

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121515\
 Data File : BG020157.D
 Acq On : 14 Dec 2015 17:36
 Operator : UM/SJ
 Sample : G4787-23
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 G9BP4

Quant Time: Dec 15 11:26:03 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Dec 15 03:46:07 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	15438	20.00	ng/ul	0.00
18) Naphthalene-d8	10.92	136	71882	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.73	164	51292	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.47	188	129321	20.00	ng/ul	0.00
78) Chrysene-d12	21.75	240	142046	20.00	ng/ul	0.00
86) Perylene-d12	25.02	264	134469	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	1349	4.82	ng/uL	0.00
5) Phenol-d5	7.24	99	35447	26.04	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.41	67	22020	27.11	ng/ul	0.00
9) 2-Chlorophenol-d4	7.63	132	26433	26.70	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	32491	27.91	ng/ul	0.00
19) Nitrobenzene-d5	9.27	128	15135	27.01	ng/ul	0.00
22) 2-Nitrophenol-d4	9.99	143	18175	29.15	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.53	165	33598	26.60	ng/ul	0.00
29) 4-Chloroaniline-d4	11.05	131	39566	27.89	ng/ul	0.00
44) Dimethylphthalate-d6	14.13	166	145394	35.04	ng/ul	0.00
47) Acenaphthylene-d8	14.42	160	164813	34.14	ng/ul	0.00
52) 4-Nitrophenol-d4	14.91	143	24410	32.81	ng/ul	0.00
58) Fluorene-d10	15.72	176	135378	35.97	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	19300	25.17	ng/ul	0.00
71) Anthracene-d10	17.57	188	232548	39.03	ng/ul	0.00
79) Pyrene-d10	19.85	212	263916	39.86	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.79	264	275714	41.11	ng/ul	0.00

Target Compounds

						Qvalue
4) Benzaldehyde	7.23	77	28654	32.51	ng/ul	93
10) 2-Chlorophenol	7.66	128	2874	2.77	ng/ul	94
23) 2-Nitrophenol	10.02	139	20998	31.41	ng/ul	94
28) Naphthalene	10.96	128	22480	5.99	ng/ul	98
31) Hexachlorobutadiene	11.25	225	13771	14.24	ng/ul	100
33) 4-Chloro-3-methylphenol	12.18	107	12706	8.24	ng/ul	87
37) 1,2,4,5-Tetrachlorobenzene	12.93	216	12133	6.30	ng/ul#	90
39) 2,4,6-Trichlorophenol	13.16	196	17373	14.07	ng/ul	99
41) 1,1'-Biphenyl	13.57	154	86521	22.36	ng/ul	96
45) Dimethylphthalate	14.18	163	155643	36.73	ng/ul	99
46) 2,6-Dinitrotoluene	14.30	165	13934	15.90	ng/ul	92
53) 4-Nitrophenol	14.92	109	28084	39.24	ng/ul	93
54) Dibenzofuran	15.12	168	50386	9.82	ng/ul	97
64) 4,6-Dinitro-2-methylphenol	15.84	198	13353	16.22	ng/ul#	94
67) Hexachlorobenzene	16.77	284	14004	8.59	ng/ul	94
69) Pentachlorophenol	17.12	266	18759	19.08	ng/ul	94
70) Phenanthrene	17.51	178	186011	26.30	ng/ul	98
72) Anthracene	17.60	178	79082	11.02	ng/ul	98
76) Di-n-butylphthalate	18.42	149	127656	18.22	ng/ul	99
77) Fluoranthene	19.52	202	189504	22.92	ng/ul	99
80) Pyrene	19.88	202	198044	23.04	ng/ul	97
84) Bis(2-ethylhexyl)phthalate	21.62	149	103855	24.31	ng/ul	97
85) Chrysene	21.79	228	151739	19.44	ng/ul	98

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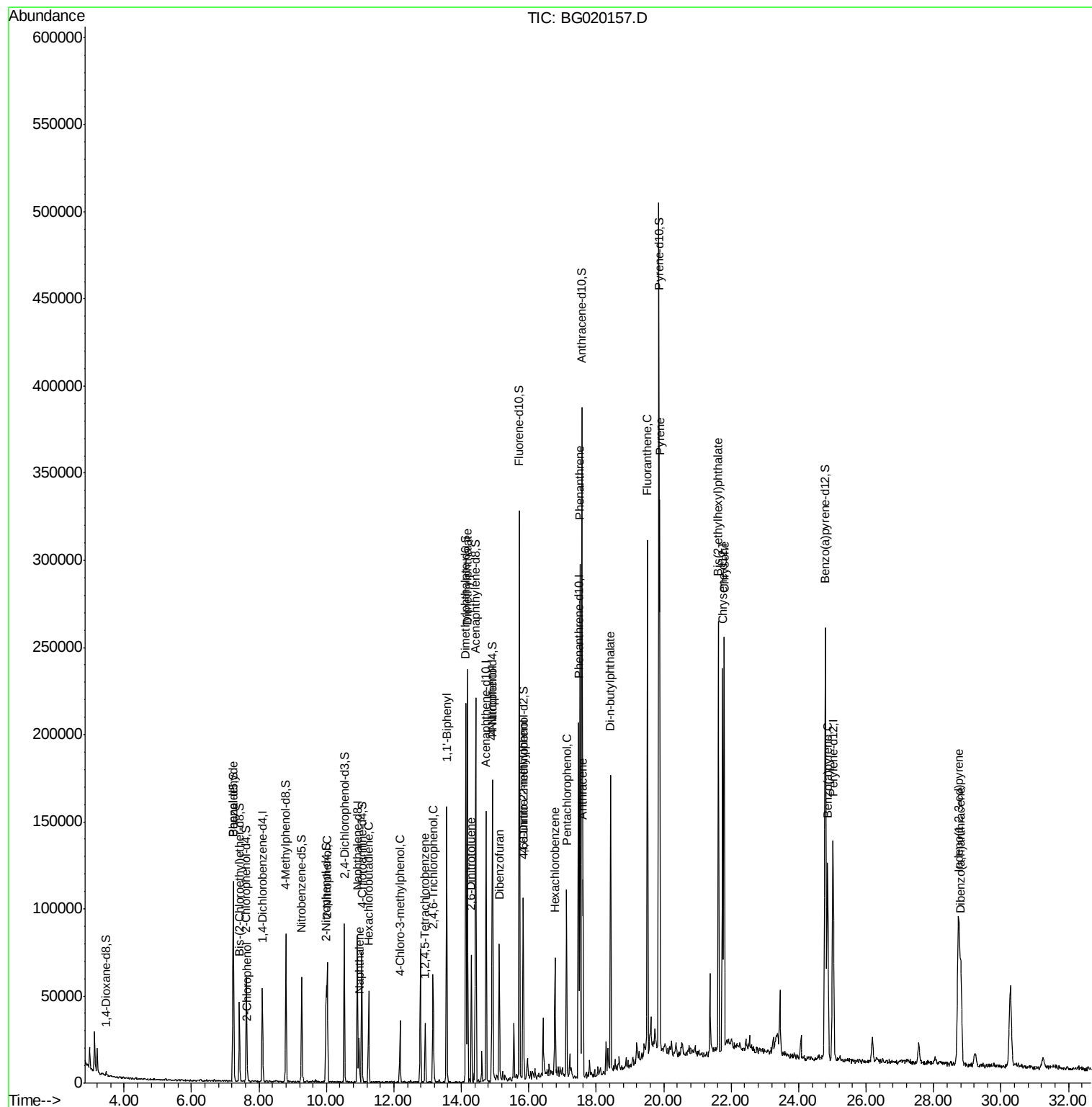
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(a)pyrene	24.86	252	126742	16.52	ng/ul	99
92) Indeno(1,2,3-cd)pyrene	28.74	276	176771	19.35	ng/ul	97
93) Dibenzo(a,h)anthracene	28.81	278	90137	11.89	ng/ul	99

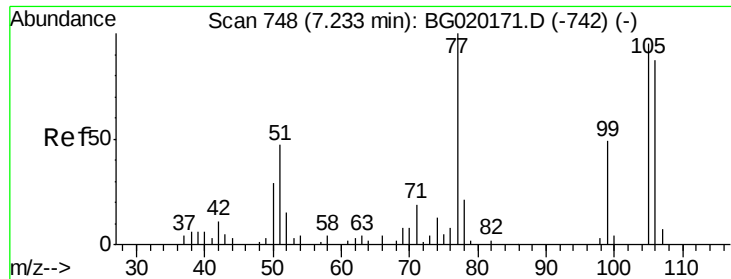
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 32.51 ng/ul

RT: 7.23 min Scan# 748

Delta R.T. 0.00 min

Lab File: BG020157.D

Acq: 14 Dec 2015 17:36

Instrument :

BNA_G

ClientSampleId :

G9BP4

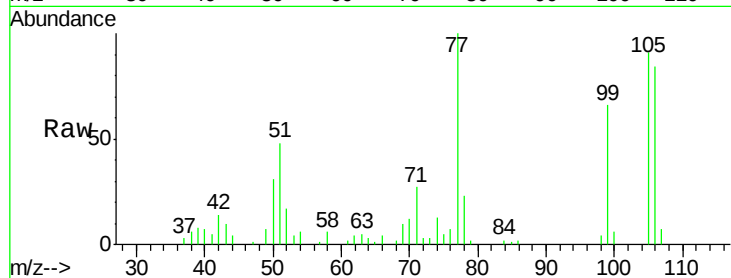
Tgt Ion: 77 Resp: 28654

Ion Ratio Lower Upper

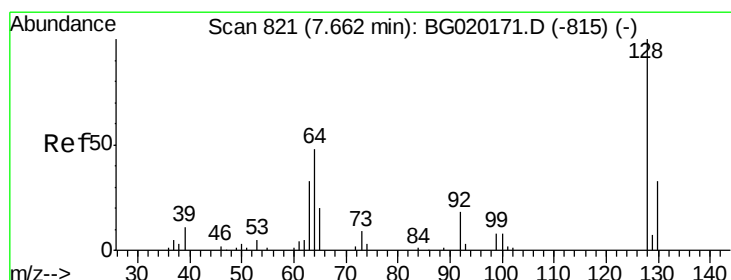
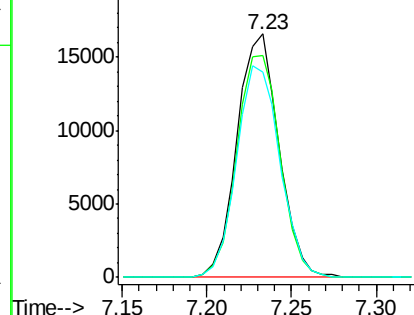
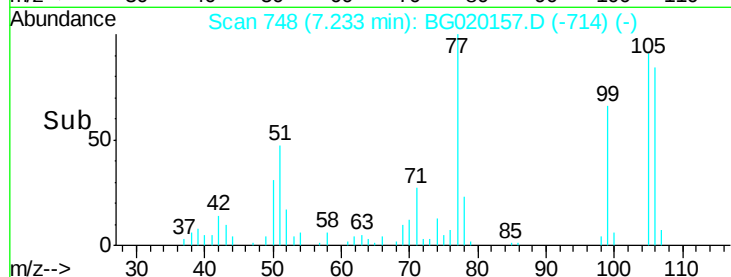
77 100

