

Data Path : S:\HPCHEM1\BNA_G\DATA\BG022916\
 Data File : BG021182.D
 Acq On : 1 Mar 2016 10:46
 Operator : UM/SJ
 Sample : H1520-19RE
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 40050+15(0-2)RE

Quant Time: Mar 01 13:47:04 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 29 17:40:25 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.16	152	13803	20.00	ng	0.00
21) Naphthalene-d8	10.96	136	66153	20.00	ng	0.00
38) Acenaphthene-d10	14.76	164	36384	20.00	ng	0.00
63) Phenanthrene-d10	17.49	188	76211	20.00	ng	0.00
75) Chrysene-d12	21.76	240	80620	20.00	ng	0.00
86) Perylene-d12	25.03	264	74692	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.71	112	123945	142.75	ng	0.00
7) Phenol-d6	7.30	99	188401	131.96	ng	0.00
23) Nitrobenzene-d5	9.31	82	135395	86.61	ng	0.00
41) 2,4,6-Tribromophenol	16.24	330	45719	120.77	ng	0.00
44) 2-Fluorobiphenyl	13.38	172	207289	80.90	ng	0.00
78) Terphenyl-d14	20.08	244	245790	73.86	ng	0.00

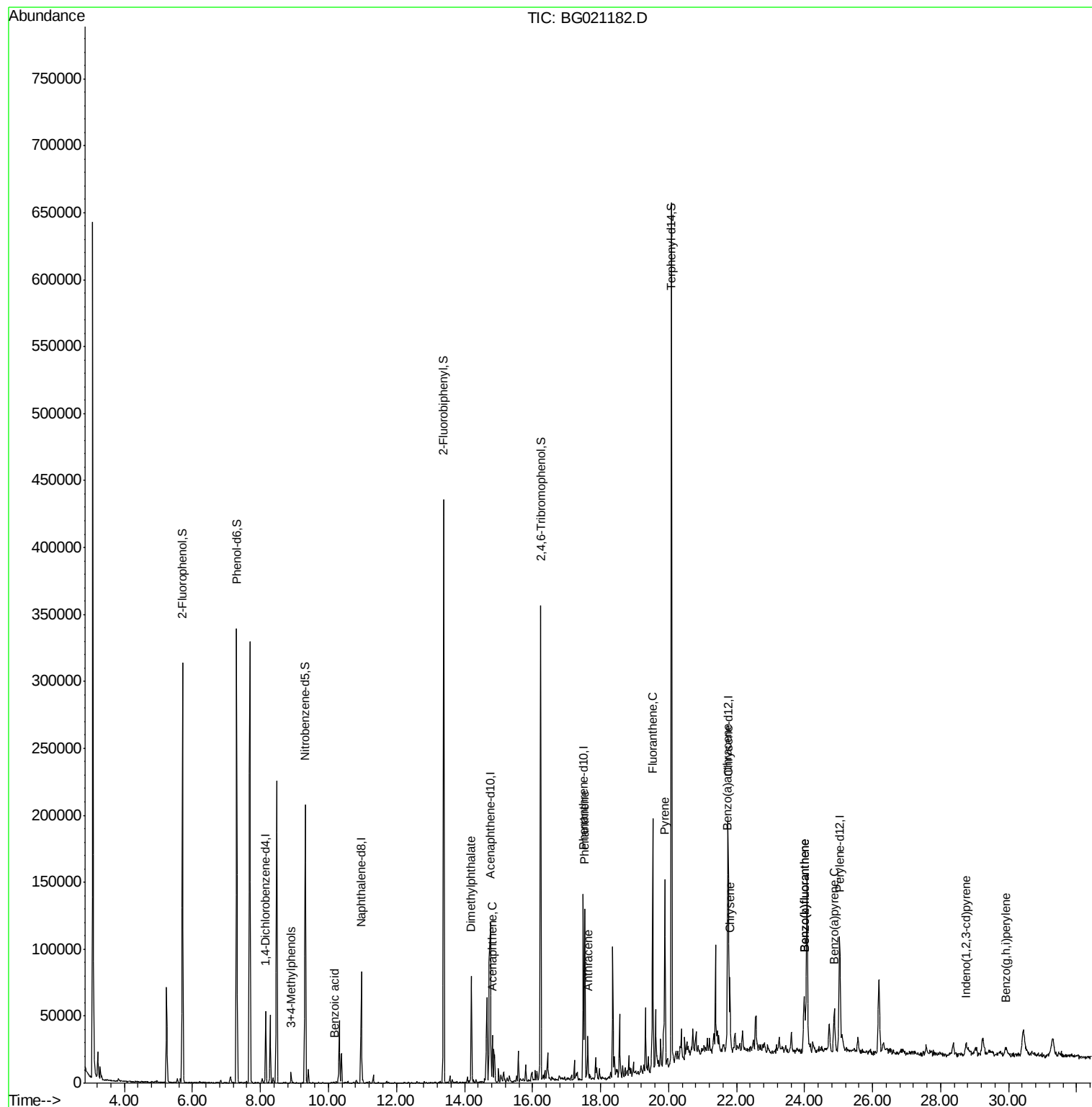
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
20) 3+4-Methylphenols	8.90	107	4057	2.72	ng	91
32) Benzoic acid	10.16	122	134	5.81	ng	# 69
49) Dimethylphthalate	14.20	163	44609	13.76	ng	96
51) Acenaphthene	14.82	154	5786	2.40	ng	94
70) Phenanthrene	17.53	178	72282	17.57	ng	98
71) Anthracene	17.63	178	17718	4.21	ng	99
74) Fluoranthene	19.53	202	102450	21.20	ng	99
77) Pyrene	19.89	202	81359	16.92	ng	99
80) Benzo(a)anthracene	21.73	228	41454	8.68	ng	98
82) Chrysene	21.80	228	34573	7.64	ng	96
85) Indeno(1,2,3-cd)pyrene	28.75	276	15135	2.92	ng	# 100
87) Benzo(b)fluoranthene	23.99	252	44955	9.57	ng	# 97
88) Benzo(k)fluoranthene	23.99	252	44955	9.55	ng	# 97
89) Benzo(a)pyrene	24.87	252	31021	6.83	ng	# 88
91) Benzo(g,h,i)perylene	29.92	276	13112	3.02	ng	93

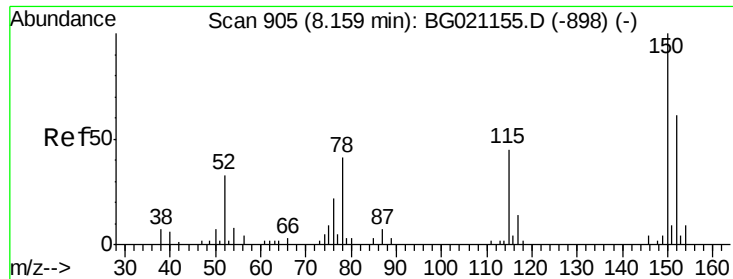
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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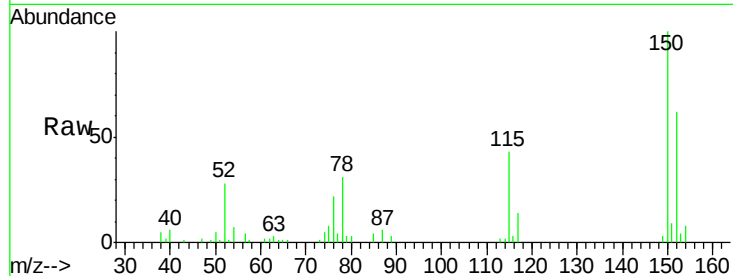


#1

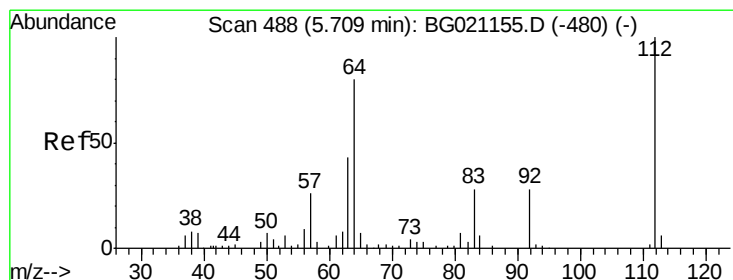
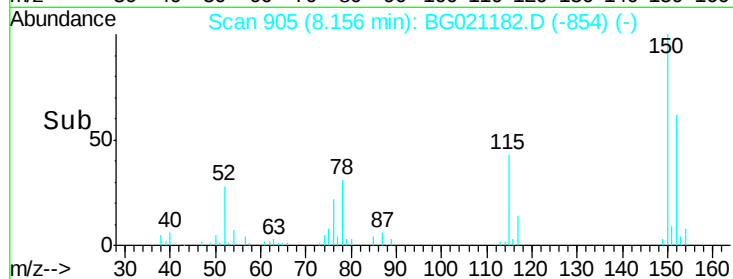
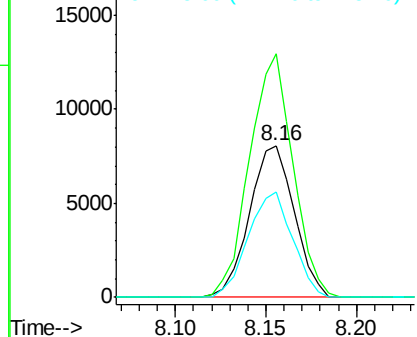
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.16 min Scan# 905
Delta R.T. -0.00 min
Lab File: BG021182.D
Acq: 1 Mar 2016 10:46

Instrument :
BNA_G
ClientSampleId :
40050+15(0-2)RE

Tgt Ion:152 Resp: 13803
Ion Ratio Lower Upper
152 100
150 160.3 123.4 185.2
115 69.6 43.3 64.9#



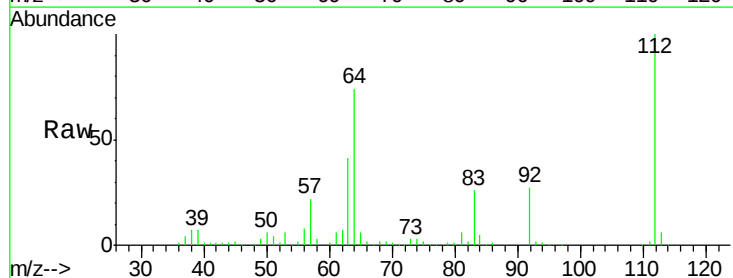
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



