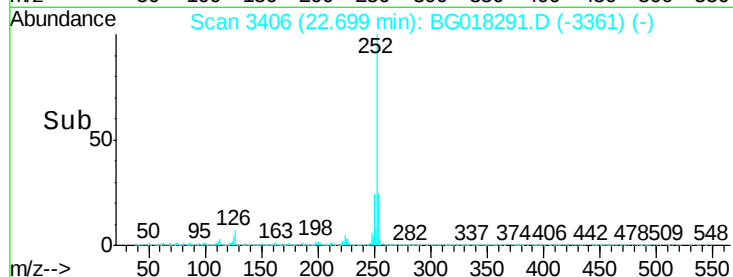
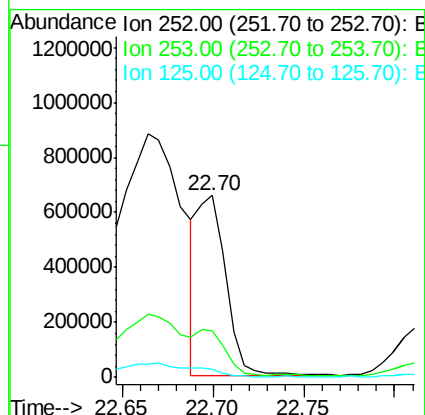
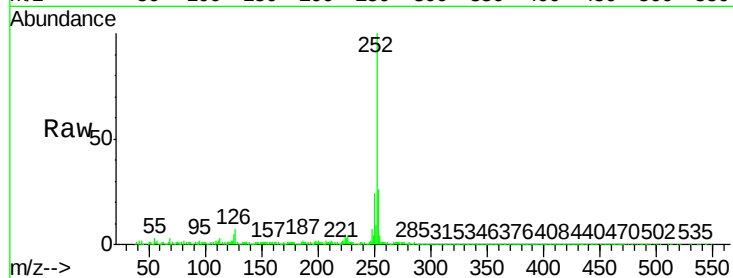
Instrument :

BNA_G

ClientSampleId :

C01J2RE

Tgt Ion:	252	Resp:	709487
Ion Ratio	Lower	Upper	
252	100		
253	25.8	16.4	24.6#
125	4.8	3.4	5.2



#91

Benzo(a)pyrene

Concen: 192.78 ng/ul

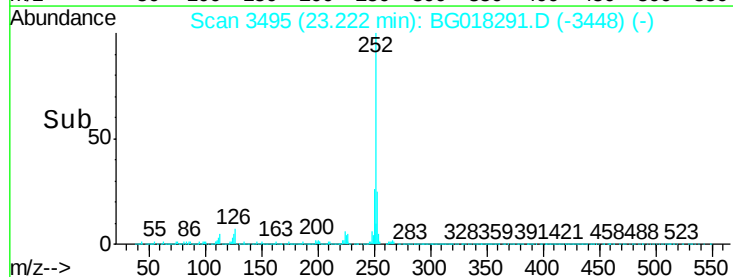
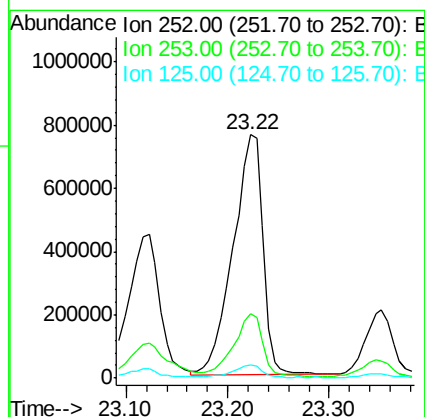
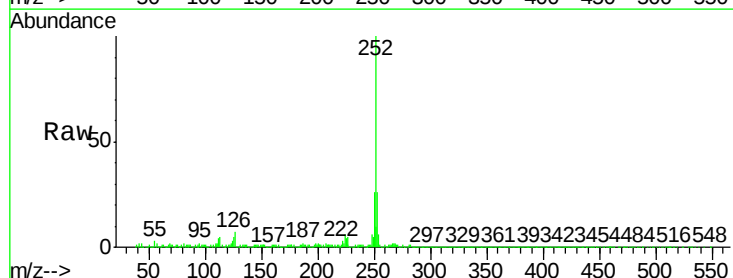
RT: 23.22 min Scan# 3495

