

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG021323\
 Data File : BG056630.D
 Acq On : 13 Feb 2023 22:12
 Operator : CG/JU
 Sample : 01528-01 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Feb 14 02:09:59 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

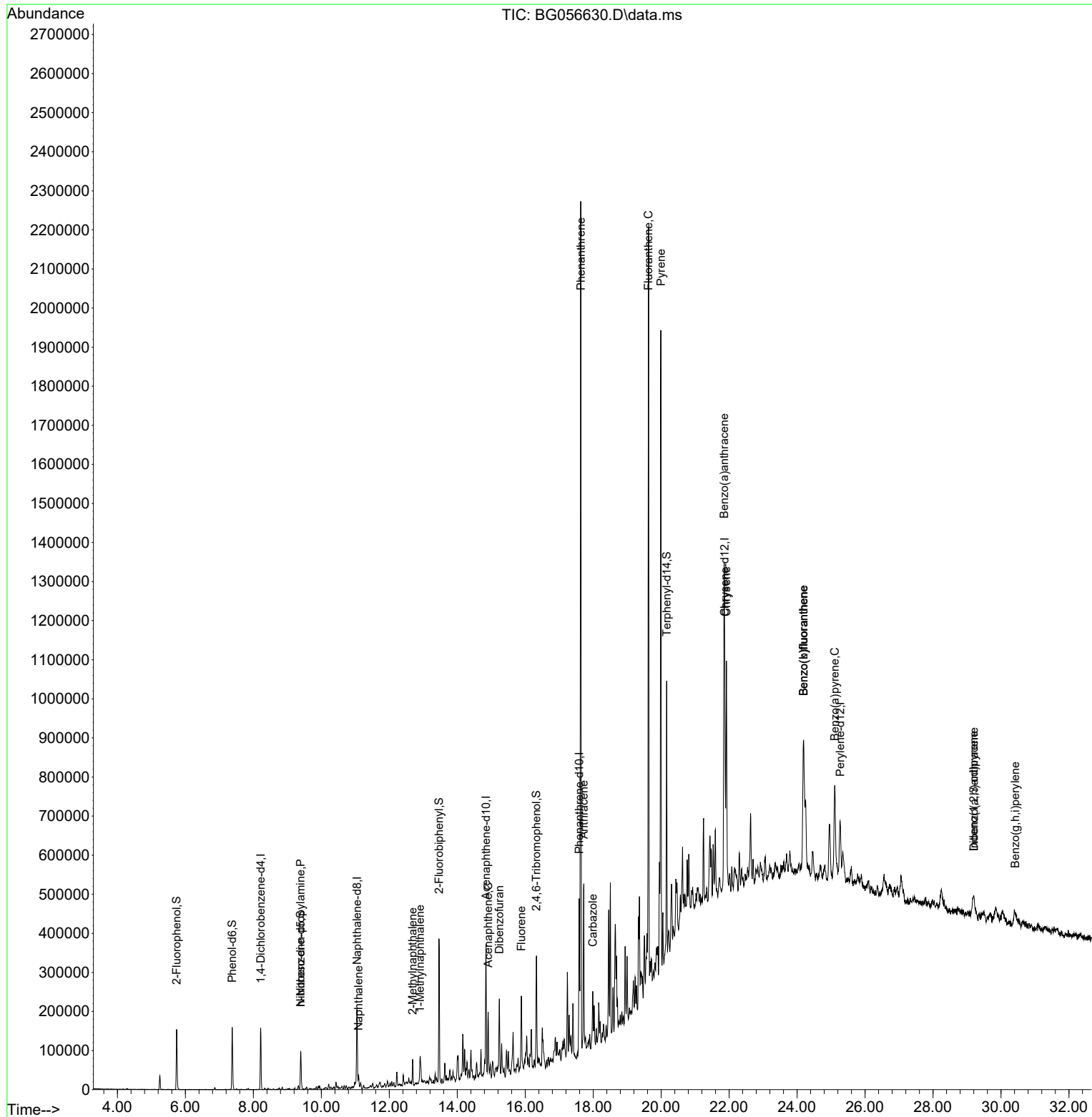
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.217	152	53852	20.000	ng	# 0.00
21) Naphthalene-d8	11.049	136	190744	20.000	ng	0.00
39) Acenaphthene-d10	14.844	164	126750	20.000	ng	0.00
64) Phenanthrene-d10	17.588	188	273736	20.000	ng	0.00
76) Chrysene-d12	21.871	240	257413	20.000	ng	0.00
86) Perylene-d12	25.267	264	245989	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.743	112	95741	32.705	ng	0.02
7) Phenol-d6	7.377	99	127309	29.351	ng	0.00
23) Nitrobenzene-d5	9.392	82	67087	19.972	ng	0.00
42) 2,4,6-Tribromophenol	16.331	330	48205	28.607	ng	0.00
45) 2-Fluorobiphenyl	13.464	172	208490	22.805	ng	0.00
79) Terphenyl-d14	20.162	244	316679	21.607	ng	0.00
Target Compounds						
9) Benzaldehyde	7.377	77	196	Below Cal		Qvalue # 1
19) n-Nitroso-di-n-propyla...	9.392	70	9244	3.698	ng	# 71
31) Naphthalene	11.096	128	22943	2.279	ng	99
37) 2-Methylnaphthalene	12.688	142	32365	3.899	ng	98
38) 1-Methylnaphthalene	12.905	142	33905	4.374	ng	90
52) Acenaphthene	14.909	154	58223	8.398	ng	99
55) Dibenzofuran	15.238	168	108642	8.738	ng	# 94
58) Fluorene	15.884	166	86141	8.707	ng	98
71) Phenanthrene	17.635	178	1492699	104.189	ng	99
72) Anthracene	17.723	178	302889	20.595	ng	99
73) Carbazole	17.988	167	100887	8.054	ng	98
75) Fluoranthene	19.627	202	1321793	73.099	ng	98
78) Pyrene	19.991	202	1113449	60.818	ng	97
81) Benzo(a)anthracene	21.854	228	536993	29.839	ng	98
83) Chrysene	21.918	228	464600	27.480	ng	97
87) Indeno(1,2,3-cd)pyrene	29.198	276	130584	7.252	ng	# 60
88) Benzo(b)fluoranthene	24.192	252	487343	31.919	ng	# 93
89) Benzo(k)fluoranthene	24.192	252	487343	31.614	ng	# 92
90) Benzo(a)pyrene	25.109	252	349276	23.223	ng	98
91) Dibenzo(a,h)anthracene	29.204	278	33309	2.204	ng	# 65
92) Benzo(g,h,i)perylene	30.420	276	94694	6.493	ng	# 90

