

Data Path : U:\HPCHEM1\BNA G\DATA\BG022416\
 Data File : BG021057.D
 Acq On : 24 Feb 2016 18:32
 Operator : UM/SJ
 Sample : H1520-11
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Feb 24 23:58:19 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 24 00:35:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.21	152	4686	20.00	ng	0.00
21) Naphthalene-d8	11.02	136	24948	20.00	ng	0.00
38) Acenaphthene-d10	14.82	164	14186	20.00	ng	0.00
63) Phenanthrene-d10	17.56	188	25935	20.00	ng	0.00
75) Chrysene-d12	21.83	240	18917	20.00	ng	0.00
86) Perylene-d12	25.15	264	18274	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.78	112	33250	124.40	ng	0.00
7) Phenol-d6	7.41	99	52204	126.82	ng	0.00
23) Nitrobenzene-d5	9.39	82	34945	82.24	ng	0.00
41) 2,4,6-Tribromophenol	16.31	330	19121	112.51	ng	0.00
44) 2-Fluorobiphenyl	13.44	172	67442	66.18	ng	0.00
78) Terphenyl-d14	20.14	244	55027	37.75	ng	0.00

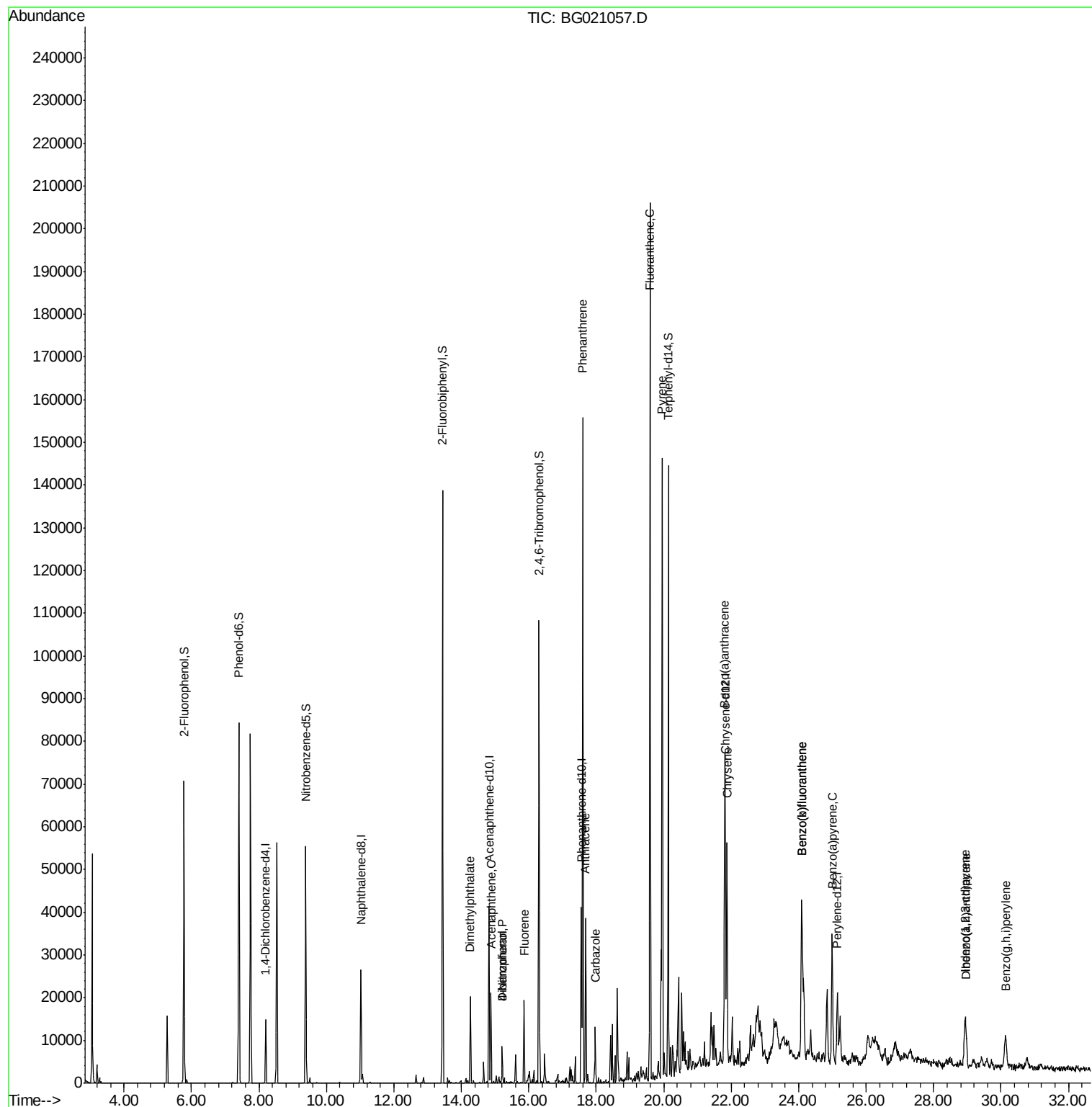
Target Compounds						Qvalue
49) Dimethylphthalate	14.27	163	13764	11.90	ng	98
51) Acenaphthene	14.88	154	7811	8.63	ng	96
54) Dibenzofuran	15.21	168	5995	4.66	ng	# 92
55) 4-Nitrophenol	15.21	139	2620	11.17	ng	# 7
57) Fluorene	15.86	166	8628	7.11	ng	96
70) Phenanthrene	17.60	178	95680	65.22	ng	98
71) Anthracene	17.69	178	24147	16.52	ng	98
72) Carbazole	17.97	167	8714	6.62	ng	97
74) Fluoranthene	19.60	202	118828	80.54	ng	98
77) Pyrene	19.95	202	91874	42.51	ng	98
80) Benzo(a)anthracene	21.80	228	42959	37.87	ng	99
82) Chrysene	21.87	228	32428	30.64	ng	96
85) Indeno(1,2,3-cd)pyrene	28.93	276	20658	21.70	ng	# 100
87) Benzo(b)fluoranthene	24.09	252	44877	37.25	ng	99
88) Benzo(k)fluoranthene	24.09	252	44877	39.48	ng	98
89) Benzo(a)pyrene	24.99	252	32820	30.40	ng	97
90) Dibenzo(a,h)anthracene	28.96	278	2527	2.60	ng	# 85
91) Benzo(g,h,i)perylene	30.13	276	17823	18.37	ng	95

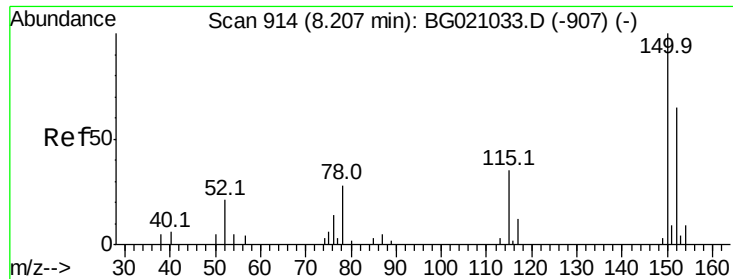
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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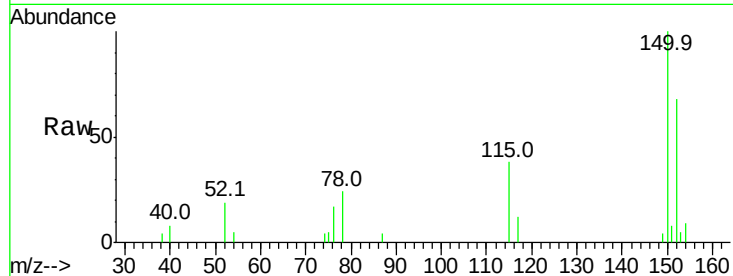


#1

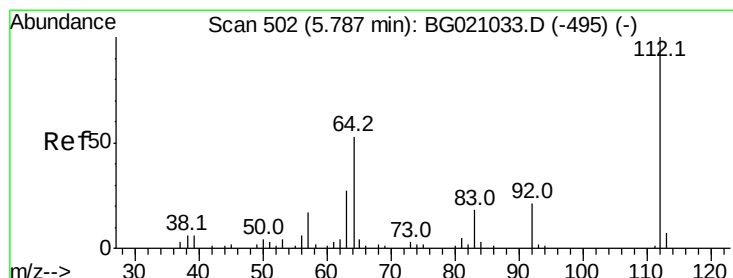
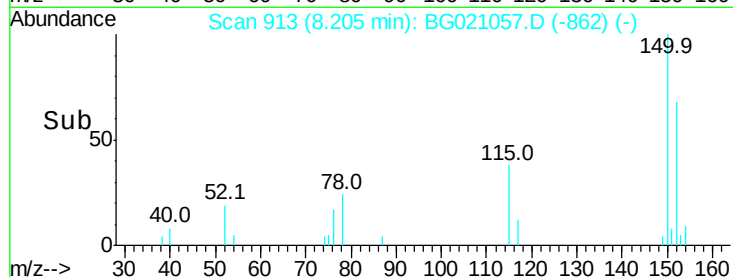
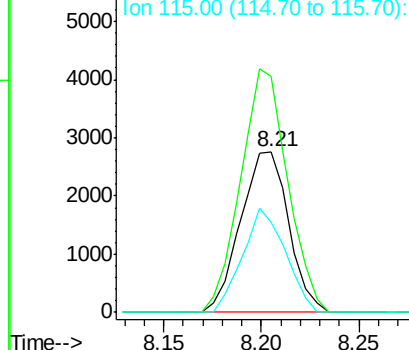
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.21 min Scan# 913
Delta R.T. -0.00 min
Lab File: BG021057.D
Acq: 24 Feb 2016 18:32

Instrument :
BNA_G
ClientSampled :

Tot Ion:152 Resp: 4686
Ion Ratio Lower Upper
152 100
150 146.9 123.4 185.2
115 56.0 43.3 64.9



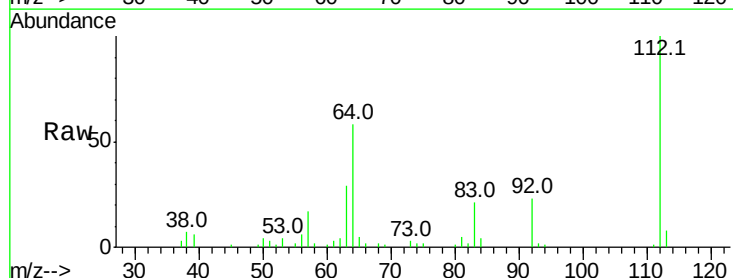
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



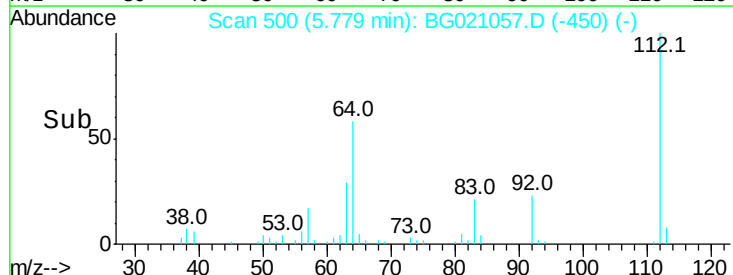
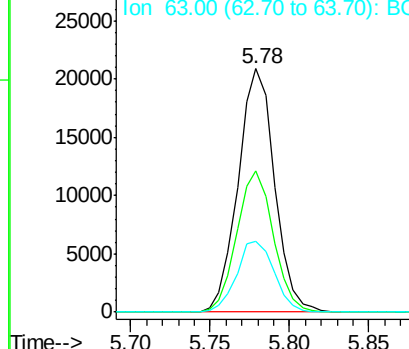
#5

