

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG062023\
 Data File : BG057777.D
 Acq On : 20 Jun 2023 15:30
 Operator : CG/JU
 Sample : 03289-02
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-01-4.0-6.0

Quant Time: Jun 21 01:03:56 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG061923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 20 03:40:38 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

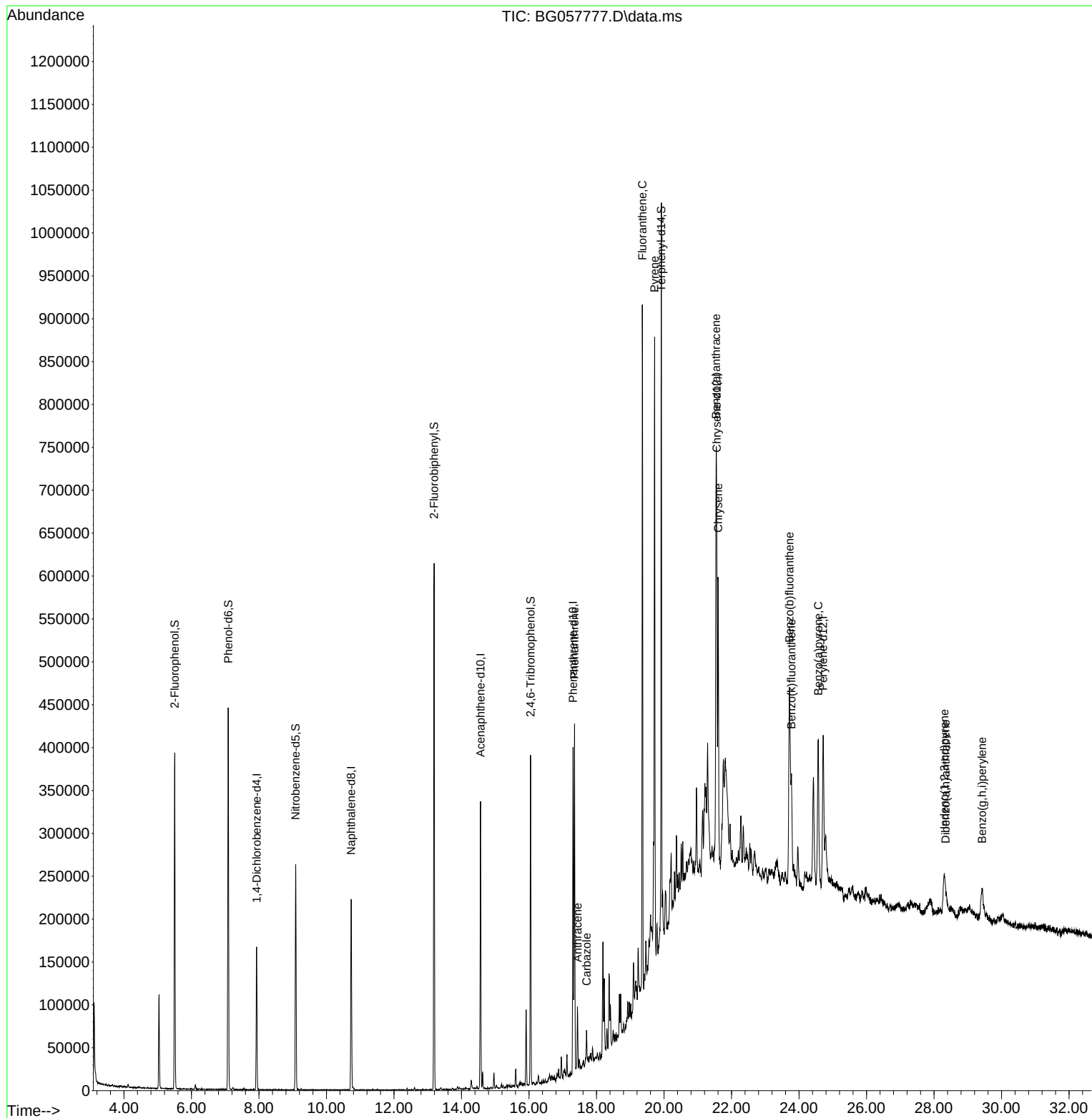
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.929	152	44156	20.000	ng	0.00
21) Naphthalene-d8	10.732	136	186010	20.000	ng	0.00
39) Acenaphthene-d10	14.563	164	115487	20.000	ng	0.00
64) Phenanthrene-d10	17.307	188	239373	20.000	ng	0.00
76) Chrysene-d12	21.560	240	189111	20.000	ng	0.00
86) Perylene-d12	24.715	264	218245	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.503	112	163389	57.055	ng	0.00
7) Phenol-d6	7.089	99	251099	57.465	ng	0.00
23) Nitrobenzene-d5	9.087	82	152032	41.948	ng	0.00
42) 2,4,6-Tribromophenol	16.049	330	75959	47.217	ng	0.00
45) 2-Fluorobiphenyl	13.188	172	323598	42.500	ng	0.00
79) Terphenyl-d14	19.921	244	426577	42.061	ng	0.00
Target Compounds						
						Qvalue
71) Phenanthrene	17.348	178	240262	20.730	ng	97
72) Anthracene	17.436	178	49214m	4.158	ng	
73) Carbazole	17.706	167	24114	2.210	ng	97
75) Fluoranthene	19.357	202	478033	34.622	ng	99
78) Pyrene	19.721	202	450793	33.416	ng	99
81) Benzo(a)anthracene	21.543	228	254635	19.625	ng	99
83) Chrysene	21.601	228	247199	19.853	ng	97
87) Indeno(1,2,3-cd)pyrene	28.305	276	101612	7.121	ng	# 92
88) Benzo(b)fluoranthene	23.717	252	294646	24.637	ng	# 95
89) Benzo(k)fluoranthene	23.775	252	126222m	10.363	ng	
90) Benzo(a)pyrene	24.569	252	205005	17.454	ng	95
91) Dibenzo(a,h)anthracene	28.347	278	26894m	2.272	ng	
92) Benzo(g,h,i)perylene	29.422	276	87706m	7.399	ng	

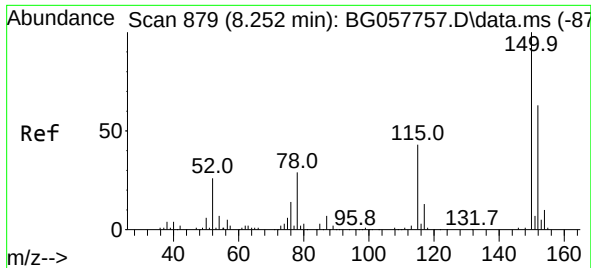
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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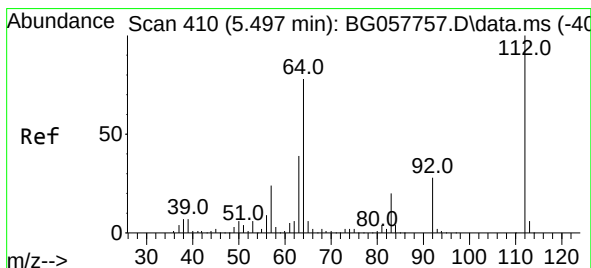
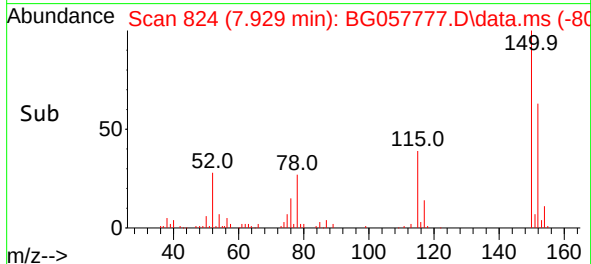
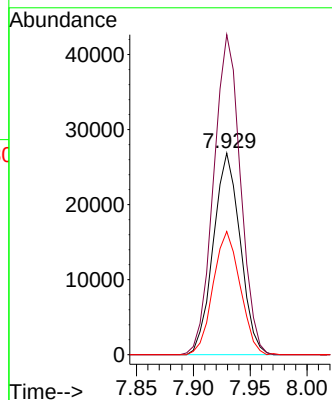
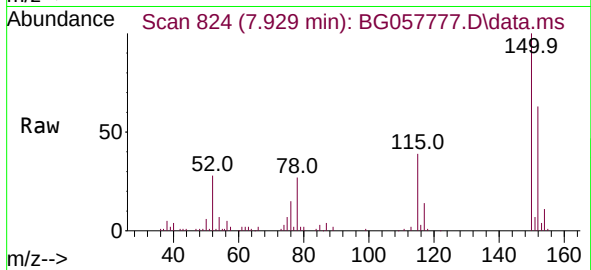