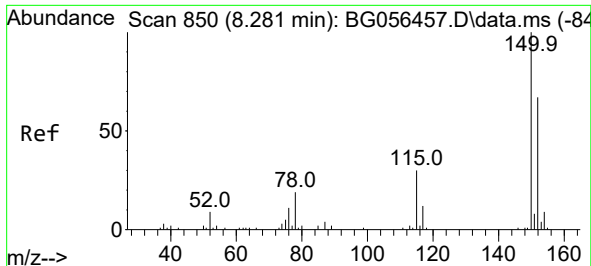
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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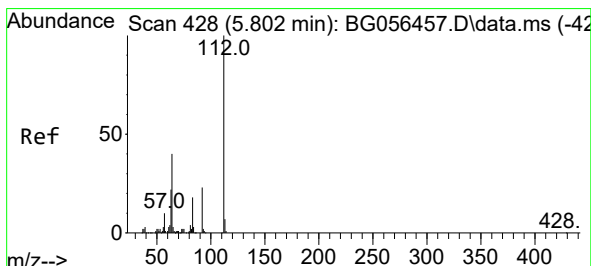
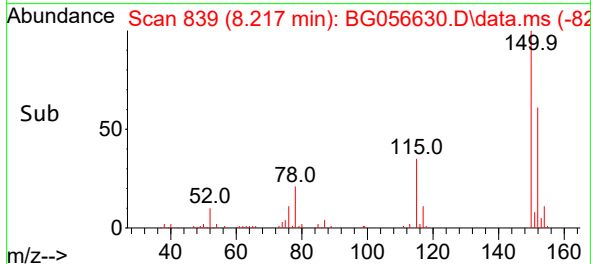
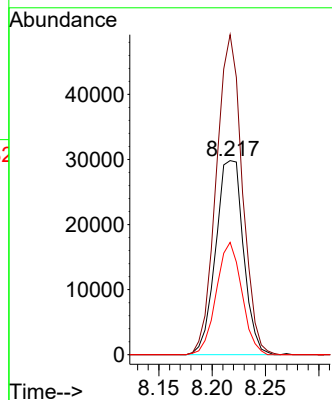
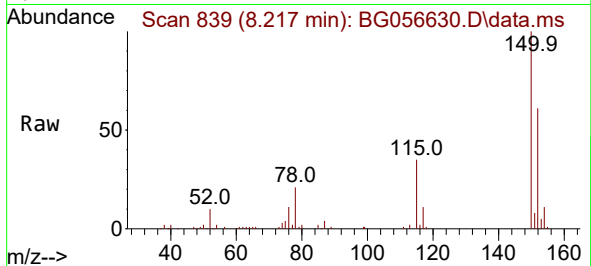




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.217 min Scan# 81
Delta R.T. 0.010 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

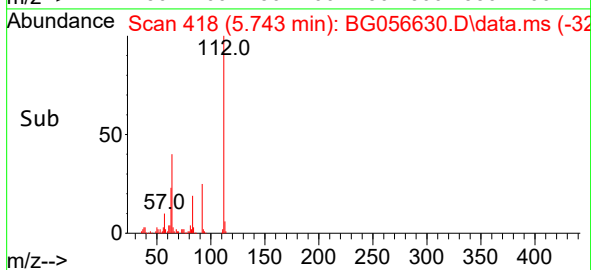
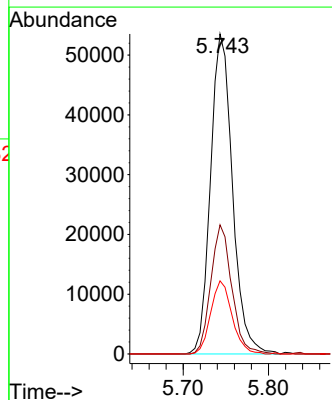
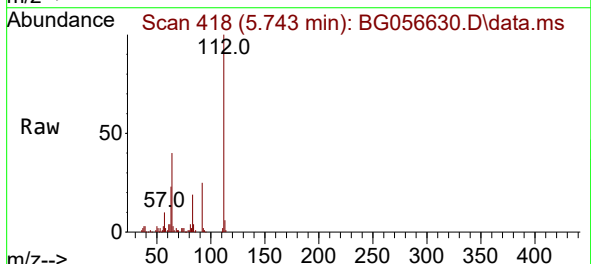
Instrument :
BNA_G
ClientSampleId :

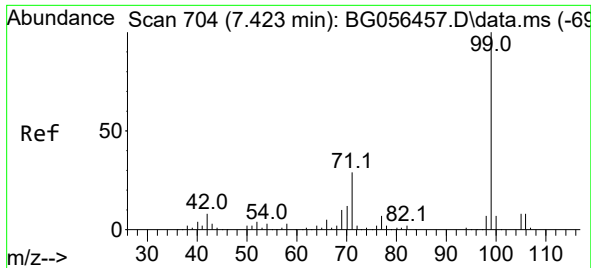
Tgt Ion:152 Resp: 53852
Ion Ratio Lower Upper
152 100
150 164.9 120.2 180.4
115 57.9 36.3 54.5#