105 91.2 77.8 116.6

106 84.2 72.6 109.0



Abundance Ion 77.00 (76.70 to 77.70): BGC
Ion 105.00 (104.70 to 105.70): BGC
Ion 106.00 (105.70 to 106.70): BGC



#10

2-Chlorophenol

Concen: 2.77 ng/ul

RT: 7.66 min Scan# 820

Delta R.T. -0.01 min

Lab File: BG020157.D

Acq: 14 Dec 2015 17:36

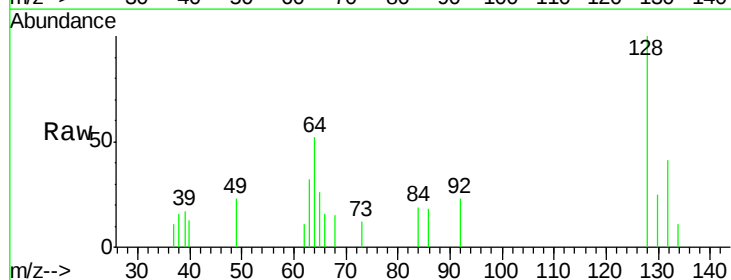
Tgt Ion: 128 Resp: 2874

Ion Ratio Lower Upper

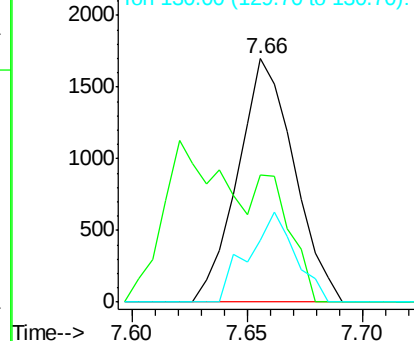
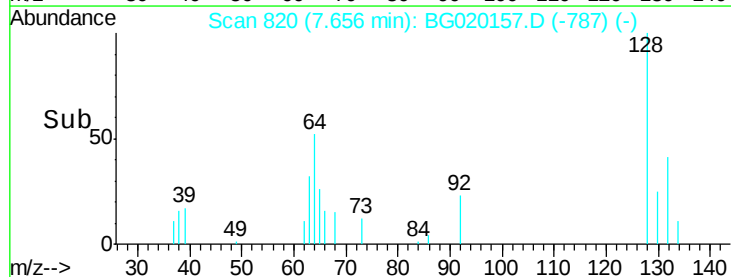
128 100

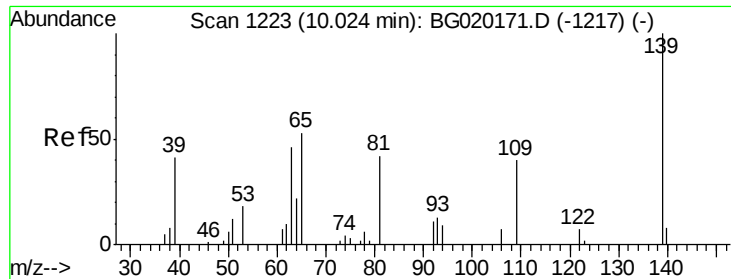
64 52.0 39.4 59.0

130 25.4 24.6 36.8



Abundance Ion 128.00 (127.70 to 128.70): BGC
Ion 64.00 (63.70 to 64.70): BGC
Ion 130.00 (129.70 to 130.70): BGC

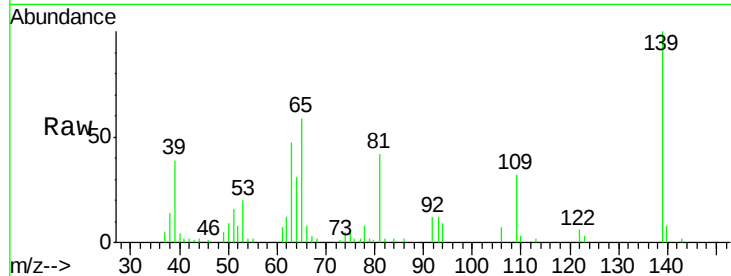




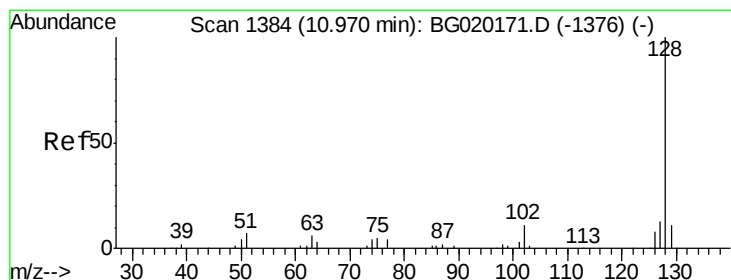
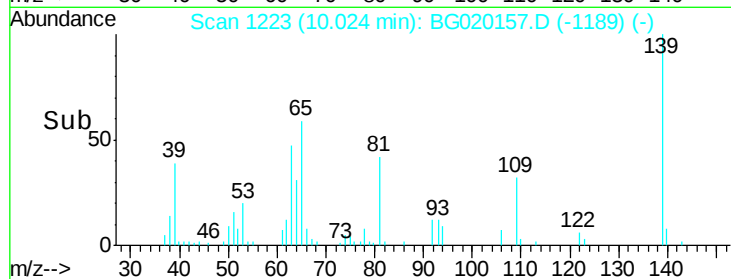
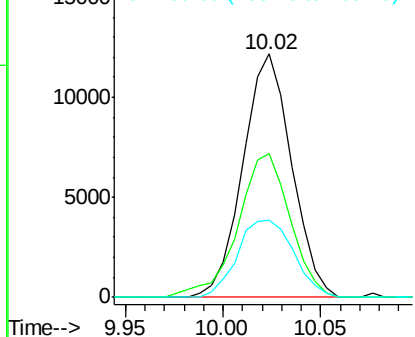
#23
 2-Nitrophenol
 Concen: 31.41 ng/ul
 RT: 10.02 min Scan# 1223
 Delta R.T. 0.00 min
 Lab File: BG020157.D
 Acq: 14 Dec 2015 17:36

Instrument :
 BNA_G
 ClientSampleId :
 G9BP4

Tgt Ion:139 Resp: 20998
 Ion Ratio Lower Upper
 139 100
 65 59.2 45.1 67.7
 109 32.0 29.6 44.4

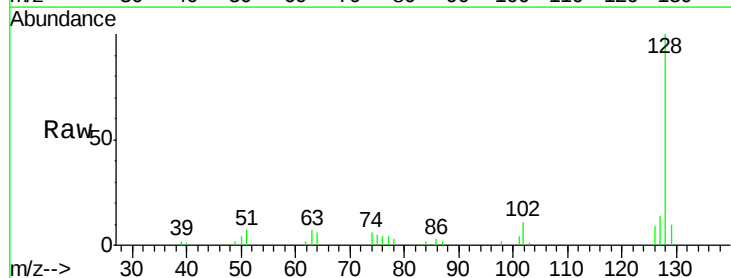


Abundance Ion 139.00 (138.70 to 139.70): E
 Ion 65.00 (64.70 to 65.70): BG
 Ion 109.00 (108.70 to 109.70): E

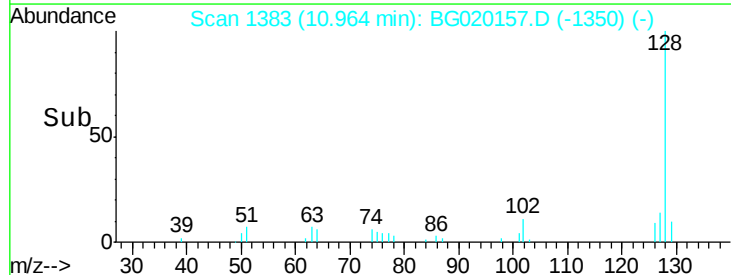
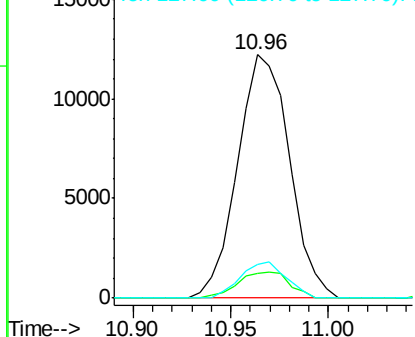


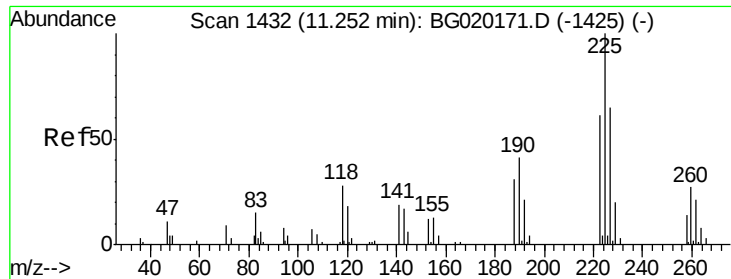
#28
 Naphthalene
 Concen: 5.99 ng/ul
 RT: 10.96 min Scan# 1383
 Delta R.T. -0.01 min
 Lab File: BG020157.D
 Acq: 14 Dec 2015 17:36

Tgt Ion:128 Resp: 22480
 Ion Ratio Lower Upper
 128 100
 129 10.4 8.6 12.8
 127 14.1 10.1 15.1