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.929 min Scan# 81
Delta R.T. 0.000 min
Lab File: BG057777.D
Acq: 20 Jun 2023 15:30

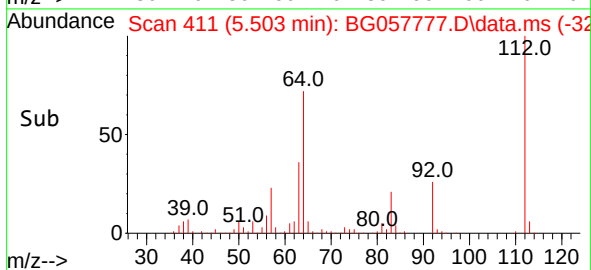
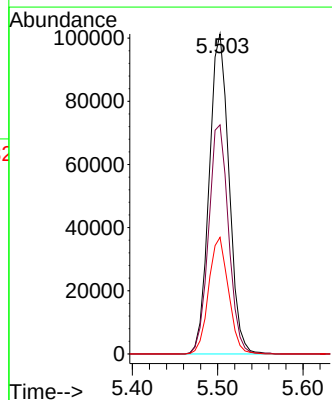
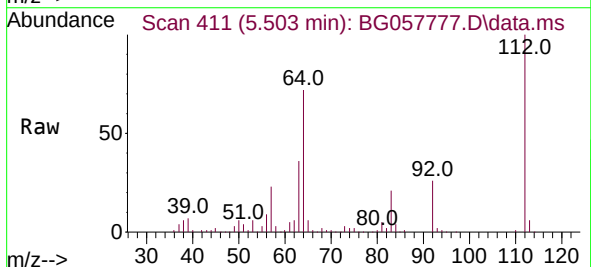
Instrument :
BNA_G
ClientSampleId :
SB-01-4.0-6.0

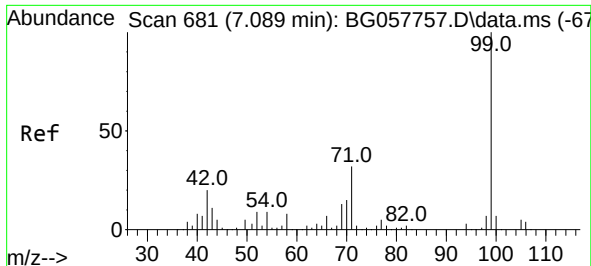
Tgt Ion:152 Resp: 44156
Ion Ratio Lower Upper
152 100
150 158.8 126.6 189.8
115 61.1 48.9 73.3



#5
2-Fluorophenol
Concen: 57.055 ng
RT: 5.503 min Scan# 411
Delta R.T. 0.006 min
Lab File: BG057777.D
Acq: 20 Jun 2023 15:30

Tgt Ion:112 Resp: 163389
Ion Ratio Lower Upper
112 100
64 71.6 62.1 93.1
63 36.5 31.5 47.3

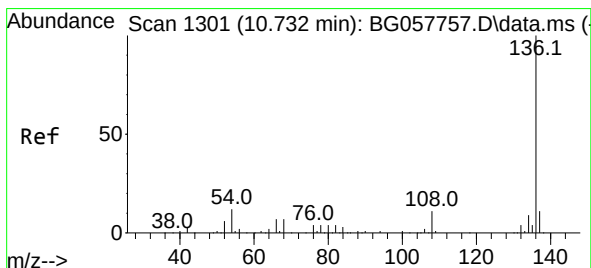
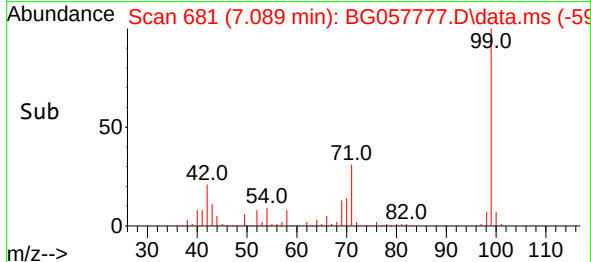
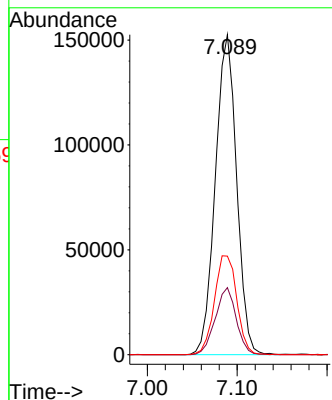
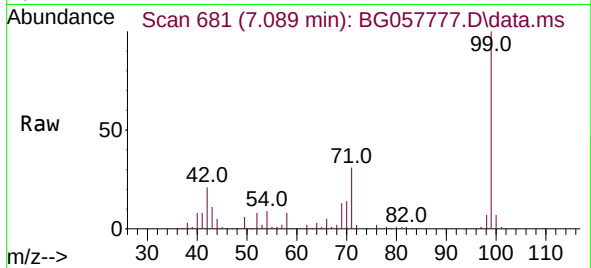




#7
Phenol-d6
Concen: 57.465 ng
RT: 7.089 min Scan# 681
Delta R.T. 0.000 min
Lab File: BG057777.D
Acq: 20 Jun 2023 15:30

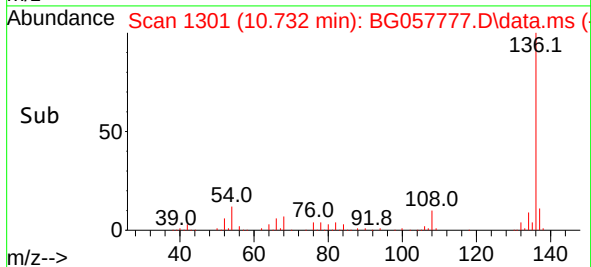
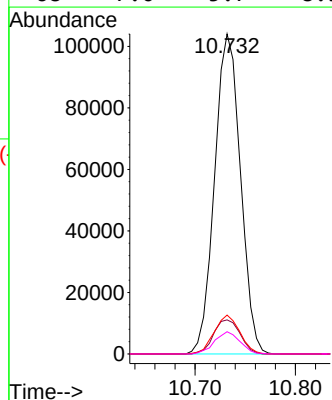
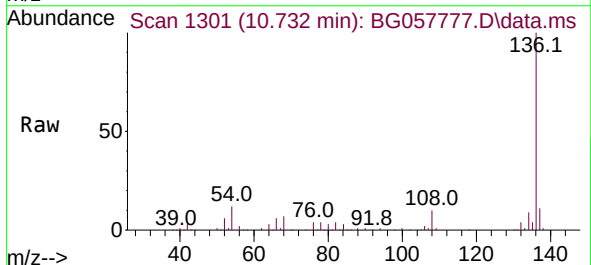
Instrument :
BNA_G
ClientSampleId :
SB-01-4.0-6.0

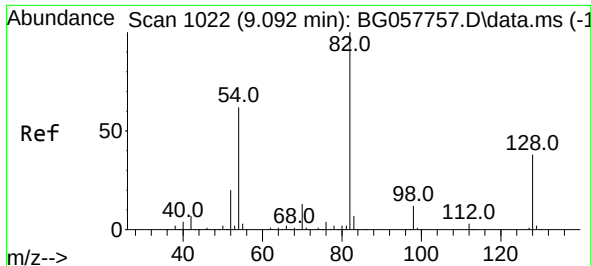
Tgt Ion: 99 Resp: 251099
Ion Ratio Lower Upper
99 100
42 21.0 16.4 24.6
71 30.8 25.8 38.6



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.732 min Scan# 1301
Delta R.T. 0.000 min
Lab File: BG057777.D
Acq: 20 Jun 2023 15:30

Tgt Ion: 136 Resp: 186010
Ion Ratio Lower Upper
136 100
137 10.7 8.5 12.7
54 12.2 9.5 14.3
68 7.0 5.7 8.5