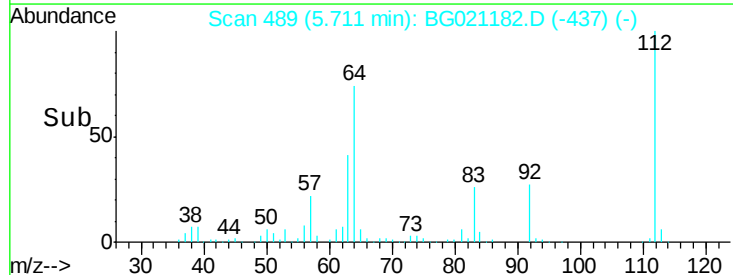
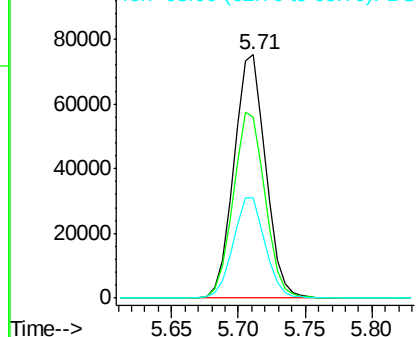
#5

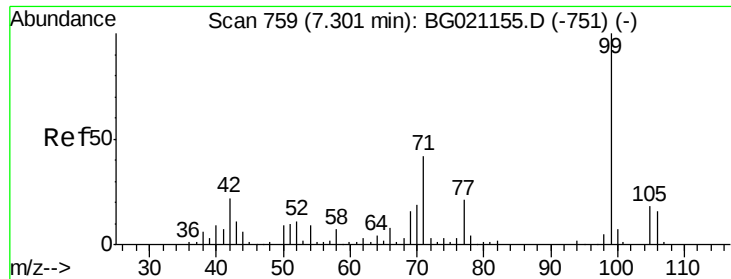
2-Fluorophenol
Concen: 142.75 ng
RT: 5.71 min Scan# 489
Delta R.T. 0.00 min
Lab File: BG021182.D
Acq: 1 Mar 2016 10:46

Tgt Ion:112 Resp: 123945
Ion Ratio Lower Upper
112 100
64 74.3 42.6 63.8#
63 41.3 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: 131.96 ng

RT: 7.30 min Scan# 760

Delta R.T. 0.00 min

Lab File: BG021182.D

Acq: 1 Mar 2016 10:46

Instrument :

BNA_G

ClientSampled :

40050+15(0-2)RE

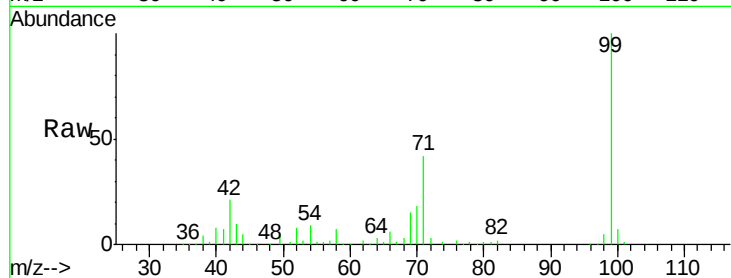
Tgt Ion: 99 Resp: 188401

Ion Ratio Lower Upper

99 100

42 20.8 13.2 19.8#

71 42.3 25.2 37.8#

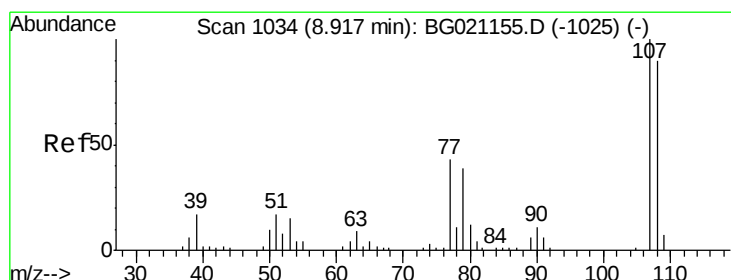
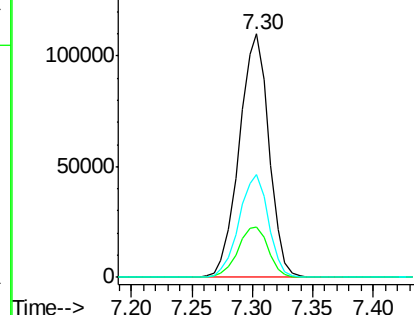
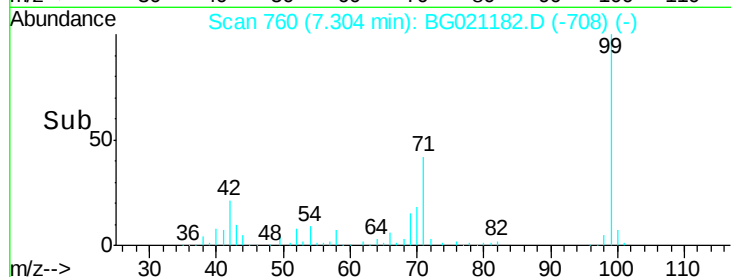


Abundance

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



#20

3+4-Methylphenols

Concen: 2.72 ng

RT: 8.90 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BG021182.D

Acq: 1 Mar 2016 10:46

Tgt Ion:107 Resp: 4057

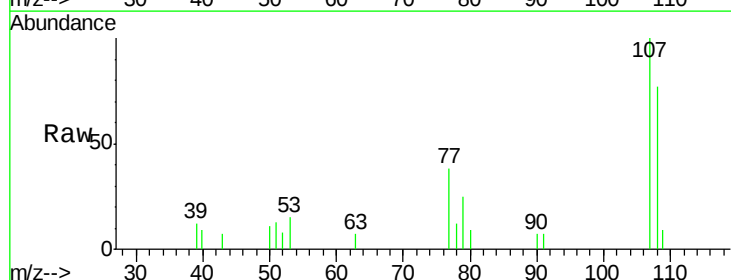
Ion Ratio Lower Upper

107 100

108 77.1 67.6 107.6

77 38.0 14.4 54.4

79 25.3 7.7 47.7



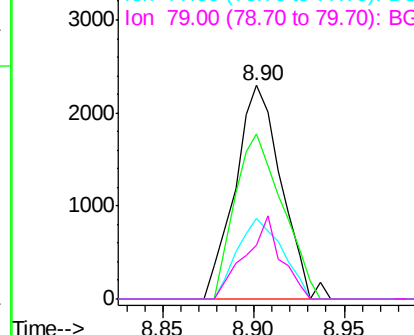
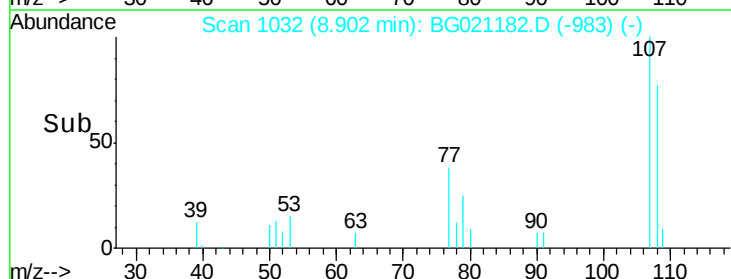
Abundance

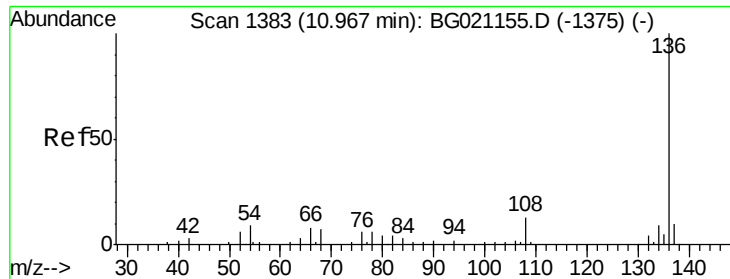
Ion 107.00 (106.70 to 107.70): BGC

Ion 108.00 (107.70 to 108.70): BGC

Ion 77.00 (76.70 to 77.70): BGC

Ion 79.00 (78.70 to 79.70): BGC

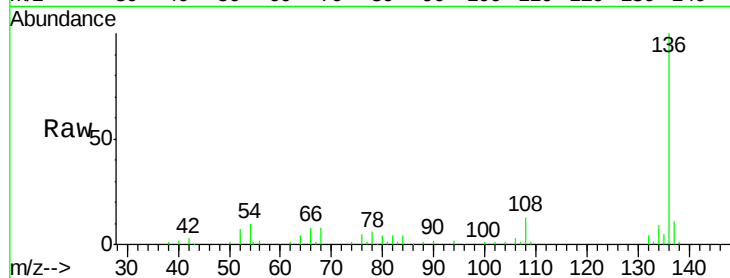




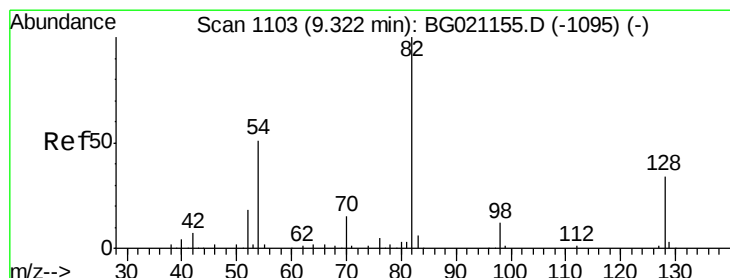
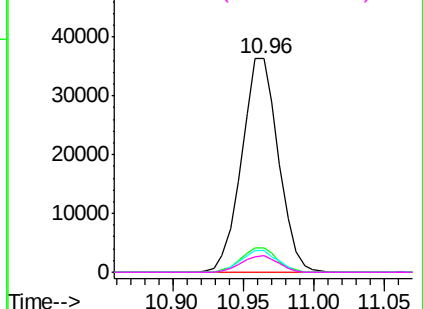
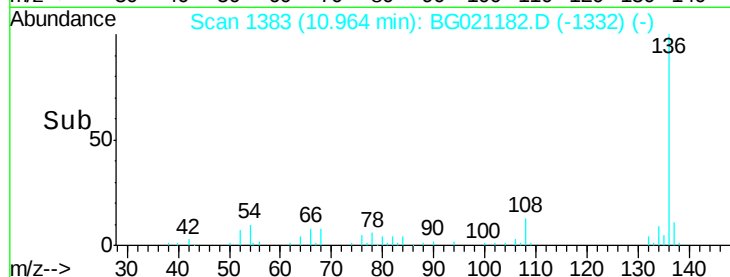
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.96 min Scan# 1383
Delta R.T. -0.00 min
Lab File: BG021182.D
Acq: 1 Mar 2016 10:46

