

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG021323\
 Data File : BG056621.D
 Acq On : 13 Feb 2023 16:00
 Operator : CG/JU
 Sample : 01529-05
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Feb 14 02:06:28 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 10 22:46:08 2023
 Response via : Initial Calibration

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

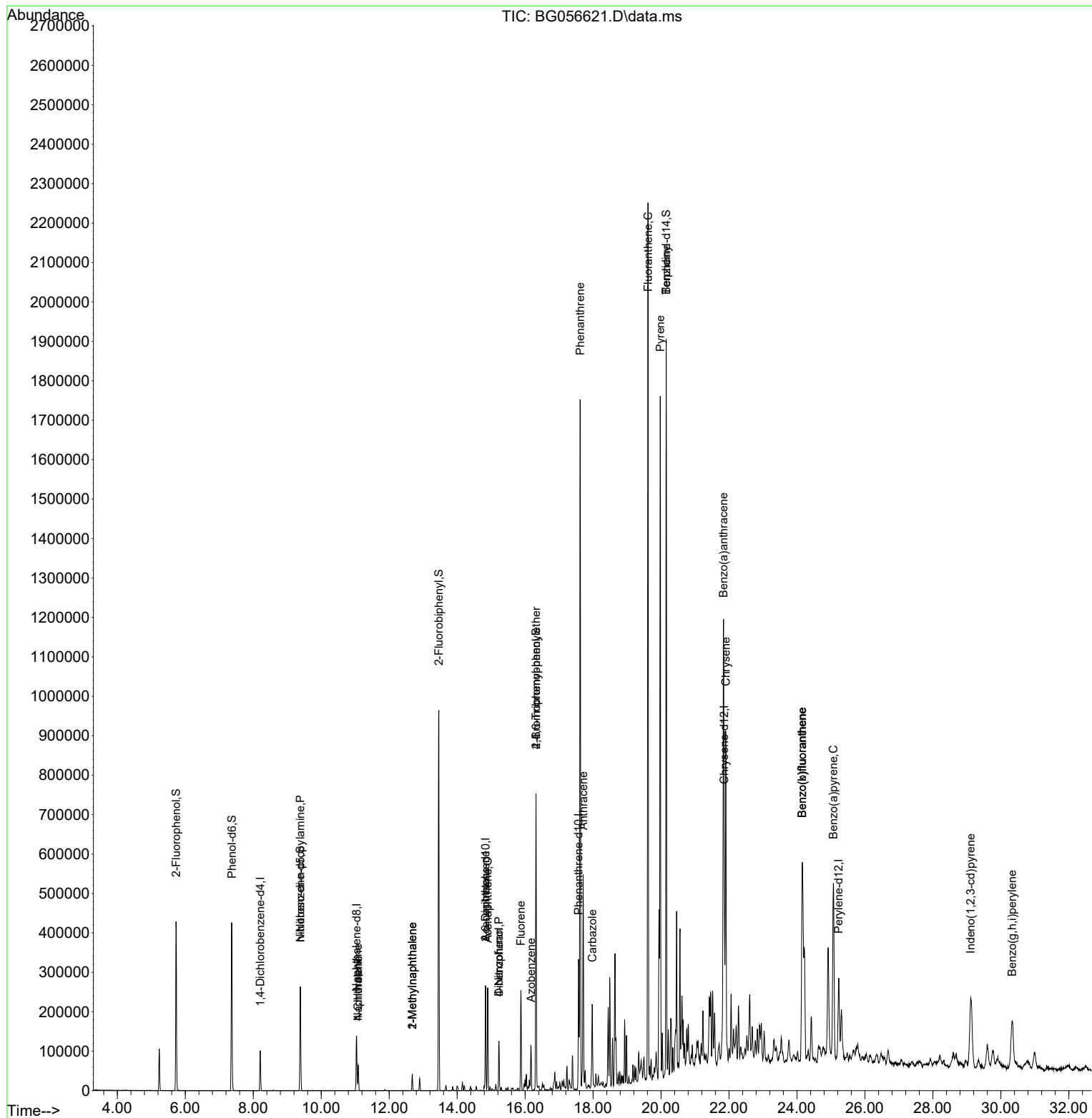
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.209	152	35229	20.000	ng	0.00
21) Naphthalene-d8	11.041	136	127268	20.000	ng	0.00
39) Acenaphthene-d10	14.836	164	97420	20.000	ng	0.00
64) Phenanthrene-d10	17.574	188	230950	20.000	ng	-0.01
76) Chrysene-d12	21.858	240	222560	20.000	ng	0.00
86) Perylene-d12	25.230	264	244799	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.729	112	246468	128.700	ng	0.00
7) Phenol-d6	7.369	99	339095	119.505	ng	0.00
23) Nitrobenzene-d5	9.384	82	186112	83.040	ng	0.00
42) 2,4,6-Tribromophenol	16.323	330	149696	115.583	ng	0.00
45) 2-Fluorobiphenyl	13.462	172	572081	81.415	ng	0.00
79) Terphenyl-d14	20.154	244	961228	75.857	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	7.375	77	534	Below Cal	#	1
19) n-Nitroso-di-n-propyla...	9.384	70	22886	13.996	ng	# 73
31) Naphthalene	11.088	128	61951	9.223	ng	98
33) 4-Chloroaniline	11.088	127	8174	2.607	ng	# 45
37) 2-Methylnaphthalene	12.680	142	21646	3.909	ng	97
38) 1-Methylnaphthalene	12.680	142	21646	4.185	ng	95
51) 2,6-Dinitrotoluene	14.836	165	14657	8.528	ng	# 36
52) Acenaphthene	14.901	154	99000	18.578	ng	97
55) Dibenzofuran	15.230	168	91375	9.562	ng	98
56) 4-Nitrophenol	15.230	139	28785	25.281	ng	# 11
58) Fluorene	15.876	166	122635	16.127	ng	96
63) Azobenzene	16.176	77	22083	4.336	ng	# 1
67) 4-Bromophenyl-phenylether	16.323	248	11635	3.935	ng	# 1
71) Phenanthrene	17.621	178	1214467	100.473	ng	99
72) Anthracene	17.710	178	375409	30.255	ng	99
73) Carbazole	17.980	167	150220	14.215	ng	99
75) Fluoranthene	19.619	202	1505326	98.672	ng	99
77) Benzidine	20.154	184	13409	2.226	ng	# 93
78) Pyrene	19.977	202	1211235	76.520	ng	98
81) Benzo(a)anthracene	21.834	228	764995	49.166	ng	99
83) Chrysene	21.905	228	610303	41.751	ng	97
87) Indeno(1,2,3-cd)pyrene	29.114	276	332984	18.582	ng	# 94
88) Benzo(b)fluoranthene	24.155	252	762511	50.183	ng	98
89) Benzo(k)fluoranthene	24.155	252	762511	49.705	ng	97
90) Benzo(a)pyrene	25.072	252	554091	37.020	ng	100
92) Benzo(g,h,i)perylene	30.330	276	282386	19.457	ng	99

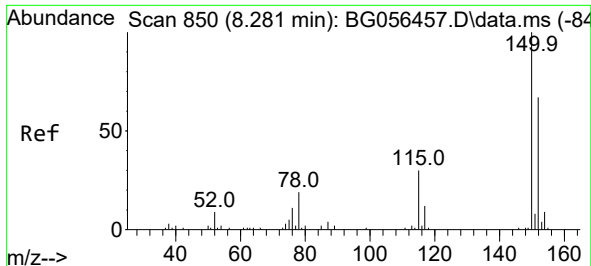
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG021323\
Data File : BG056621.D
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ClientSampleId :

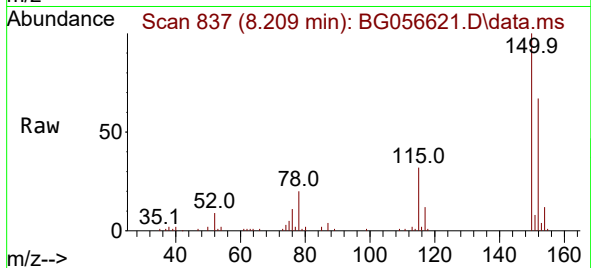
Quant Time: Feb 14 02:06:28 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
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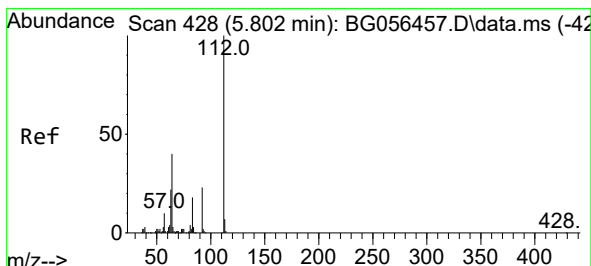
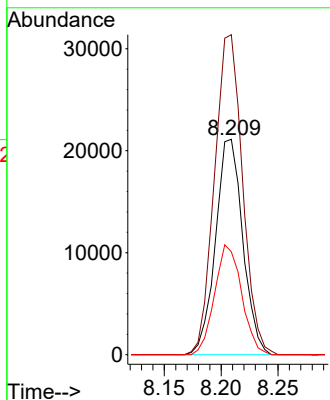
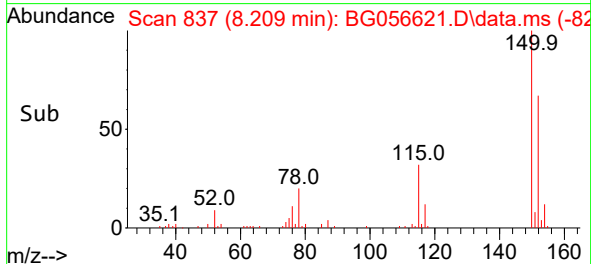


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.209 min Scan# 81
Delta R.T. 0.002 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

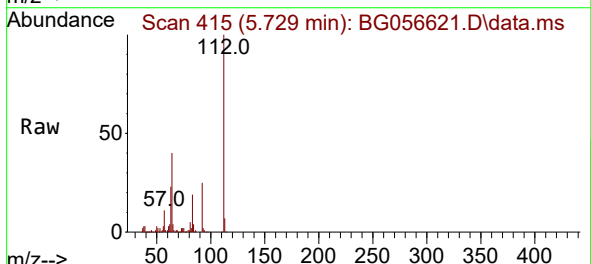
Instrument :
BNA_G
ClientSampleId :



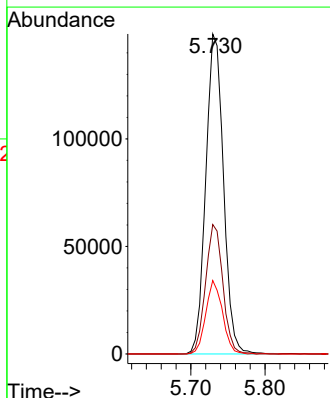
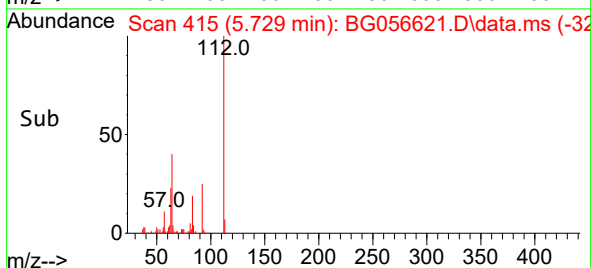
Tgt Ion:152 Resp: 35229
Ion Ratio Lower Upper
152 100
150 148.6 120.2 180.4
115 47.8 36.3 54.5

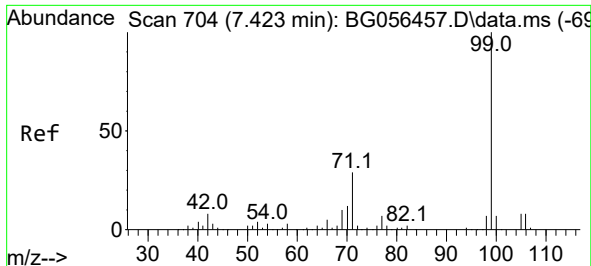


#5
2-Fluorophenol
Concen: 128.700 ng
RT: 5.729 min Scan# 415
Delta R.T. 0.002 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00



