

Data Path : U:\HPCHEM1\BNA G\DATA\BG042116\
 Data File : BG021792.D
 Acq On : 20 Apr 2016 19:43
 Operator : UM/SJ
 Sample : H2413-03
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Apr 21 01:08:33 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 13 15:48:13 2016
 Response via : Initial Calibration

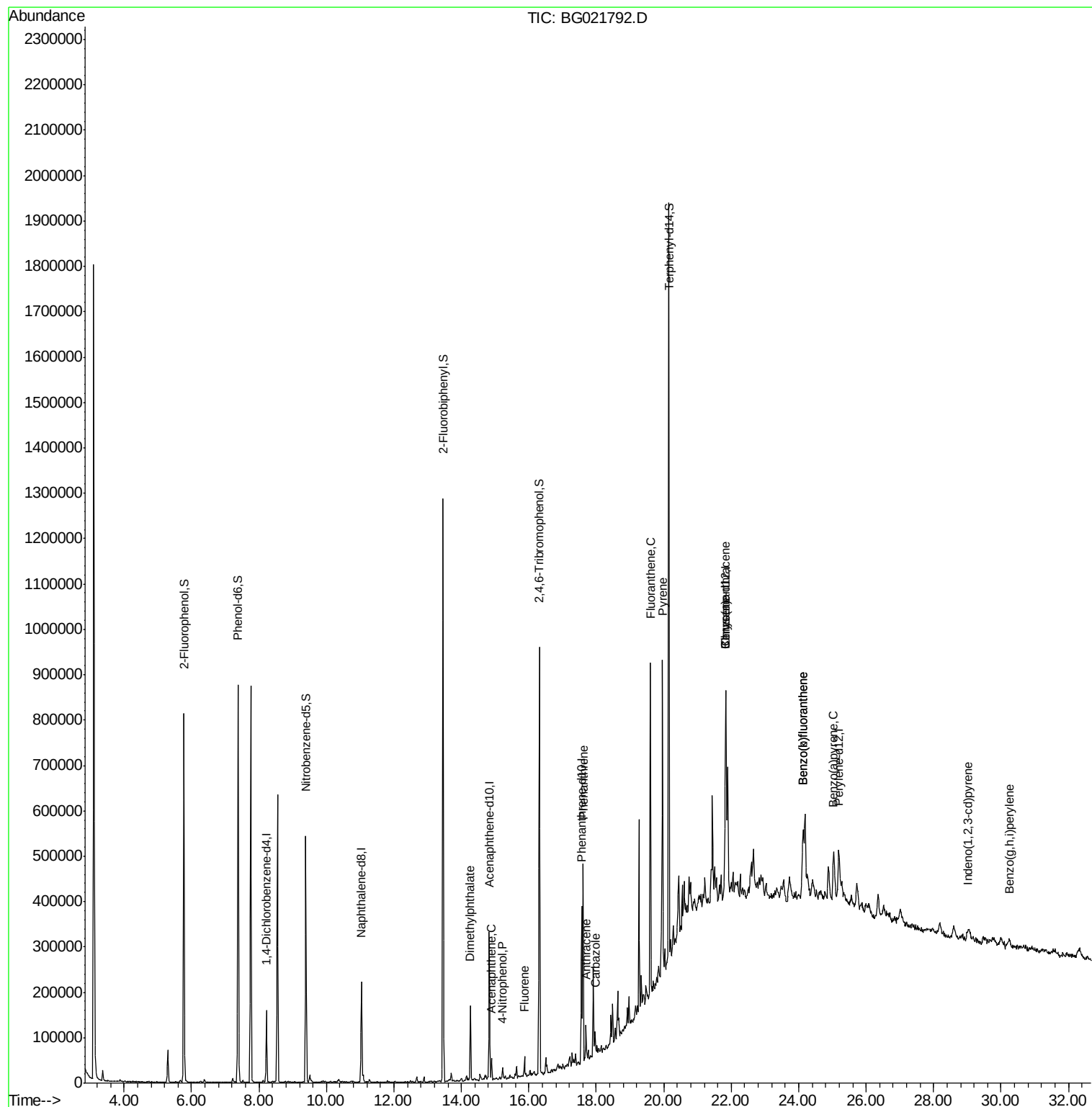
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.22	152	45231	20.00	ng	0.00
21) Naphthalene-d8	11.04	136	193596	20.00	ng	0.00
38) Acenaphthene-d10	14.83	164	105702	20.00	ng	0.00
63) Phenanthrene-d10	17.57	188	218893	20.00	ng	0.00
75) Chrysene-d12	21.84	240	234963	20.00	ng	0.00
86) Perylene-d12	25.19	264	132129	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.78	112	381898	140.60	ng	0.02
7) Phenol-d6	7.38	99	546198	134.62	ng	0.02
23) Nitrobenzene-d5	9.39	82	345658	91.77	ng	0.00
41) 2,4,6-Tribromophenol	16.31	330	175617	154.16	ng	0.00
44) 2-Fluorobiphenyl	13.45	172	669201	92.76	ng	0.00
78) Terphenyl-d14	20.15	244	747085	79.34	ng	0.00
Target Compounds						Qvalue
49) Dimethylphthalate	14.27	163	108179	11.84	ng	# 99
51) Acenaphthene	14.89	154	17194	2.47	ng	98
55) 4-Nitrophenol	15.22	139	5053	3.05	ng	# 14
57) Fluorene	15.87	166	21503	2.53	ng	94
70) Phenanthrene	17.61	178	263210	21.82	ng	99
71) Anthracene	17.70	178	53199	4.34	ng	96
72) Carbazole	17.97	167	30591	2.68	ng	98
74) Fluoranthene	19.61	202	482166	33.47	ng	98
77) Pyrene	19.96	202	452665	33.41	ng	99
80) Benzo(a)anthracene	21.83	228	224714	16.62	ng	97
82) Chrysene	21.83	228	224714	17.30	ng	95
85) Indeno(1,2,3-cd)pyrene	29.03	276	51603	3.34	ng	# 86
87) Benzo(b)fluoranthene	24.13	252	222841	29.07	ng	# 94
88) Benzo(k)fluoranthene	24.13	252	222841	29.72	ng	# 94
89) Benzo(a)pyrene	25.04	252	139172	18.74	ng	# 87
91) Benzo(g,h,i)perylene	30.25	276	50167	6.86	ng	95

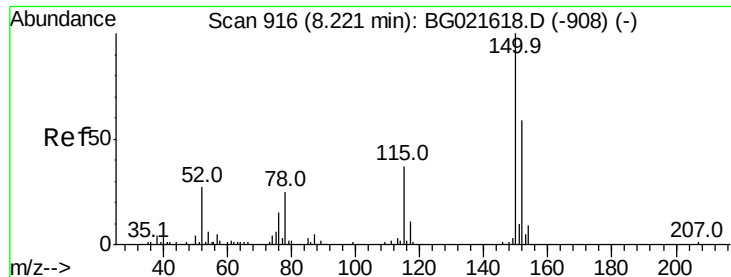
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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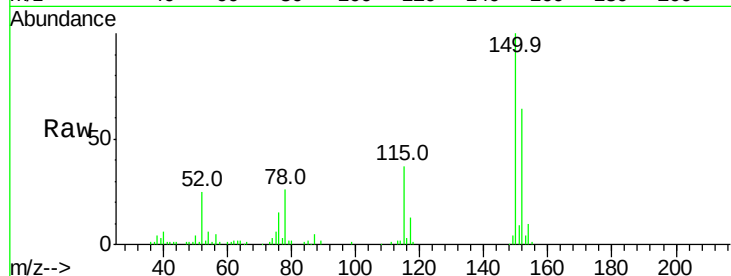


#1

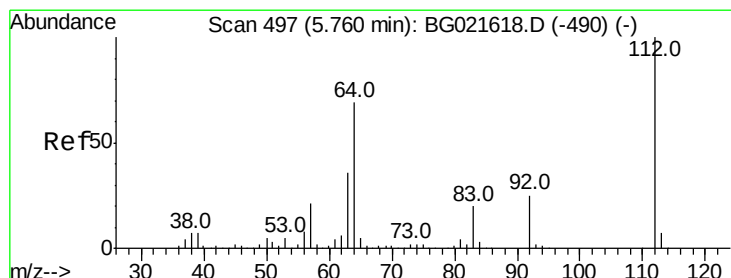
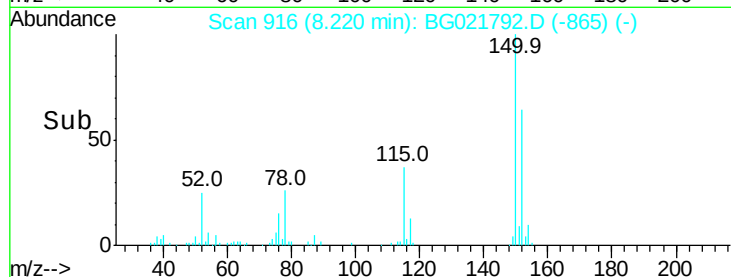
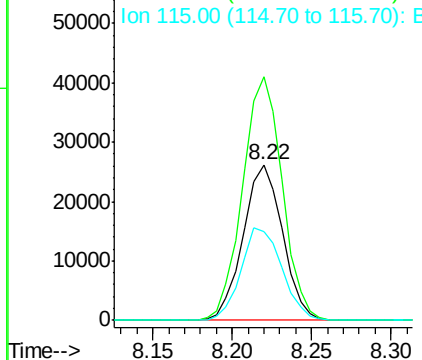
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.22 min Scan# 916
Delta R.T. -0.00 min
Lab File: BG021792.D
Acq: 20 Apr 2016 19:43

Instrument :
BNA_G
ClientSampleId :

Tot Ion:152 Resp: 45231
Ion Ratio Lower Upper
152 100
150 156.3 130.1 195.1
115 57.3 62.2 93.2#



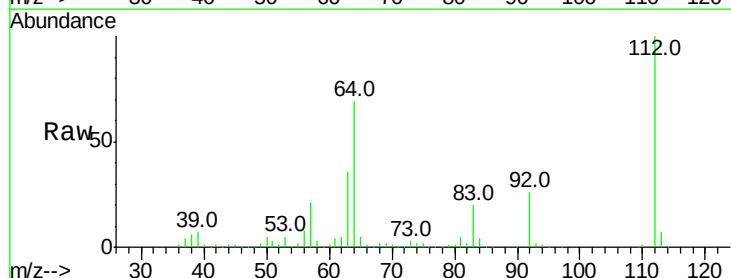
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



