

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 06:06:38 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	15.30	200	6829m	5.03	ng/ul	0.03
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	23.16	264	153729m	19.50	ng/ul	0.06

Target Compounds

						Ovalue
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	16.95	178	3269807m	330.09	ng/ul	
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	21.11	228	1875471m	214.42	ng/ul	
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

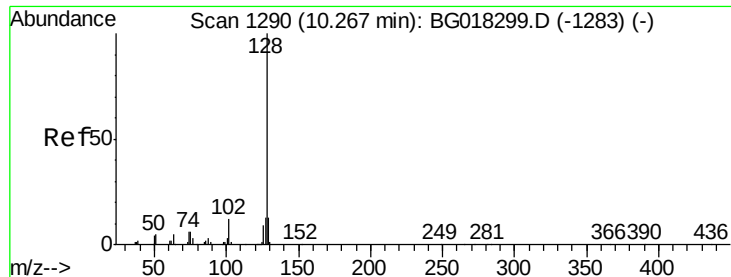
Data Path : Z:\HPCHEM1\BNA G\DATA\BG080515\
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Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 03:42:27 2015
Response via : Initial Calibration

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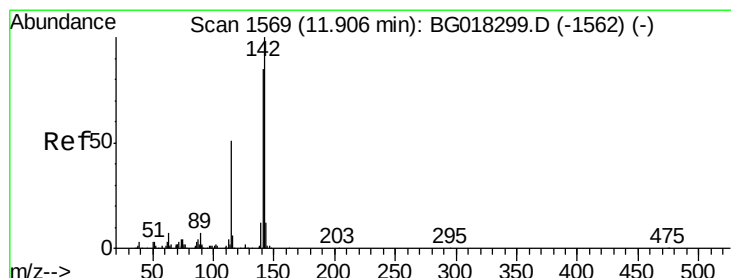
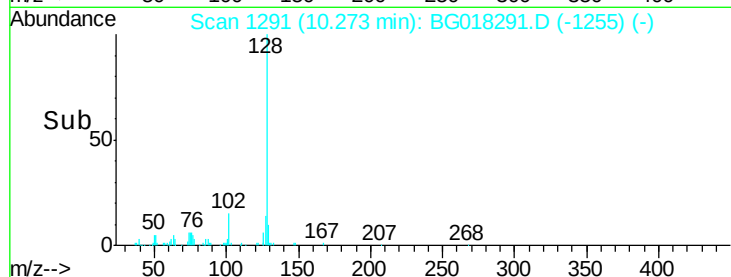
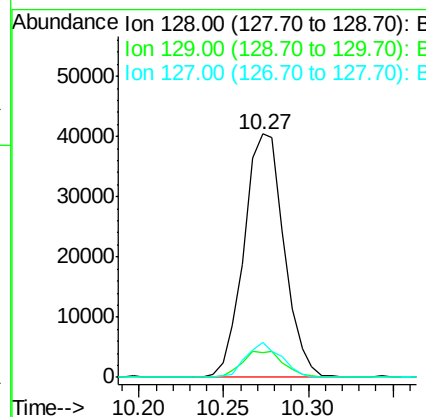
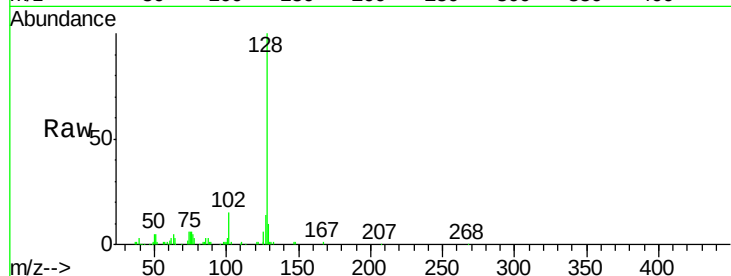
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#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

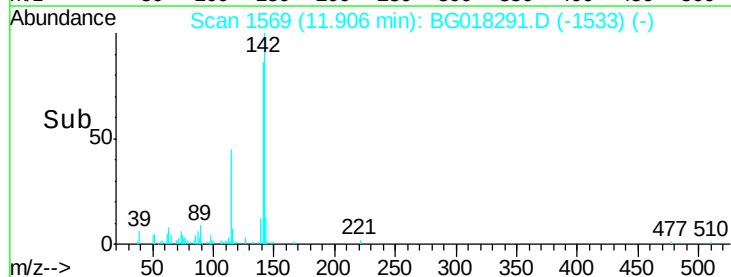
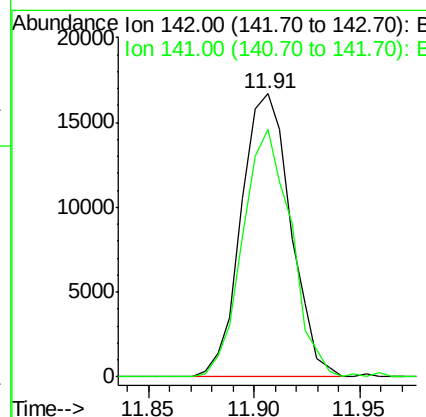
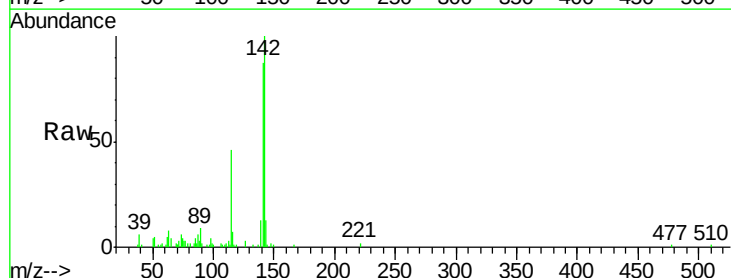
Instrument :
BNA_G
ClientSampleId :
C01J2RE

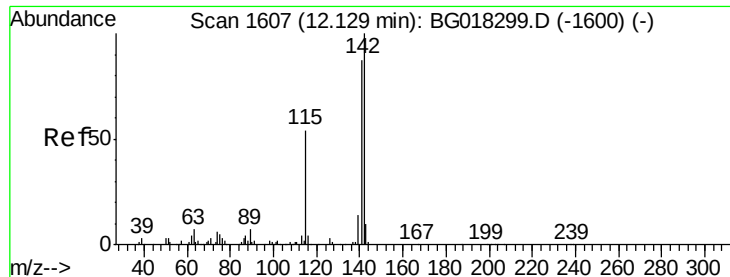
Tot Ion:128 Resp: 67034
Ion Ratio Lower Upper
128 100
129 10.3 7.8 11.6
127 14.1 10.2 15.4