Tgt Ion:112 Resp: 246468
Ion Ratio Lower Upper
112 100
64 40.5 31.9 47.9
63 23.0 17.4 26.0

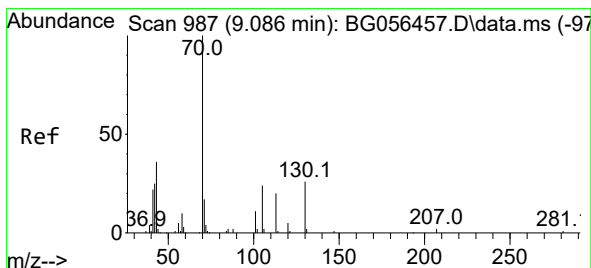
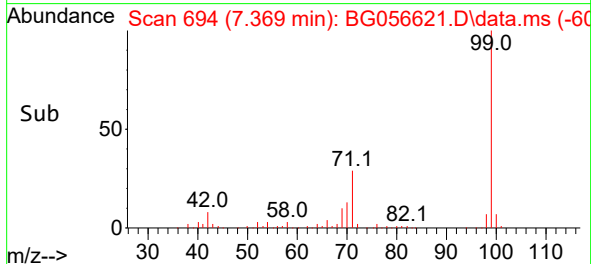
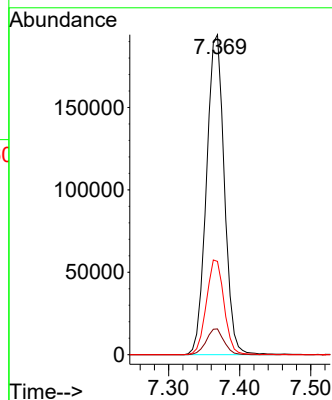
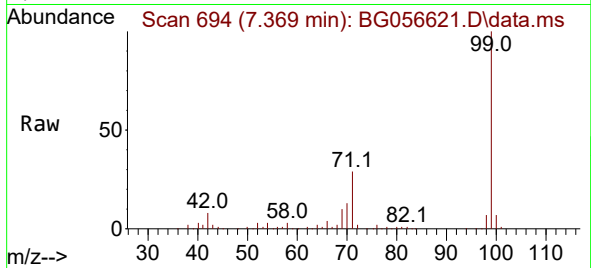




#7
Phenol-d6
Concen: 119.505 ng
RT: 7.369 min Scan# 61
Delta R.T. 0.002 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

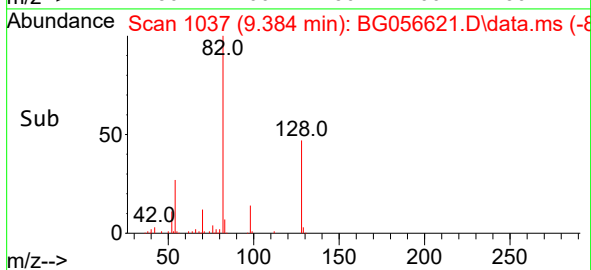
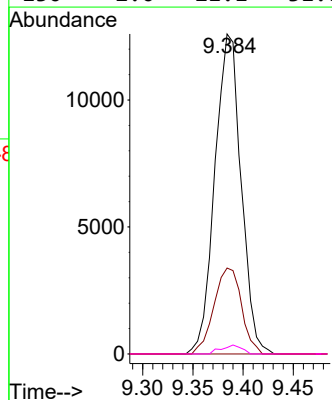
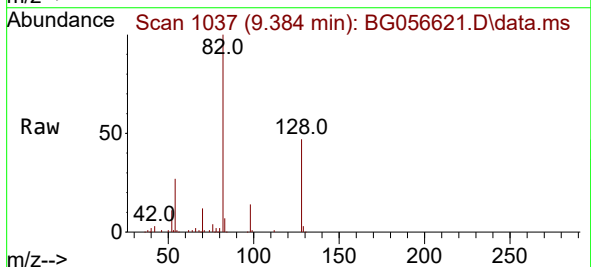
Instrument :
BNA_G
ClientSampleId :

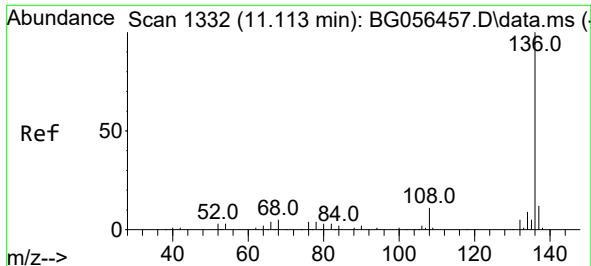
Tgt Ion: 99 Resp: 339095
Ion Ratio Lower Upper
99 100
42 8.0 6.6 10.0
71 29.1 23.4 35.0



#19
n-Nitroso-di-n-propylamine
Concen: 13.996 ng
RT: 9.384 min Scan# 1037
Delta R.T. 0.366 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

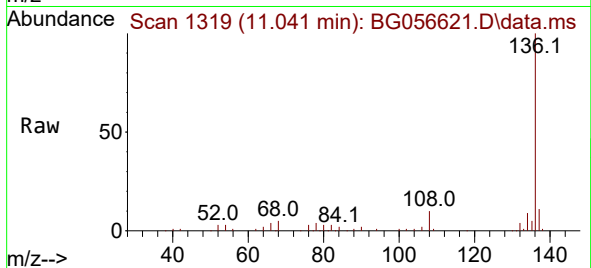
Tgt Ion: 70 Resp: 22886
Ion Ratio Lower Upper
70 100
42 26.8 20.2 30.4
101 0.0 9.1 13.7#
130 2.0 21.1 31.7#



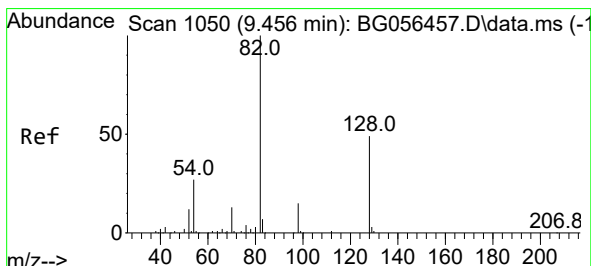
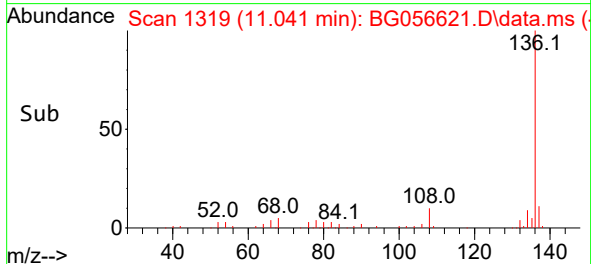
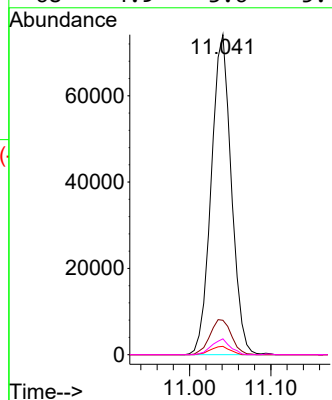


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.041 min Scan# 11
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

Instrument :
BNA_G
ClientSampleId :

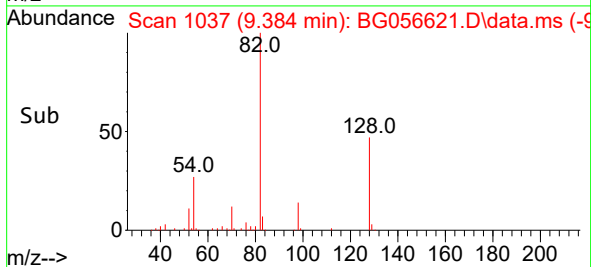
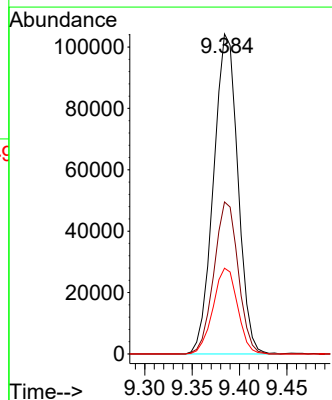
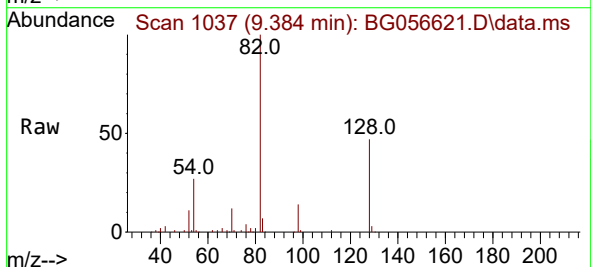


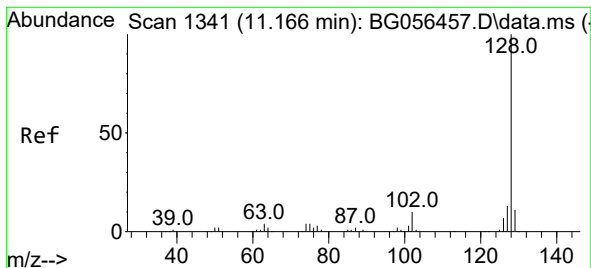
Tgt Ion:136 Resp: 127268
Ion Ratio Lower Upper
136 100
137 10.8 9.4 14.0
54 2.6 2.2 3.4
68 4.9 3.6 5.4



#23
Nitrobenzene-d5
Concen: 83.040 ng
RT: 9.384 min Scan# 1037
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

Tgt Ion: 82 Resp: 186112
Ion Ratio Lower Upper
82 100
128 47.5 39.4 59.2
54 26.8 21.4 32.2





#31

Naphthalene

Concen: 9.223 ng

RT: 11.088 min Scan# 11

Delta R.T. -0.010 min

Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

Instrument :

BNA_G

ClientSampleId :

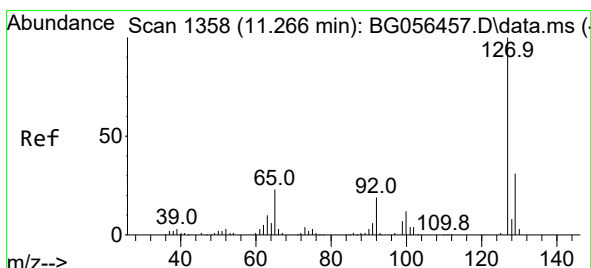
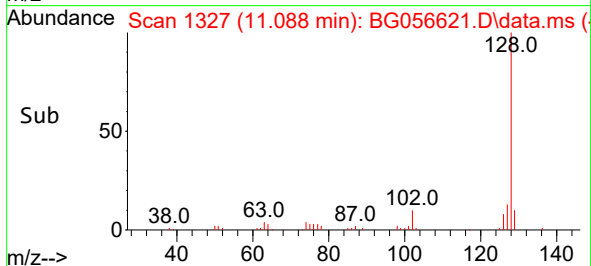
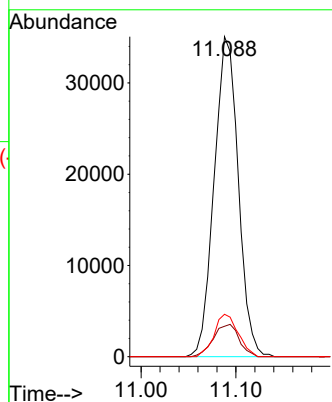
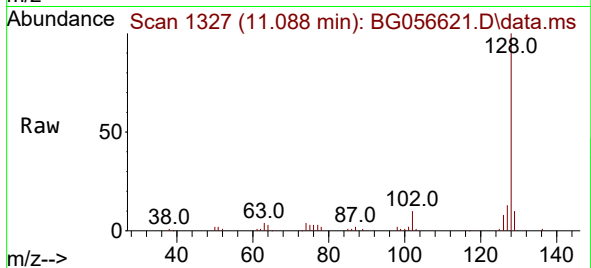
Tgt Ion:128 Resp: 61951

