

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032416\
 Data File : BG021503.D
 Acq On : 25 Mar 2016 3:00
 Operator : UM/SJ
 Sample : H1909-05
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 A4T41

Quant Time: Mar 25 04:22:51 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG031616.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Mar 25 01:20:42 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ng/ul	-8.06
18) Naphthalene-d8	10.87	136	1066	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.68	164	699	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.42	188	1713	20.00	ng/ul	0.00
78) Chrysene-d12	21.66	240	2144	20.00	ng/ul	0.00
86) Perylene-d12	24.88	264	2249	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	773	0.00	ng/uL	0.00
5) Phenol-d5	7.34	99	18590	0.00	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.39	67	12316	0.00	ng/ul	0.00
9) 2-Chlorophenol-d4	7.64	132	15277	0.00	ng/ul	0.00
13) 4-Methylphenol-d8	8.84	113	16280	0.00	ng/ul	0.00
19) Nitrobenzene-d5	9.23	128	8558	1070.05	ng/ul	0.00
22) 2-Nitrophenol-d4	9.95	143	8756	957.80	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.57	165	16968	1038.32	ng/ul	0.00
29) 4-Chloroaniline-d4	11.01	131	20321	951.19	ng/ul	0.00
44) Dimethylphthalate-d6	14.08	166	61823	1062.20	ng/ul	0.00
47) Acenaphthylene-d8	14.37	160	75123	1047.11	ng/ul	0.00
52) 4-Nitrophenol-d4	15.09	143	6290	676.12	ng/ul	0.02
58) Fluorene-d10	15.67	176	54759	1043.51	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.79	200	8594	759.40	ng/ul	0.00
71) Anthracene-d10	17.51	188	86511	1030.58	ng/ul	0.00
79) Pyrene-d10	19.79	212	98500	985.21	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.66	264	103412	996.27	ng/ul	0.00

Target Compounds

						Qvalue
21) Isophorone	9.95	82	975	22.39	ng/ul#	69
28) Naphthalene	10.92	128	1633	28.89	ng/ul#	69
34) 2-Methylnaphthalene	12.52	142	164	3.91	ng/ul#	69
35) 1-Methylnaphthalene	12.73	142	134	3.29	ng/ul#	87
45) Dimethylphthalate	14.13	163	15576	257.55	ng/ul	98
48) Acenaphthylene	14.40	152	1820	25.60	ng/ul	99
50) Acenaphthene	14.74	153	491	10.01	ng/ul#	67
54) Dibenzofuran	15.07	168	730	10.63	ng/ul	90
57) Diethylphthalate	15.48	149	345	5.34	ng/ul#	59
59) Fluorene	15.72	166	1023	17.04	ng/ul#	65
70) Phenanthrene	17.46	178	25663	264.54	ng/ul	97
72) Anthracene	17.46	178	25663	259.99	ng/ul	99
75) Carbazole	17.83	167	1511	17.69	ng/ul#	93
76) Di-n-butylphthalate	18.36	149	817	7.41	ng/ul#	77
77) Fluoranthene	19.46	202	78423	669.87	ng/ul#	95
80) Pyrene	19.82	202	65520	512.89	ng/ul#	94
81) Butylbenzylphthalate	20.69	149	902	16.72	ng/ul#	91
82) 3,3'-Dichlorobenzidine	21.72	252	343	7.71	ng/ul#	85
83) Benzo(a)anthracene	21.65	228	37578	290.35	ng/ul	97
84) Bis(2-ethylhexyl)phthalate	21.53	149	2038	25.83	ng/ul#	93
85) Chrysene	21.71	228	40104	327.19	ng/ul	95
87) Di-n-octyl phthalate	22.73	149	181	1.19	ng/ul	100
88) Benzo(b)fluoranthene	23.87	252	50395	348.84	ng/ul	98

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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG031616.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Mar 25 01:20:42 2016
Response via : Initial Calibration

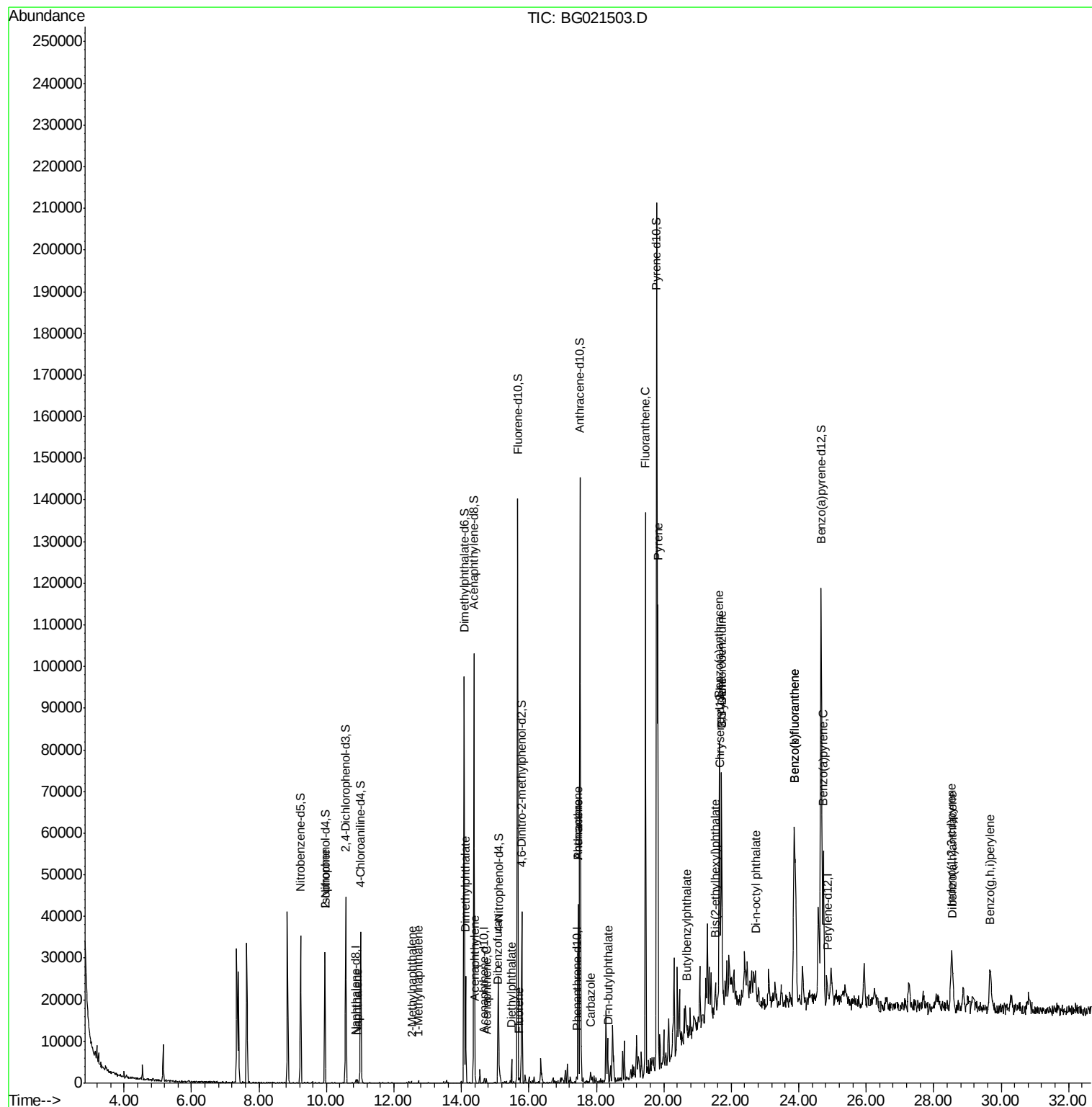
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Benzo(k)fluoranthene	23.87	252	50395	355.13	ng/ul	99
91) Benzo(a)pyrene	24.73	252	36138	257.68	ng/ul	98
92) Indeno(1,2,3-cd)pyrene	28.53	276	23582	147.96	ng/ul	95
93) Dibenzo(a,h)anthracene	28.56	278	4017	29.63	ng/ul#	84
94) Benzo(g,h,i)perylene	29.67	276	19592	149.48	ng/ul	93

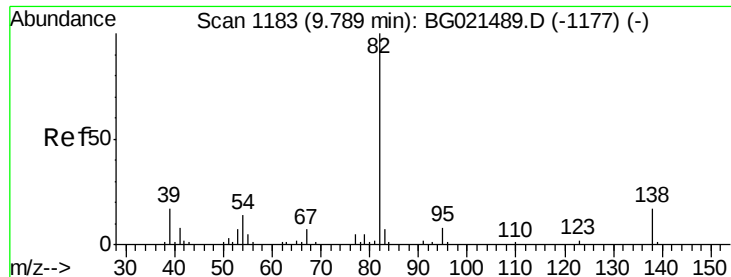
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#21

Isophorone

Concen: 22.39 ng/ul

RT: 9.95 min Scan# 1211

Delta R.T. 0.17 min

Lab File: BG021503.D

Acq: 25 Mar 2016 3:00

Instrument :

BNA_G

ClientSampled :

A4T41

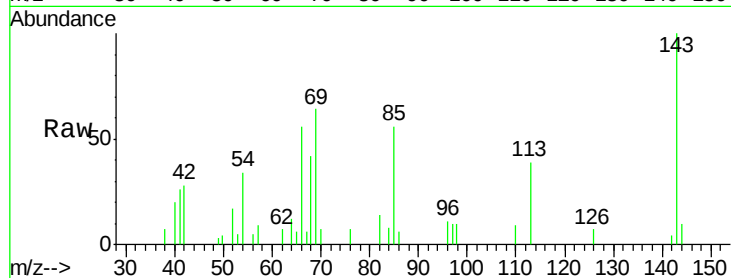
Tgt Ion: 82 Resp: 975

Ion Ratio Lower Upper

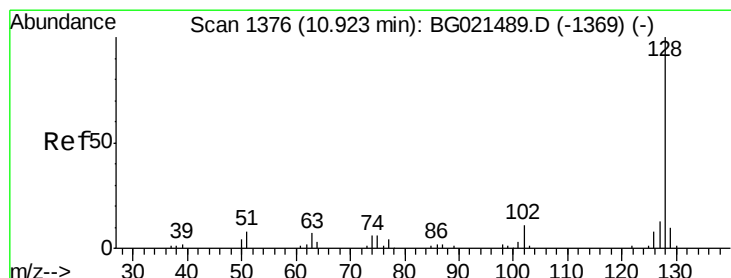
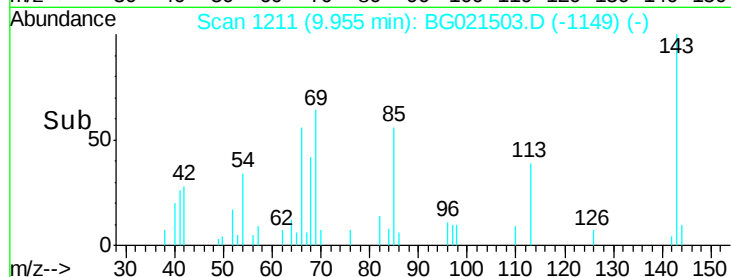
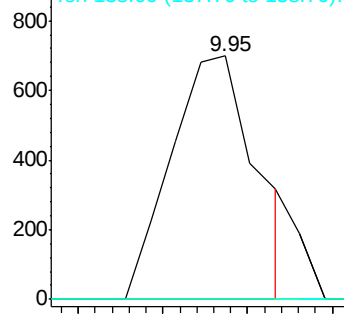
82 100

