

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061716\
 Data File : BG022432.D
 Acq On : 18 Jun 2016 20:38
 Operator : UM/SJ
 Sample : H3471-04
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 STA-1020-(0-4)

Quant Time: Jun 20 01:25:21 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 13 17:40:23 2016
 Response via : Initial Calibration

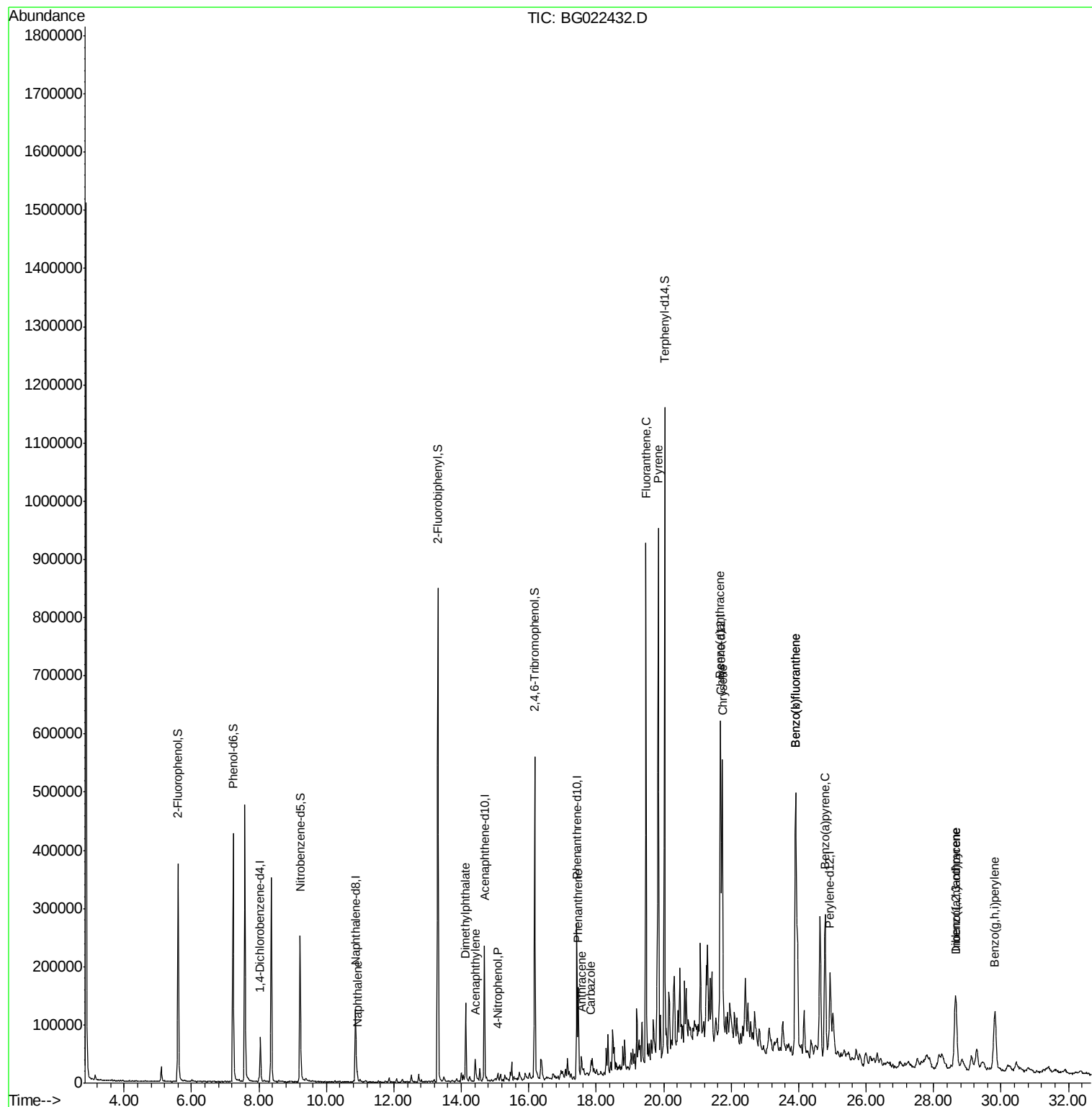
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.04	152	28039	20.00	ng	-0.05
21) Naphthalene-d8	10.86	136	140087	20.00	ng	-0.04
38) Acenaphthene-d10	14.68	164	87977	20.00	ng	-0.04
63) Phenanthrene-d10	17.43	188	174264	20.00	ng	-0.04
75) Chrysene-d12	21.69	240	158292	20.00	ng	-0.05
86) Perylene-d12	24.94	264	144553	20.00	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	246326	169.86	ng	-0.03
7) Phenol-d6	7.23	99	374971	164.45	ng	-0.02
23) Nitrobenzene-d5	9.22	82	207987	103.51	ng	-0.04
41) 2,4,6-Tribromophenol	16.18	330	113219	113.89	ng	-0.04
44) 2-Fluorobiphenyl	13.30	172	499939	86.60	ng	-0.04
78) Terphenyl-d14	20.02	244	502054	75.30	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	10.91	128	16832	2.41	ng	# 92
48) Acenaphthylene	14.41	152	50880	5.71	ng	96
49) Dimethylphthalate	14.13	163	108243	14.84	ng	99
55) 4-Nitrophenol	15.08	139	2461	2.03	ng	# 5
70) Phenanthrene	17.47	178	101940	10.77	ng	98
71) Anthracene	17.56	178	27732	2.95	ng	94
72) Carbazole	17.84	167	20504	2.31	ng	# 95
74) Fluoranthene	19.47	202	566242	52.04	ng	95
77) Pyrene	19.84	202	561724	57.08	ng	98
80) Benzo(a)anthracene	21.67	228	319003	35.94	ng	98
82) Chrysene	21.74	228	325532	37.69	ng	96
85) Indeno(1,2,3-cd)pyrene	28.66	276	194010	20.02	ng	# 90
87) Benzo(b)fluoranthene	23.91	252	512698	60.81	ng	# 92
88) Benzo(k)fluoranthene	23.91	252	512698	61.78	ng	# 92
89) Benzo(a)pyrene	24.78	252	248735	30.86	ng	# 92
90) Dibenzo(a,h)anthracene	28.67	278	50037	6.59	ng	# 88
91) Benzo(g,h,i)perylene	29.83	276	183271	23.20	ng	# 90

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.04 min Scan# 885

Delta R.T. -0.05 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

Instrument :

BNA_G

ClientSampleId :

STA-1020-(0-4)

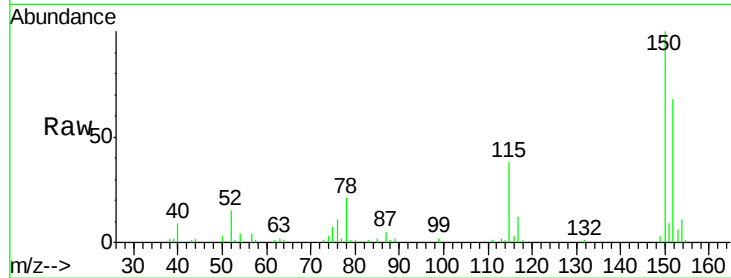
Tgt Ion:152 Resp: 28039

Ion Ratio Lower Upper

152 100

150 147.7 130.1 195.1

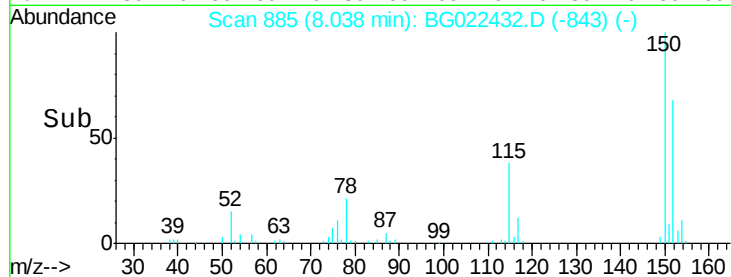
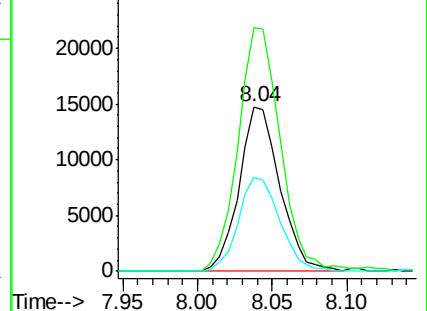
115 56.6 62.2 93.2#



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: 169.86 ng

RT: 5.60 min Scan# 470

Delta R.T. -0.03 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

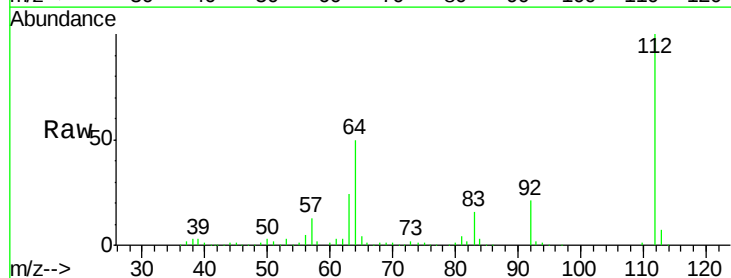
Tgt Ion:112 Resp: 246326

Ion Ratio Lower Upper

112 100

64 49.5 51.1 76.7#

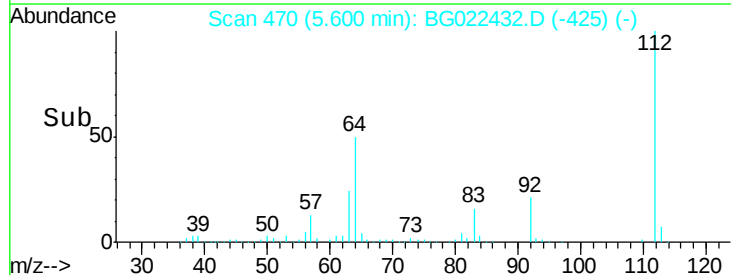
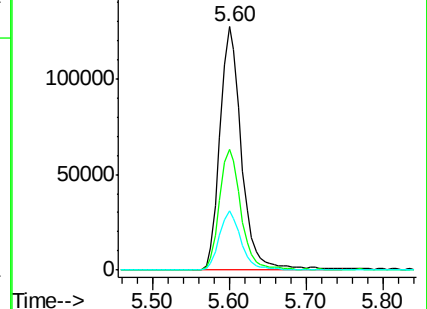
63 24.4 24.6 37.0#