Ion Ratio Lower Upper

128 100

129 9.5 8.7 13.1

127 13.3 10.4 15.6



#33

4-Chloroaniline

Concen: 2.607 ng

RT: 11.088 min Scan# 1327

Delta R.T. -0.116 min

Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

Tgt Ion:127 Resp: 8174

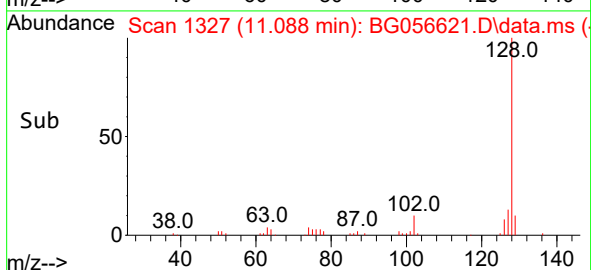
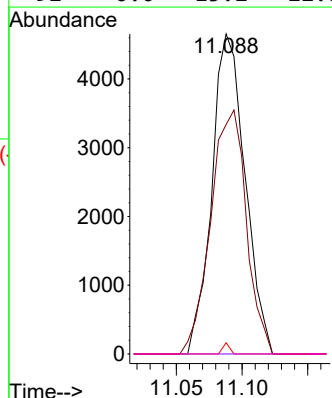
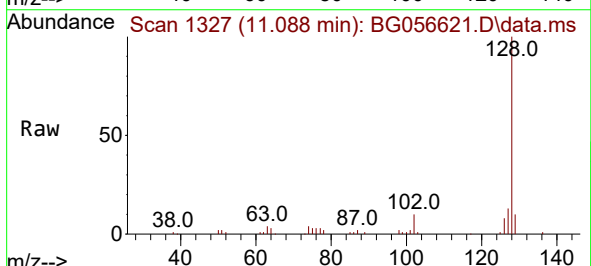
Ion Ratio Lower Upper

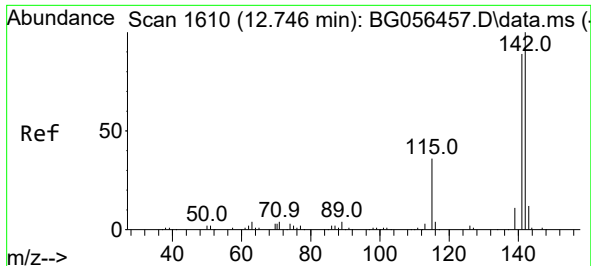
127 100

129 71.7 25.0 37.6#

65 3.5 18.5 27.7#

92 0.0 15.2 22.8#





#37

2-Methylnaphthalene

Concen: 3.909 ng

RT: 12.680 min Scan# 1598

Delta R.T. -0.004 min

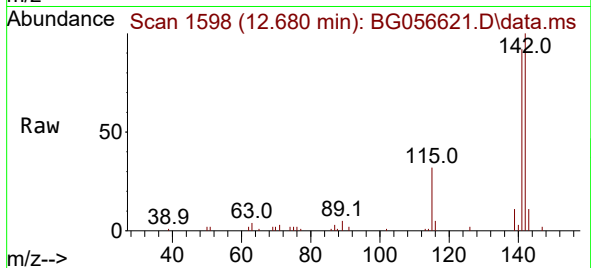
Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

Instrument :

BNA_G

ClientSampleId :



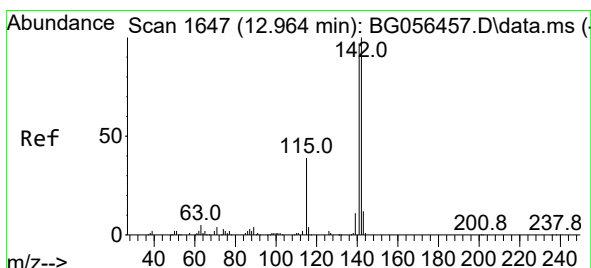
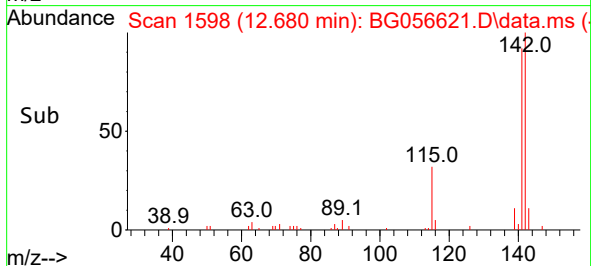
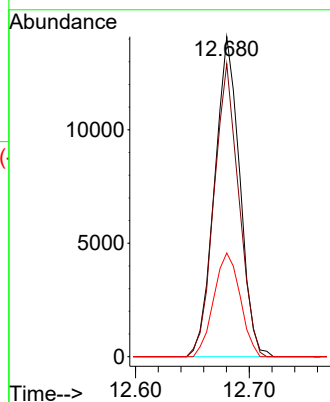
Tgt Ion:142 Resp: 21646

Ion Ratio Lower Upper

142 100

141 91.5 71.4 107.0

115 32.4 28.4 42.6



#38

1-Methylnaphthalene

Concen: 4.185 ng

RT: 12.680 min Scan# 1598

Delta R.T. -0.222 min

Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

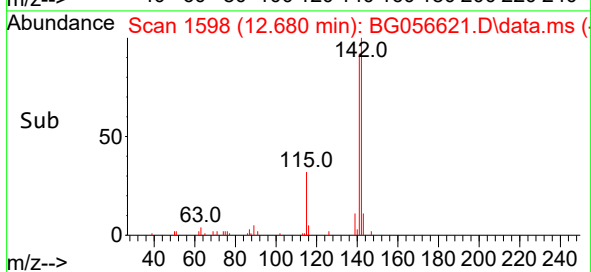
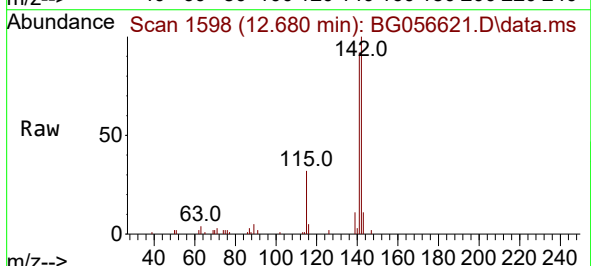
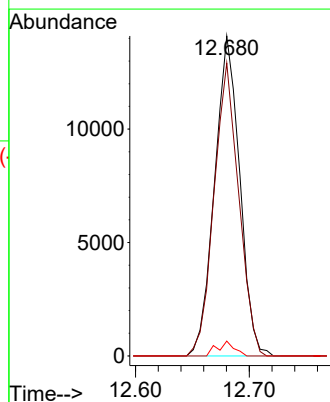
Tgt Ion:142 Resp: 21646

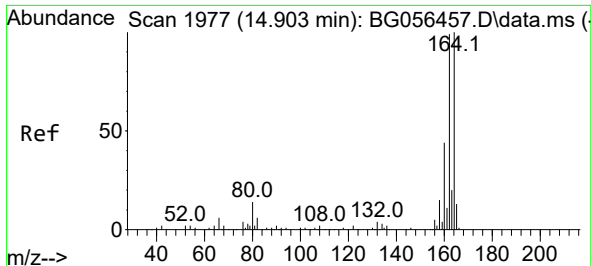
Ion Ratio Lower Upper

142 100

141 91.5 77.7 116.5

116 4.7 3.4 5.2

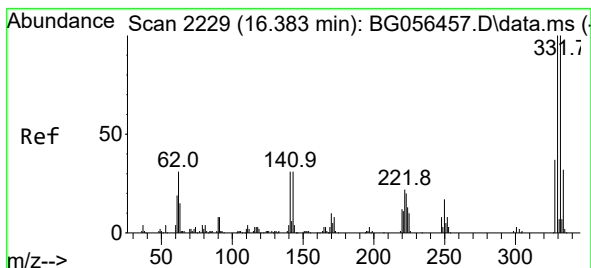
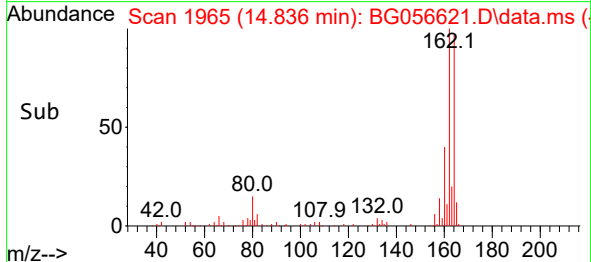
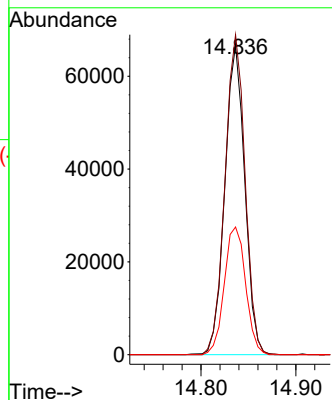
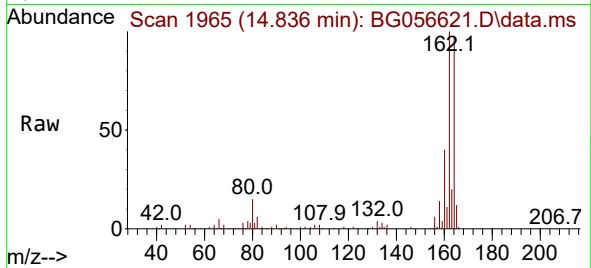




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.836 min Scan# 1977
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

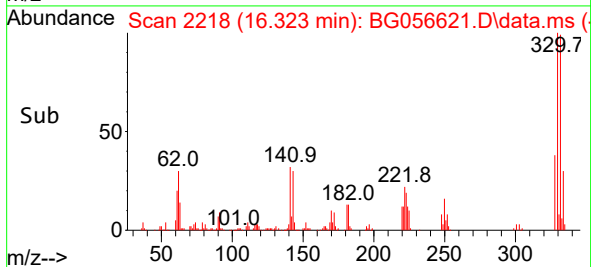
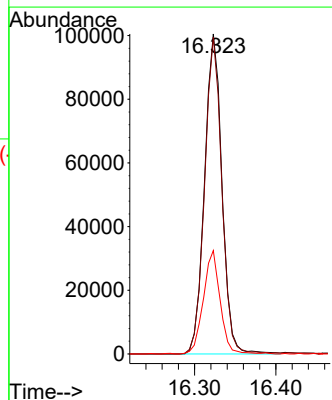
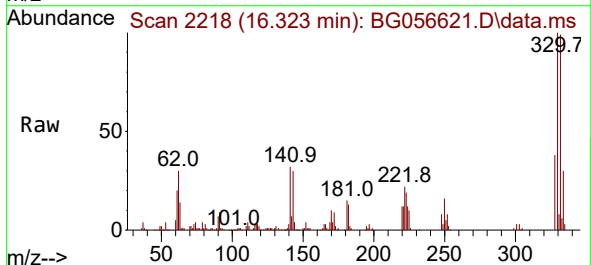
Instrument :
BNA_G
ClientSampleId :