95 0.0 5.8 8.8#

138 0.0 12.2 18.2#



Abundance Ion 82.00 (81.70 to 82.70): BGC
Ion 95.00 (94.70 to 95.70): BGC
Ion 138.00 (137.70 to 138.70): BGC



#28

Naphthalene

Concen: 28.89 ng/ul

RT: 10.92 min Scan# 1375

Delta R.T. -0.00 min

Lab File: BG021503.D

Acq: 25 Mar 2016 3:00

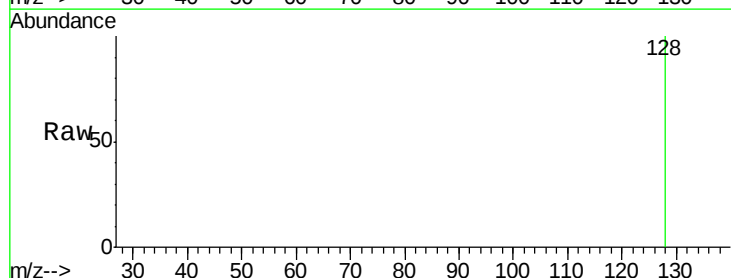
Tgt Ion: 128 Resp: 1633

Ion Ratio Lower Upper

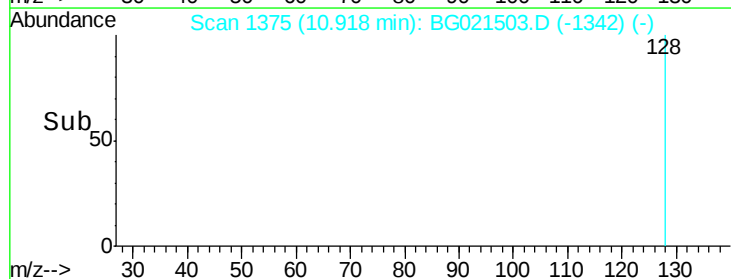
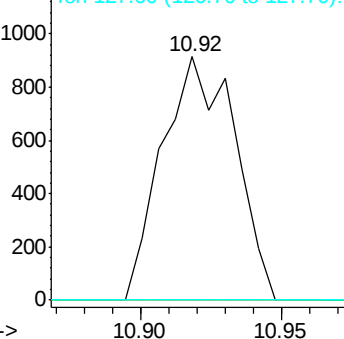
128 100

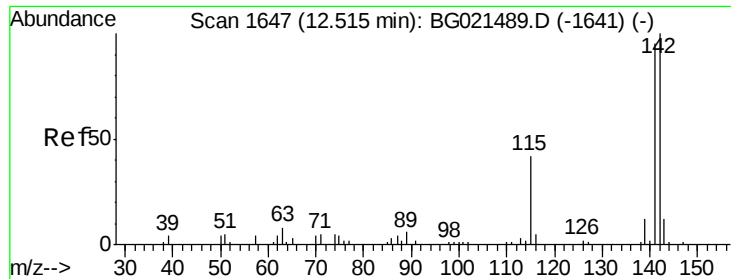
129 0.0 8.3 12.5#

127 0.0 10.8 16.2#



Abundance Ion 128.00 (127.70 to 128.70): BGC
Ion 129.00 (128.70 to 129.70): BGC
Ion 127.00 (126.70 to 127.70): BGC

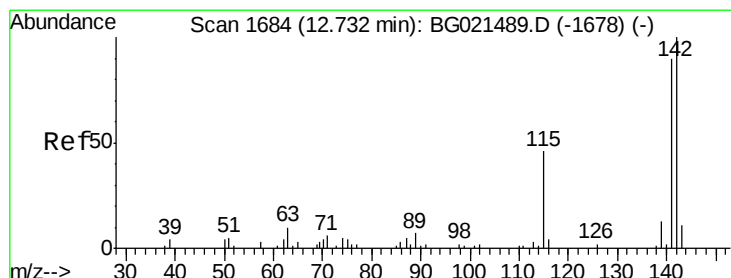
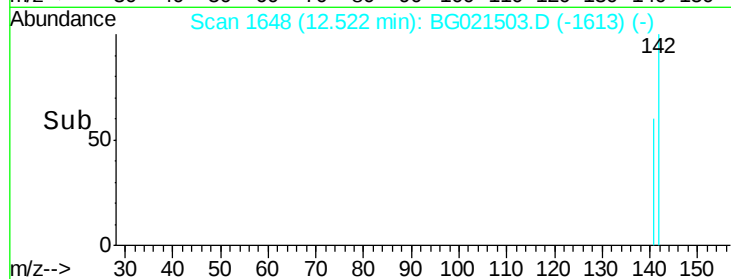
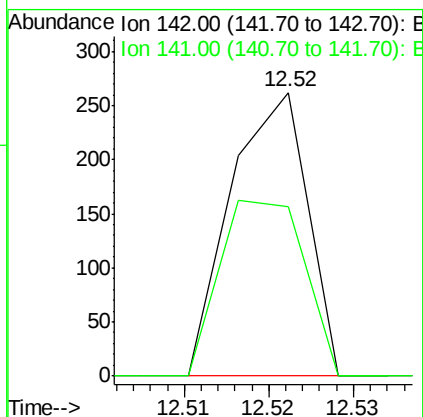
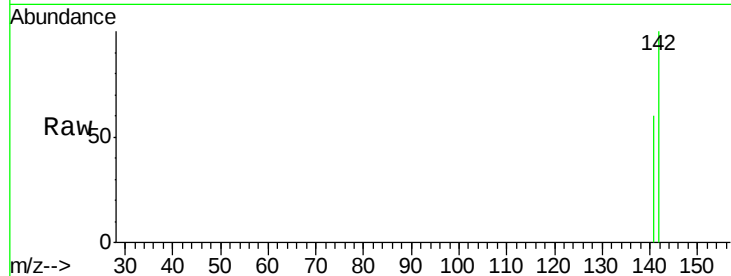




#34
2-Methylnaphthalene
Concen: 3.91 ng/ul
RT: 12.52 min Scan# 1648
Delta R.T. 0.01 min
Lab File: BG021503.D
Acq: 25 Mar 2016 3:00

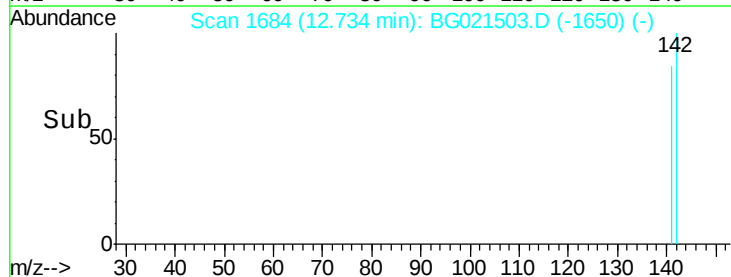
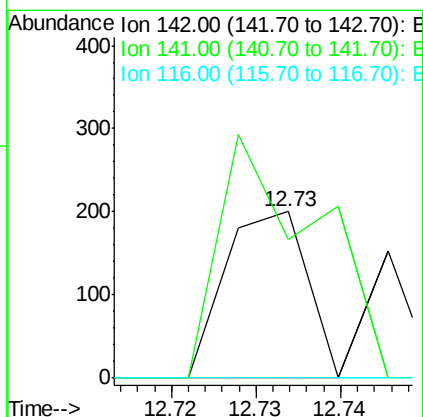
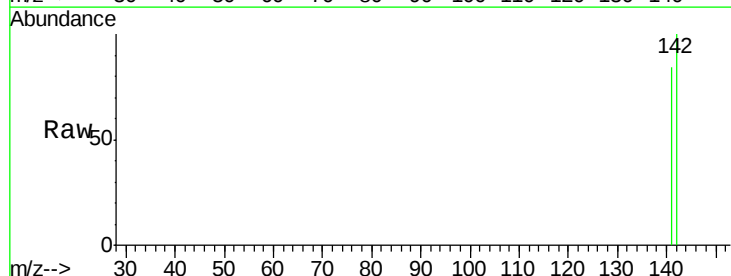
Instrument :
BNA_G
ClientSampleId :
A4T41

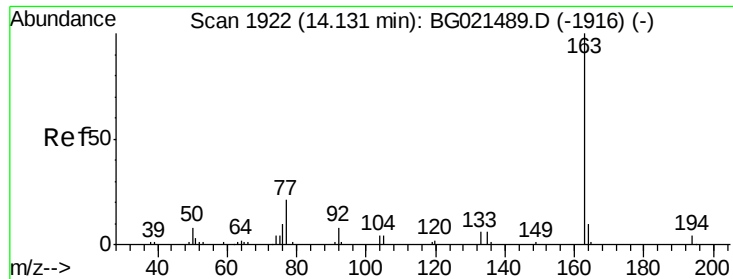
Tgt Ion:142 Resp: 164
Ion Ratio Lower Upper
142 100
141 59.9 71.3 106.9#



#35
1-Methylnaphthalene
Concen: 3.29 ng/ul
RT: 12.73 min Scan# 1684
Delta R.T. 0.00 min
Lab File: BG021503.D
Acq: 25 Mar 2016 3:00

Tgt Ion:142 Resp: 134
Ion Ratio Lower Upper
142 100
141 83.5 77.0 115.4
116 0.0 4.2 6.4#

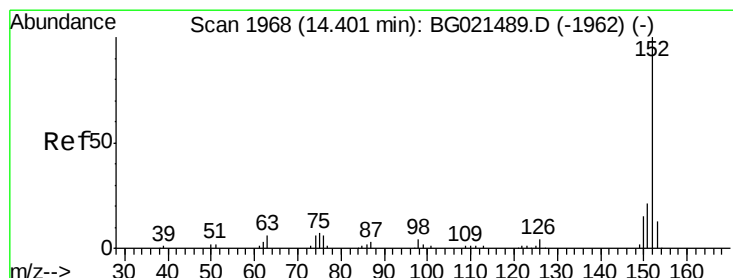
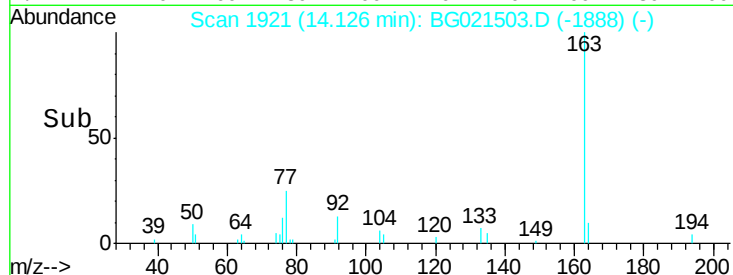
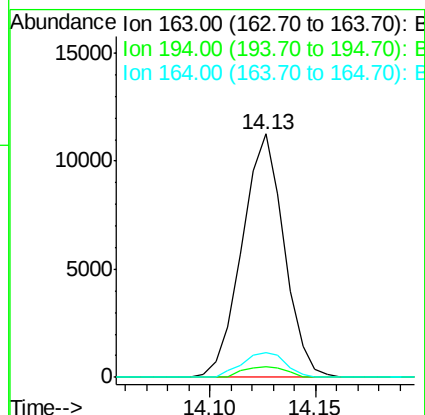
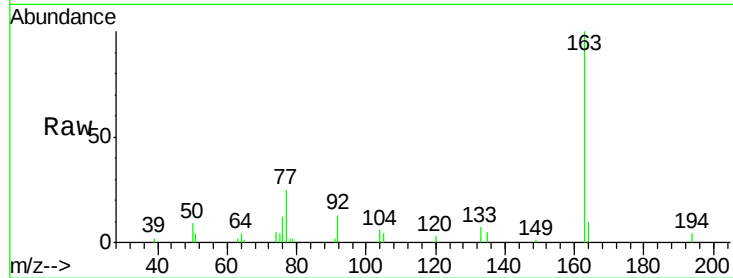