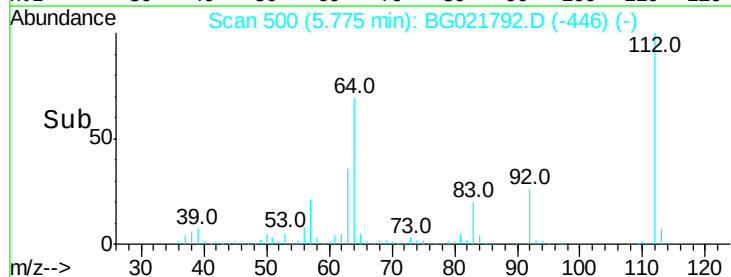
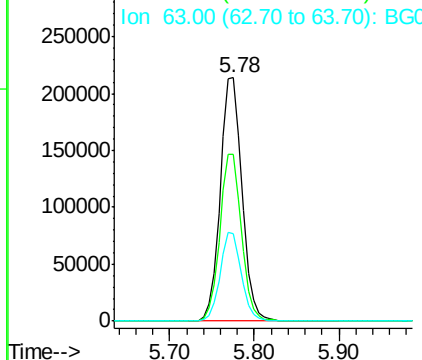
#5

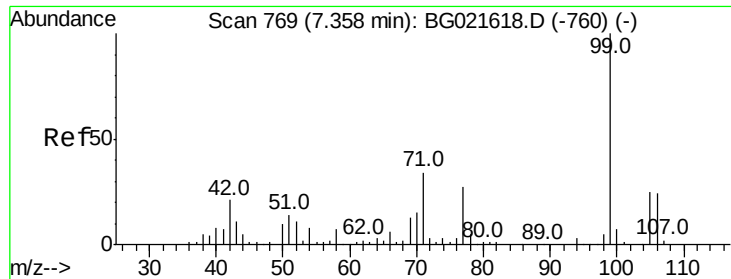
2-Fluorophenol
Concen: 140.60 ng
RT: 5.78 min Scan# 500
Delta R.T. 0.02 min
Lab File: BG021792.D
Acq: 20 Apr 2016 19:43

Tgt Ion:112 Resp: 381898
Ion Ratio Lower Upper
112 100
64 68.8 51.1 76.7
63 35.7 24.6 37.0



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: 134.62 ng

RT: 7.38 min Scan# 773

Delta R.T. 0.02 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

Instrument :

BNA_G

ClientSampleId :

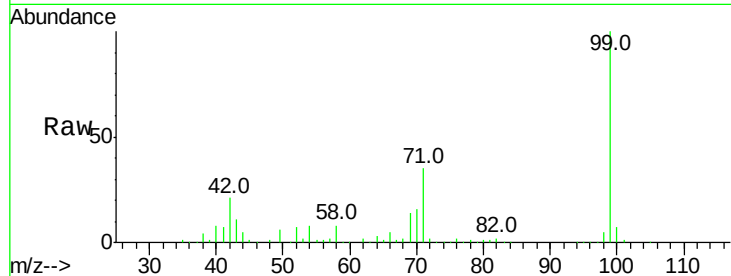
Tot Ion: 99 Resp: 546198

Ion Ratio Lower Upper

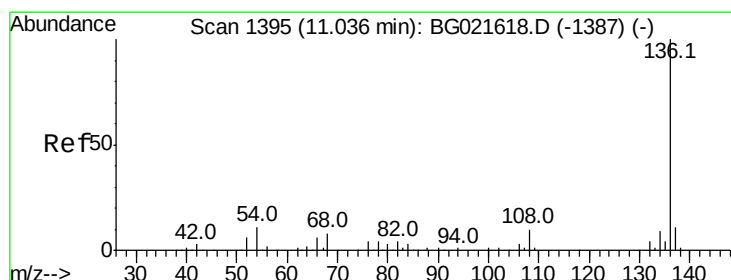
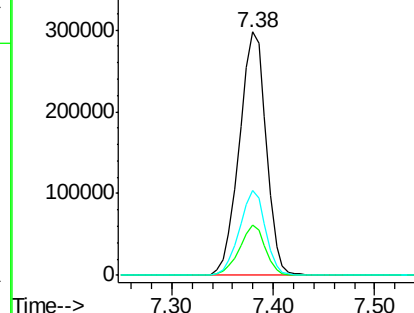
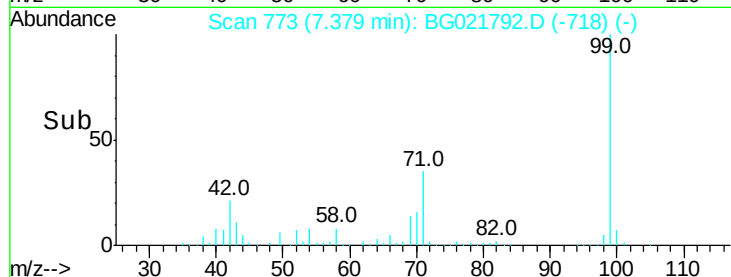
99 100

42 20.5 16.4 24.6

71 34.6 25.0 37.4



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: 11.04 min Scan# 1396

Delta R.T. 0.00 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

Tgt Ion: 136 Resp: 193596

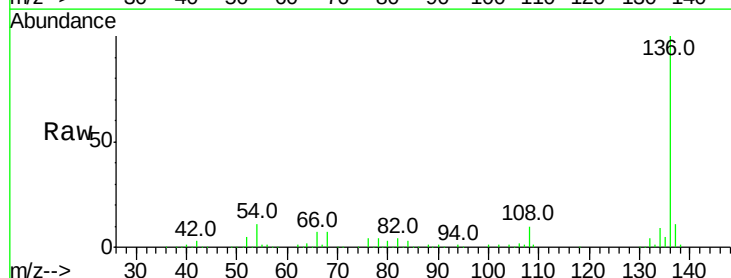
Ion Ratio Lower Upper

136 100

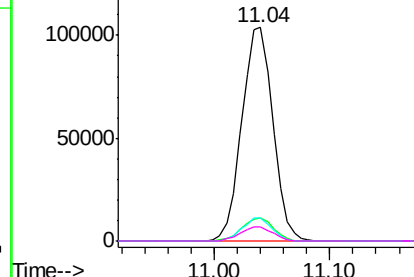
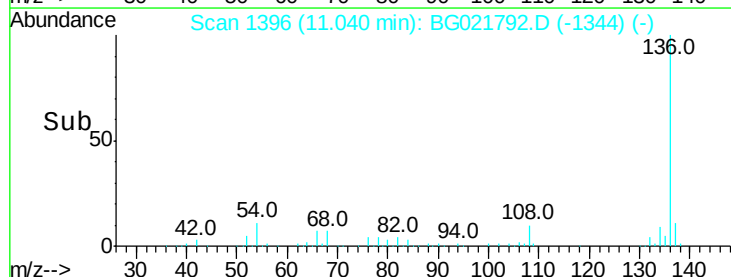
137 10.9 9.0 13.4

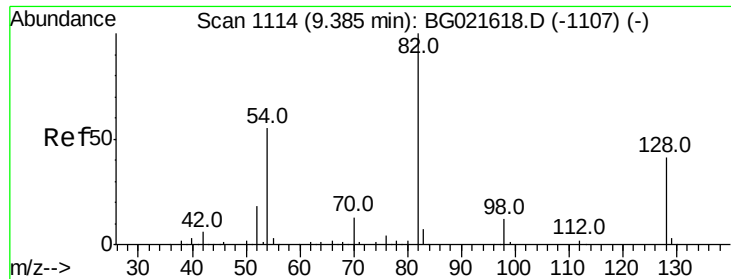
54 10.5 9.6 14.4

68 6.9 6.4 9.6



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

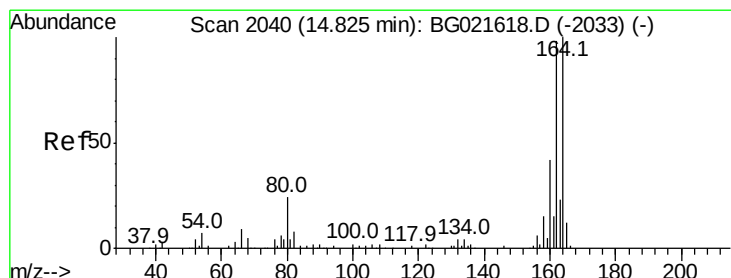
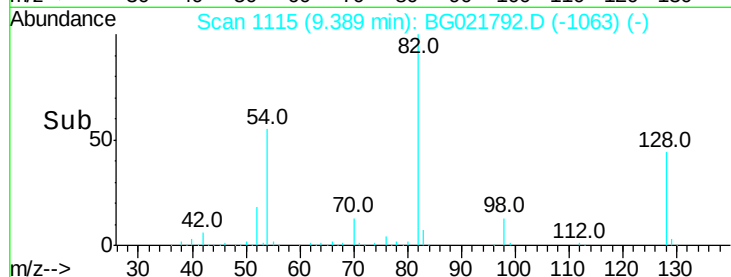
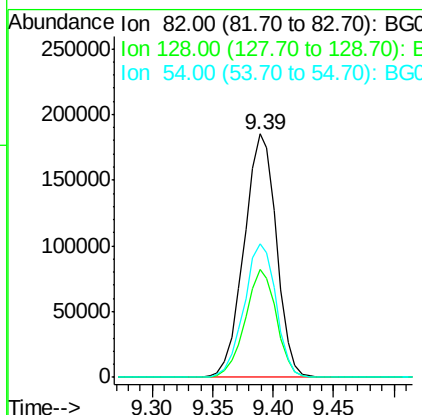
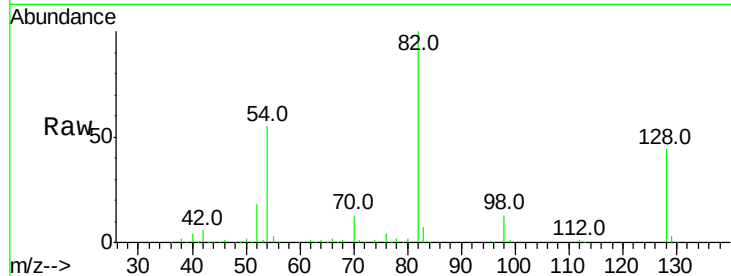