#23

Nitrobenzene-d5

Concen: 41.948 ng

RT: 9.087 min Scan# 1021

Delta R.T. -0.006 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

Instrument :

BNA_G

ClientSampleId :

SB-01-4.0-6.0

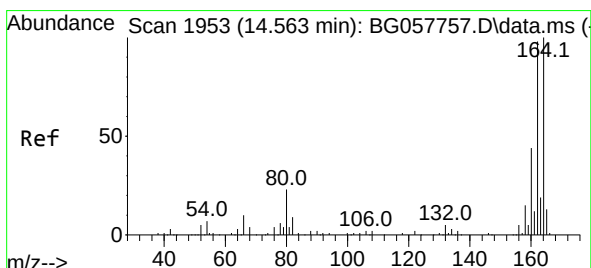
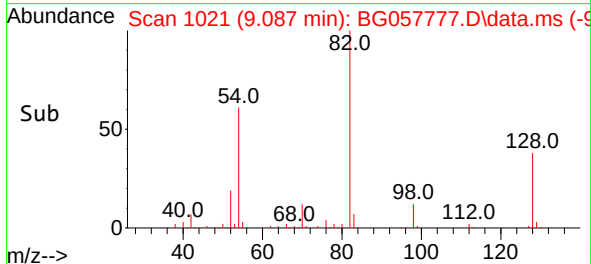
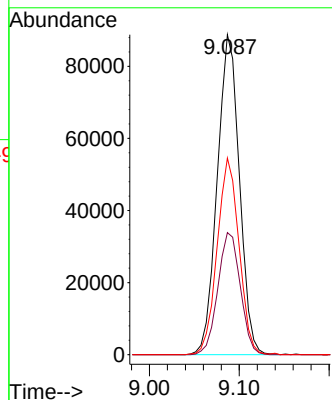
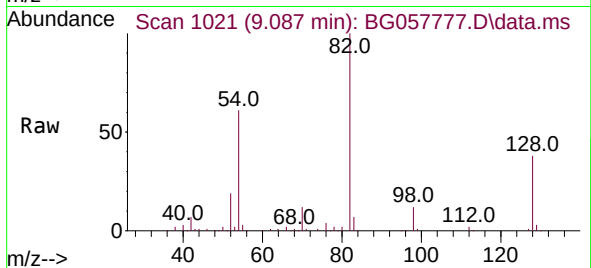
Tgt Ion: 82 Resp: 152032

Ion Ratio Lower Upper

82 100

128 38.1 30.7 46.1

54 61.5 49.6 74.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.563 min Scan# 1953

Delta R.T. 0.000 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

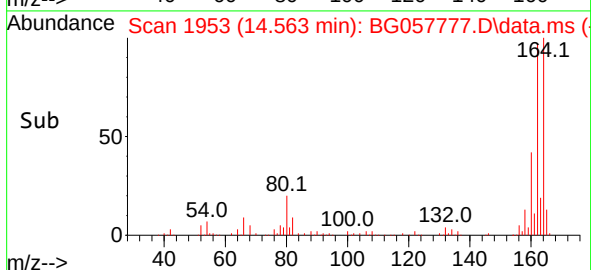
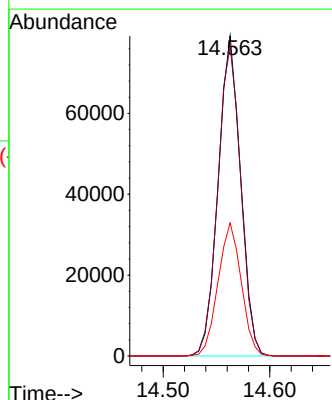
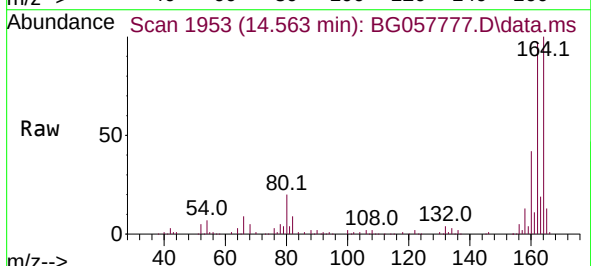
Tgt Ion:164 Resp: 115487

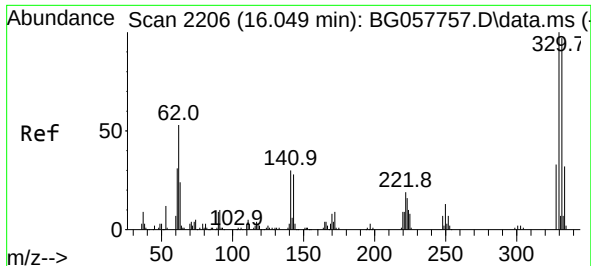
Ion Ratio Lower Upper

164 100

162 96.8 78.3 117.5

160 41.6 35.4 53.0

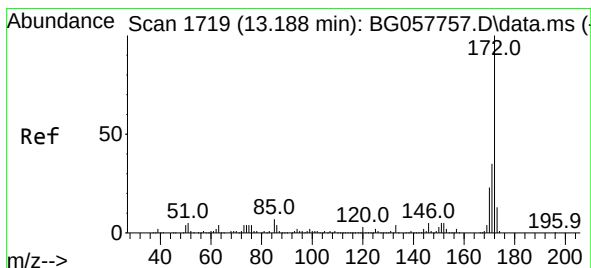
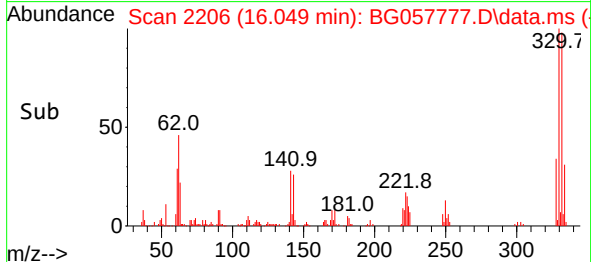
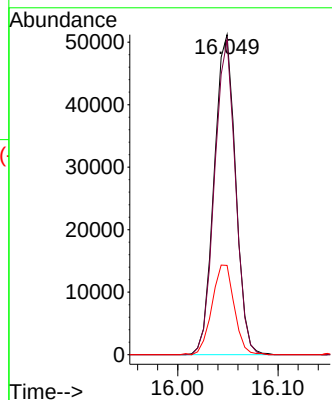
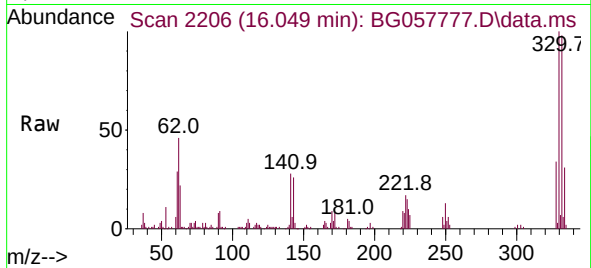




#42
2,4,6-Tribromophenol
Concen: 47.217 ng
RT: 16.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: BG057777.D
Acq: 20 Jun 2023 15:30

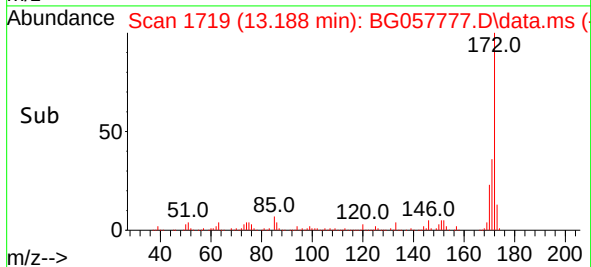
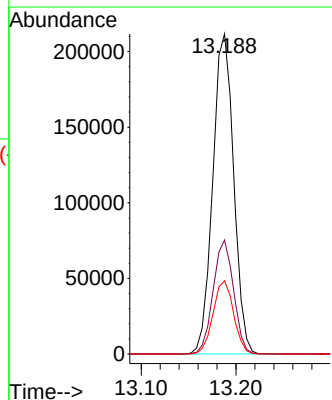
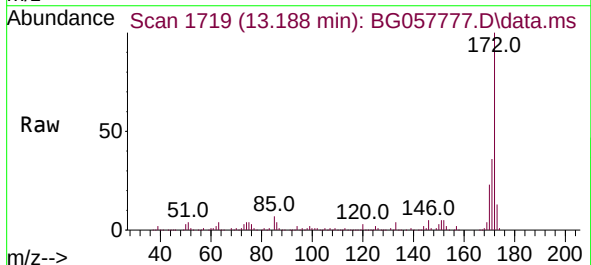
Instrument :
BNA_G
ClientSampleId :
SB-01-4.0-6.0