#45
Dimethylphthalate
Concen: 257.55 ng/ul
RT: 14.13 min Scan# 1921
Delta R.T. -0.00 min
Lab File: BG021503.D
Acq: 25 Mar 2016 3:00

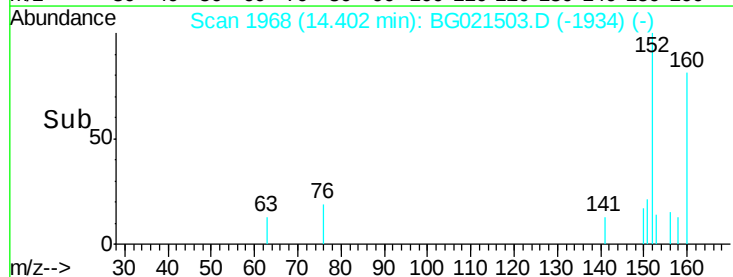
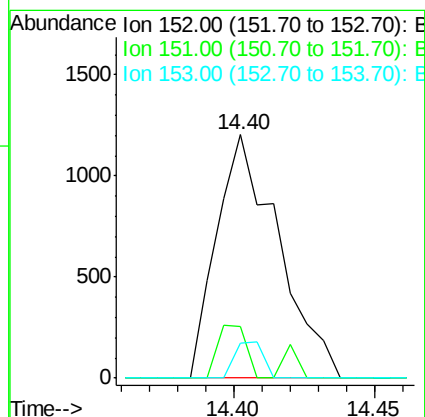
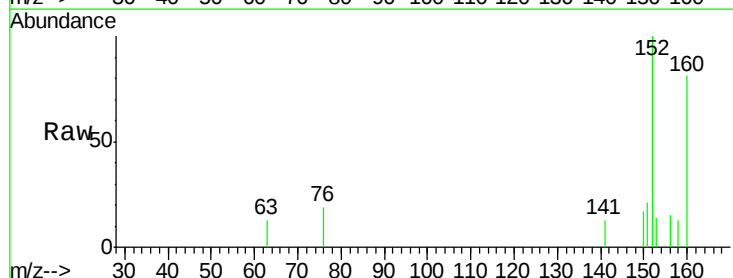
Instrument :
BNA_G
ClientSampleId :
A4T41

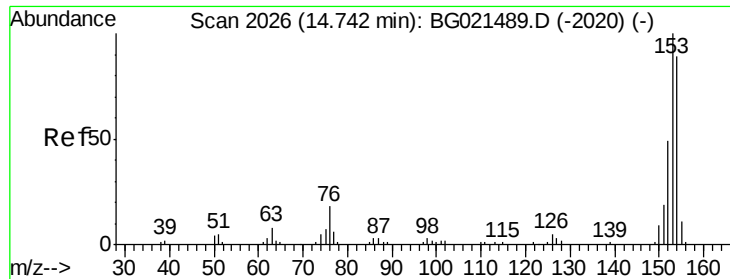
Tgt Ion:163 Resp: 15576
Ion Ratio Lower Upper
163 100
194 4.2 3.9 5.9
164 10.1 8.7 13.1



#48
Acenaphthylene
Concen: 25.60 ng/ul
RT: 14.40 min Scan# 1968
Delta R.T. 0.00 min
Lab File: BG021503.D
Acq: 25 Mar 2016 3:00

Tgt Ion:152 Resp: 1820
Ion Ratio Lower Upper
152 100
151 21.1 17.3 25.9
153 14.5 11.1 16.7





#50

Acenaphthene

Concen: 10.01 ng/ul

RT: 14.74 min Scan# 2026

Delta R.T. 0.00 min

Lab File: BG021503.D

Acq: 25 Mar 2016 3:00

Instrument :

BNA_G

ClientSampleId :

A4T41

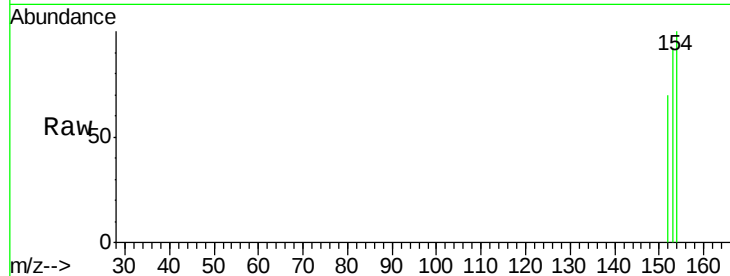
Tgt Ion:153 Resp: 491

Ion Ratio Lower Upper

153 100

152 75.7 36.5 54.7#

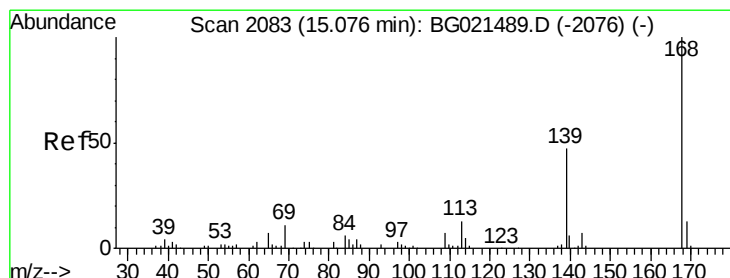
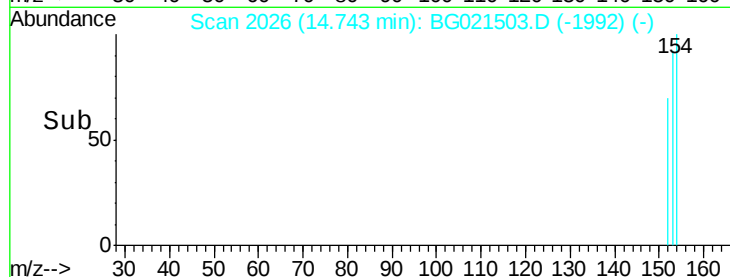
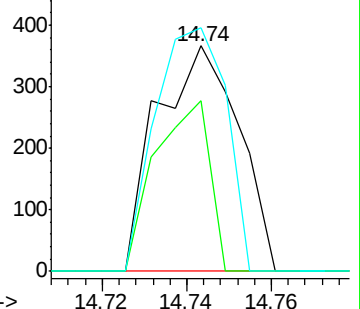
154 108.2 67.3 100.9#



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: 10.63 ng/ul

RT: 15.07 min Scan# 2082

Delta R.T. -0.00 min

Lab File: BG021503.D

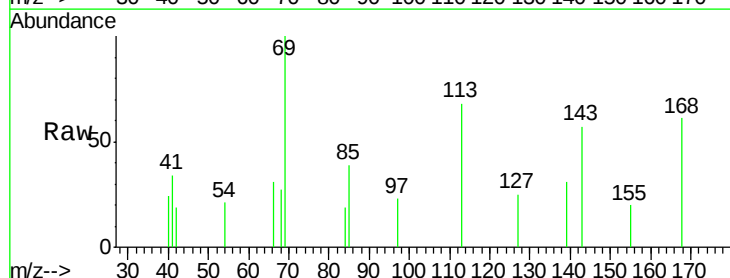
Acq: 25 Mar 2016 3:00

Tgt Ion:168 Resp: 730

Ion Ratio Lower Upper

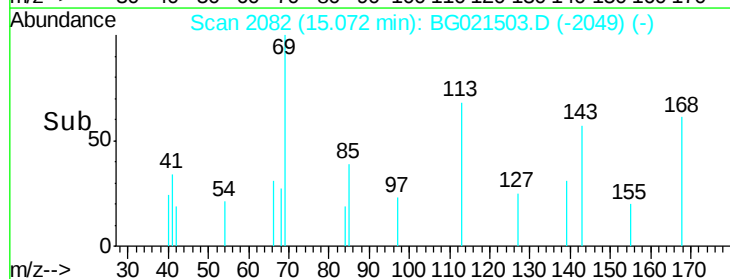
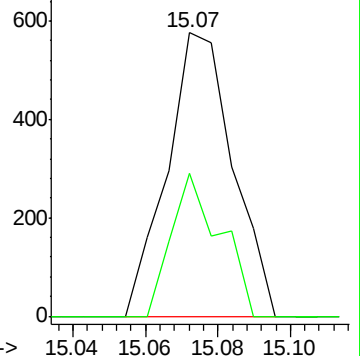
168 100

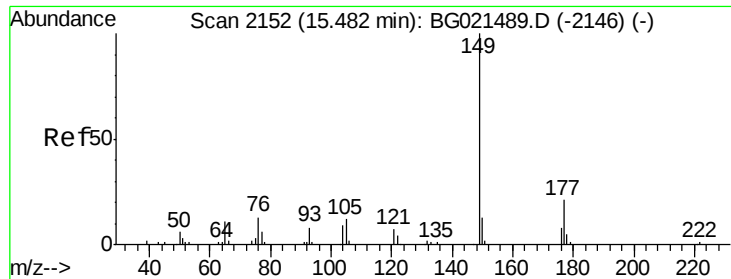
139 50.3 35.2 52.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