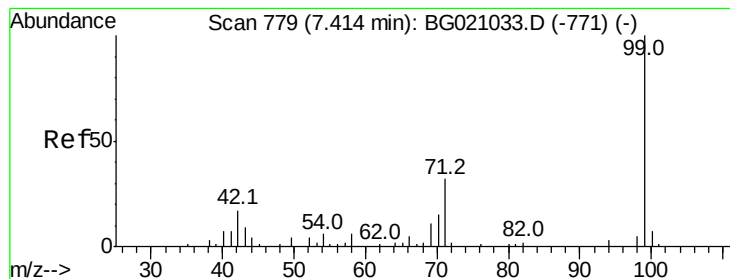
2-Fluorophenol
Concen: 124.40 ng
RT: 5.78 min Scan# 500
Delta R.T. -0.01 min
Lab File: BG021057.D
Acq: 24 Feb 2016 18:32

Tgt Ion:112 Resp: 33250
Ion Ratio Lower Upper
112 100
64 58.2 42.6 63.8
63 29.1 21.7 32.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BGC
Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 126.82 ng

RT: 7.41 min Scan# 777

Delta R.T. -0.01 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

Instrument :

BNA_G

ClientSampleId :

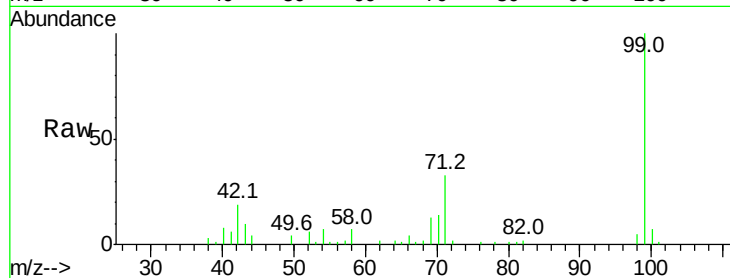
Tot Ion: 99 Resp: 52204

Ion Ratio Lower Upper

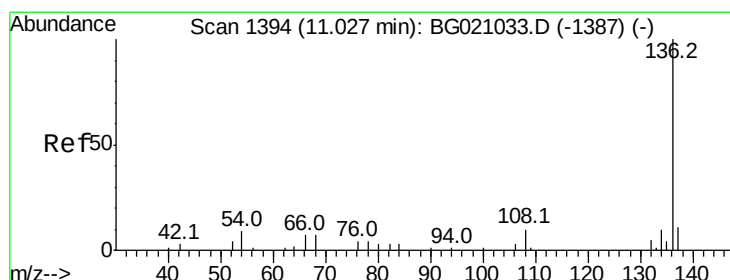
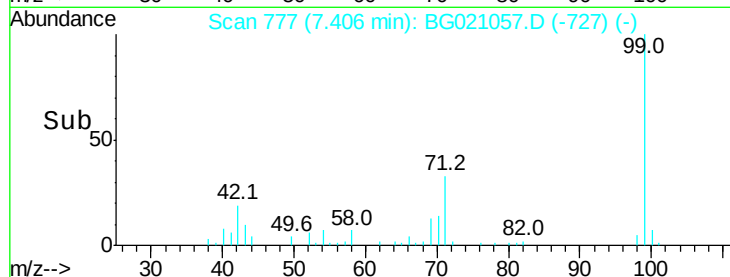
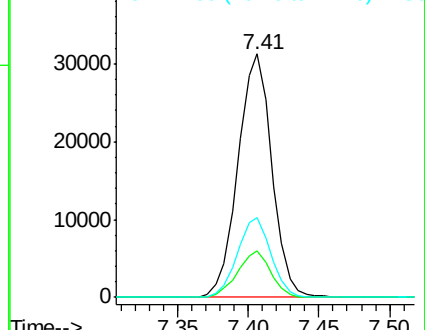
99 100

42 19.2 13.2 19.8

71 32.6 25.2 37.8



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.02 min Scan# 1393

Delta R.T. -0.00 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

Tgt Ion: 136 Resp: 24948

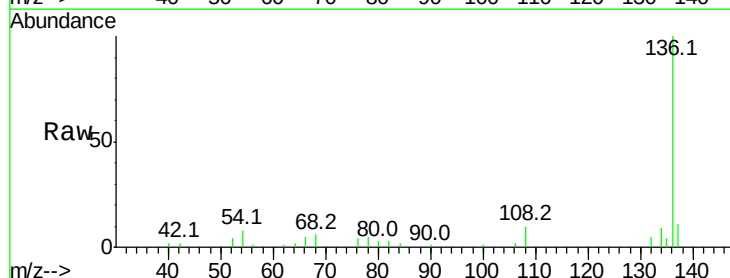
Ion Ratio Lower Upper

136 100

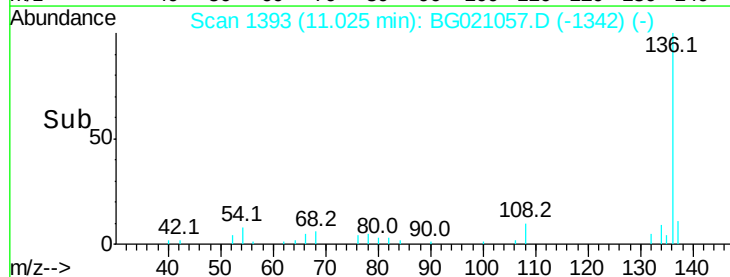
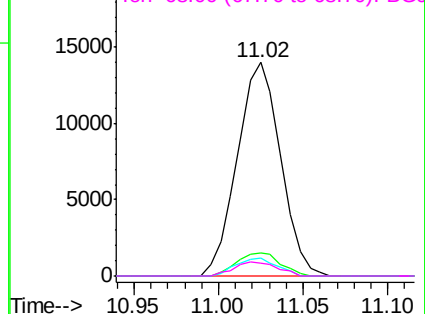
137 10.6 8.8 13.2

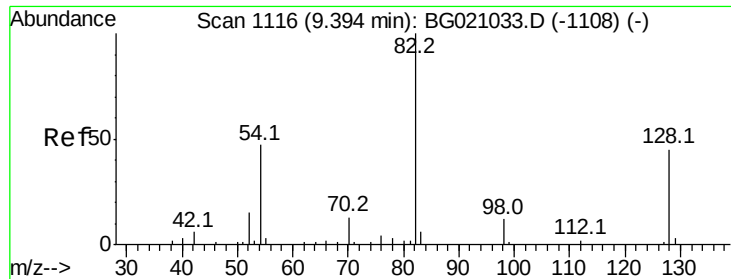
54 8.1 6.9 10.3

68 6.0 5.8 8.6



Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

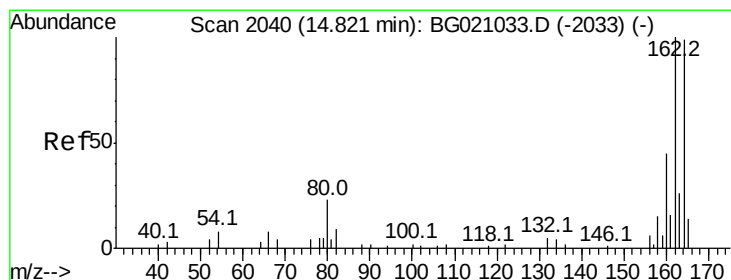
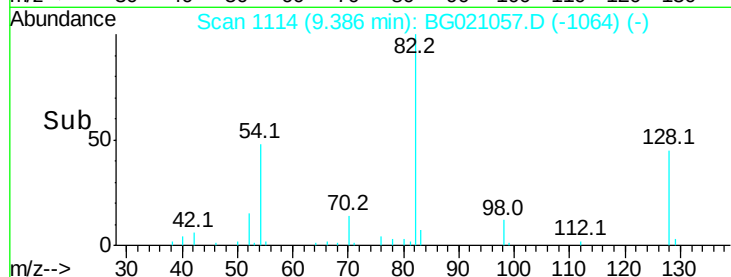
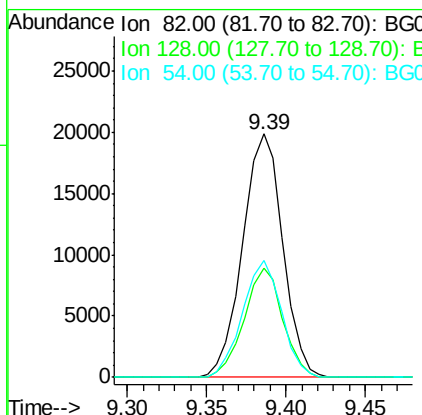
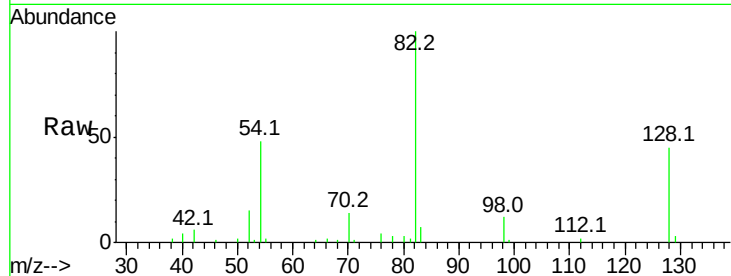




#23
 Nitrobenzene-d5
 Concen: 82.24 ng
 RT: 9.39 min Scan# 1114
 Delta R.T. -0.01 min
 Lab File: BG021057.D
 Acq: 24 Feb 2016 18:32

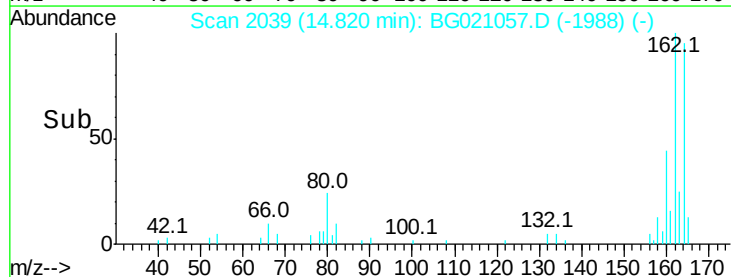
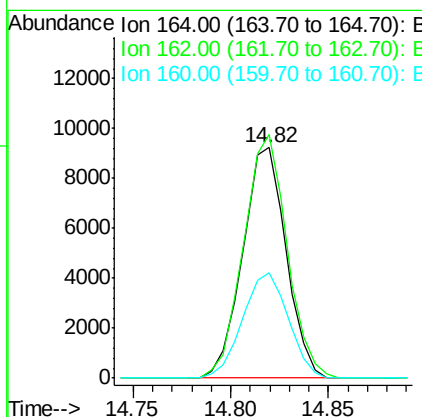
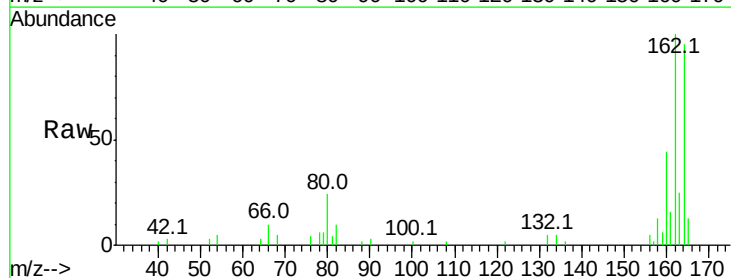
Instrument :
 BNA_G
 ClientSampleId :