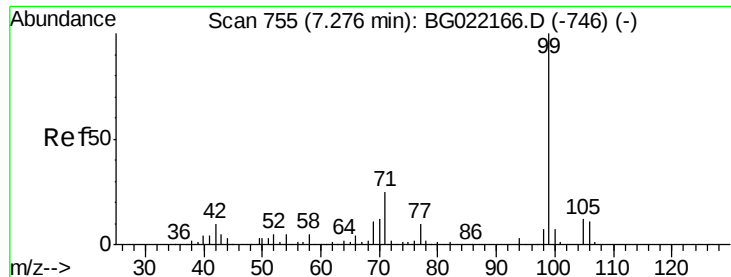


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 164.45 ng

RT: 7.23 min Scan# 748

Delta R.T. -0.02 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

Instrument :

BNA_G

ClientSampleId :

STA-1020-(0-4)

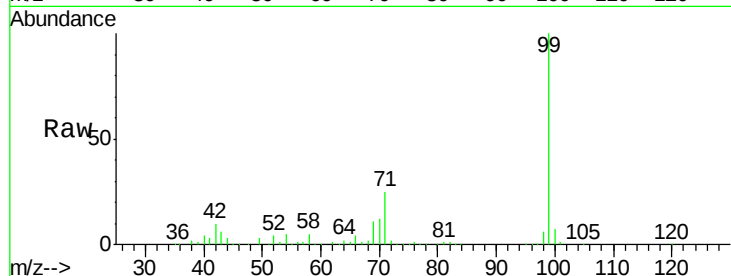
Tgt Ion: 99 Resp: 374971

Ion Ratio Lower Upper

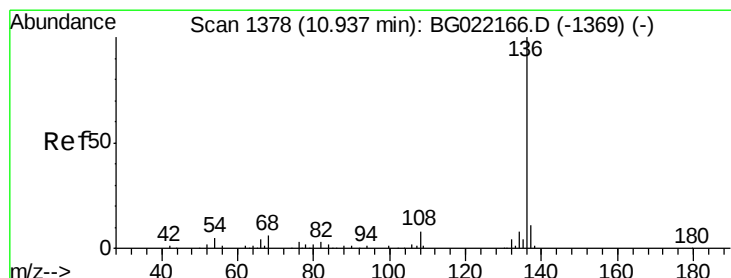
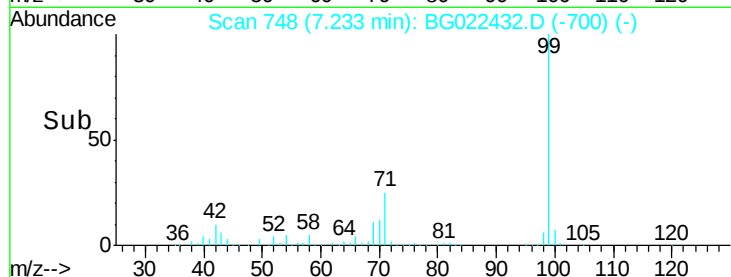
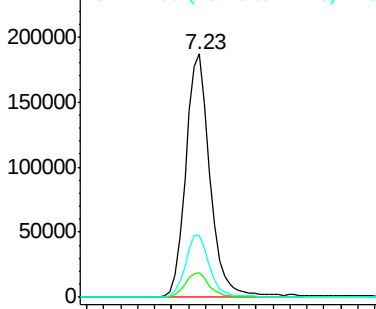
99 100

42 10.2 16.4 24.6#

71 25.3 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: 10.86 min Scan# 1366

Delta R.T. -0.04 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

Tgt Ion: 136 Resp: 140087

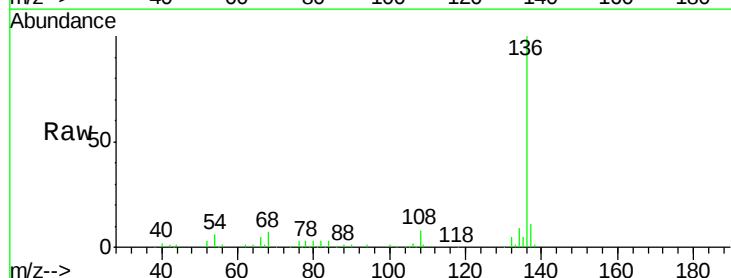
Ion Ratio Lower Upper

136 100

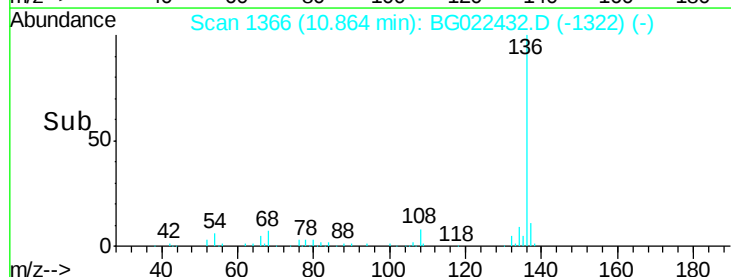
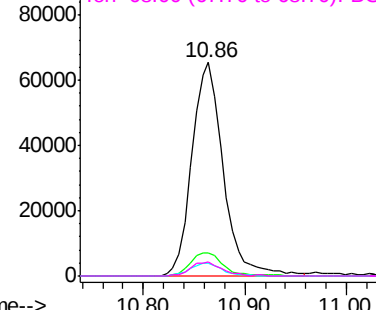
137 10.9 9.0 13.4

54 6.3 9.6 14.4#

68 6.5 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

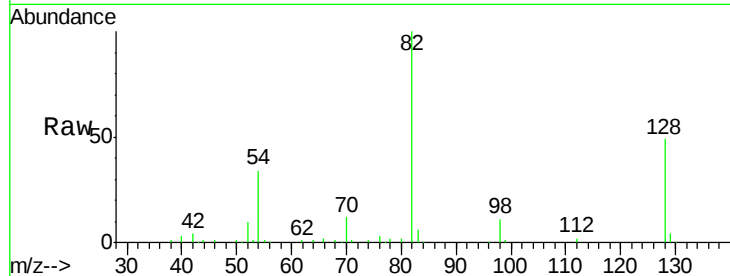




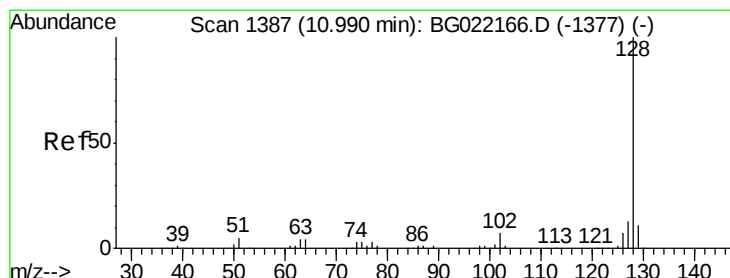
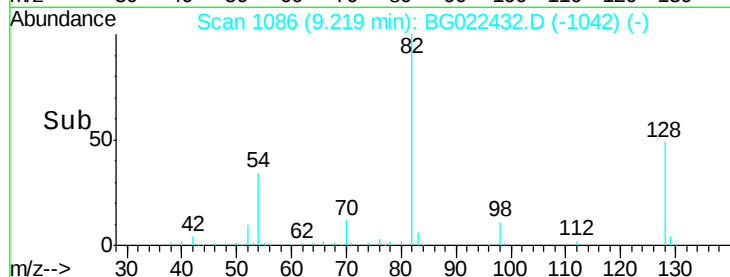
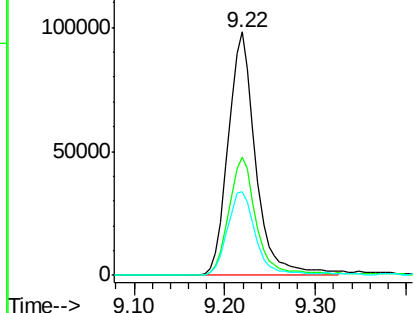
#23
 Nitrobenzene-d5
 Concen: 103.51 ng
 RT: 9.22 min Scan# 1086
 Delta R.T. -0.04 min
 Lab File: BG022432.D
 Acq: 18 Jun 2016 20:38

Instrument :
 BNA_G
 ClientSampleId :
 STA-1020-(0-4)

Tgt Ion	Ratio	Lower	Upper
82	100		
128	48.8	33.4	50.0
54	34.4	46.1	69.1#

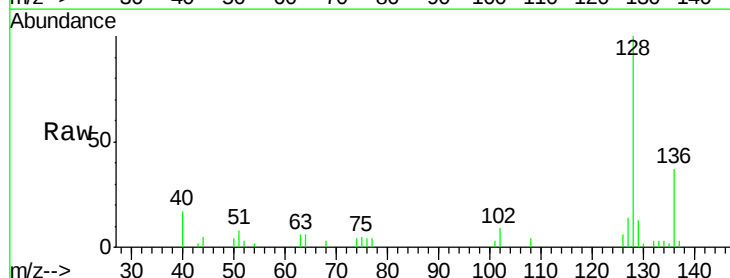


Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 128.00 (127.70 to 128.70): BGC
 Ion 54.00 (53.70 to 54.70): BGC

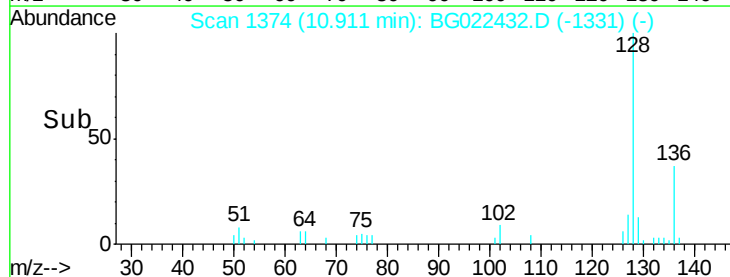
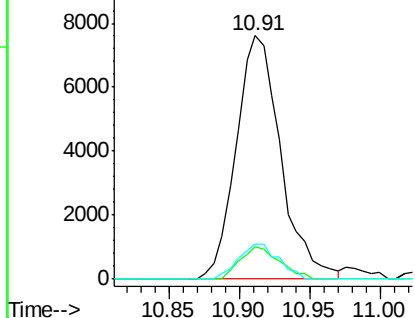


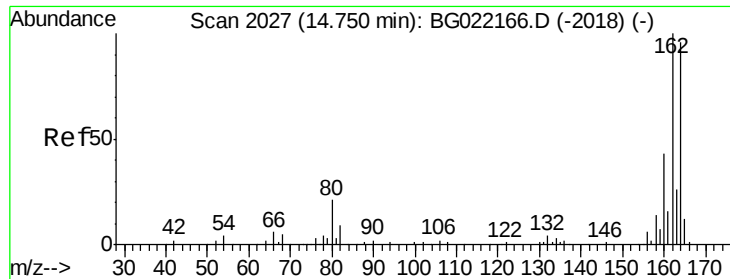
#31
 Naphthalene
 Concen: 2.41 ng
 RT: 10.91 min Scan# 1374
 Delta R.T. -0.05 min
 Lab File: BG022432.D
 Acq: 18 Jun 2016 20:38