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

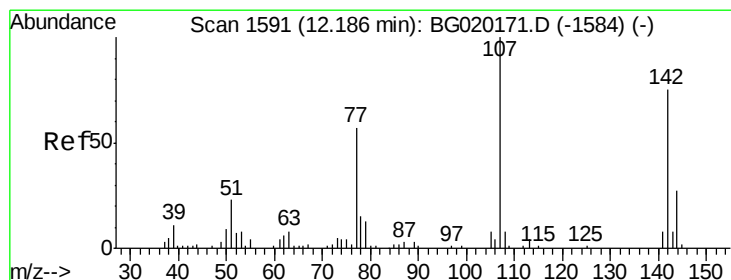
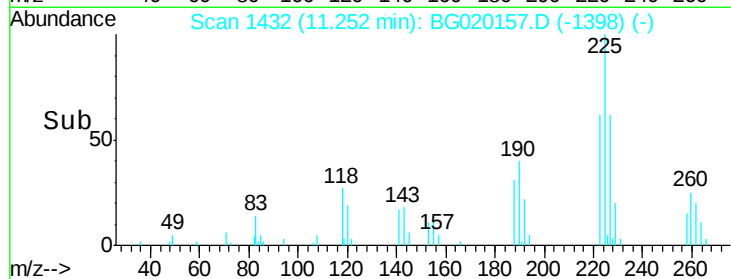
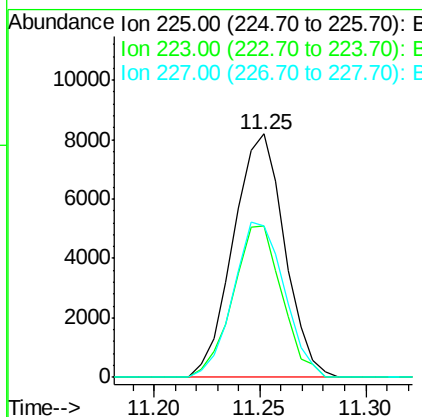
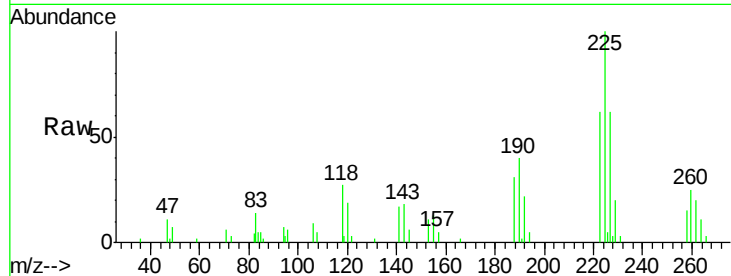




#31
Hexachlorobutadiene
Concen: 14.24 ng/ul
RT: 11.25 min Scan# 1432
Delta R.T. 0.00 min
Lab File: BG020157.D
Acq: 14 Dec 2015 17:36

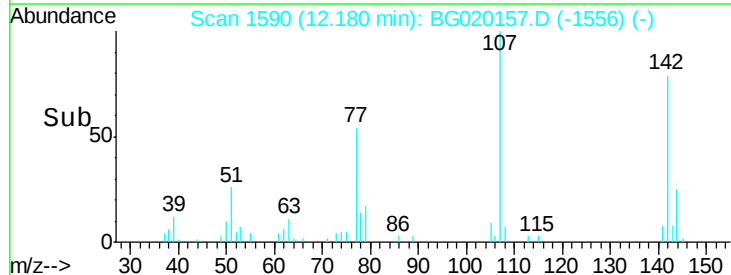
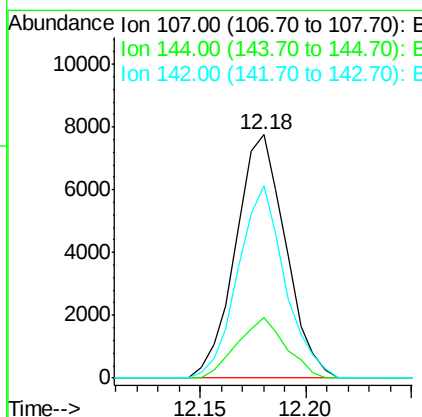
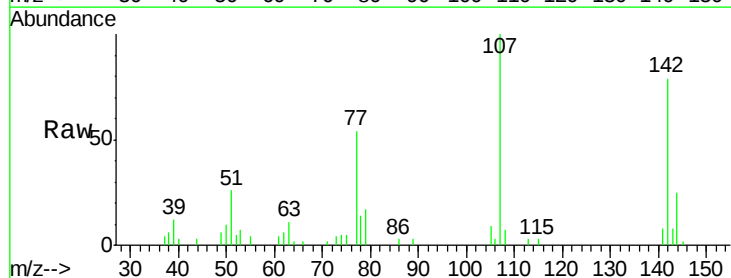
Instrument :
BNA_G
ClientSampleId :
G9BP4

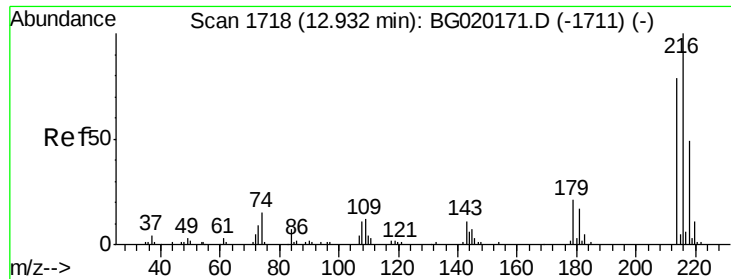
Tgt Ion: 225 Resp: 13771
Ion Ratio Lower Upper
225 100
223 58.9 47.0 70.6
227 61.8 49.7 74.5



#33
4-Chloro-3-methylphenol
Concen: 8.24 ng/ul
RT: 12.18 min Scan# 1590
Delta R.T. 0.00 min
Lab File: BG020157.D
Acq: 14 Dec 2015 17:36

Tgt Ion: 107 Resp: 12706
Ion Ratio Lower Upper
107 100
144 24.8 18.7 28.1
142 78.9 52.8 79.2

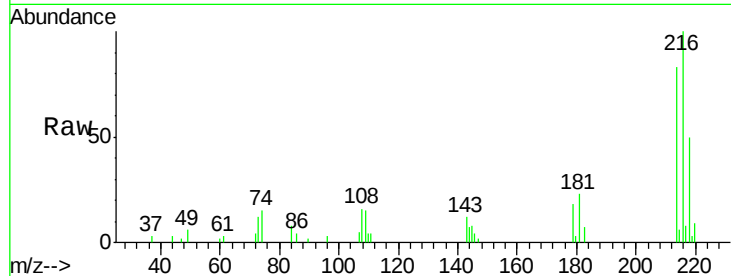




#37
 1,2,4,5-Tetrachlorobenzene
 Concen: 6.30 ng/ul
 RT: 12.93 min Scan# 1717
 Delta R.T. 0.00 min
 Lab File: BG020157.D
 Acq: 14 Dec 2015 17:36

Instrument :
 BNA_G
 ClientSampleId :
 G9BP4

Tgt Ion:	216	Resp:	12133
Ion	Ratio	Lower	Upper
216	100		
214	89.3	62.6	93.8
179	18.2	14.7	22.1
108	16.1	10.5	15.7#

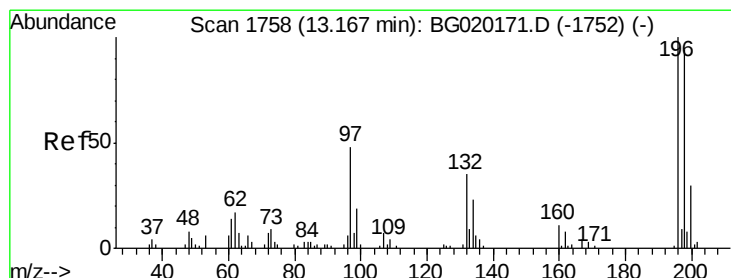
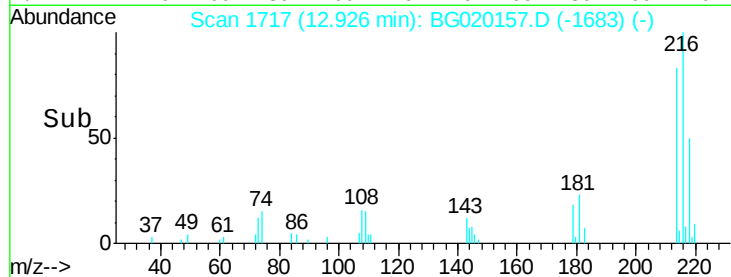
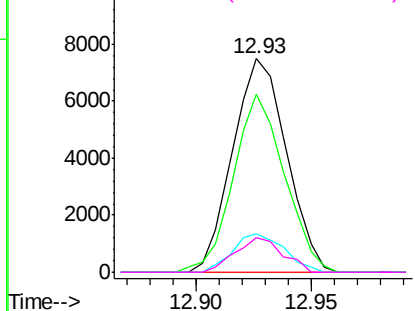


Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

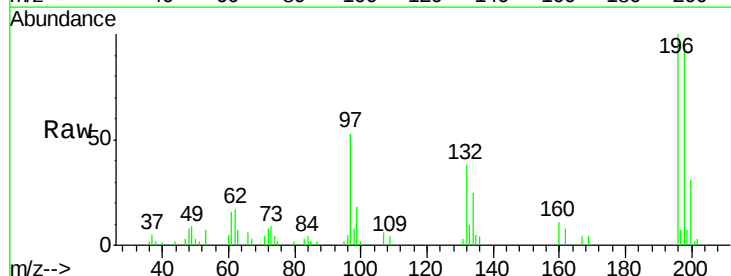
Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#39
 2,4,6-Trichlorophenol
 Concen: 14.07 ng/ul
 RT: 13.16 min Scan# 1757
 Delta R.T. -0.01 min
 Lab File: BG020157.D
 Acq: 14 Dec 2015 17:36