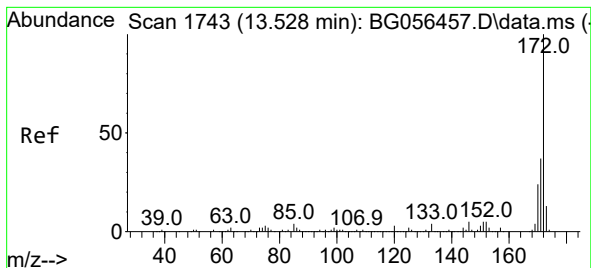
Tgt Ion:164 Resp: 97420
Ion Ratio Lower Upper
164 100
162 103.4 79.6 119.4
160 41.3 34.9 52.3



#42
2,4,6-Tribromophenol
Concen: 115.583 ng
RT: 16.323 min Scan# 2218
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

Tgt Ion:330 Resp: 149696
Ion Ratio Lower Upper
330 100
332 97.3 79.0 118.6
141 31.0 24.2 36.4





#45

2-Fluorobiphenyl

Concen: 81.415 ng

RT: 13.462 min Scan# 1

Delta R.T. -0.004 min

Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

Instrument :

BNA_G

ClientSampleId :

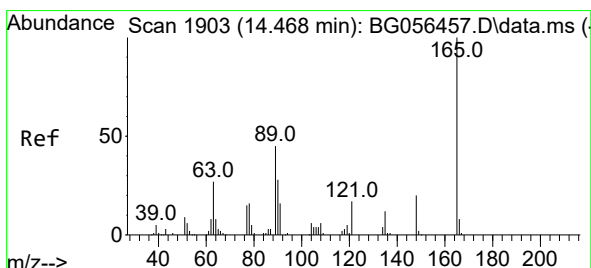
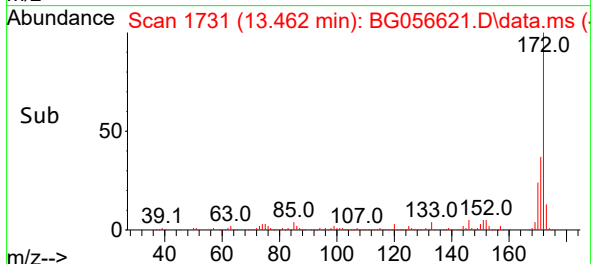
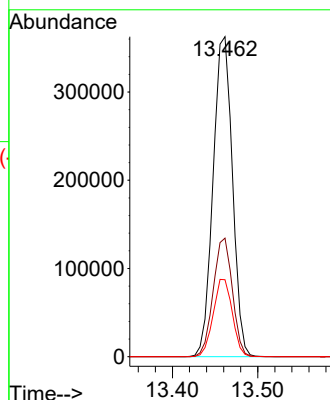
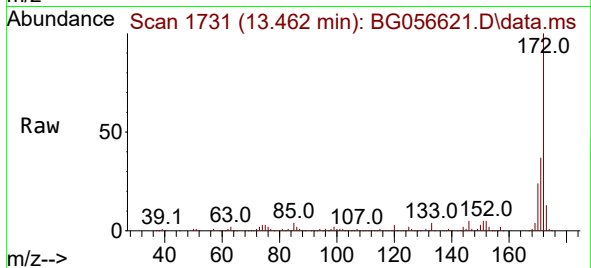
Tgt Ion:172 Resp: 572081

Ion Ratio Lower Upper

172 100

171 37.1 29.5 44.3

170 24.0 19.2 28.8



#51

2,6-Dinitrotoluene

Concen: 8.528 ng

RT: 14.836 min Scan# 1965

Delta R.T. 0.419 min

Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

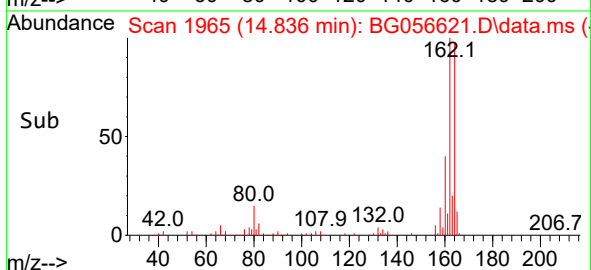
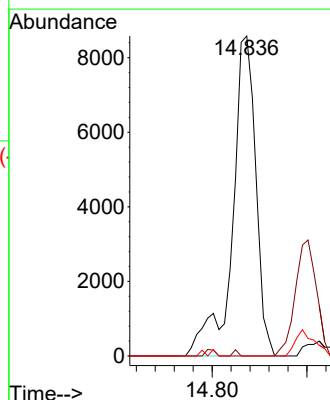
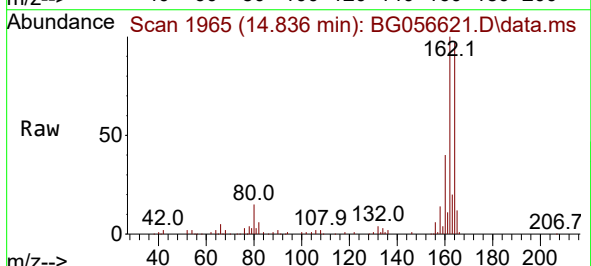
Tgt Ion:165 Resp: 14657

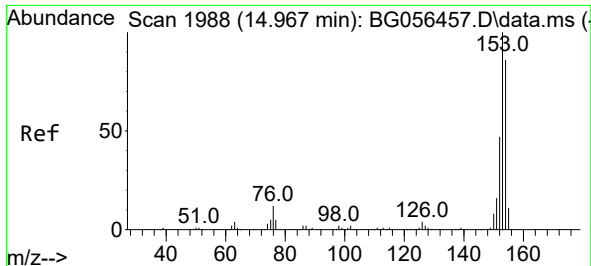
Ion Ratio Lower Upper

165 100

63 0.0 26.9 40.3#

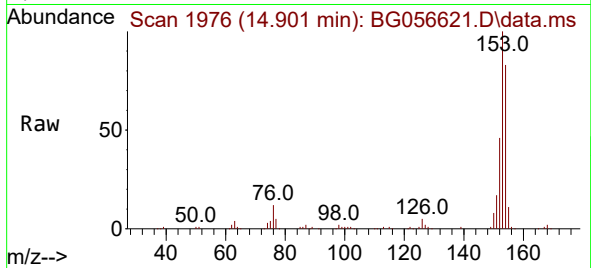
89 0.0 35.6 53.4#



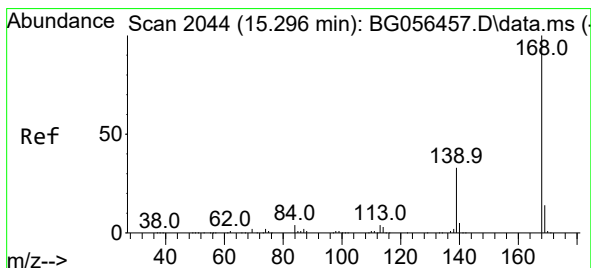
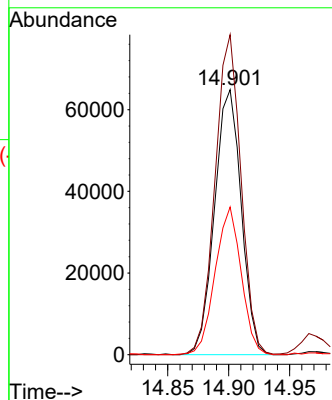
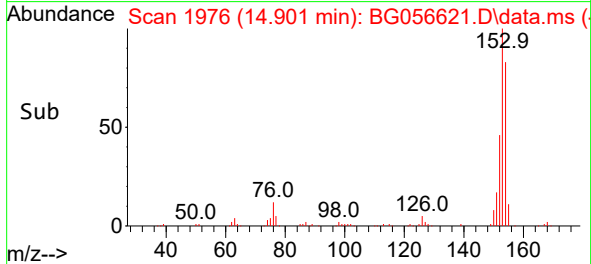


#52
Acenaphthene
Concen: 18.578 ng
RT: 14.901 min Scan# 1988
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

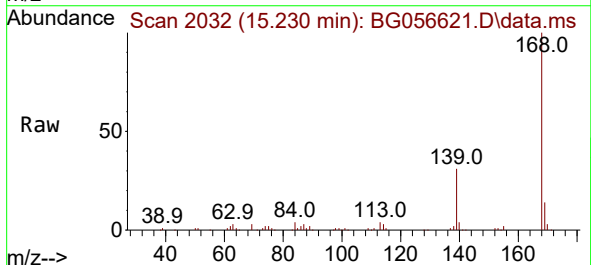
Instrument :
BNA_G
ClientSampleId :



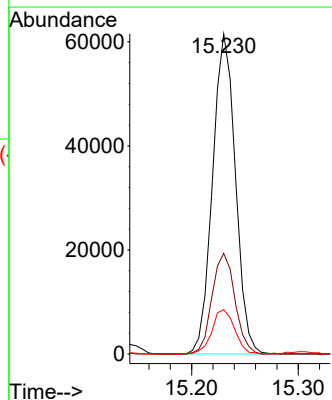
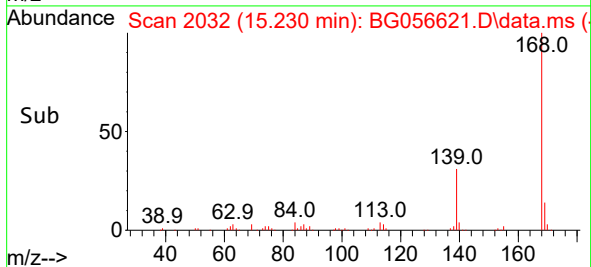
Tgt Ion:154 Resp: 99000
Ion Ratio Lower Upper
154 100
153 120.8 93.4 140.0
152 55.7 43.4 65.2

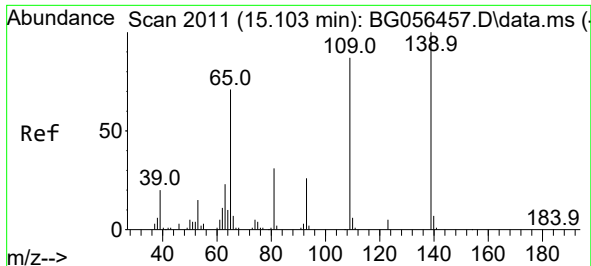


#55
Dibenzofuran
Concen: 9.562 ng
RT: 15.230 min Scan# 2032
Delta R.T. -0.010 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00



Tgt Ion:168 Resp: 91375
Ion Ratio Lower Upper
168 100
139 31.5 26.2 39.2
169 13.8 11.0 16.6

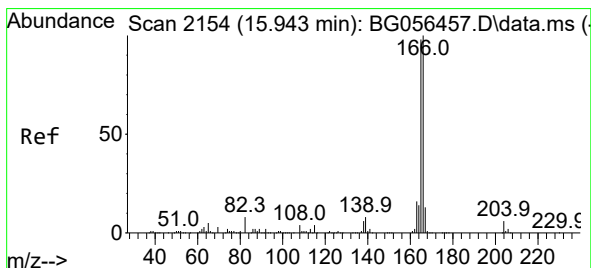
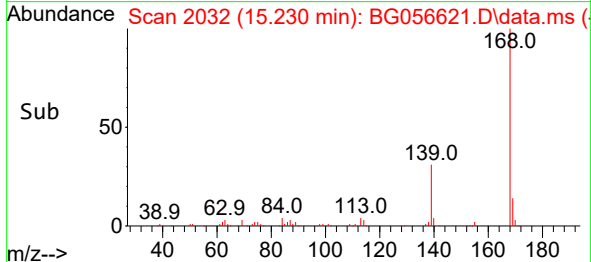
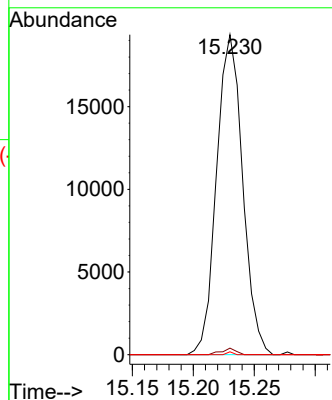
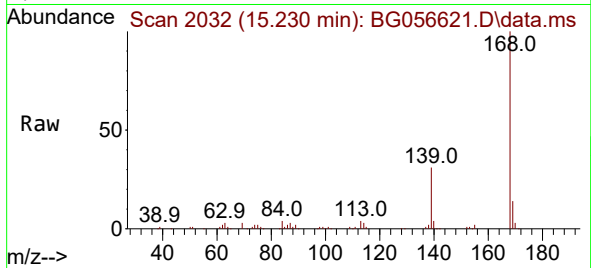