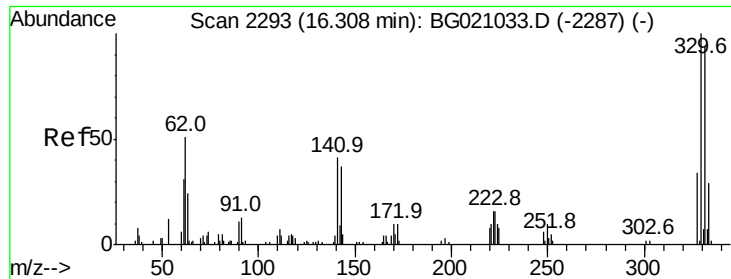
Tot Ion	82	Resp	34945
Ion Ratio	100	Lower	Upper
128	44.6	36.3	54.5
54	48.0	37.6	56.4



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.82 min Scan# 2039
 Delta R.T. -0.00 min
 Lab File: BG021057.D
 Acq: 24 Feb 2016 18:32

Tgt Ion	164	Resp	14186
Ion Ratio	100	Lower	Upper
162	105.7	80.6	120.8
160	46.0	36.5	54.7

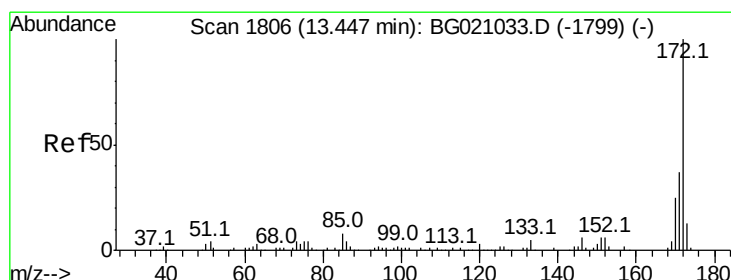
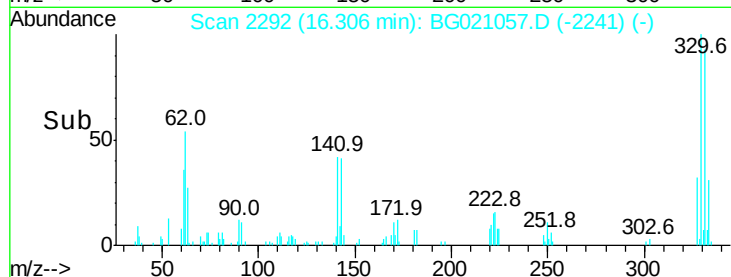
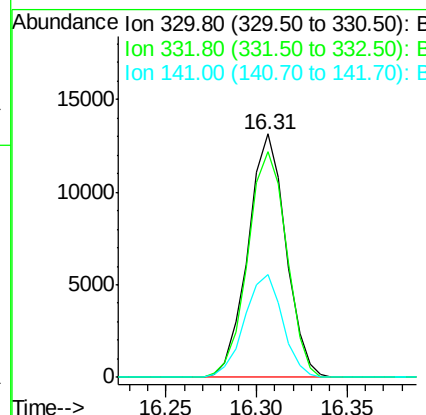
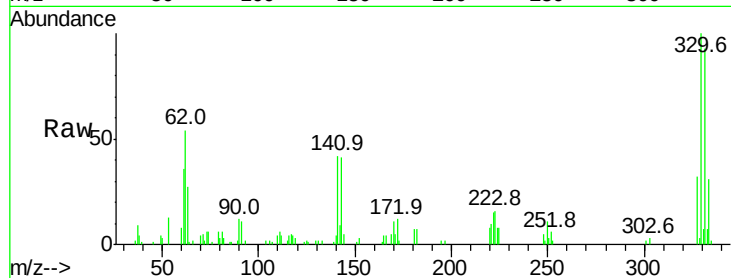




#41
 2,4,6-Tribromophenol
 Concen: 112.51 ng
 RT: 16.31 min Scan# 2292
 Delta R.T. -0.00 min
 Lab File: BG021057.D
 Acq: 24 Feb 2016 18:32

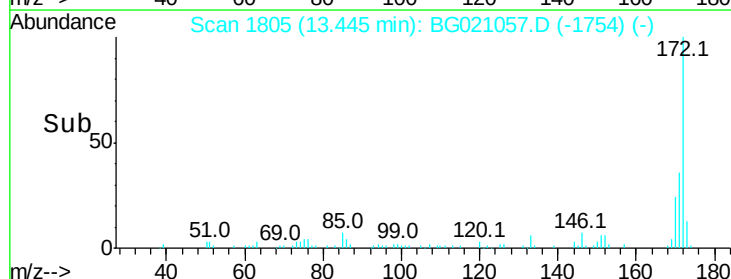
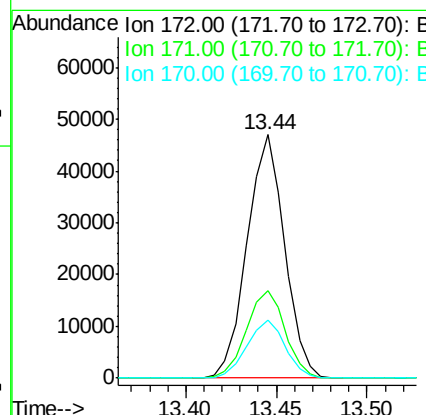
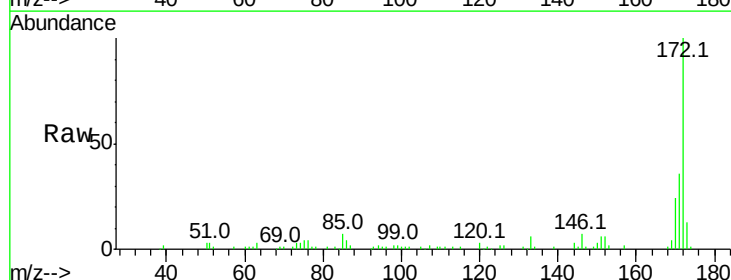
Instrument :
 BNA_G
 ClientSampleId :

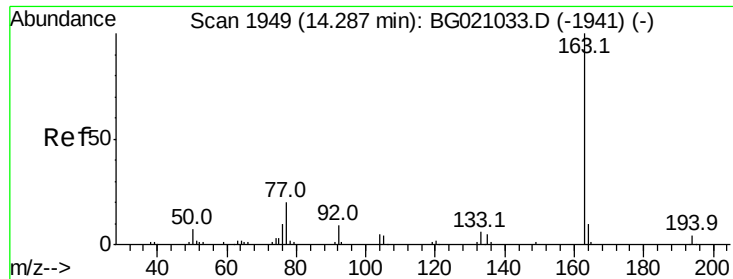
Tot Ion	Ratio	Lower	Upper
330	100		
332	94.6	77.4	116.0
141	42.5	35.3	52.9



#44
 2-Fluorobiphenyl
 Concen: 66.18 ng
 RT: 13.44 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: BG021057.D
 Acq: 24 Feb 2016 18:32

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.4	44.0
170	24.0	19.8	29.8





#49

Dimethylphthalate

Concen: 11.90 ng

RT: 14.27 min Scan# 1945

Delta R.T. -0.02 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

Instrument :

BNA_G

ClientSampled :

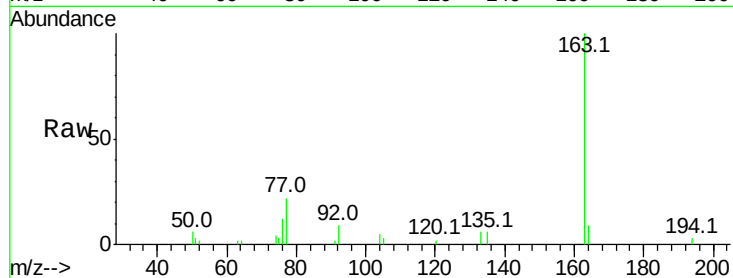
Tot Ion:163 Resp: 13764

Ion Ratio Lower Upper

163 100

194 3.2 2.8 4.2

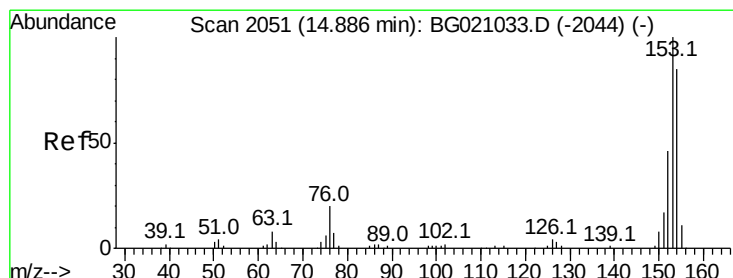
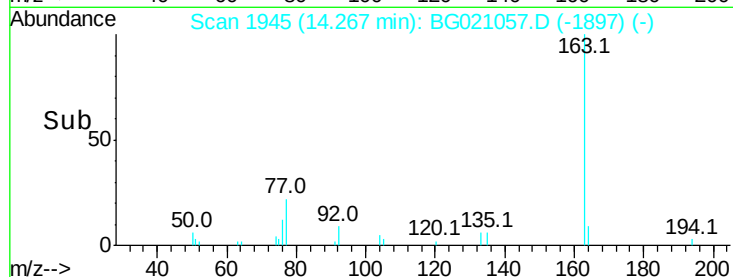
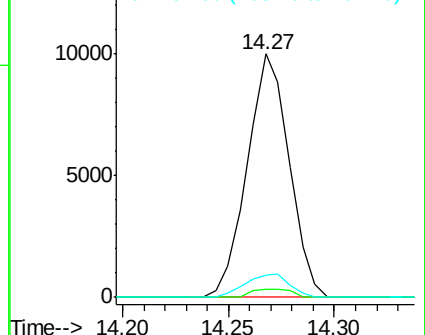
164 8.9 7.9 11.9



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



#51

Acenaphthene

Concen: 8.63 ng

RT: 14.88 min Scan# 2049

Delta R.T. -0.01 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

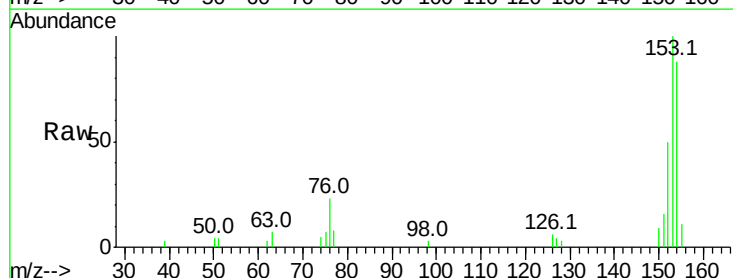
Tgt Ion:154 Resp: 7811

Ion Ratio Lower Upper

154 100

153 114.1 94.2 141.2

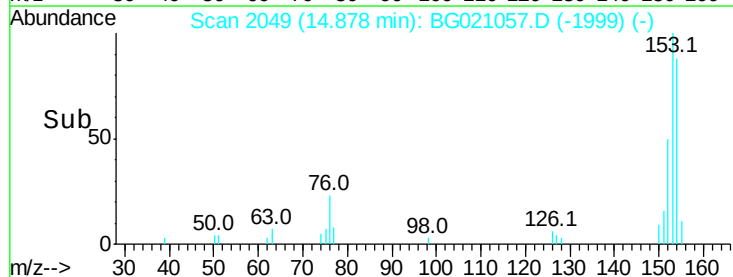
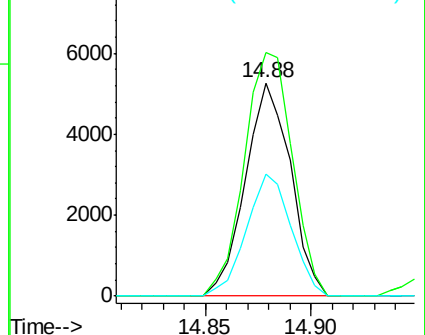
152 57.0 42.9 64.3

