

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020411.D
 Acq On : 22 Dec 2015 16:16
 Operator : UM/SJ
 Sample : G4848-04
 Misc : med level RX
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N50ME

Quant Time: Dec 23 04:13:54 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 23 04:11:36 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.08	152	15401	20.00	ng/ul	0.00
18) Naphthalene-d8	10.91	136	77773	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.72	164	59661	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.47	188	125642	20.00	ng/ul	0.00
78) Chrysene-d12	21.74	240	156008	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	152726	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.46	96	821	2.94	ng/uL	0.00
5) Phenol-d5	7.24	99	24337	17.92	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.40	67	16239	20.04	ng/ul	0.00
9) 2-Chlorophenol-d4	7.61	132	20277	20.53	ng/ul	0.00
13) 4-Methylphenol-d8	8.79	113	22849	19.67	ng/ul	0.00
19) Nitrobenzene-d5	9.25	128	12745	21.02	ng/ul	0.00
22) 2-Nitrophenol-d4	9.98	143	15608	23.14	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.52	165	26917	19.70	ng/ul	0.00
29) 4-Chloroaniline-d4	11.03	131	29660	19.32	ng/ul	0.00
44) Dimethylphthalate-d6	14.12	166	103911	21.53	ng/ul	0.00
47) Acenaphthylene-d8	14.41	160	119264	21.24	ng/ul	0.00
52) 4-Nitrophenol-d4	14.92	143	10755	12.43	ng/ul	0.00
58) Fluorene-d10	15.71	176	91187	20.83	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	10129	13.60	ng/ul	0.00
71) Anthracene-d10	17.57	188	131460	22.71	ng/ul	0.01
79) Pyrene-d10	19.85	212	148962	20.49	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.78	264	175798	23.08	ng/ul	0.00

Target Compounds

						Qvalue
28) Naphthalene	10.96	128	1565450	385.44	ng/ul#	93
30) 4-Chloroaniline	10.96	127	232012	148.07	ng/ul#	11
34) 2-Methylnaphthalene	12.56	142	562179	181.21	ng/ul	98
35) 1-Methylnaphthalene	12.77	142	269520	90.37	ng/ul	97
41) 1,1'-Biphenyl	13.55	154	231735	51.48	ng/ul	95
45) Dimethylphthalate	14.17	163	15952	3.24	ng/ul	98
48) Acenaphthylene	14.44	152	69196	11.60	ng/ul#	96
50) Acenaphthene	14.79	153	995221	247.98	ng/ul	96
53) 4-Nitrophenol	14.79	109	2119	2.55	ng/ul#	1
54) Dibenzofuran	15.12	168	1008144	168.86	ng/ul	96
55) 2,4-Dinitrotoluene	15.06	165	1704	1.14	ng/ul#	31
59) Fluorene	15.78	166	959631	200.16	ng/ul	98
61) 4-Nitroaniline	15.78	138	12523	11.70	ng/ul#	12
65) N-Nitrosodiphenylamine	15.97	169	4778	1.37	ng/ul#	1
70) Phenanthrene	17.60	178	313563	45.63	ng/ul	99
72) Anthracene	17.60	178	313563	44.98	ng/ul	99
75) Carbazole	17.87	167	188214	32.14	ng/ul	99
77) Fluoranthene	19.52	202	2077510	258.66	ng/ul#	93
80) Pyrene	19.88	202	1535590	162.63	ng/ul	97
83) Benzo(a)anthracene	21.72	228	425791	46.77	ng/ul	98
85) Chrysene	21.79	228	357502	41.70	ng/ul	98
88) Benzo(b)fluoranthene	23.97	252	204210	22.22	ng/ul	96
89) Benzo(k)fluoranthene	23.97	252	204210	23.15	ng/ul	99

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Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 23 04:11:36 2015
Response via : Initial Calibration

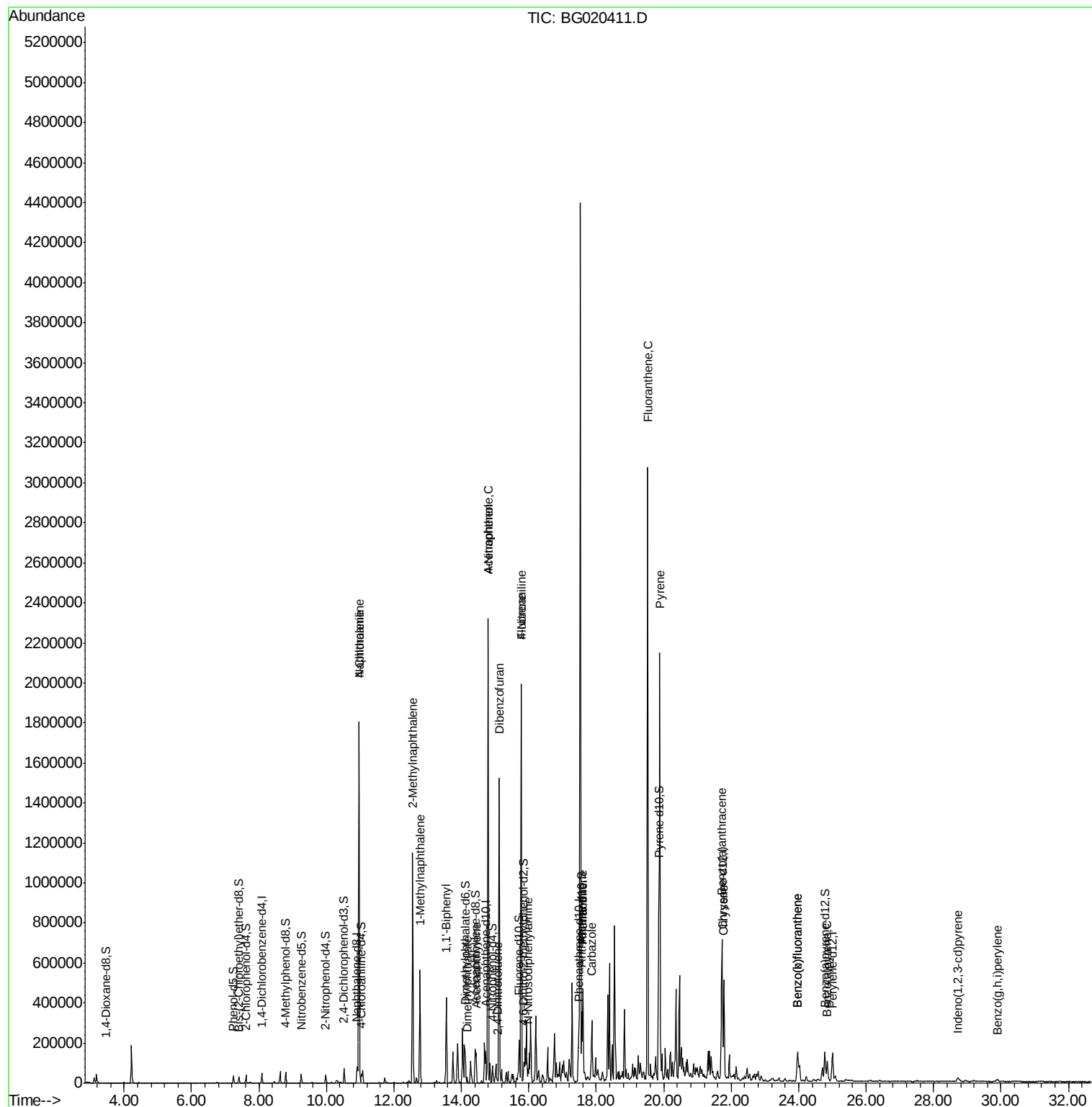
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(a)pyrene	24.85	252	114514	13.14	ng/ul	99
92) Indeno(1,2,3-cd)pyrene	28.71	276	16731	1.61	ng/ul	97
94) Benzo(g,h,i)perylene	29.88	276	26021	3.06	ng/ul	98

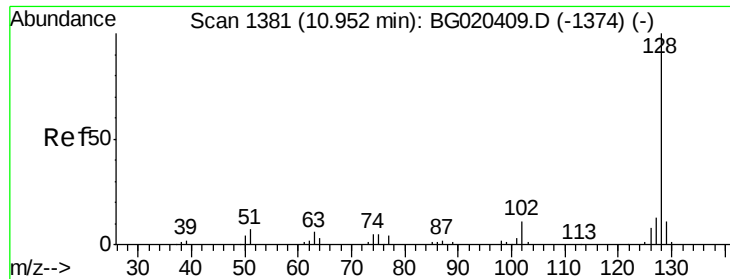
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#28

Naphthalene

Concen: 385.44 ng/ul

RT: 10.96 min Scan# 1383

Delta R.T. 0.01 min

Lab File: BG020411.D

Acq: 22 Dec 2015 16:16

Instrument :

BNA_G

ClientSampleId :

D9N50ME

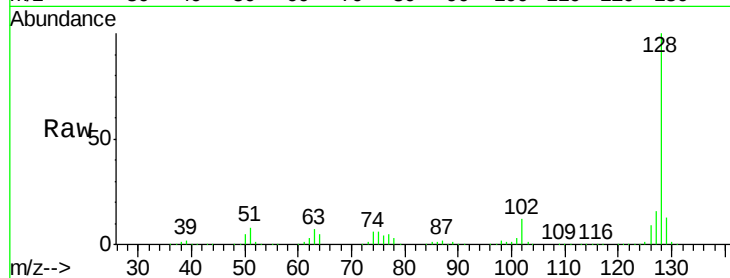
Tgt Ion:128 Resp: 1565450

Ion Ratio Lower Upper

128 100

129 12.9 8.6 12.8#

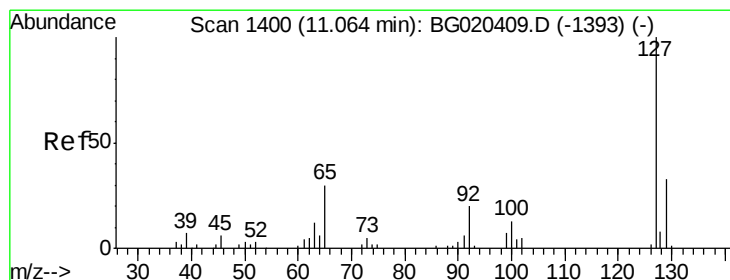
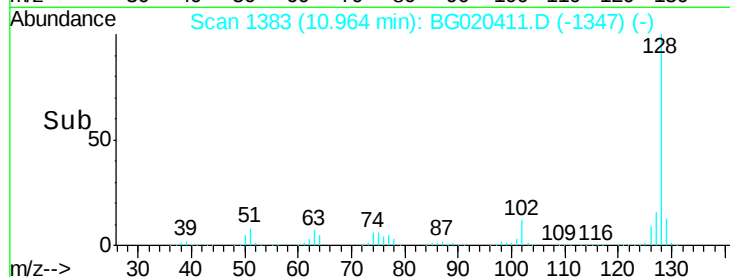
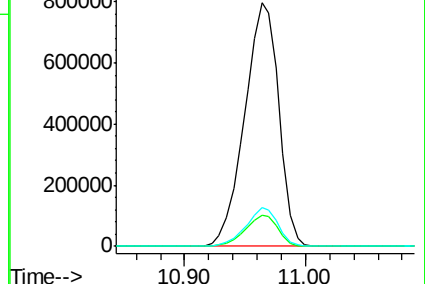
127 15.8 10.1 15.1#