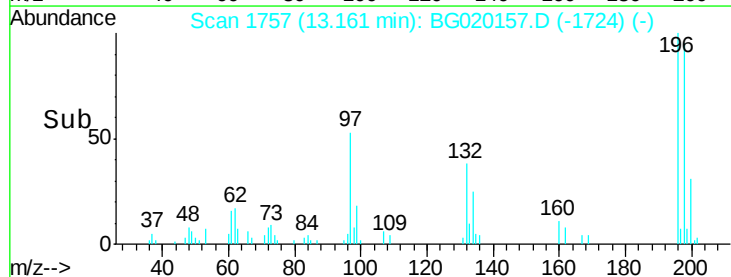
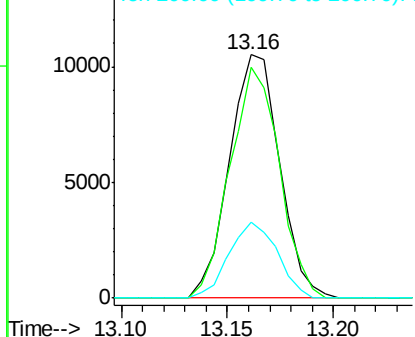
Tgt Ion:	196	Resp:	17373
Ion	Ratio	Lower	Upper
196	100		
198	94.8	75.9	113.9
200	31.1	25.8	38.8

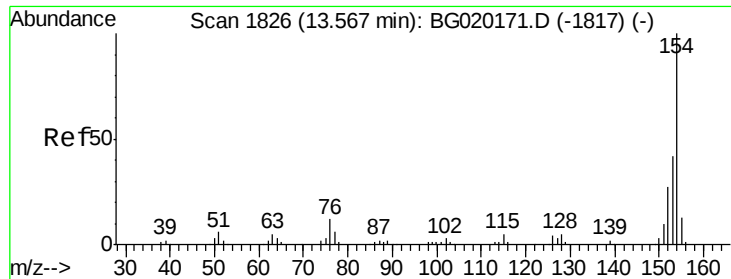


Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 200.00 (199.70 to 200.70): E

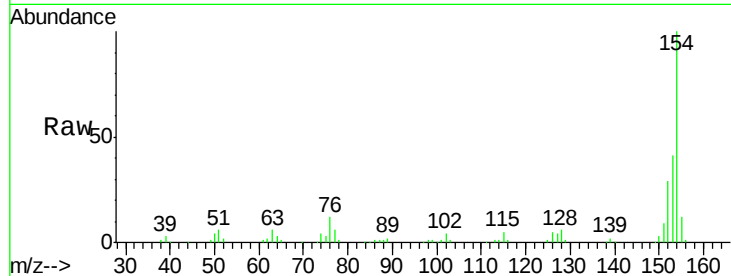




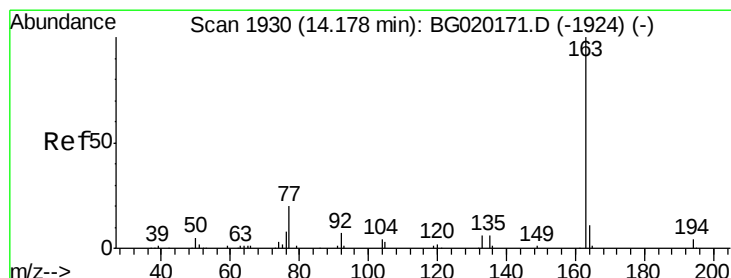
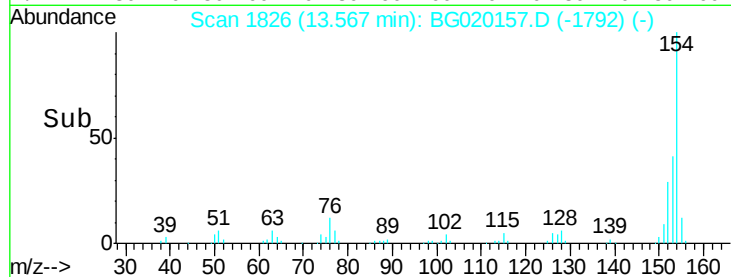
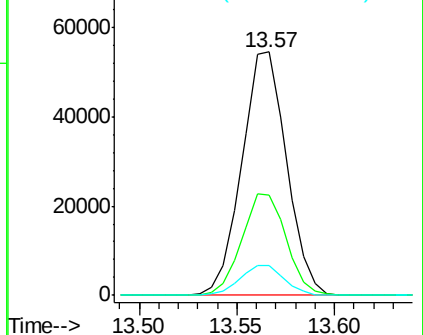
#41
 1,1'-Biphenyl
 Concen: 22.36 ng/ul
 RT: 13.57 min Scan# 1826
 Delta R.T. 0.00 min
 Lab File: BG020157.D
 Acq: 14 Dec 2015 17:36

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Tgt Ion:154 Resp: 86521
 Ion Ratio Lower Upper
 154 100
 153 41.3 35.5 53.3
 76 12.2 10.4 15.6

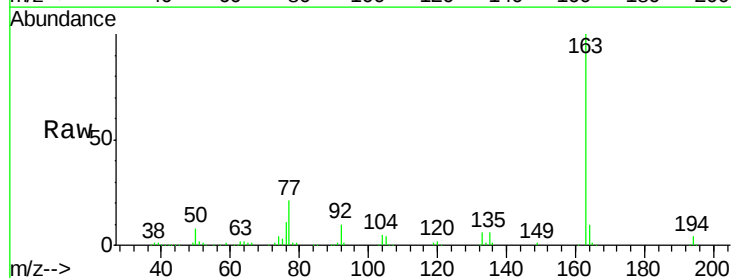


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): B

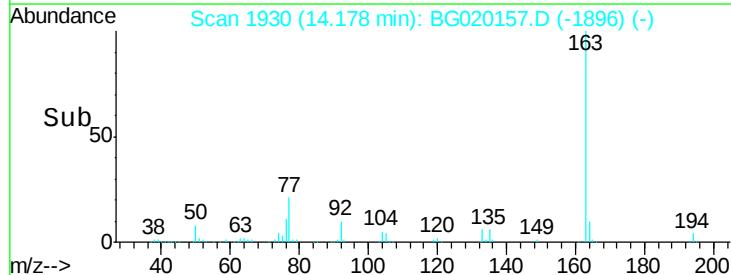
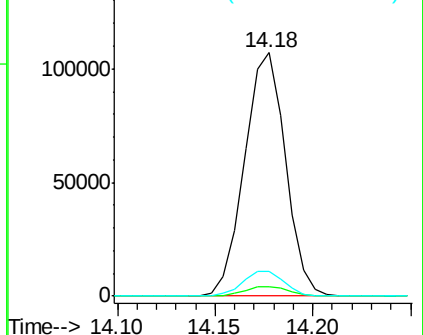


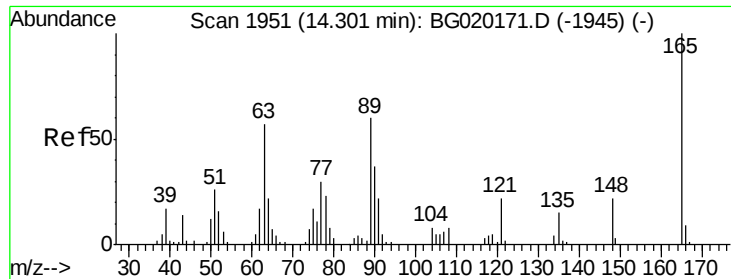
#45
 Dimethylphthalate
 Concen: 36.73 ng/ul
 RT: 14.18 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: BG020157.D
 Acq: 14 Dec 2015 17:36

Tgt Ion:163 Resp: 155643
 Ion Ratio Lower Upper
 163 100
 194 4.1 3.5 5.3
 164 10.1 7.7 11.5



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

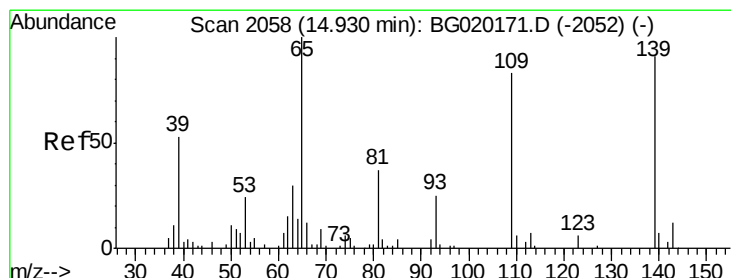
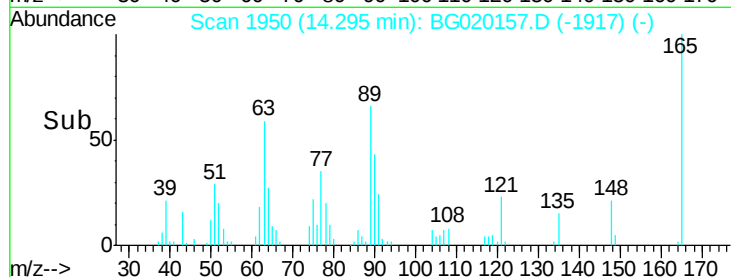
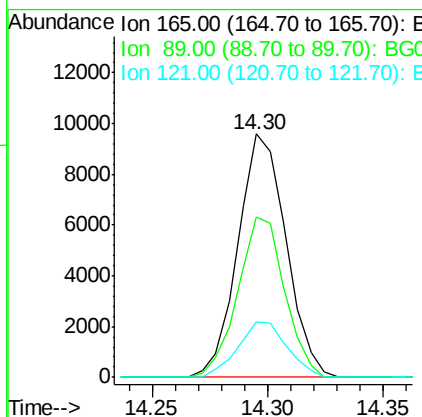
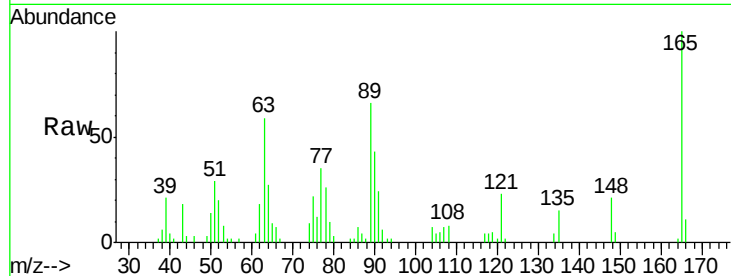




#46
 2,6-Dinitrotoluene
 Concen: 15.90 ng/ul
 RT: 14.30 min Scan# 1950
 Delta R.T. -0.01 min
 Lab File: BG020157.D
 Acq: 14 Dec 2015 17:36