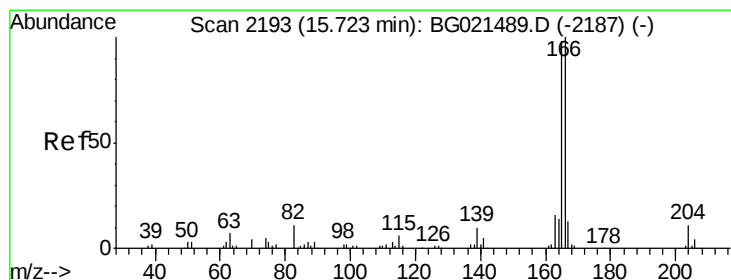
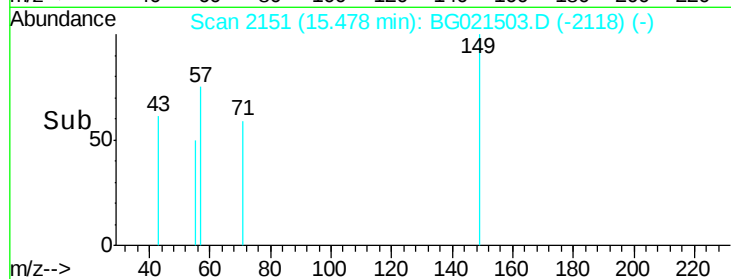
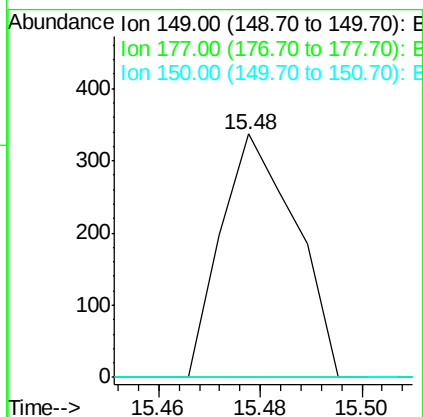
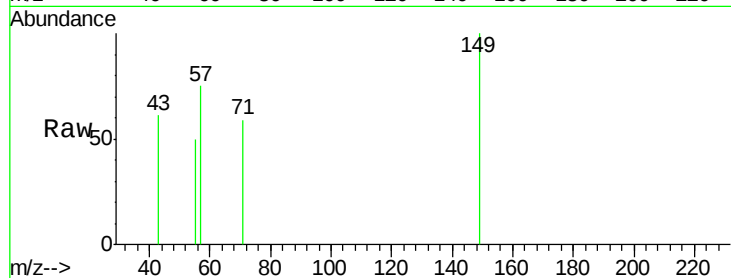




#57
Diethylphthalate
Concen: 5.34 ng/ul
RT: 15.48 min Scan# 2151
Delta R.T. -0.00 min
Lab File: BG021503.D
Acq: 25 Mar 2016 3:00

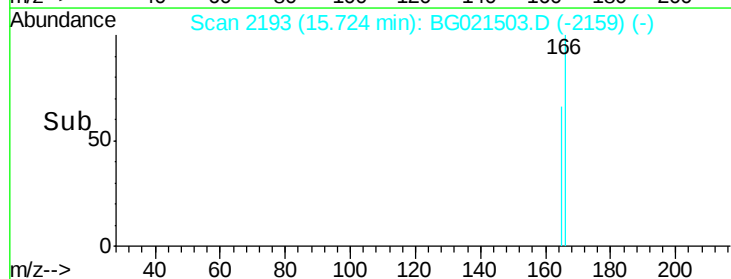
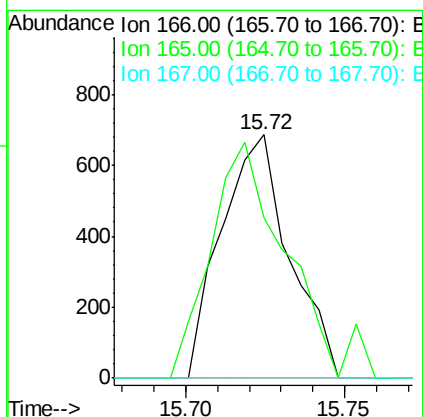
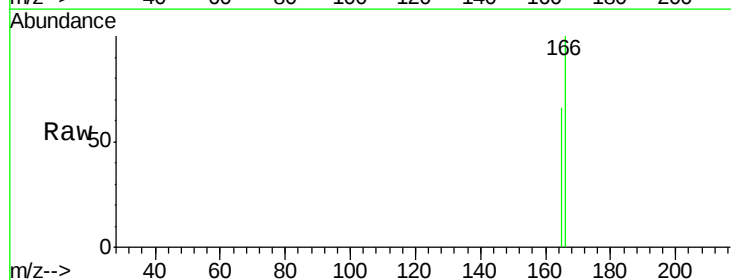
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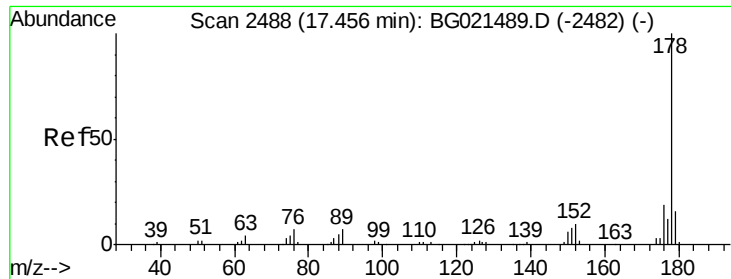
Tgt Ion:149 Resp: 345
Ion Ratio Lower Upper
149 100
177 0.0 17.4 26.2#
150 0.0 10.2 15.2#



#59
Fluorene
Concen: 17.04 ng/ul
RT: 15.72 min Scan# 2193
Delta R.T. 0.00 min
Lab File: BG021503.D
Acq: 25 Mar 2016 3:00

Tgt Ion:166 Resp: 1023
Ion Ratio Lower Upper
166 100
165 65.9 81.1 121.7#
167 0.0 10.6 16.0#





#70

Phenanthrene

Concen: 264.54 ng/ul

RT: 17.46 min Scan# 2488

Delta R.T. 0.00 min

Lab File: BG021503.D

Acq: 25 Mar 2016 3:00

Instrument :

BNA_G

ClientSampleId :

A4T41

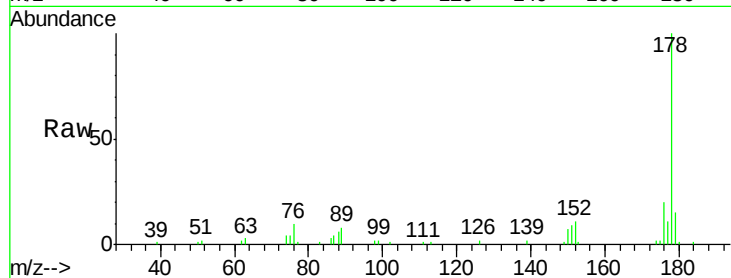
Tgt Ion:178 Resp: 25663

Ion Ratio Lower Upper

178 100

179 15.4 11.8 17.8

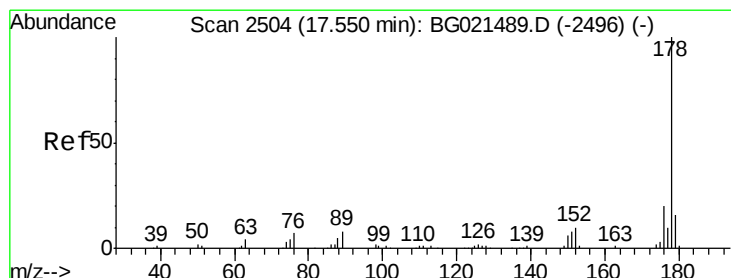
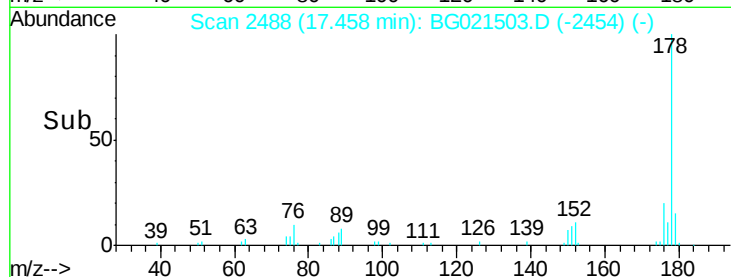
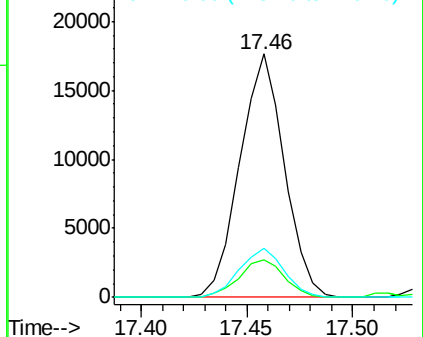
176 20.0 14.8 22.2



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: 259.99 ng/ul

RT: 17.46 min Scan# 2488

Delta R.T. -0.09 min

Lab File: BG021503.D

Acq: 25 Mar 2016 3:00

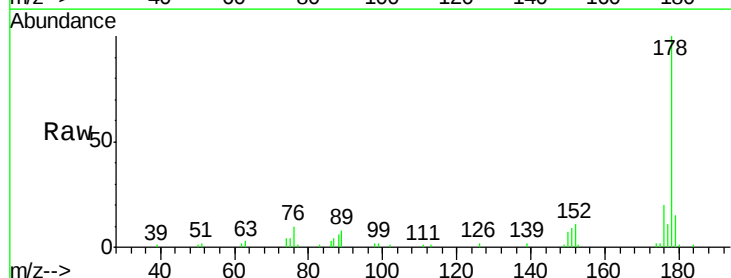
Tgt Ion:178 Resp: 25663

Ion Ratio Lower Upper

178 100

179 15.4 12.9 19.3

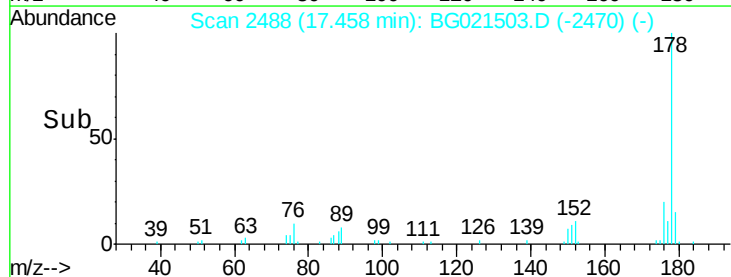
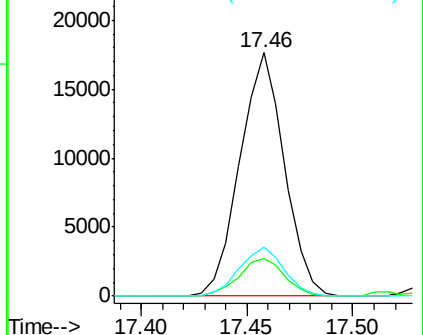
176 20.0 15.6 23.4

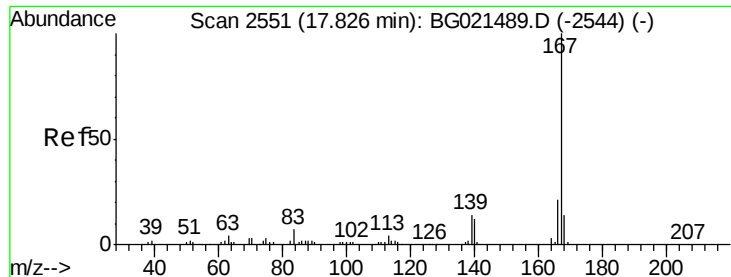


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 17.69 ng/ul

RT: 17.83 min Scan# 2551

Delta R.T. 0.00 min

Lab File: BG021503.D

Acq: 25 Mar 2016 3:00

Instrument :

BNA_G

ClientSampleId :