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



#30

4-Chloroaniline

Concen: 148.07 ng/ul

RT: 10.96 min Scan# 1383

Delta R.T. -0.10 min

Lab File: BG020411.D

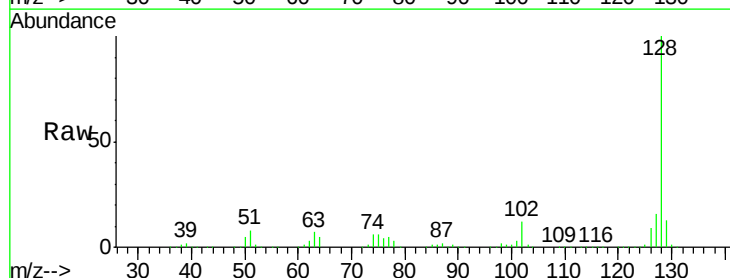
Acq: 22 Dec 2015 16:16

Tgt Ion:127 Resp: 232012

Ion Ratio Lower Upper

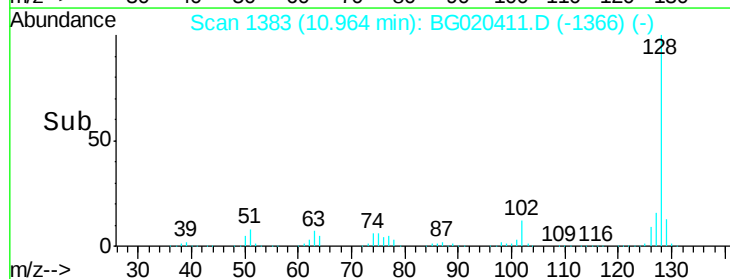
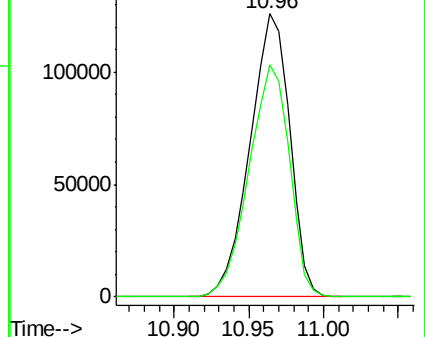
127 100

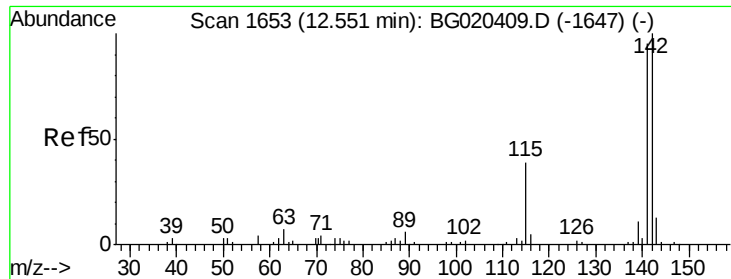
129 81.9 25.7 38.5#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

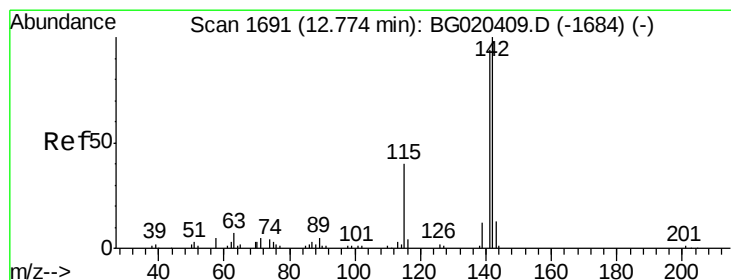
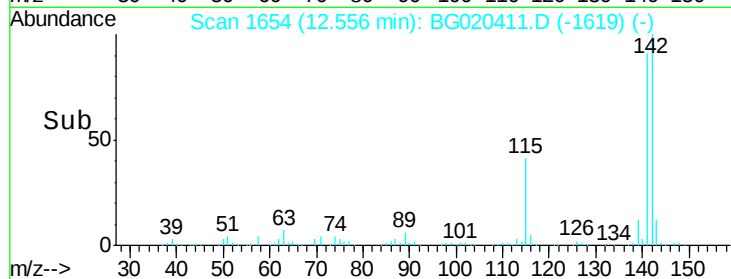
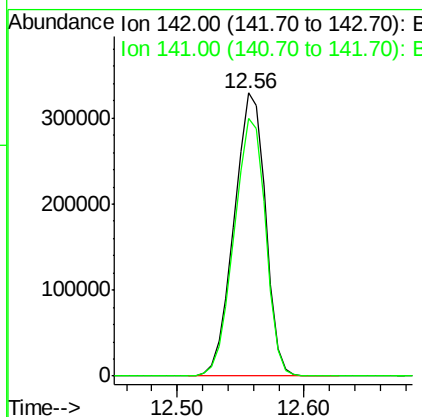
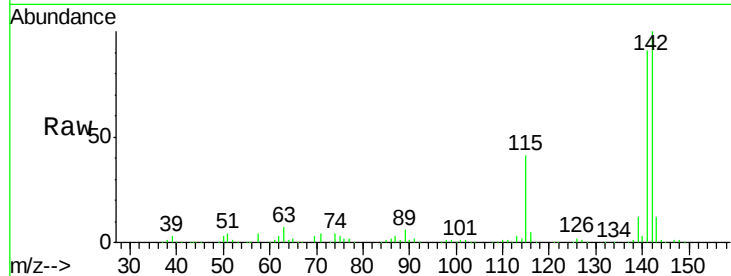




#34
2-Methylnaphthalene
Concen: 181.21 ng/ul
RT: 12.56 min Scan# 1654
Delta R.T. 0.01 min
Lab File: BG020411.D
Acq: 22 Dec 2015 16:16

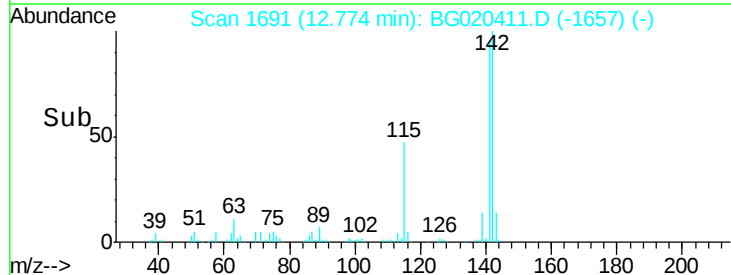
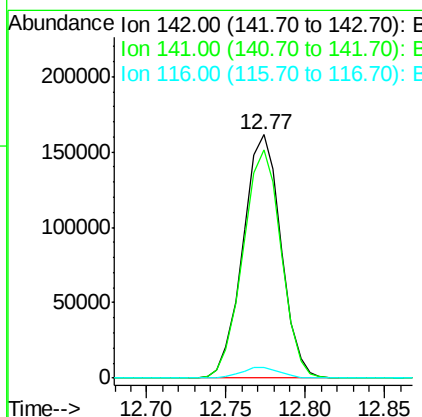
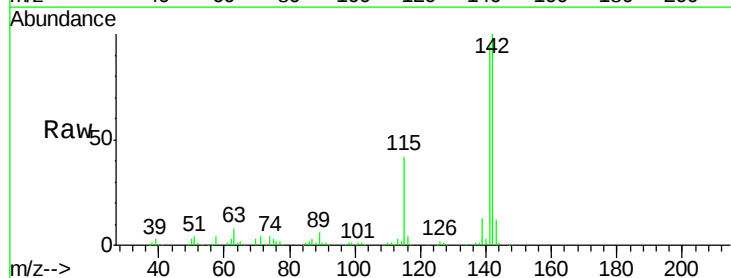
Instrument :
BNA_G
ClientSampleId :
D9N50ME

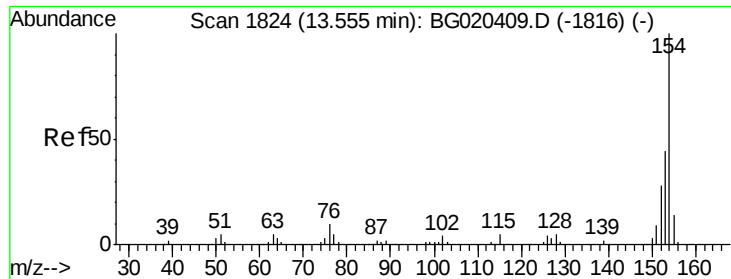
Tgt Ion:142 Resp: 562179
Ion Ratio Lower Upper
142 100
141 91.3 74.9 112.3



#35
1-Methylnaphthalene
Concen: 90.37 ng/ul
RT: 12.77 min Scan# 1691
Delta R.T. -0.00 min
Lab File: BG020411.D
Acq: 22 Dec 2015 16:16

Tgt Ion:142 Resp: 269520
Ion Ratio Lower Upper
142 100
141 93.8 73.0 109.6
116 4.4 3.0 4.6