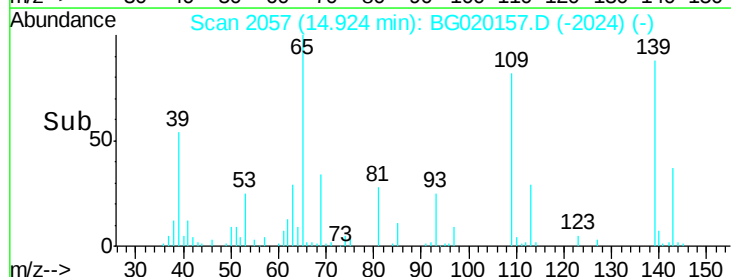
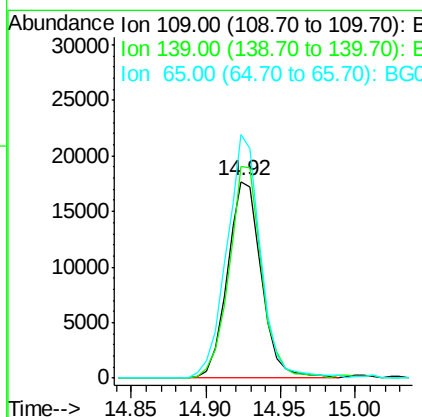
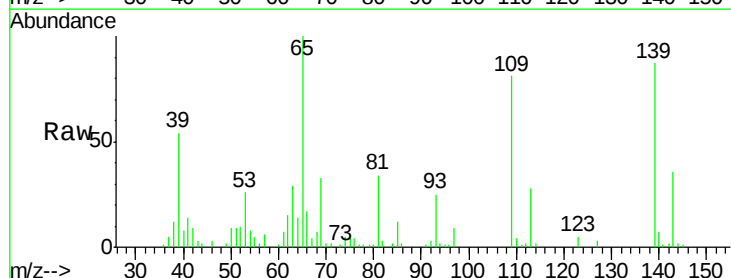
Instrument :
 BNA_G
 ClientSampleId :
 G9BP4

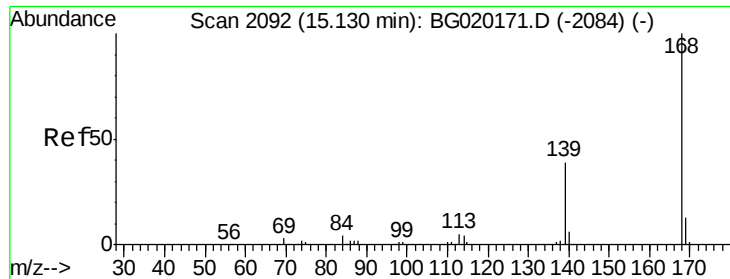
Tgt Ion:165 Resp: 13934
 Ion Ratio Lower Upper
 165 100
 89 65.8 47.0 70.4
 121 22.8 17.0 25.6



#53
 4-Nitrophenol
 Concen: 39.24 ng/ul
 RT: 14.92 min Scan# 2057
 Delta R.T. -0.01 min
 Lab File: BG020157.D
 Acq: 14 Dec 2015 17:36

Tgt Ion:109 Resp: 28084
 Ion Ratio Lower Upper
 109 100
 139 107.6 80.5 120.7
 65 123.8 93.4 140.2

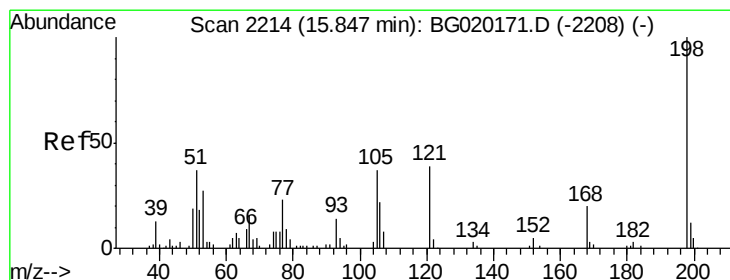
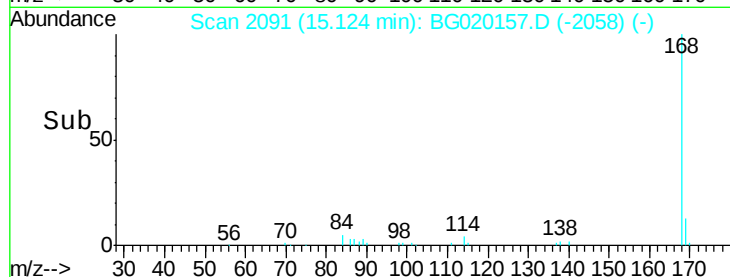
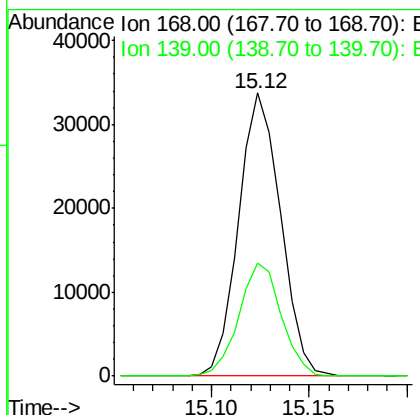
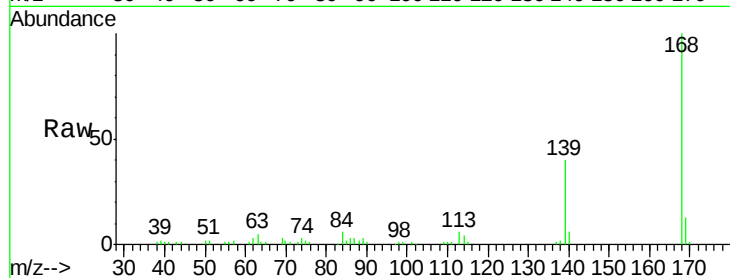




#54
Dibenzenofuran
Concen: 9.82 ng/ul
RT: 15.12 min Scan# 2091
Delta R.T. -0.01 min
Lab File: BG020157.D
Acq: 14 Dec 2015 17:36

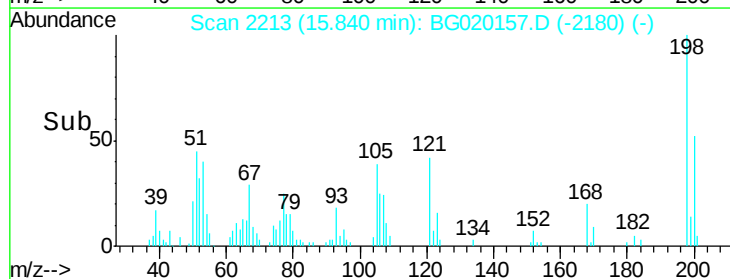
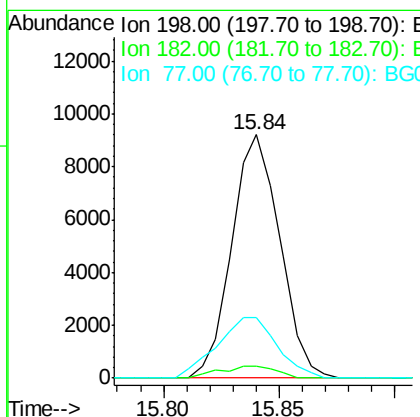
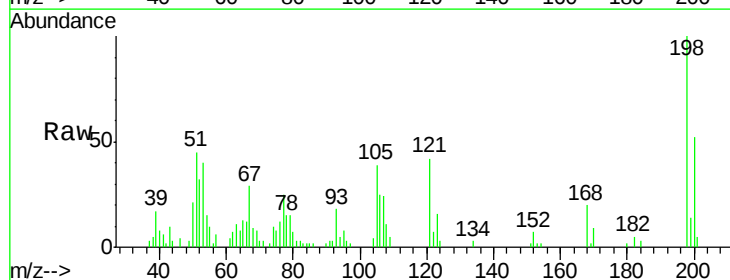
Instrument :
BNA_G
ClientSampleId :
G9BP4

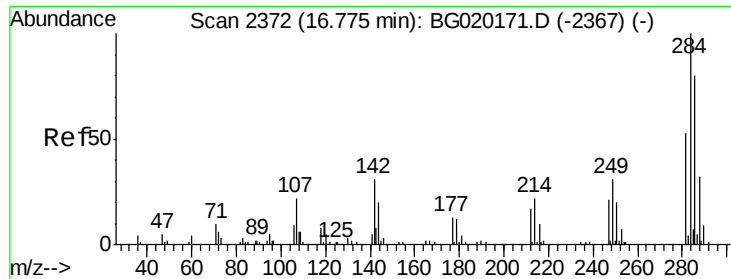
Tgt Ion:168 Resp: 50386
Ion Ratio Lower Upper
168 100
139 39.8 30.5 45.7



#64
4,6-Dinitro-2-methylphenol
Concen: 16.22 ng/ul
RT: 15.84 min Scan# 2213
Delta R.T. -0.01 min
Lab File: BG020157.D
Acq: 14 Dec 2015 17:36

Tgt Ion:198 Resp: 13353
Ion Ratio Lower Upper
198 100
182 5.1 2.5 3.7#
77 25.0 17.7 26.5

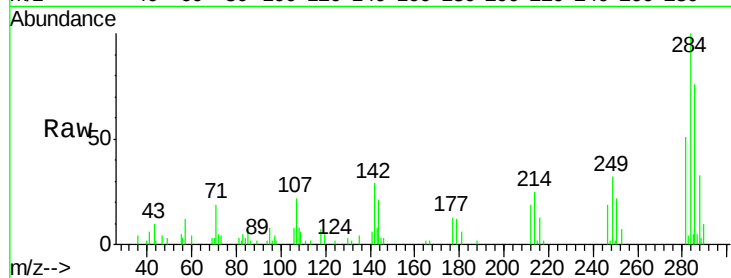




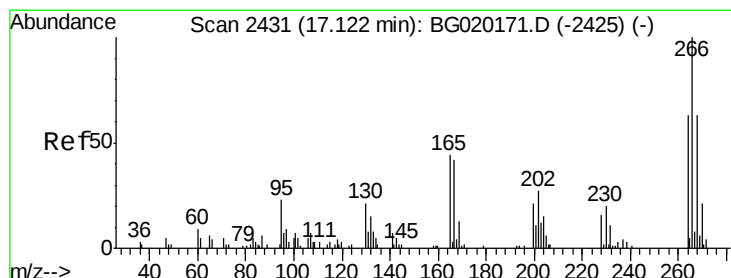
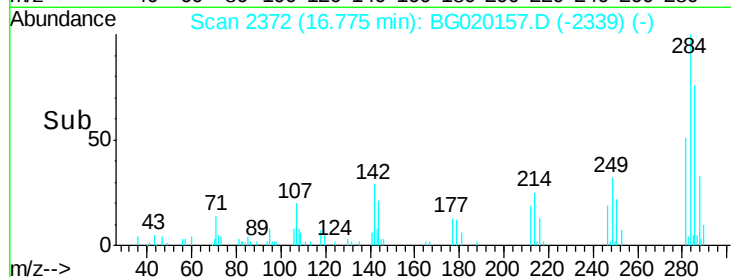
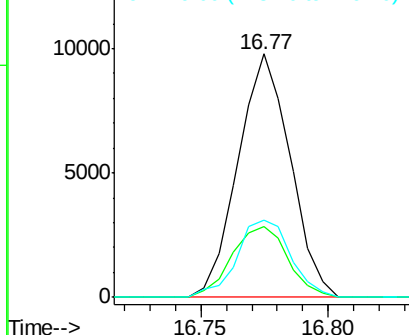
#67
Hexachlorobenzene
Concen: 8.59 ng/ul
RT: 16.77 min Scan# 2372
Delta R.T. -0.01 min
Lab File: BG020157.D
Acq: 14 Dec 2015 17:36