#23
 Nitrobenzene-d5
 Concen: 91.77 ng
 RT: 9.39 min Scan# 1115
 Delta R.T. 0.00 min
 Lab File: BG021792.D
 Acq: 20 Apr 2016 19:43

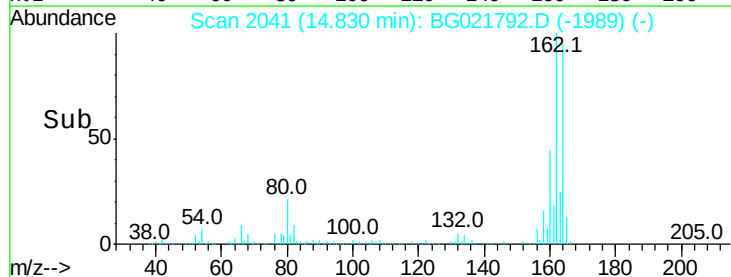
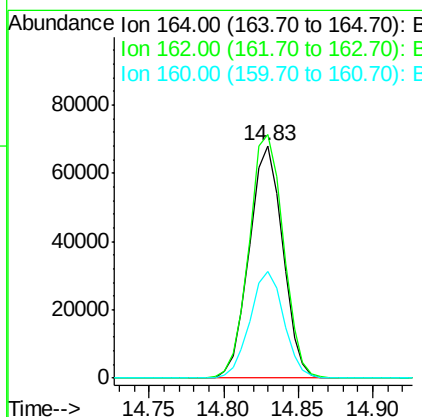
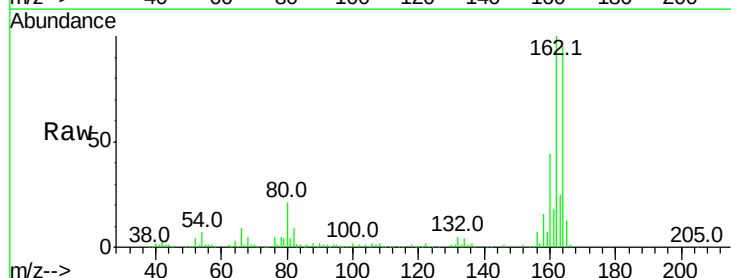
Instrument :
 BNA_G
 ClientSampleID :

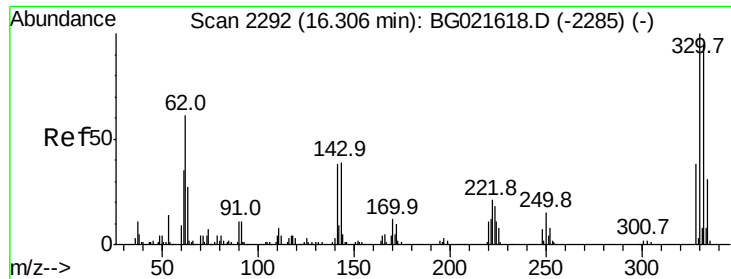
Tot Ion	82	Resp	345658
Ion Ratio	100	Lower	Upper
128	44.3	33.4	50.0
54	54.9	46.1	69.1



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.83 min Scan# 2041
 Delta R.T. 0.00 min
 Lab File: BG021792.D
 Acq: 20 Apr 2016 19:43

Tgt Ion	164	Resp	105702
Ion Ratio	100	Lower	Upper
162	104.7	78.0	117.0
160	45.8	32.9	49.3





#41

2,4,6-Tribromophenol

Concen: 154.16 ng

RT: 16.31 min Scan# 2293

Delta R.T. 0.00 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

Instrument :

BNA_G

ClientSampled :

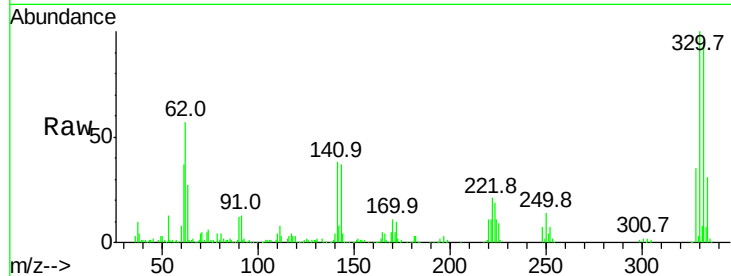
Tot Ion:330 Resp: 175617

Ion Ratio Lower Upper

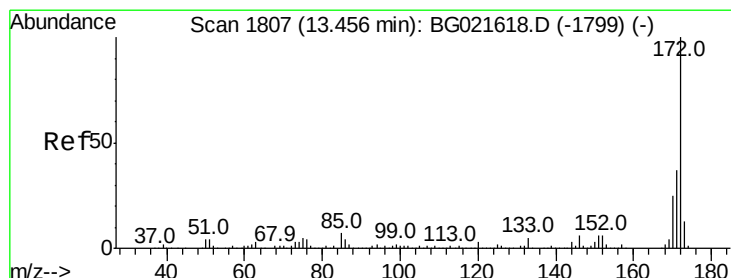
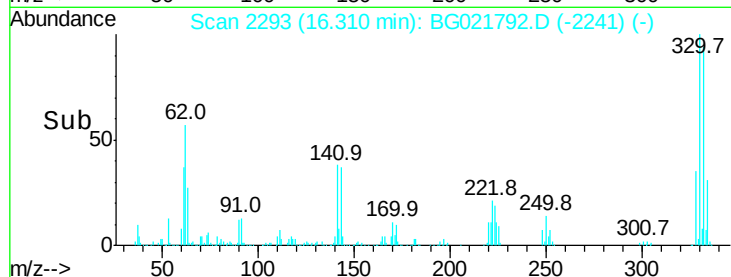
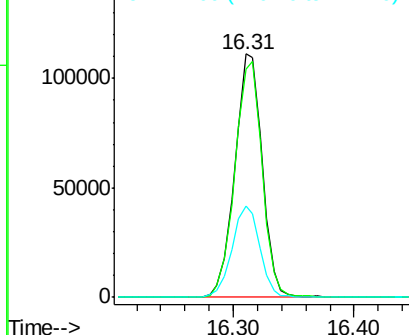
330 100

332 96.8 78.0 117.0

141 37.5 33.8 50.8



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: 92.76 ng

RT: 13.45 min Scan# 1807

Delta R.T. -0.00 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

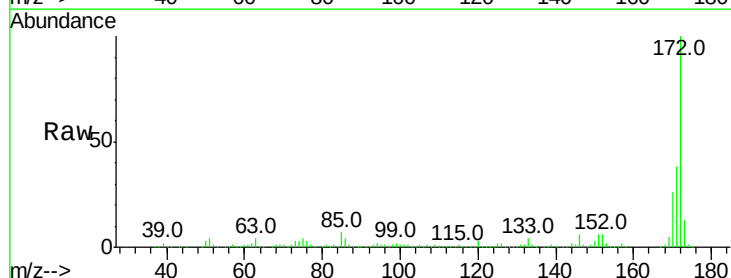
Tgt Ion:172 Resp: 669201

Ion Ratio Lower Upper

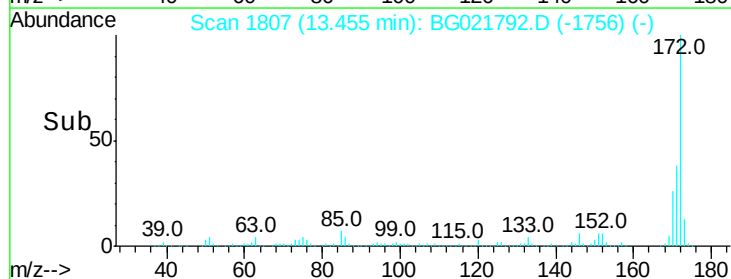
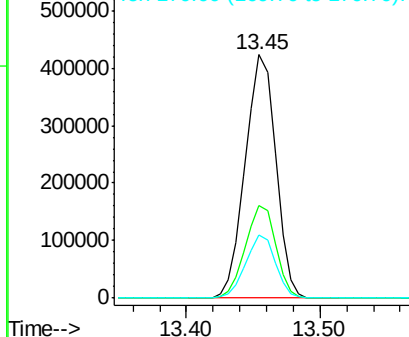
172 100

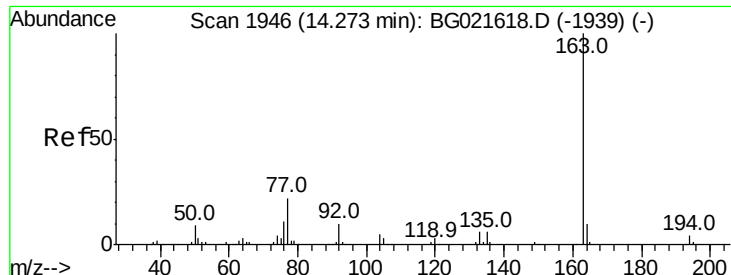
171 38.1 27.8 41.6

170 25.7 19.6 29.4



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: 11.84 ng

RT: 14.27 min Scan# 1945

Delta R.T. -0.01 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

Instrument :

BNA_G

ClientSampleId :