Instrument :
BNA_G
ClientSampleId :
40050+15(0-2)RE

Tgt Ion:	136	Resp:	66153
Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.8	13.2
54	10.5	6.9	10.3#
68	7.6	5.8	8.6

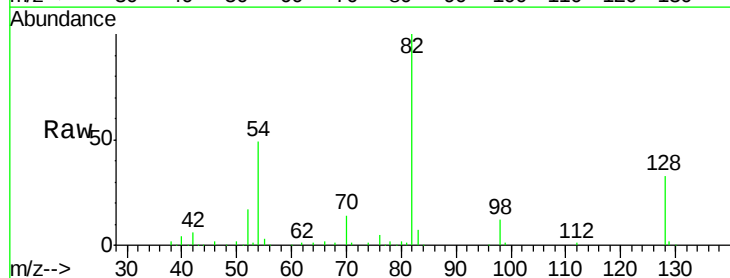


Abundance Ion 136.00 (135.70 to 136.70): B
Ion 137.00 (136.70 to 137.70): B
Ion 54.00 (53.70 to 54.70): B
Ion 68.00 (67.70 to 68.70): B

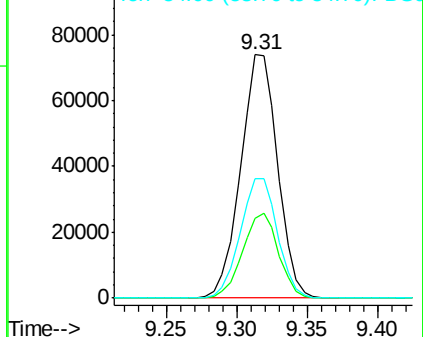
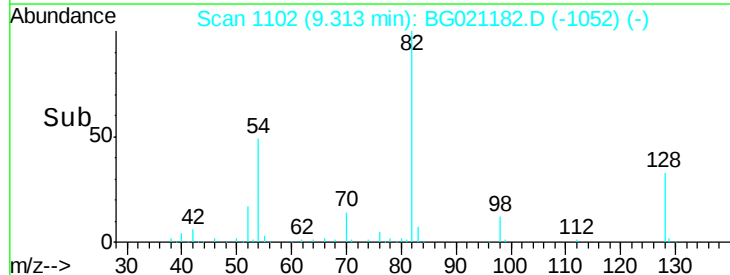


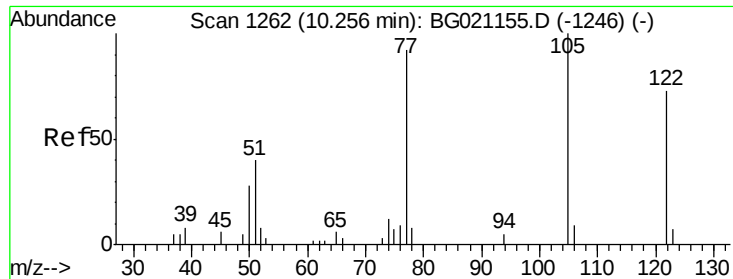
#23
Nitrobenzene-d5
Concen: 86.61 ng
RT: 9.31 min Scan# 1102
Delta R.T. -0.01 min
Lab File: BG021182.D
Acq: 1 Mar 2016 10:46

Tgt Ion:	82	Resp:	135395
Ion	Ratio	Lower	Upper
82	100		
128	32.7	36.3	54.5#
54	49.2	37.6	56.4



Abundance Ion 82.00 (81.70 to 82.70): B
Ion 128.00 (127.70 to 128.70): B
Ion 54.00 (53.70 to 54.70): B





#32

Benzoic acid

Concen: 5.81 ng

RT: 10.16 min Scan# 1247

Delta R.T. -0.09 min

Lab File: BG021182.D

Acq: 1 Mar 2016 10:46

Instrument :

BNA_G

ClientSampleId :

40050+15(0-2)RE

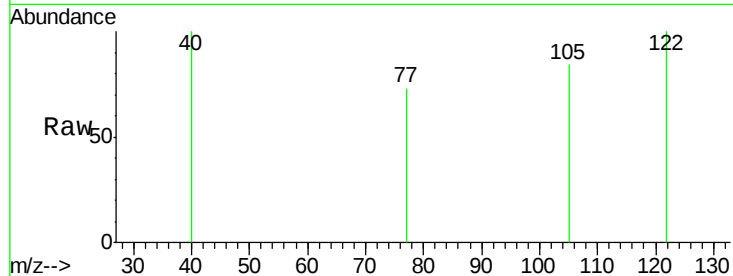
Tgt Ion:122 Resp: 134

Ion Ratio Lower Upper

122 100

105 84.4 98.7 138.7#

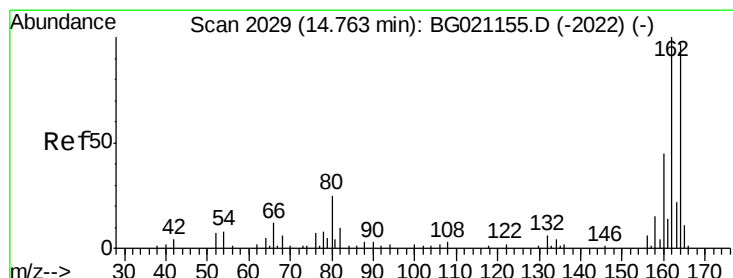
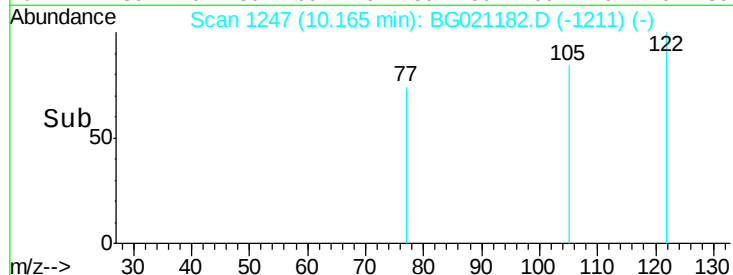
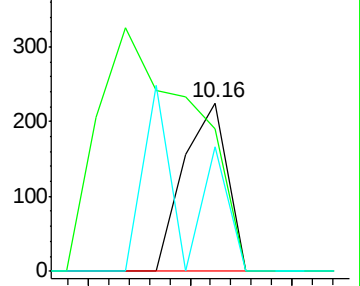
77 73.8 84.5 124.5#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.76 min Scan# 2029

Delta R.T. -0.00 min

Lab File: BG021182.D

Acq: 1 Mar 2016 10:46

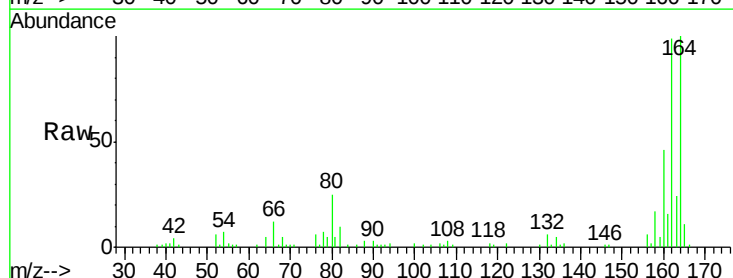
Tgt Ion:164 Resp: 36384

Ion Ratio Lower Upper

164 100

162 98.7 80.6 120.8

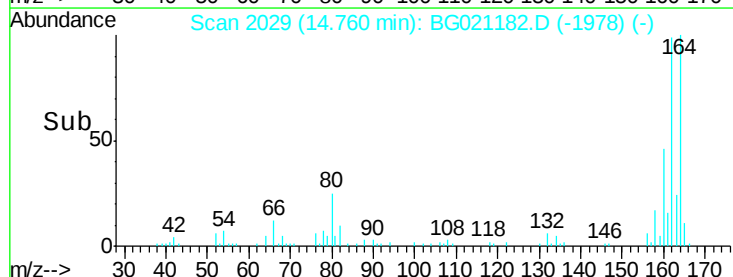
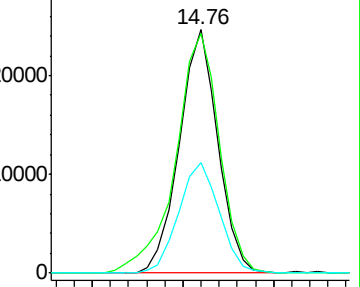
160 45.6 36.5 54.7

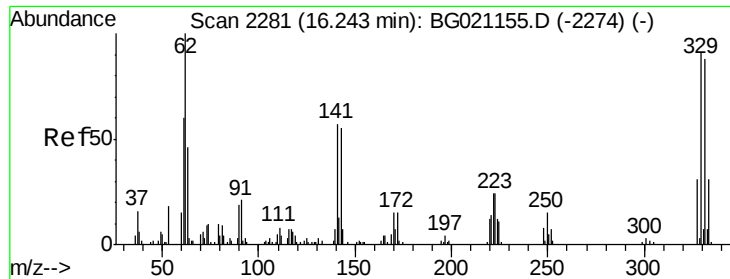


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

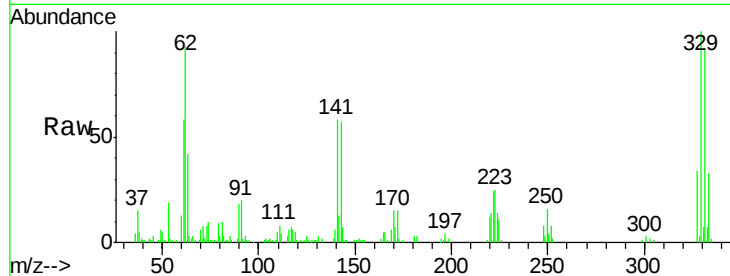




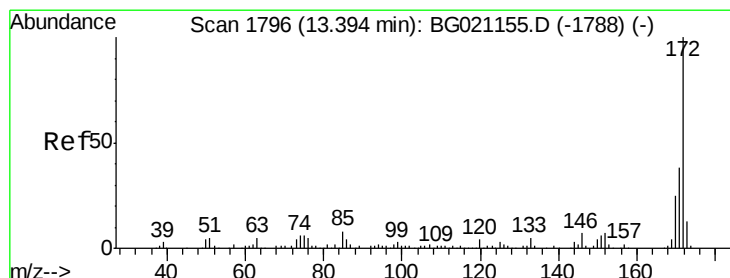
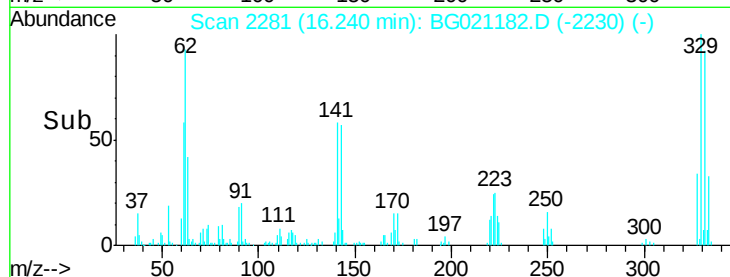
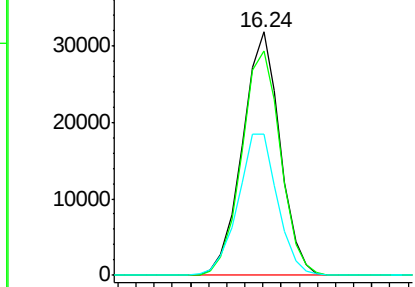
#41
 2,4,6-Tribromophenol
 Concen: 120.77 ng
 RT: 16.24 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: BG021182.D
 Acq: 1 Mar 2016 10:46