Instrument :
BNA_G
ClientSampled :
G9BP4

Tgt Ion:284 Resp: 14004
Ion Ratio Lower Upper
284 100
142 28.9 25.8 38.8
249 31.9 28.7 43.1

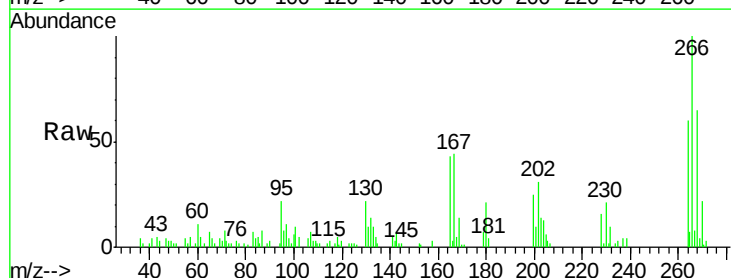


Abundance Ion 284.00 (283.70 to 284.70): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

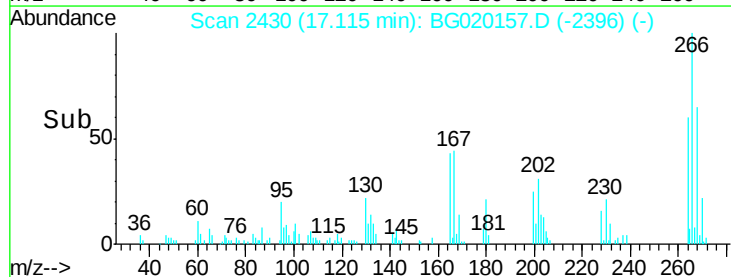
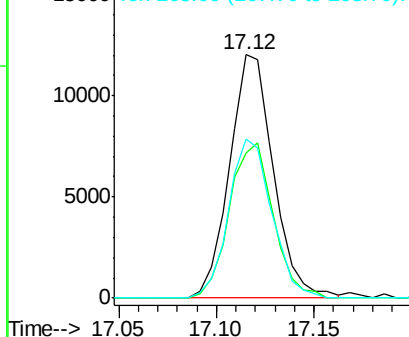


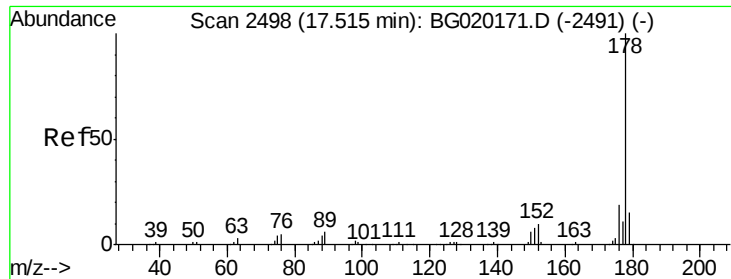
#69
Pentachlorophenol
Concen: 19.08 ng/ul
RT: 17.12 min Scan# 2430
Delta R.T. 0.00 min
Lab File: BG020157.D
Acq: 14 Dec 2015 17:36

Tgt Ion:266 Resp: 18759
Ion Ratio Lower Upper
266 100
264 59.6 52.2 78.2
268 65.2 49.3 73.9



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 264.00 (263.70 to 264.70): E
Ion 268.00 (267.70 to 268.70): E

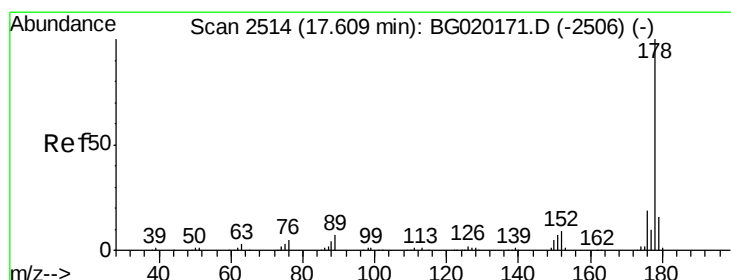
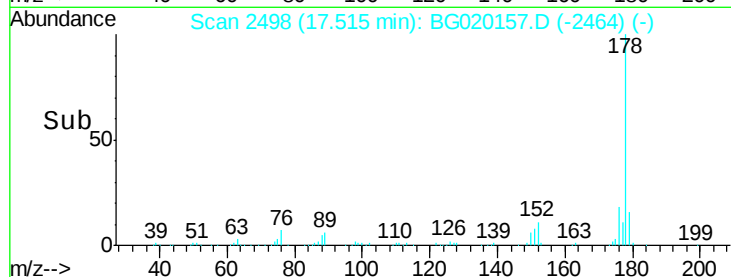
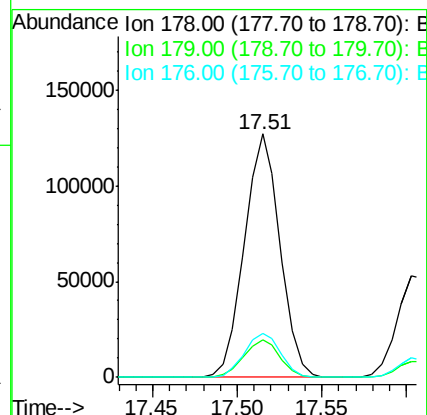
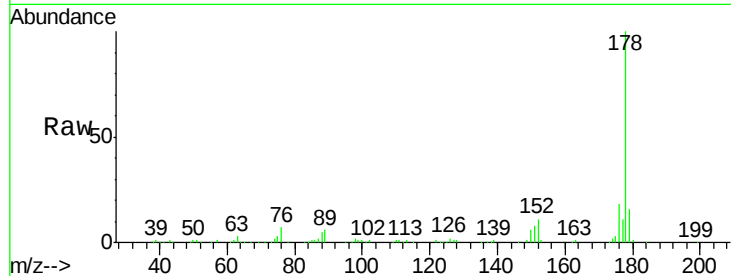




#70
Phenanthrene
Concen: 26.30 ng/ul
RT: 17.51 min Scan# 2498
Delta R.T. 0.00 min
Lab File: BG020157.D
Acq: 14 Dec 2015 17:36

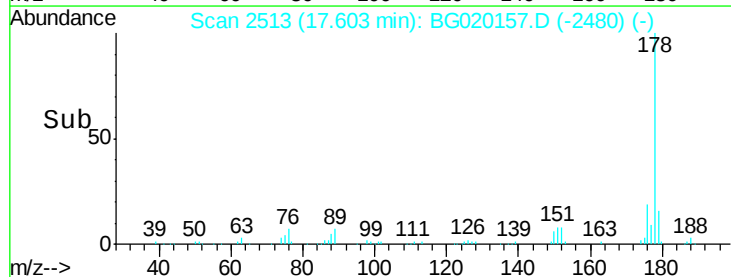
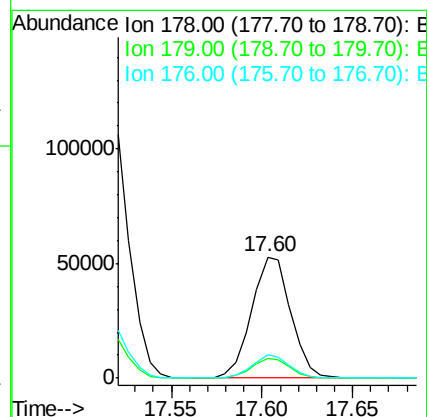
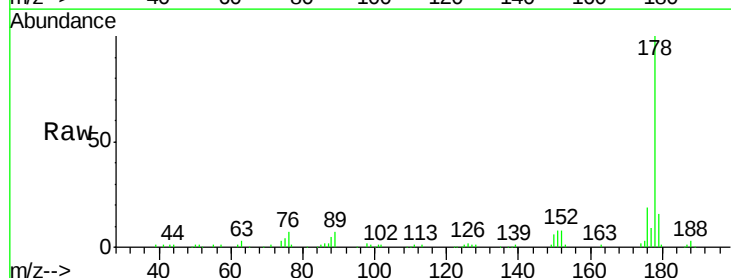
Instrument :
BNA_G
ClientSampleId :
G9BP4

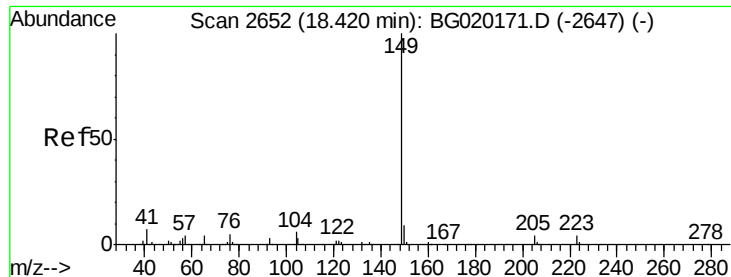
Tgt Ion:178 Resp: 186011
Ion Ratio Lower Upper
178 100
179 15.6 12.9 19.3
176 18.3 15.3 22.9



#72
Anthracene
Concen: 11.02 ng/ul
RT: 17.60 min Scan# 2513
Delta R.T. -0.01 min
Lab File: BG020157.D
Acq: 14 Dec 2015 17:36