#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

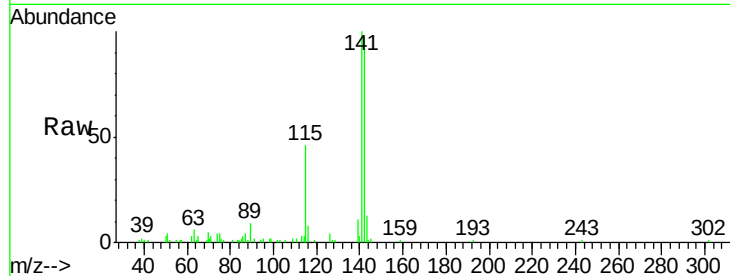




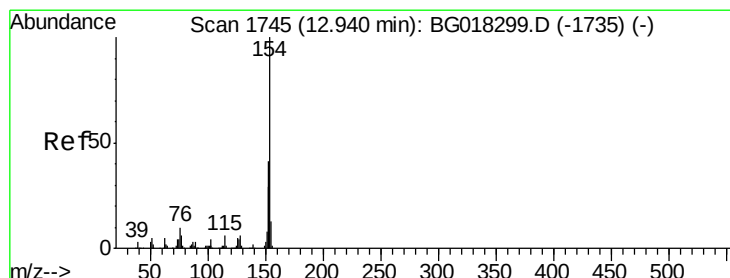
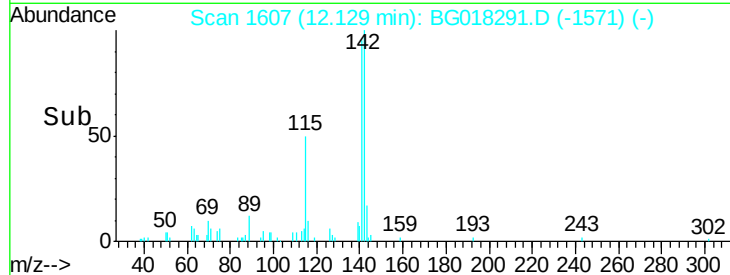
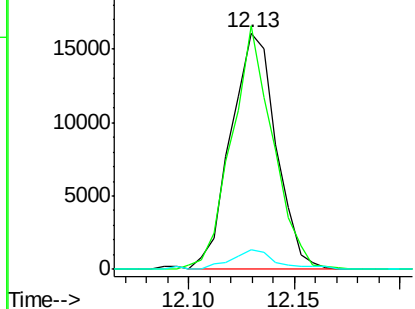
#35
 1-Methylnaphthalene
 Concen: 3.01 ng/ul
 RT: 12.13 min Scan# 1607
 Delta R.T. 0.01 min
 Lab File: BG018291.D
 Acq: 6 Aug 2015 3:16

Instrument :
 BNA_G
 ClientSampleId :
 C01J2RE

Tot Ion	Ratio	Lower	Upper
142	100		
141	103.1	69.0	103.4
116	8.2	4.2	6.4

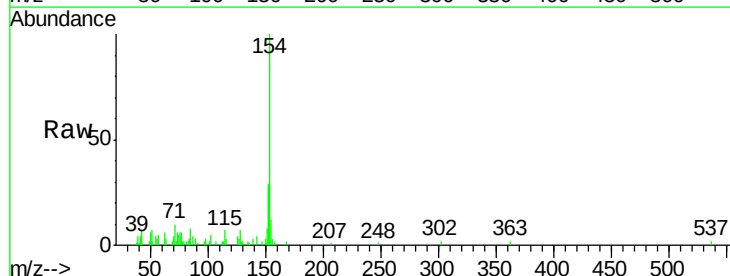


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 116.00 (115.70 to 116.70): E

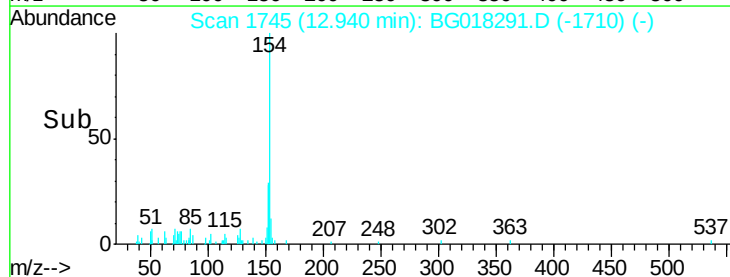
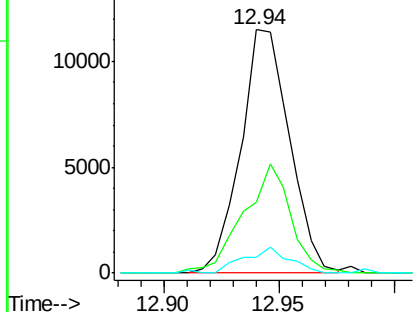


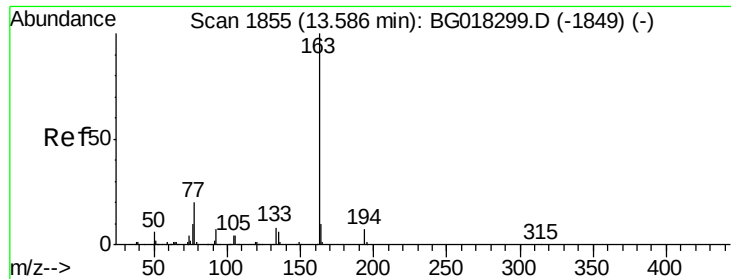
#41
 1,1'-Biphenyl
 Concen: 1.96 ng/ul
 RT: 12.94 min Scan# 1745
 Delta R.T. 0.01 min
 Lab File: BG018291.D
 Acq: 6 Aug 2015 3:16

Tgt Ion	Ratio	Lower	Upper
154	100		
153	28.8	33.4	50.0
76	6.3	8.6	12.8



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BG





#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

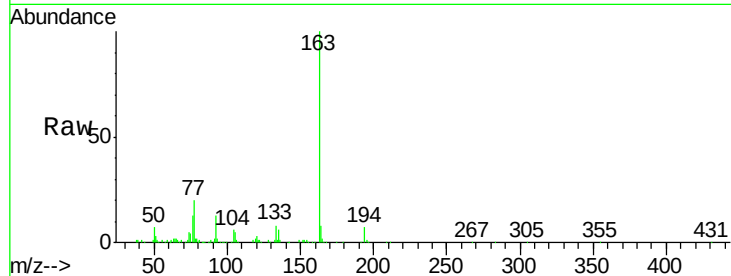
Tot Ion:163 Resp: 76574

Ion Ratio Lower Upper

163 100

194 6.8 5.4 8.2

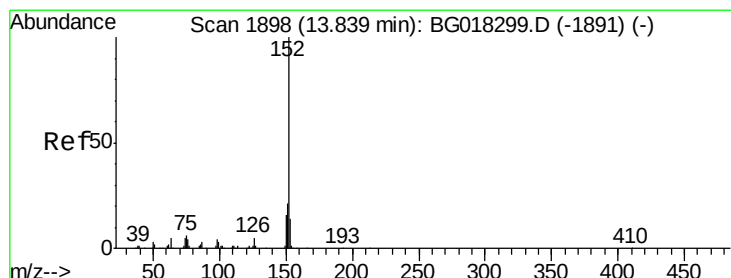
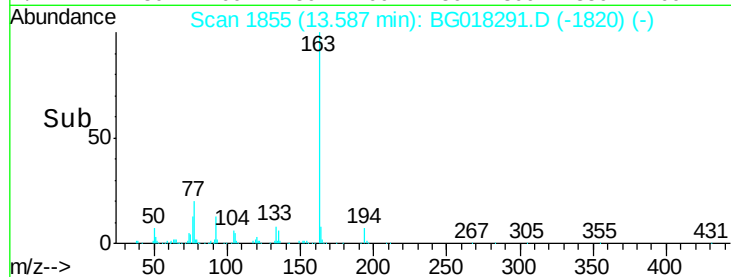
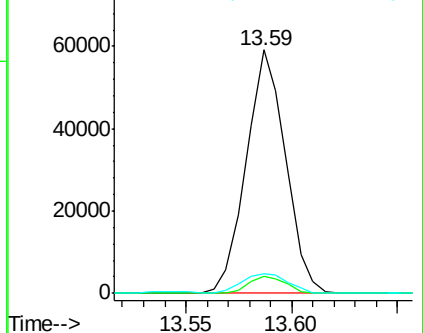
164 8.2 7.8 11.8