Tgt Ion	Ratio	Lower	Upper
128	100		
129	13.3	7.0	10.6#
127	14.5	10.1	15.1



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.68 min Scan# 2016

Delta R.T. -0.04 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

Instrument :

BNA_G

ClientSampleId :

STA-1020-(0-4)

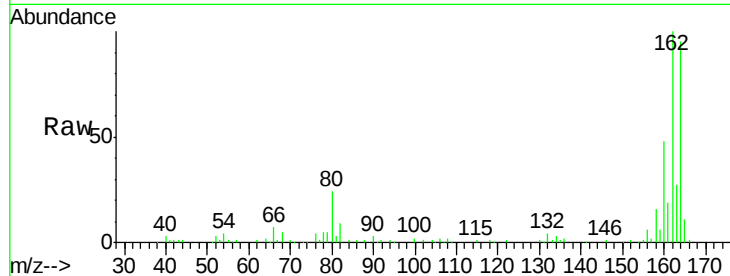
Tgt Ion:164 Resp: 87977

Ion Ratio Lower Upper

164 100

162 105.4 78.0 117.0

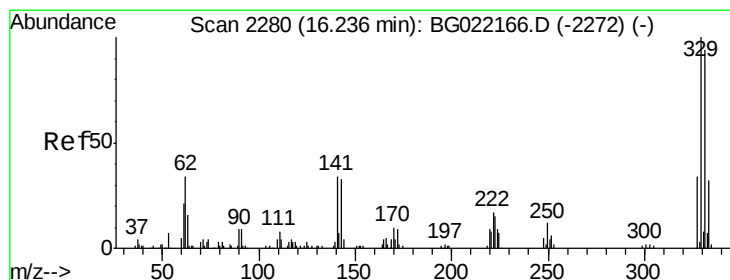
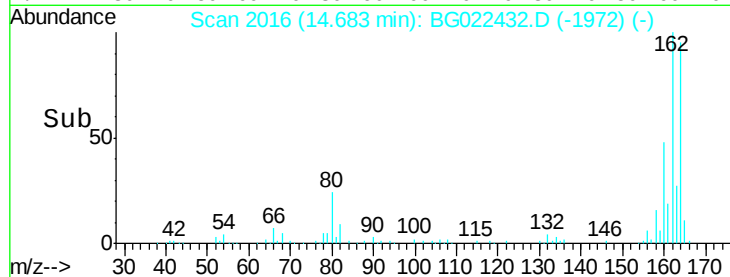
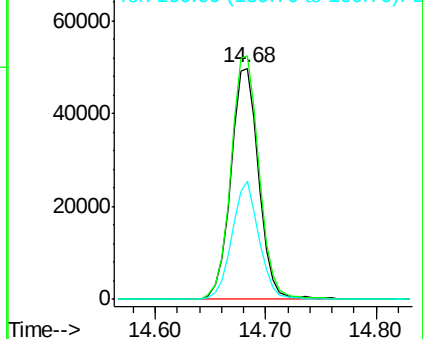
160 51.0 32.9 49.3#



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: 113.89 ng

RT: 16.18 min Scan# 2270

Delta R.T. -0.04 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

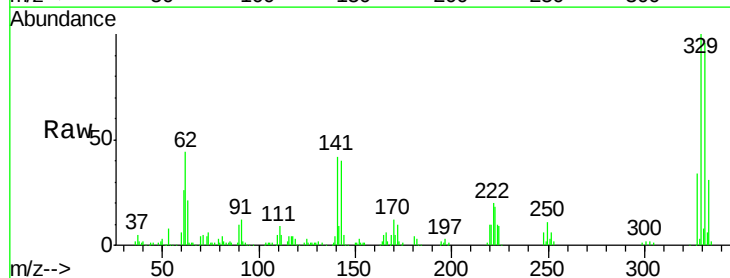
Tgt Ion:330 Resp: 113219

Ion Ratio Lower Upper

330 100

332 97.0 78.0 117.0

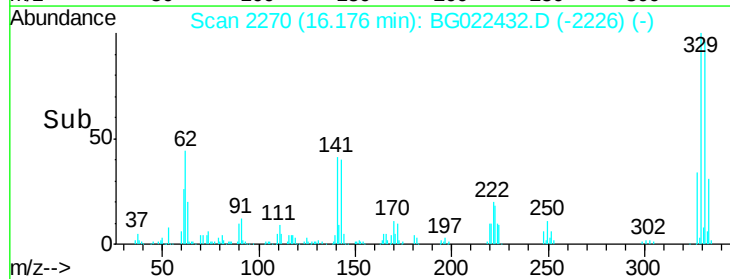
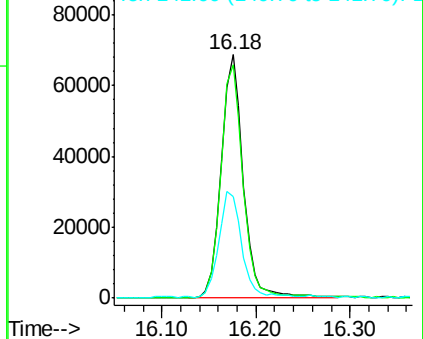
141 45.6 33.8 50.8

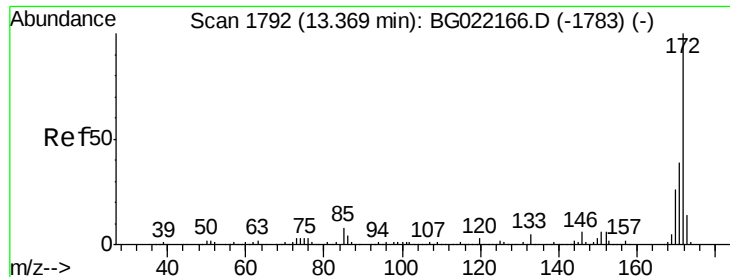


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

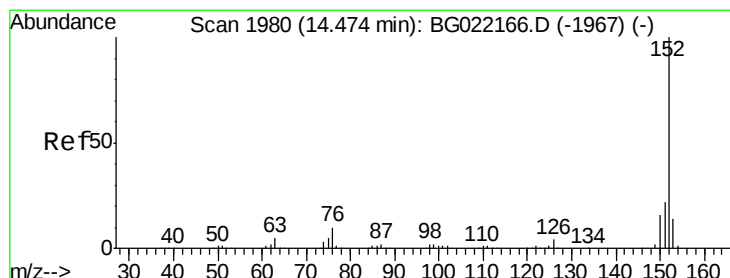
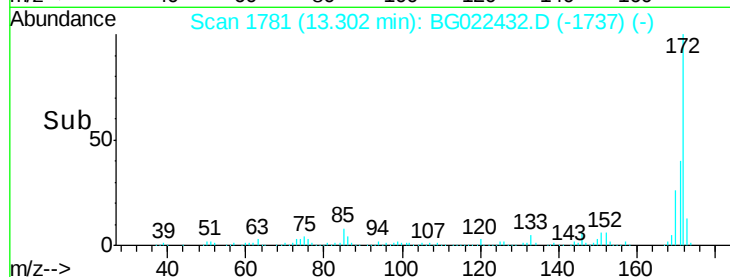
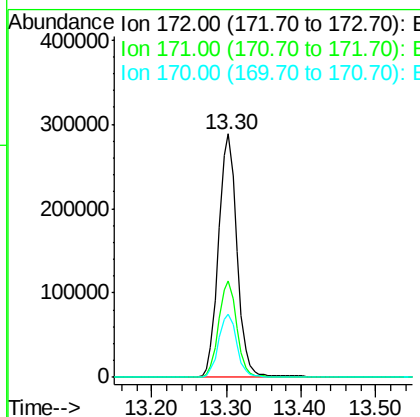
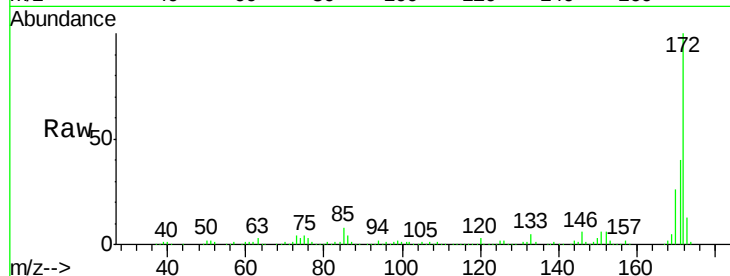




#44
2-Fluorobiphenyl
Concen: 86.60 ng
RT: 13.30 min Scan# 1781
Delta R.T. -0.04 min
Lab File: BG022432.D
Acq: 18 Jun 2016 20:38

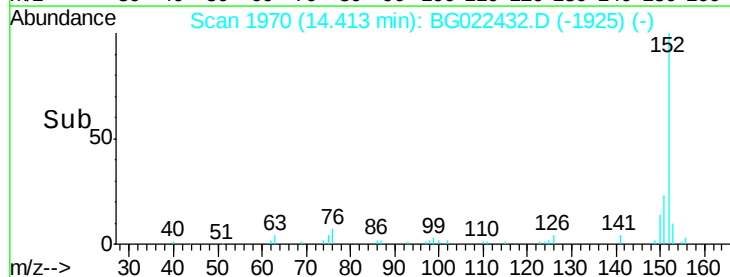
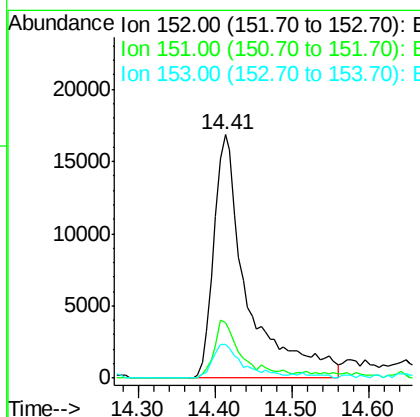
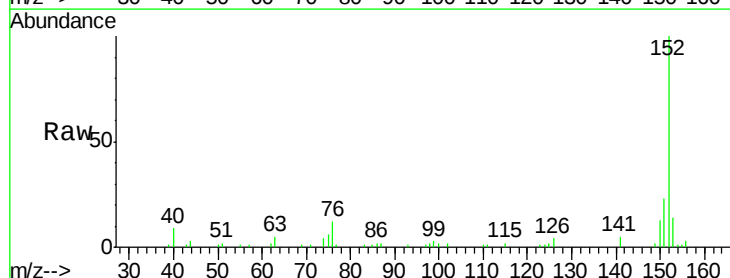
Instrument :
BNA_G
ClientSampleId :
STA-1020-(0-4)