#56
4-Nitrophenol
Concen: 25.281 ng
RT: 15.230 min Scan# 2011
Delta R.T. 0.160 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

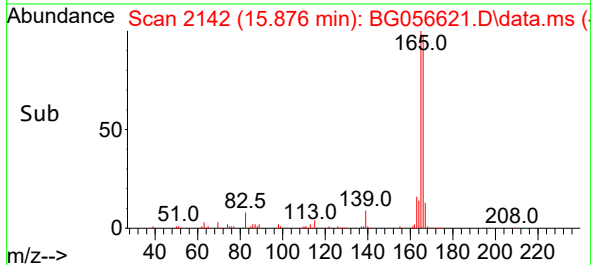
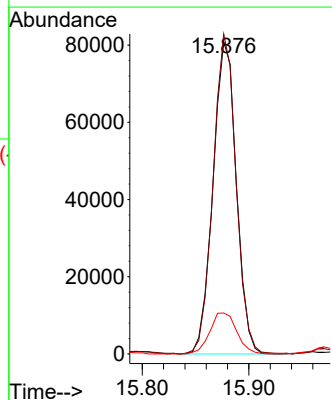
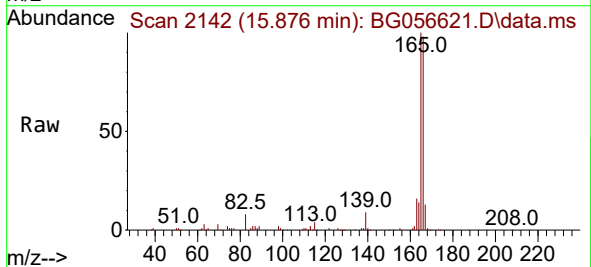
Instrument :
BNA_G
ClientSampleId :

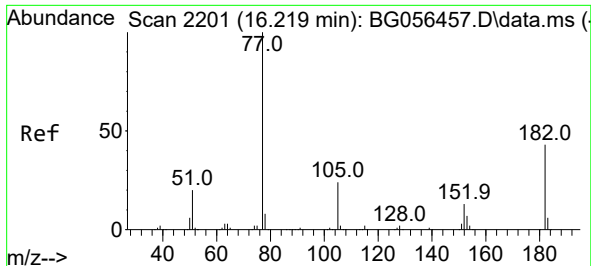
Tgt Ion:139 Resp: 28785
Ion Ratio Lower Upper
139 100
109 2.1 67.5 107.5#
65 0.9 50.7 90.7#



#58
Fluorene
Concen: 16.127 ng
RT: 15.876 min Scan# 2142
Delta R.T. -0.010 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

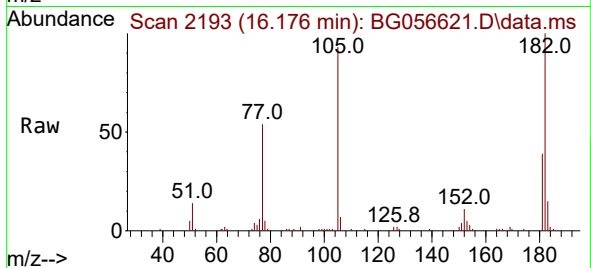
Tgt Ion:166 Resp: 122635
Ion Ratio Lower Upper
166 100
165 102.5 78.8 118.2
167 13.1 10.6 15.8



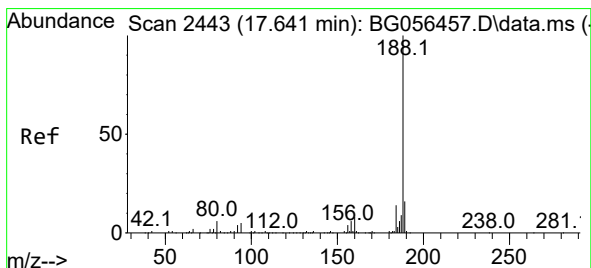
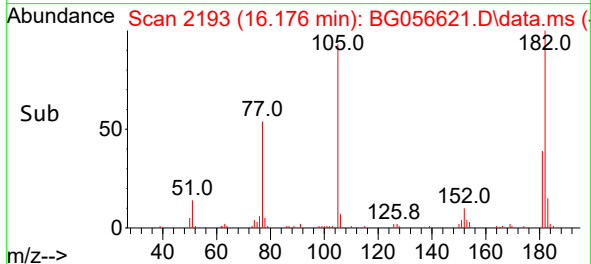
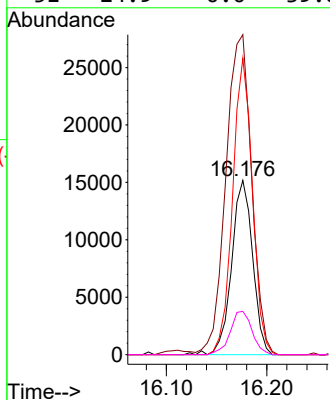


#63
Azobenzene
Concen: 4.336 ng
RT: 16.176 min Scan# 2193
Delta R.T. 0.019 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

Instrument :
BNA_G
ClientSampleId :

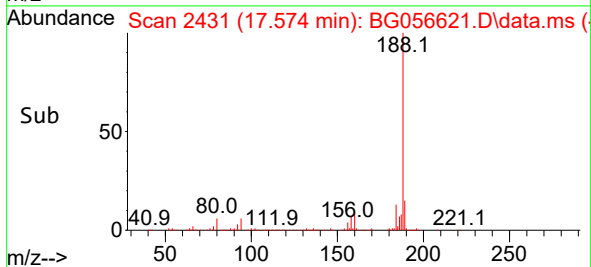
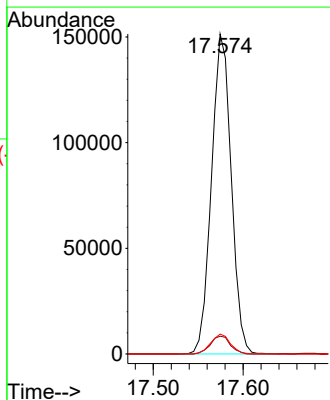
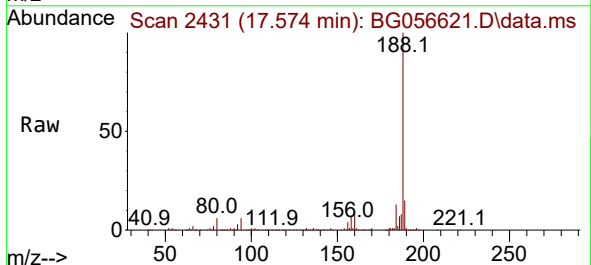


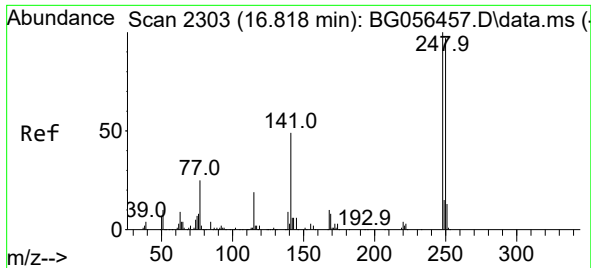
Tgt Ion: 77 Resp: 22083
Ion Ratio Lower Upper
77 100
182 183.7 23.1 63.1#
105 170.1 4.2 44.2#
51 24.9 0.0 39.8



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.574 min Scan# 2431
Delta R.T. -0.010 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

Tgt Ion: 188 Resp: 230950
Ion Ratio Lower Upper
188 100
94 5.6 4.1 6.1
80 6.2 5.0 7.4

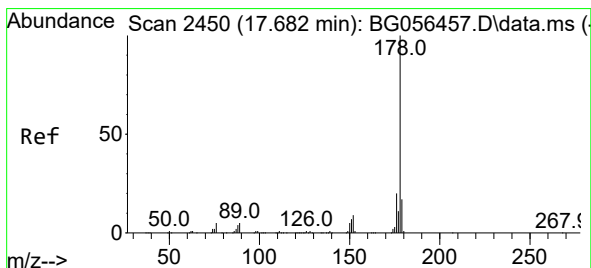
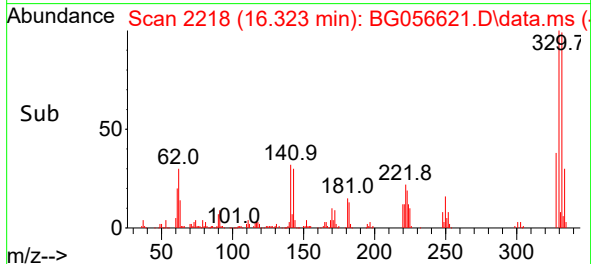
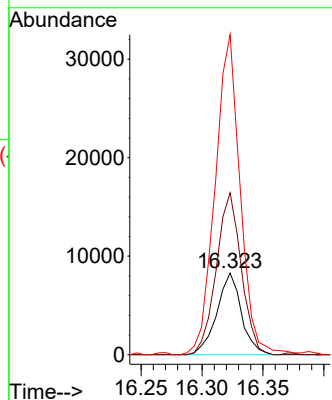
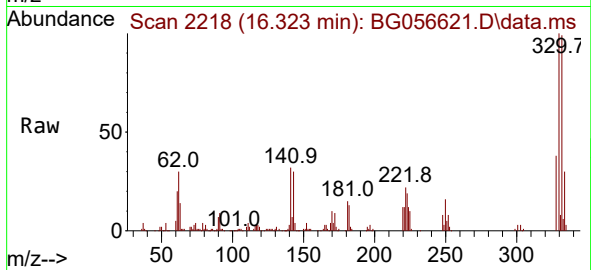




#67
4-Bromophenyl-phenylether
Concen: 3.935 ng
RT: 16.323 min Scan# 21
Delta R.T. -0.433 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

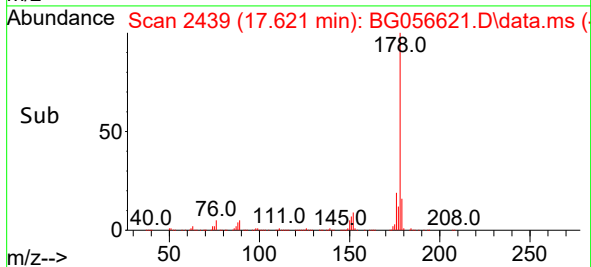
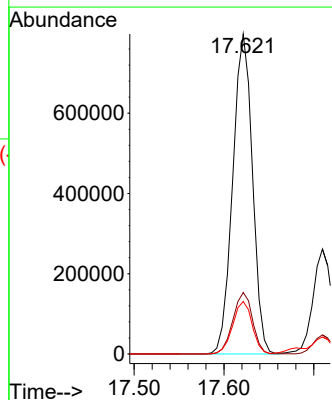
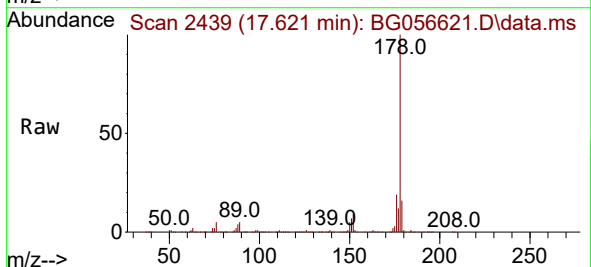
Instrument :
BNA_G
ClientSampleId :