Tgt Ion:178 Resp: 79082
Ion Ratio Lower Upper
178 100
179 16.1 12.3 18.5
176 18.9 14.3 21.5





#76

Di-n-butylphthalate

Concen: 18.22 ng/ul

RT: 18.42 min Scan# 2652

Delta R.T. 0.00 min

Lab File: BG020157.D

Acq: 14 Dec 2015 17:36

Instrument :

BNA_G

ClientSampleId :

G9BP4

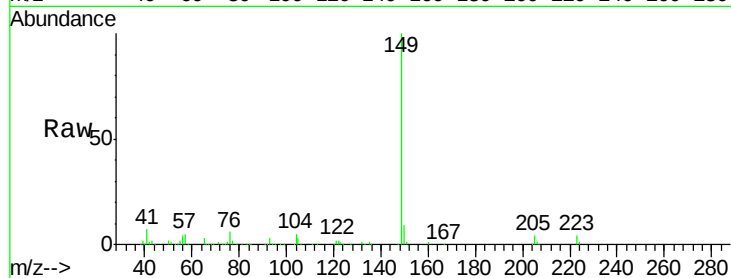
Tgt Ion:149 Resp: 127656

Ion Ratio Lower Upper

149 100

150 9.3 7.7 11.5

104 5.4 4.2 6.4



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

120000

100000

80000

60000

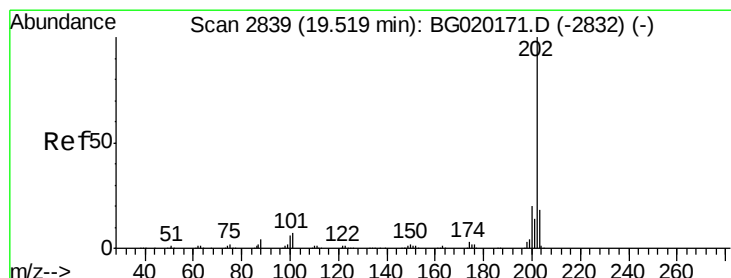
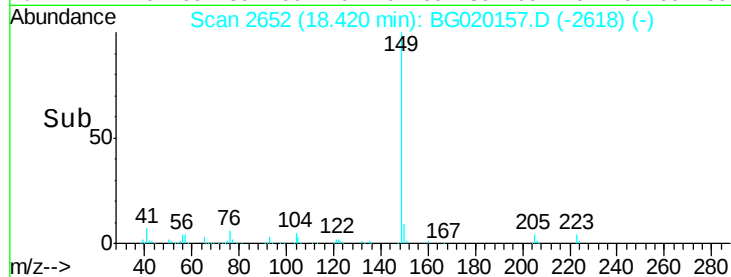
40000

20000

0

18.35 18.40 18.45 18.50

Time-->



#77

Fluoranthene

Concen: 22.92 ng/ul

RT: 19.52 min Scan# 2839

Delta R.T. 0.00 min

Lab File: BG020157.D

Acq: 14 Dec 2015 17:36

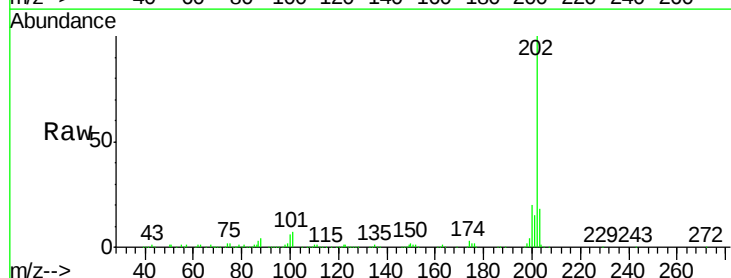
Tgt Ion:202 Resp: 189504

Ion Ratio Lower Upper

202 100

101 7.2 6.2 9.4

100 6.1 5.1 7.7



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): B

150000

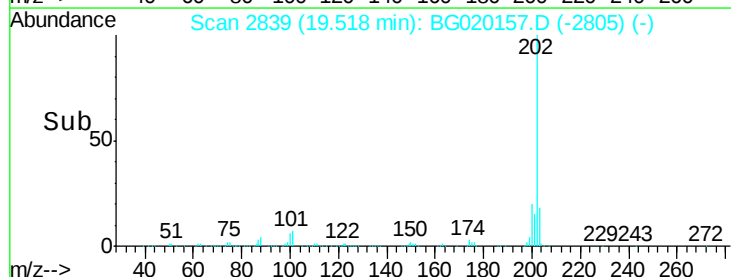
100000

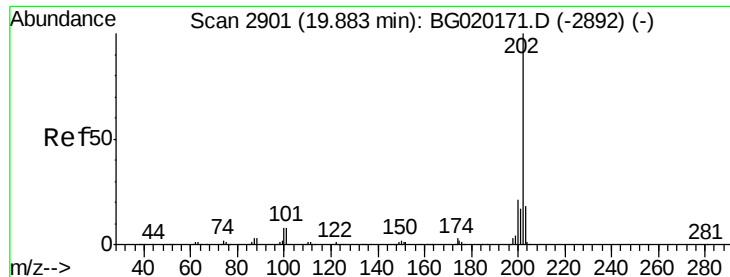
50000

0

19.45 19.50 19.55 19.60

Time-->





#80

Pyrene

Concen: 23.04 ng/ul

RT: 19.88 min Scan# 2901

Delta R.T. 0.00 min

Lab File: BG020157.D

Acq: 14 Dec 2015 17:36

Instrument :

BNA_G

ClientSampleId :

G9BP4

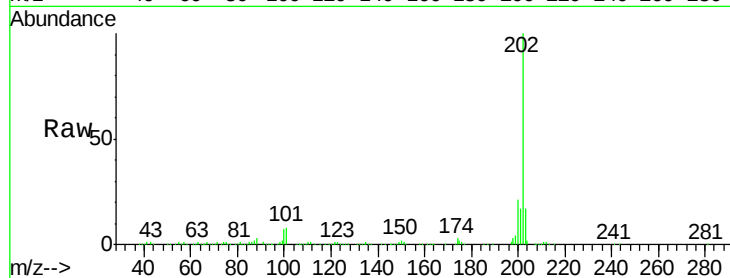
Tgt Ion:202 Resp: 198044

Ion Ratio Lower Upper

202 100

101 7.9 7.0 10.4

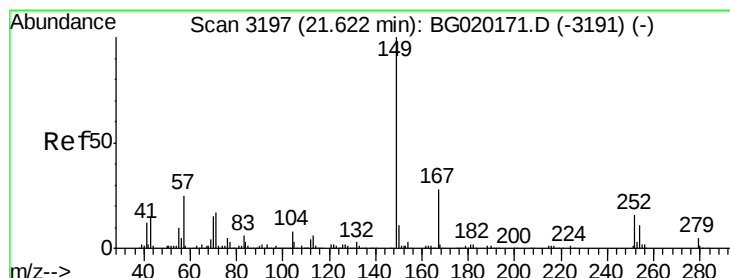
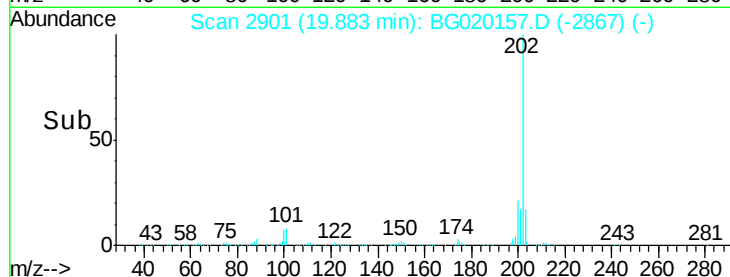
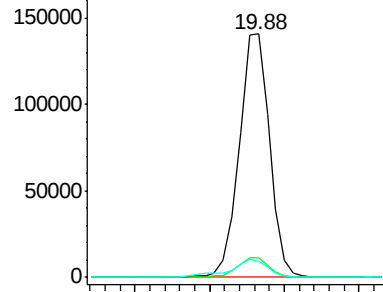
100 6.6 6.4 9.6



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): B



#84

Bis(2-ethylhexyl)phthalate

Concen: 24.31 ng/ul

RT: 21.62 min Scan# 3197

Delta R.T. 0.00 min

Lab File: BG020157.D

Acq: 14 Dec 2015 17:36

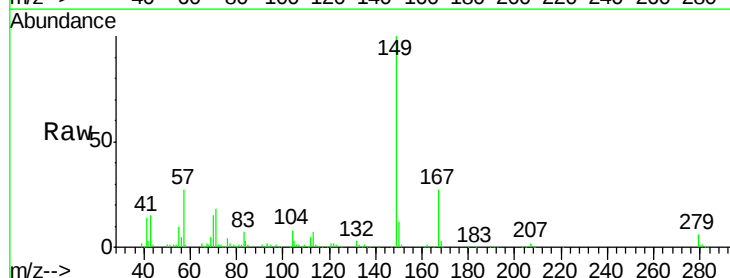
Tgt Ion:149 Resp: 103855

Ion Ratio Lower Upper

149 100

167 26.9 22.8 34.2

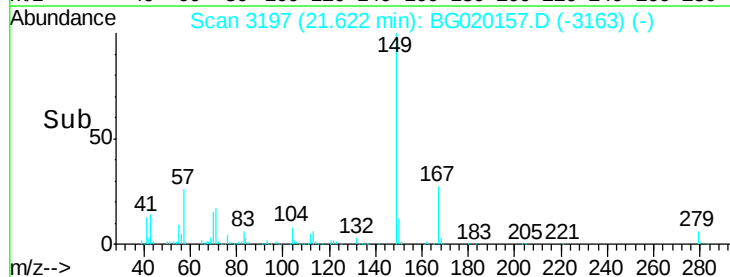
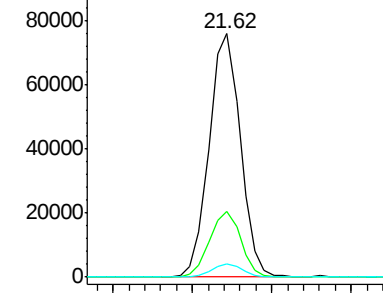
279 5.7 4.1 6.1