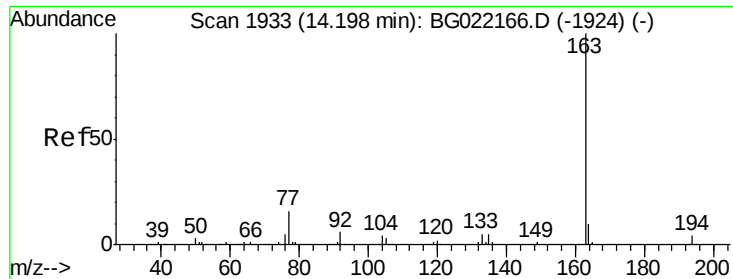
Tgt Ion	Ratio	Lower	Upper
172	100		
171	39.6	27.8	41.6
170	26.0	19.6	29.4



#48
Acenaphthylene
Concen: 5.71 ng
RT: 14.41 min Scan# 1970
Delta R.T. -0.03 min
Lab File: BG022432.D
Acq: 18 Jun 2016 20:38

Tgt Ion	Ratio	Lower	Upper
152	100		
151	22.8	16.6	24.8
153	13.8	10.2	15.2

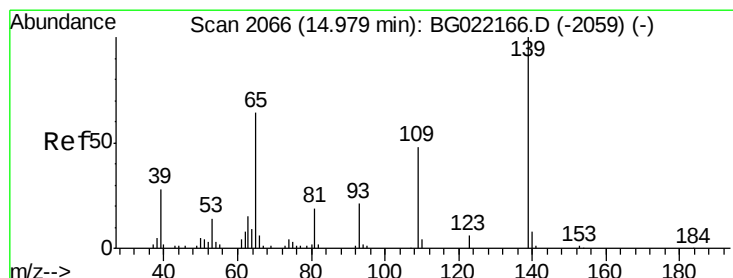
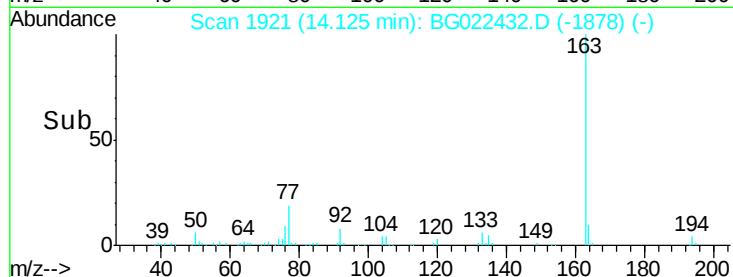
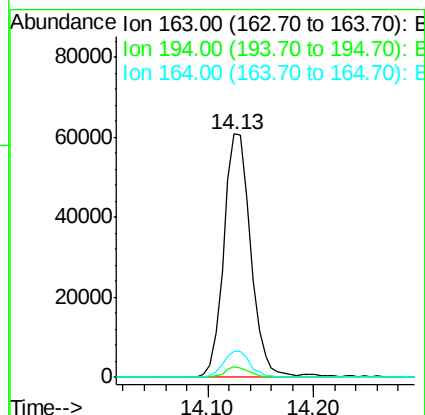
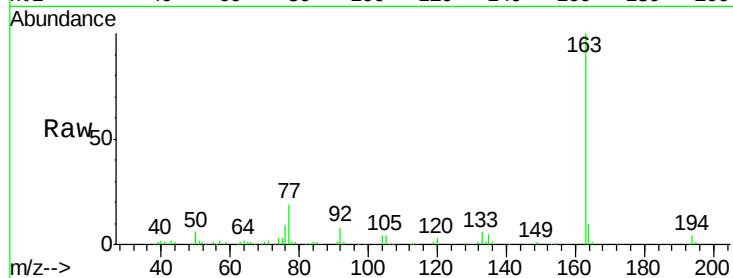




#49
Dimethylphthalate
Concen: 14.84 ng
RT: 14.13 min Scan# 1921
Delta R.T. -0.05 min
Lab File: BG022432.D
Acq: 18 Jun 2016 20:38

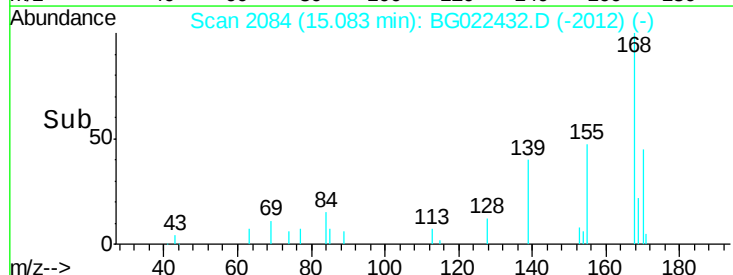
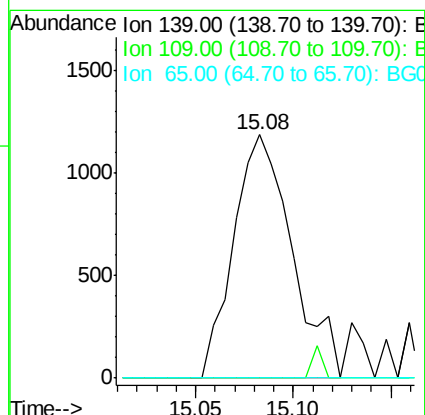
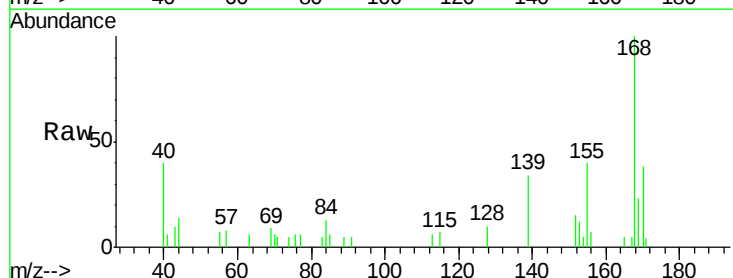
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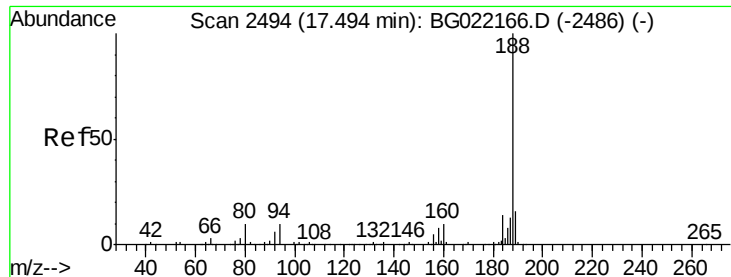
Tgt Ion:163 Resp: 108243
Ion Ratio Lower Upper
163 100
194 4.4 3.0 4.6
164 10.5 8.1 12.1



#55
4-Nitrophenol
Concen: 2.03 ng
RT: 15.08 min Scan# 2084
Delta R.T. 0.12 min
Lab File: BG022432.D
Acq: 18 Jun 2016 20:38

Tgt Ion:139 Resp: 2461
Ion Ratio Lower Upper
139 100
109 0.0 49.2 89.2#
65 0.0 83.2 123.2#

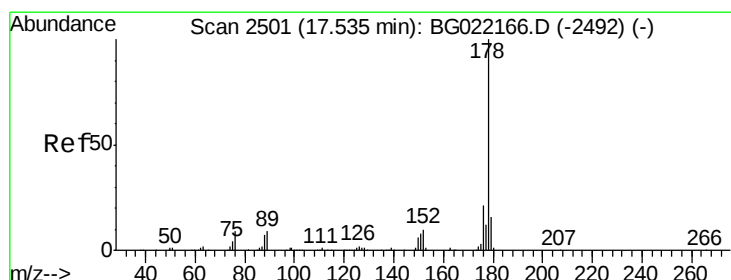
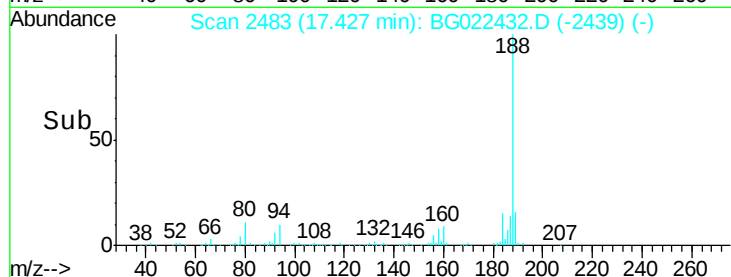
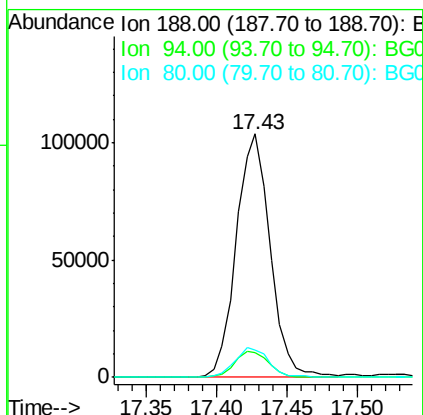
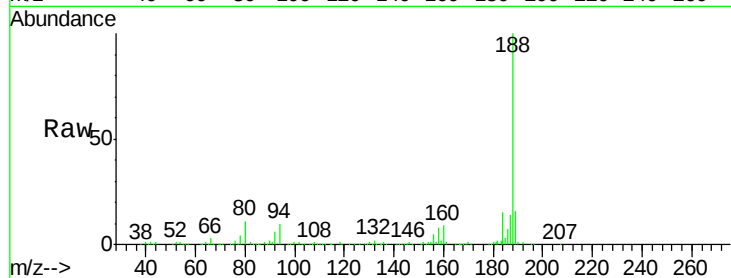




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.43 min Scan# 2483
Delta R.T. -0.04 min
Lab File: BG022432.D
Acq: 18 Jun 2016 20:38

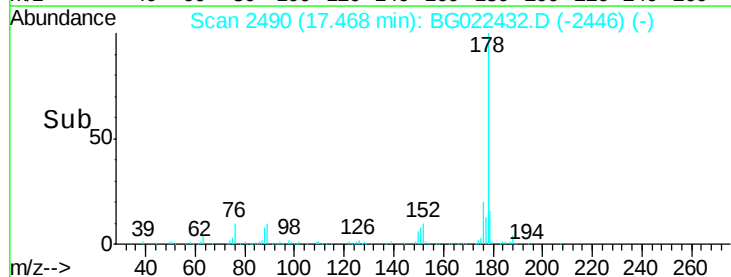
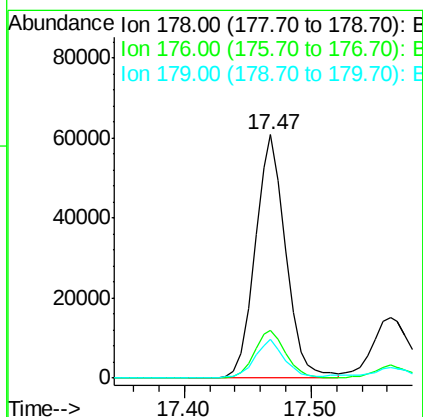
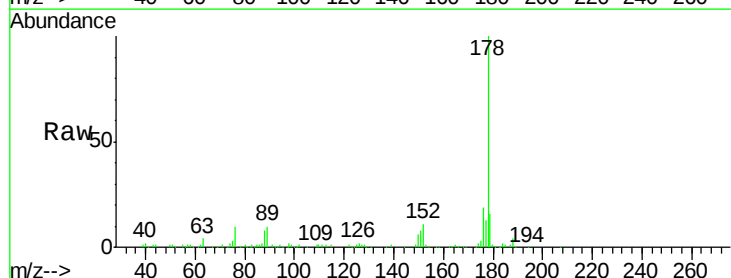
Instrument :
BNA_G
ClientSampleId :
STA-1020-(0-4)