A4T41

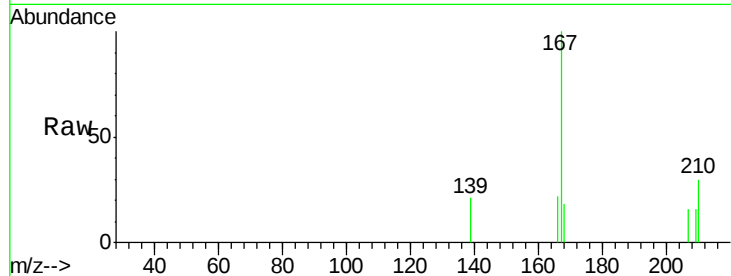
Tgt Ion:167 Resp: 1511

Ion Ratio Lower Upper

167 100

166 22.0 19.0 28.4

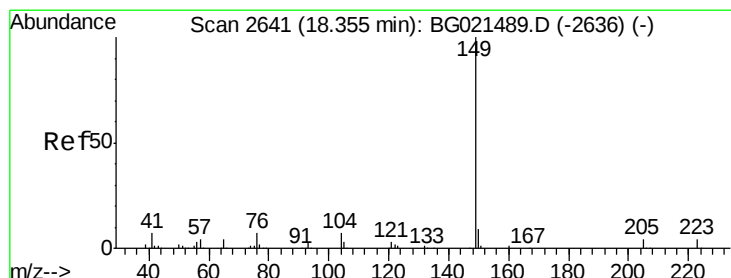
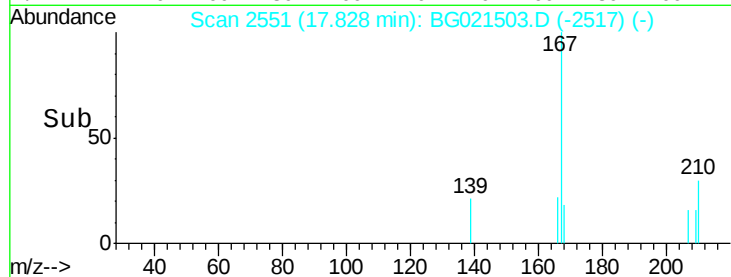
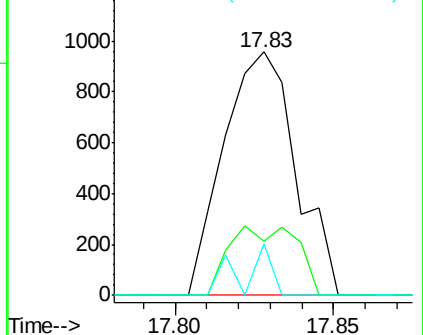
139 21.0 12.2 18.4#



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#76

Di-n-butylphthalate

Concen: 7.41 ng/ul

RT: 18.36 min Scan# 2641

Delta R.T. 0.00 min

Lab File: BG021503.D

Acq: 25 Mar 2016 3:00

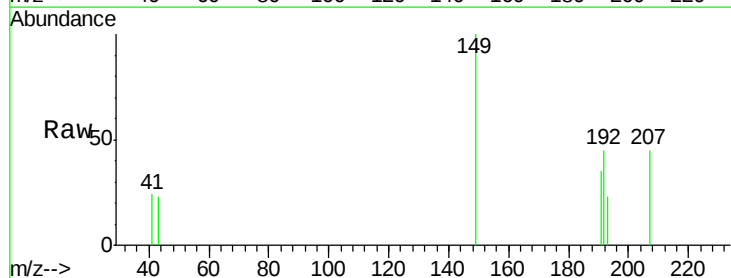
Tgt Ion:149 Resp: 817

Ion Ratio Lower Upper

149 100

150 0.0 7.5 11.3#

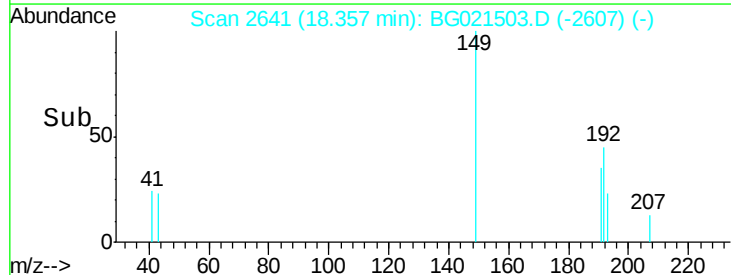
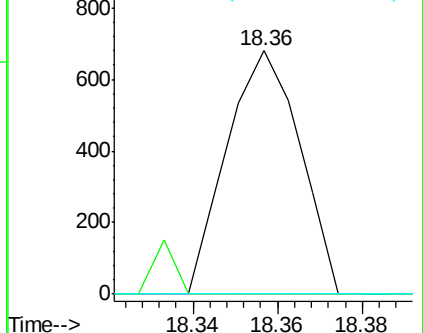
104 0.0 5.4 8.2#

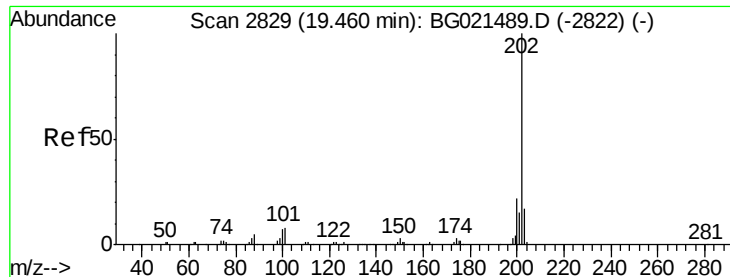


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

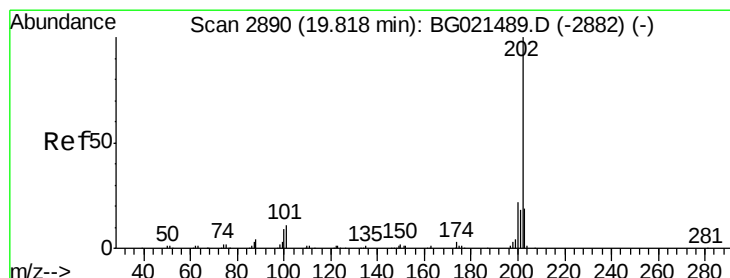
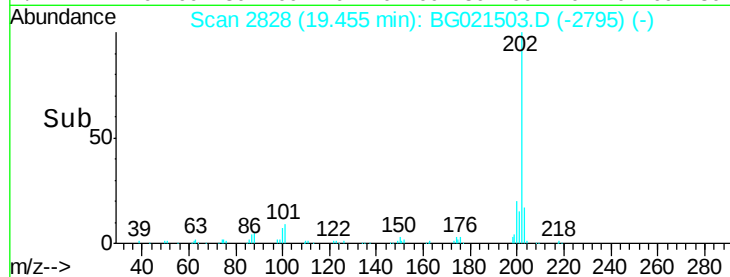
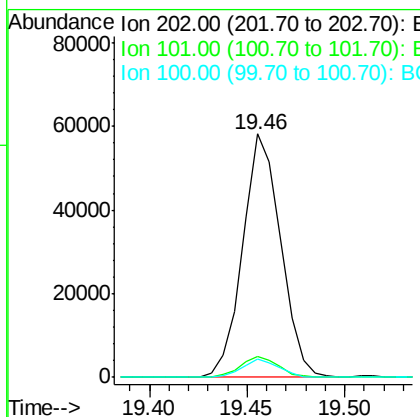
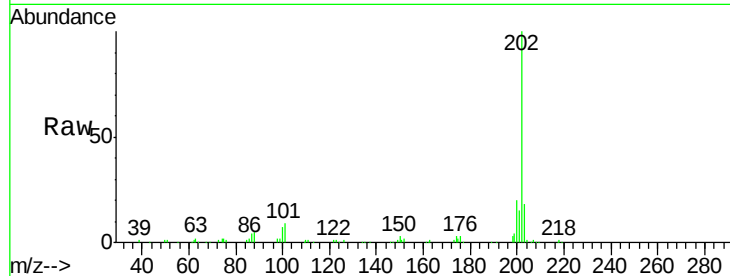




#77
 Fluoranthene
 Concen: 669.87 ng/ul
 RT: 19.46 min Scan# 2828
 Delta R.T. -0.00 min
 Lab File: BG021503.D
 Acq: 25 Mar 2016 3:00

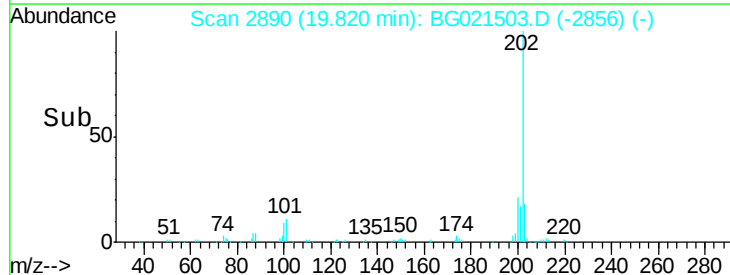
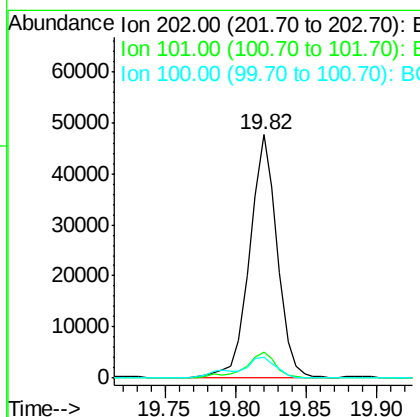
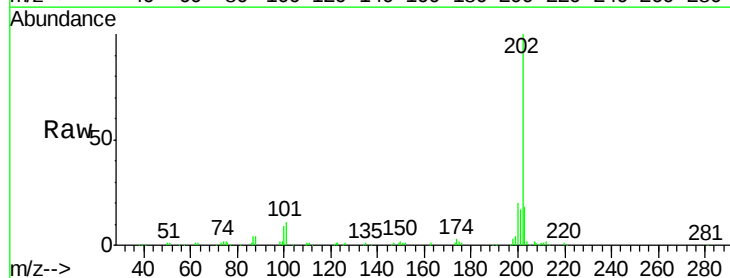
Instrument :
 BNA_G
 ClientSampleId :
 A4T41

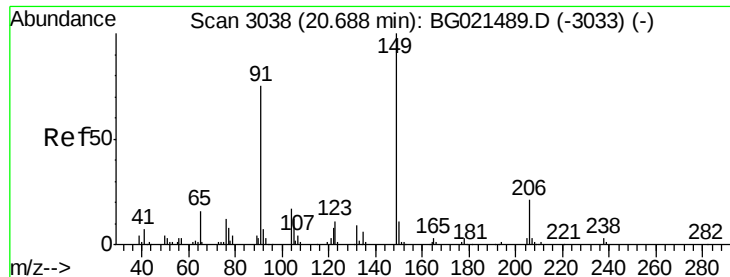
Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.7	8.9	13.3#
100	7.3	7.0	10.4



#80
 Pyrene
 Concen: 512.89 ng/ul
 RT: 19.82 min Scan# 2890
 Delta R.T. 0.00 min
 Lab File: BG021503.D
 Acq: 25 Mar 2016 3:00

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.8	9.8	14.8
100	8.6	9.3	13.9#