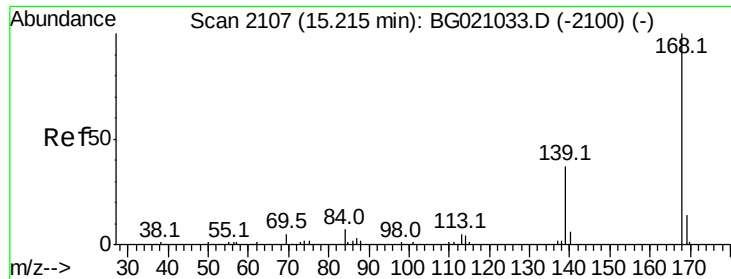


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

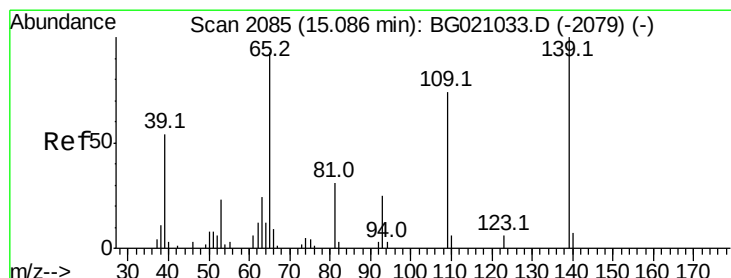
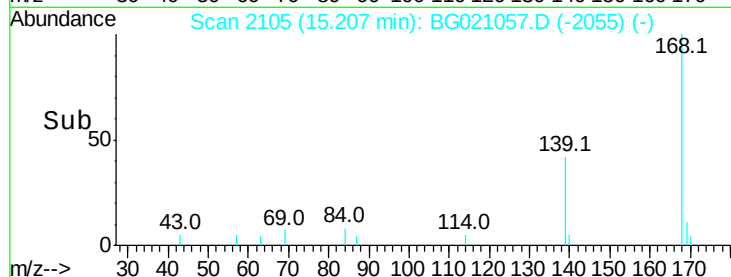
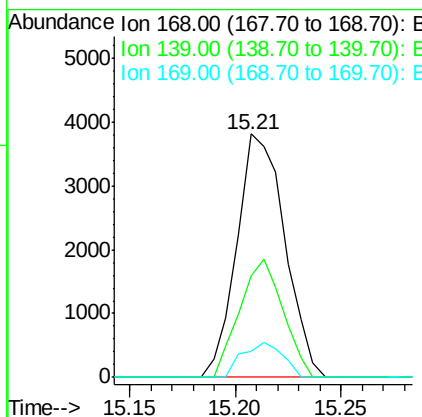
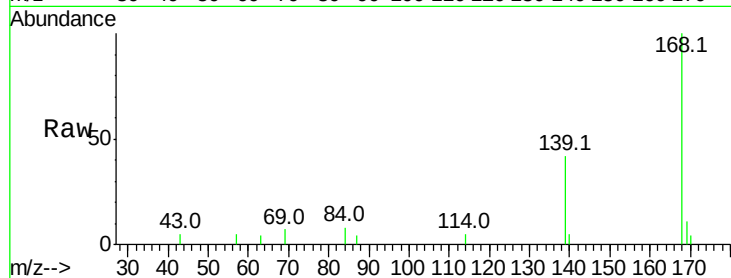




#54
Dibenzenofuran
Concen: 4.66 ng
RT: 15.21 min Scan# 2105
Delta R.T. -0.01 min
Lab File: BG021057.D
Acq: 24 Feb 2016 18:32

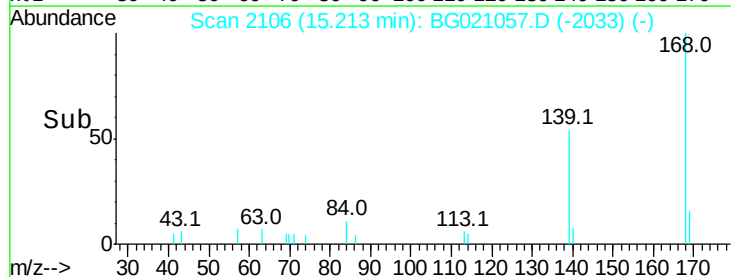
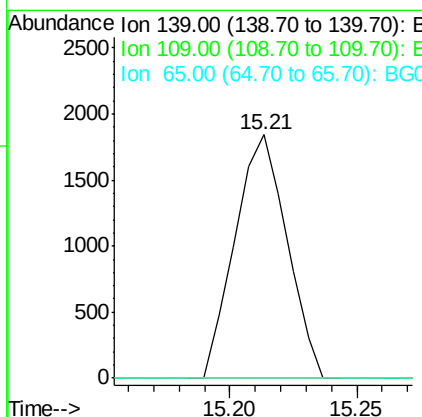
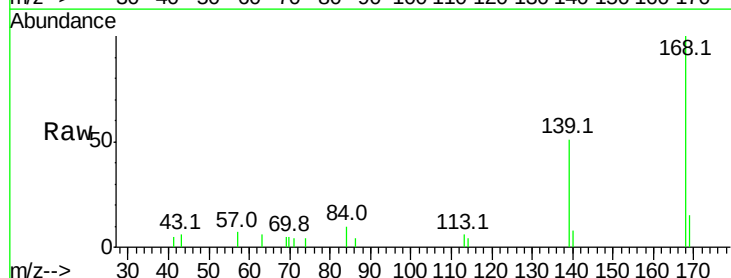
Instrument :
BNA_G
ClientSampleId :

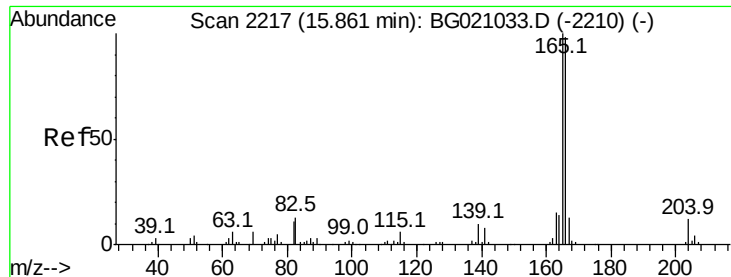
Tot Ion:168 Resp: 5995
Ion Ratio Lower Upper
168 100
139 41.9 29.8 44.8
169 10.6 11.4 17.2#



#55
4-Nitrophenol
Concen: 11.17 ng
RT: 15.21 min Scan# 2106
Delta R.T. 0.13 min
Lab File: BG021057.D
Acq: 24 Feb 2016 18:32

Tgt Ion:139 Resp: 2620
Ion Ratio Lower Upper
139 100
109 0.0 54.1 94.1#
65 0.0 73.4 113.4#





#57

Fluorene

Concen: 7.11 ng

RT: 15.86 min Scan# 2216

Delta R.T. -0.00 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

Instrument :

BNA_G

ClientSampleId :

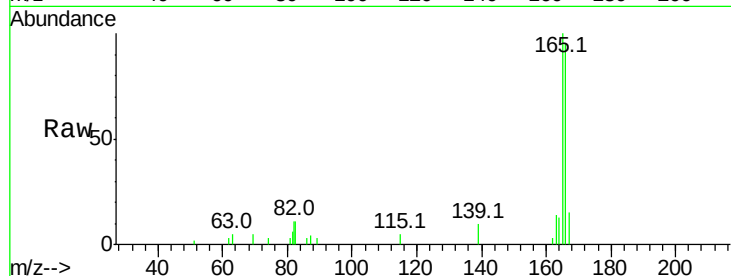
Tot Ion:166 Resp: 8628

Ion Ratio Lower Upper

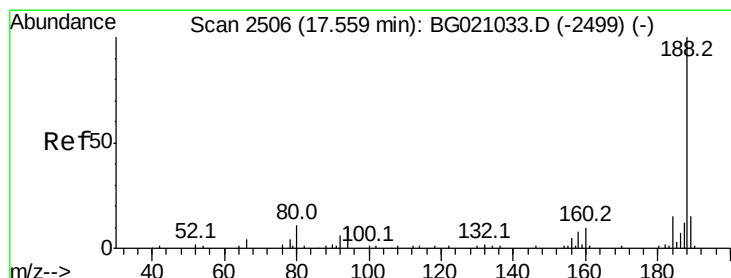
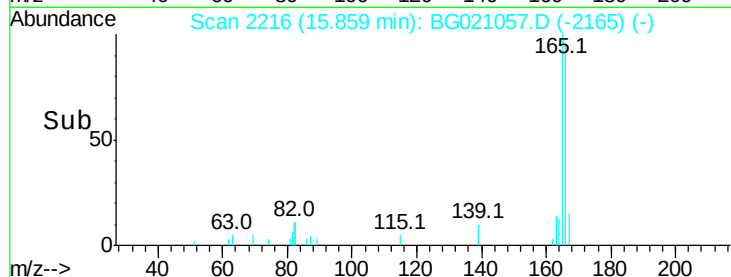
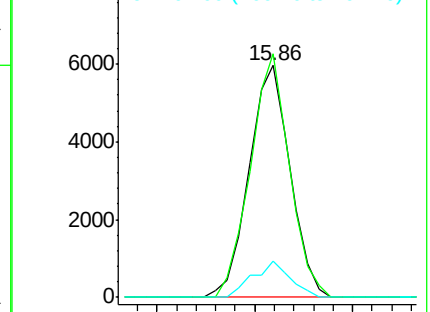
166 100