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

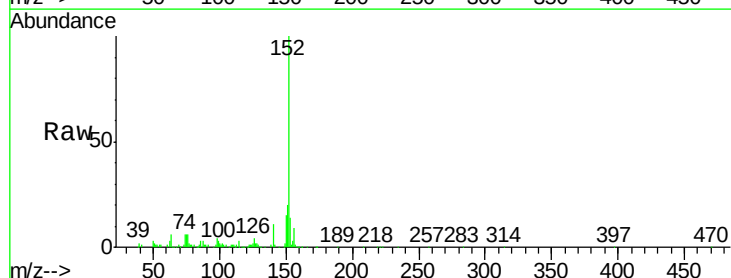
Tgt Ion:152 Resp: 137987

Ion Ratio Lower Upper

152 100

151 20.0 16.5 24.7

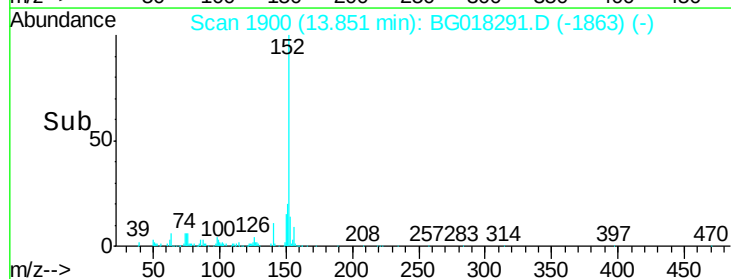
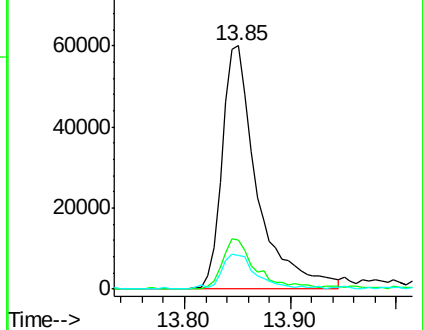
153 13.7 9.8 14.6

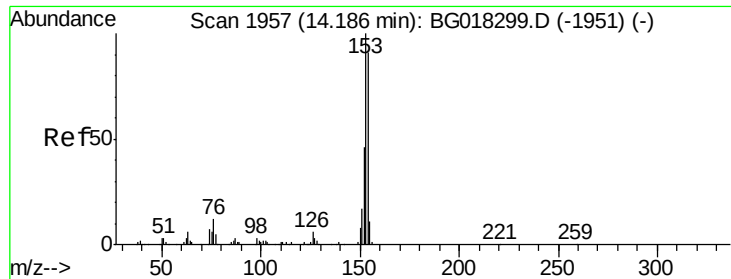


Abundance Ion 152.00 (151.70 to 152.70): E

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

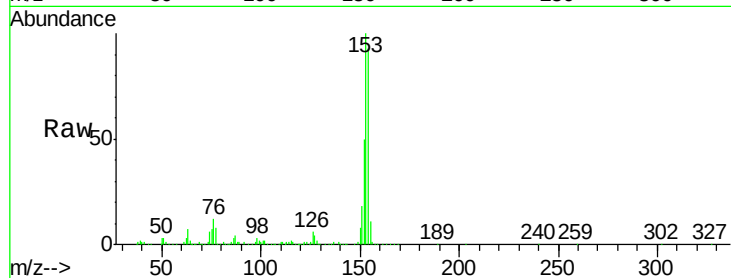
Tot Ion:153 Resp: 119533

Ion Ratio Lower Upper

153 100

152 49.9 39.0 58.4

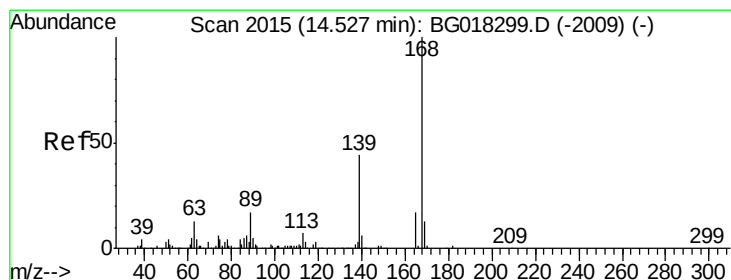
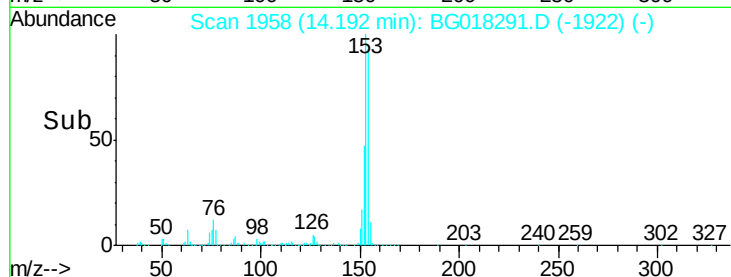
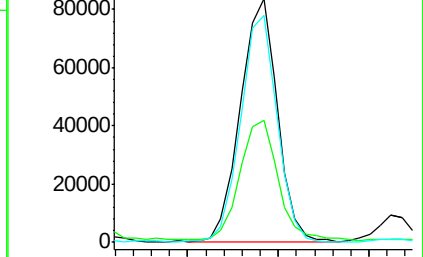
154 93.1 77.4 116.2



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

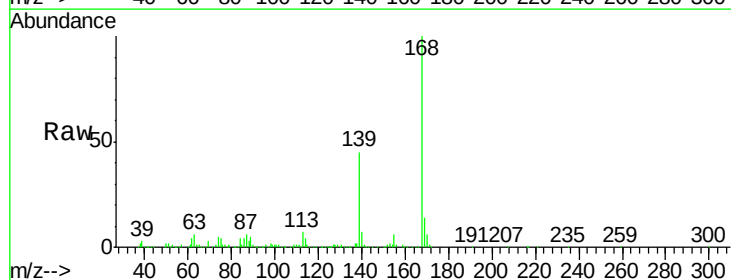
Acq: 6 Aug 2015 3:16

Tgt Ion:168 Resp: 221557

Ion Ratio Lower Upper

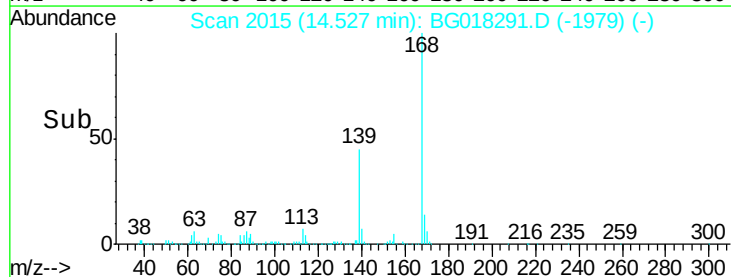
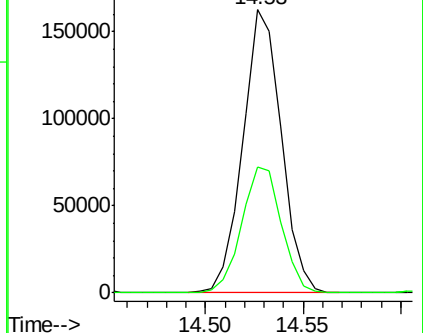
168 100

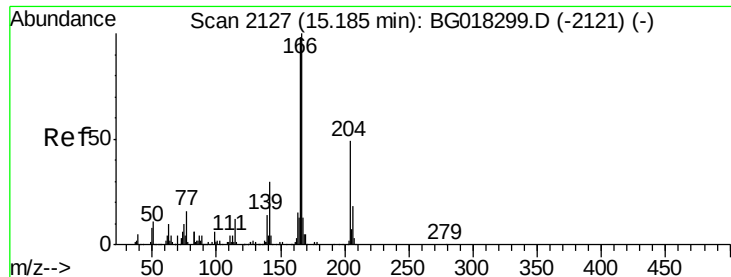
139 44.6 37.1 55.7



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

Instrument :

BNA_G

ClientSampleId :