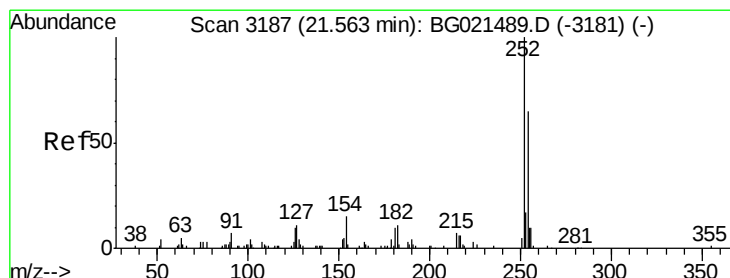
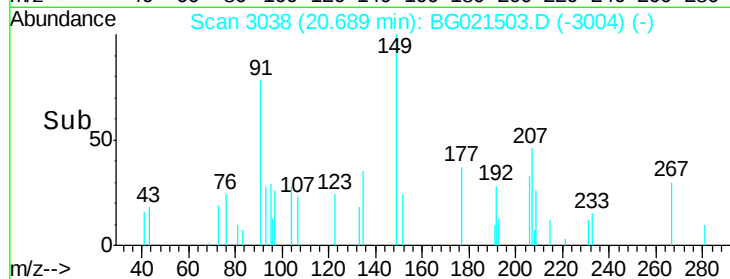
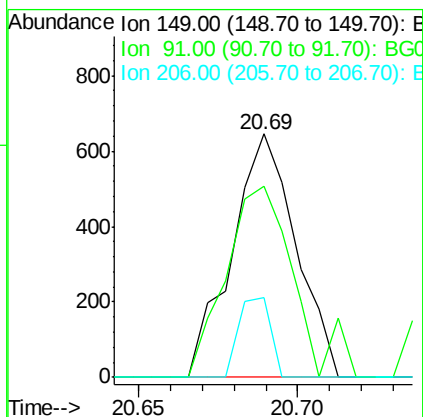
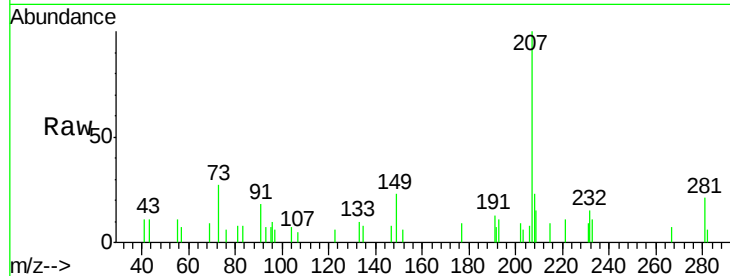




#81
Butylbenzylphthalate
Concen: 16.72 ng/ul
RT: 20.69 min Scan# 3038
Delta R.T. 0.00 min
Lab File: BG021503.D
Acq: 25 Mar 2016 3:00

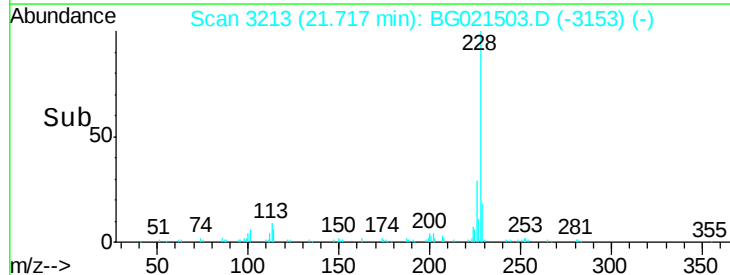
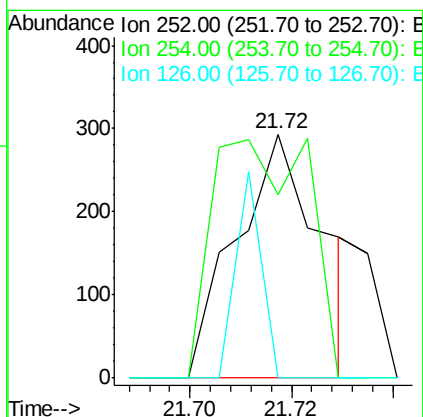
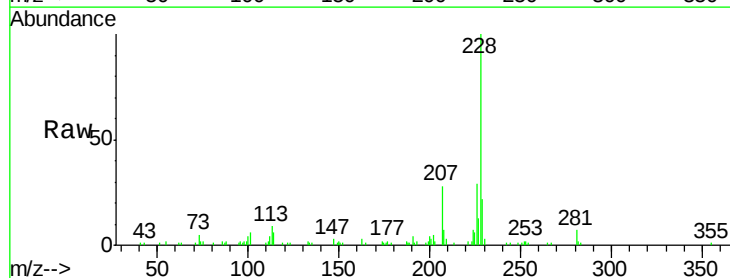
Instrument :
BNA_G
ClientSampleId :
A4T41

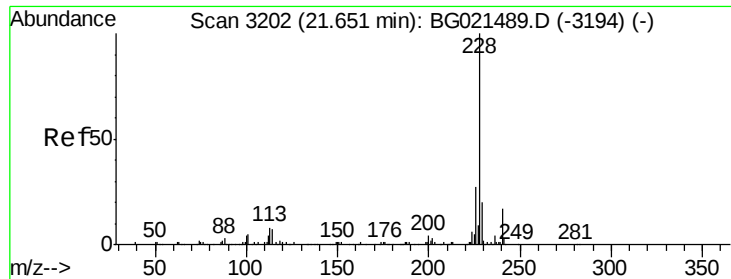
Tgt Ion:149 Resp: 902
Ion Ratio Lower Upper
149 100
91 78.3 65.8 98.8
206 33.0 15.5 23.3#



#82
3,3'-Dichlorobenzidine
Concen: 7.71 ng/ul
RT: 21.72 min Scan# 3213
Delta R.T. 0.15 min
Lab File: BG021503.D
Acq: 25 Mar 2016 3:00

Tgt Ion:252 Resp: 343
Ion Ratio Lower Upper
252 100
254 75.4 52.8 79.2
126 0.0 9.8 14.8#

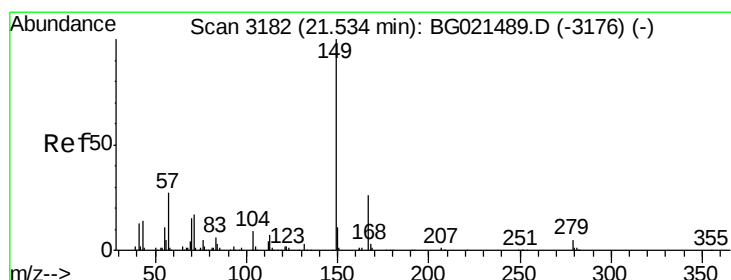
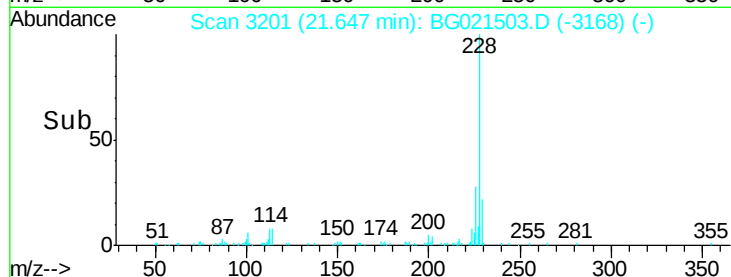
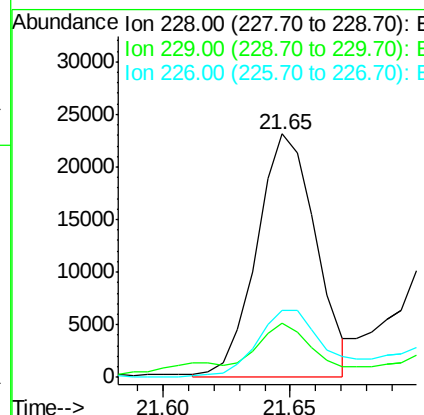
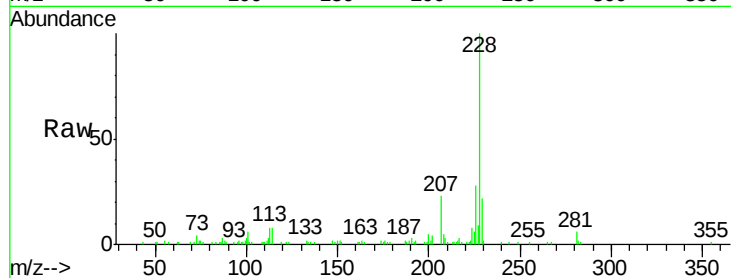




#83
Benzo(a)anthracene
Concen: 290.35 ng/ul
RT: 21.65 min Scan# 3201
Delta R.T. -0.00 min
Lab File: BG021503.D
Acq: 25 Mar 2016 3:00

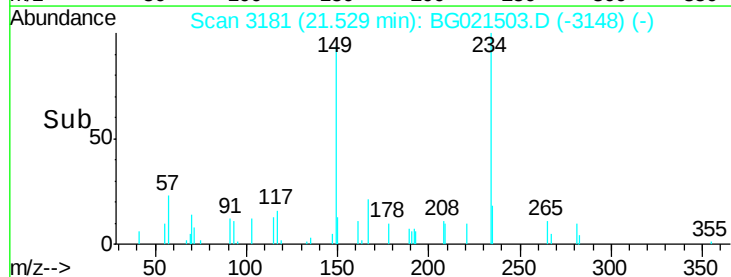
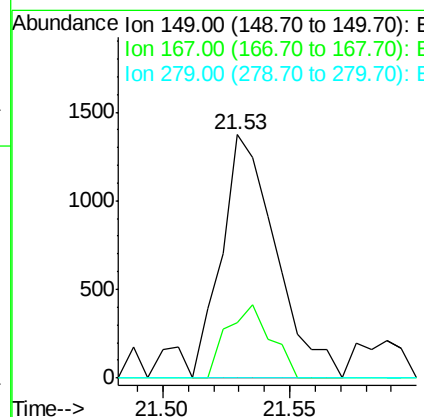
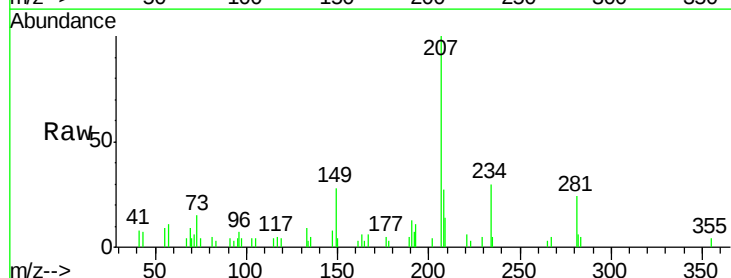
Instrument :
BNA_G
ClientSampleId :
A4T41

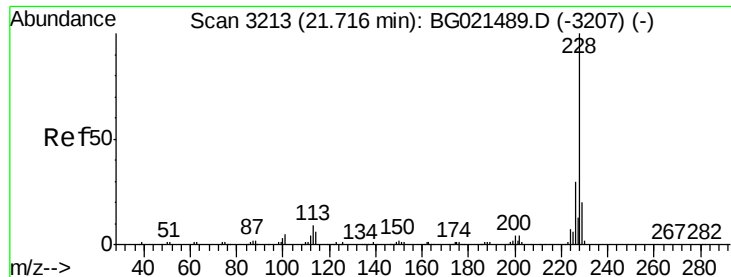
Tgt Ion:228 Resp: 37578
Ion Ratio Lower Upper
228 100
229 22.4 16.6 25.0
226 27.7 21.0 31.4