Instrument :
 BNA_G
 ClientSampleId :
 40050+15(0-2)RE

Tgt Ion:330 Resp: 45719
 Ion Ratio Lower Upper
 330 100
 332 95.4 77.4 116.0
 141 60.7 35.3 52.9#

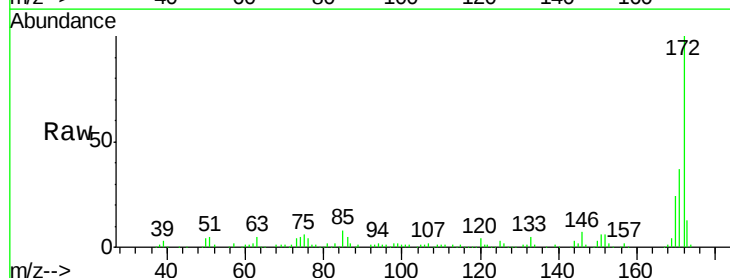


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

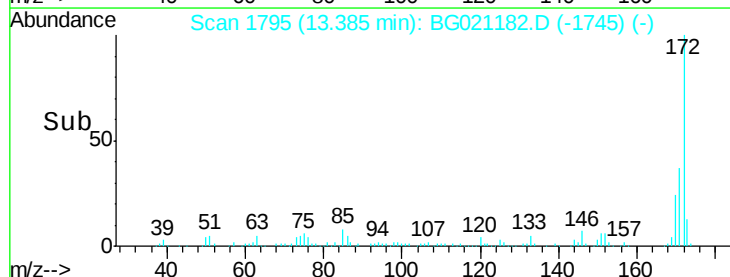
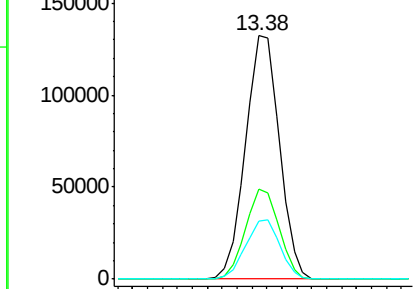


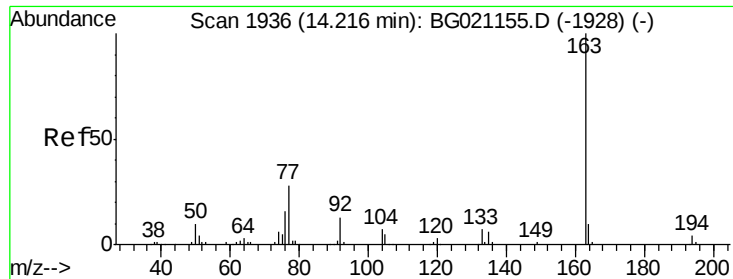
#44
 2-Fluorobiphenyl
 Concen: 80.90 ng
 RT: 13.38 min Scan# 1795
 Delta R.T. -0.01 min
 Lab File: BG021182.D
 Acq: 1 Mar 2016 10:46

Tgt Ion:172 Resp: 207289
 Ion Ratio Lower Upper
 172 100
 171 36.9 29.4 44.0
 170 23.7 19.8 29.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 13.76 ng

RT: 14.20 min Scan# 1934

Delta R.T. -0.01 min

Lab File: BG021182.D

Acq: 1 Mar 2016 10:46

Instrument :

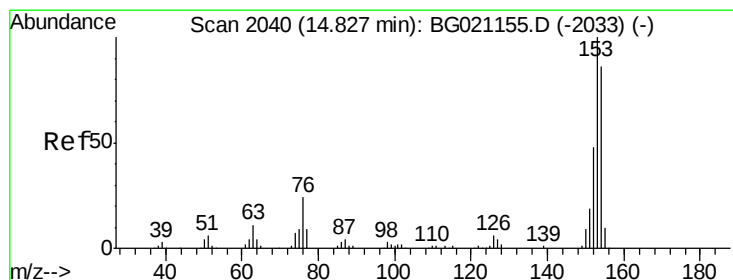
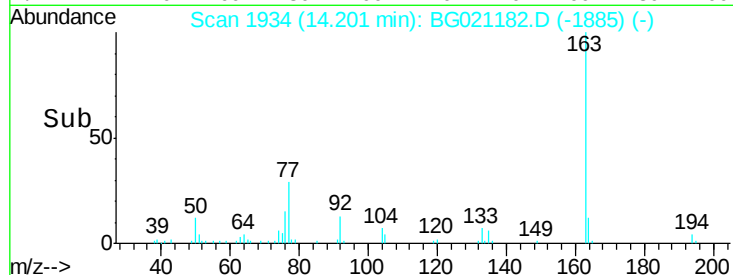
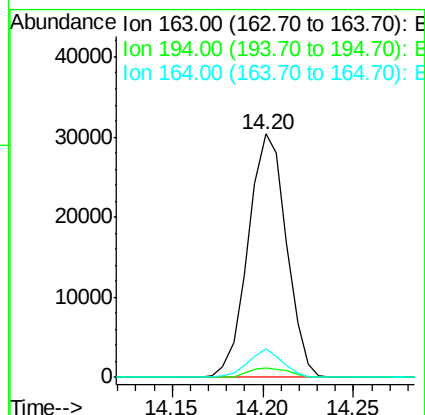
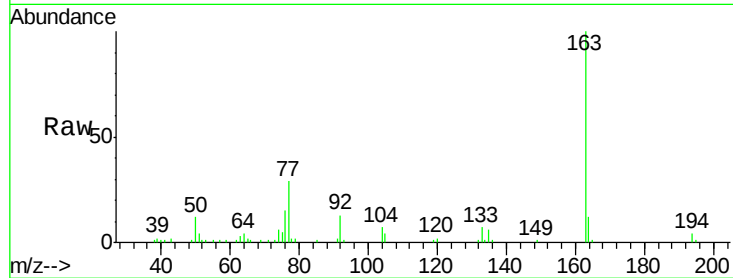
BNA_G

ClientSampleId :

40050+15(0-2)RE

Tgt Ion:163 Resp: 44609

Ion	Ratio	Lower	Upper
163	100		
194	3.9	2.8	4.2
164	11.7	7.9	11.9



#51

Acenaphthene

Concen: 2.40 ng

RT: 14.82 min Scan# 2040

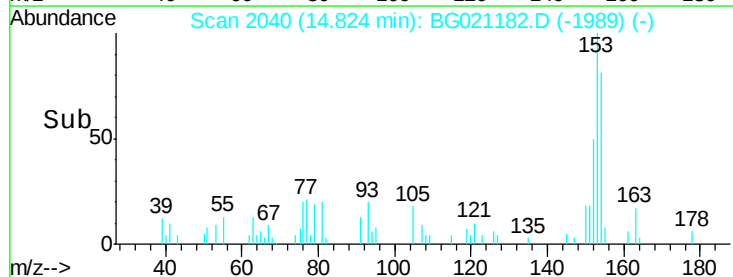
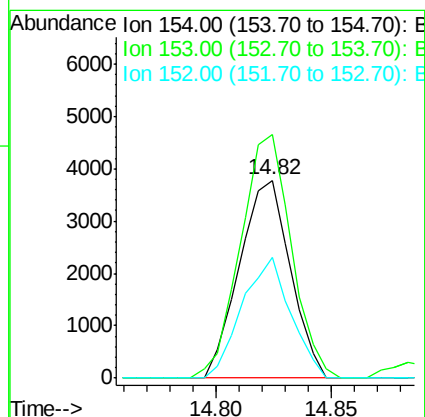
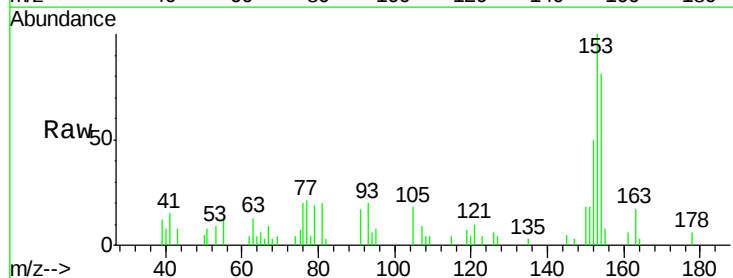
Delta R.T. -0.00 min