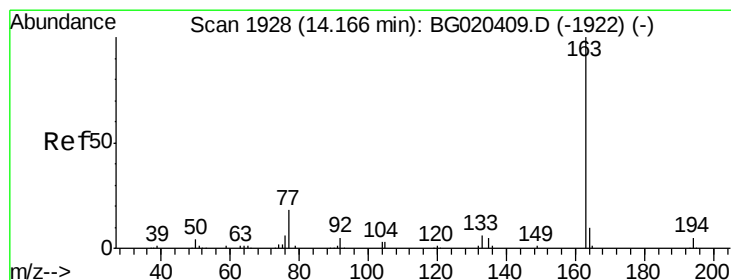
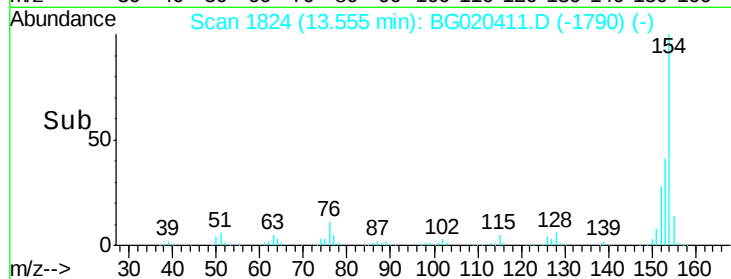
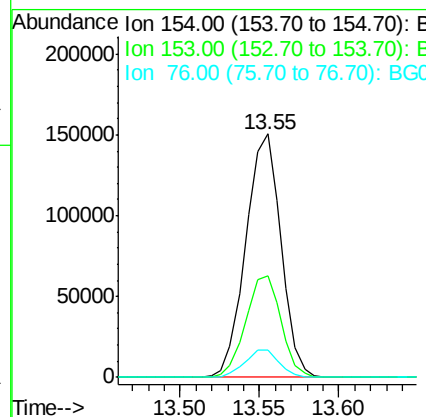
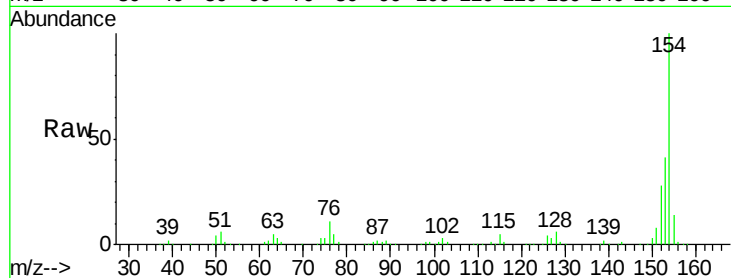




#41
 1,1'-Biphenyl
 Concen: 51.48 ng/ul
 RT: 13.55 min Scan# 1824
 Delta R.T. -0.00 min
 Lab File: BG020411.D
 Acq: 22 Dec 2015 16:16

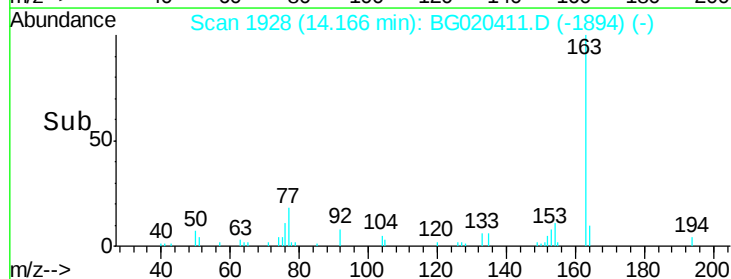
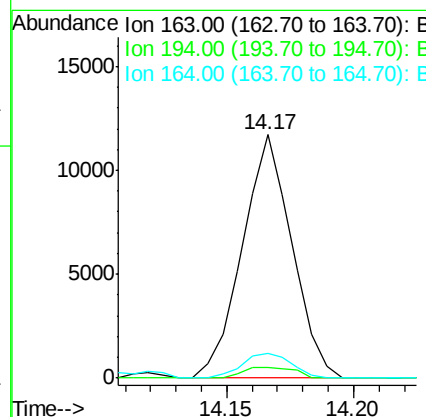
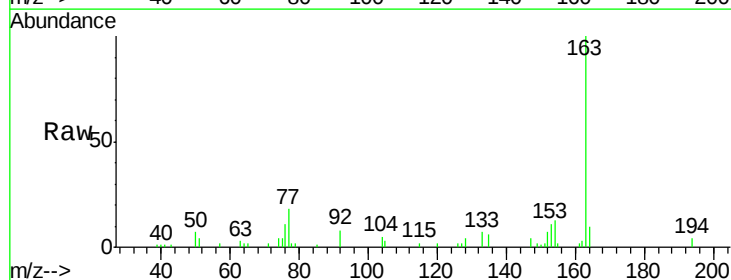
Instrument :
 BNA_G
 ClientSampleId :
 D9N50ME

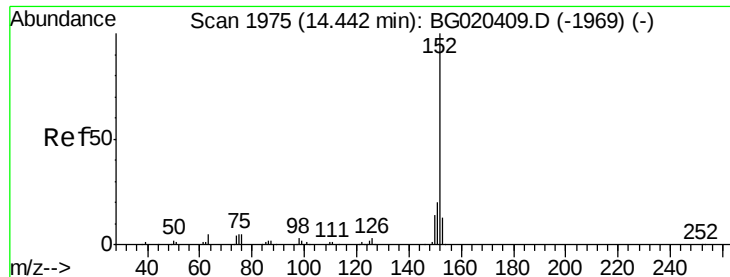
Tgt Ion:154 Resp: 231735
 Ion Ratio Lower Upper
 154 100
 153 41.5 35.5 53.3
 76 11.2 10.4 15.6



#45
 Dimethylphthalate
 Concen: 3.24 ng/ul
 RT: 14.17 min Scan# 1928
 Delta R.T. -0.00 min
 Lab File: BG020411.D
 Acq: 22 Dec 2015 16:16

Tgt Ion:163 Resp: 15952
 Ion Ratio Lower Upper
 163 100
 194 4.2 3.5 5.3
 164 10.4 7.7 11.5





#48

Acenaphthylene

Concen: 11.60 ng/ul

RT: 14.44 min Scan# 1975

Delta R.T. -0.00 min

Lab File: BG020411.D

Acq: 22 Dec 2015 16:16

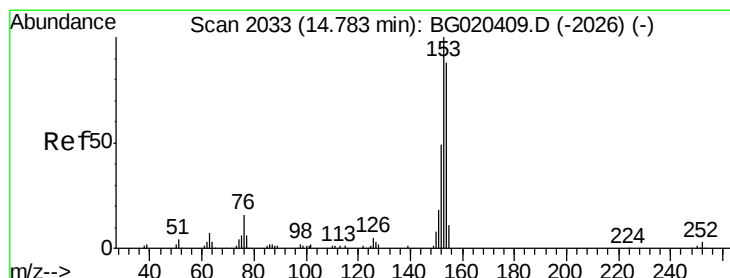
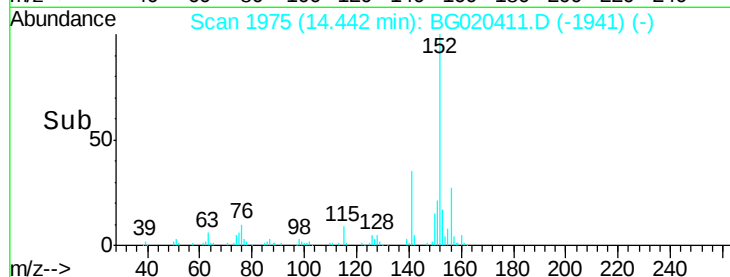
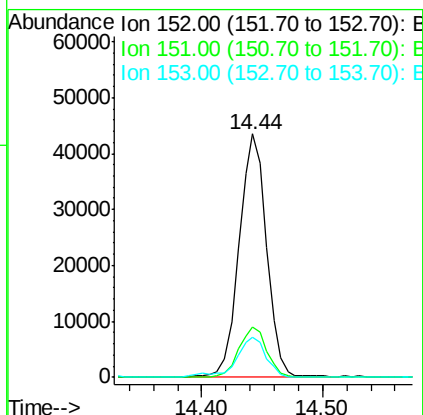
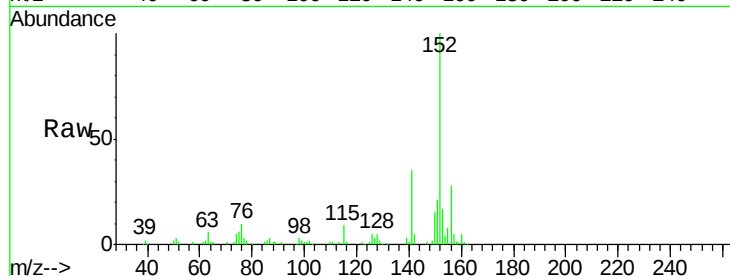
Instrument :

BNA_G

ClientSampleId :

D9N50ME

Tgt Ion:	152	Resp:	69196
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.4	24.6
153	16.6	10.4	15.6#



#50

Acenaphthene

Concen: 247.98 ng/ul

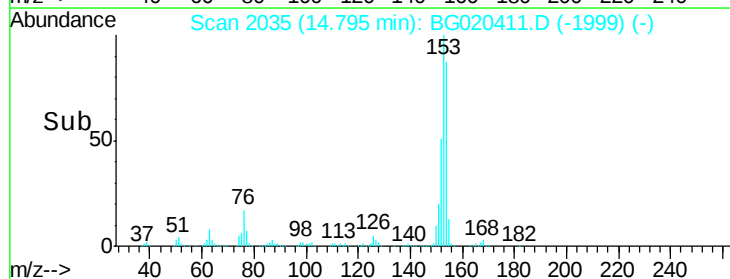
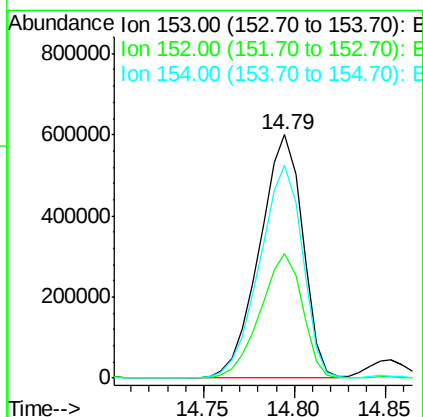
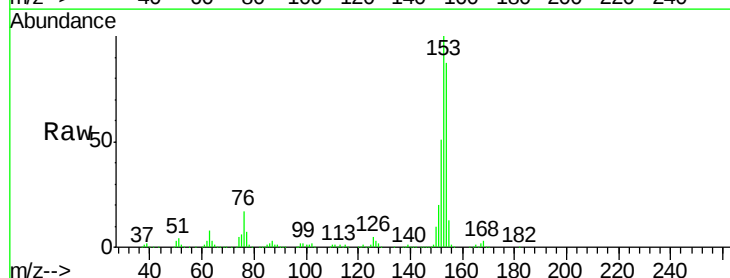
RT: 14.79 min Scan# 2035