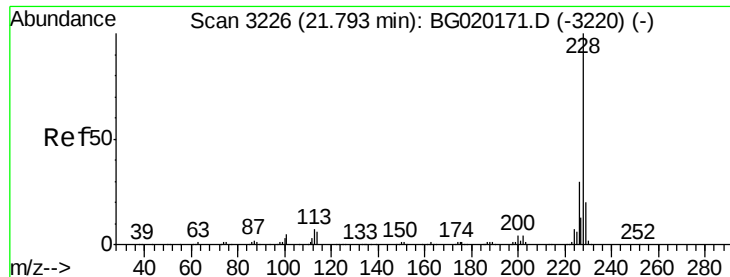


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Chrysene

Concen: 19.44 ng/u1

RT: 21.79 min Scan# 3226

Delta R.T. 0.00 min

Lab File: BG020157.D

Acq: 14 Dec 2015 17:36

Instrument :

BNA_G

ClientSampleId :

G9BP4

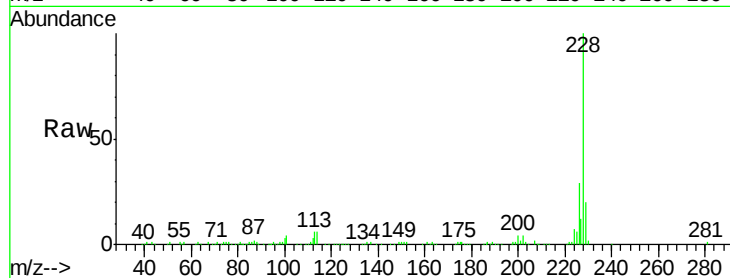
Tgt Ion:228 Resp: 151739

Ion Ratio Lower Upper

228 100

226 28.5 23.9 35.9

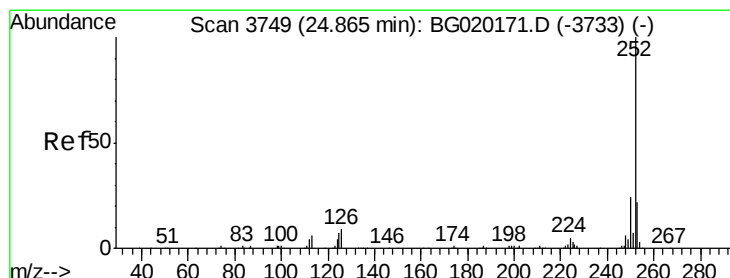
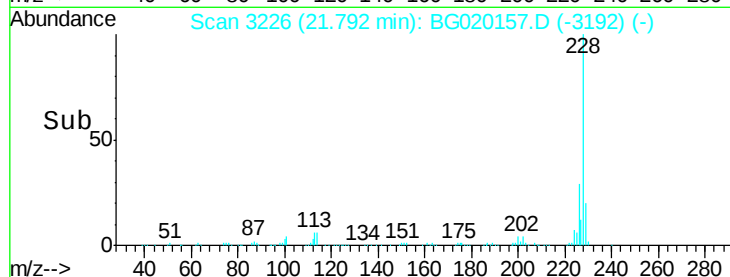
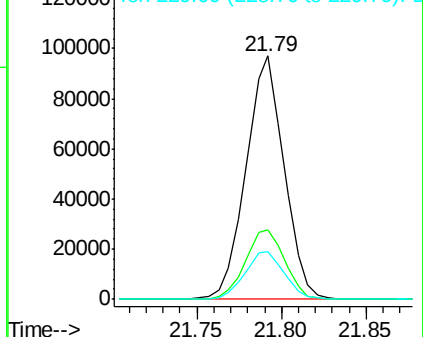
229 19.7 15.6 23.4



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



#91

Benzo(a)pyrene

Concen: 16.52 ng/u1

RT: 24.86 min Scan# 3748

Delta R.T. 0.00 min

Lab File: BG020157.D

Acq: 14 Dec 2015 17:36

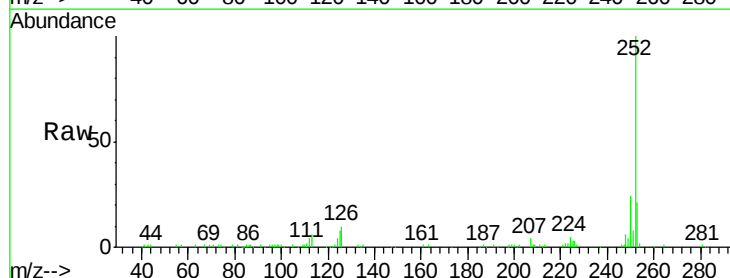
Tgt Ion:252 Resp: 126742

Ion Ratio Lower Upper

252 100

253 21.5 17.0 25.4

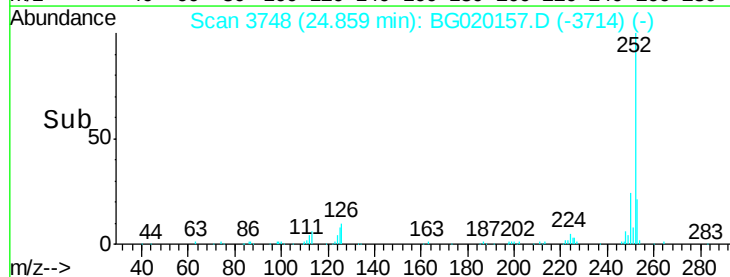
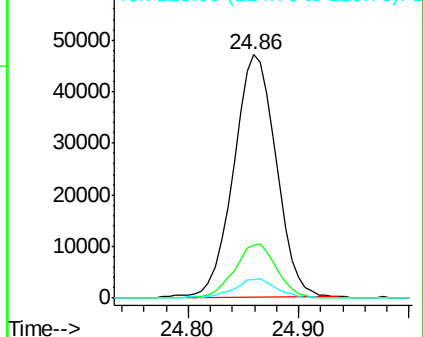
125 7.6 6.2 9.4

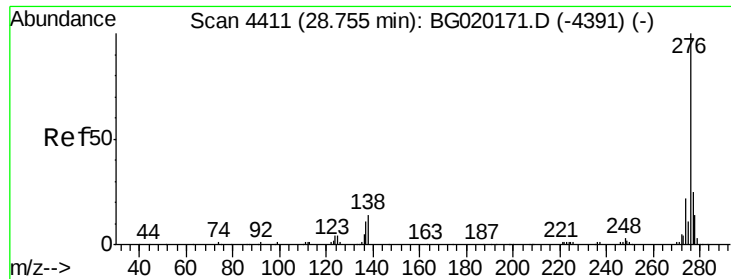


Abundance Ion 252.00 (251.70 to 252.70): E

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: 19.35 ng/ul

RT: 28.74 min Scan# 4409

Delta R.T. 0.01 min

Lab File: BG020157.D

Acq: 14 Dec 2015 17:36

Instrument :

BNA_G

ClientSampleId :

G9BP4

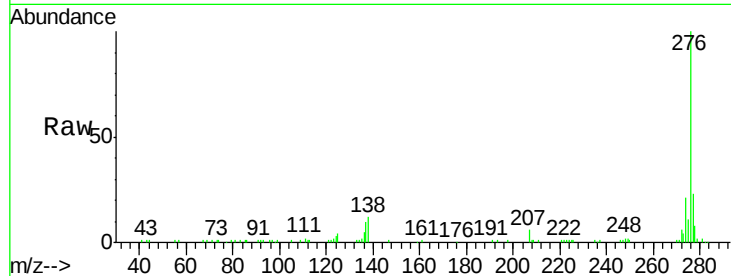
Tgt Ion:276 Resp: 176771

Ion Ratio Lower Upper

276 100

138 12.3 11.4 17.0

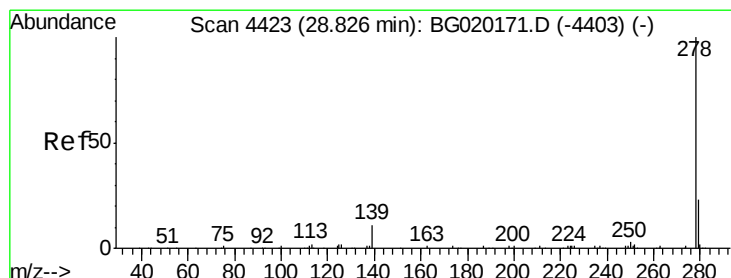
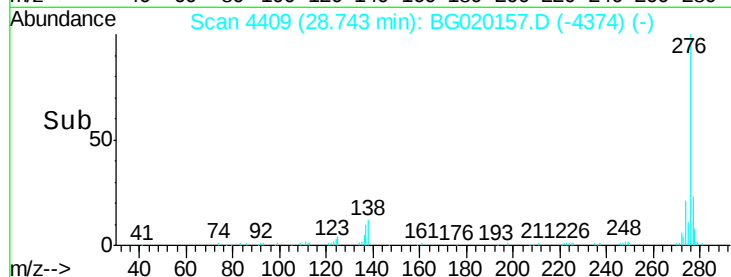
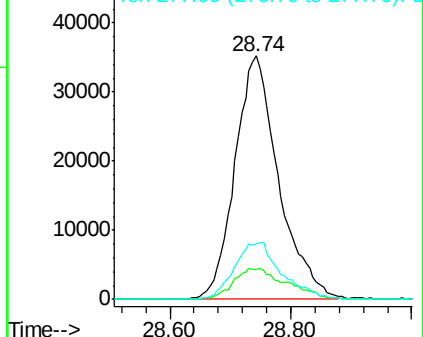
277 22.8 17.4 26.0



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: 11.89 ng/ul

RT: 28.81 min Scan# 4420

Delta R.T. -0.01 min

Lab File: BG020157.D

Acq: 14 Dec 2015 17:36

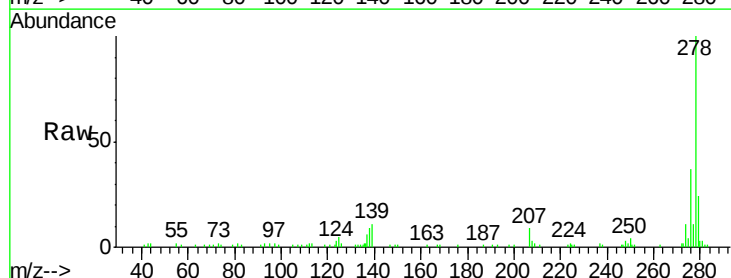
Tgt Ion:278 Resp: 90137

Ion Ratio Lower Upper

278 100

139 11.3 9.4 14.2

279 23.6 19.4 29.0



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