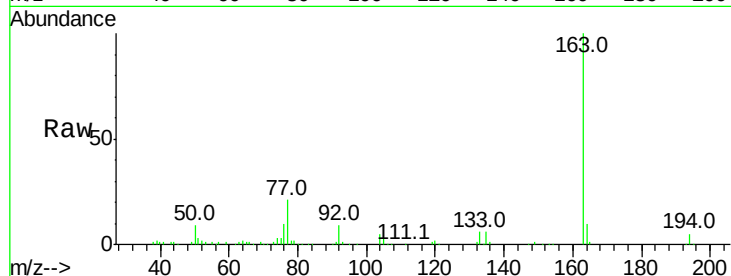
Tot Ion:163 Resp: 108179

Ion Ratio Lower Upper

163 100

194 4.7 3.0 4.6#

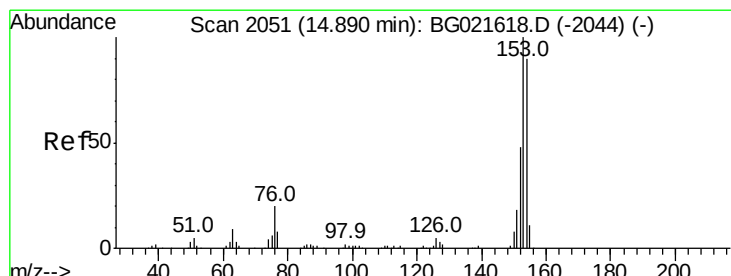
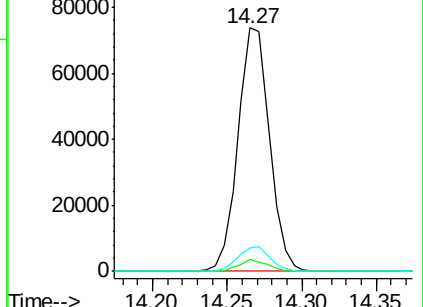
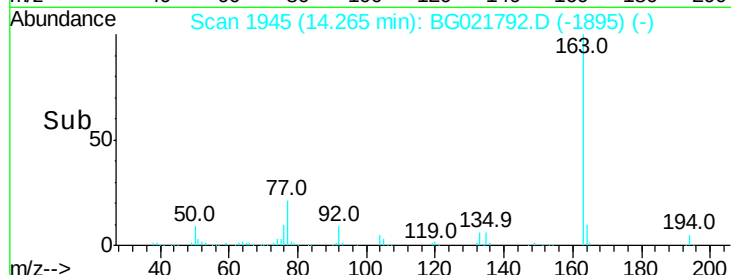
164 9.8 8.1 12.1



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: 2.47 ng

RT: 14.89 min Scan# 2052

Delta R.T. 0.00 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

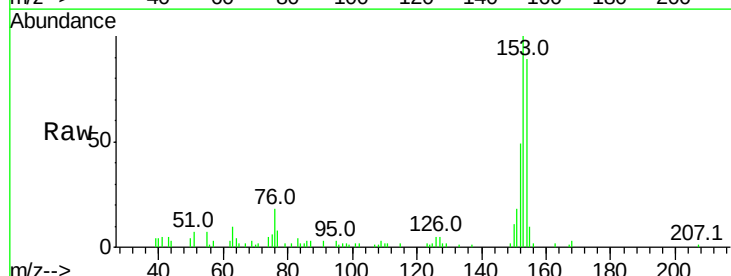
Tgt Ion:154 Resp: 17194

Ion Ratio Lower Upper

154 100

153 112.6 91.9 137.9

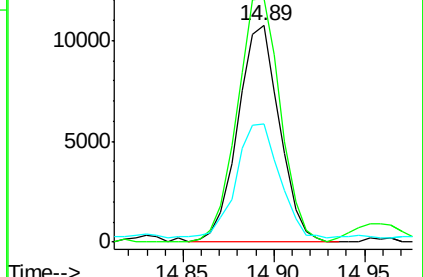
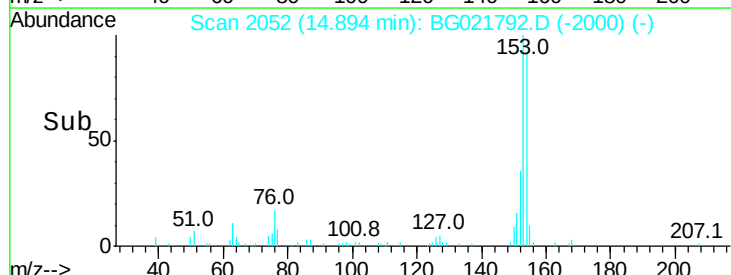
152 54.6 42.0 63.0

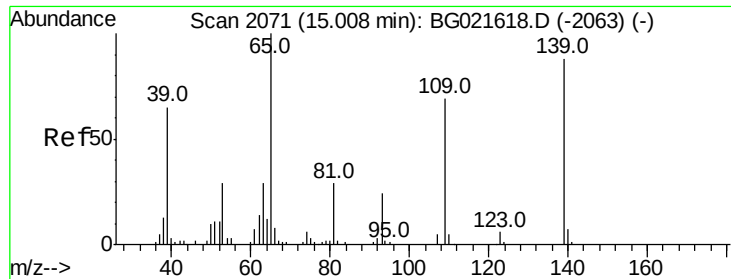


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

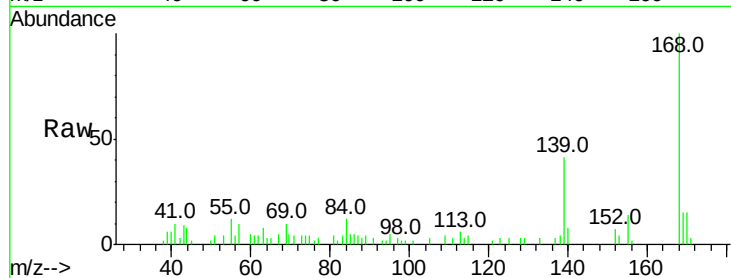




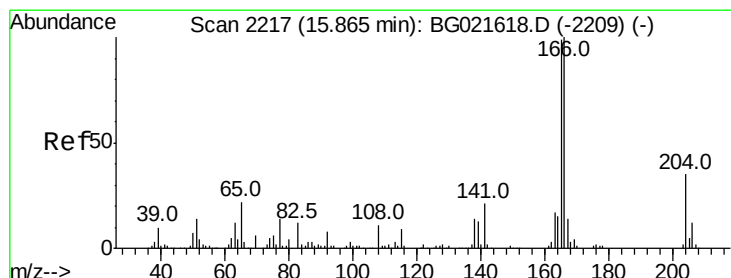
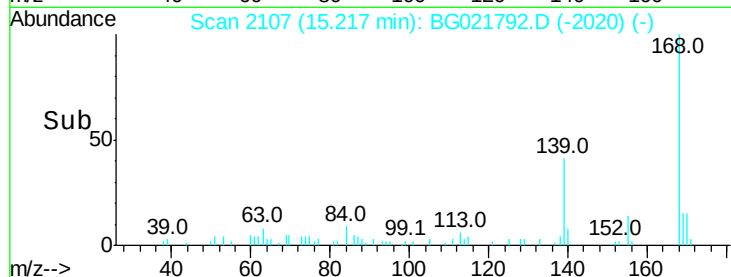
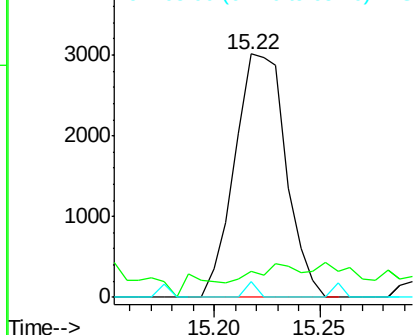
#55
4-Nitrophenol
Concen: 3.05 ng
RT: 15.22 min Scan# 2107
Delta R.T. 0.21 min
Lab File: BG021792.D
Acq: 20 Apr 2016 19:43

Instrument :
BNA_G
ClientSampleId :

Tot Ion:139 Resp: 5053
Ion Ratio Lower Upper
139 100
109 10.6 49.2 89.2#
65 6.2 83.2 123.2#

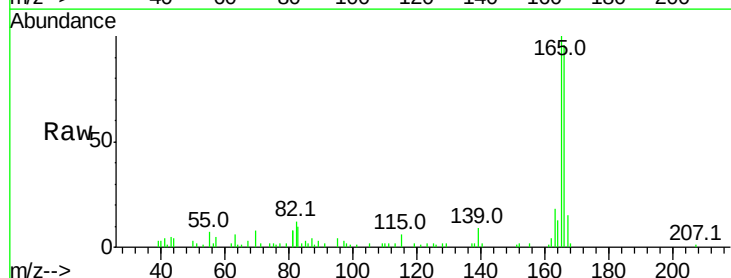


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): B

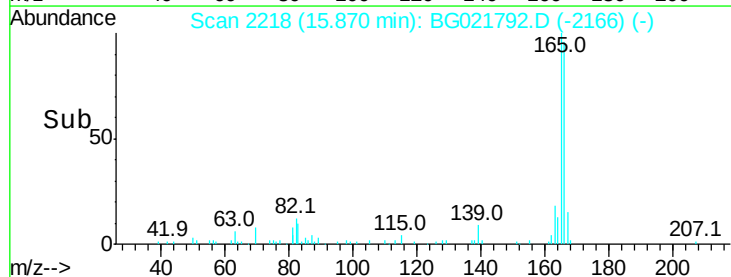
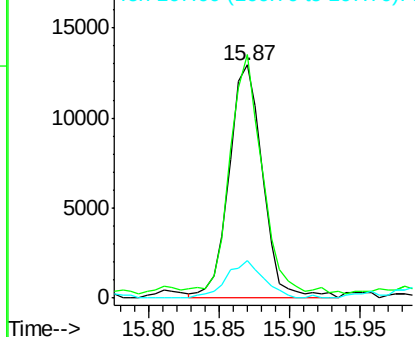


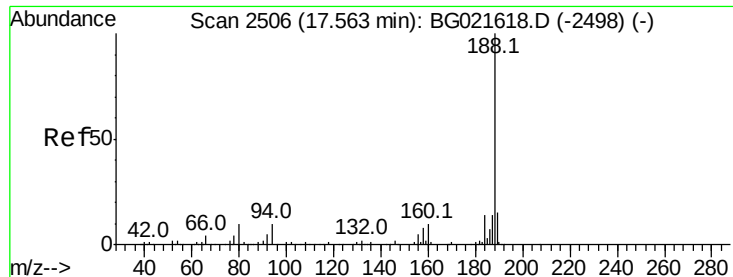
#57
Fluorene
Concen: 2.53 ng
RT: 15.87 min Scan# 2218
Delta R.T. 0.00 min
Lab File: BG021792.D
Acq: 20 Apr 2016 19:43

Tgt Ion:166 Resp: 21503
Ion Ratio Lower Upper
166 100
165 104.3 79.0 118.4
167 15.8 10.7 16.1