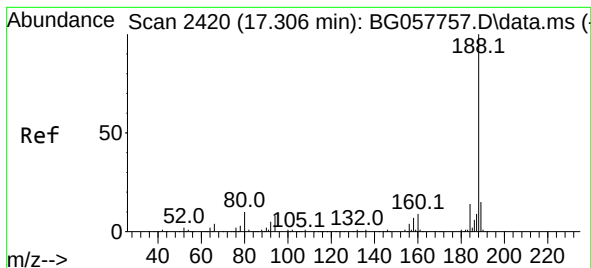
Tgt Ion:330 Resp: 75959
Ion Ratio Lower Upper
330 100
332 95.9 76.6 115.0
141 29.1 24.7 37.1



#45
2-Fluorobiphenyl
Concen: 42.500 ng
RT: 13.188 min Scan# 1719
Delta R.T. 0.000 min
Lab File: BG057777.D
Acq: 20 Jun 2023 15:30

Tgt Ion:172 Resp: 323598
Ion Ratio Lower Upper
172 100
171 35.6 28.1 42.1
170 22.8 18.6 27.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.307 min Scan# 2420

Delta R.T. 0.000 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

Instrument :

BNA_G

ClientSampleId :

SB-01-4.0-6.0

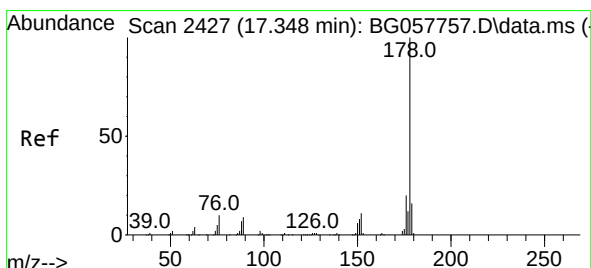
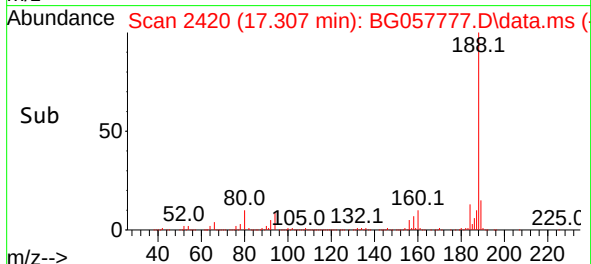
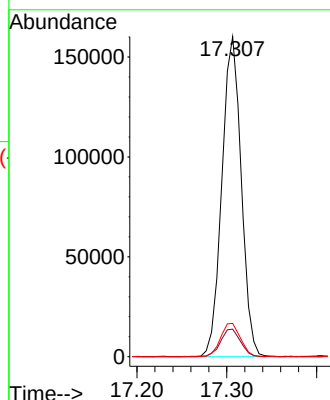
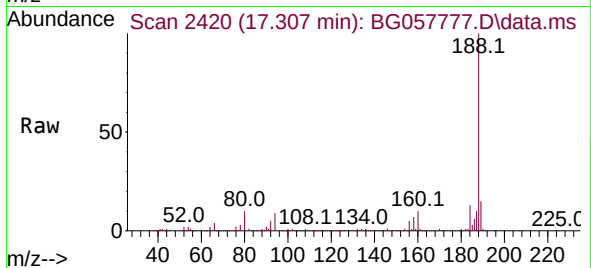
Tgt Ion:188 Resp: 239373

Ion Ratio Lower Upper

188 100

94 8.6 6.6 9.8

80 10.4 7.6 11.4



#71

Phenanthrene

Concen: 20.730 ng

RT: 17.348 min Scan# 2427

Delta R.T. 0.000 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

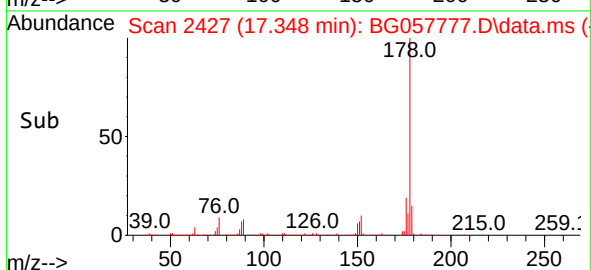
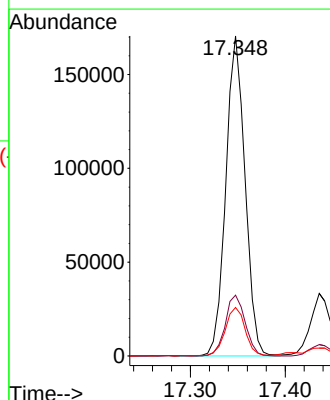
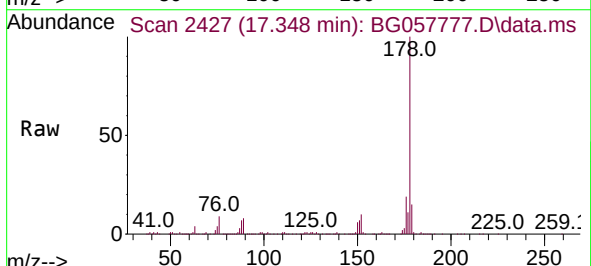
Tgt Ion:178 Resp: 240262

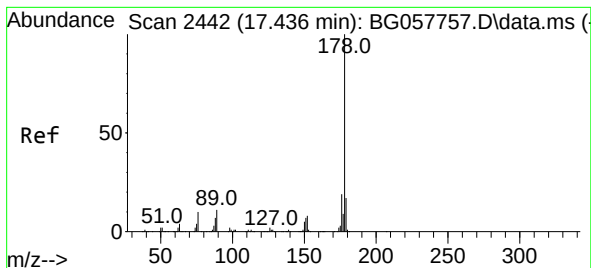
Ion Ratio Lower Upper

178 100

176 19.0 16.3 24.5

179 15.2 13.0 19.6





#72

Anthracene

Concen: 4.158 ng m

RT: 17.436 min Scan# 2442

Delta R.T. 0.000 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

Instrument :

BNA_G

ClientSampleId :

SB-01-4.0-6.0

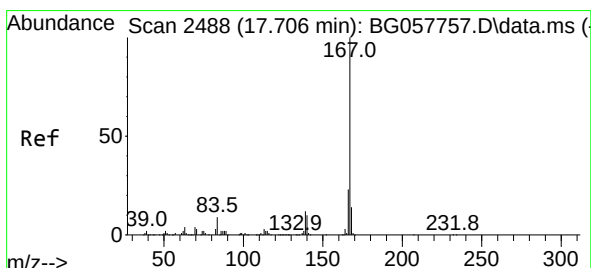
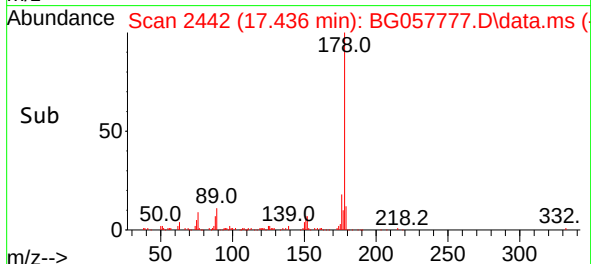
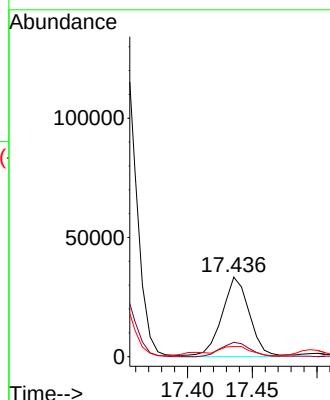
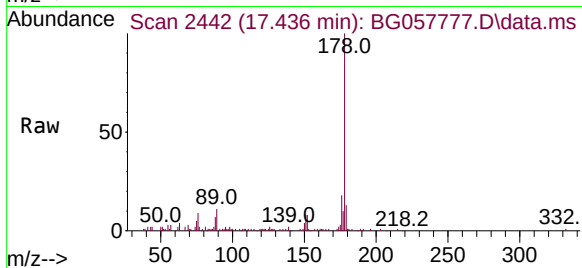
Tgt Ion:178 Resp: 49214