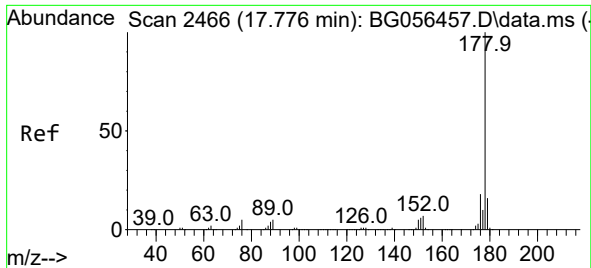
Tgt Ion:248 Resp: 11635
Ion Ratio Lower Upper
248 100
250 198.5 77.6 116.4#
141 392.5 39.0 58.4#



#71
Phenanthrene
Concen: 100.473 ng
RT: 17.621 min Scan# 2439
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

Tgt Ion:178 Resp: 1214467
Ion Ratio Lower Upper
178 100
176 19.2 15.6 23.4
179 16.4 13.3 19.9

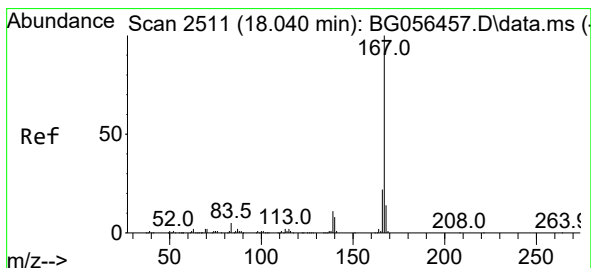
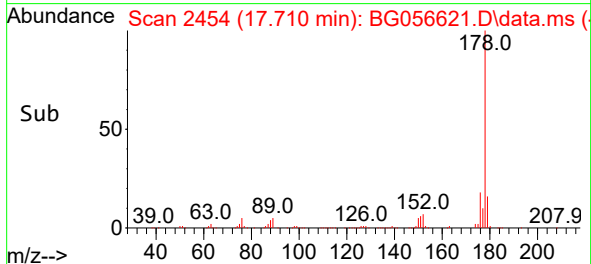
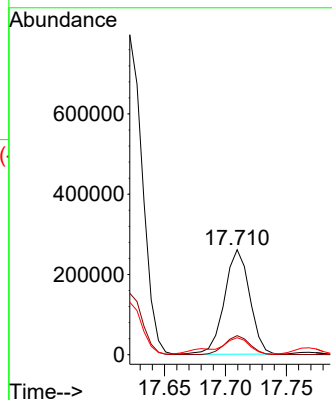
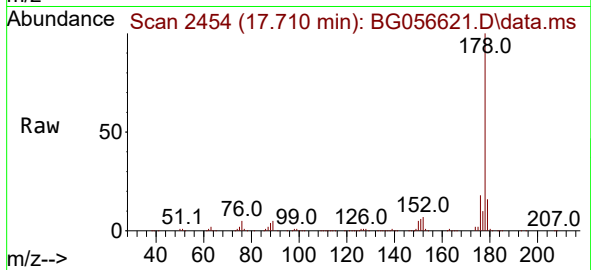




#72
 Anthracene
 Concen: 30.255 ng
 RT: 17.710 min Scan# 2466
 Delta R.T. -0.004 min
 Lab File: BG056621.D
 Acq: 13 Feb 2023 16:00

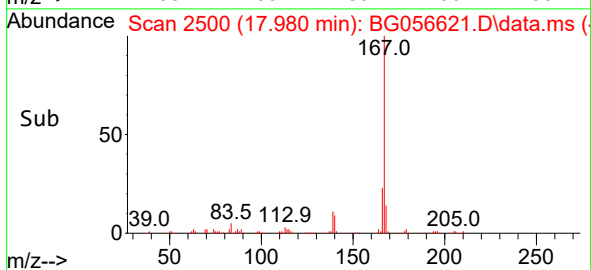
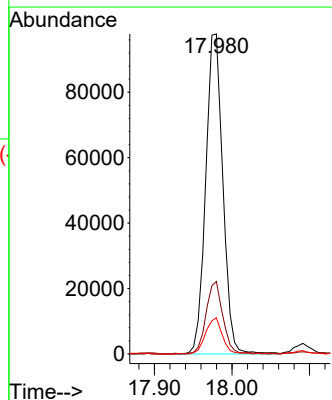
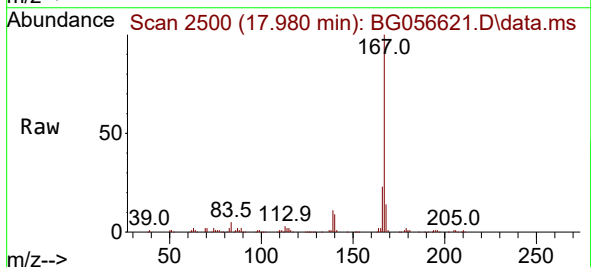
Instrument :
 BNA_G
 ClientSampleId :

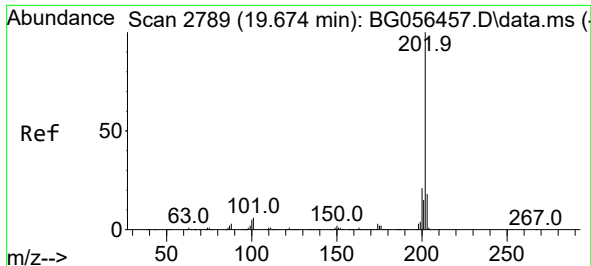
Tgt Ion:178 Resp: 375409
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.5 21.7
 179 16.2 12.5 18.7



#73
 Carbazole
 Concen: 14.215 ng
 RT: 17.980 min Scan# 2500
 Delta R.T. -0.004 min
 Lab File: BG056621.D
 Acq: 13 Feb 2023 16:00

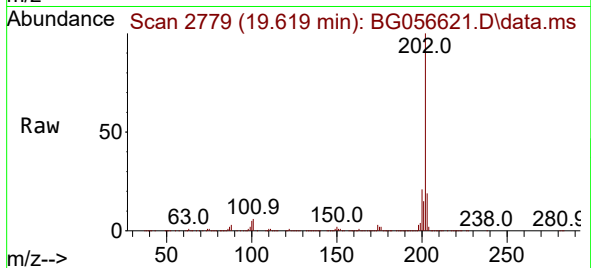
Tgt Ion:167 Resp: 150220
 Ion Ratio Lower Upper
 167 100
 166 22.6 17.8 26.6
 139 11.3 8.9 13.3



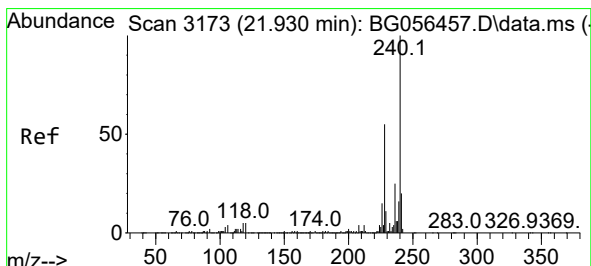
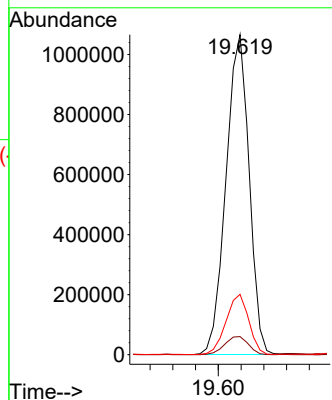
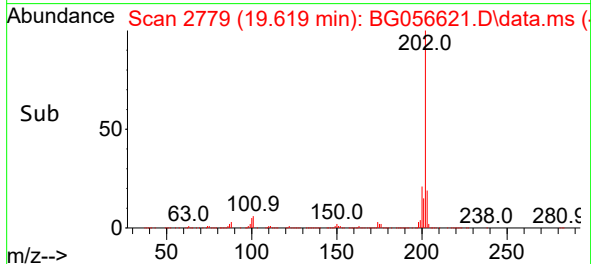


#75
Fluoranthene
Concen: 98.672 ng
RT: 19.619 min Scan# 21
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

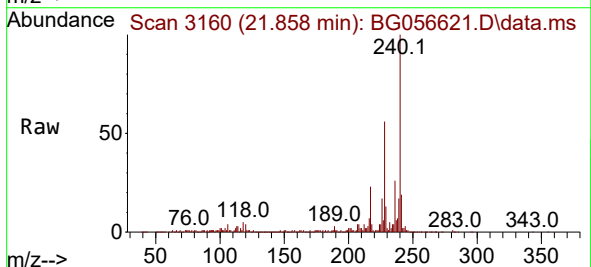
Instrument :
BNA_G
ClientSampleId :



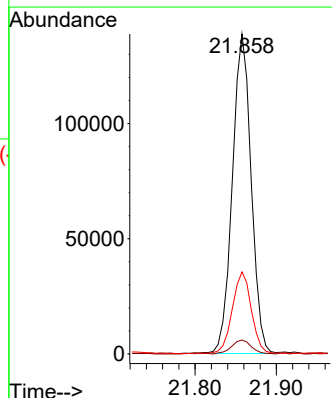
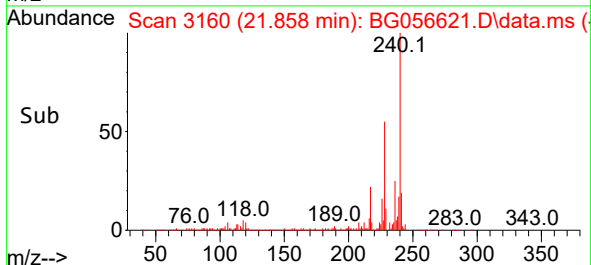
Tgt Ion:202 Resp: 1505326
Ion Ratio Lower Upper
202 100
101 5.7 0.0 25.6
203 18.8 0.0 38.1

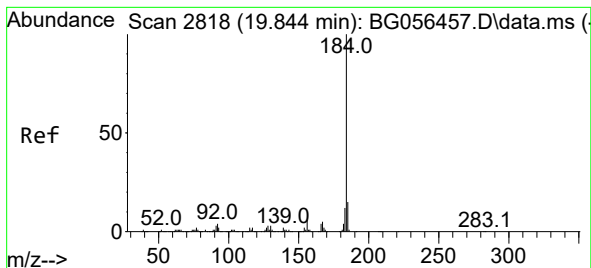


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.858 min Scan# 3160
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00



Tgt Ion:240 Resp: 222560
Ion Ratio Lower Upper
240 100
120 4.4 3.8 5.8
236 25.7 20.2 30.2





#77

Benzidine

Concen: 2.226 ng

RT: 20.154 min Scan# 21

Delta R.T. 0.366 min

Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

Instrument :

BNA_G

ClientSampleId :