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

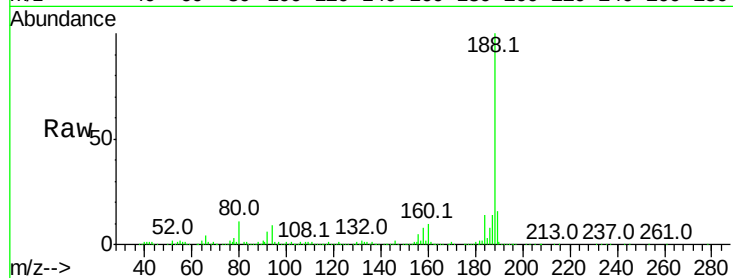




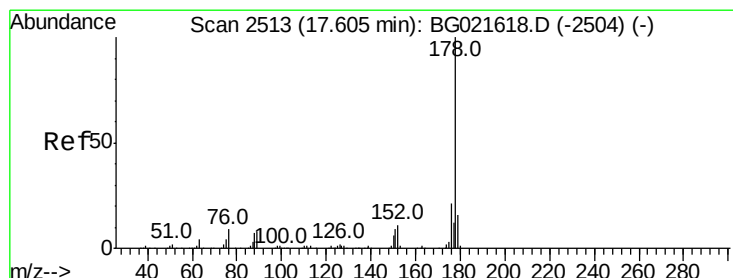
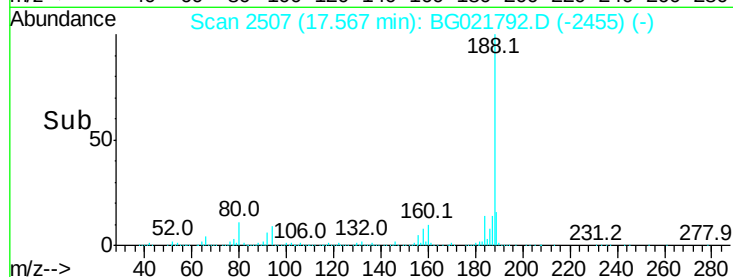
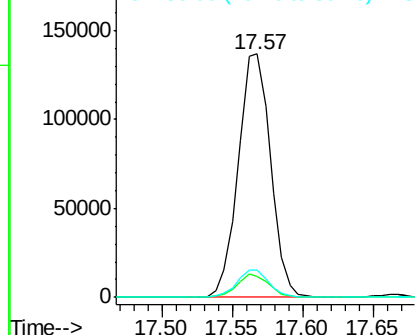
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.57 min Scan# 2507
Delta R.T. 0.00 min
Lab File: BG021792.D
Acq: 20 Apr 2016 19:43

Instrument :
BNA_G
ClientSampleId :

Tot Ion:188 Resp: 218893
Ion Ratio Lower Upper
188 100
94 8.8 7.5 11.3
80 11.2 8.6 13.0

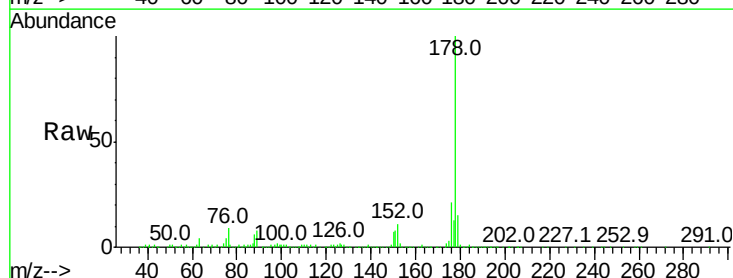


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BGC
Ion 80.00 (79.70 to 80.70): BGC

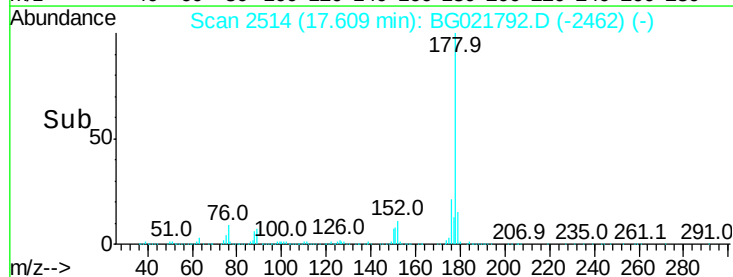
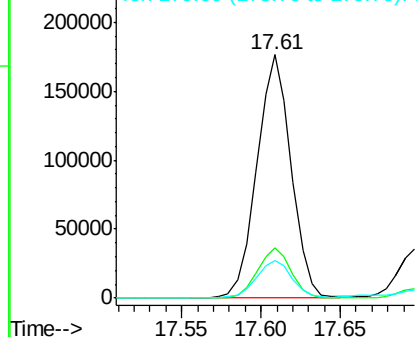


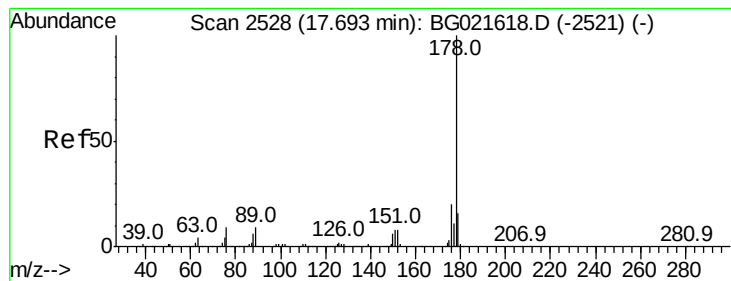
#70
Phenanthrene
Concen: 21.82 ng
RT: 17.61 min Scan# 2514
Delta R.T. 0.00 min
Lab File: BG021792.D
Acq: 20 Apr 2016 19:43

Tgt Ion:178 Resp: 263210
Ion Ratio Lower Upper
178 100
176 20.6 16.2 24.4
179 15.3 12.0 18.0



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





#71

Anthracene

Concen: 4.34 ng

RT: 17.70 min Scan# 2529

Delta R.T. 0.00 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

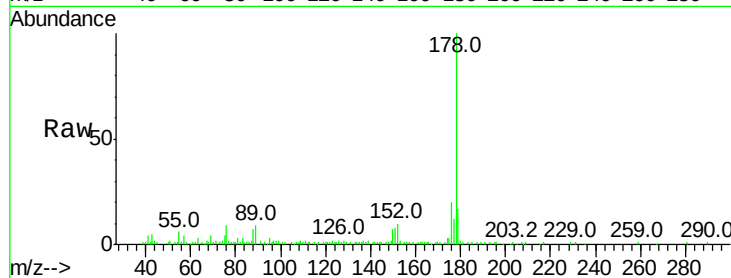
Instrument :

BNA_G

ClientSampleId :

Tot Ion:178 Resp: 53199

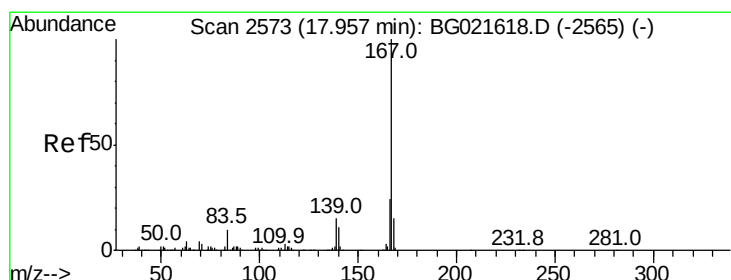
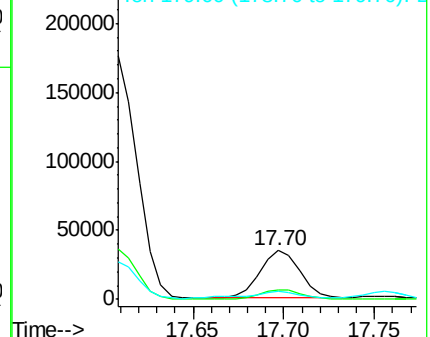
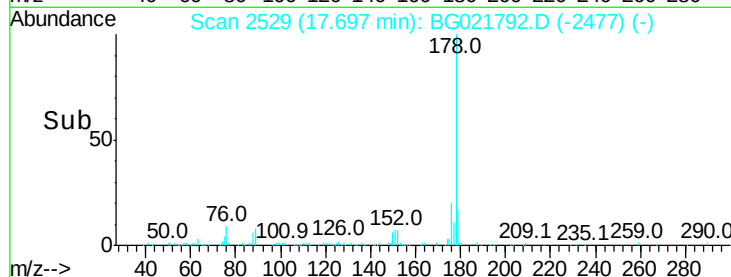
Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.0	22.4
179	17.4	12.2	18.4



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: 2.68 ng

RT: 17.97 min Scan# 2575

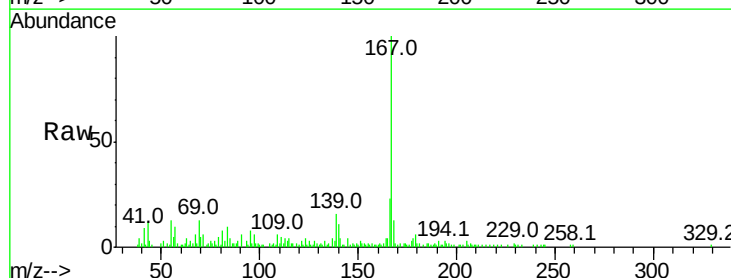
Delta R.T. 0.01 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

Tgt Ion:167 Resp: 30591

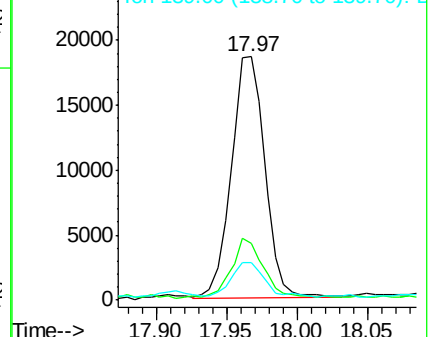
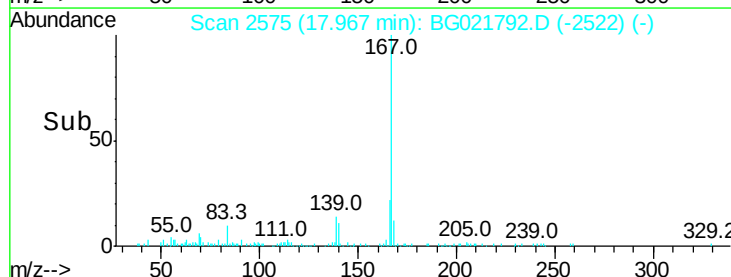
Ion	Ratio	Lower	Upper
167	100		
166	23.3	18.6	27.8
139	15.5	10.6	15.8