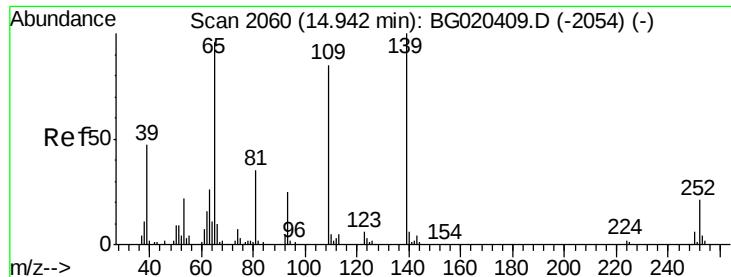
Delta R.T. 0.01 min

Lab File: BG020411.D

Acq: 22 Dec 2015 16:16

Tgt Ion:	153	Resp:	995221
Ion	Ratio	Lower	Upper
153	100		
152	51.2	37.6	56.4
154	87.2	67.9	101.9





#53

4-Nitrophenol

Concen: 2.55 ng/ul

RT: 14.79 min Scan# 2035

Delta R.T. -0.15 min

Lab File: BG020411.D

Acq: 22 Dec 2015 16:16

Instrument :

BNA_G

ClientSampleId :

D9N50ME

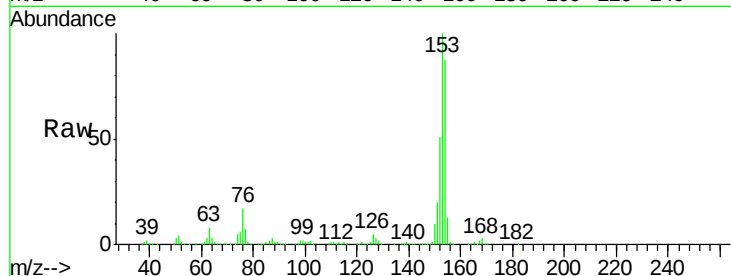
Tgt Ion:109 Resp: 2119

Ion Ratio Lower Upper

109 100

139 435.7 80.5 120.7#

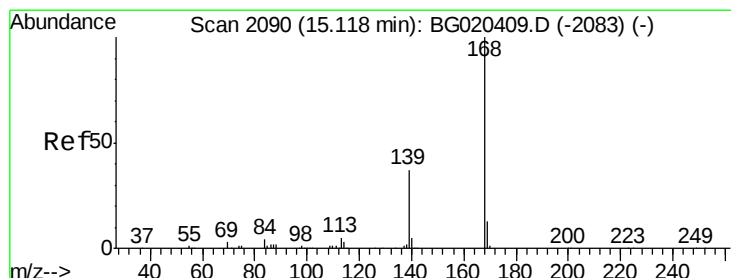
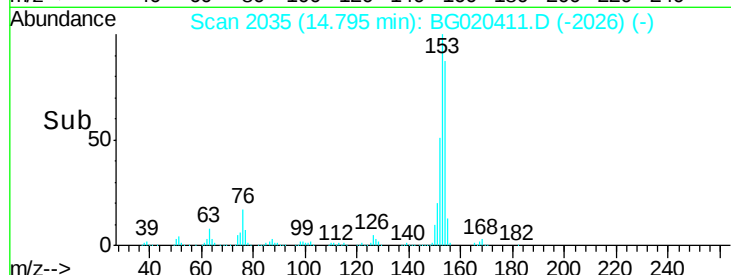
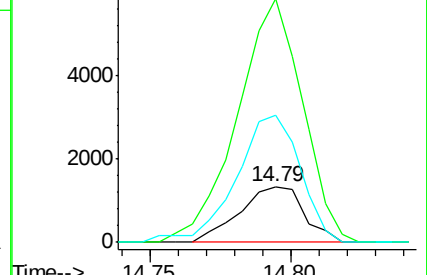
65 228.0 93.4 140.2#



Abundance Ion 109.00 (108.70 to 109.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 65.00 (64.70 to 65.70): BGC



#54

Dibenzofuran

Concen: 168.86 ng/ul

RT: 15.12 min Scan# 2091

Delta R.T. 0.01 min

Lab File: BG020411.D

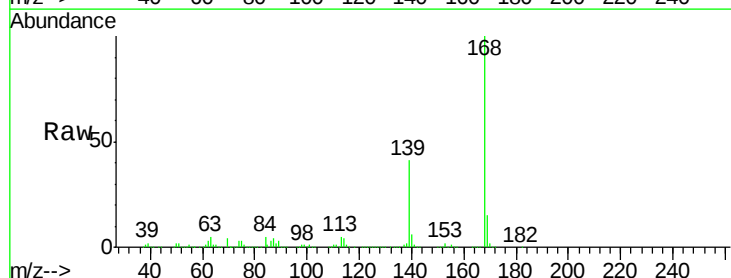
Acq: 22 Dec 2015 16:16

Tgt Ion:168 Resp: 1008144

Ion Ratio Lower Upper

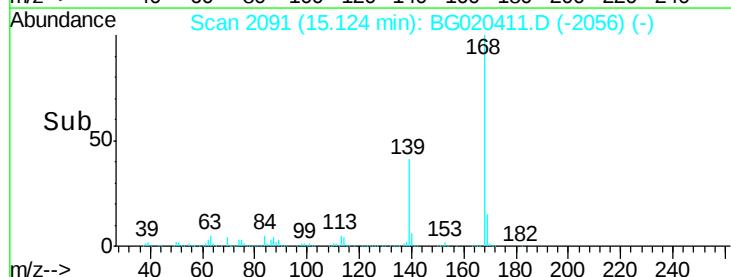
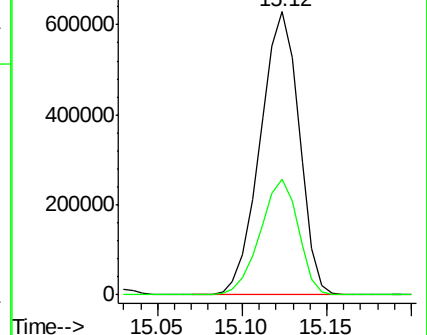
168 100

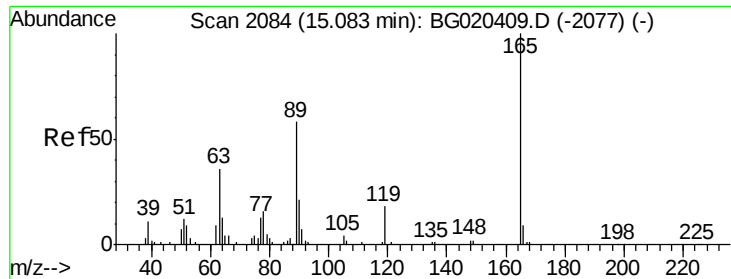
139 40.7 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

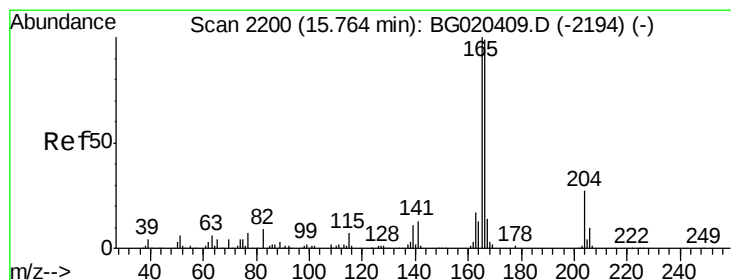
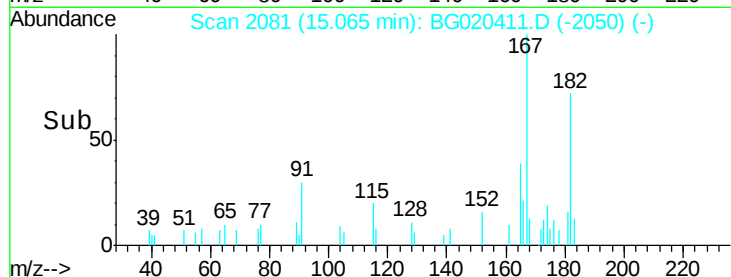
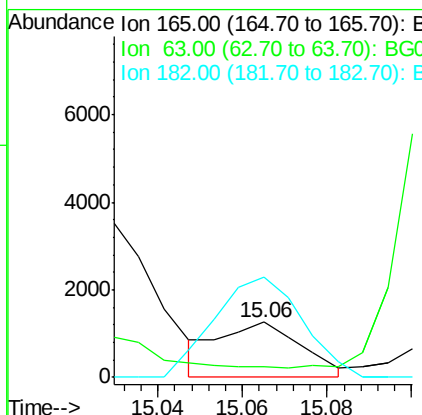
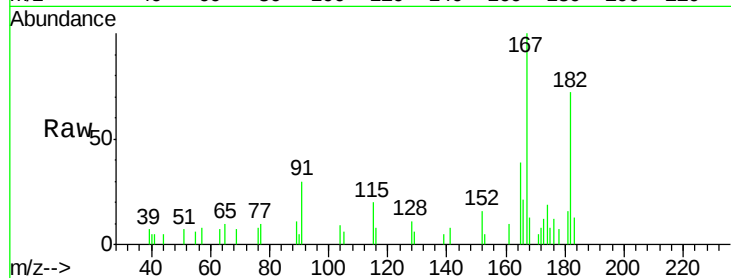




#55
2,4-Dinitrotoluene
Concen: 1.14 ng/ul
RT: 15.06 min Scan# 2081
Delta R.T. -0.02 min
Lab File: BG020411.D
Acq: 22 Dec 2015 16:16