165 105.1 81.3 121.9

167 15.5 10.6 16.0



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.56 min Scan# 2505

Delta R.T. -0.00 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

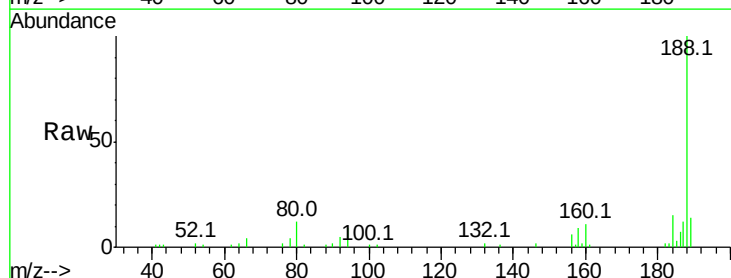
Tgt Ion:188 Resp: 25935

Ion Ratio Lower Upper

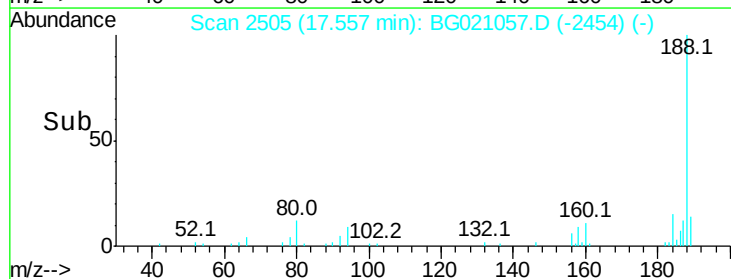
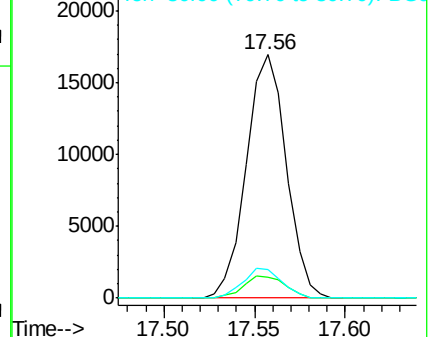
188 100

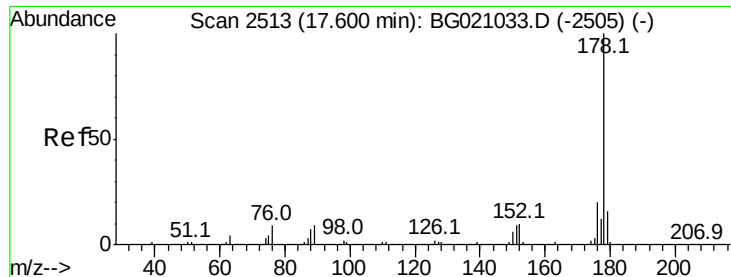
94 8.7 8.2 12.4

80 11.9 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BG
Ion 80.00 (79.70 to 80.70): BG





#70

Phenanthrene

Concen: 65.22 ng

RT: 17.60 min Scan# 2512

Delta R.T. -0.00 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

Instrument :

BNA_G

ClientSampleId :

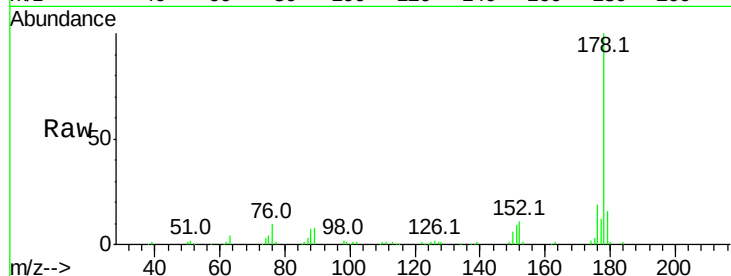
Tot Ion:178 Resp: 95680

Ion Ratio Lower Upper

178 100

176 19.1 16.2 24.4

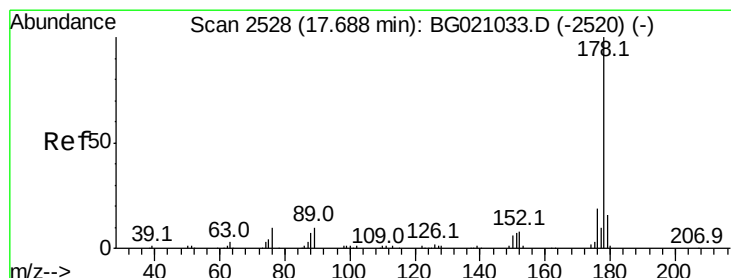
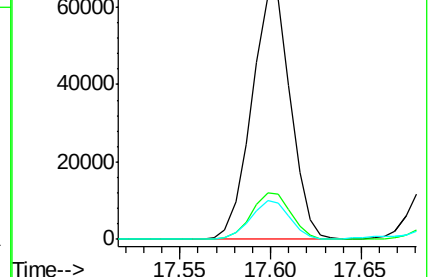
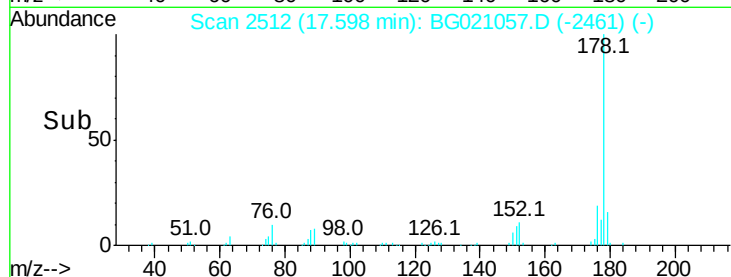
179 15.7 12.9 19.3



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 16.52 ng

RT: 17.69 min Scan# 2527

Delta R.T. -0.00 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

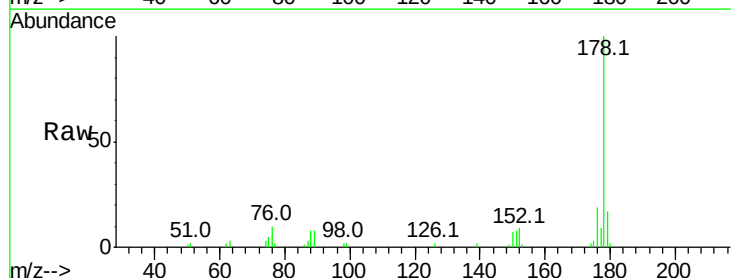
Tgt Ion:178 Resp: 24147

Ion Ratio Lower Upper

178 100

176 19.4 14.8 22.2

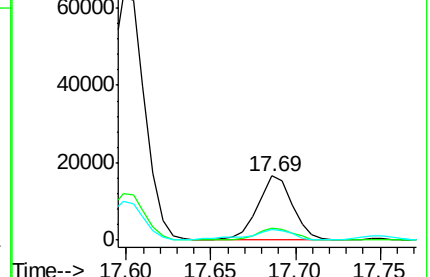
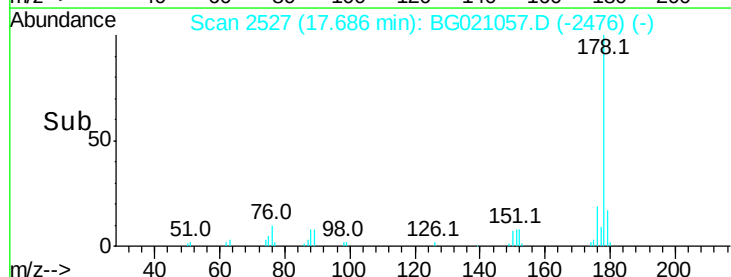
179 16.9 12.6 19.0

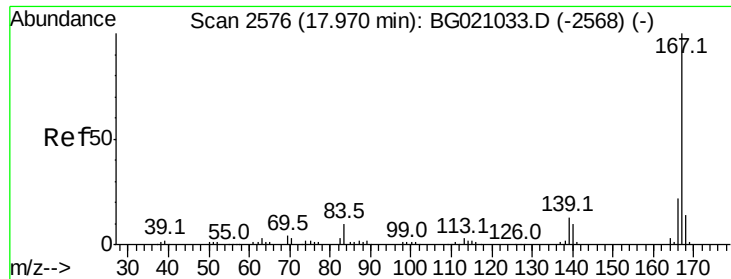


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 6.62 ng

RT: 17.97 min Scan# 2575

Delta R.T. -0.00 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

Instrument :

BNA_G

ClientSampleId :

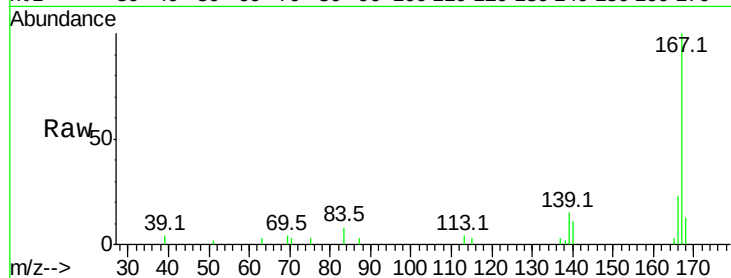
Tot Ion:167 Resp: 8714

Ion Ratio Lower Upper

167 100

166 22.9 17.5 26.3

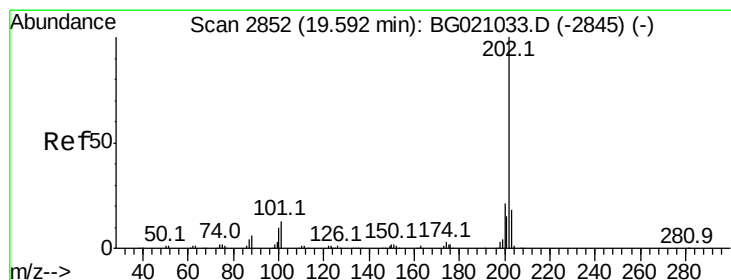
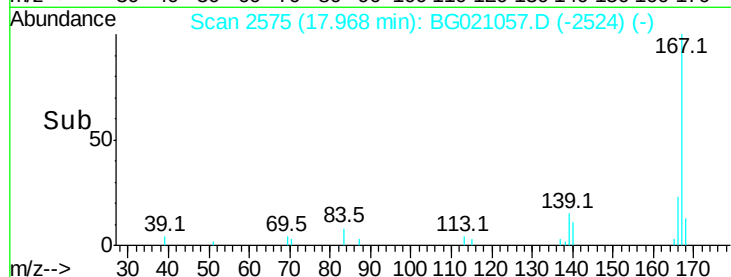
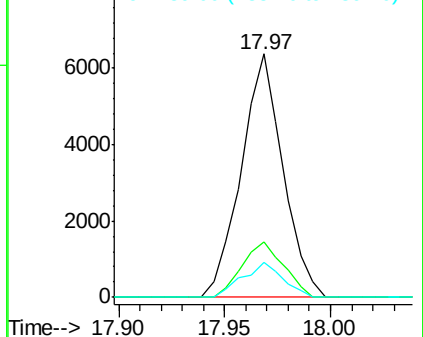
139 14.6 10.3 15.5



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



#74

Fluoranthene

Concen: 80.54 ng

RT: 19.60 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

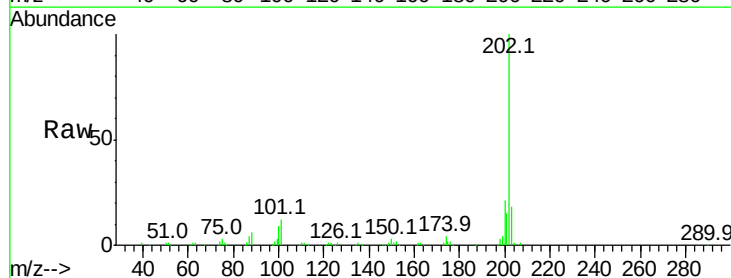
Tgt Ion:202 Resp: 118828

Ion Ratio Lower Upper

202 100

101 11.7 0.0 32.5

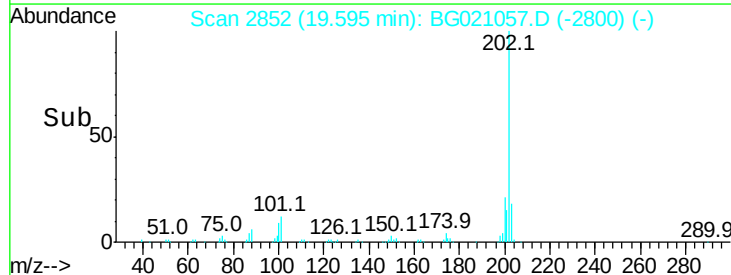
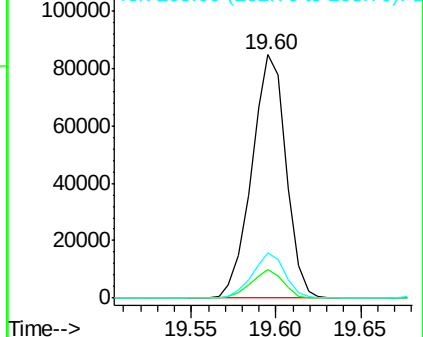
203 18.4 0.0 37.6