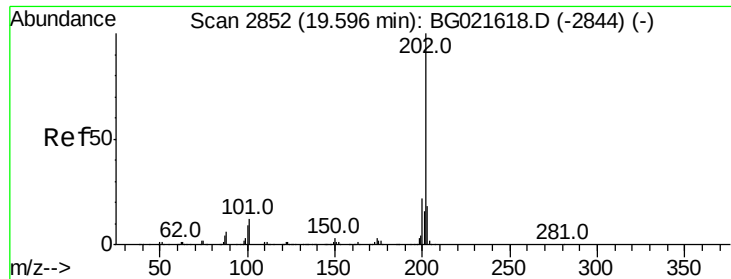


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 33.47 ng

RT: 19.61 min Scan# 2854

Delta R.T. 0.01 min

Lab File: BG021792.D

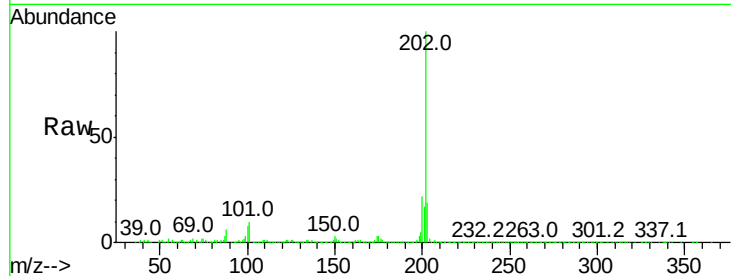
Acq: 20 Apr 2016 19:43

Instrument :

BNA_G

ClientSampleId :

Tot Ion:	202	Resp:	482166
Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	31.0
203	18.6	0.0	37.9

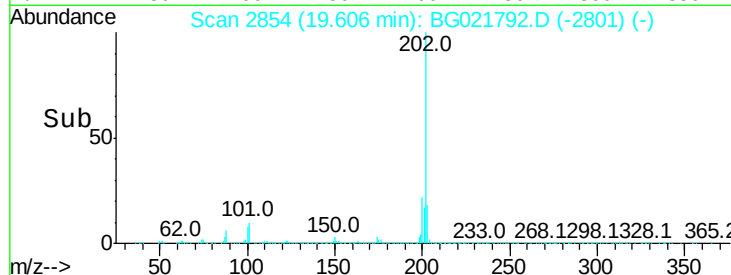


Abundance Ion 202.00 (201.70 to 202.70): E

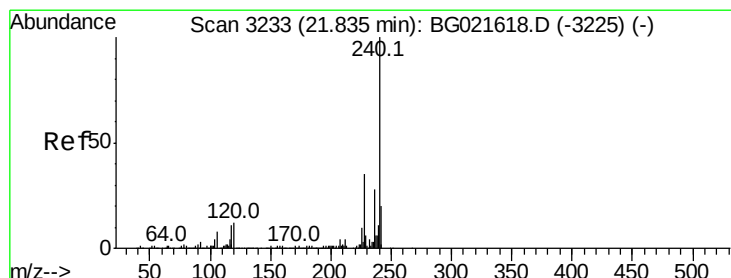
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

19.61



Time-->



#75

Chrysene-d12

Concen: 20.00 ng

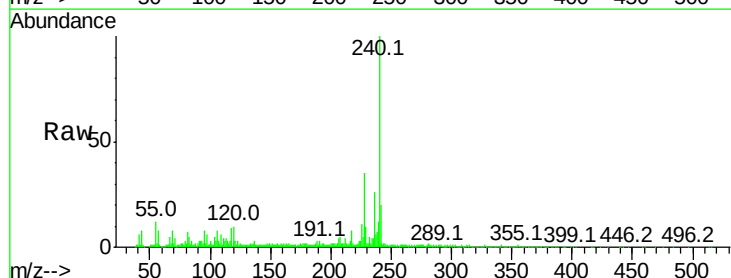
RT: 21.84 min Scan# 3235

Delta R.T. 0.01 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

Tgt Ion:	240	Resp:	234963
Ion	Ratio	Lower	Upper
240	100		
120	10.0	8.4	12.6
236	26.4	19.6	29.4

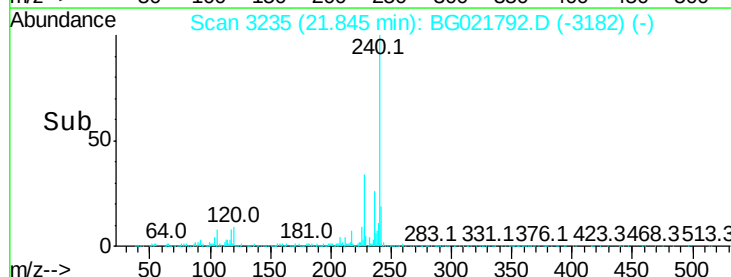


Abundance Ion 240.00 (239.70 to 240.70): E

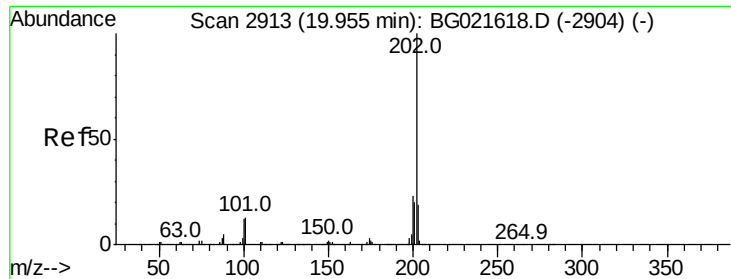
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

21.84



Time-->



#77

Pvrene

Concen: 33.41 ng

RT: 19.96 min Scan# 2915

Delta R.T. 0.01 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

Instrument :

BNA_G

ClientSampleId :

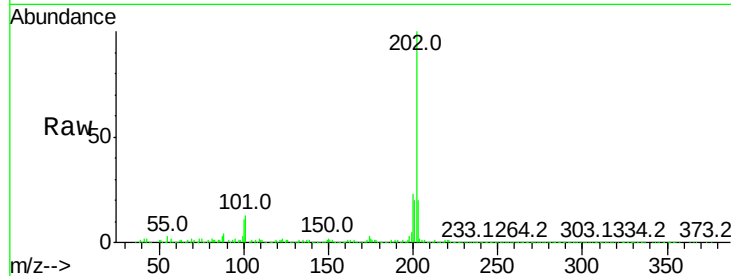
Tot Ion:202 Resp: 452665

Ion Ratio Lower Upper

202 100

200 23.1 18.2 27.2

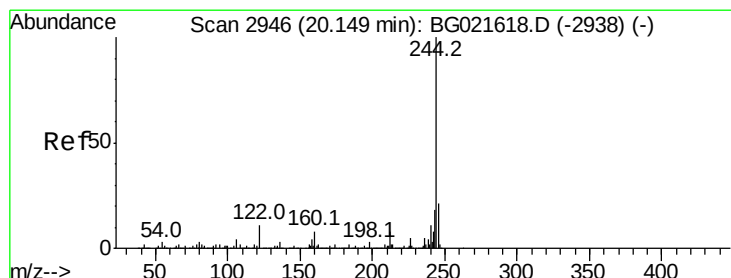
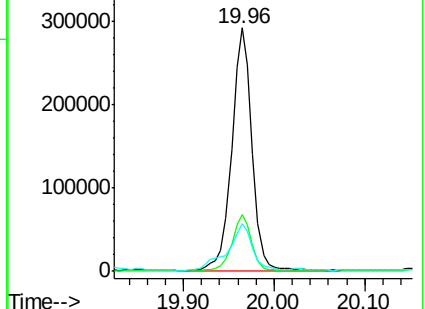
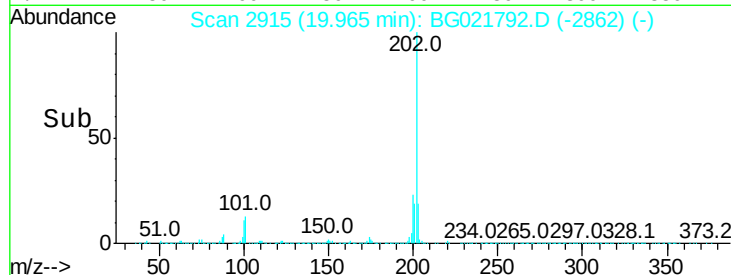
203 19.6 15.0 22.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 79.34 ng

RT: 20.15 min Scan# 2947

Delta R.T. 0.00 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

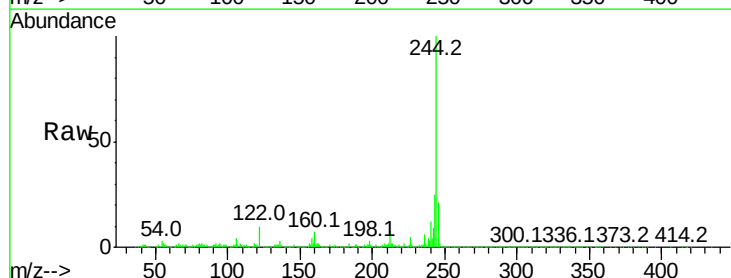
Tgt Ion:244 Resp: 747085

Ion Ratio Lower Upper

244 100

212 8.1 6.5 9.7

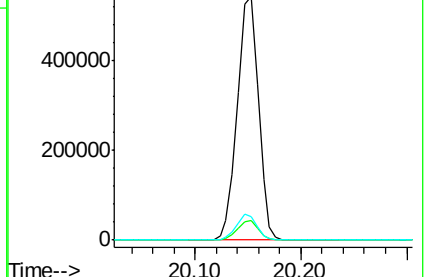
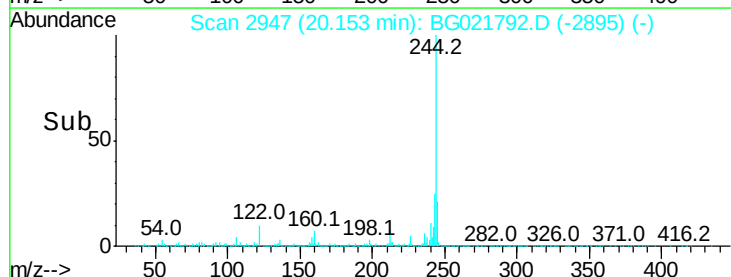
122 9.7 8.6 12.8