Ion Ratio Lower Upper

178 100

176 18.2 15.4 23.0

179 12.6 13.3 19.9#



#73

Carbazole

Concen: 2.210 ng

RT: 17.706 min Scan# 2488

Delta R.T. 0.000 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

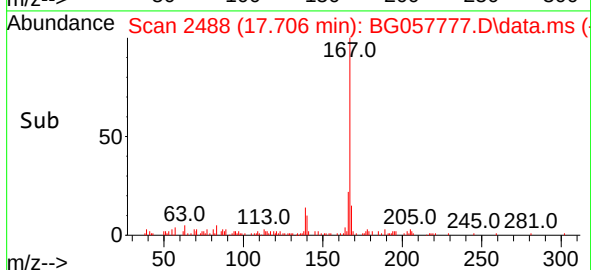
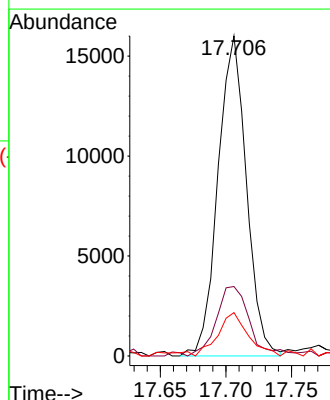
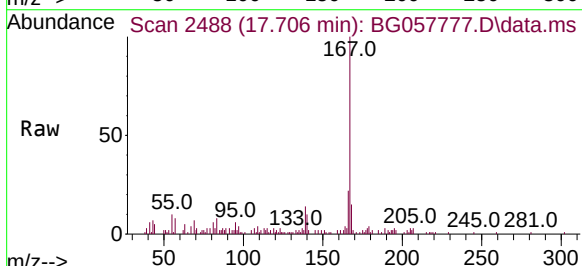
Tgt Ion:167 Resp: 24114

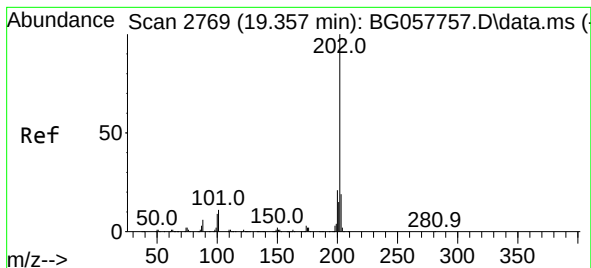
Ion Ratio Lower Upper

167 100

166 21.7 18.4 27.6

139 13.5 9.9 14.9





#75

Fluoranthene

Concen: 34.622 ng

RT: 19.357 min Scan# 21

Delta R.T. 0.000 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

Instrument :

BNA_G

ClientSampleId :

SB-01-4.0-6.0

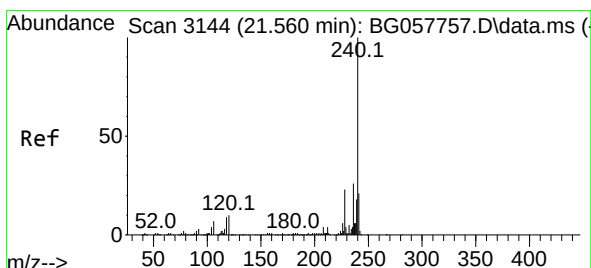
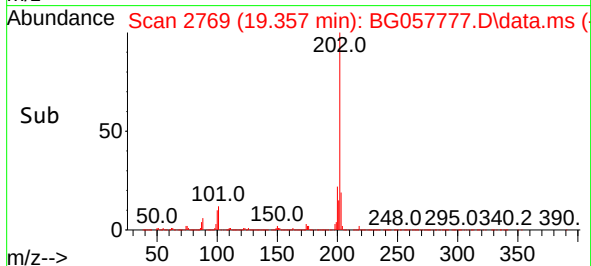
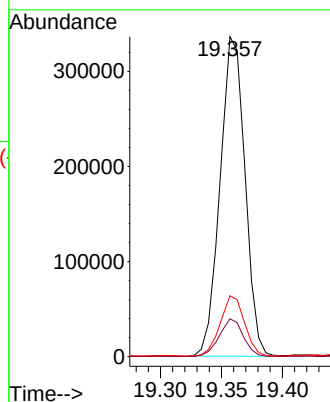
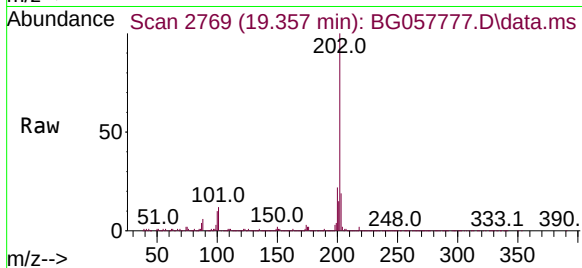
Tgt Ion:202 Resp: 478033

Ion Ratio Lower Upper

202 100

101 11.9 0.0 31.3

203 19.0 0.0 38.7



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.560 min Scan# 3144

Delta R.T. 0.000 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

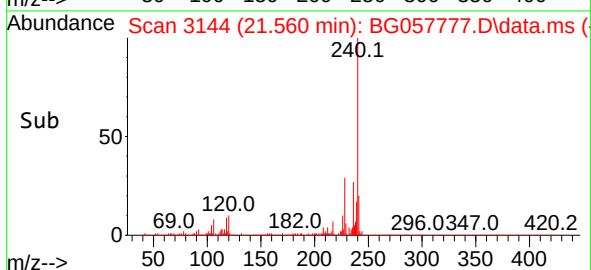
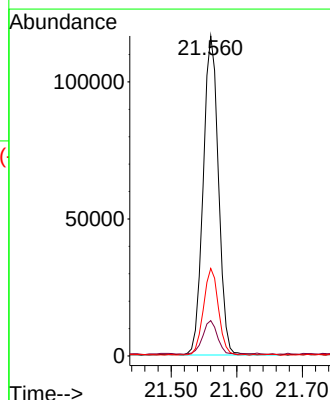
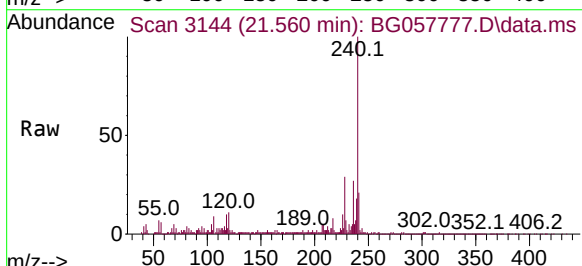
Tgt Ion:240 Resp: 189111

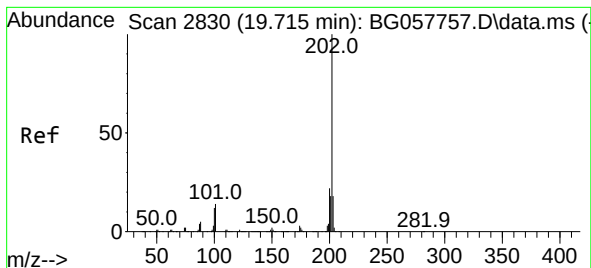
Ion Ratio Lower Upper

240 100

120 11.0 8.1 12.1

236 27.4 20.6 30.8





#78

Pyrene

Concen: 33.416 ng

RT: 19.721 min Scan# 2831

Delta R.T. 0.006 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

Instrument :

BNA_G

ClientSampleId :