C01J2RE

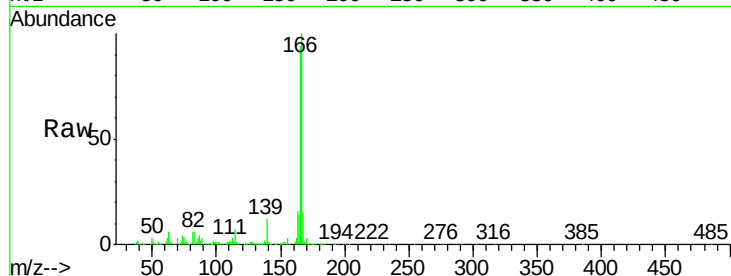
Tot Ion:166 Resp: 293788

Ion Ratio Lower Upper

166 100

165 93.6 72.4 108.6

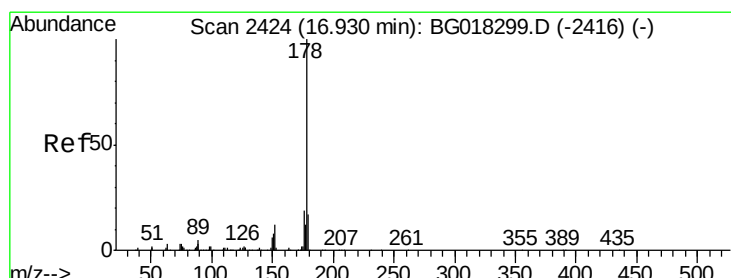
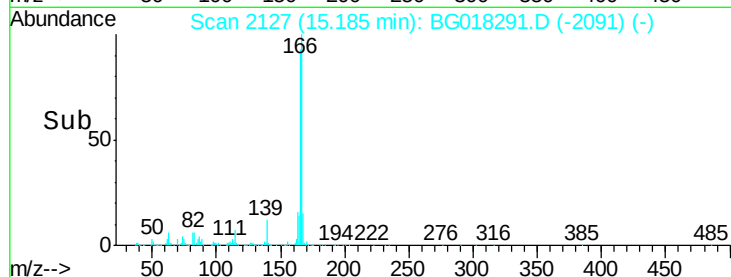
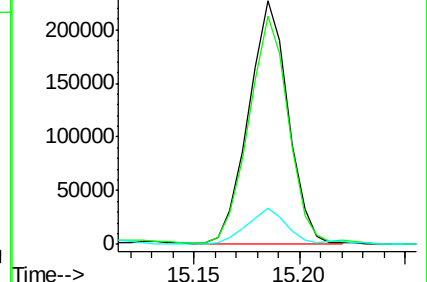
167 15.1 11.4 17.0



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: 330.09 ng/ul m

RT: 16.95 min Scan# 2428

Delta R.T. 0.04 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

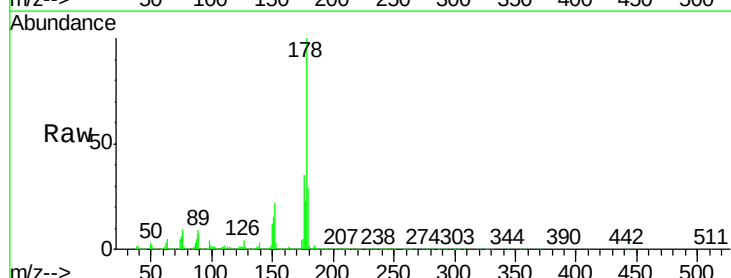
Tgt Ion:178 Resp: 3269807

Ion Ratio Lower Upper

178 100

179 29.4 12.2 18.4#

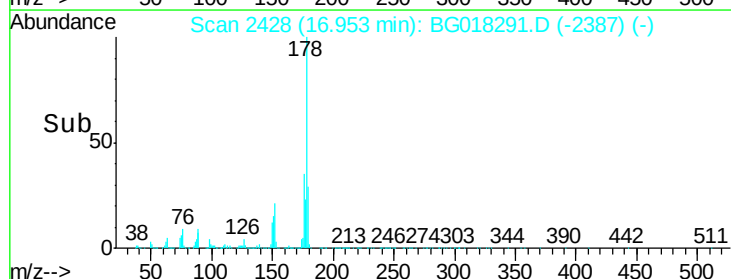
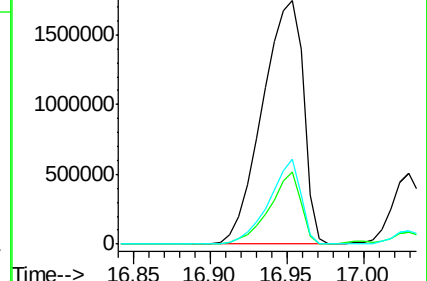
176 34.8 14.5 21.7#

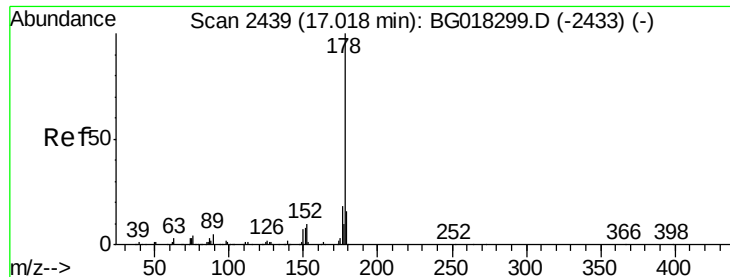


Abundance Ion 178.00 (177.70 to 178.70): E

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

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BNA_G

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C01J2RE

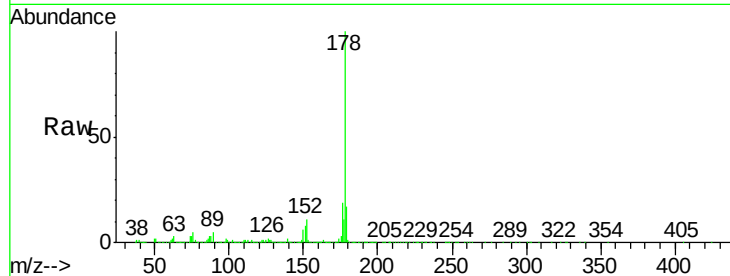
Tot Ion:178 Resp: 675453

Ion Ratio Lower Upper

178 100

179 16.8 12.2 18.4

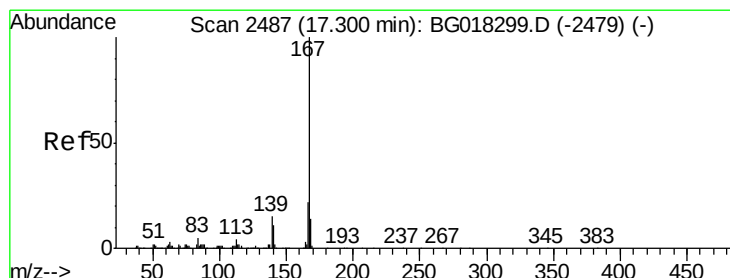
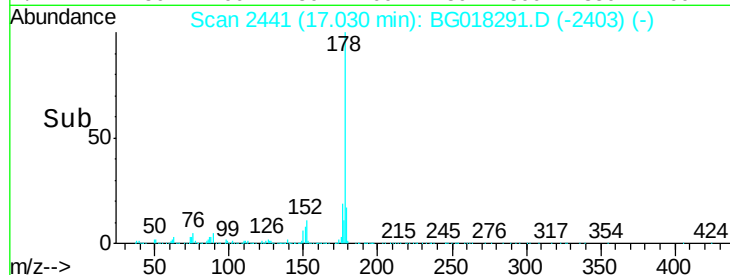
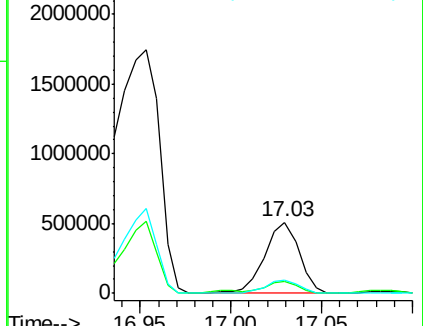
176 18.9 15.3 22.9