#5
2-Fluorophenol
Concen: 32.705 ng
RT: 5.743 min Scan# 418
Delta R.T. 0.015 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Tgt Ion:112 Resp: 95741
Ion Ratio Lower Upper
112 100
64 40.4 31.9 47.9
63 22.9 17.4 26.0

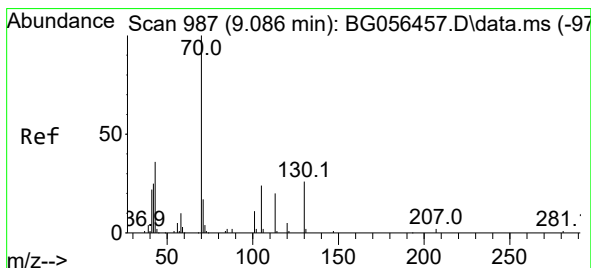
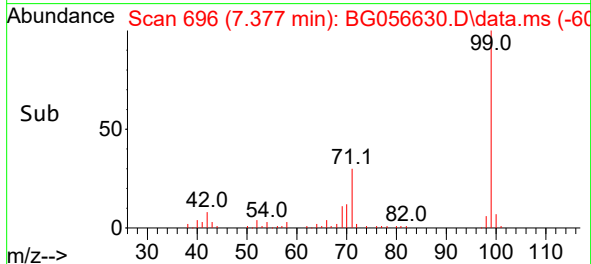
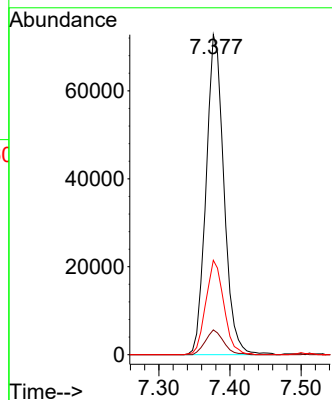
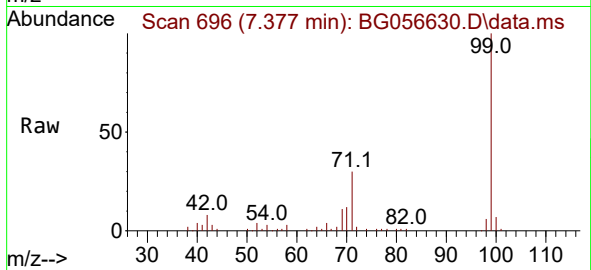




#7
Phenol-d6
Concen: 29.351 ng
RT: 7.377 min Scan# 61
Delta R.T. 0.009 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

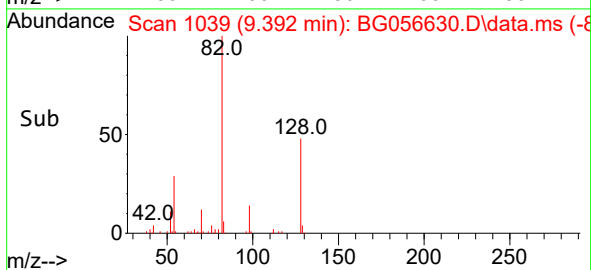
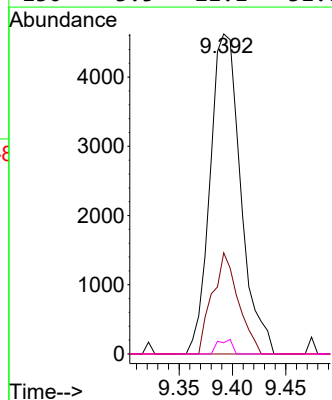
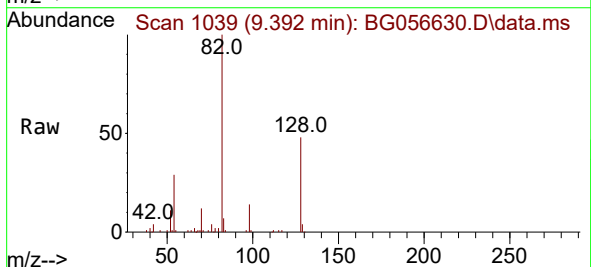
Instrument :
BNA_G
ClientSampleId :

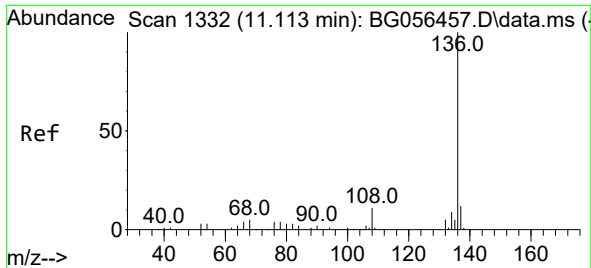
Tgt Ion: 99 Resp: 127309
Ion Ratio Lower Upper
99 100
42 7.7 6.6 10.0
71 29.5 23.4 35.0



#19
n-Nitroso-di-n-propylamine
Concen: 3.698 ng
RT: 9.392 min Scan# 1039
Delta R.T. 0.374 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

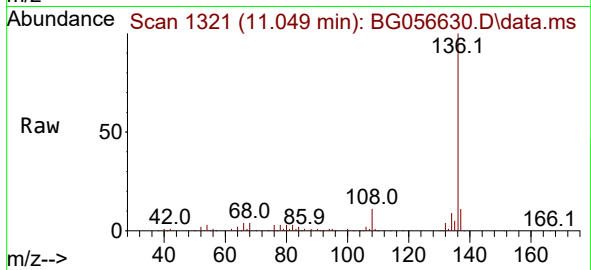
Tgt Ion: 70 Resp: 9244
Ion Ratio Lower Upper
70 100
42 31.6 20.2 30.4#
101 0.0 9.1 13.7#
130 3.5 21.1 31.7#