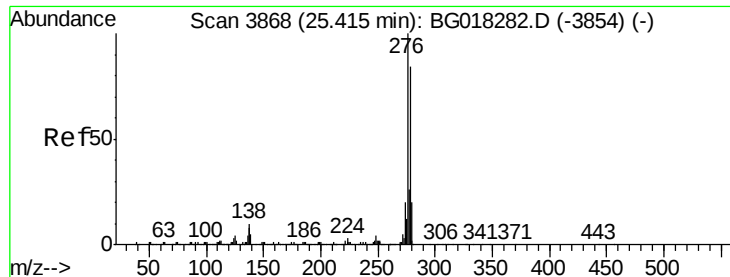
Delta R.T. 0.08 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

Tgt Ion:	252	Resp:	1564073
Ion Ratio	Lower	Upper	
252	100		
253	26.2	18.9	28.3
125	5.4	3.2	4.8#





#92

Indeno(1,2,3-cd)pyrene

Concen: 73.37 ng/ul

RT: 25.53 min Scan# 3887

Delta R.T. 0.11 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

Instrument :

BNA_G

ClientSampleId :

C01J2RE

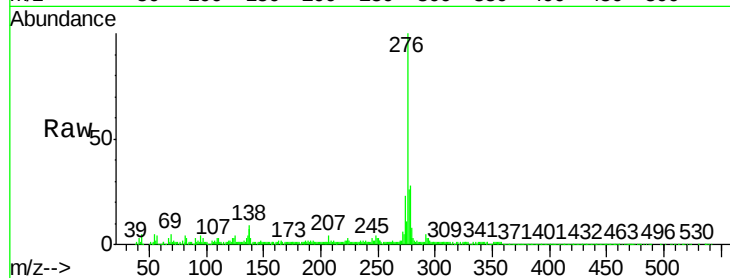
Tgt Ion:276 Resp: 736470

Ion Ratio Lower Upper

276 100

138 8.9 8.2 12.4

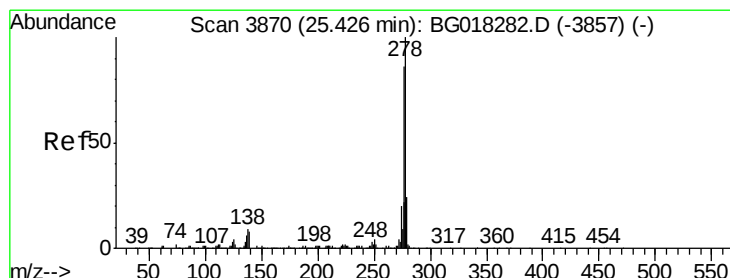
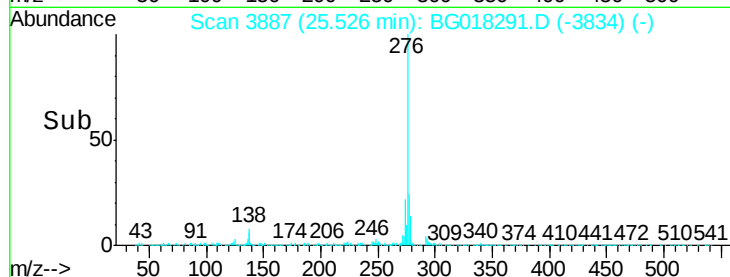
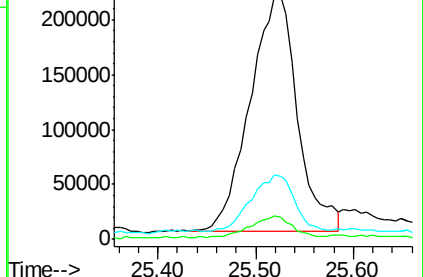
277 25.8 20.1 30.1