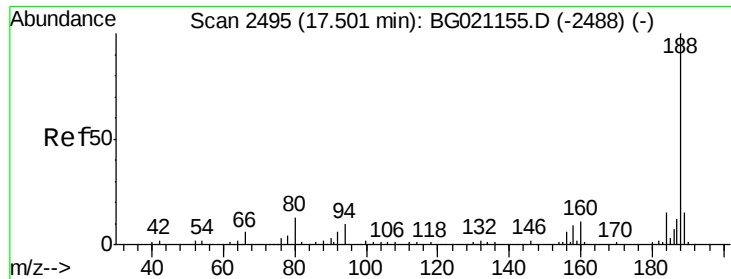
Lab File: BG021182.D

Acq: 1 Mar 2016 10:46

Tgt Ion:154 Resp: 5786

Ion	Ratio	Lower	Upper
154	100		
153	122.9	94.2	141.2
152	60.9	42.9	64.3

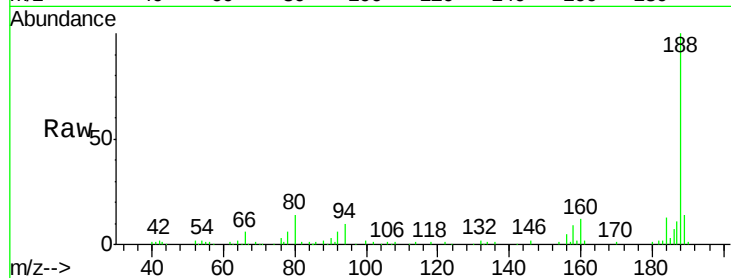




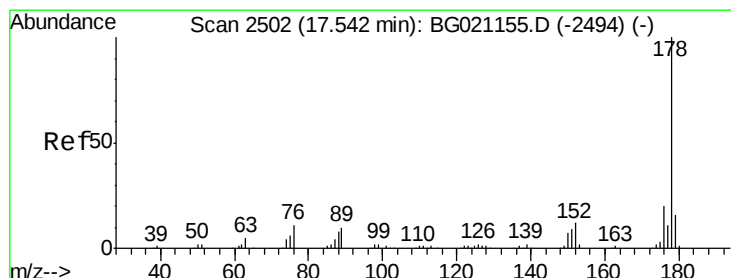
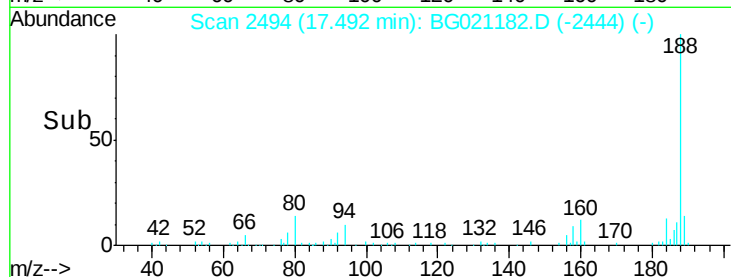
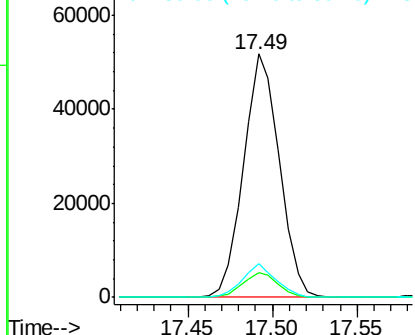
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.49 min Scan# 2494
 Delta R.T. -0.01 min
 Lab File: BG021182.D
 Acq: 1 Mar 2016 10:46

Instrument :
 BNA_G
 ClientSampleId :
 40050+15(0-2)RE

Tgt Ion:188 Resp: 76211
 Ion Ratio Lower Upper
 188 100
 94 10.2 8.2 12.4
 80 14.0 9.2 13.8#

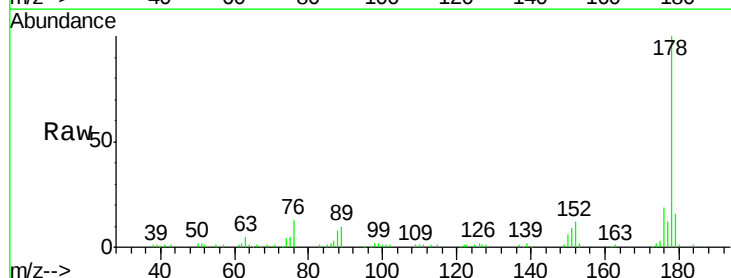


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BGO
 Ion 80.00 (79.70 to 80.70): BGO

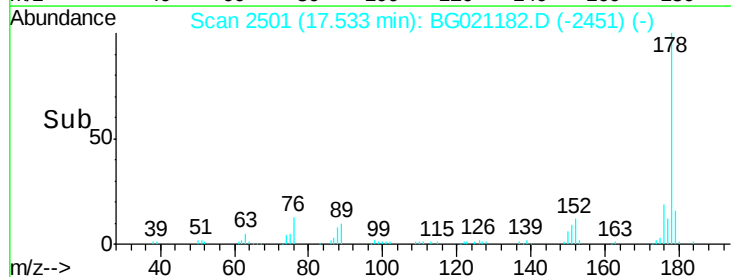
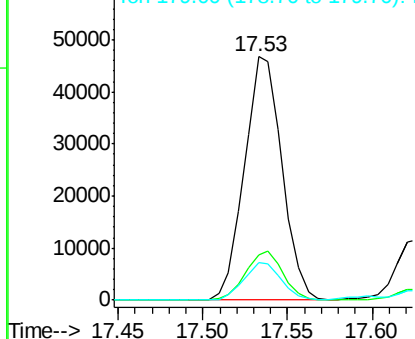


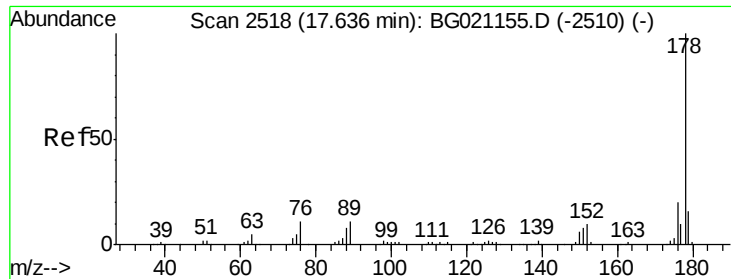
#70
 Phenanthrene
 Concen: 17.57 ng
 RT: 17.53 min Scan# 2501
 Delta R.T. -0.01 min
 Lab File: BG021182.D
 Acq: 1 Mar 2016 10:46

Tgt Ion:178 Resp: 72282
 Ion Ratio Lower Upper
 178 100
 176 18.7 16.2 24.4
 179 15.6 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

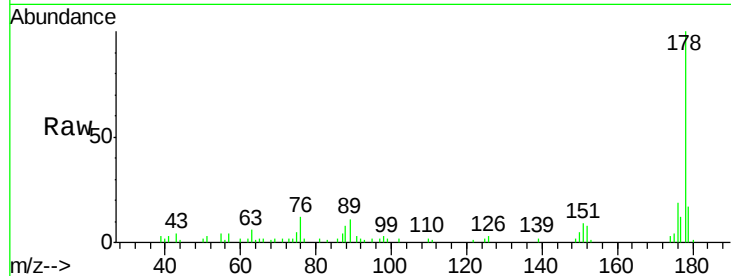




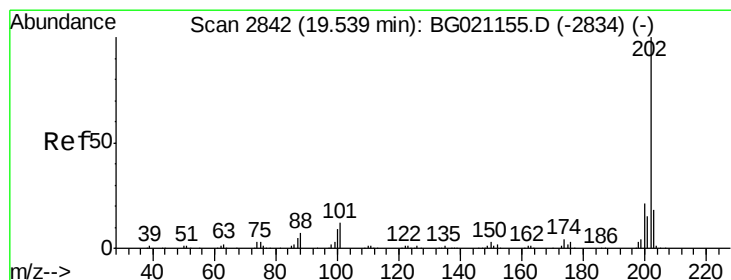
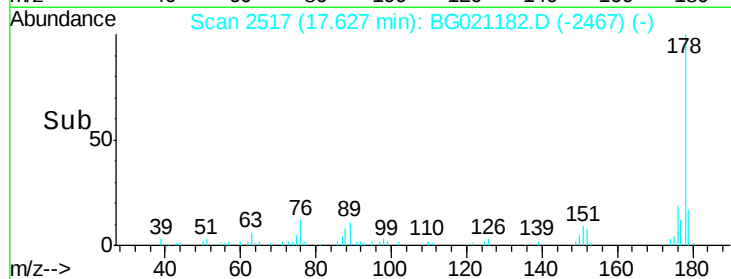
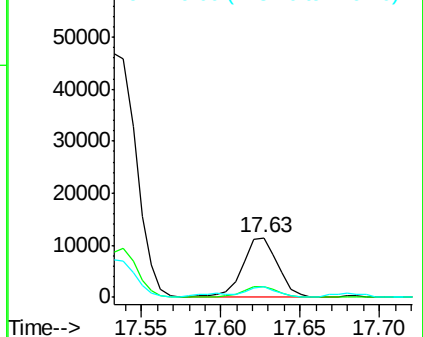
#71
 Anthracene
 Concen: 4.21 ng
 RT: 17.63 min Scan# 2517
 Delta R.T. -0.01 min
 Lab File: BG021182.D
 Acq: 1 Mar 2016 10:46

Instrument :
 BNA_G
 ClientSampleId :
 40050+15(0-2)RE

Tgt Ion:178 Resp: 17718
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.8 22.2
 179 16.8 12.6 19.0

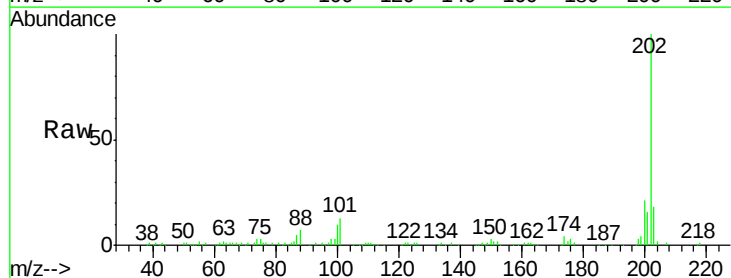


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

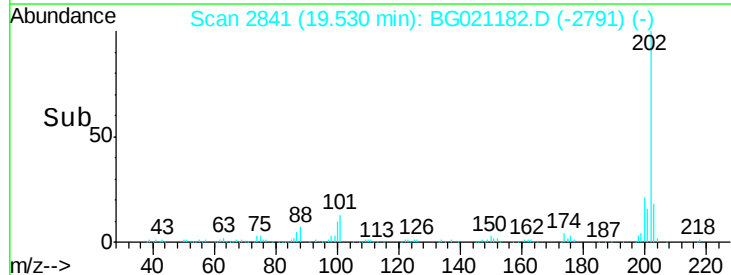
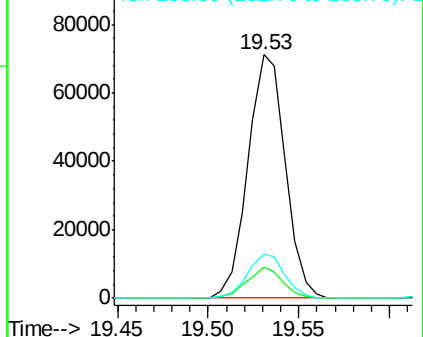


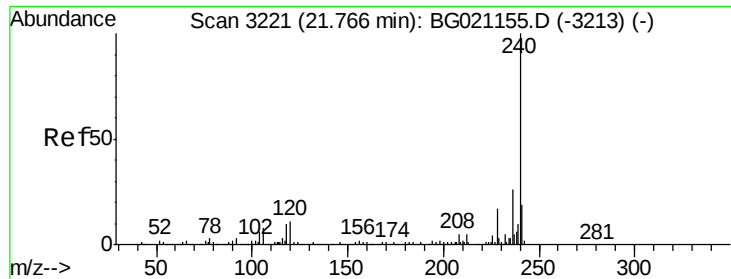
#74
 Fluoranthene
 Concen: 21.20 ng
 RT: 19.53 min Scan# 2841
 Delta R.T. -0.01 min
 Lab File: BG021182.D
 Acq: 1 Mar 2016 10:46