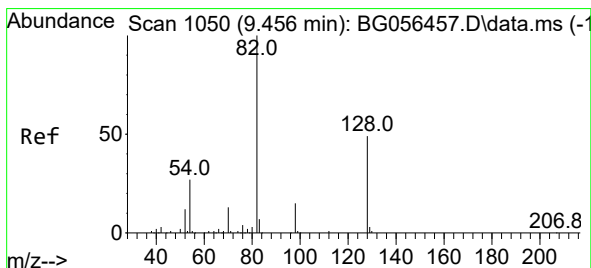
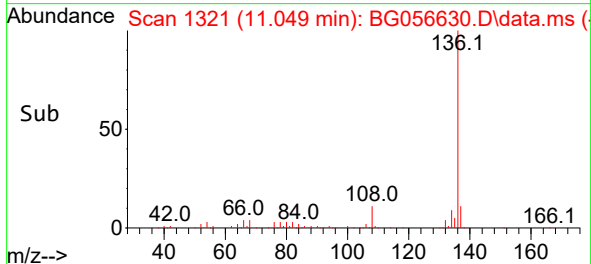
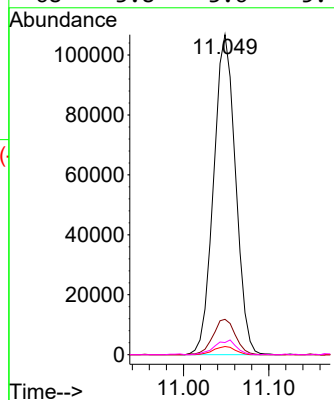


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.049 min Scan# 11
Delta R.T. 0.004 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Instrument :
BNA_G
ClientSampleId :

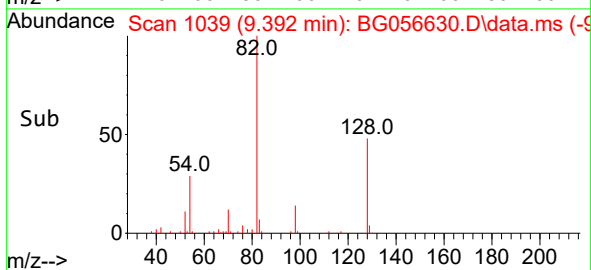
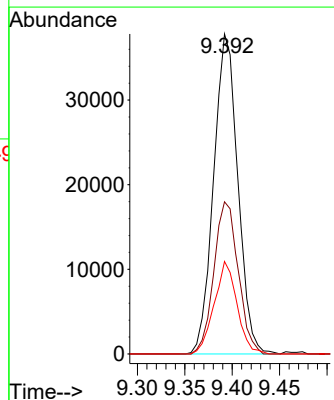
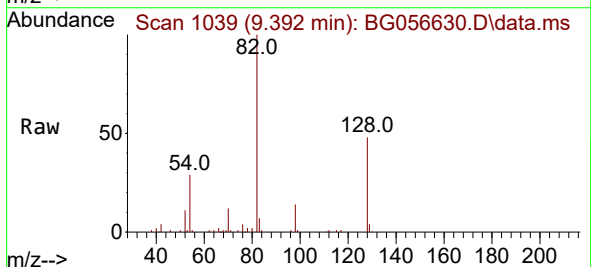


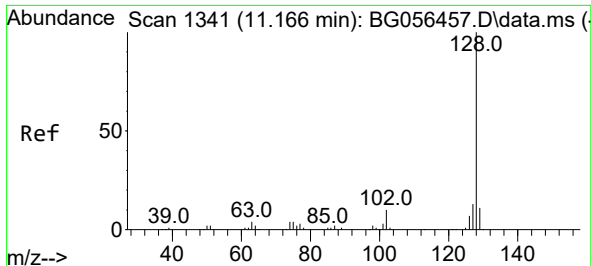
Tgt Ion:136 Resp: 190744
Ion Ratio Lower Upper
136 100
137 11.0 9.4 14.0
54 2.5 2.2 3.4
68 3.8 3.6 5.4



#23
Nitrobenzene-d5
Concen: 19.972 ng
RT: 9.392 min Scan# 1039
Delta R.T. 0.004 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Tgt Ion: 82 Resp: 67087
Ion Ratio Lower Upper
82 100
128 47.5 39.4 59.2
54 28.9 21.4 32.2

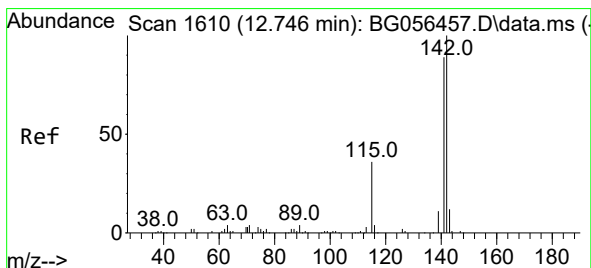
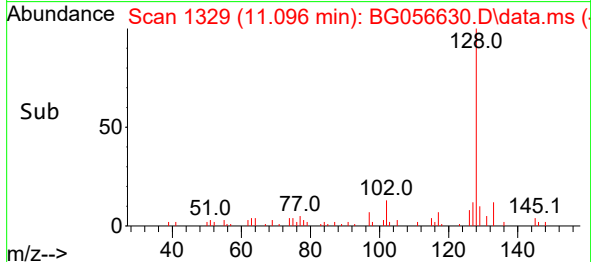
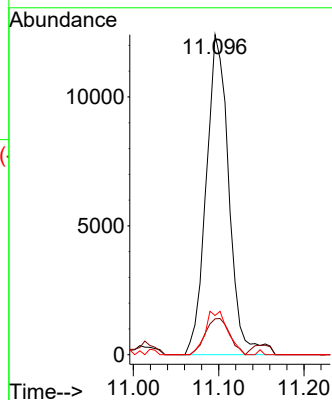
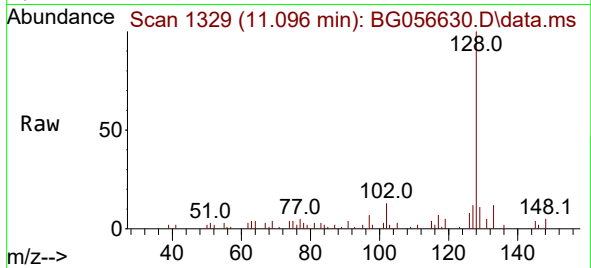