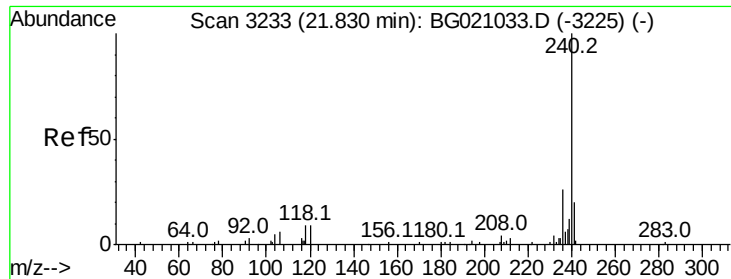


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.83 min Scan# 3232

Delta R.T. -0.00 min

Lab File: BG021057.D

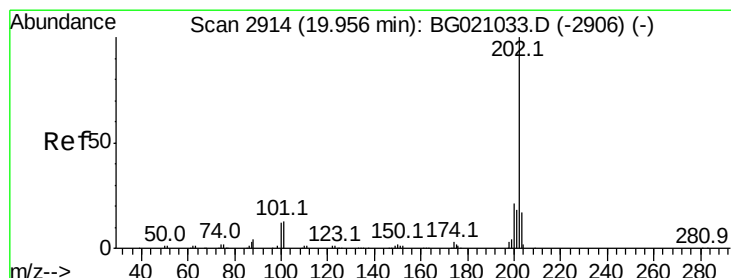
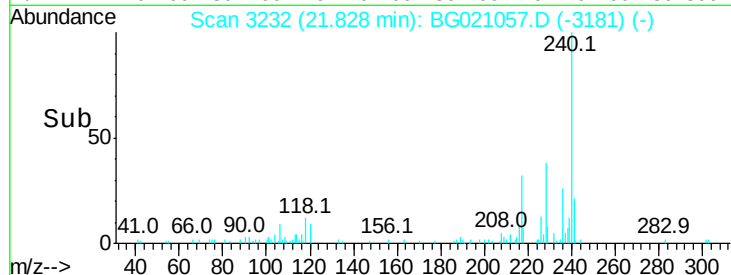
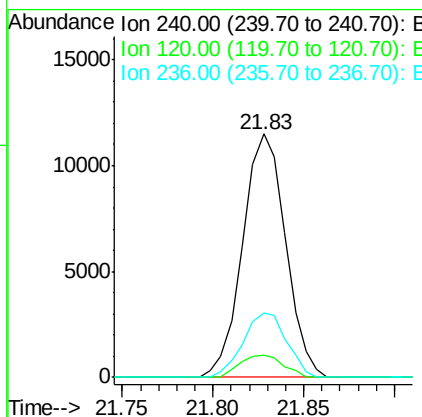
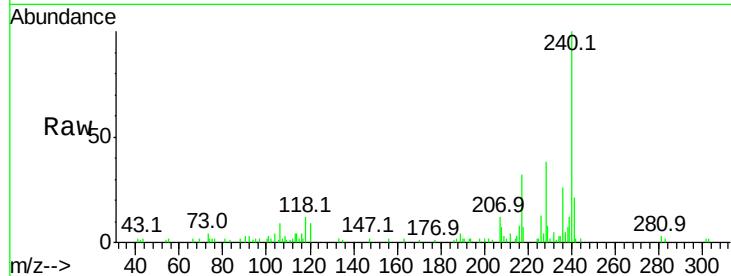
Acq: 24 Feb 2016 18:32

Instrument :

BNA_G

ClientSampleId :

Tot Ion:240	Resp:	18917
Ion Ratio	Lower	Upper
240	100	
120	9.2	7.5 11.3
236	26.5	20.5 30.7



#77

Pyrene

Concen: 42.51 ng

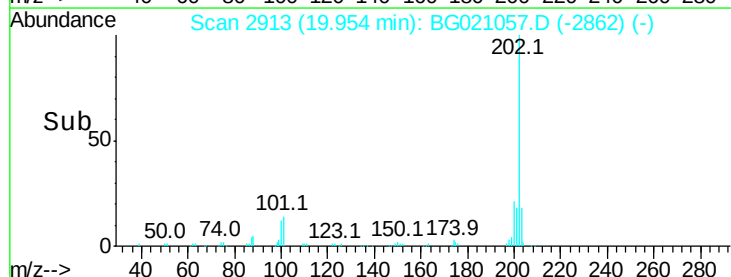
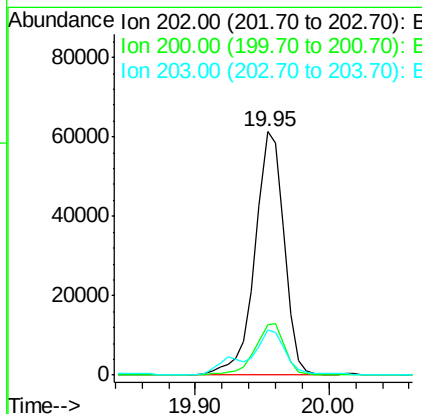
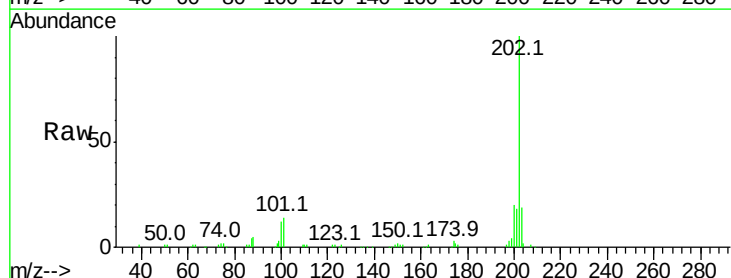
RT: 19.95 min Scan# 2913

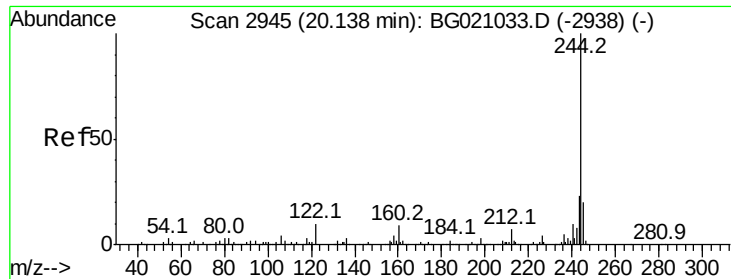
Delta R.T. -0.00 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

Tgt Ion:202	Resp:	91874
Ion Ratio	Lower	Upper
202	100	
200	20.5	16.6 25.0
203	18.6	13.8 20.8





#78

Terphenyl-d14

Concen: 37.75 ng

RT: 20.14 min Scan# 2944

Delta R.T. -0.00 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

Instrument :

BNA_G

ClientSampled :

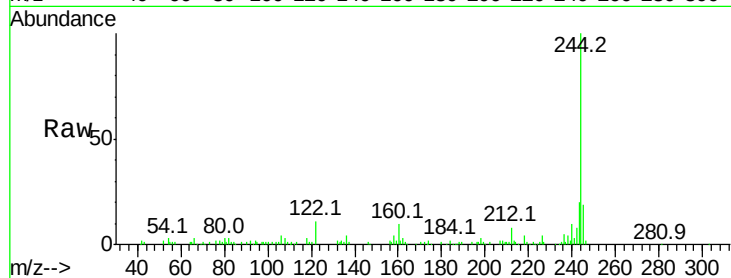
Tot Ion:244 Resp: 55027

Ion Ratio Lower Upper

244 100

212 7.6 5.8 8.6

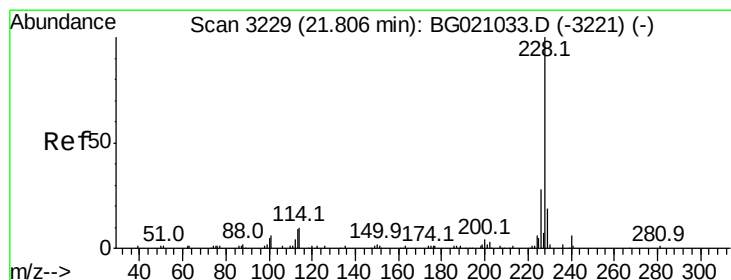
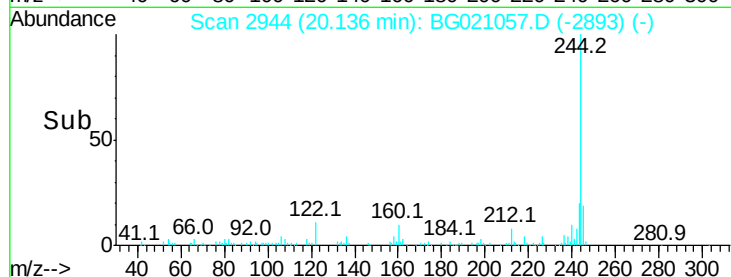
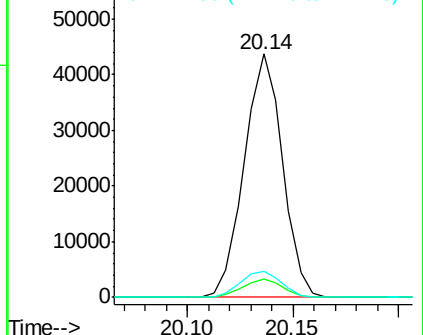
122 10.9 8.3 12.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 37.87 ng