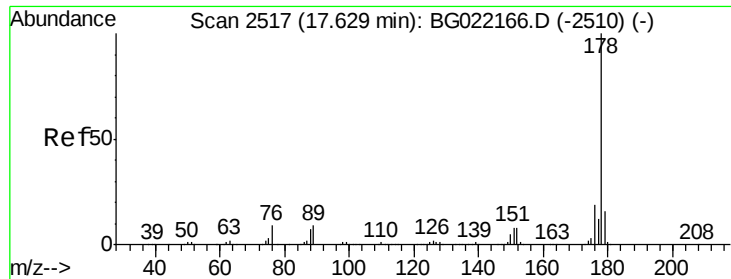
Tgt Ion:188 Resp: 174264
Ion Ratio Lower Upper
188 100
94 10.4 7.5 11.3
80 11.2 8.6 13.0



#70
Phenanthrene
Concen: 10.77 ng
RT: 17.47 min Scan# 2490
Delta R.T. -0.04 min
Lab File: BG022432.D
Acq: 18 Jun 2016 20:38

Tgt Ion:178 Resp: 101940
Ion Ratio Lower Upper
178 100
176 19.5 16.2 24.4
179 15.9 12.0 18.0

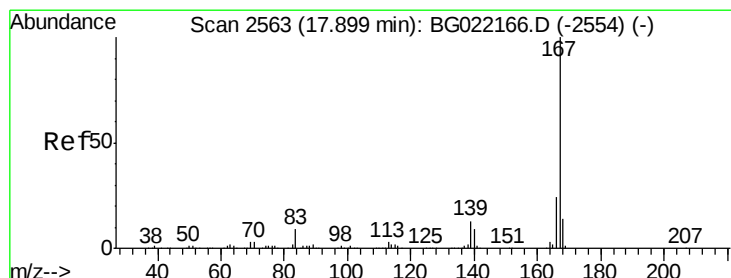
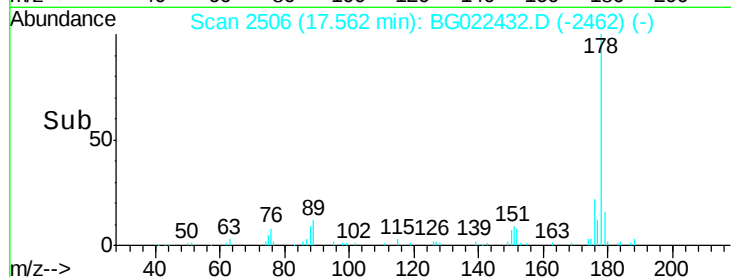
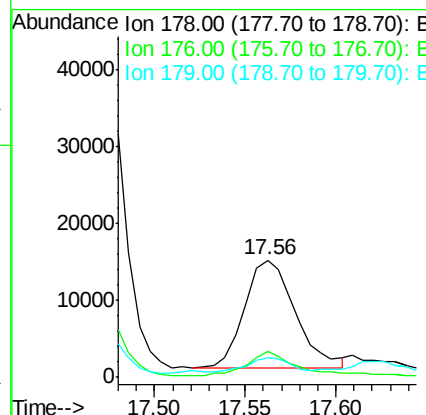
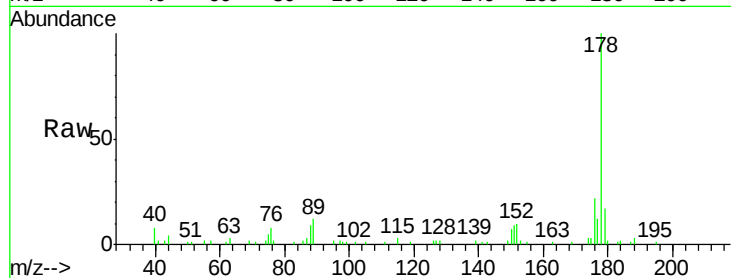




#71
 Anthracene
 Concen: 2.95 ng
 RT: 17.56 min Scan# 2506
 Delta R.T. -0.04 min
 Lab File: BG022432.D
 Acq: 18 Jun 2016 20:38

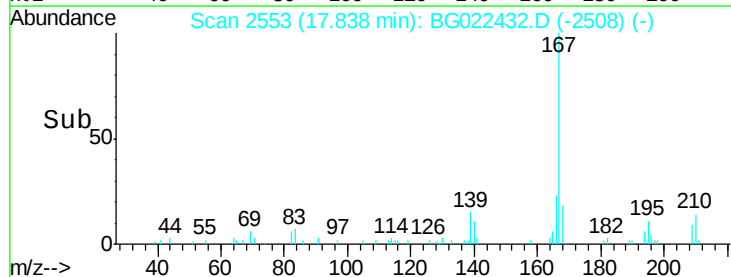
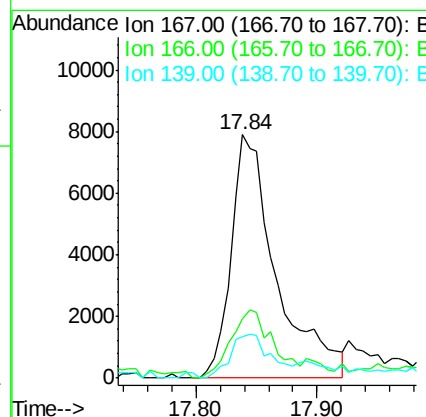
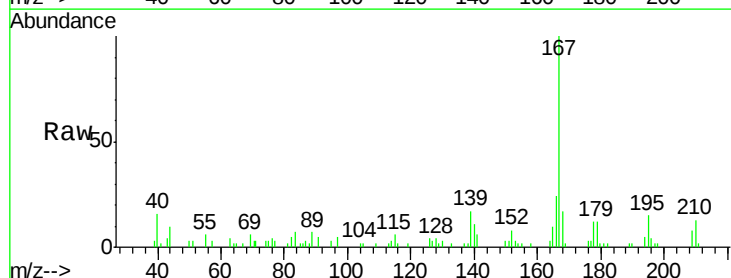
Instrument :
 BNA_G
 ClientSampleId :
 STA-1020-(0-4)

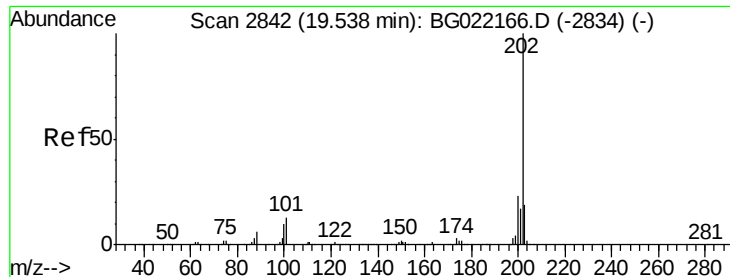
Tgt Ion:178 Resp: 27732
 Ion Ratio Lower Upper
 178 100
 176 22.2 15.0 22.4
 179 16.6 12.2 18.4



#72
 Carbazole
 Concen: 2.31 ng
 RT: 17.84 min Scan# 2553
 Delta R.T. -0.03 min
 Lab File: BG022432.D
 Acq: 18 Jun 2016 20:38

Tgt Ion:167 Resp: 20504
 Ion Ratio Lower Upper
 167 100
 166 24.3 18.6 27.8
 139 17.2 10.6 15.8#





#74

Fluoranthene

Concen: 52.04 ng

RT: 19.47 min Scan# 2831

Delta R.T. -0.04 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

Instrument :

BNA_G

ClientSampleId :

STA-1020-(0-4)

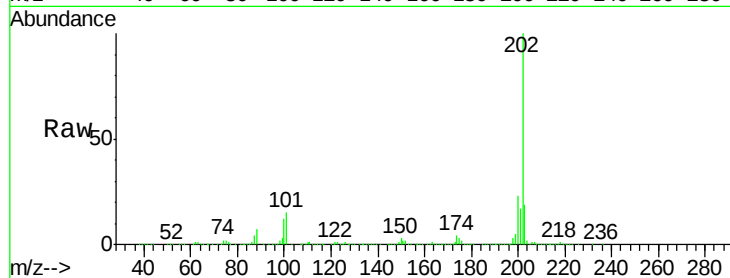
Tgt Ion:202 Resp: 566242

Ion Ratio Lower Upper

202 100

101 14.6 0.0 31.0

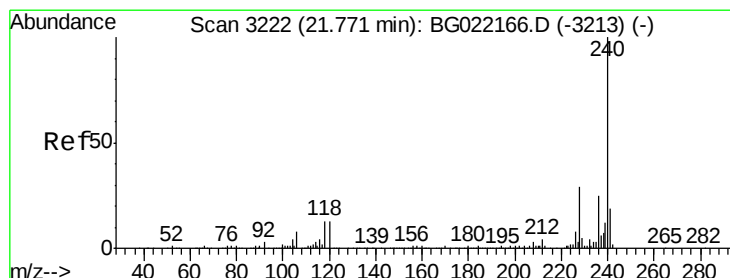
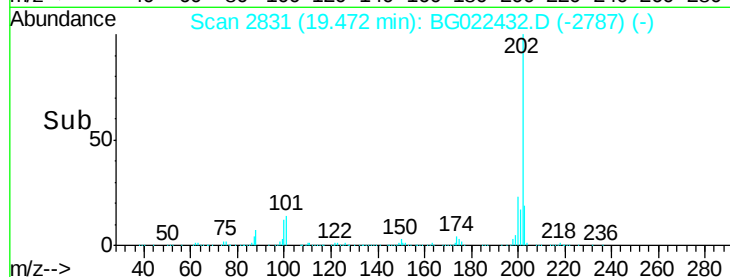
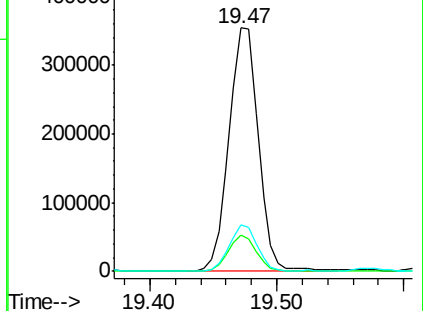
203 19.0 0.0 37.9