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

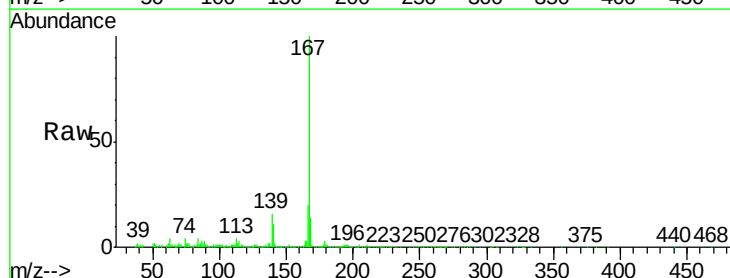
Tgt Ion:167 Resp: 198371

Ion Ratio Lower Upper

167 100

166 20.3 17.8 26.8

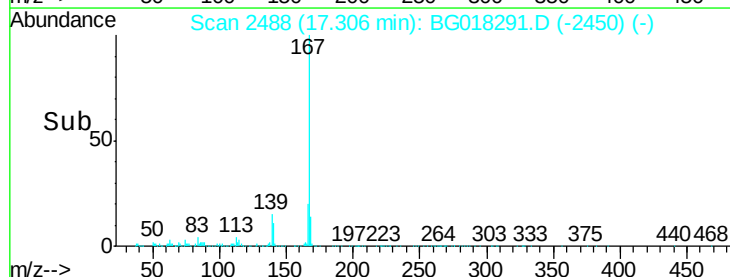
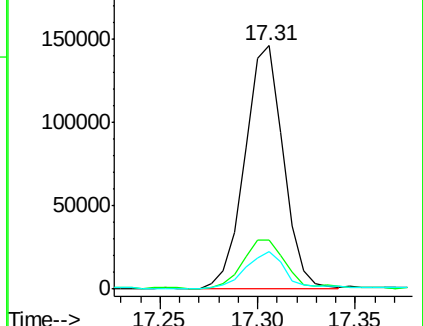
139 15.6 10.6 16.0

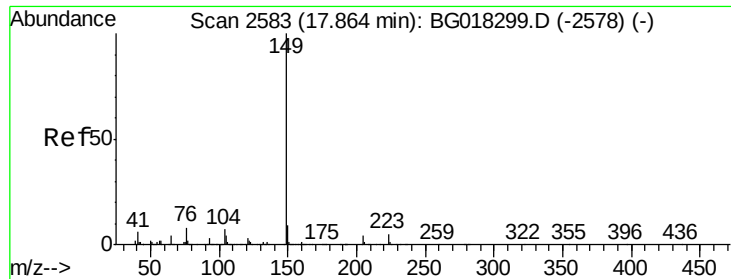


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

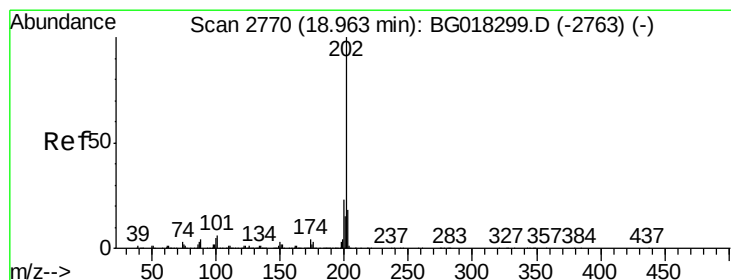
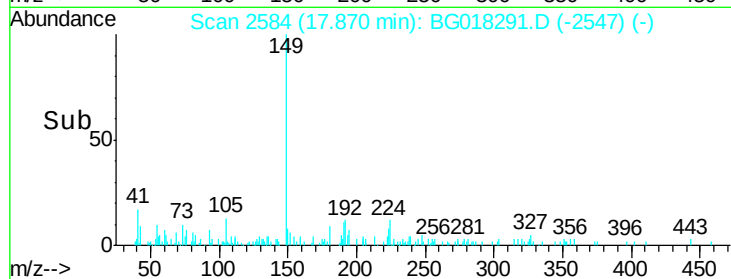
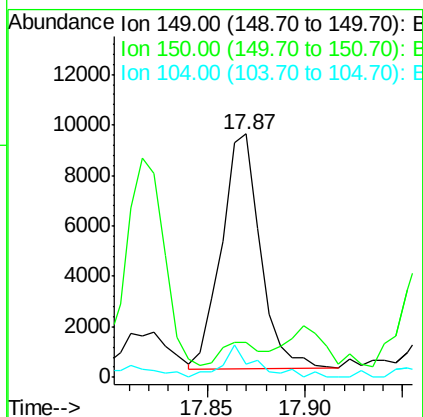
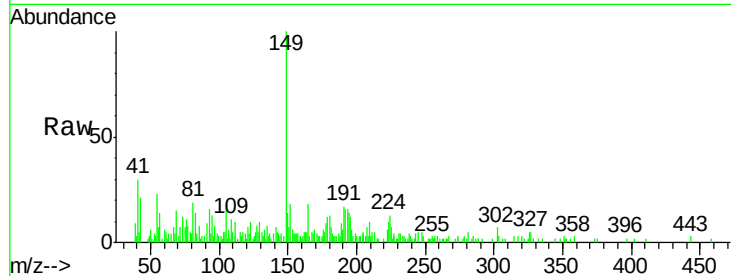




#76
Di-n-butylphthalate
Concen: 1.10 ng/ul
RT: 17.87 min Scan# 2584
Delta R.T. 0.02 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

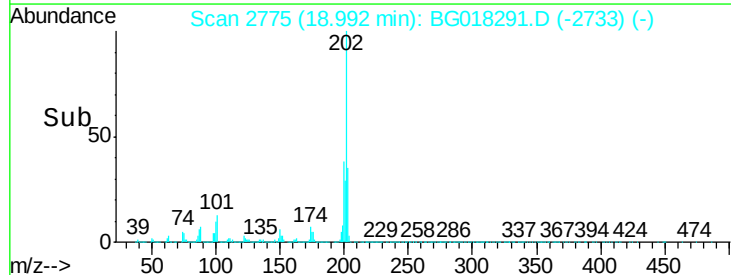
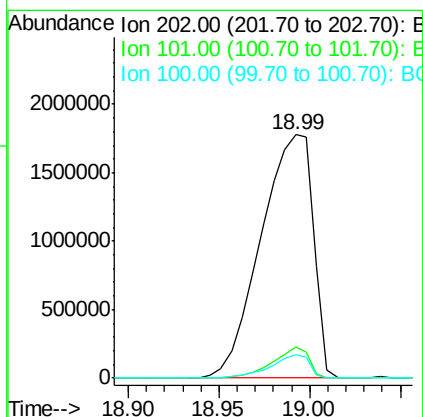
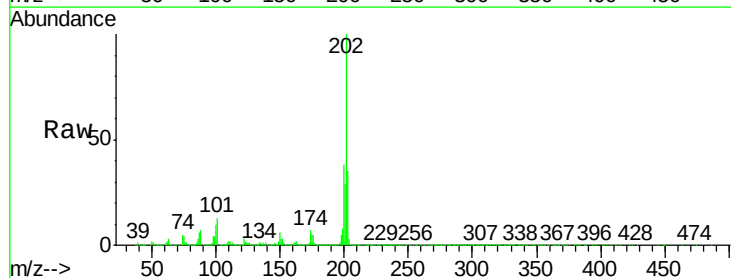
Instrument :
BNA_G
ClientSampleId :
C01J2RE