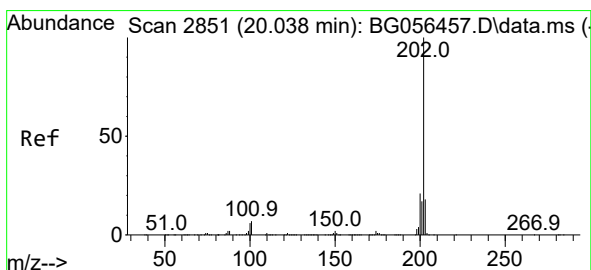
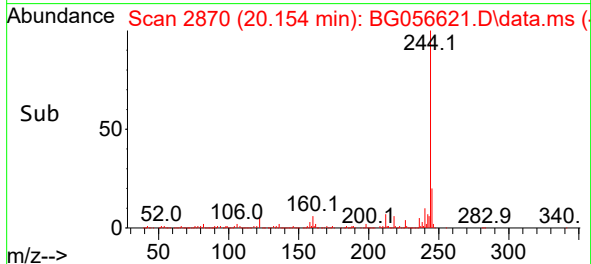
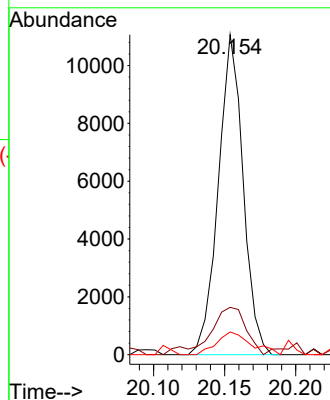
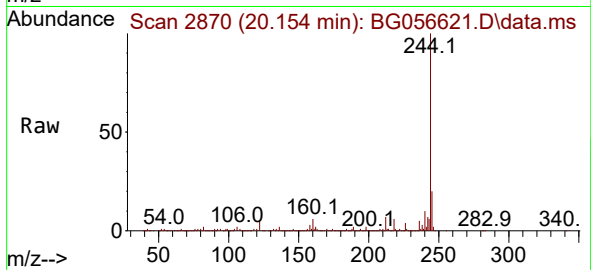
Tgt Ion:184 Resp: 13409

Ion Ratio Lower Upper

184 100

185 14.8 12.3 18.5

183 7.1 9.8 14.8#



#78

Pyrene

Concen: 76.520 ng

RT: 19.977 min Scan# 2840

Delta R.T. -0.004 min

Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

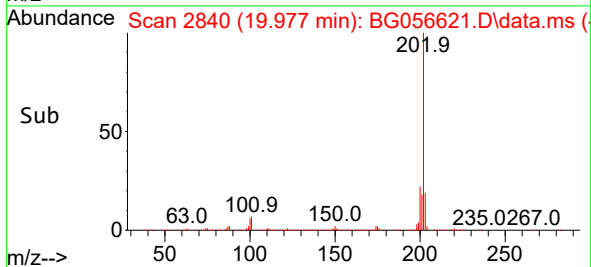
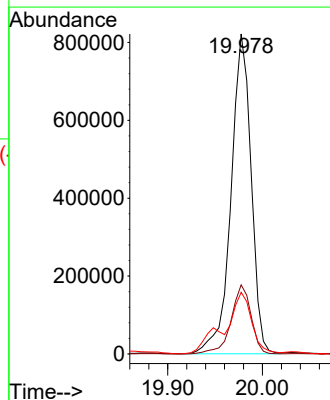
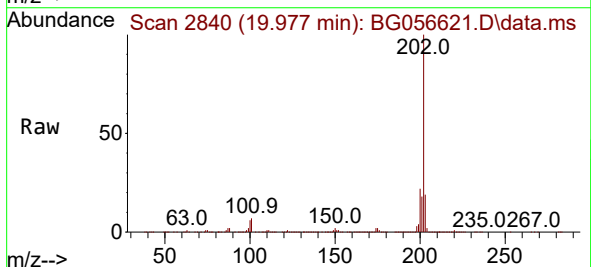
Tgt Ion:202 Resp: 1211235

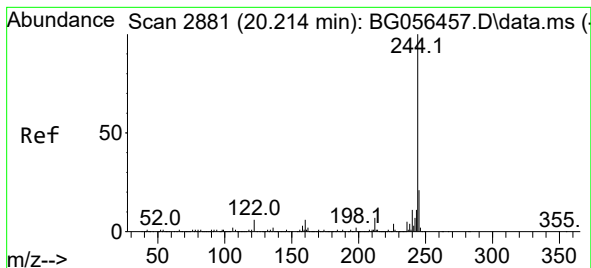
Ion Ratio Lower Upper

202 100

200 21.6 16.7 25.1

203 19.2 14.4 21.6





#79

Terphenyl-d14

Concen: 75.857 ng

RT: 20.154 min Scan# 21

Delta R.T. -0.004 min

Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

Instrument :

BNA_G

ClientSampleId :

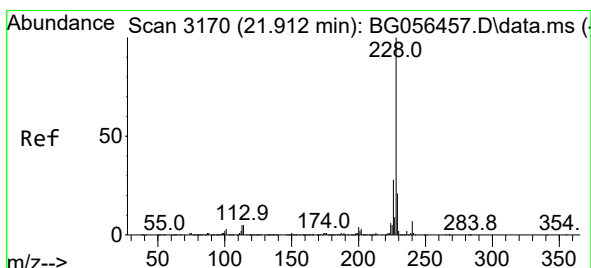
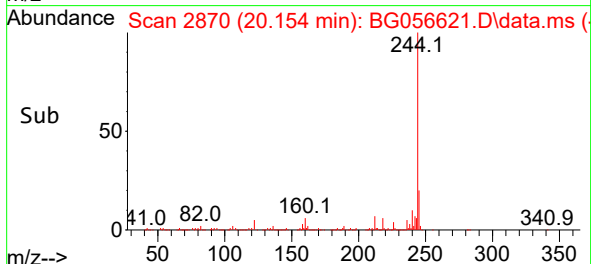
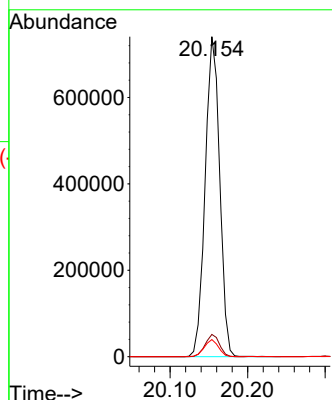
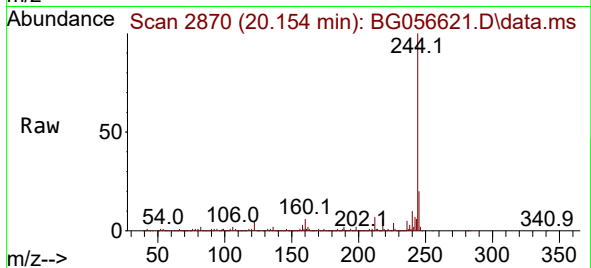
Tgt Ion:244 Resp: 961228

Ion Ratio Lower Upper

244 100

212 7.0 5.5 8.3

122 5.3 4.4 6.6



#81

Benzo(a)anthracene

Concen: 49.166 ng

RT: 21.834 min Scan# 3156

Delta R.T. -0.004 min

Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

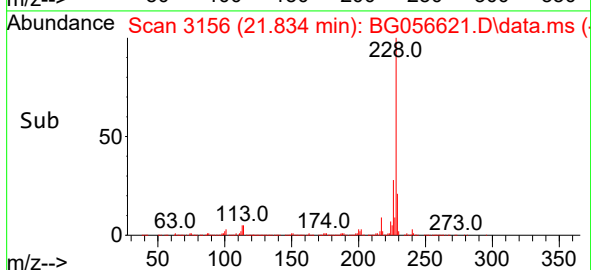
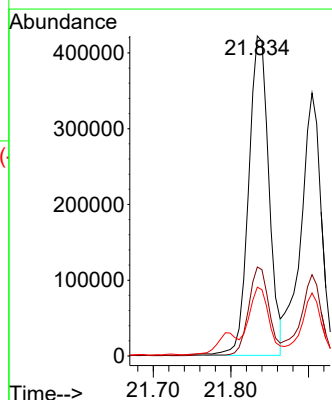
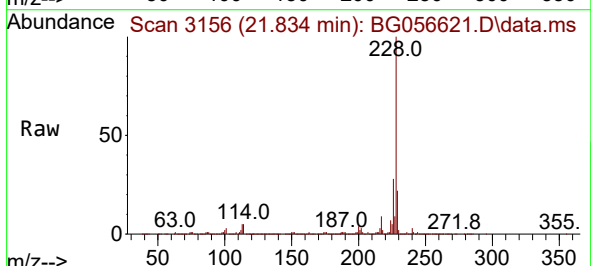
Tgt Ion:228 Resp: 764995

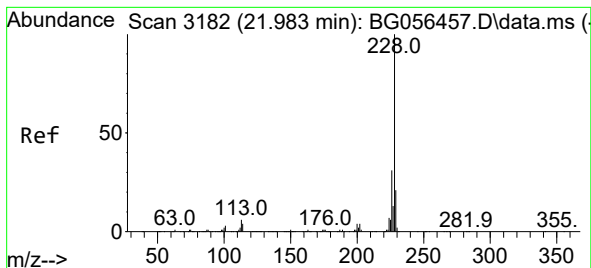
Ion Ratio Lower Upper

228 100

226 27.8 22.4 33.6

229 21.5 16.5 24.7





#83

Chrysene

Concen: 41.751 ng

RT: 21.905 min Scan# 31

Delta R.T. -0.004 min

Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

Instrument :

BNA_G

ClientSampleId :

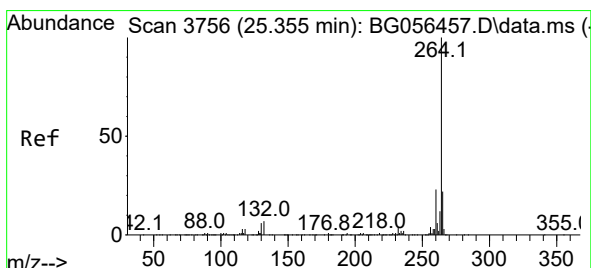
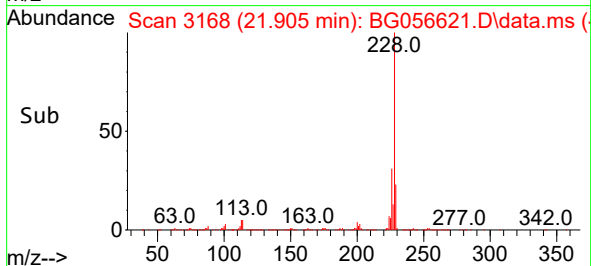
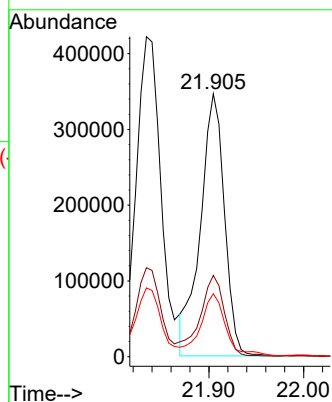
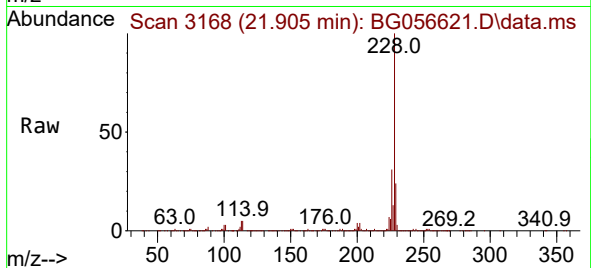
Tgt Ion:228 Resp: 610303

Ion Ratio Lower Upper

228 100

226 30.9 25.0 37.4

229 23.9 16.4 24.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.230 min Scan# 3734

Delta R.T. -0.004 min

Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

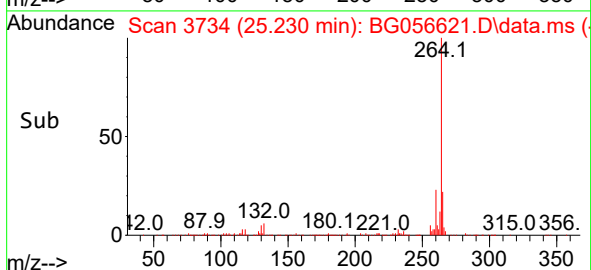
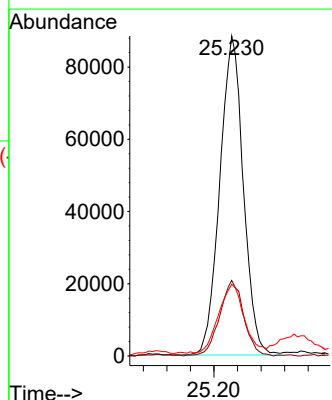
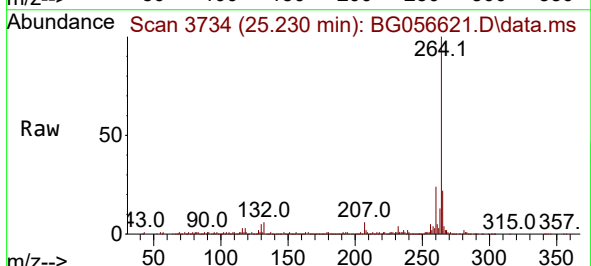
Tgt Ion:264 Resp: 244799