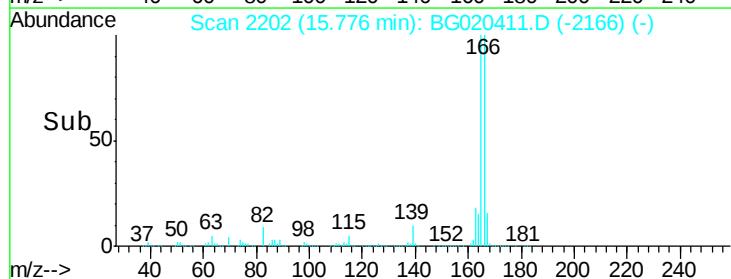
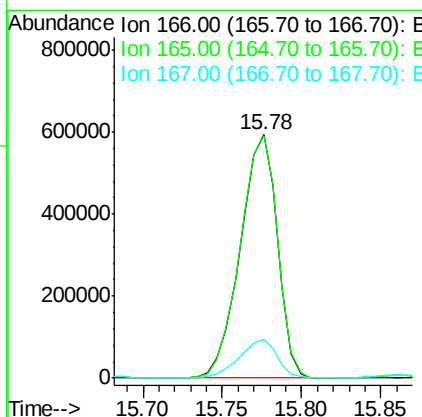
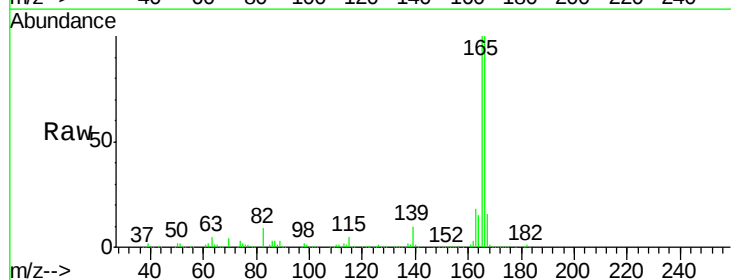
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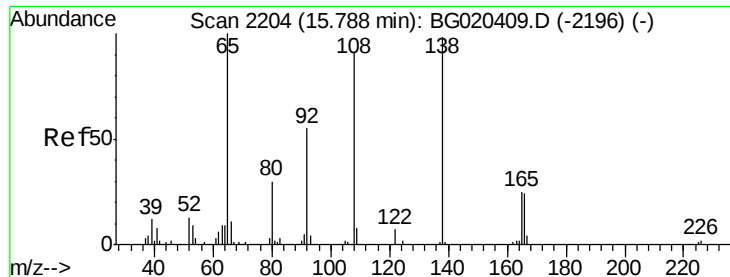
Tgt Ion:165 Resp: 1704
Ion Ratio Lower Upper
165 100
63 18.3 35.8 53.8#
182 183.5 2.2 3.2#



#59
Fluorene
Concen: 200.16 ng/ul
RT: 15.78 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BG020411.D
Acq: 22 Dec 2015 16:16

Tgt Ion:166 Resp: 959631
Ion Ratio Lower Upper
166 100
165 99.8 81.4 122.0
167 15.8 11.2 16.8





#61

4-Nitroaniline

Concen: 11.70 ng/ul

RT: 15.78 min Scan# 2202

Delta R.T. -0.01 min

Lab File: BG020411.D

Acq: 22 Dec 2015 16:16

Instrument :

BNA_G

ClientSampleId :

D9N50ME

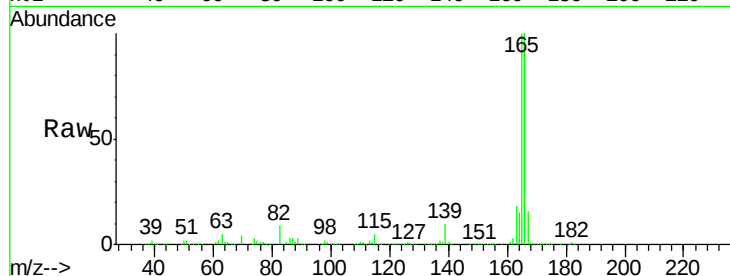
Tgt Ion:138 Resp: 12523

Ion Ratio Lower Upper

138 100

92 0.0 45.2 67.8#

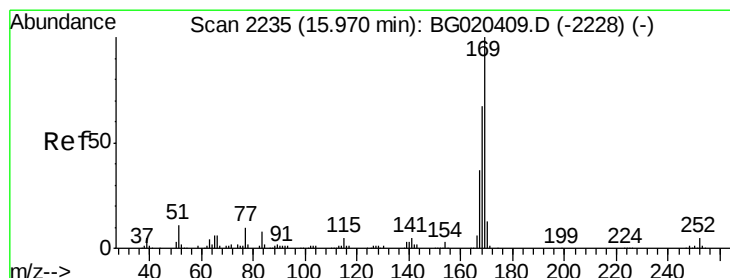
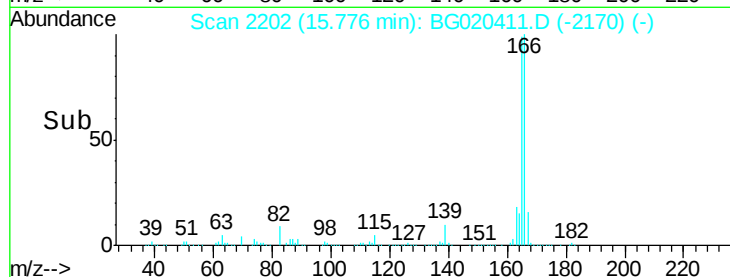
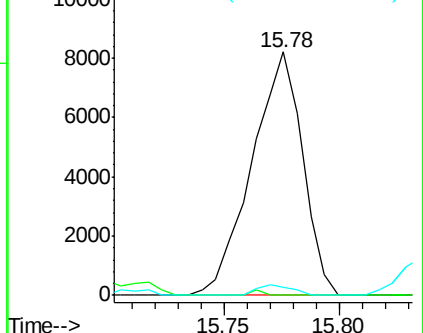
108 3.2 75.4 113.0#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BGC

Ion 108.00 (107.70 to 108.70): E



#65

N-Nitrosodiphenylamine

Concen: 1.37 ng/ul

RT: 15.97 min Scan# 2235

Delta R.T. -0.00 min

Lab File: BG020411.D

Acq: 22 Dec 2015 16:16

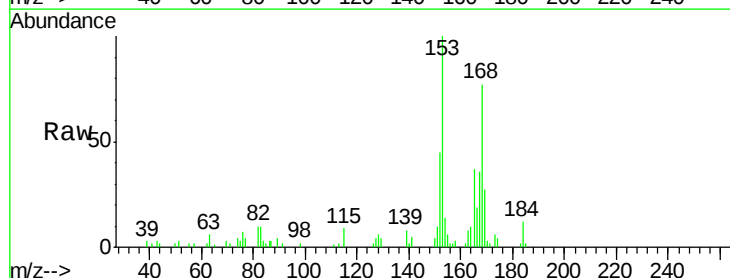
Tgt Ion:169 Resp: 4778

Ion Ratio Lower Upper

169 100

168 280.6 54.3 81.5#

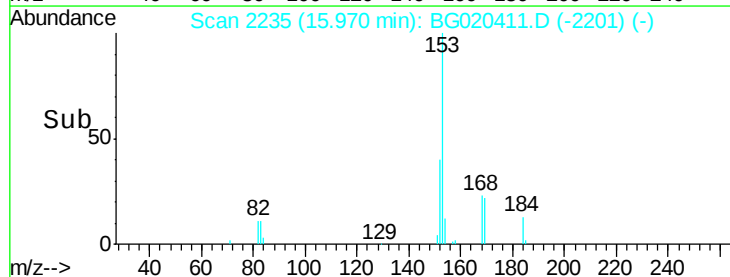
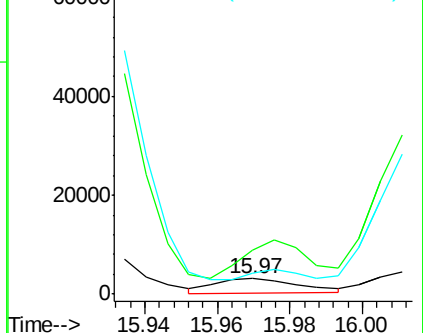
167 132.4 31.8 47.8#

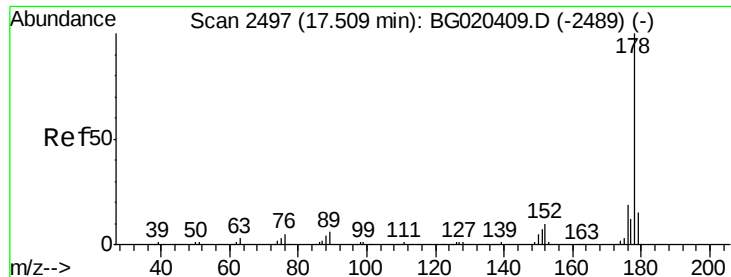


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E

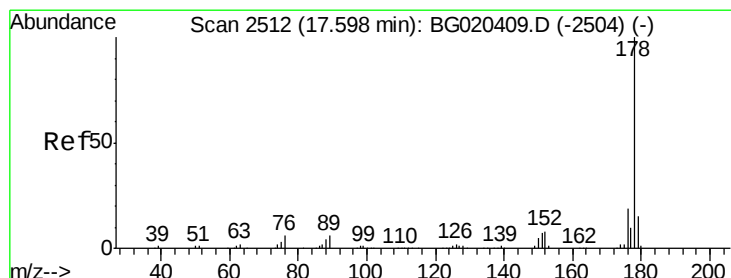
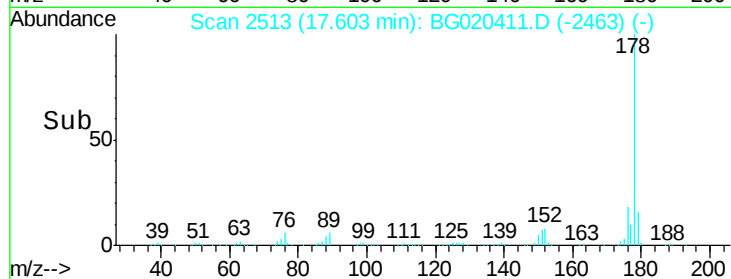
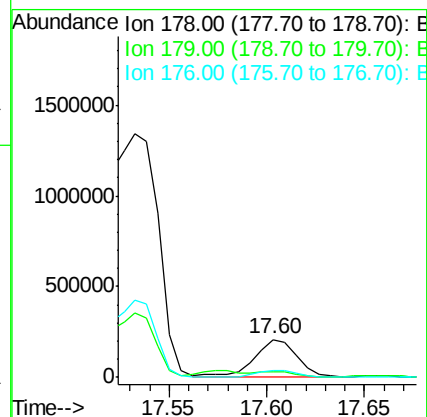
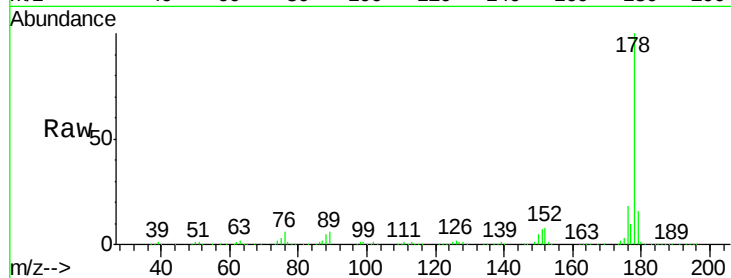