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.69 min Scan# 3209

Delta R.T. -0.05 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

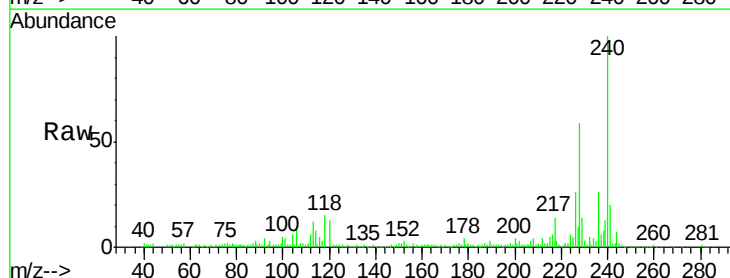
Tgt Ion:240 Resp: 158292

Ion Ratio Lower Upper

240 100

120 13.2 8.4 12.6#

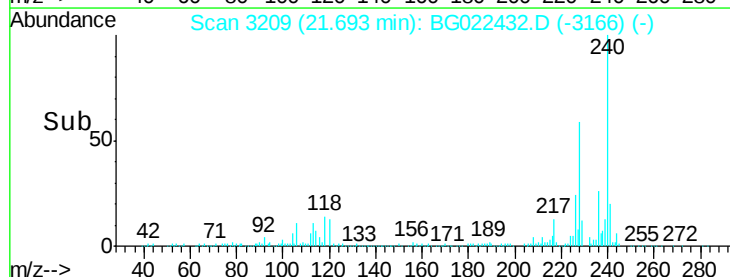
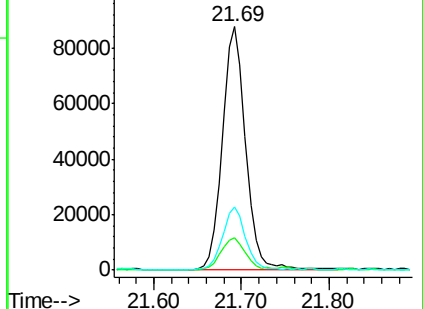
236 25.7 19.6 29.4

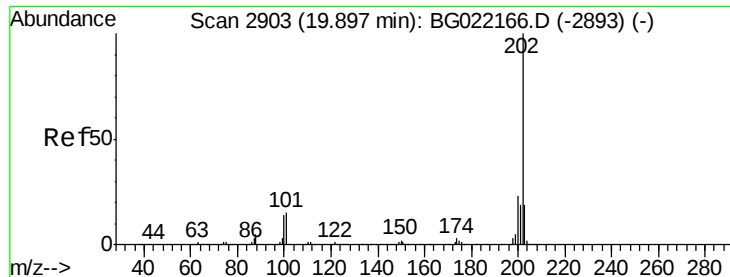


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 57.08 ng

RT: 19.84 min Scan# 2893

Delta R.T. -0.04 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

Instrument :

BNA_G

ClientSampleId :

STA-1020-(0-4)

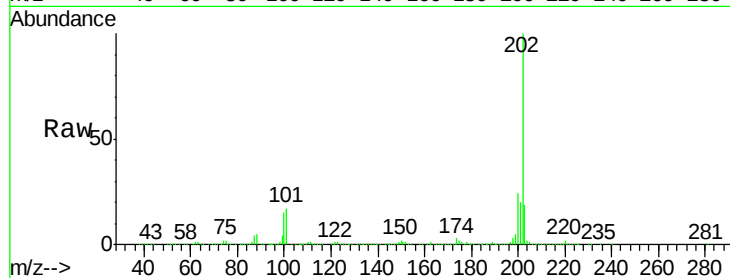
Tgt Ion:202 Resp: 561724

Ion Ratio Lower Upper

202 100

200 23.9 18.2 27.2

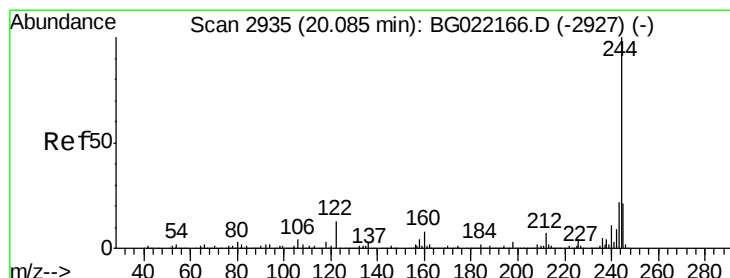
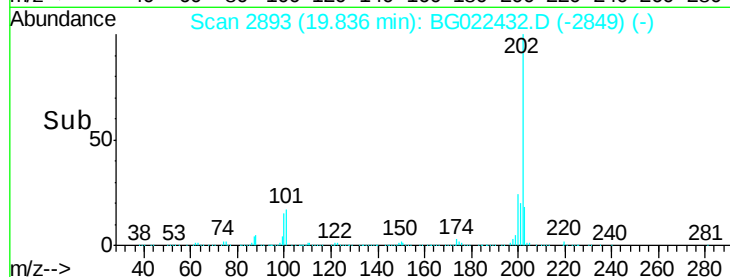
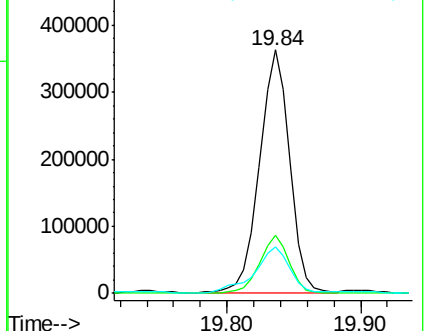
203 19.1 15.0 22.4



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: 75.30 ng

RT: 20.02 min Scan# 2925

Delta R.T. -0.03 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

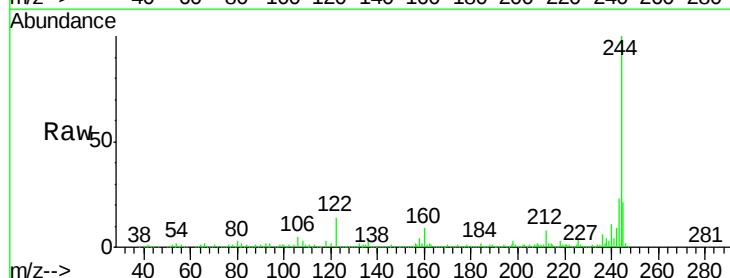
Tgt Ion:244 Resp: 502054

Ion Ratio Lower Upper

244 100

212 7.9 6.5 9.7

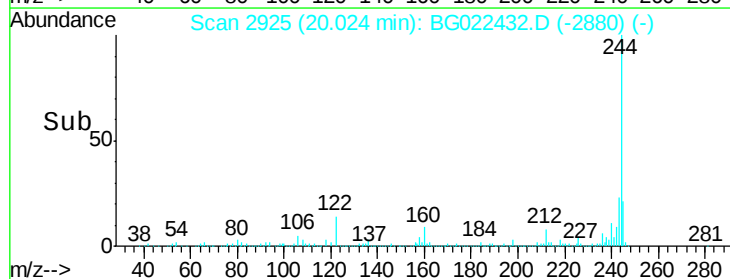
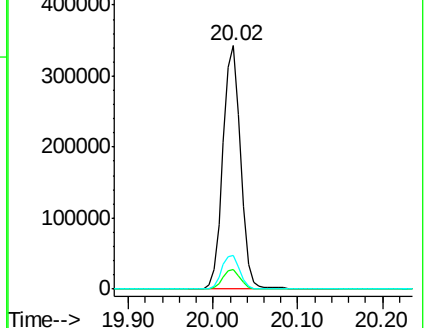
122 13.8 8.6 12.8#

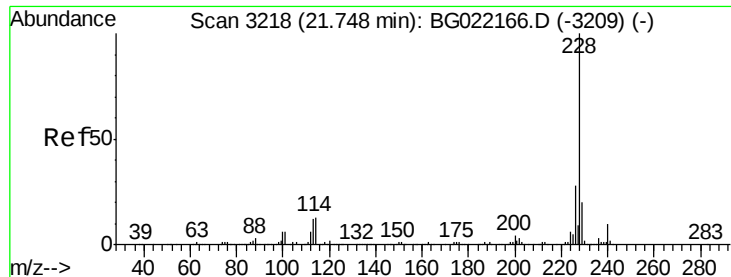


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 35.94 ng

RT: 21.67 min Scan# 3205

Delta R.T. -0.05 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

Instrument :

BNA_G

ClientSampleId :

STA-1020-(0-4)

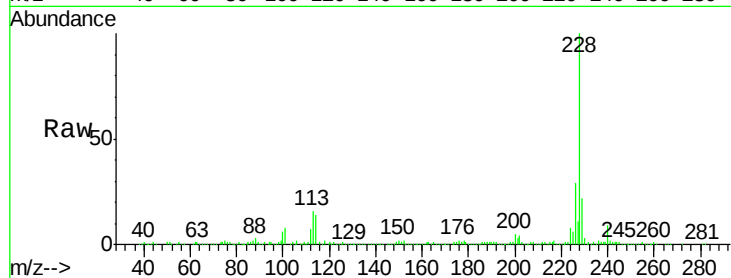
Tgt Ion:228 Resp: 319003

Ion Ratio Lower Upper

228 100

226 28.8 22.6 34.0

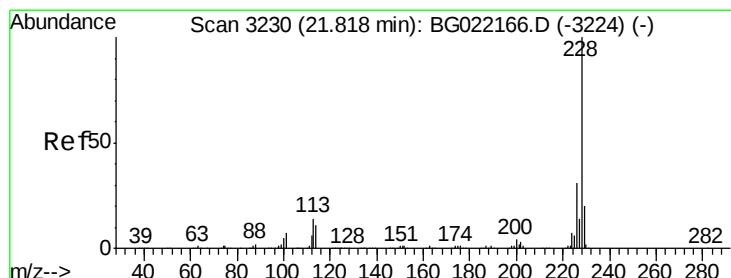
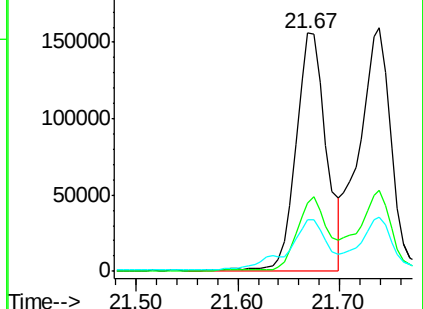
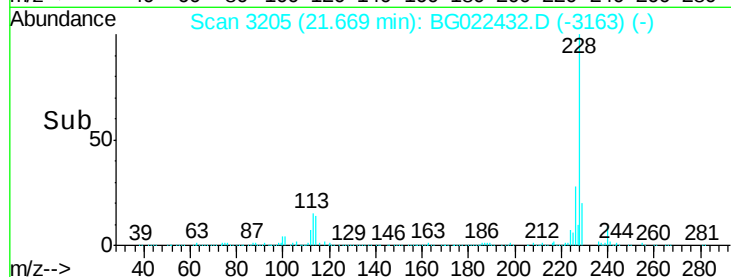
229 21.6 16.1 24.1