SB-01-4.0-6.0

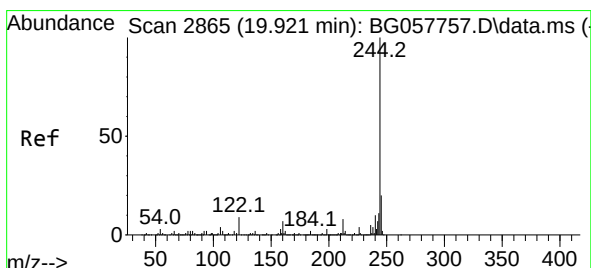
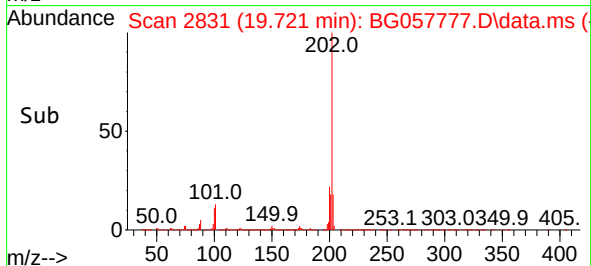
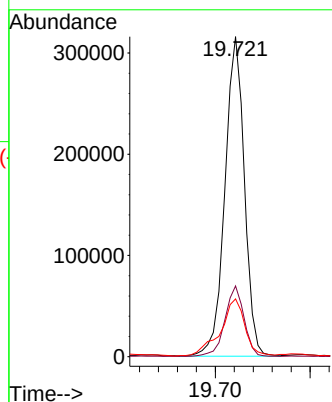
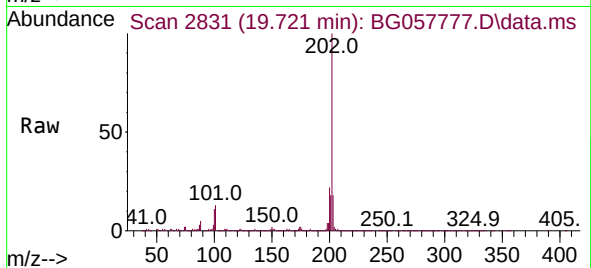
Tgt Ion:202 Resp: 450793

Ion Ratio Lower Upper

202 100

200 22.1 17.4 26.0

203 18.1 14.6 22.0



#79

Terphenyl-d14

Concen: 42.061 ng

RT: 19.921 min Scan# 2865

Delta R.T. 0.000 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

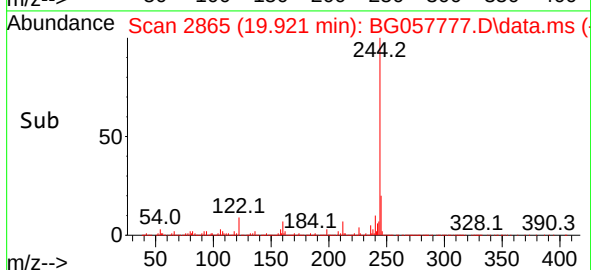
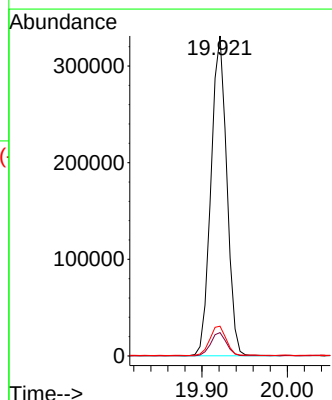
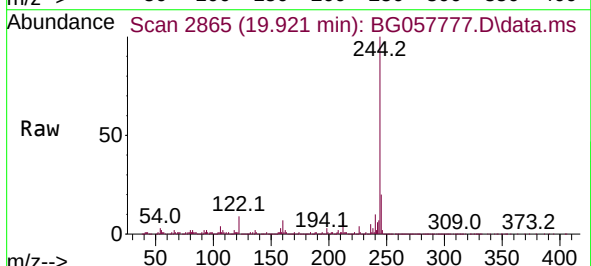
Tgt Ion:244 Resp: 426577

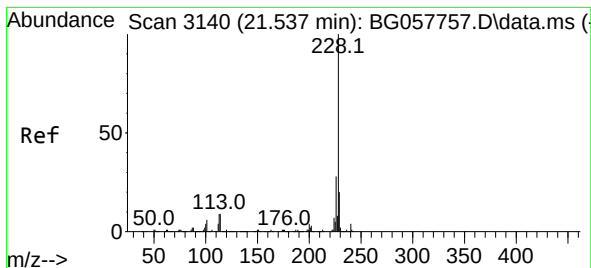
Ion Ratio Lower Upper

244 100

212 7.3 6.1 9.1

122 9.3 7.6 11.4





#81

Benzo(a)anthracene

Concen: 19.625 ng

RT: 21.543 min Scan# 3141

Delta R.T. 0.006 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

Instrument :

BNA_G

ClientSampleId :

SB-01-4.0-6.0

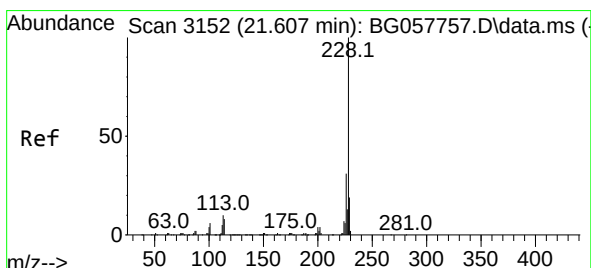
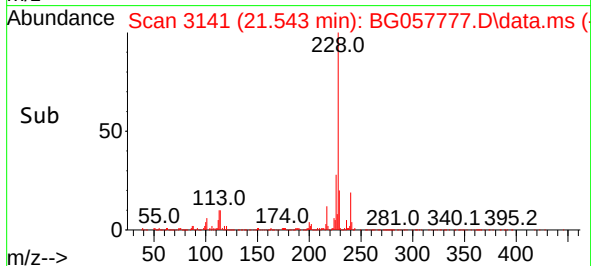
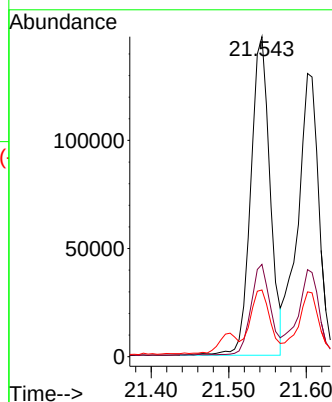
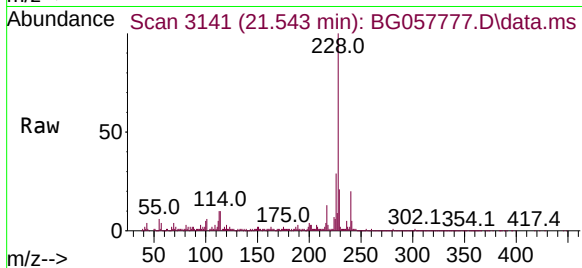
Tgt Ion:228 Resp: 254635

Ion Ratio Lower Upper

228 100

226 28.8 22.3 33.5

229 20.8 16.3 24.5



#83

Chrysene

Concen: 19.853 ng

RT: 21.601 min Scan# 3151

Delta R.T. -0.006 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

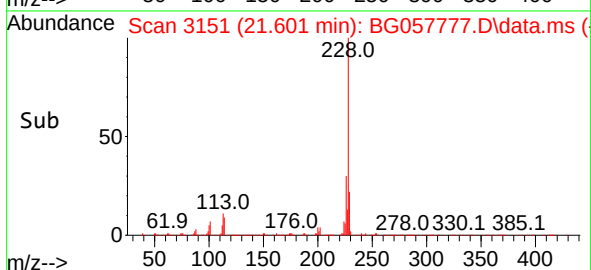
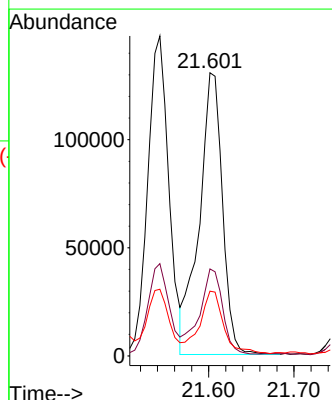
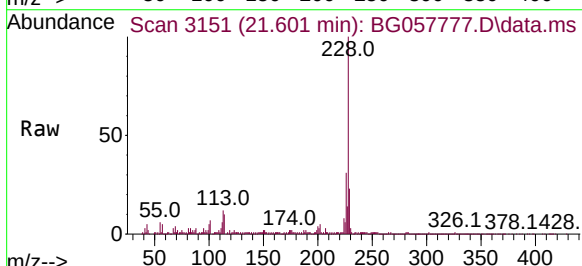
Tgt Ion:228 Resp: 247199