Tgt Ion:202 Resp: 102450
 Ion Ratio Lower Upper
 202 100
 101 12.7 0.0 32.5
 203 17.9 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

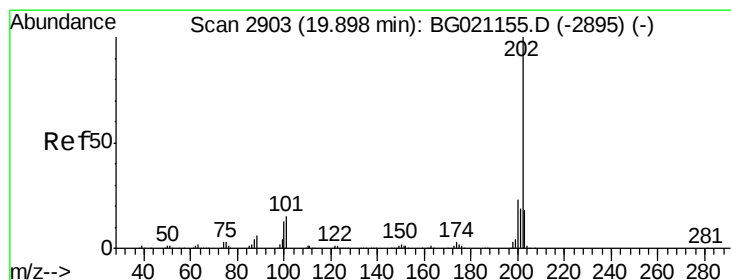
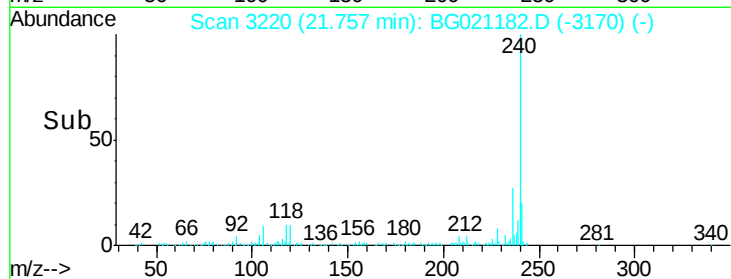
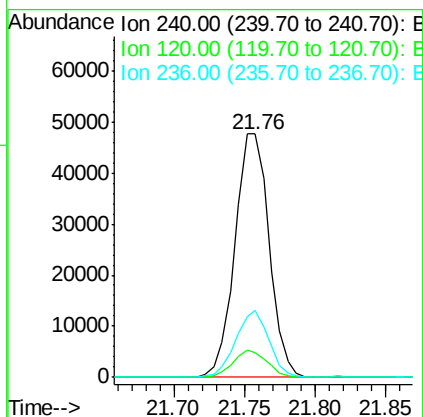
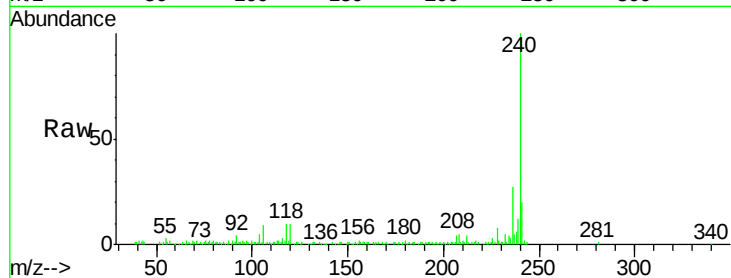




#75
Chrysene-d12
Concen: 20.00 ng
RT: 21.76 min Scan# 3220
Delta R.T. -0.01 min
Lab File: BG021182.D
Acq: 1 Mar 2016 10:46

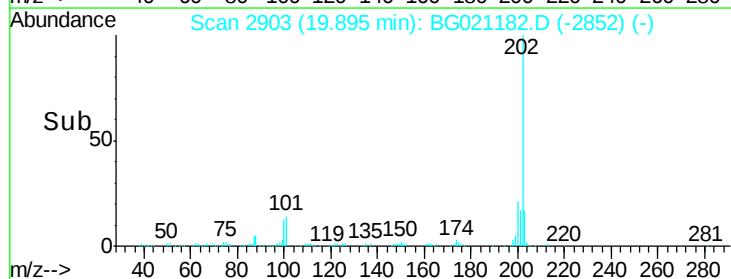
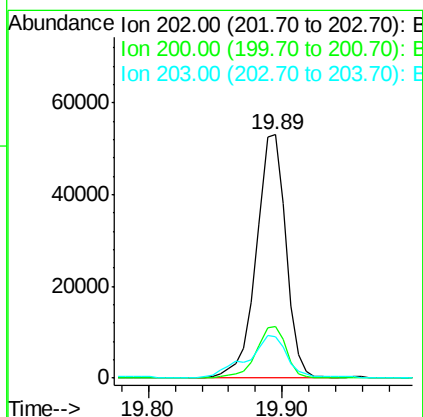
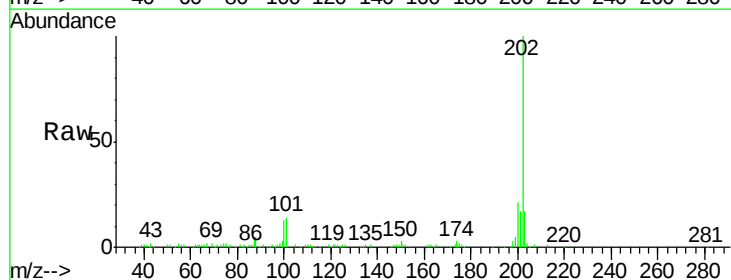
Instrument :
BNA_G
ClientSampleId :
40050+15(0-2)RE

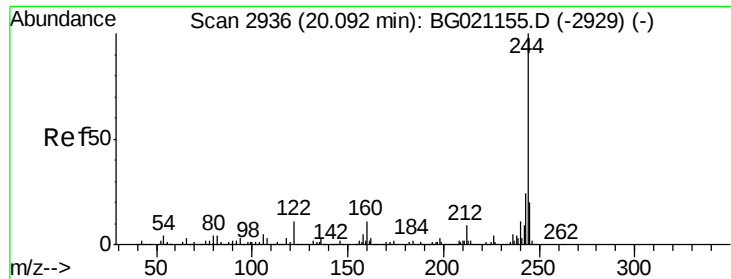
Tgt Ion:240 Resp: 80620
Ion Ratio Lower Upper
240 100
120 10.1 7.5 11.3
236 27.3 20.5 30.7



#77
Pyrene
Concen: 16.92 ng
RT: 19.89 min Scan# 2903
Delta R.T. -0.00 min
Lab File: BG021182.D
Acq: 1 Mar 2016 10:46

Tgt Ion:202 Resp: 81359
Ion Ratio Lower Upper
202 100
200 21.2 16.6 25.0
203 16.8 13.8 20.8





#78

Terphenyl-d14

Concen: 73.86 ng

RT: 20.08 min Scan# 2935

Delta R.T. -0.01 min

Lab File: BG021182.D

Acq: 1 Mar 2016 10:46

Instrument :

BNA_G

ClientSampleId :

40050+15(0-2)RE

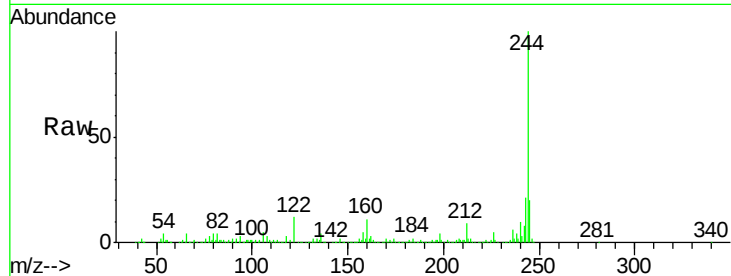
Tgt Ion:244 Resp: 245790

Ion Ratio Lower Upper

244 100

212 8.6 5.8 8.6

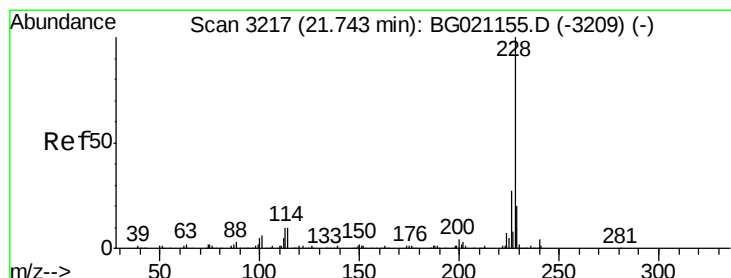
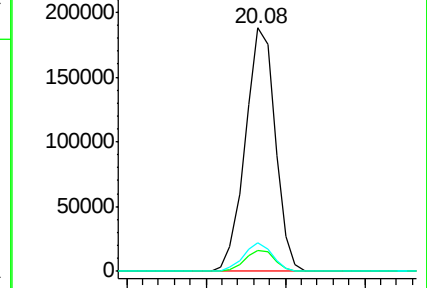
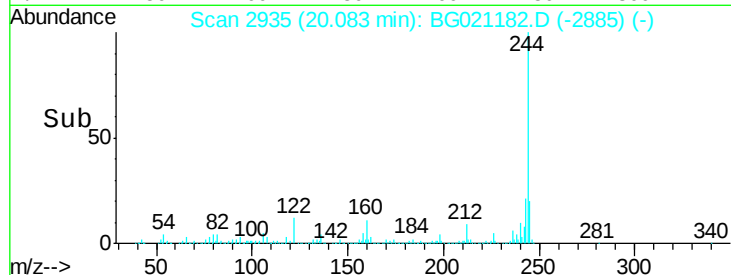
122 11.9 8.3 12.5



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: 8.68 ng

RT: 21.73 min Scan# 3216

Delta R.T. -0.01 min

Lab File: BG021182.D

Acq: 1 Mar 2016 10:46

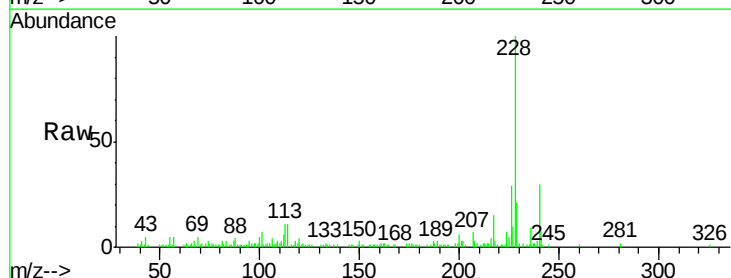
Tgt Ion:228 Resp: 41454

Ion Ratio Lower Upper

228 100

226 29.1 22.7 34.1

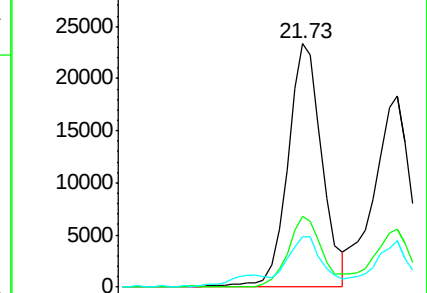
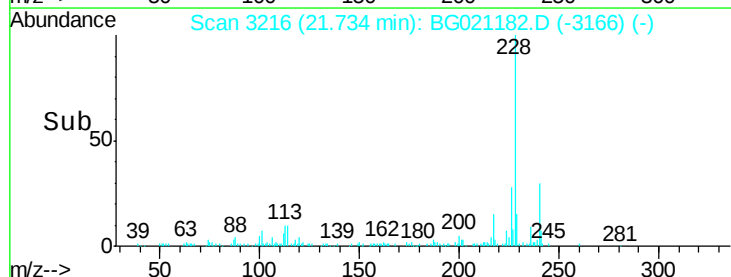
229 20.7 15.5 23.3