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: 37.69 ng

RT: 21.74 min Scan# 3217

Delta R.T. -0.05 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

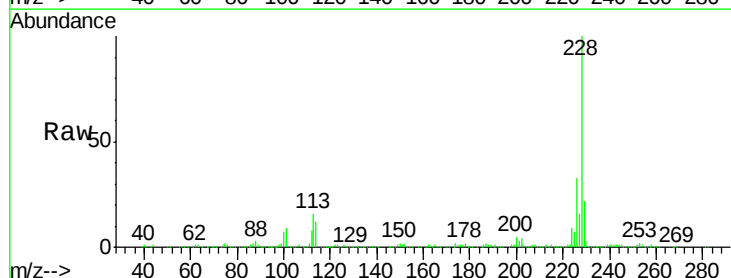
Tgt Ion:228 Resp: 325532

Ion Ratio Lower Upper

228 100

226 33.1 25.4 38.0

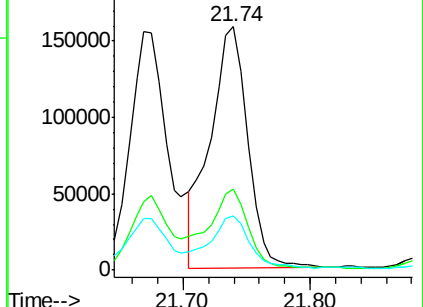
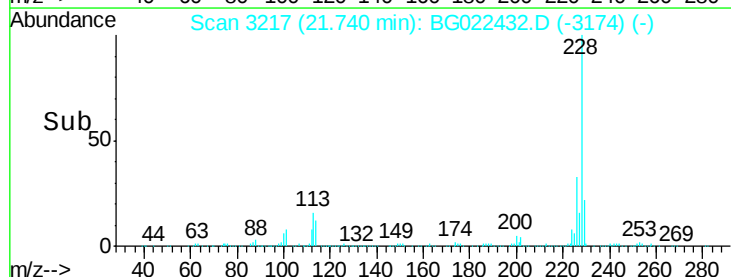
229 22.4 15.9 23.9

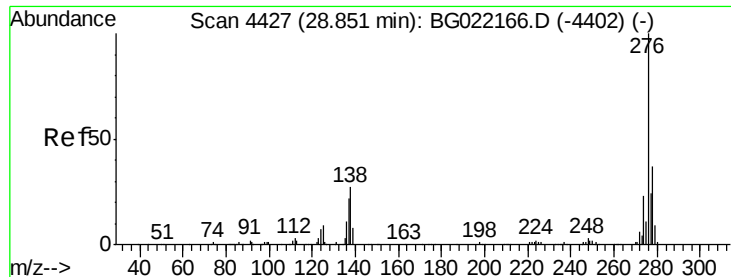


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

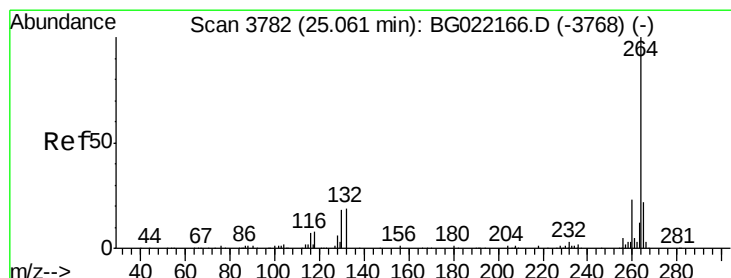
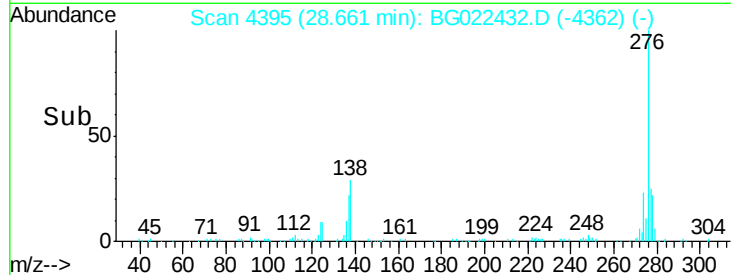
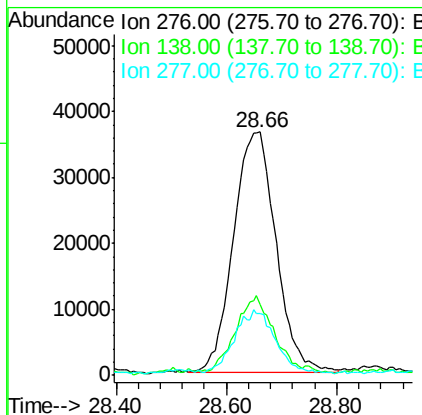
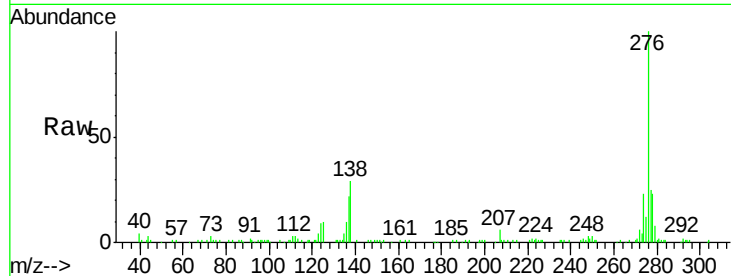




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 20.02 ng
 RT: 28.66 min Scan# 4395
 Delta R.T. -0.11 min
 Lab File: BG022432.D
 Acq: 18 Jun 2016 20:38

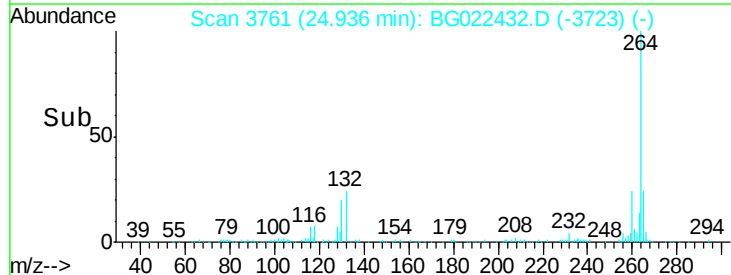
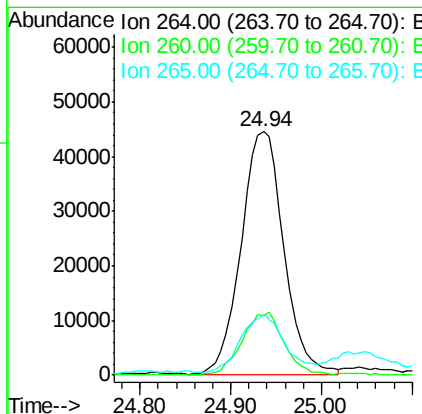
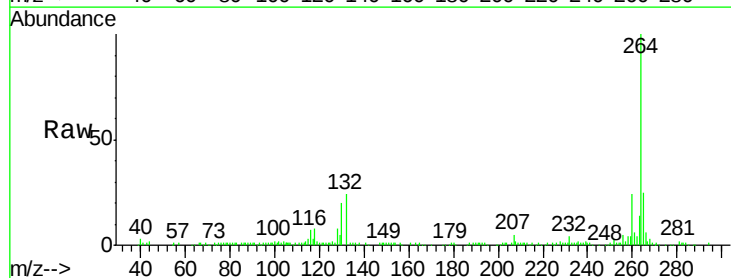
Instrument :
 BNA_G
 ClientSampleId :
 STA-1020-(0-4)

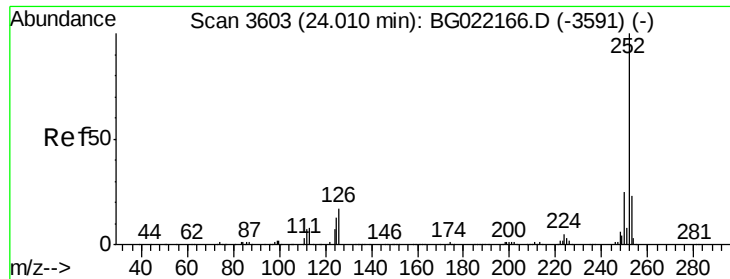
Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.5	14.0	21.0#
277	25.1	20.6	30.8



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 24.94 min Scan# 3761
 Delta R.T. -0.08 min
 Lab File: BG022432.D
 Acq: 18 Jun 2016 20:38

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	20.2	30.4
265	25.0	17.8	26.8





#87

Benzo(b)fluoranthene

Concen: 60.81 ng

RT: 23.91 min Scan# 3586

Delta R.T. -0.06 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

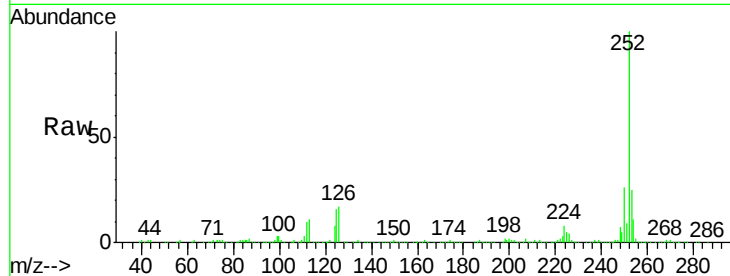
Instrument :

BNA_G

ClientSampleId :

STA-1020-(0-4)