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: 20.78 ng/ul

RT: 25.52 min Scan# 3886

Delta R.T. 0.09 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

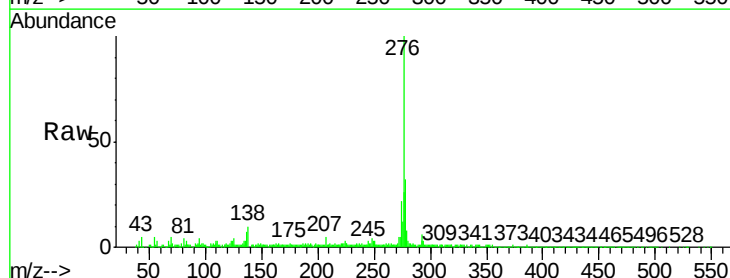
Tgt Ion:278 Resp: 182977

Ion Ratio Lower Upper

278 100

139 0.0 5.8 8.8#

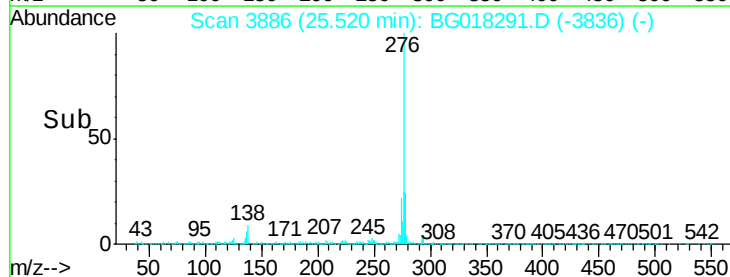
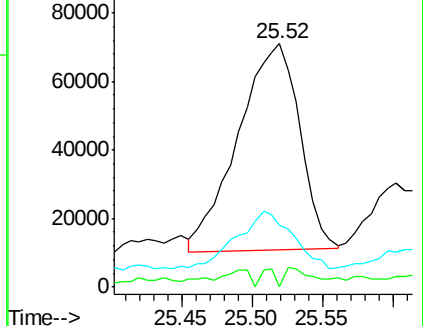
279 25.3 19.8 29.6

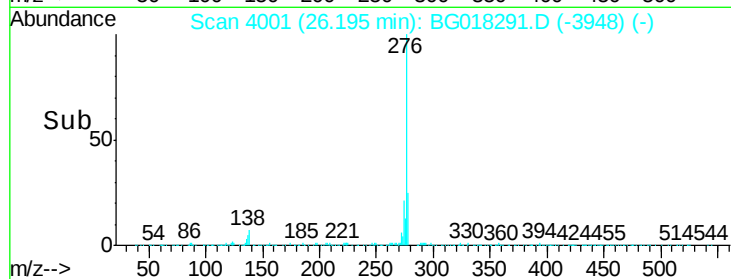
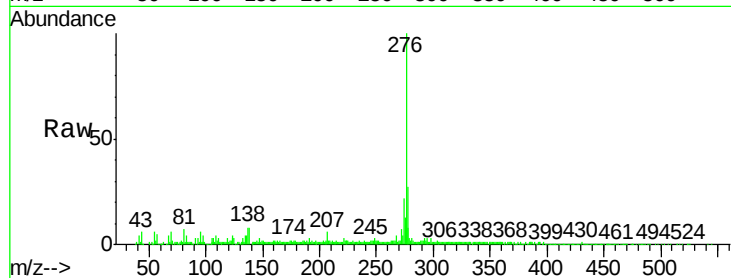
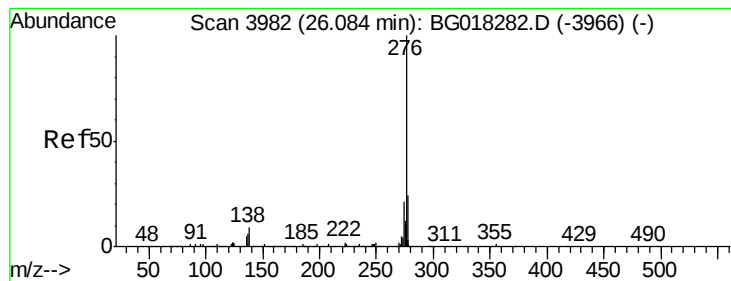


Abundance Ion 278.00 (277.70 to 278.70): E

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: 67.40 ng/ul

RT: 26.20 min Scan# 4001

Delta R.T. 0.11 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

Instrument :

BNA_G

ClientSampleId :

C01J2RE

Tgt Ion:276 Resp: 549005

Ion Ratio Lower Upper

276 100

138 7.9 6.0 9.0

277 27.2 21.1 31.7