#31
Naphthalene
Concen: 2.279 ng
RT: 11.096 min Scan# 11
Delta R.T. -0.002 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

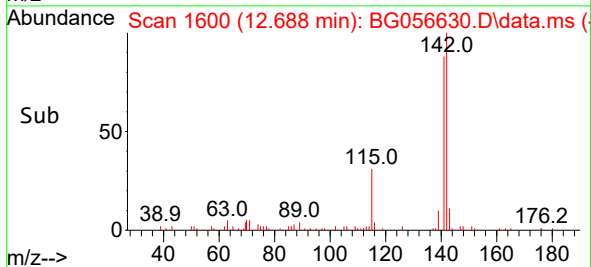
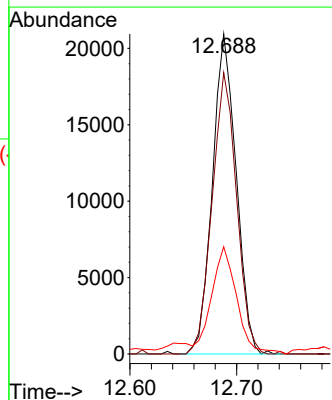
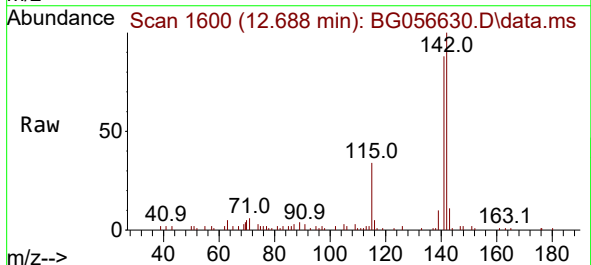
Instrument :
BNA_G
ClientSampleId :

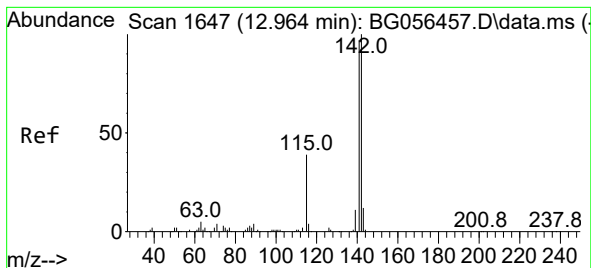
Tgt Ion:128 Resp: 22943
Ion Ratio Lower Upper
128 100
129 11.2 8.7 13.1
127 12.2 10.4 15.6



#37
2-Methylnaphthalene
Concen: 3.899 ng
RT: 12.688 min Scan# 1600
Delta R.T. 0.004 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Tgt Ion:142 Resp: 32365
Ion Ratio Lower Upper
142 100
141 87.9 71.4 107.0
115 33.5 28.4 42.6





#38

1-Methylnaphthalene

Concen: 4.374 ng

RT: 12.905 min Scan# 1

Delta R.T. 0.004 min

Lab File: BG056630.D

Acq: 13 Feb 2023 22:12

Instrument :

BNA_G

ClientSampleId :

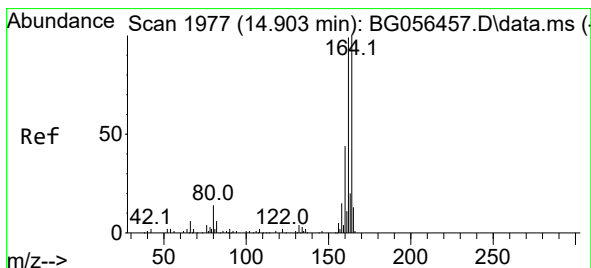
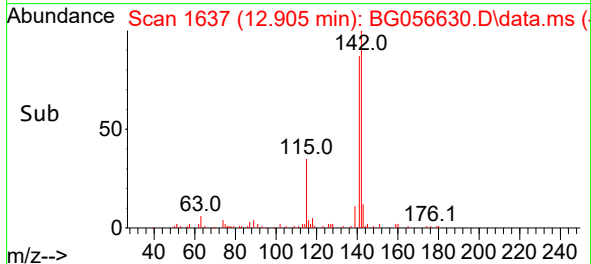
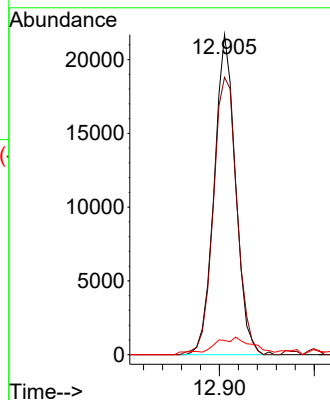
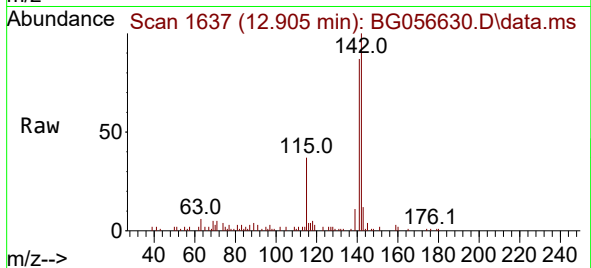
Tgt Ion:142 Resp: 33905