#70
Phenanthrene
Concen: 45.63 ng/ul
RT: 17.60 min Scan# 2513
Delta R.T. 0.09 min
Lab File: BG020411.D
Acq: 22 Dec 2015 16:16

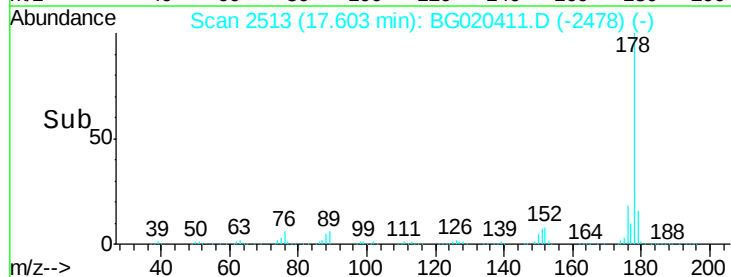
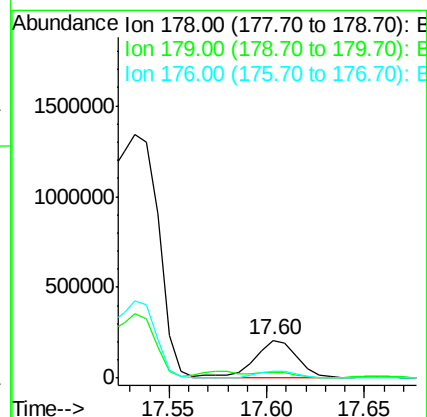
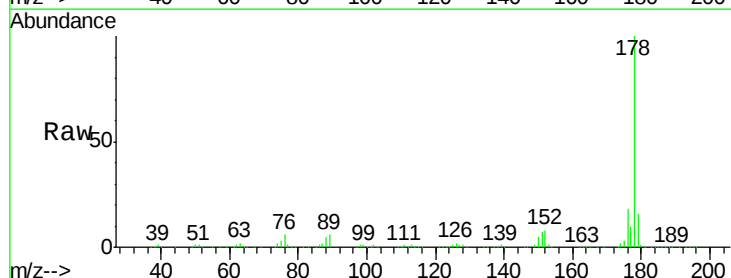
Instrument :
BNA_G
ClientSampleId :
D9N50ME

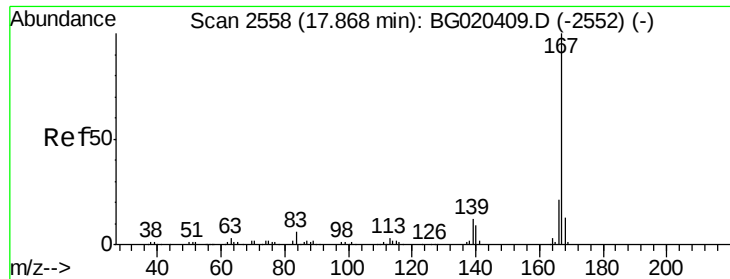
Tgt Ion:178 Resp: 313563
Ion Ratio Lower Upper
178 100
179 16.0 12.9 19.3
176 18.3 15.3 22.9



#72
Anthracene
Concen: 44.98 ng/ul
RT: 17.60 min Scan# 2513
Delta R.T. 0.01 min
Lab File: BG020411.D
Acq: 22 Dec 2015 16:16

Tgt Ion:178 Resp: 313563
Ion Ratio Lower Upper
178 100
179 16.0 12.3 18.5
176 18.3 14.3 21.5





#75

Carbazole

Concen: 32.14 ng/ul

RT: 17.87 min Scan# 2558

Delta R.T. -0.00 min

Lab File: BG020411.D

Acq: 22 Dec 2015 16:16

Instrument :

BNA_G

ClientSampleId :

D9N50ME

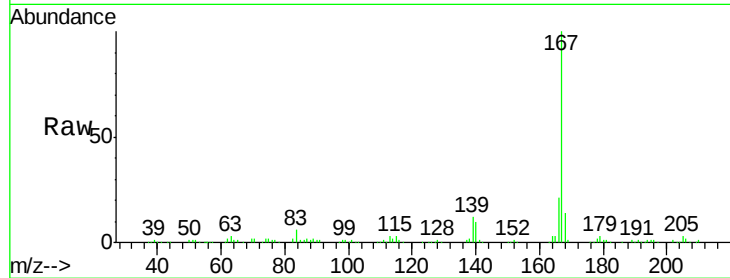
Tgt Ion:167 Resp: 188214

Ion Ratio Lower Upper

167 100

166 21.1 17.0 25.6

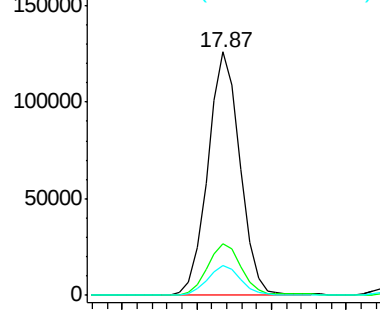
139 12.0 10.1 15.1



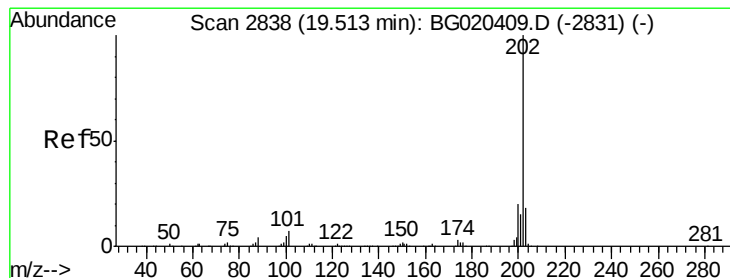
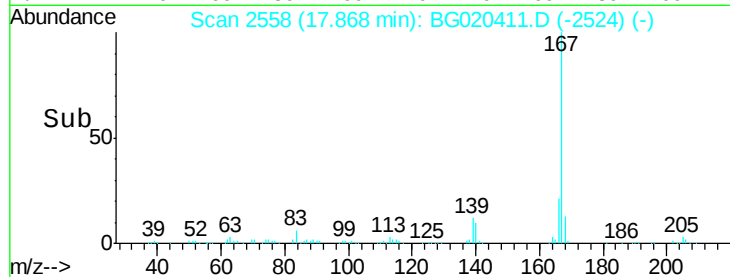
Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



Time--> 17.80 17.85 17.90 17.95



#77

Fluoranthene

Concen: 258.66 ng/ul

RT: 19.52 min Scan# 2840

Delta R.T. 0.01 min

Lab File: BG020411.D

Acq: 22 Dec 2015 16:16

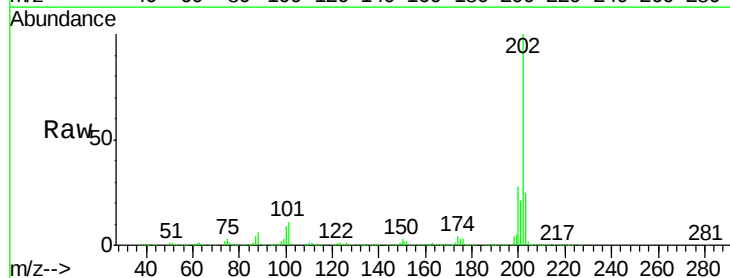
Tgt Ion:202 Resp: 2077510

Ion Ratio Lower Upper

202 100

101 10.6 6.2 9.4#

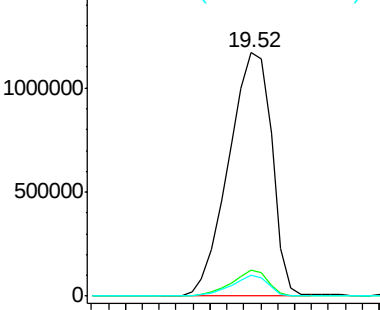
100 8.6 5.1 7.7#



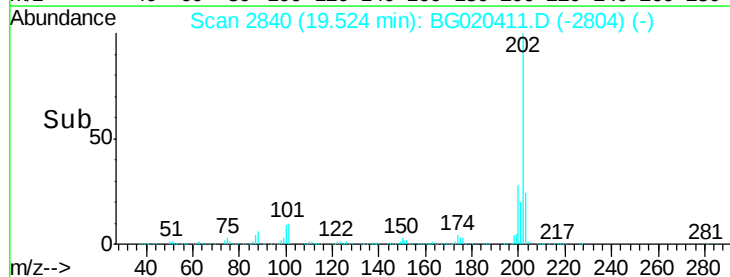
Abundance Ion 202.00 (201.70 to 202.70): E

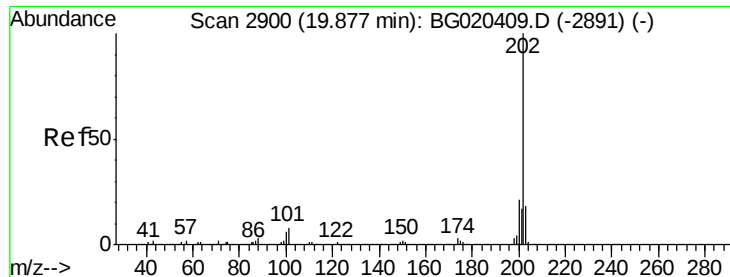
Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