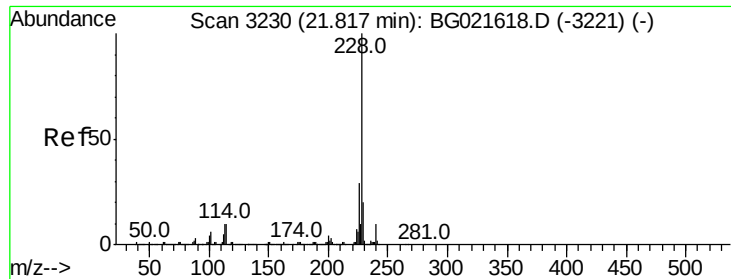


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 16.62 ng

RT: 21.83 min Scan# 3232

Delta R.T. 0.01 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

Instrument :

BNA_G

ClientSampleId :

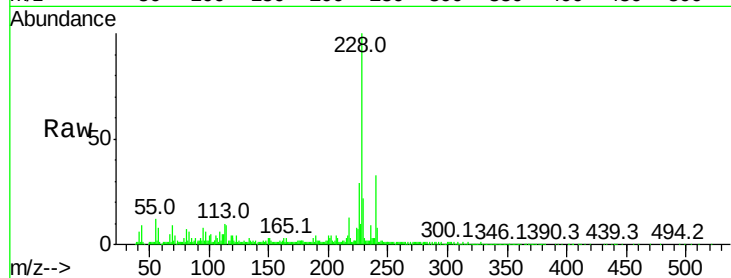
Tot Ion:228 Resp: 224714

Ion Ratio Lower Upper

228 100

226 29.4 22.6 34.0

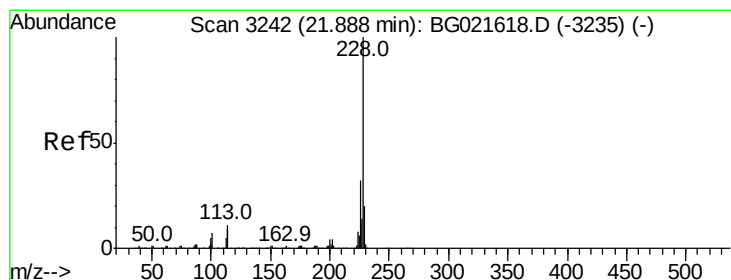
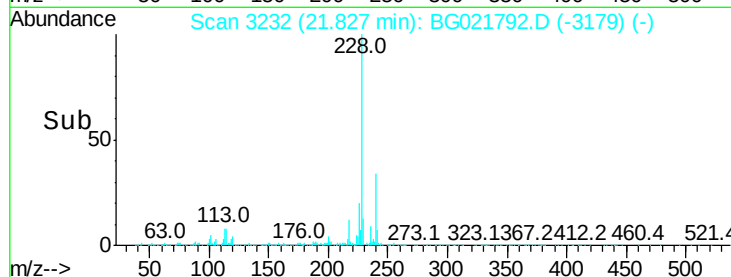
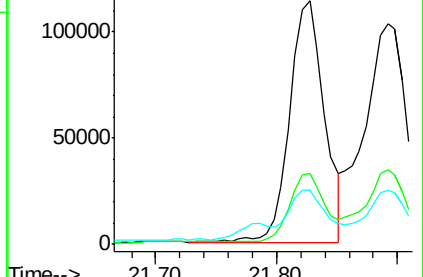
229 22.4 16.1 24.1



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



#82

Chrysene

Concen: 17.30 ng

RT: 21.83 min Scan# 3232

Delta R.T. -0.06 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

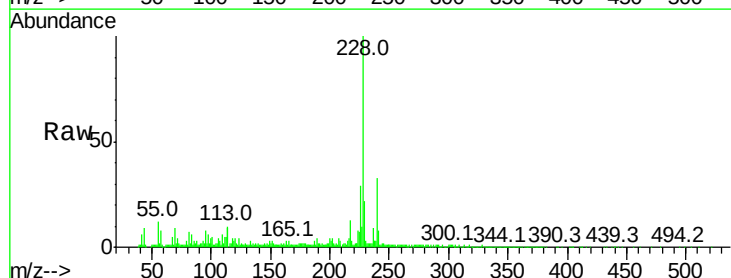
Tgt Ion:228 Resp: 224714

Ion Ratio Lower Upper

228 100

226 29.4 25.4 38.0

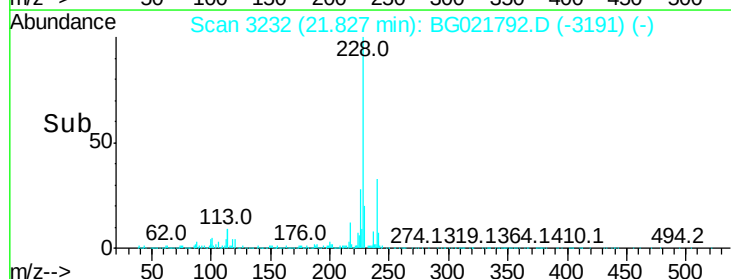
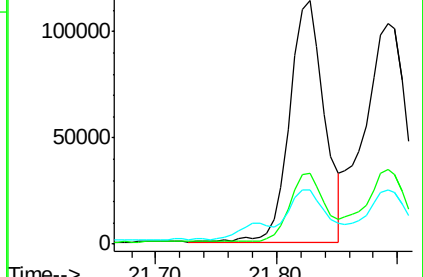
229 22.4 15.9 23.9

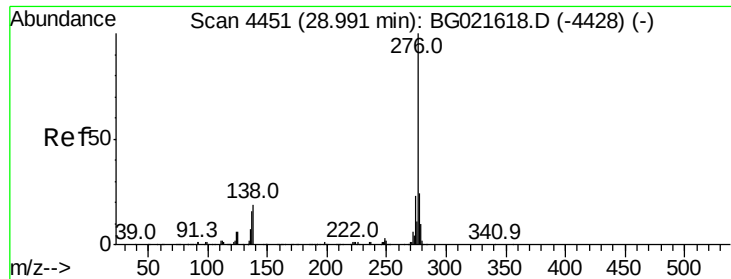


Abundance Ion 228.00 (227.70 to 228.70): E

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: 3.34 ng

RT: 29.03 min Scan# 4458

Delta R.T. 0.04 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

Instrument :

BNA_G

ClientSampleId :

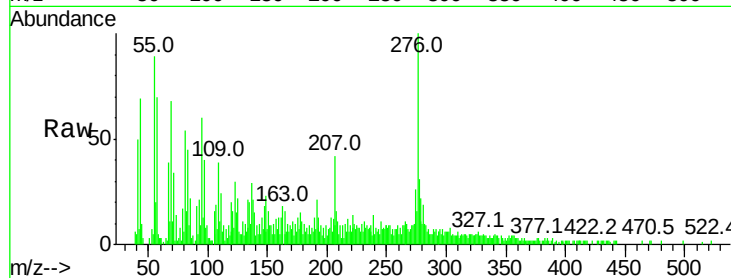
Tot Ion:276 Resp: 51603

Ion Ratio Lower Upper

276 100

138 5.2 14.0 21.0#

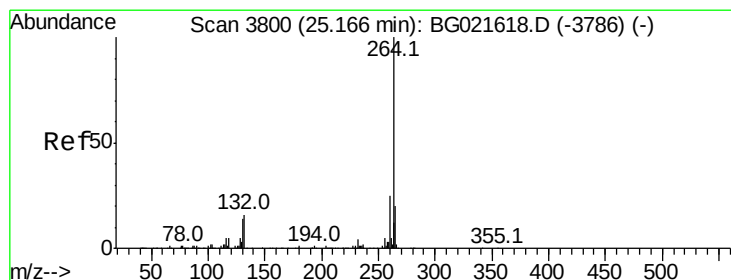
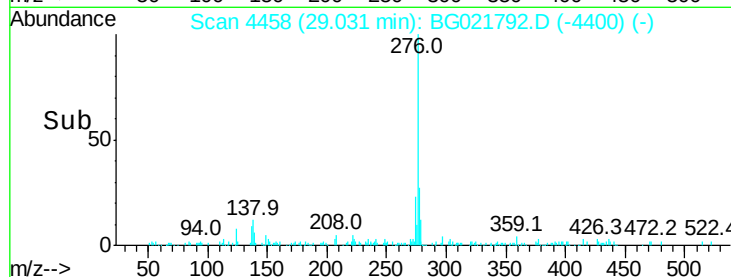
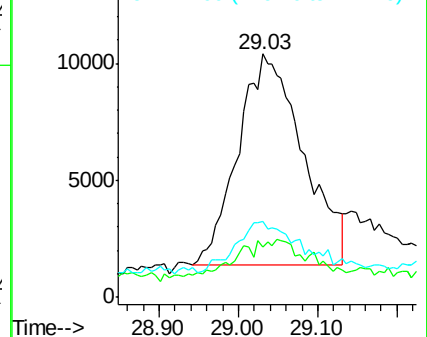
277 23.4 20.6 30.8



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: 25.19 min Scan# 3805

Delta R.T. 0.03 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

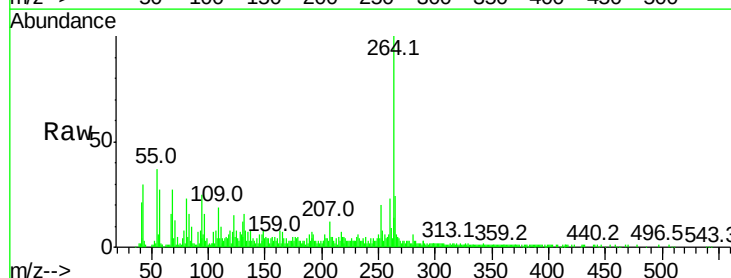
Tgt Ion:264 Resp: 132129

Ion Ratio Lower Upper

264 100

260 23.5 20.2 30.4

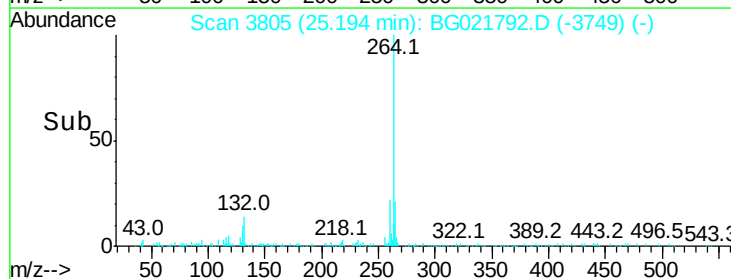
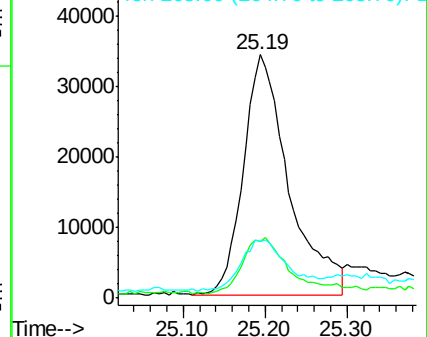
265 23.5 17.8 26.8