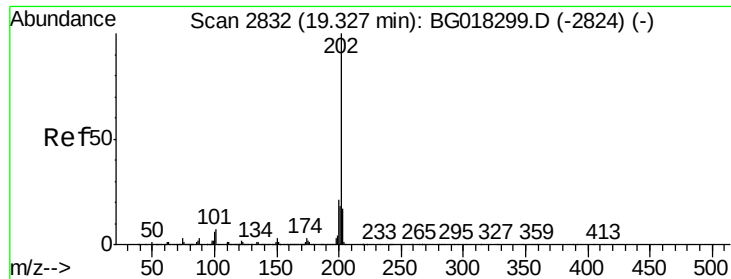
Tot Ion:149 Resp: 12836
Ion Ratio Lower Upper
149 100
150 14.4 7.4 11.2#
104 5.2 5.5 8.3#



#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#

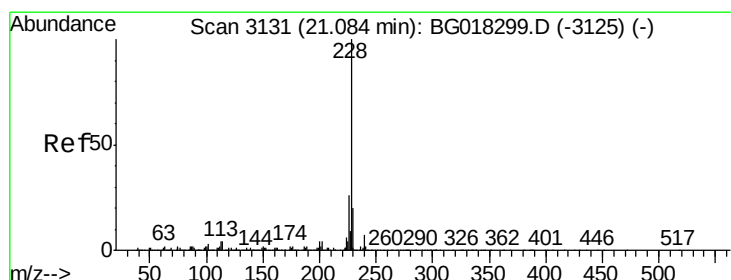
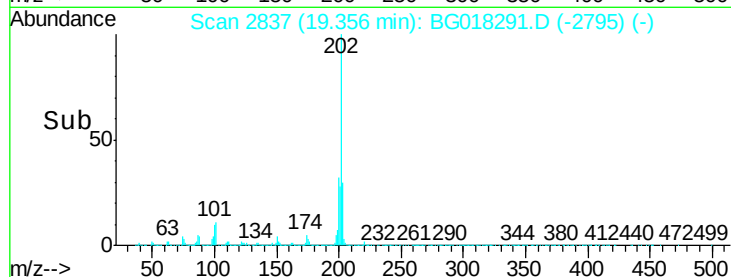
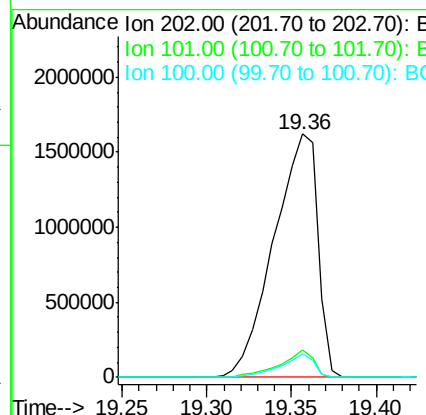
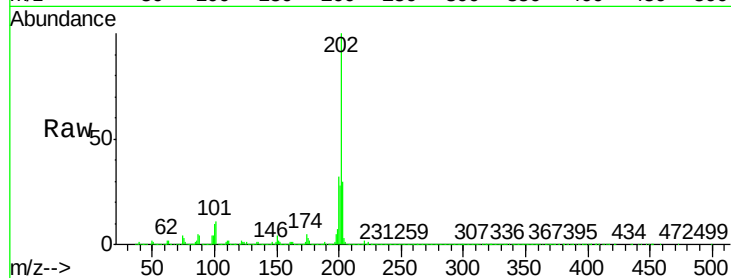




#80
Pvrene
Concen: 227.03 ng/ul
RT: 19.36 min Scan# 2837
Delta R.T. 0.05 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

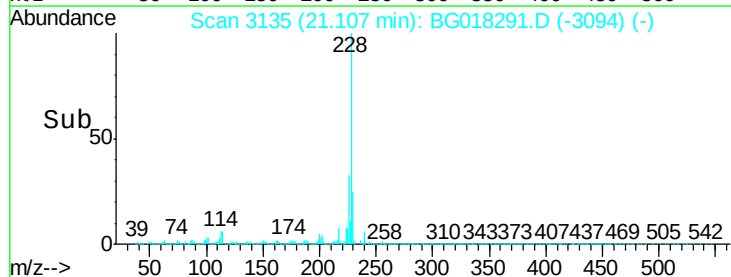
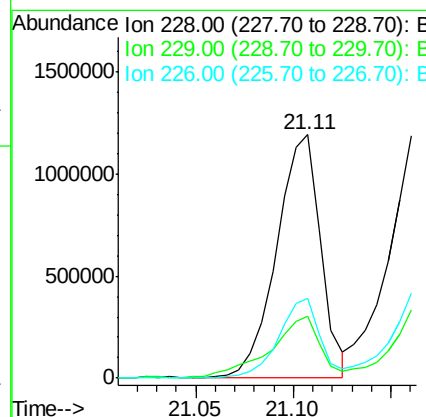
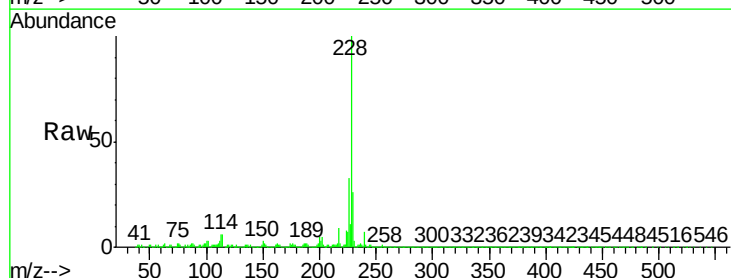
Instrument :
BNA_G
ClientSampleId :
C01J2RE

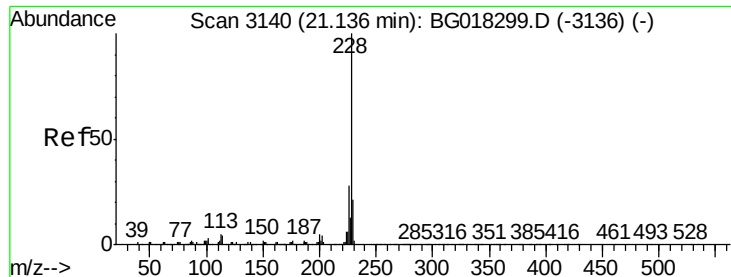
Tot Ion:202 Resp: 2911540
Ion Ratio Lower Upper
202 100
101 11.4 6.2 9.2#
100 9.7 4.6 7.0#



#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#





#85

Chrysene

Concen: 214.42 ng/ul m

RT: 21.11 min Scan# 3135

Delta R.T. -0.01 min

Lab File: BG018291.D

Acq: 6 Aug 2015 3:16

Instrument :

BNA_G

ClientSampleId :