Time--> 19.45 19.50 19.55

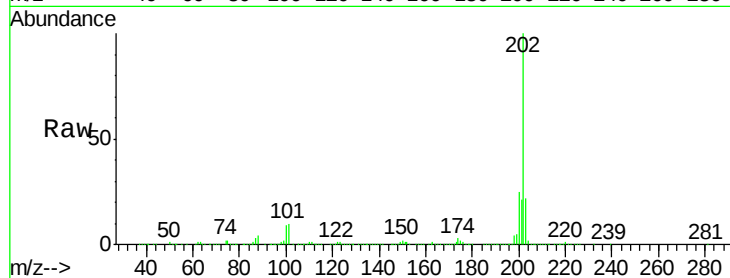




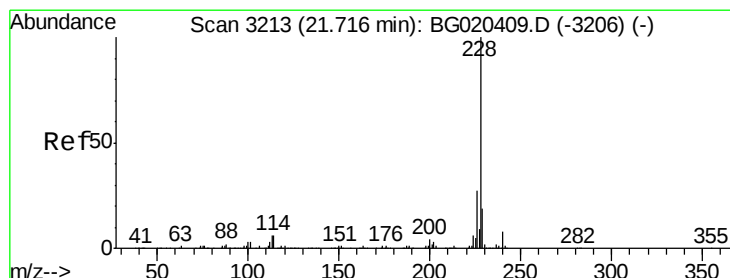
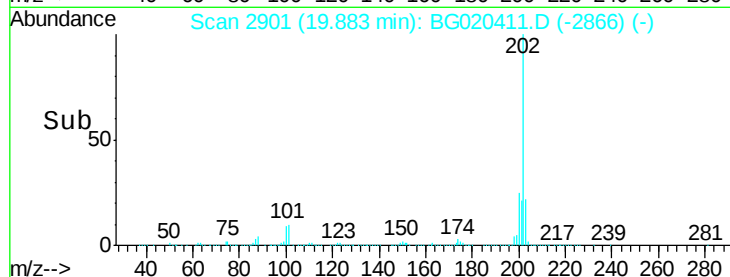
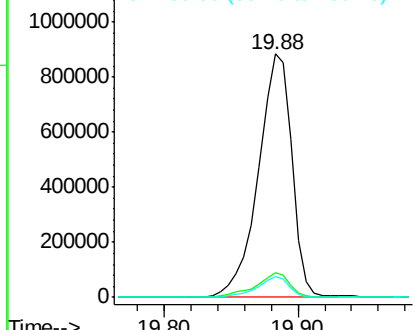
#80
 Pyrene
 Concen: 162.63 ng/ul
 RT: 19.88 min Scan# 2901
 Delta R.T. 0.01 min
 Lab File: BG020411.D
 Acq: 22 Dec 2015 16:16

Instrument :
 BNA_G
 ClientSampleId :
 D9N50ME

Tgt Ion:202 Resp: 1535590
 Ion Ratio Lower Upper
 202 100
 101 10.3 7.0 10.4
 100 8.7 6.4 9.6

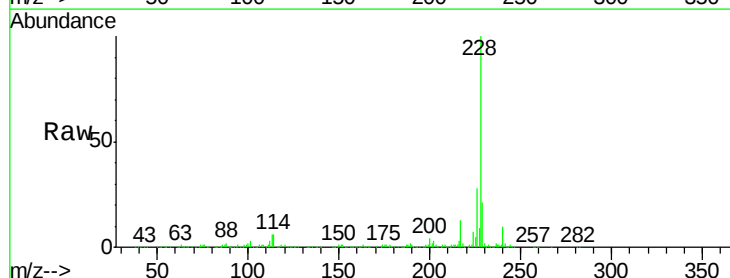


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 100.00 (99.70 to 100.70): B

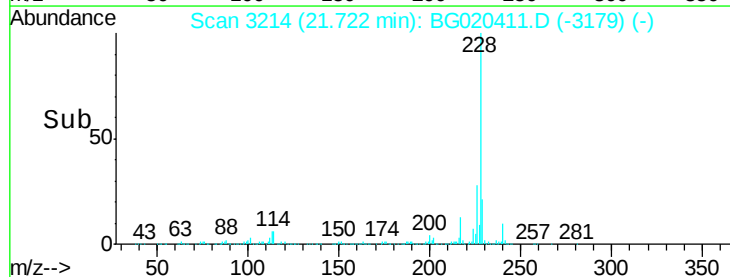
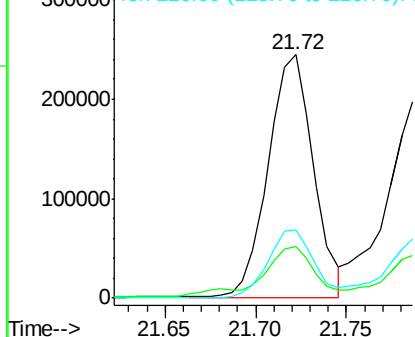


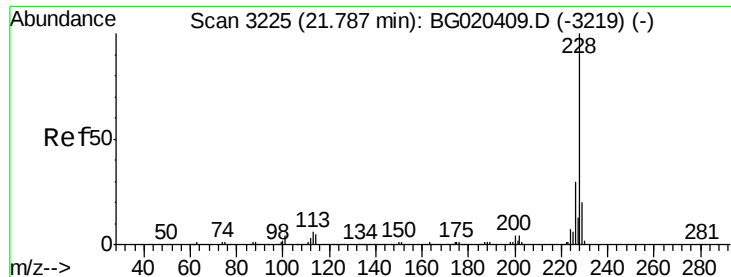
#83
 Benzo(a)anthracene
 Concen: 46.77 ng/ul
 RT: 21.72 min Scan# 3214
 Delta R.T. 0.01 min
 Lab File: BG020411.D
 Acq: 22 Dec 2015 16:16

Tgt Ion:228 Resp: 425791
 Ion Ratio Lower Upper
 228 100
 229 21.3 15.8 23.8
 226 27.8 21.8 32.6



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

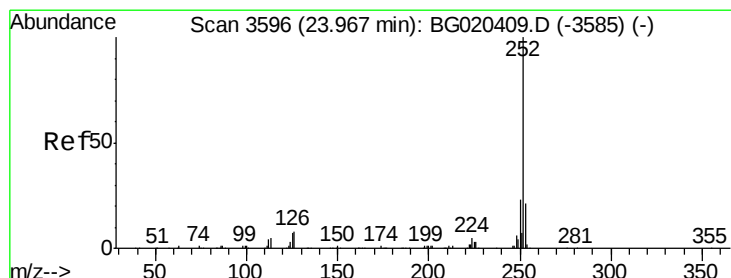
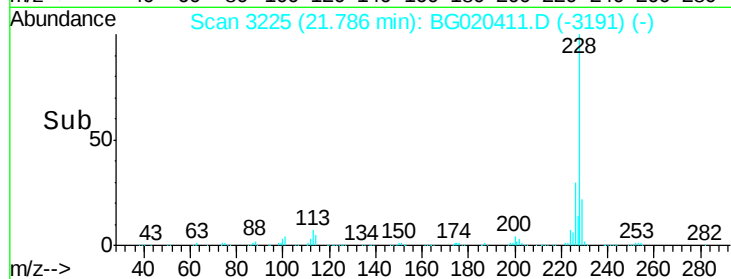
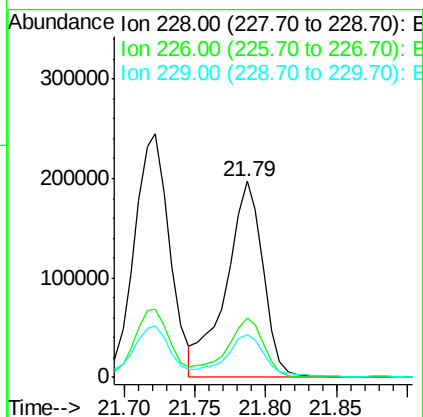
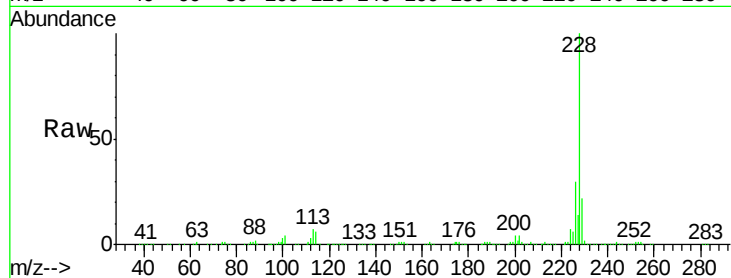




#85
 Chrysene
 Concen: 41.70 ng/ul
 RT: 21.79 min Scan# 3225
 Delta R.T. -0.00 min
 Lab File: BG020411.D
 Acq: 22 Dec 2015 16:16

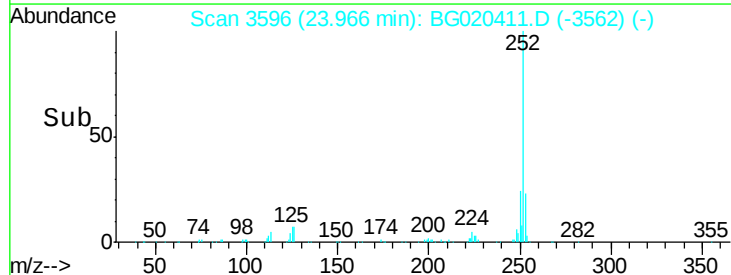
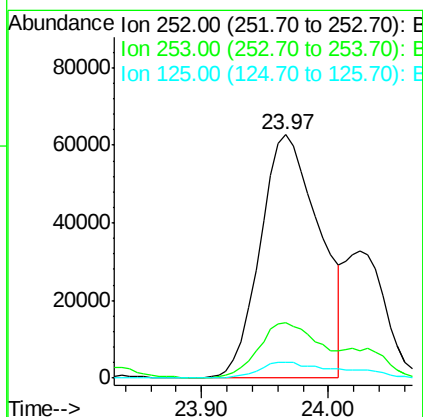
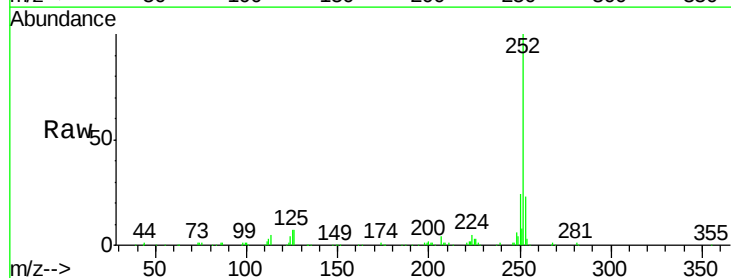
Instrument :
 BNA_G
 ClientSampleId :
 D9N50ME

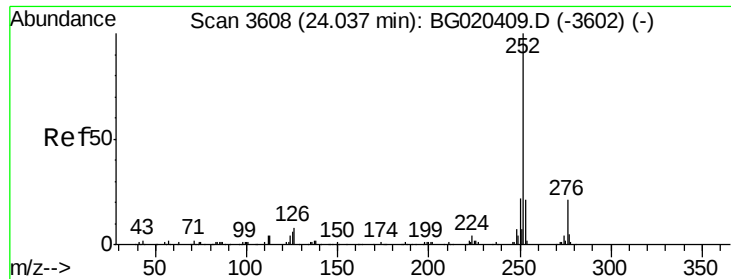
Tgt Ion: 228 Resp: 357502
 Ion Ratio Lower Upper
 228 100
 226 30.1 23.9 35.9
 229 21.9 15.6 23.4