#84
Bis(2-ethylhexyl)phthalate
Concen: 25.83 ng/ul
RT: 21.53 min Scan# 3181
Delta R.T. -0.00 min
Lab File: BG021503.D
Acq: 25 Mar 2016 3:00

Tgt Ion:149 Resp: 2038
Ion Ratio Lower Upper
149 100
167 22.8 20.5 30.7
279 0.0 3.7 5.5#

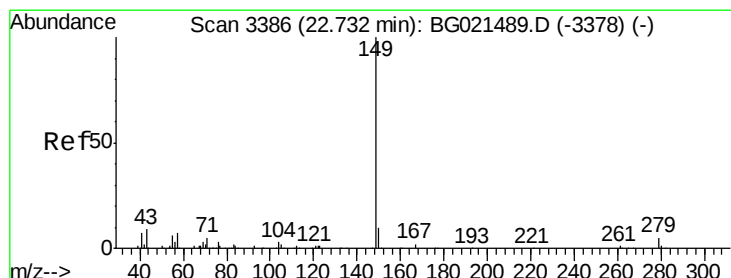
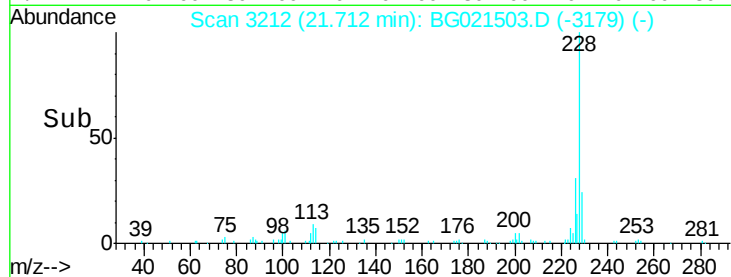
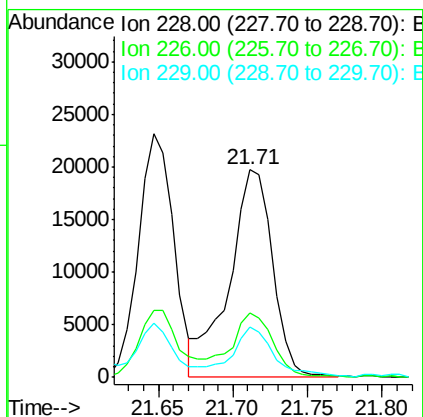
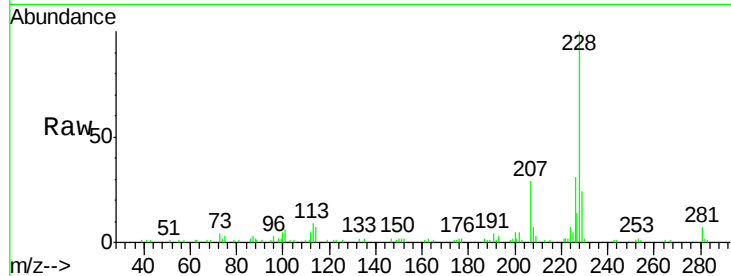




#85
Chrysene
Concen: 327.19 ng/ul
RT: 21.71 min Scan# 3212
Delta R.T. -0.00 min
Lab File: BG021503.D
Acq: 25 Mar 2016 3:00

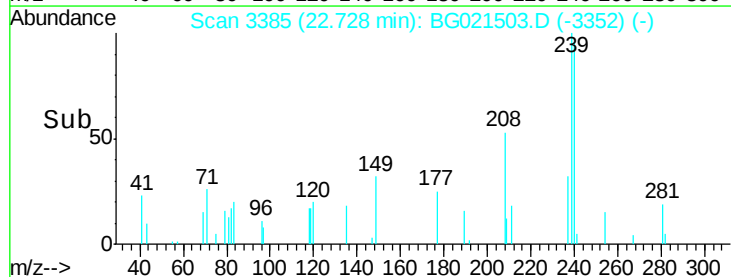
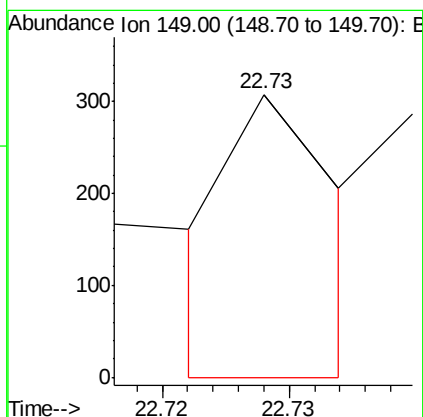
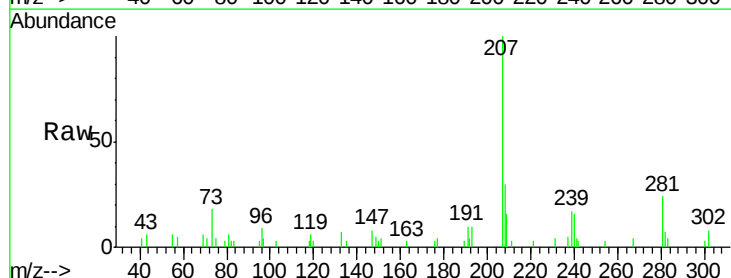
Instrument :
BNA_G
ClientSampleId :
A4T41

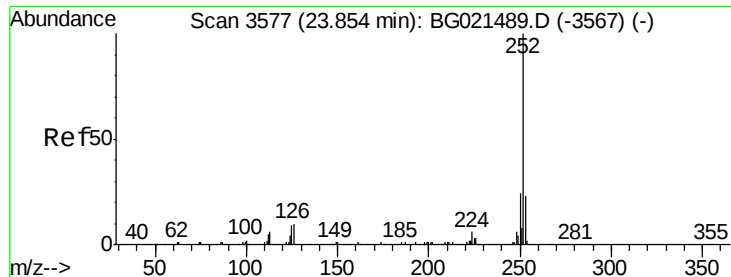
Tgt Ion:228 Resp: 40104
Ion Ratio Lower Upper
228 100
226 30.9 23.4 35.2
229 24.1 16.2 24.2



#87
Di-n-octyl phthalate
Concen: 1.19 ng/ul
RT: 22.73 min Scan# 3385
Delta R.T. -0.00 min
Lab File: BG021503.D
Acq: 25 Mar 2016 3:00

Tgt Ion:149 Resp: 181





#88

Benzo(b)fluoranthene

Concen: 348.84 ng/ul

RT: 23.87 min Scan# 3579

Delta R.T. 0.01 min

Lab File: BG021503.D

Acq: 25 Mar 2016 3:00

Instrument :

BNA_G

ClientSampleId :

A4T41

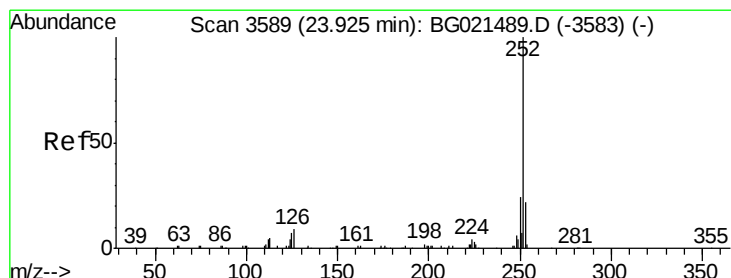
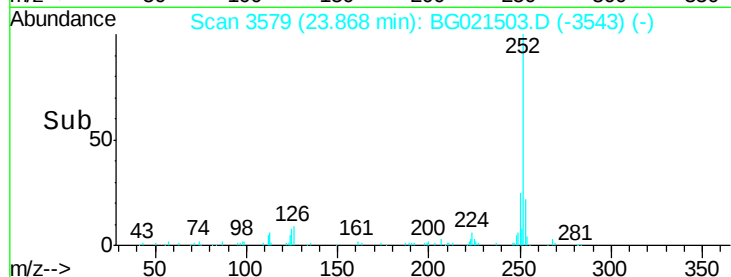
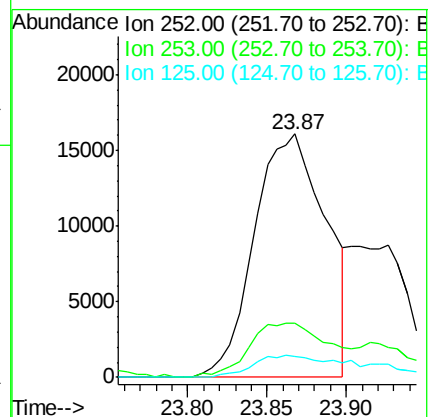
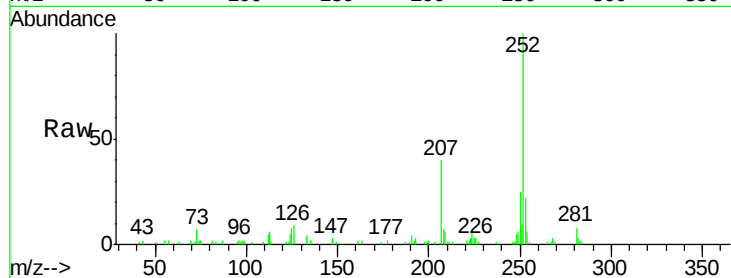
Tgt Ion:252 Resp: 50395

Ion Ratio Lower Upper

252 100

253 22.0 18.1 27.1

125 8.3 7.6 11.4



#89

Benzo(k)fluoranthene

Concen: 355.13 ng/ul

RT: 23.87 min Scan# 3579

Delta R.T. -0.06 min

Lab File: BG021503.D

Acq: 25 Mar 2016 3:00

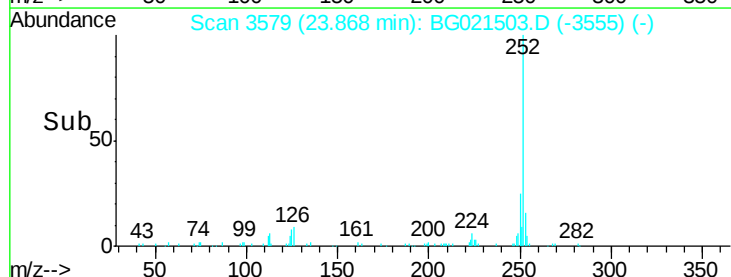
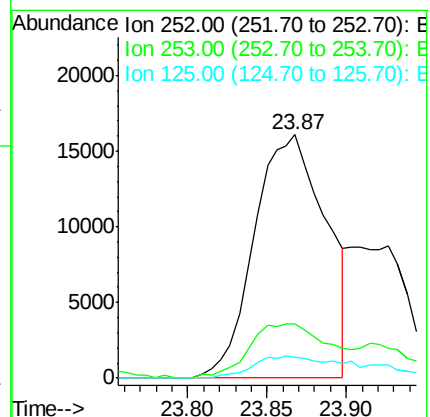
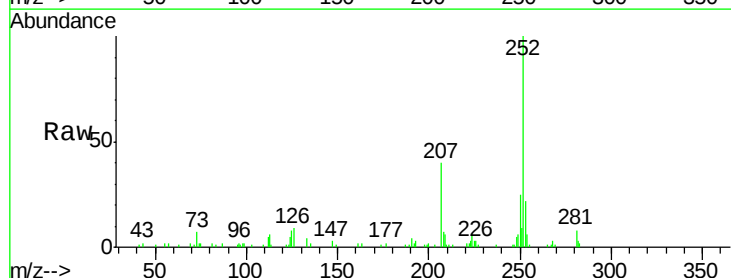
Tgt Ion:252 Resp: 50395