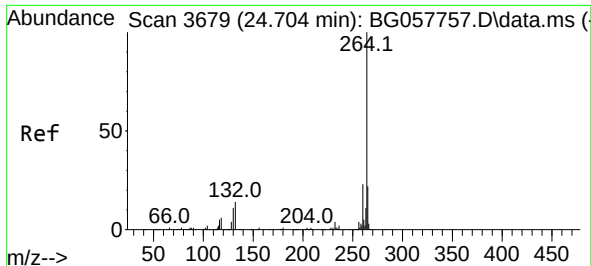
Ion Ratio Lower Upper

228 100

226 30.7 24.8 37.2

229 22.9 15.6 23.4



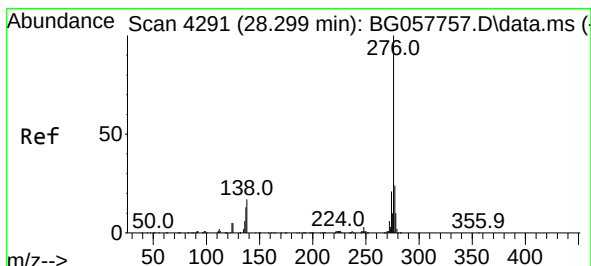
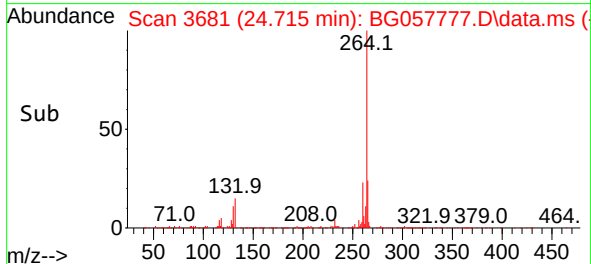
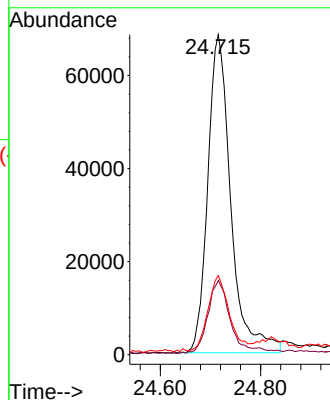
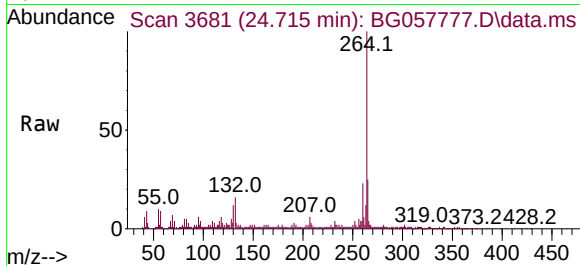


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.715 min Scan# 30
Delta R.T. 0.012 min
Lab File: BG057777.D
Acq: 20 Jun 2023 15:30

Instrument :
BNA_G
ClientSampleId :
SB-01-4.0-6.0

Tgt Ion:264 Resp: 218245

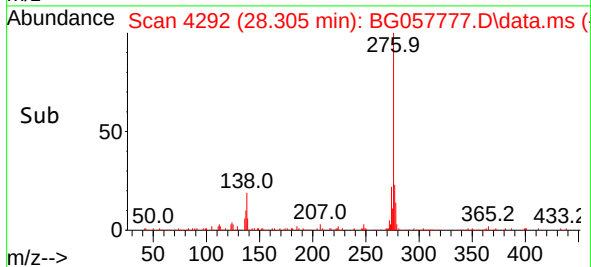
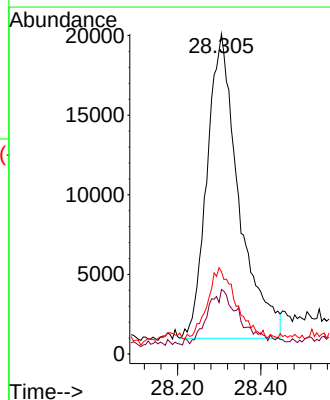
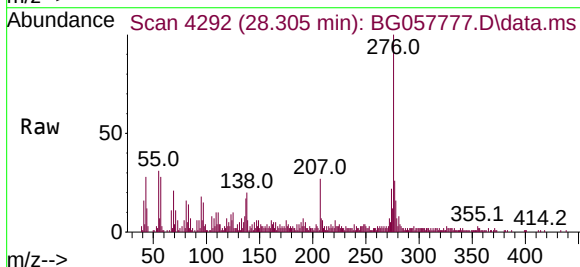
Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.5	27.7
265	24.7	17.4	26.2

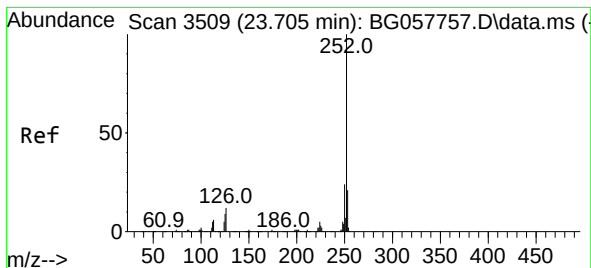


#87
Indeno(1,2,3-cd)pyrene
Concen: 7.121 ng
RT: 28.305 min Scan# 4292
Delta R.T. 0.006 min
Lab File: BG057777.D
Acq: 20 Jun 2023 15:30

Tgt Ion:276 Resp: 101612

Ion	Ratio	Lower	Upper
276	100		
138	17.3	11.3	16.9#
277	21.6	20.4	30.6





#88

Benzo(b)fluoranthene

Concen: 24.637 ng

RT: 23.717 min Scan# 3511

Delta R.T. 0.012 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

Instrument :

BNA_G

ClientSampleId :

SB-01-4.0-6.0

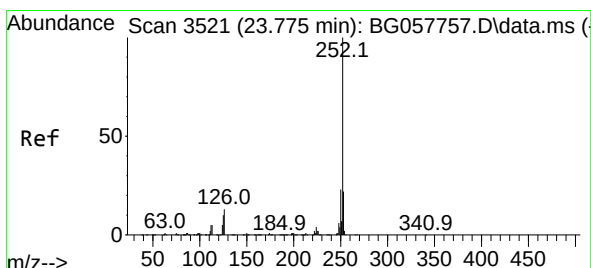
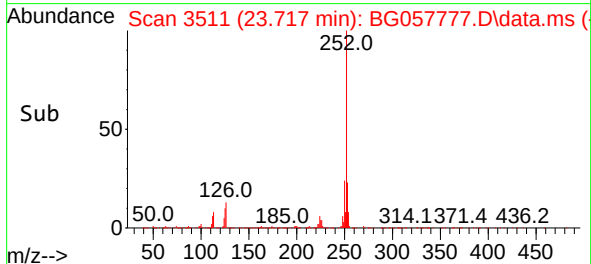
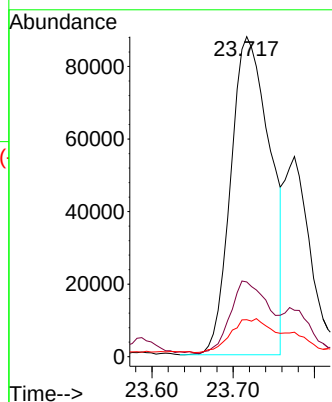
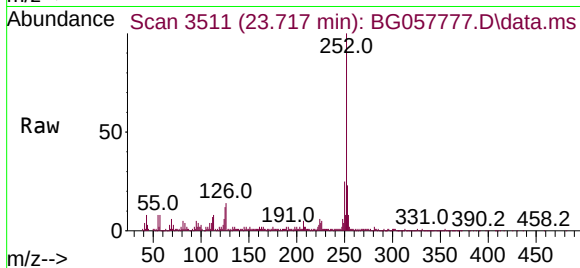
Tgt Ion:252 Resp: 294646