#88
 Benzo(b)fluoranthene
 Concen: 22.22 ng/ul
 RT: 23.97 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: BG020411.D
 Acq: 22 Dec 2015 16:16

Tgt Ion: 252 Resp: 204210
 Ion Ratio Lower Upper
 252 100
 253 22.8 16.7 25.1
 125 6.5 6.2 9.2





#89

Benzo(k)fluoranthene

Concen: 23.15 ng/ul

RT: 23.97 min Scan# 3596

Delta R.T. -0.07 min

Lab File: BG020411.D

Acq: 22 Dec 2015 16:16

Instrument :

BNA_G

ClientSampleId :

D9N50ME

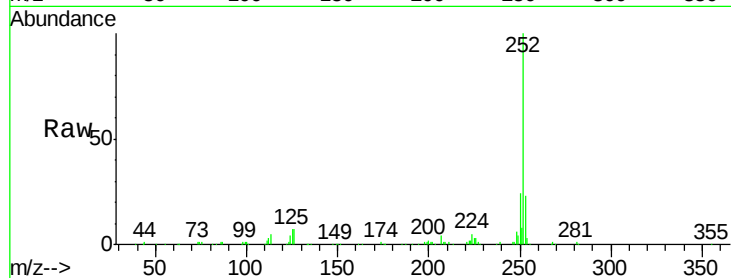
Tgt Ion:252 Resp: 204210

Ion Ratio Lower Upper

252 100

253 22.8 17.9 26.9

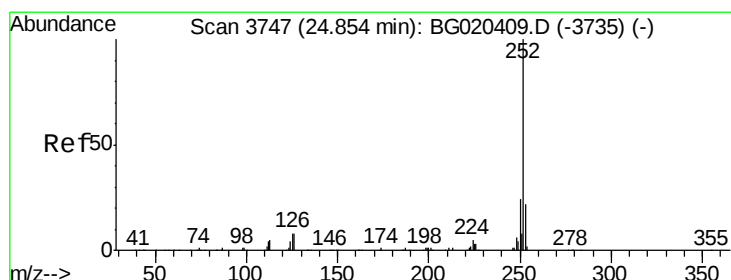
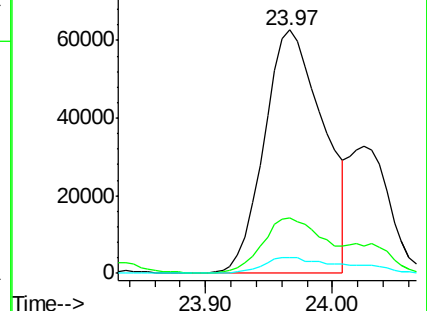
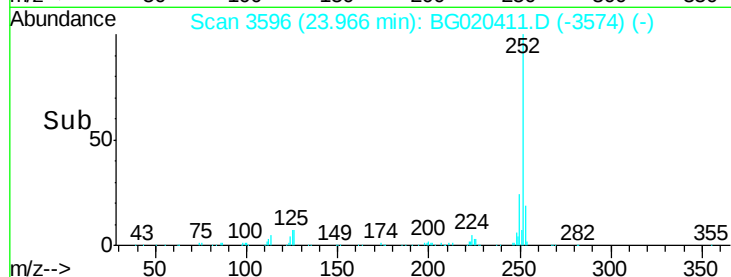
125 6.5 5.8 8.6



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: 13.14 ng/ul

RT: 24.85 min Scan# 3746

Delta R.T. -0.01 min

Lab File: BG020411.D

Acq: 22 Dec 2015 16:16

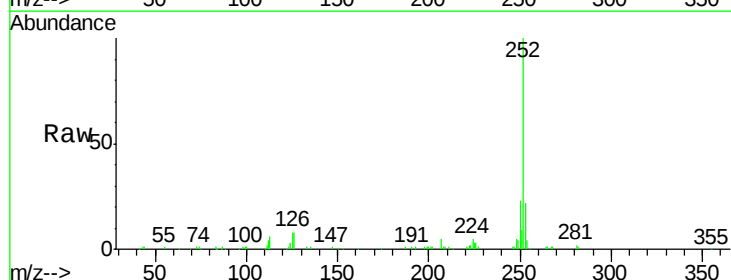
Tgt Ion:252 Resp: 114514

Ion Ratio Lower Upper

252 100

253 22.0 17.0 25.4

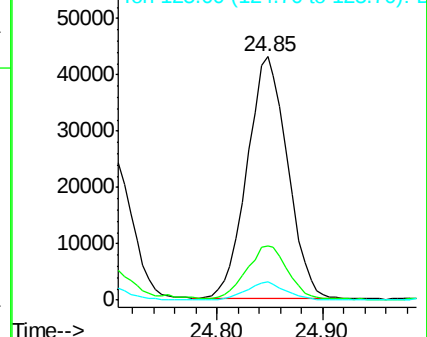
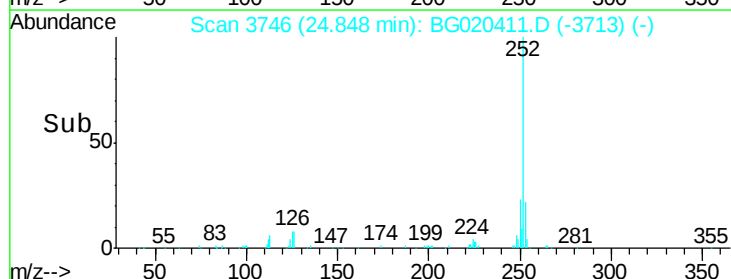
125 7.7 6.2 9.4

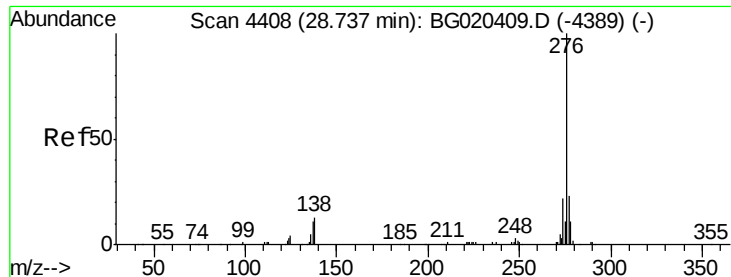


Abundance Ion 252.00 (251.70 to 252.70): E

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: 1.61 ng/ul

RT: 28.71 min Scan# 4404

Delta R.T. -0.02 min

Lab File: BG020411.D

Acq: 22 Dec 2015 16:16

Instrument :

BNA_G

ClientSampleId :

D9N50ME

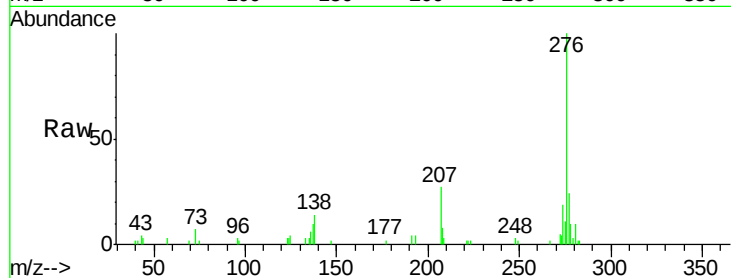
Tgt Ion:276 Resp: 16731

Ion Ratio Lower Upper

276 100

138 13.7 11.4 17.0

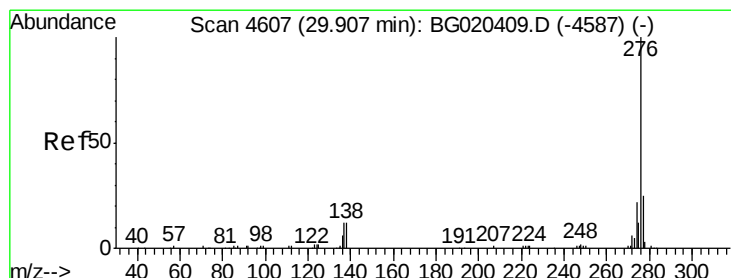
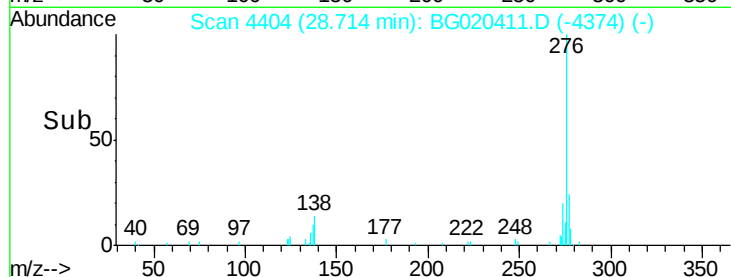
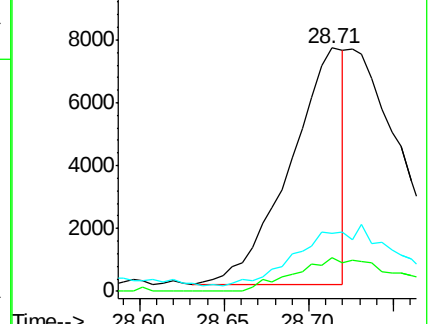
277 23.6 17.4 26.0



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



#94

Benzo(g,h,i)perylene

Concen: 3.06 ng/ul

RT: 29.88 min Scan# 4603

Delta R.T. -0.02 min

Lab File: BG020411.D

Acq: 22 Dec 2015 16:16

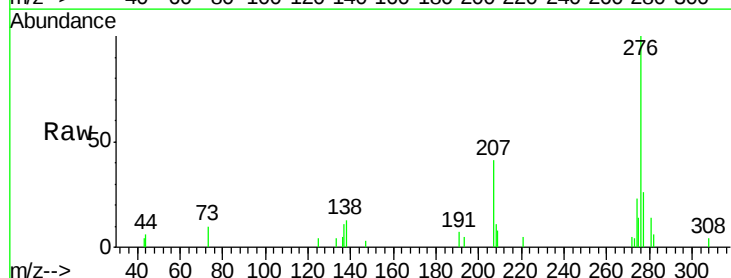
Tgt Ion:276 Resp: 26021

Ion Ratio Lower Upper

276 100

138 13.3 10.8 16.2

277 26.0 19.9 29.9



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