Ion Ratio Lower Upper

142 100

141 86.7 77.7 116.5

116 4.4 3.4 5.2



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.844 min Scan# 1967

Delta R.T. 0.004 min

Lab File: BG056630.D

Acq: 13 Feb 2023 22:12

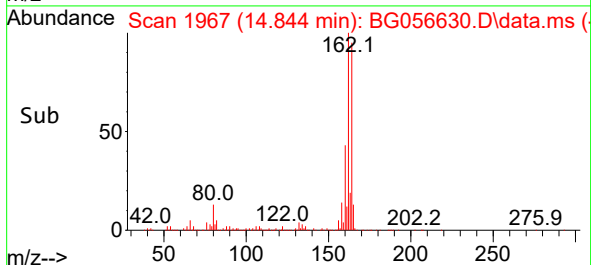
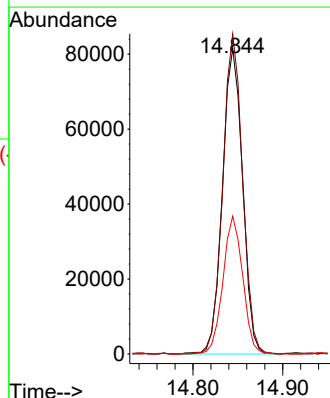
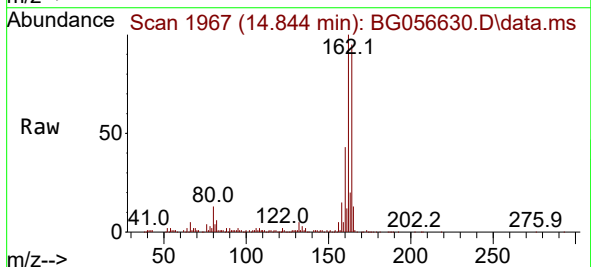
Tgt Ion:164 Resp: 126750

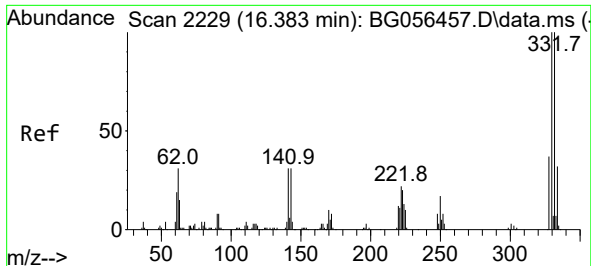
Ion Ratio Lower Upper

164 100

162 104.7 79.6 119.4

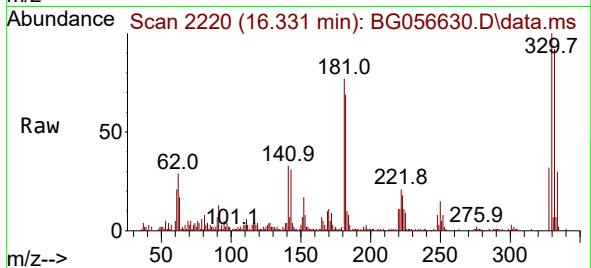
160 45.1 34.9 52.3



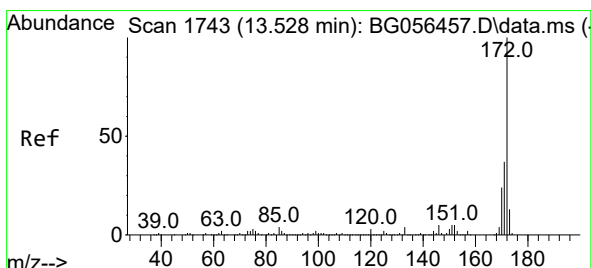
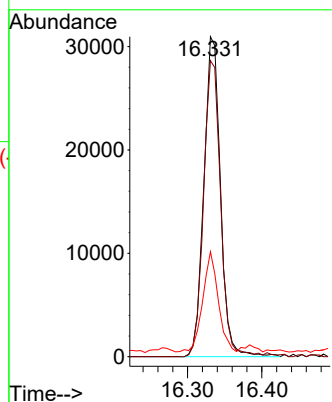
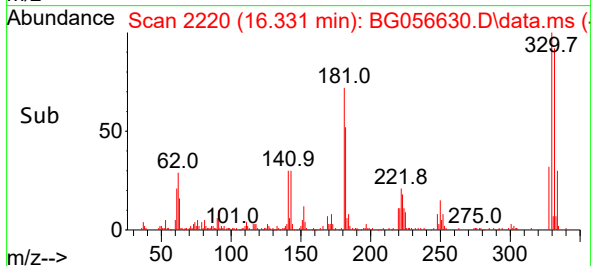


#42
2,4,6-Tribromophenol
Concen: 28.607 ng
RT: 16.331 min Scan# 21
Delta R.T. 0.004 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Instrument :
BNA_G
ClientSampleId :