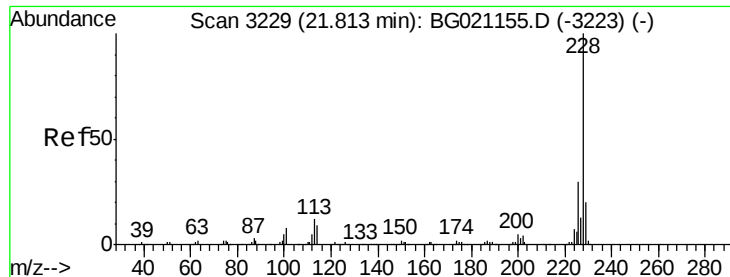


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 7.64 ng

RT: 21.80 min Scan# 3228

Delta R.T. -0.01 min

Lab File: BG021182.D

Acq: 1 Mar 2016 10:46

Instrument :

BNA_G

ClientSampleId :

40050+15(0-2)RE

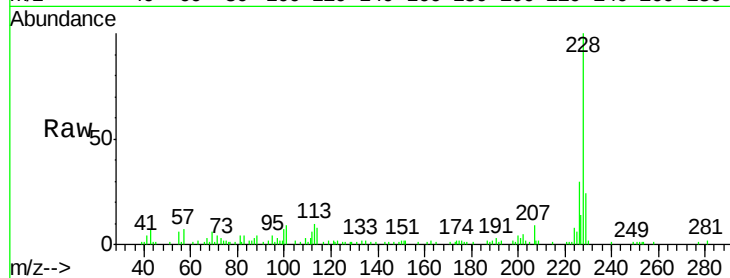
Tgt Ion:228 Resp: 34573

Ion Ratio Lower Upper

228 100

226 30.3 23.7 35.5

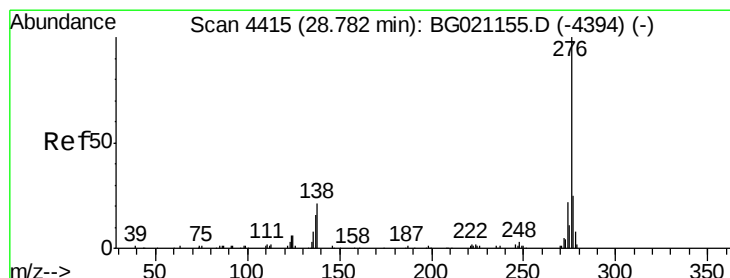
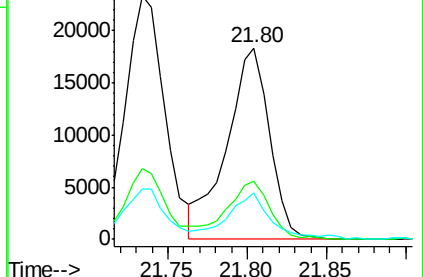
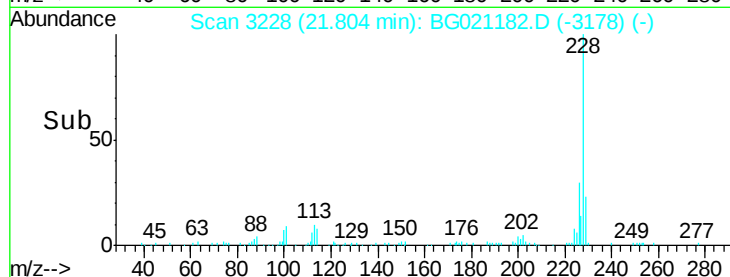
229 24.1 16.7 25.1



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: 2.92 ng

RT: 28.75 min Scan# 4411

Delta R.T. -0.03 min

Lab File: BG021182.D

Acq: 1 Mar 2016 10:46

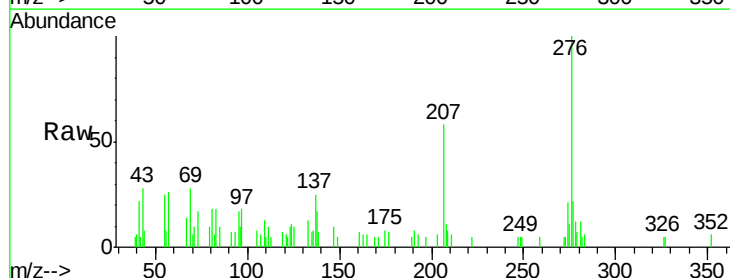
Tgt Ion:276 Resp: 15135

Ion Ratio Lower Upper

276 100

138 0.9 0.0 0.0#

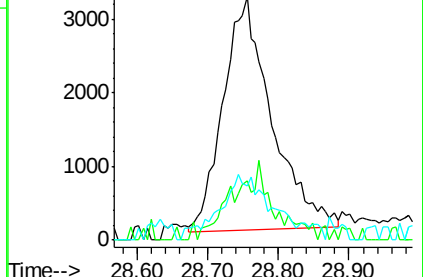
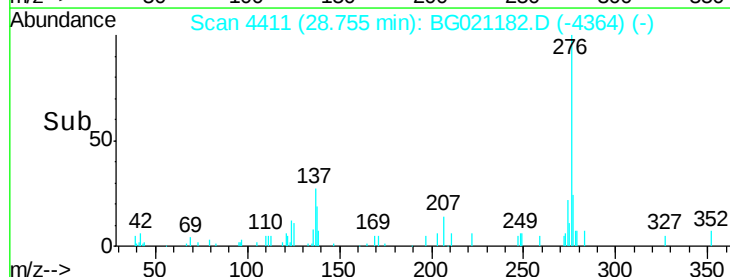
277 28.9 0.0 0.0#

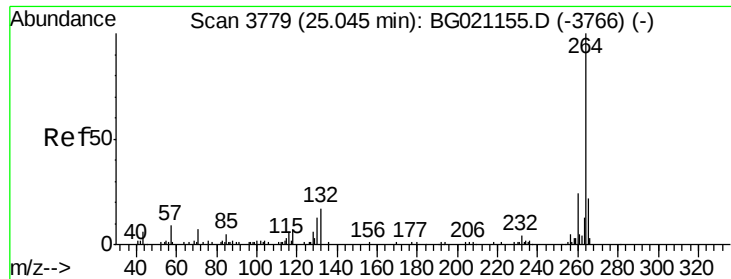


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

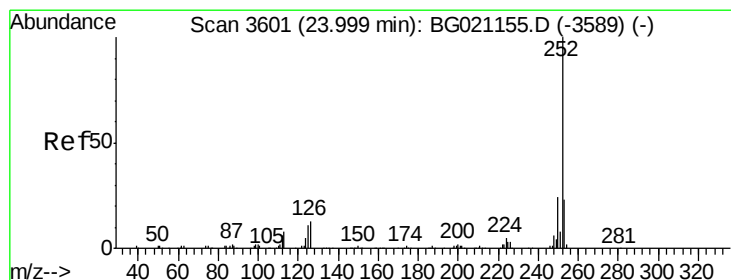
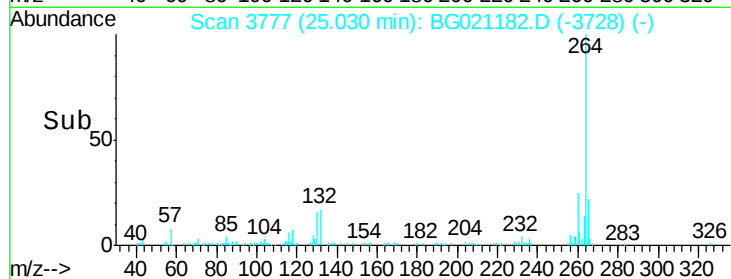
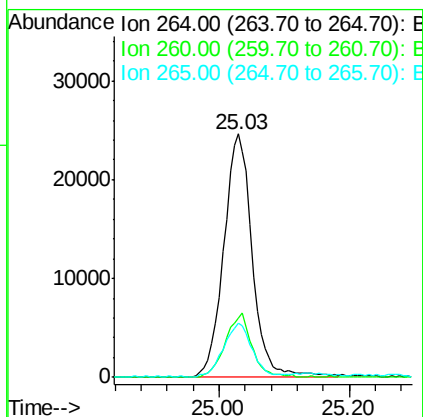
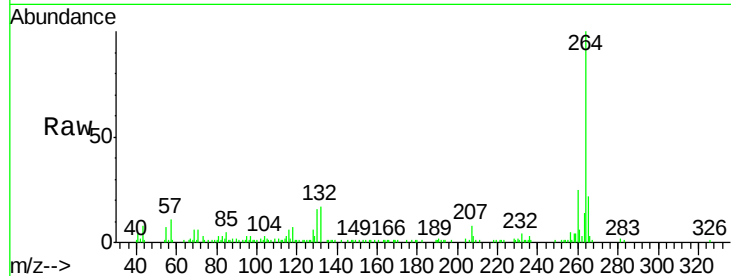




#86
Perylene-d12
Concen: 20.00 ng
RT: 25.03 min Scan# 3777
Delta R.T. -0.01 min
Lab File: BG021182.D
Acq: 1 Mar 2016 10:46