RT: 21.80 min Scan# 3228

Delta R.T. -0.00 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

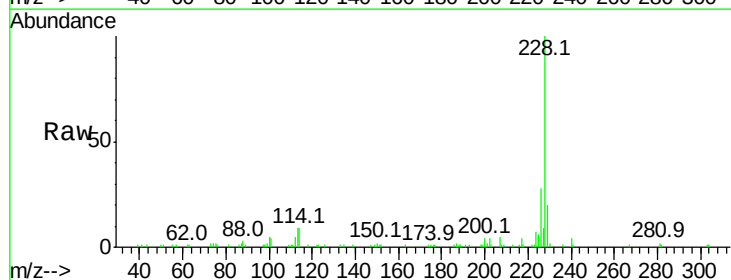
Tgt Ion:228 Resp: 42959

Ion Ratio Lower Upper

228 100

226 27.9 22.7 34.1

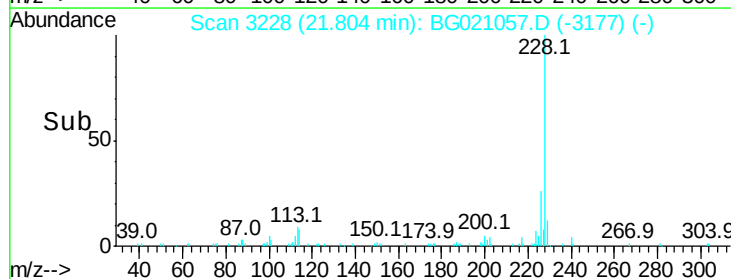
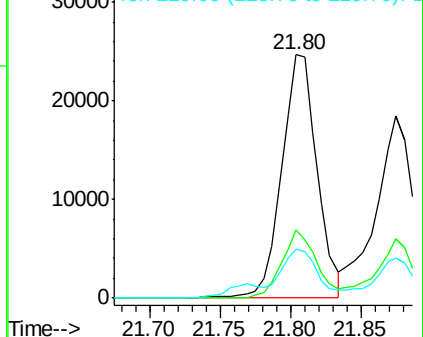
229 20.4 15.5 23.3

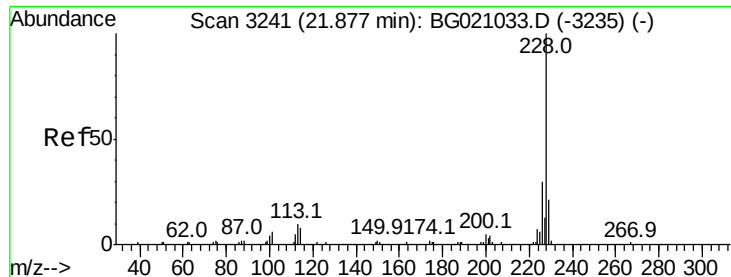


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 30.64 ng

RT: 21.87 min Scan# 3240

Delta R.T. -0.00 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

Instrument :

BNA_G

ClientSampleId :

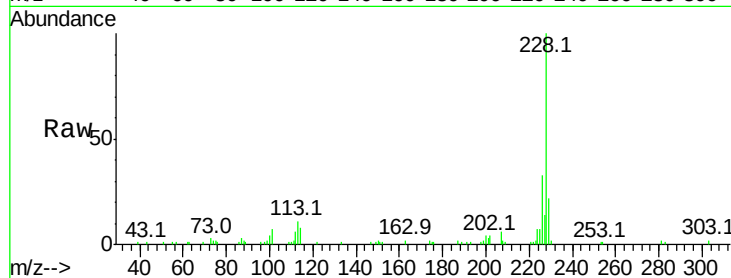
Tot Ion:228 Resp: 32428

Ion Ratio Lower Upper

228 100

226 32.7 23.7 35.5

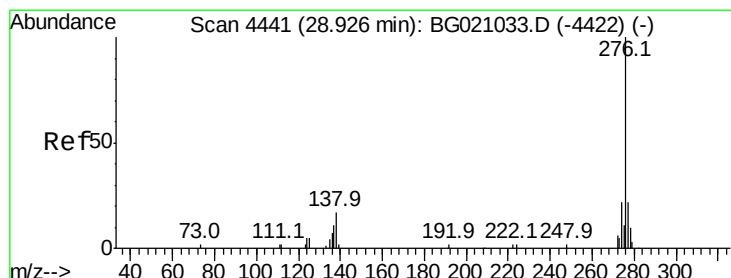
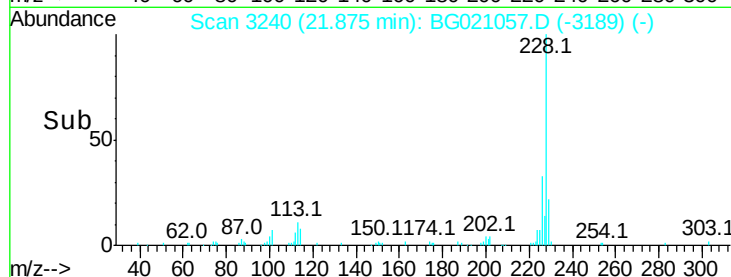
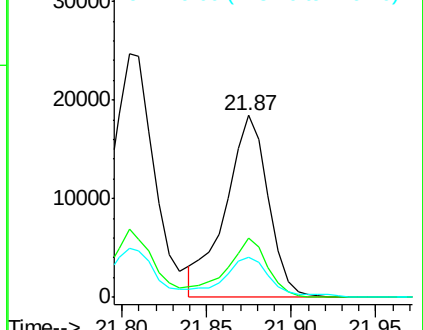
229 22.0 16.7 25.1



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 21.70 ng

RT: 28.93 min Scan# 4441

Delta R.T. 0.00 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

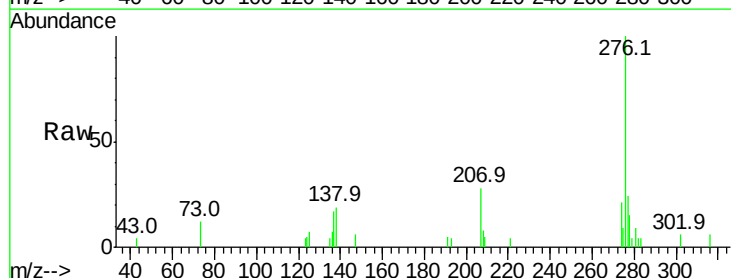
Tgt Ion:276 Resp: 20658

Ion Ratio Lower Upper

276 100

138 12.3 0.0 0.0#

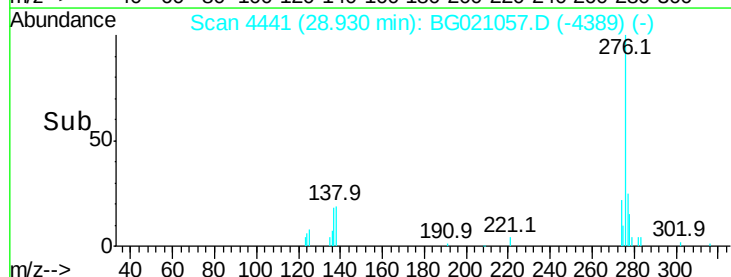
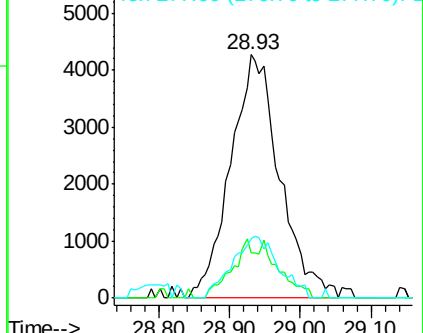
277 24.0 0.0 0.0#

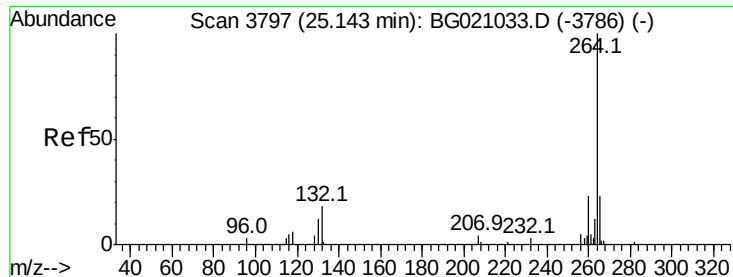


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



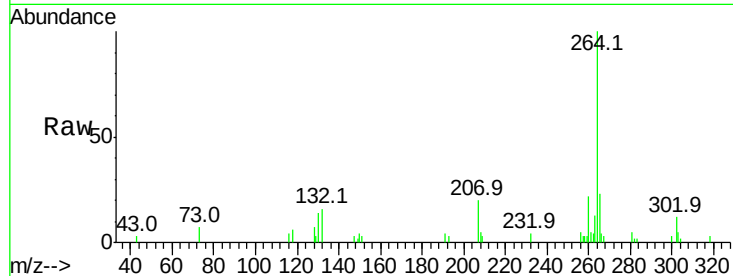


#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.15 min Scan# 3797
Delta R.T. 0.00 min
Lab File: BG021057.D
Acq: 24 Feb 2016 18:32

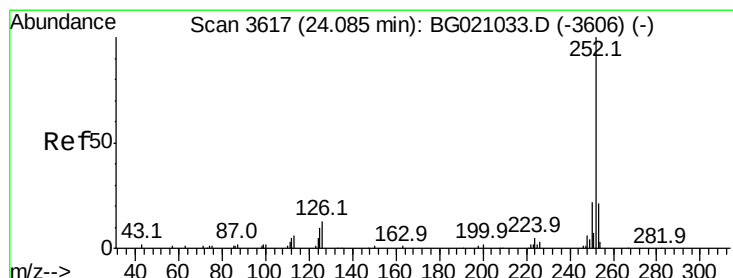
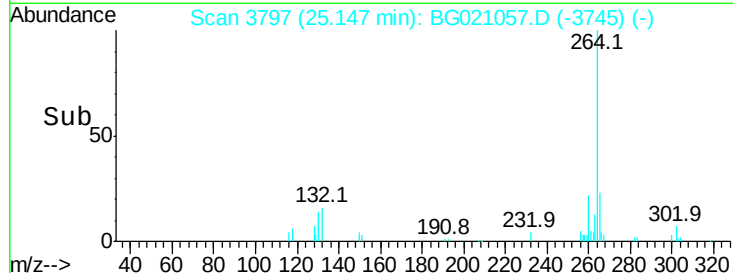
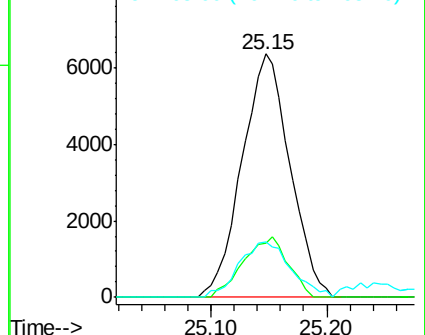
Instrument :
BNA_G
ClientSampleId :

Tot Ion:264 Resp: 18274

Ion	Ratio	Lower	Upper
264	100		
260	22.2	18.5	27.7
265	22.7	18.6	28.0



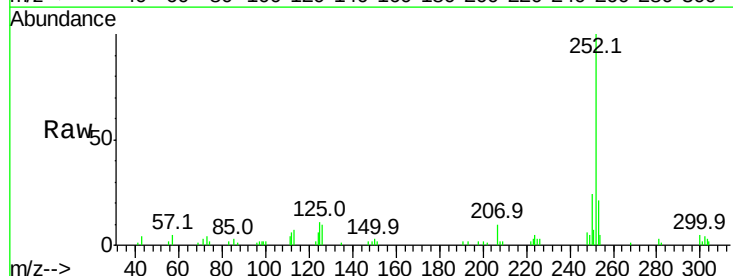
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