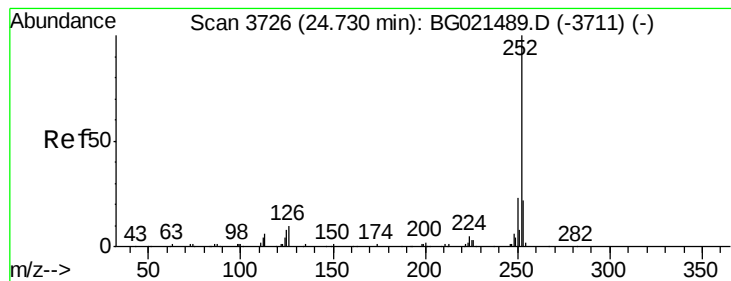
Ion Ratio Lower Upper

252 100

253 22.0 17.8 26.8

125 8.3 7.7 11.5





#91

Benzo(a)pyrene

Concen: 257.68 ng/ul

RT: 24.73 min Scan# 3726

Delta R.T. 0.00 min

Lab File: BG021503.D

Acq: 25 Mar 2016 3:00

Instrument :

BNA_G

ClientSampleId :

A4T41

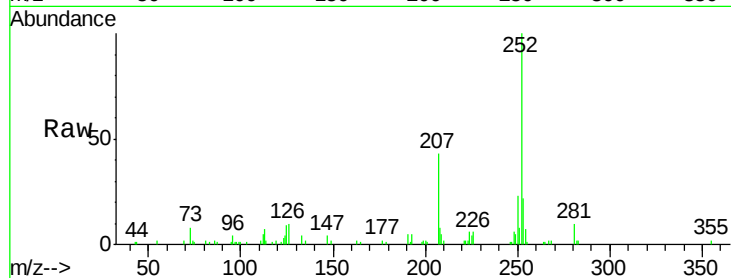
Tgt Ion:252 Resp: 36138

Ion Ratio Lower Upper

252 100

253 22.2 17.4 26.0

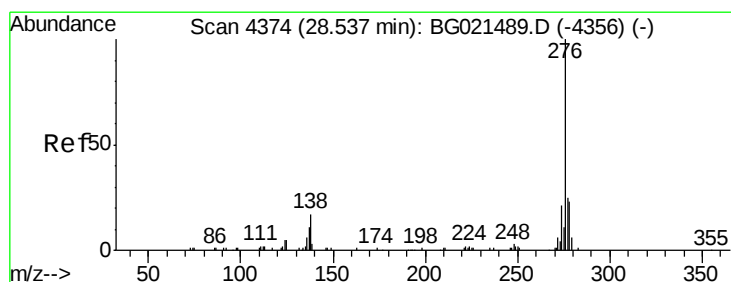
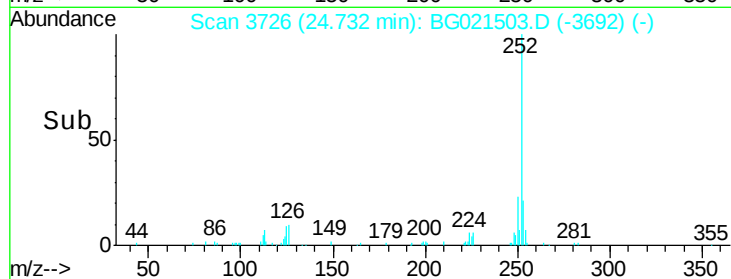
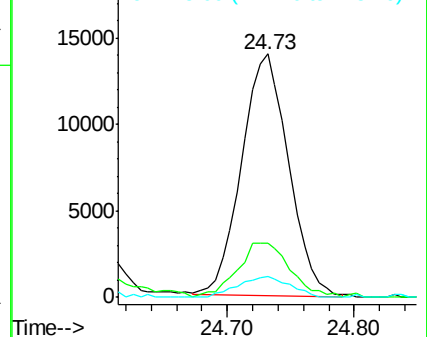
125 8.5 8.2 12.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92

Indeno(1,2,3-cd)pyrene

Concen: 147.96 ng/ul

RT: 28.53 min Scan# 4372

Delta R.T. -0.01 min

Lab File: BG021503.D

Acq: 25 Mar 2016 3:00

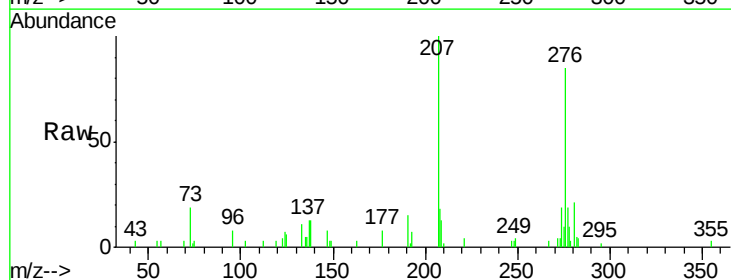
Tgt Ion:276 Resp: 23582

Ion Ratio Lower Upper

276 100

138 15.9 15.8 23.6

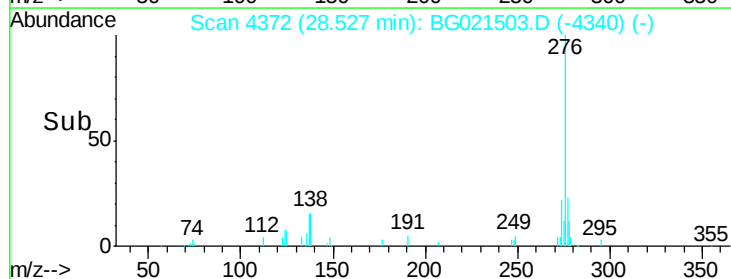
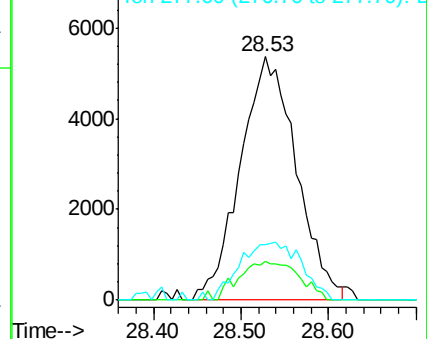
277 22.5 19.0 28.6

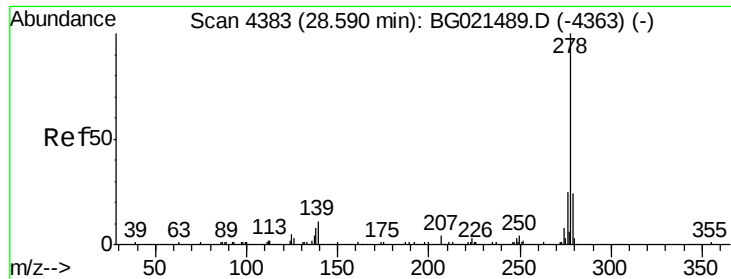


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 29.63 ng/ul

RT: 28.56 min Scan# 4377

Delta R.T. -0.03 min

Lab File: BG021503.D

Acq: 25 Mar 2016 3:00

Instrument :

BNA_G

ClientSampleId :

A4T41

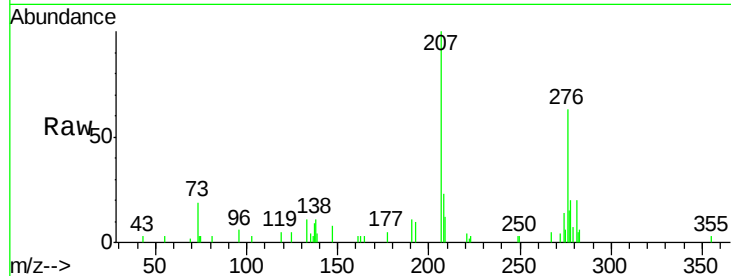
Tgt Ion:278 Resp: 4017

Ion Ratio Lower Upper

278 100

139 20.2 12.1 18.1#

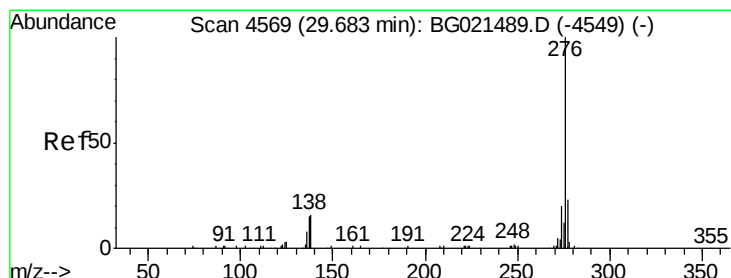
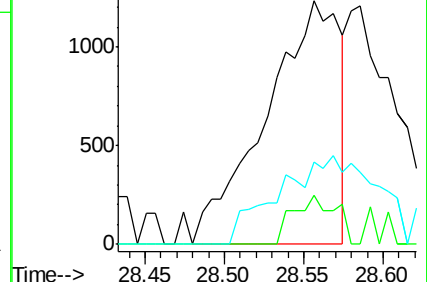
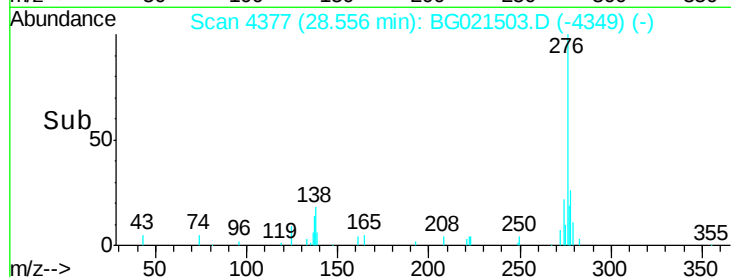
279 33.9 19.8 29.8#



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: 149.48 ng/ul

RT: 29.67 min Scan# 4566

Delta R.T. -0.02 min

Lab File: BG021503.D

Acq: 25 Mar 2016 3:00

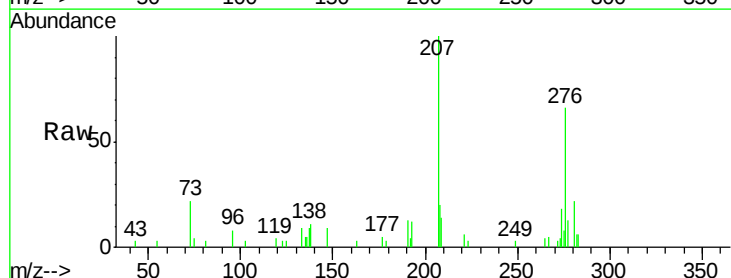
Tgt Ion:276 Resp: 19592

Ion Ratio Lower Upper

276 100

138 16.5 13.9 20.9

277 19.8 19.8 29.6



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