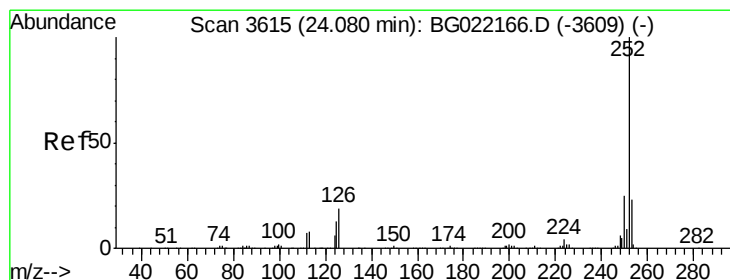
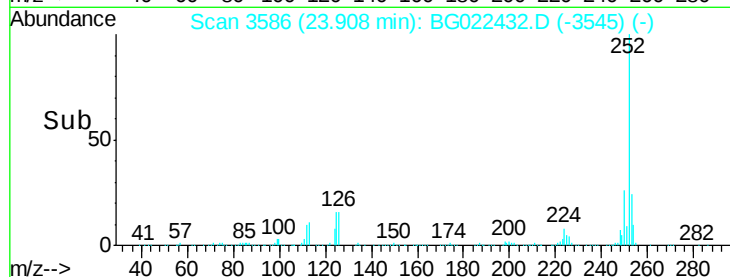
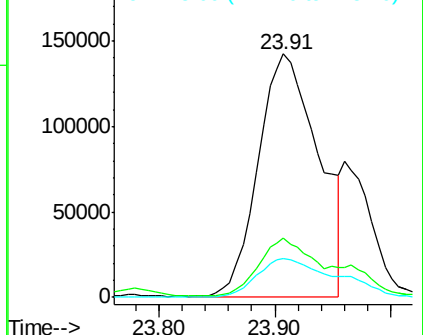
Tgt Ion:	252	Resp:	512698
Ion Ratio	Lower	Upper	
252	100		
253	24.6	17.5	26.3
125	15.9	8.6	13.0#



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: 61.78 ng

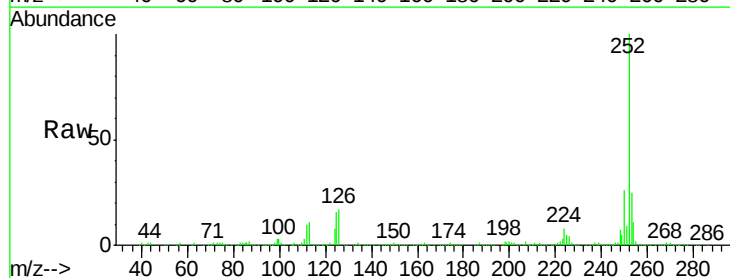
RT: 23.91 min Scan# 3586

Delta R.T. -0.13 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

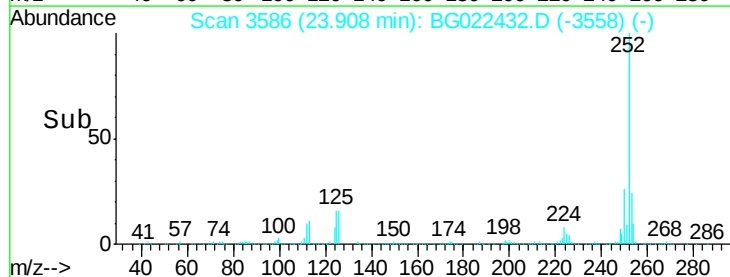
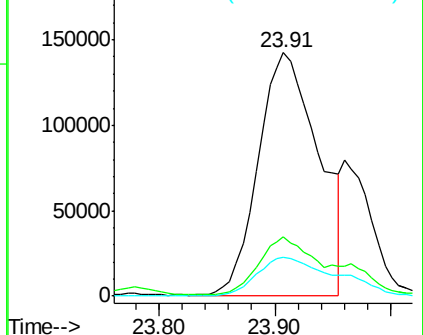
Tgt Ion:	252	Resp:	512698
Ion Ratio	Lower	Upper	
252	100		
253	24.6	17.8	26.8
125	15.9	8.3	12.5#

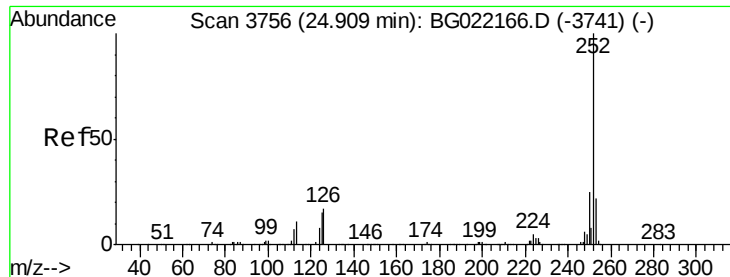


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 30.86 ng

RT: 24.78 min Scan# 3735

Delta R.T. -0.08 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

Instrument :

BNA_G

ClientSampleId :

STA-1020-(0-4)

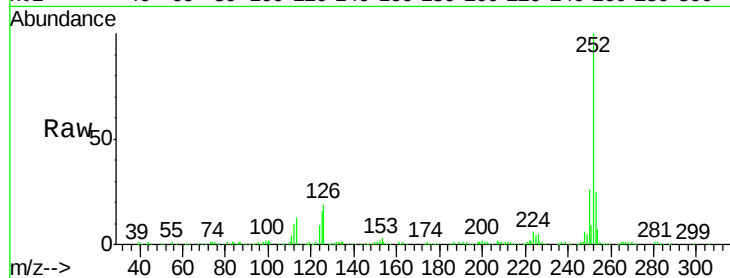
Tgt Ion:252 Resp: 248735

Ion Ratio Lower Upper

252 100

253 24.6 17.1 25.7

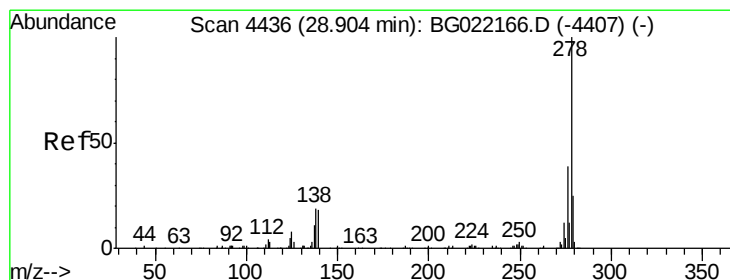
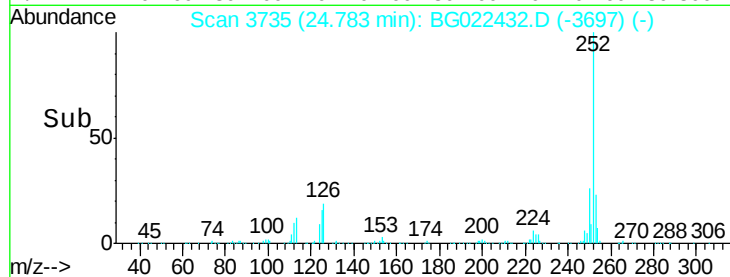
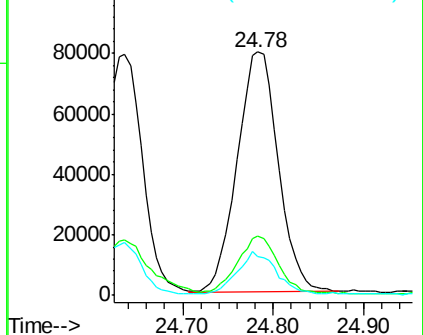
125 16.1 9.6 14.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 6.59 ng

RT: 28.67 min Scan# 4397

Delta R.T. -0.15 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

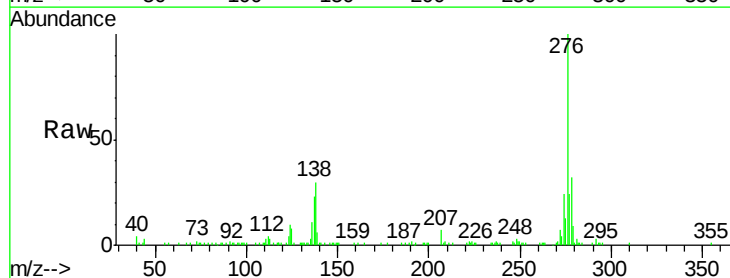
Tgt Ion:278 Resp: 50037

Ion Ratio Lower Upper

278 100

139 20.3 11.9 17.9#

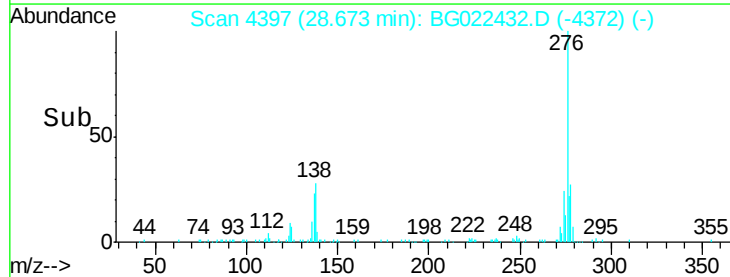
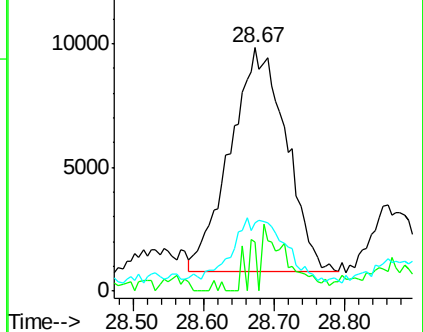
279 28.0 18.2 27.2#

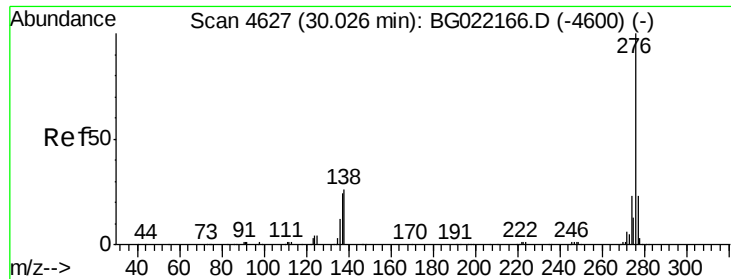


Abundance Ion 278.00 (277.70 to 278.70): E

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: 23.20 ng

RT: 29.83 min Scan# 4594

Delta R.T. -0.11 min

Lab File: BG022432.D

Acq: 18 Jun 2016 20:38

Instrument :

BNA_G

ClientSampleId :

STA-1020-(0-4)

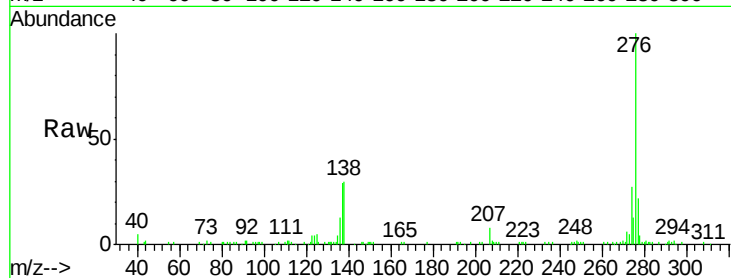
Tgt Ion: 276 Resp: 183271

Ion Ratio Lower Upper

276 100

277 22.2 19.4 29.2

138 29.6 17.4 26.0#



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