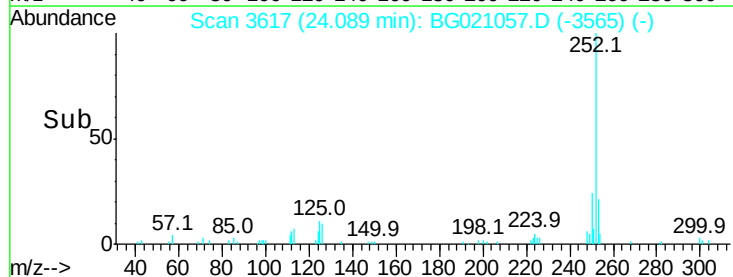
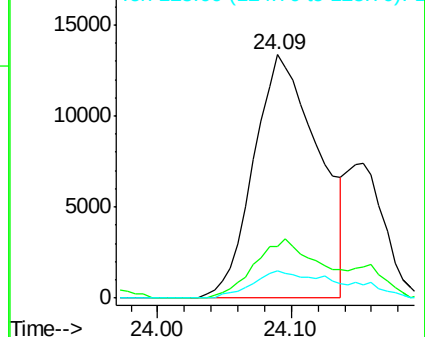
#87
Benzo(b)fluoranthene
Concen: 37.25 ng
RT: 24.09 min Scan# 3617
Delta R.T. 0.00 min
Lab File: BG021057.D
Acq: 24 Feb 2016 18:32

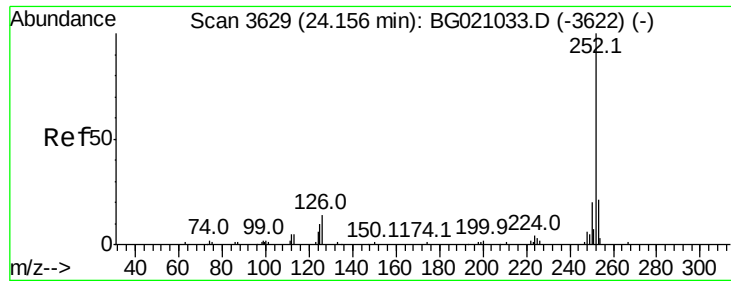
Tgt Ion:252 Resp: 44877

Ion	Ratio	Lower	Upper
252	100		
253	21.3	16.8	25.2
125	11.1	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

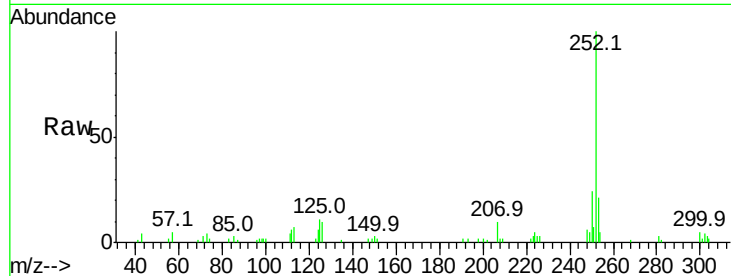




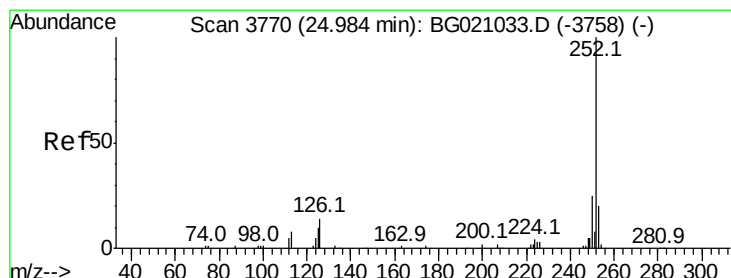
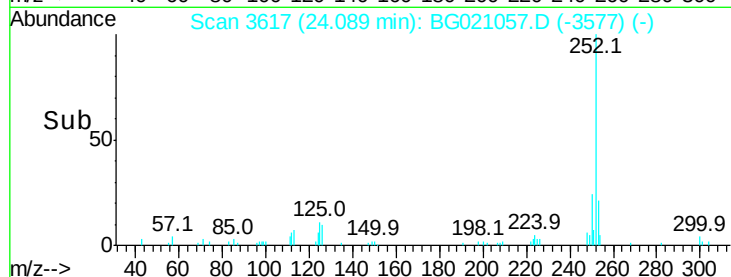
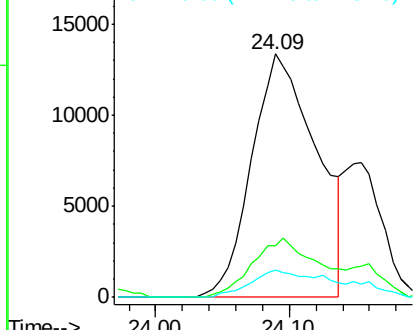
#88
Benzo(k)fluoranthene
Concen: 39.48 ng
RT: 24.09 min Scan# 3617
Delta R.T. -0.07 min
Lab File: BG021057.D
Acq: 24 Feb 2016 18:32

Instrument :
BNA_G
ClientSampleId :

Tot Ion:252 Resp: 44877
Ion Ratio Lower Upper
252 100
253 21.3 16.4 24.6
125 11.1 8.2 12.2

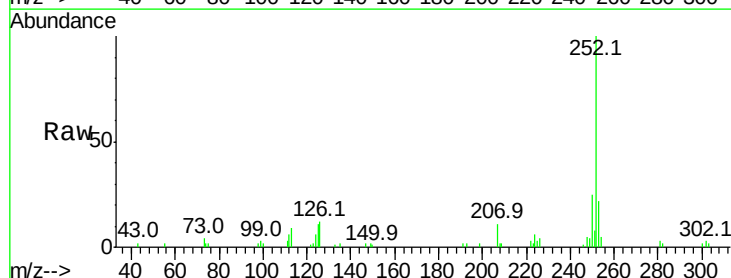


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

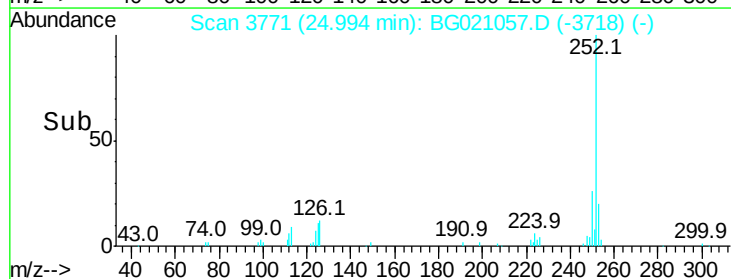
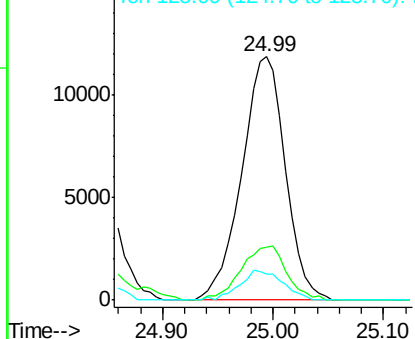


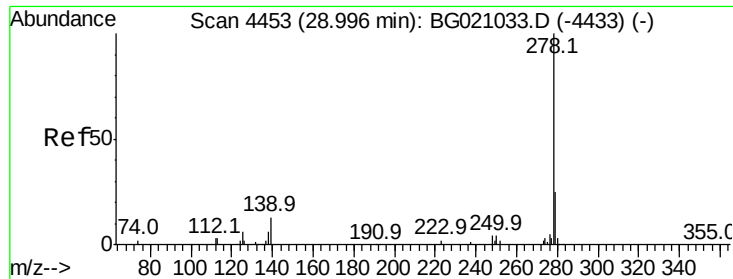
#89
Benzo(a)pyrene
Concen: 30.40 ng
RT: 24.99 min Scan# 3771
Delta R.T. 0.01 min
Lab File: BG021057.D
Acq: 24 Feb 2016 18:32

Tgt Ion:252 Resp: 32820
Ion Ratio Lower Upper
252 100
253 22.0 15.8 23.8
125 10.9 8.4 12.6



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





#90

Dibenzo(a,h)anthracene

Concen: 2.60 ng

RT: 28.96 min Scan# 4446

Delta R.T. -0.04 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

Instrument :

BNA_G

ClientSampled :

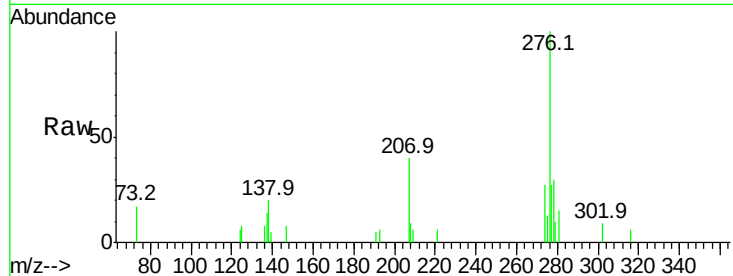
Tot Ion:278 Resp: 2527

Ion Ratio Lower Upper

278 100

139 17.5 10.6 15.8#

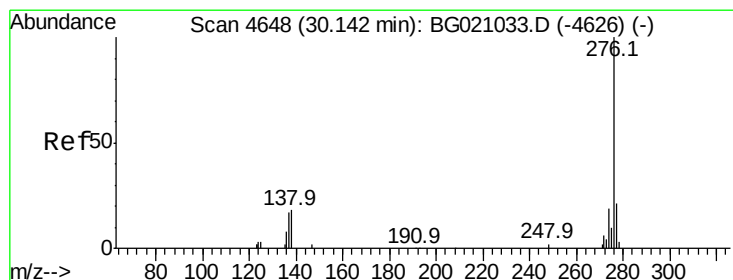
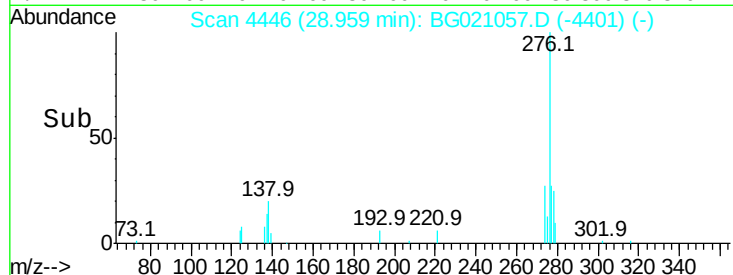
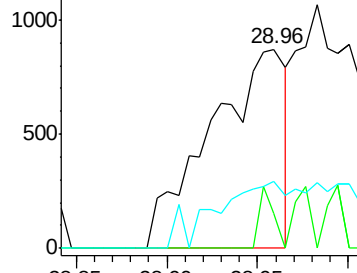
279 33.4 19.7 29.5#



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



#91

Benzo(g,h,i)perylene

Concen: 18.37 ng

RT: 30.13 min Scan# 4646

Delta R.T. -0.01 min

Lab File: BG021057.D

Acq: 24 Feb 2016 18:32

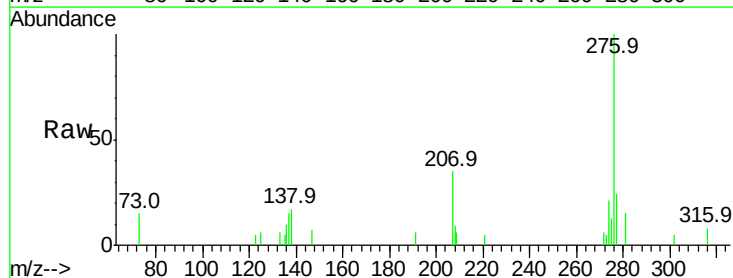
Tgt Ion:276 Resp: 17823

Ion Ratio Lower Upper

276 100

277 24.0 16.6 25.0

138 16.9 14.6 21.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