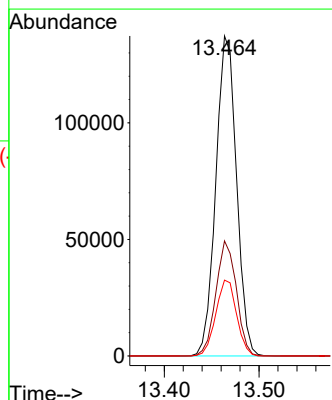
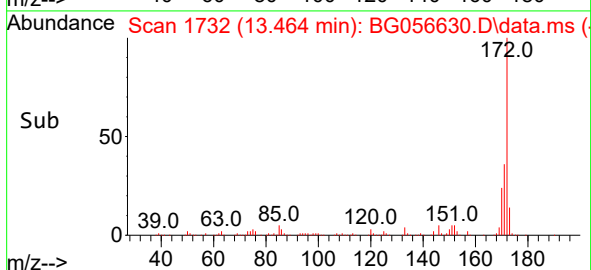
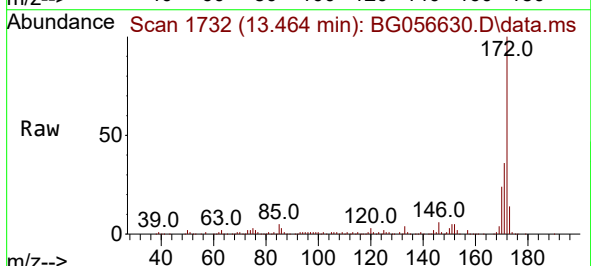


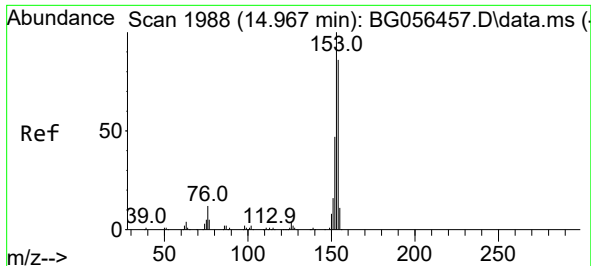
Tgt Ion:330 Resp: 48205
Ion Ratio Lower Upper
330 100
332 94.8 79.0 118.6
141 29.2 24.2 36.4



#45
2-Fluorobiphenyl
Concen: 22.805 ng
RT: 13.464 min Scan# 1732
Delta R.T. -0.002 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Tgt Ion:172 Resp: 208490
Ion Ratio Lower Upper
172 100
171 36.0 29.5 44.3
170 23.7 19.2 28.8

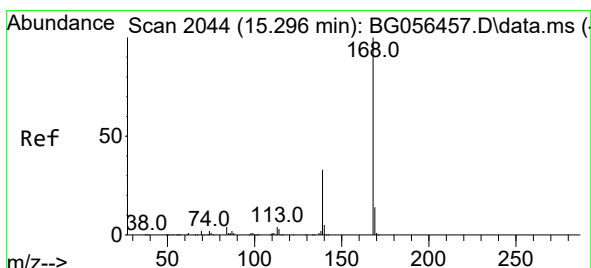
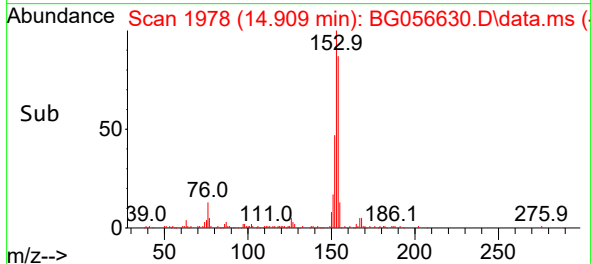
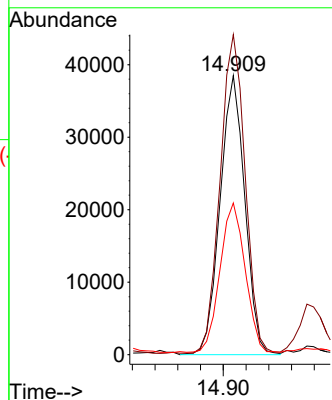
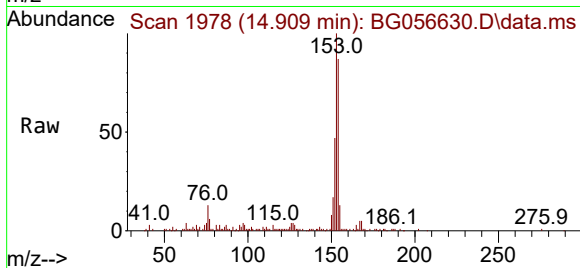




#52
Acenaphthene
Concen: 8.398 ng
RT: 14.909 min Scan# 1988
Delta R.T. 0.004 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

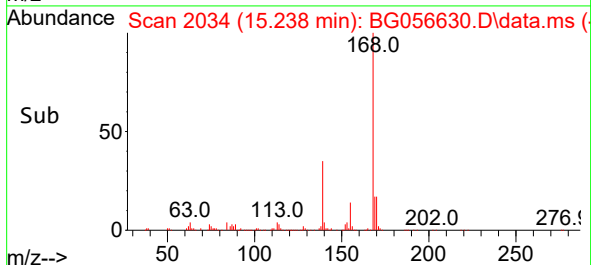
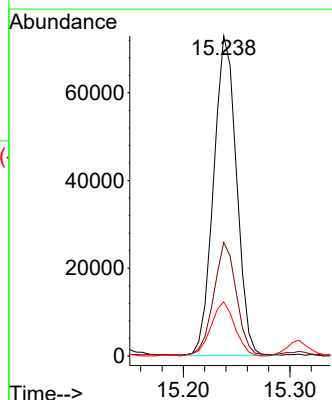
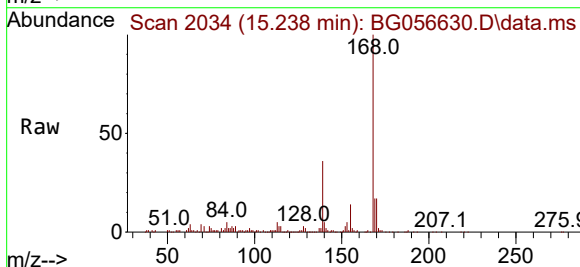
Instrument :
BNA_G
ClientSampleId :