C01J2RE

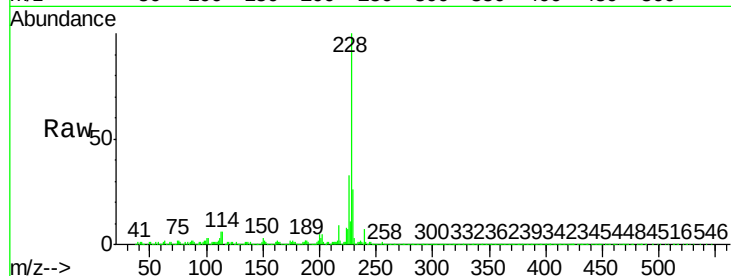
Tot Ion:228 Resp: 1875471

Ion	Ratio	Lower	Upper
228	100		
226	32.7	23.0	34.6
229	25.6	15.9	23.9

228 100

226 32.7 23.0 34.6

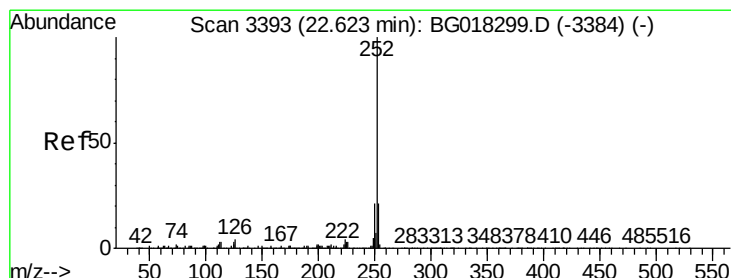
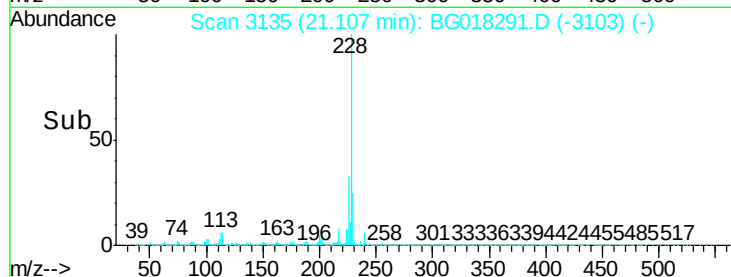
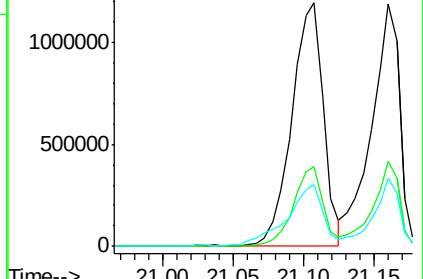
229 25.6 15.9 23.9



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

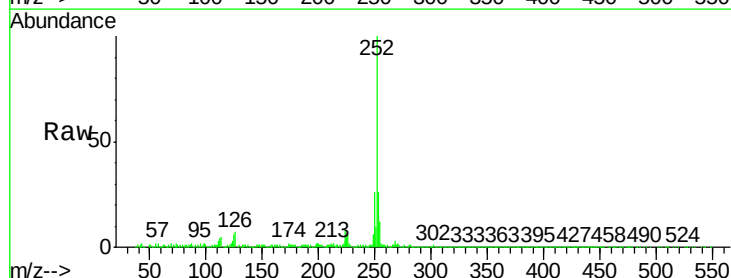
Tgt Ion:252 Resp: 2387932

Ion	Ratio	Lower	Upper
252	100		
253	26.1	18.1	27.1
125	5.6	3.1	4.7

252 100

253 26.1 18.1 27.1

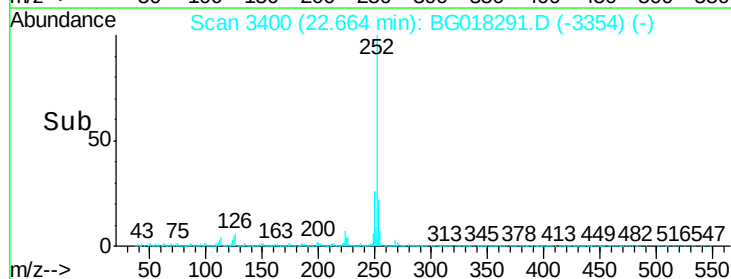
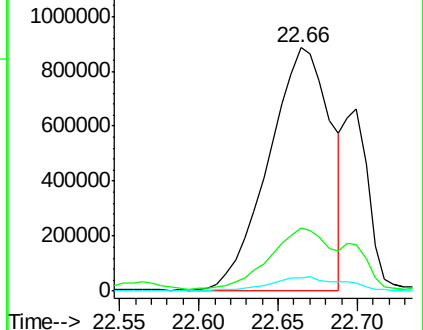
125 5.6 3.1 4.7

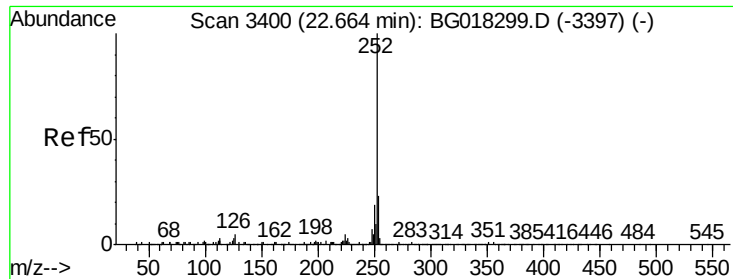


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

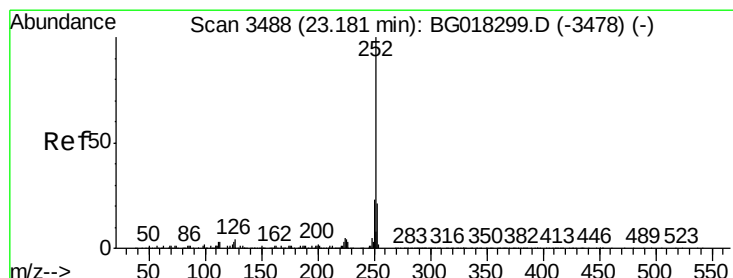
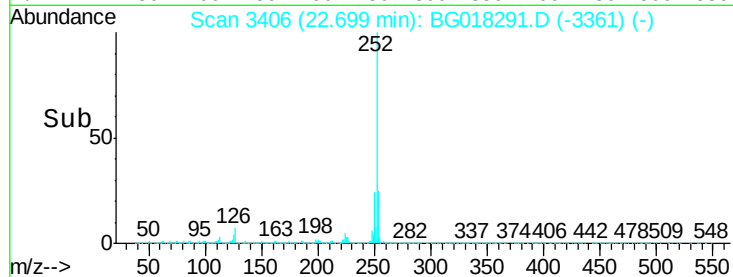
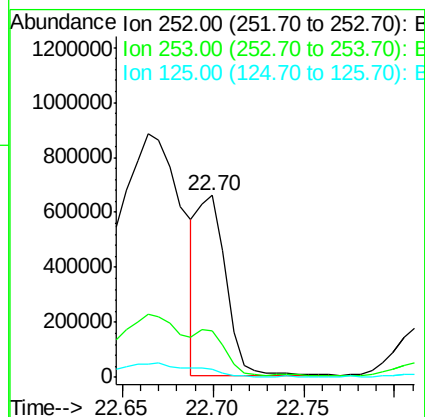
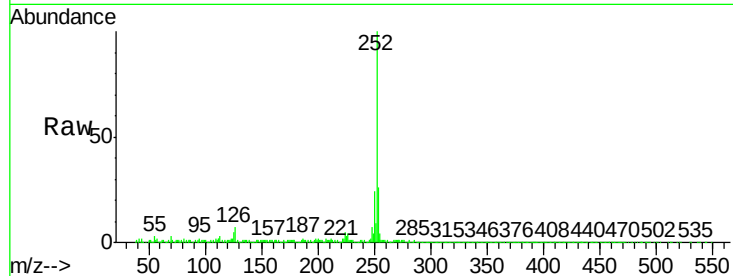




#89
Benzo(k)fluoranthene
Concen: 79.62 ng/ul
RT: 22.70 min Scan# 3406
Delta R.T. 0.06 min
Lab File: BG018291.D
Acq: 6 Aug 2015 3:16