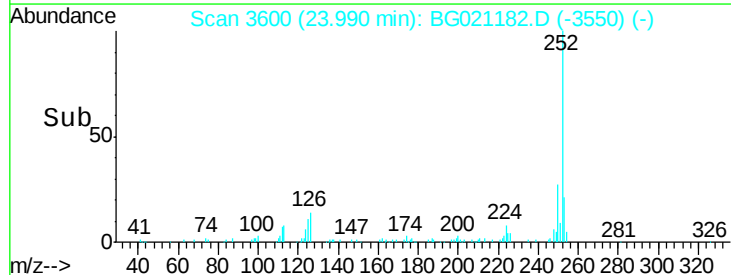
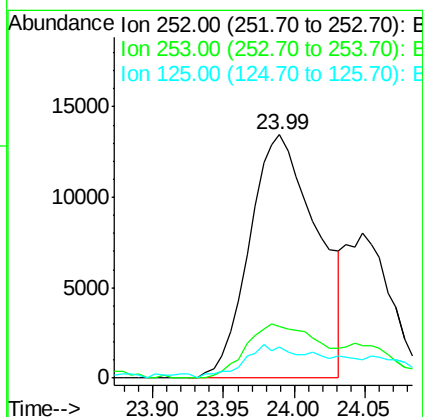
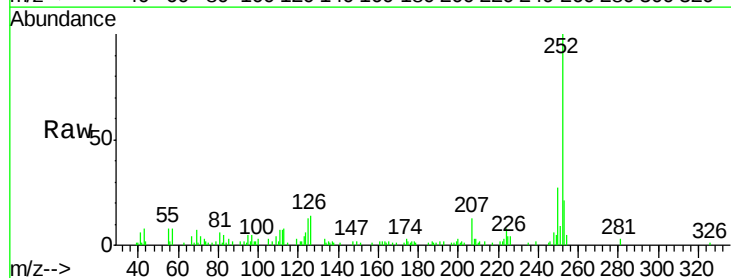
Instrument :
BNA_G
ClientSampleId :
40050+15(0-2)RE

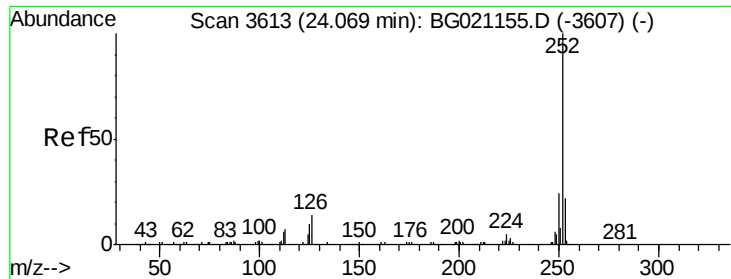
Tgt Ion:264 Resp: 74692
Ion Ratio Lower Upper
264 100
260 24.6 18.5 27.7
265 22.2 18.6 28.0



#87
Benzo(b)fluoranthene
Concen: 9.57 ng
RT: 23.99 min Scan# 3600
Delta R.T. -0.01 min
Lab File: BG021182.D
Acq: 1 Mar 2016 10:46

Tgt Ion:252 Resp: 44955
Ion Ratio Lower Upper
252 100
253 21.3 16.8 25.2
125 12.7 8.2 12.2#

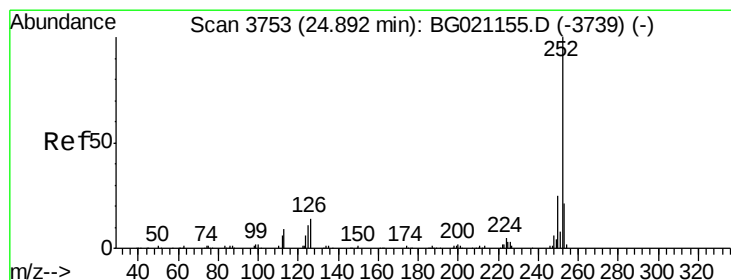
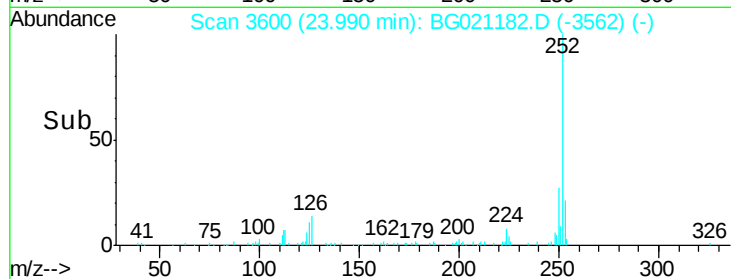
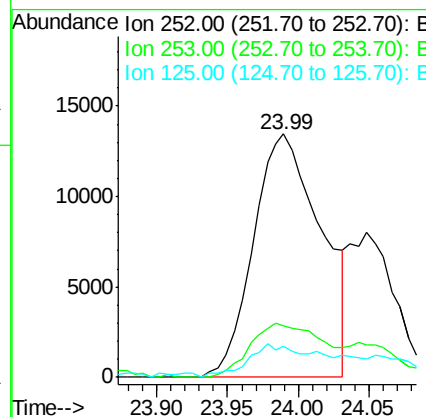
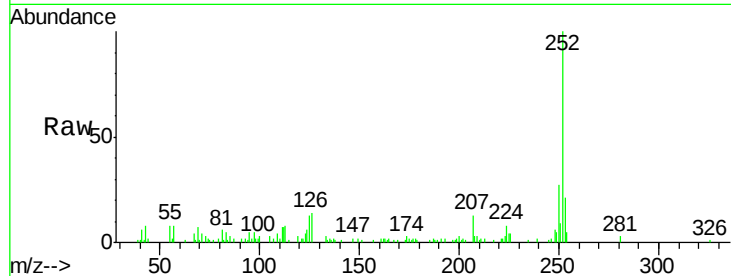




#88
Benzo(k)fluoranthene
Concen: 9.55 ng
RT: 23.99 min Scan# 3600
Delta R.T. -0.08 min
Lab File: BG021182.D
Acq: 1 Mar 2016 10:46

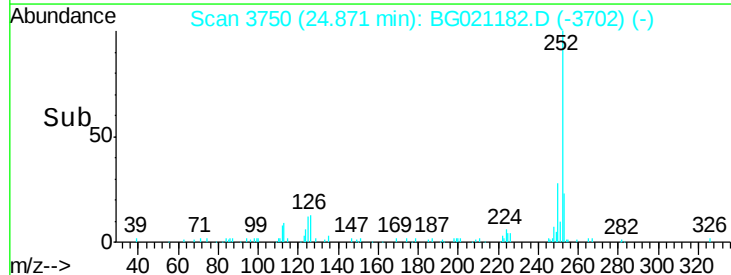
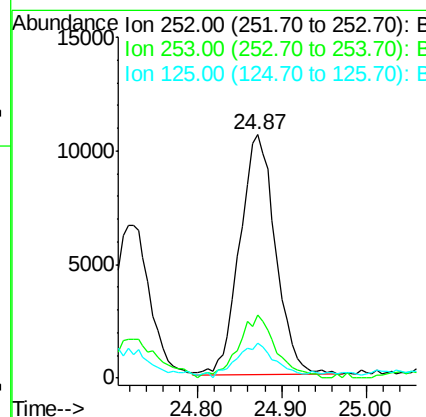
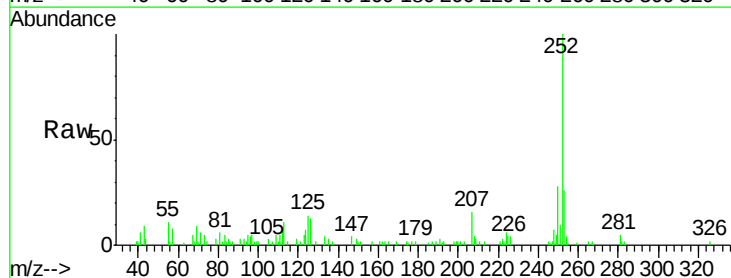
Instrument :
BNA_G
ClientSampleId :
40050+15(0-2)RE

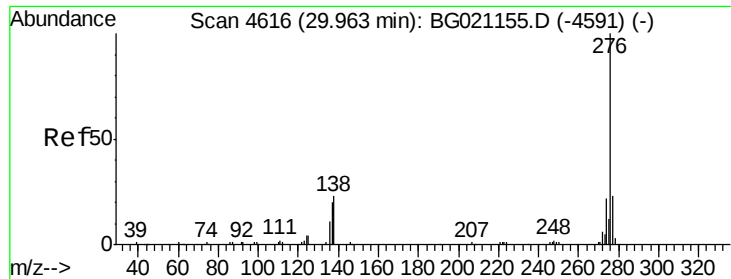
Tgt Ion:252 Resp: 44955
Ion Ratio Lower Upper
252 100
253 21.3 16.4 24.6
125 12.7 8.2 12.2#



#89
Benzo(a)pyrene
Concen: 6.83 ng
RT: 24.87 min Scan# 3750
Delta R.T. -0.02 min
Lab File: BG021182.D
Acq: 1 Mar 2016 10:46

Tgt Ion:252 Resp: 31021
Ion Ratio Lower Upper
252 100
253 25.7 15.8 23.8#
125 14.3 8.4 12.6#





#91

Benzo(g,h,i)perylene

Concen: 3.02 ng

RT: 29.92 min Scan# 4609

Delta R.T. -0.04 min

Lab File: BG021182.D

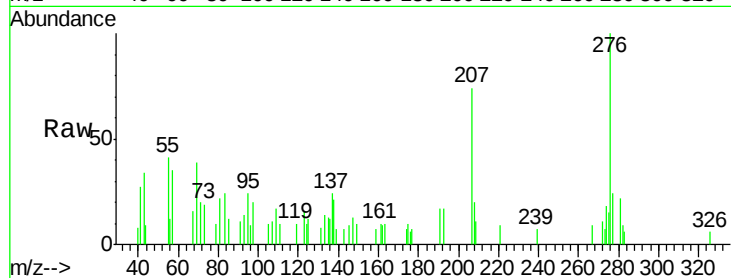
Acq: 1 Mar 2016 10:46

Instrument :

BNA_G

ClientSampleId :

40050+15(0-2)RE



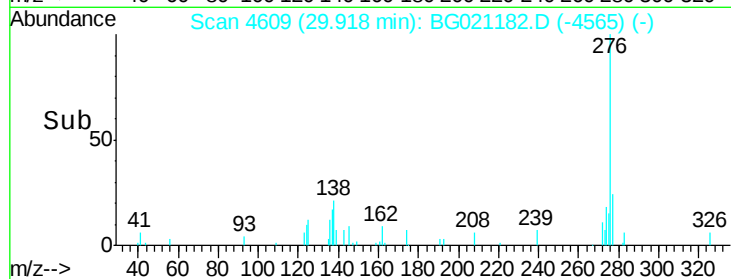
Tgt Ion:276 Resp: 13112

Ion Ratio Lower Upper

276 100

277 24.2 16.6 25.0

138 21.1 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