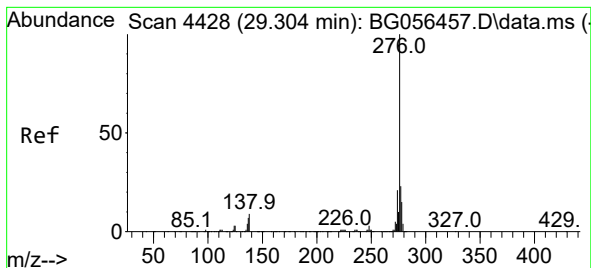
Ion Ratio Lower Upper

264 100

260 23.6 18.2 27.4

265 22.4 18.1 27.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 18.582 ng

RT: 29.114 min Scan# 41

Delta R.T. -0.016 min

Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

Instrument :

BNA_G

ClientSampleId :

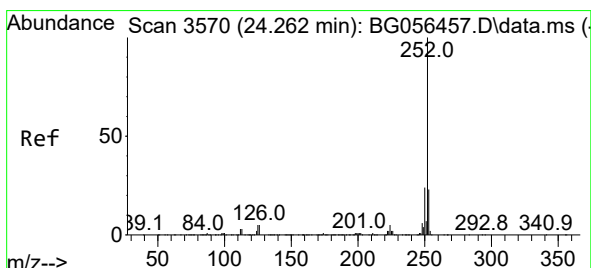
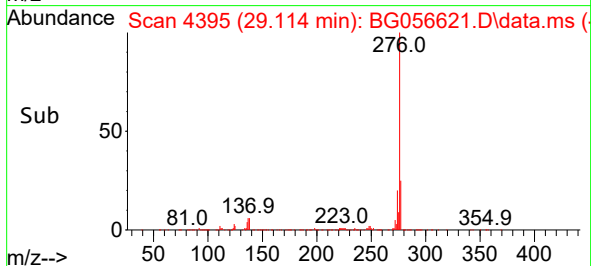
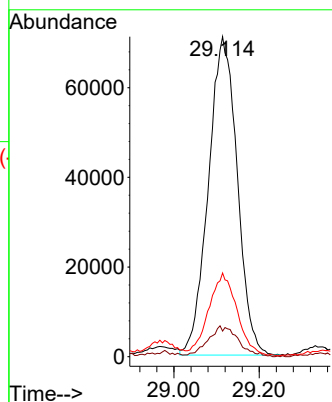
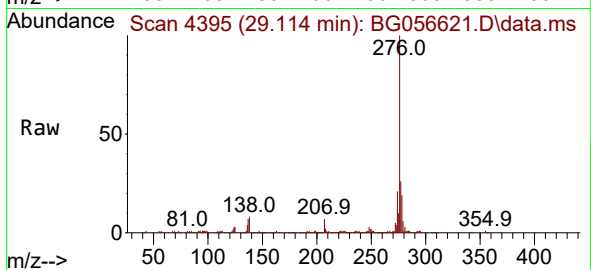
Tgt Ion:276 Resp: 332984

Ion Ratio Lower Upper

276 100

138 4.5 9.4 14.2#

277 25.5 20.3 30.5



#88

Benzo(b)fluoranthene

Concen: 50.183 ng

RT: 24.155 min Scan# 3551

Delta R.T. -0.004 min

Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

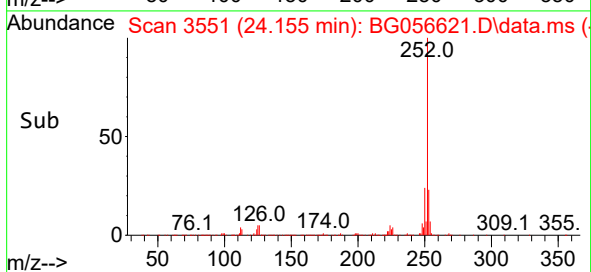
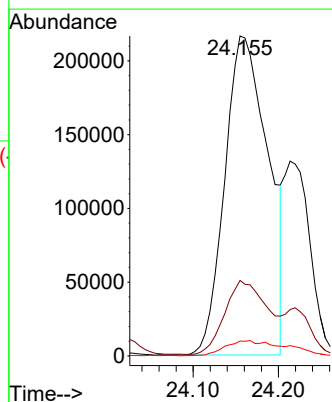
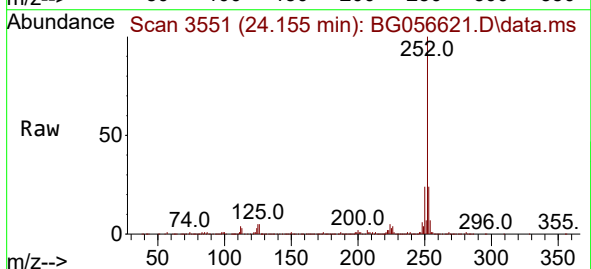
Tgt Ion:252 Resp: 762511

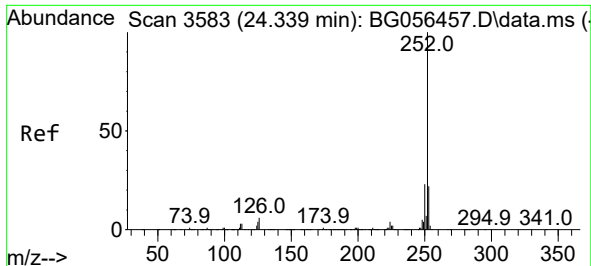
Ion Ratio Lower Upper

252 100

253 23.6 18.1 27.1

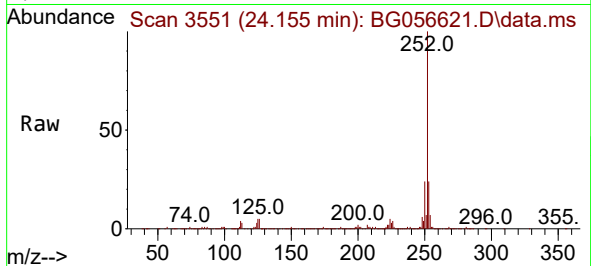
125 4.6 3.9 5.9



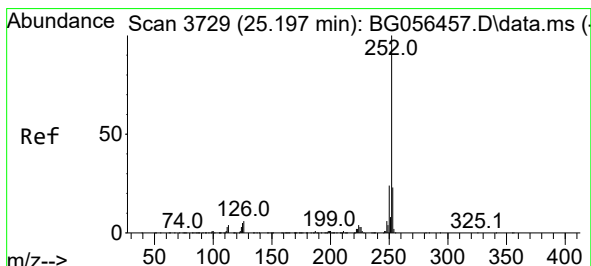
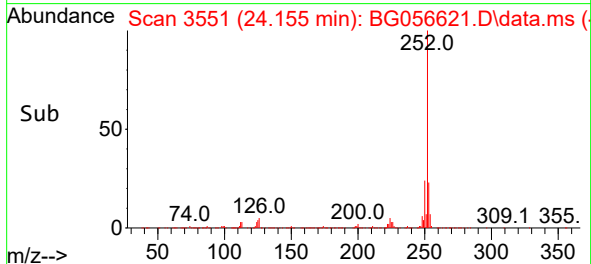
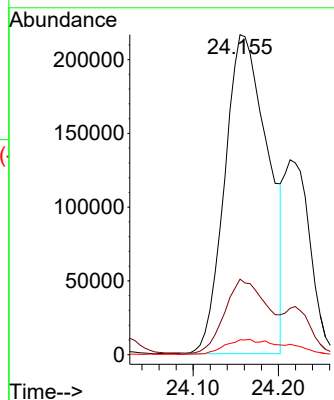


#89
Benzo(k)fluoranthene
Concen: 49.705 ng
RT: 24.155 min Scan# 31
Delta R.T. -0.075 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

Instrument :
BNA_G
ClientSampleId :

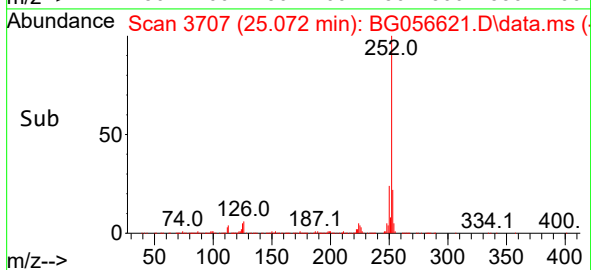
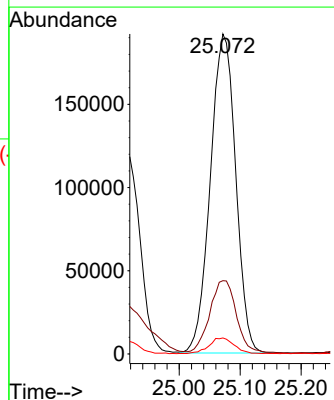
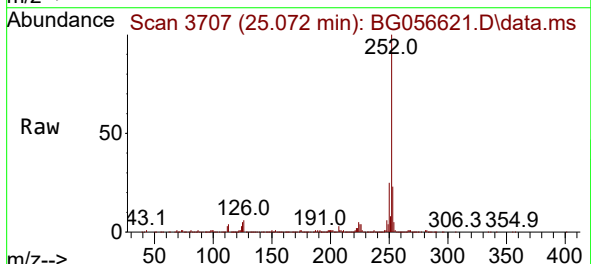


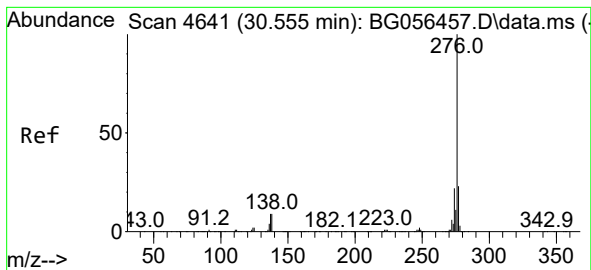
Tgt Ion:252 Resp: 762511
Ion Ratio Lower Upper
252 100
253 23.6 17.5 26.3
125 4.6 3.4 5.0



#90
Benzo(a)pyrene
Concen: 37.020 ng
RT: 25.072 min Scan# 3707
Delta R.T. -0.010 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

Tgt Ion:252 Resp: 554091
Ion Ratio Lower Upper
252 100
253 22.9 18.4 27.6
125 5.0 4.1 6.1





#92

Benzo(g,h,i)perylene

Concen: 19.457 ng

RT: 30.330 min Scan# 4

Delta R.T. -0.022 min

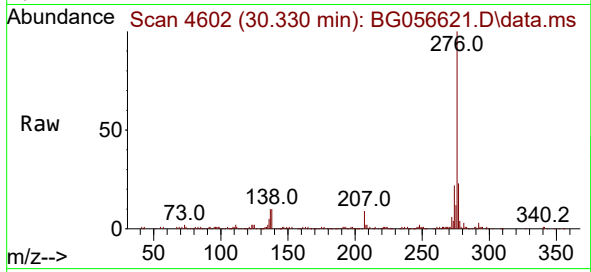
Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

Instrument :

BNA_G

ClientSampleId :



Tgt Ion:276 Resp: 282386

Ion Ratio Lower Upper

276 100

277 23.4 18.5 27.7

138 9.7 7.4 11.0