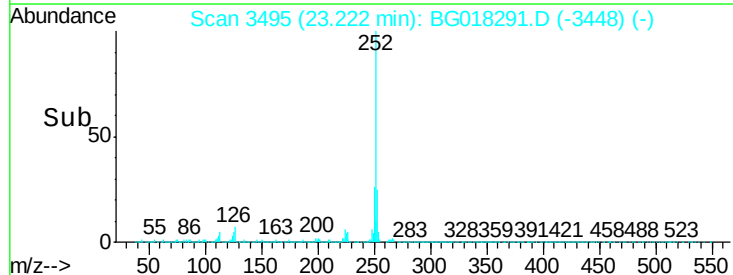
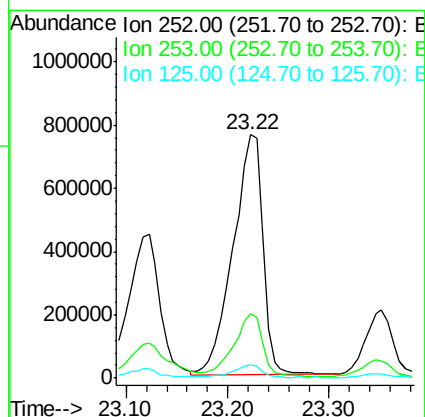
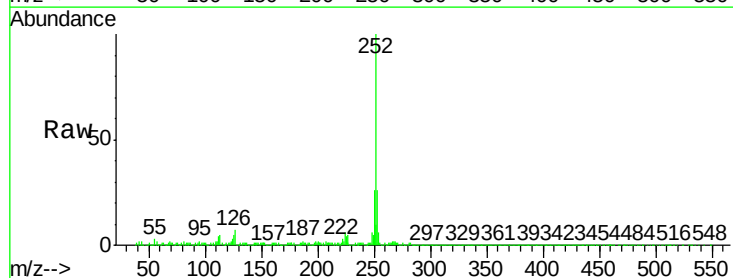
Instrument :
BNA_G
ClientSampleId :
C01J2RE

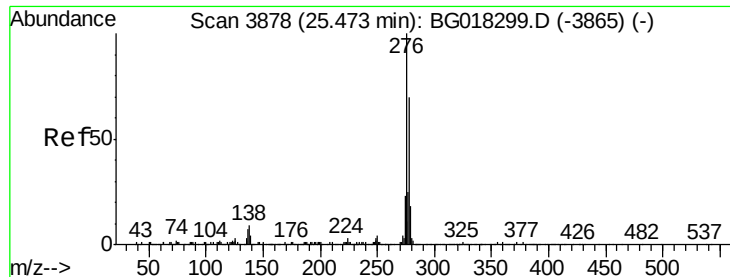
Tot Ion:252 Resp: 709487
Ion Ratio Lower Upper
252 100
253 25.8 16.4 24.6#
125 4.8 3.4 5.2



#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

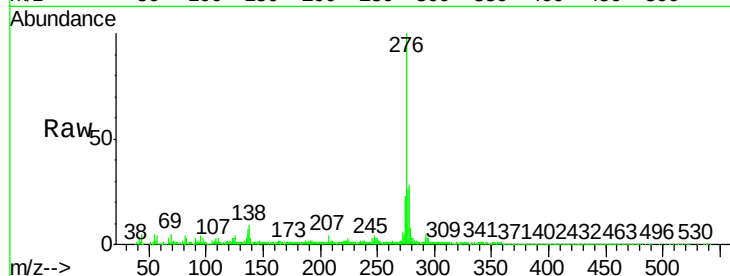
Tot Ion:276 Resp: 736470

Ion Ratio Lower Upper

276 100

138 8.9 8.2 12.4

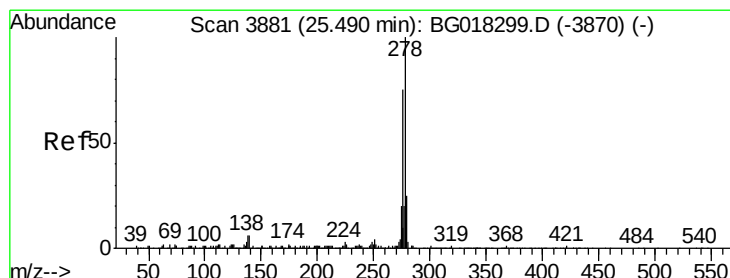
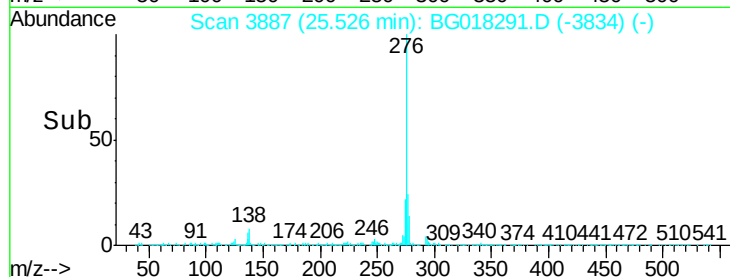
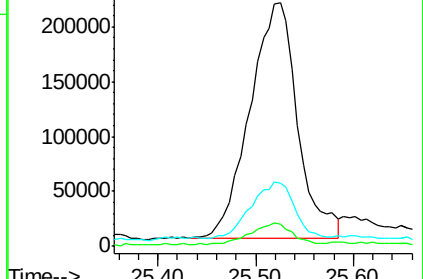
277 25.8 20.1 30.1



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

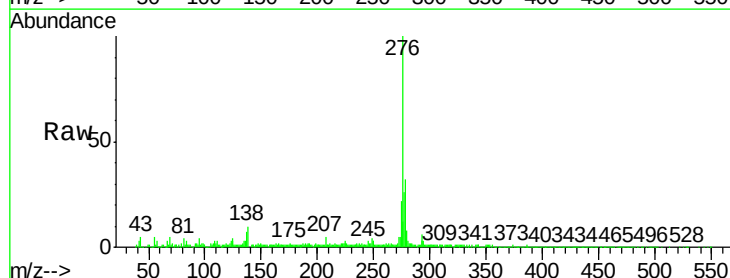
Tgt Ion:278 Resp: 182977

Ion Ratio Lower Upper

278 100

139 0.0 5.8 8.8#

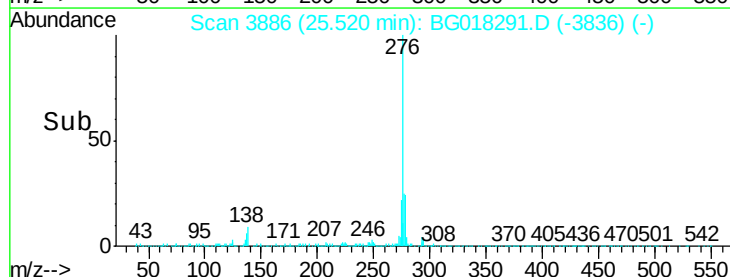
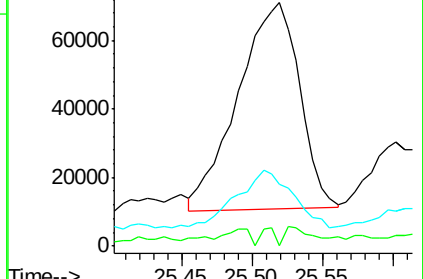
279 25.3 19.8 29.6

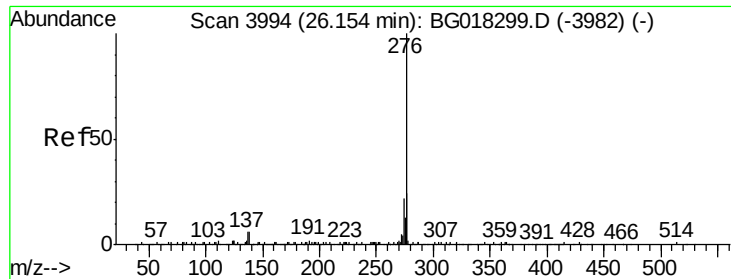


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#94
 Benzo(a,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

Tot Ion	Ratio	Lower	Upper
276	100		
138	7.9	6.0	9.0
277	27.2	21.1	31.7