Ion Ratio Lower Upper

252 100

253 23.3 17.1 25.7

125 11.6 7.4 11.0#



#89

Benzo(k)fluoranthene

Concen: 10.363 ng m

RT: 23.775 min Scan# 3521

Delta R.T. 0.000 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

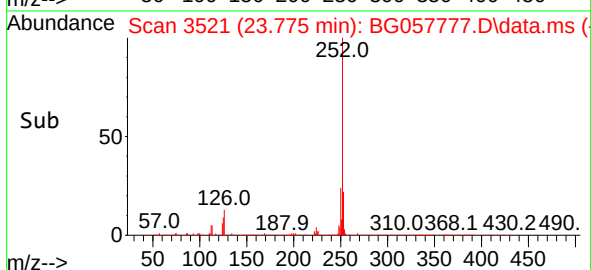
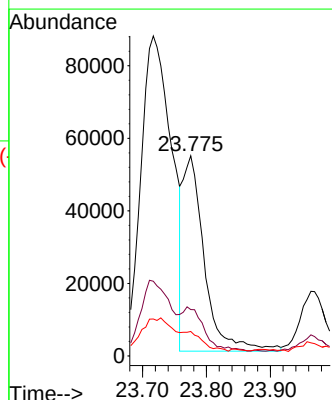
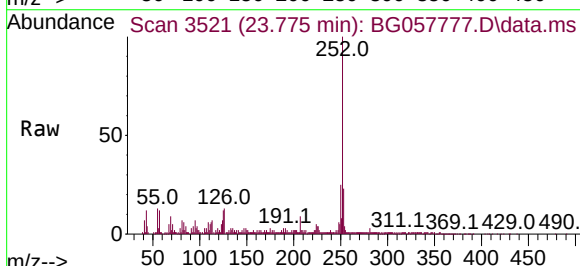
Tgt Ion:252 Resp: 126222

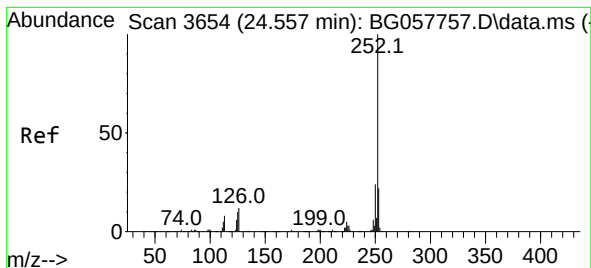
Ion Ratio Lower Upper

252 100

253 23.2 18.0 27.0

125 12.3 7.6 11.4#





#90

Benzo(a)pyrene

Concen: 17.454 ng

RT: 24.569 min Scan# 3

Delta R.T. 0.012 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

Instrument :

BNA_G

ClientSampleId :

SB-01-4.0-6.0

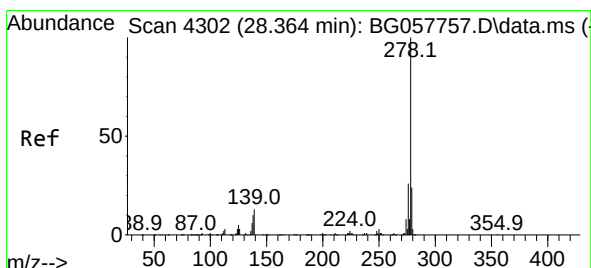
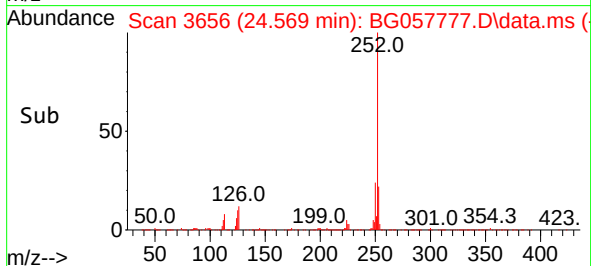
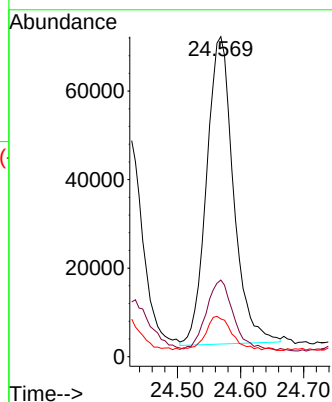
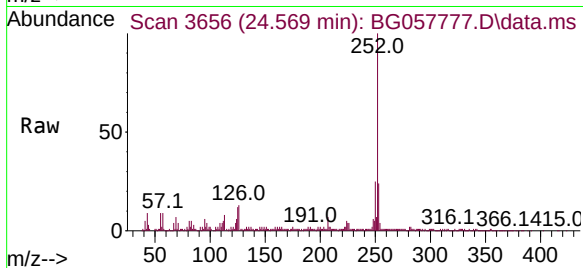
Tgt Ion:252 Resp: 205005

Ion Ratio Lower Upper

252 100

253 24.0 17.4 26.2

125 11.8 8.0 12.0



#91

Dibenzo(a,h)anthracene

Concen: 2.272 ng m

RT: 28.347 min Scan# 4299

Delta R.T. -0.018 min

Lab File: BG057777.D

Acq: 20 Jun 2023 15:30

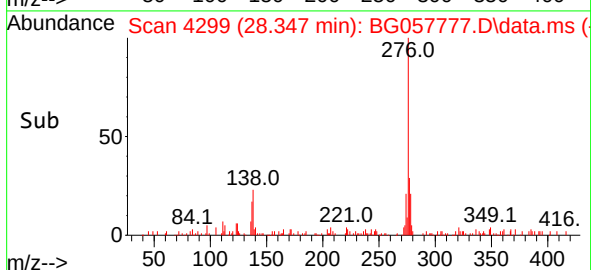
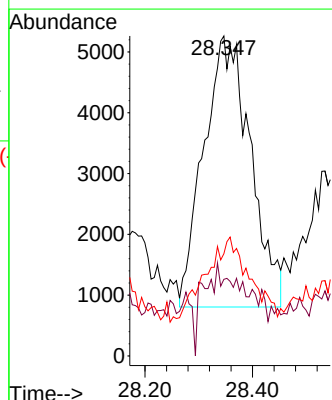
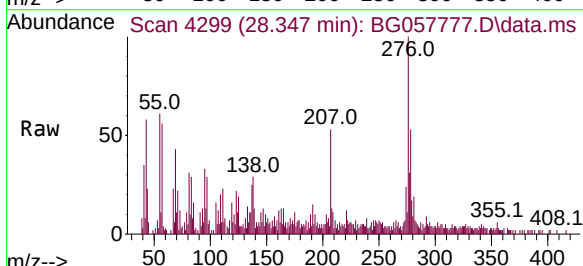
Tgt Ion:278 Resp: 26894

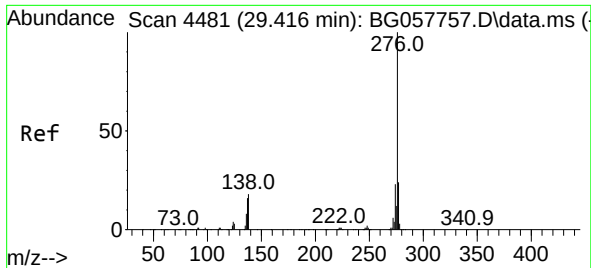
Ion Ratio Lower Upper

278 100

139 23.9 10.8 16.2#

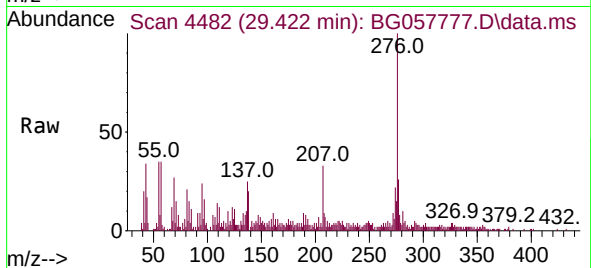
279 31.9 19.0 28.4#





#92
 Benzo(g,h,i)perylene
 Concen: 7.399 ng m
 RT: 29.422 min Scan# 44
 Delta R.T. 0.006 min
 Lab File: BG057777.D
 Acq: 20 Jun 2023 15:30

Instrument :
 BNA_G
 ClientSampleId :
 SB-01-4.0-6.0



Tgt Ion:	276	Resp:	87706
Ion	Ratio	Lower	Upper
276	100		
277	26.1	19.4	29.0
138	19.5	14.2	21.4