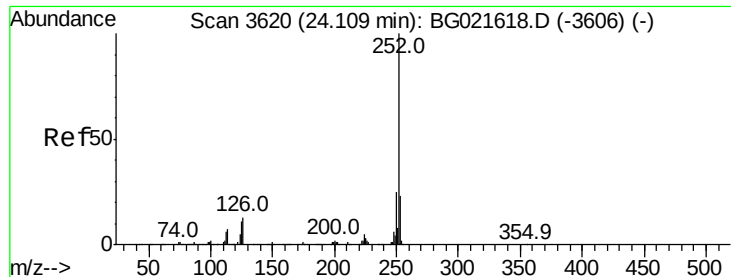


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 29.07 ng

RT: 24.13 min Scan# 3624

Delta R.T. 0.02 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

Instrument :

BNA_G

ClientSampleId :

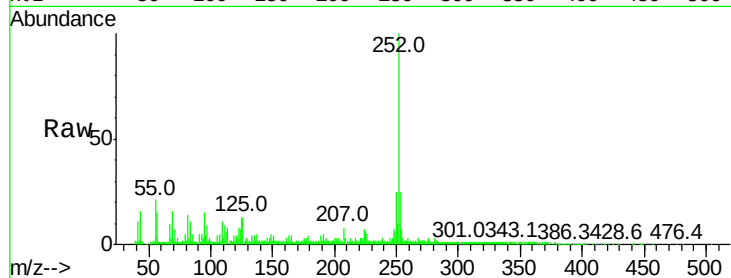
Tot Ion:252 Resp: 222841

Ion Ratio Lower Upper

252 100

253 24.9 17.5 26.3

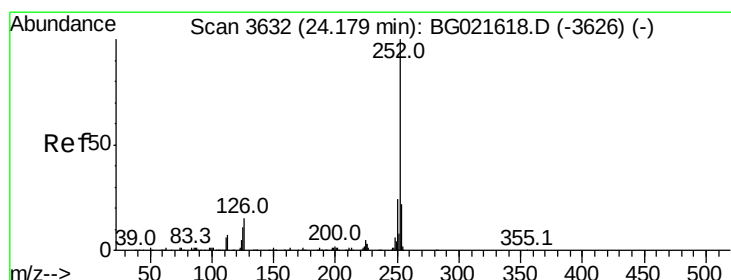
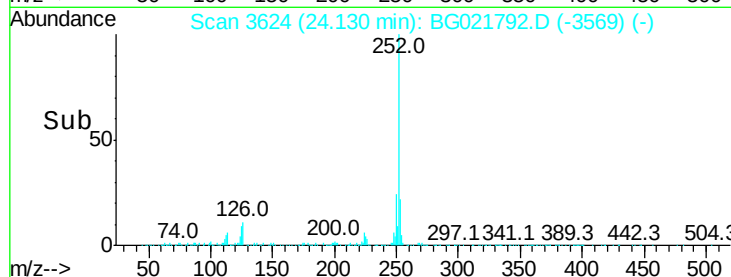
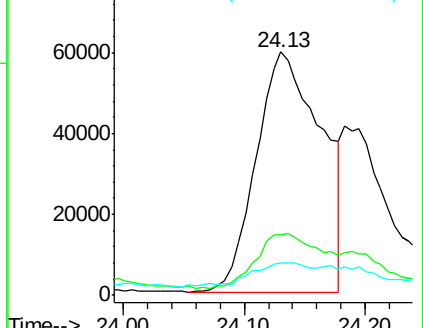
125 13.1 8.6 13.0#



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: 29.72 ng

RT: 24.13 min Scan# 3624

Delta R.T. -0.05 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

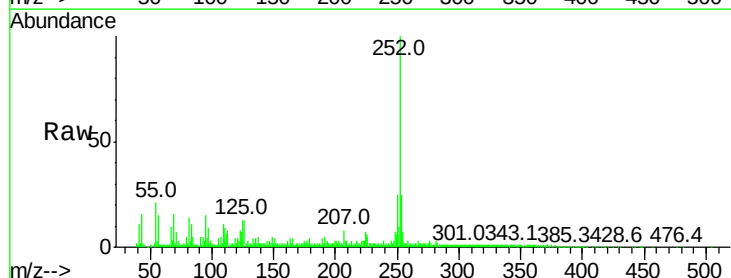
Tgt Ion:252 Resp: 222841

Ion Ratio Lower Upper

252 100

253 24.9 17.8 26.8

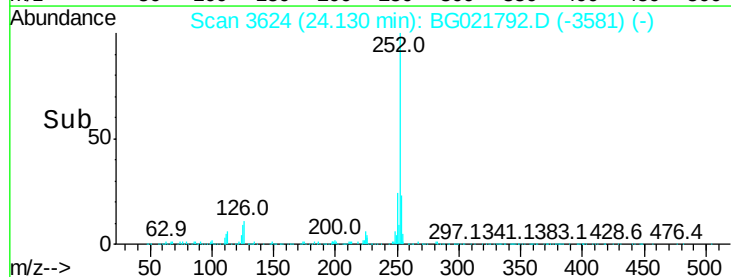
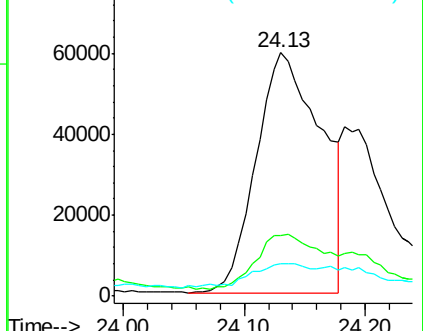
125 13.1 8.3 12.5#

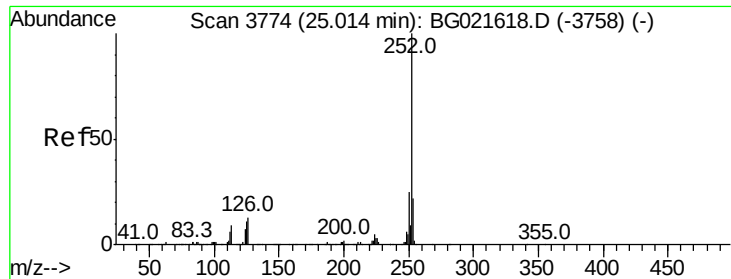


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 18.74 ng

RT: 25.04 min Scan# 3778

Delta R.T. 0.02 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

Instrument :

BNA_G

ClientSampleId :

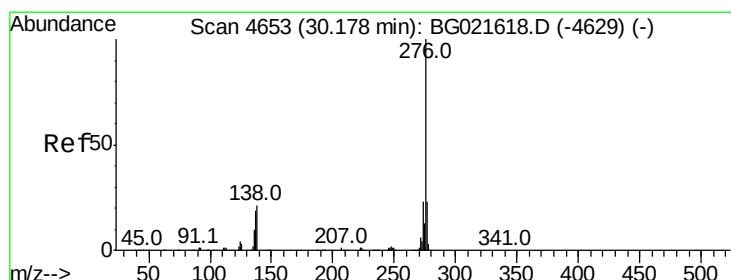
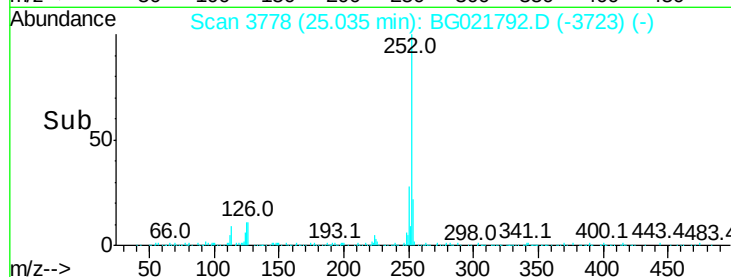
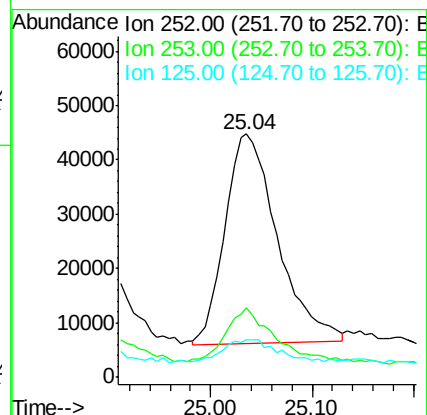
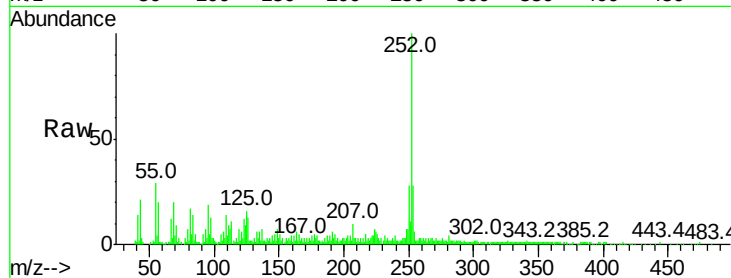
Tot Ion:252 Resp: 139172

Ion Ratio Lower Upper

252 100

253 28.5 17.1 25.7#

125 15.6 9.6 14.4#



#91

Benzo(g,h,i)perylene

Concen: 6.86 ng

RT: 30.25 min Scan# 4665

Delta R.T. 0.07 min

Lab File: BG021792.D

Acq: 20 Apr 2016 19:43

Tgt Ion:276 Resp: 50167

Ion Ratio Lower Upper

276 100

277 27.6 19.4 29.2

138 23.1 17.4 26.0