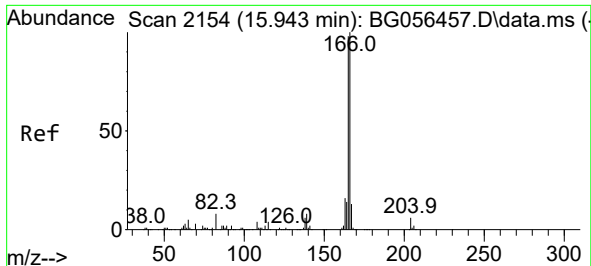
Tgt Ion:154 Resp: 58223
Ion Ratio Lower Upper
154 100
153 114.6 93.4 140.0
152 54.3 43.4 65.2



#55
Dibenzofuran
Concen: 8.738 ng
RT: 15.238 min Scan# 2034
Delta R.T. -0.002 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Tgt Ion:168 Resp: 108642
Ion Ratio Lower Upper
168 100
139 35.5 26.2 39.2
169 16.9 11.0 16.6#

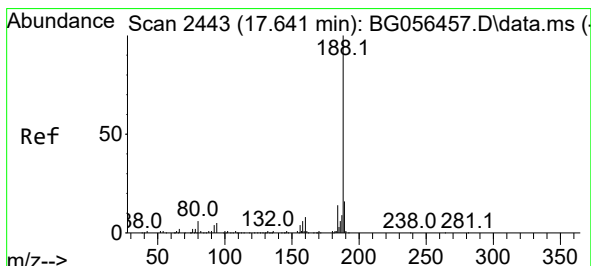
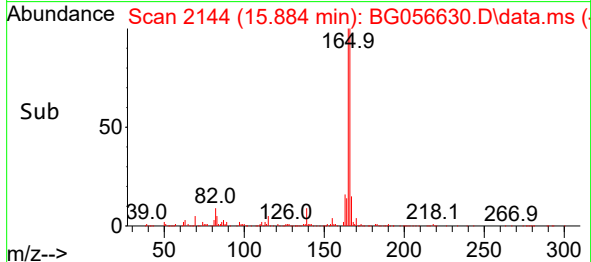
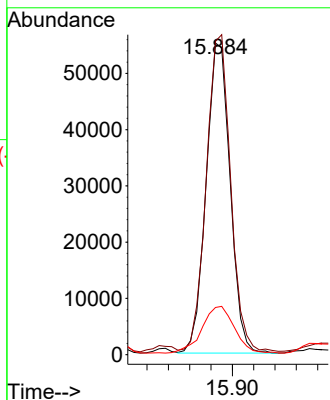
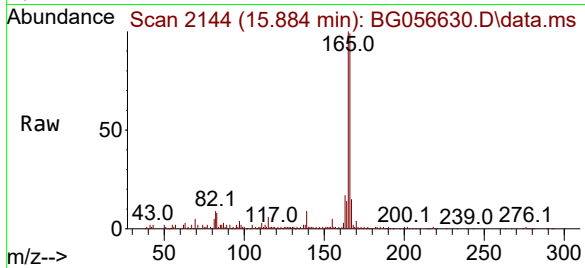




#58
 Fluorene
 Concen: 8.707 ng
 RT: 15.884 min Scan# 2154
 Delta R.T. -0.002 min
 Lab File: BG056630.D
 Acq: 13 Feb 2023 22:12

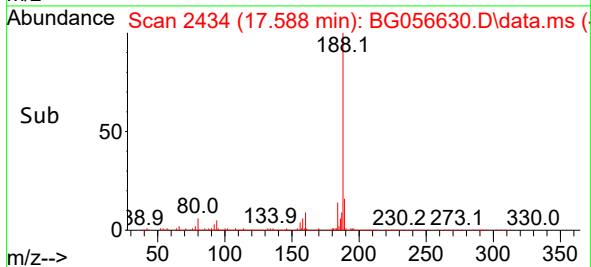
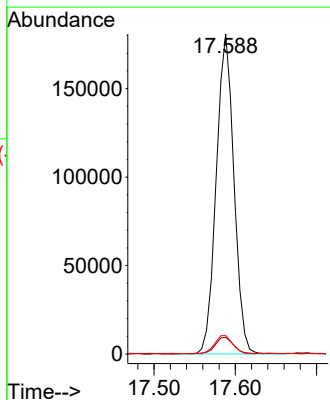
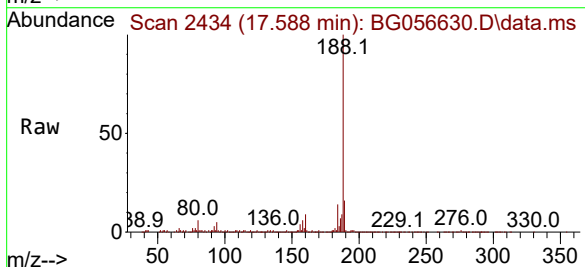
Instrument :
 BNA_G
 ClientSampleId :

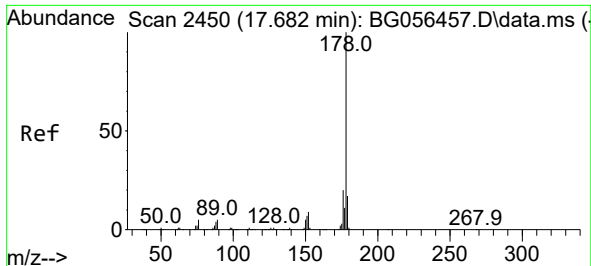
Tgt Ion:166 Resp: 86141
 Ion Ratio Lower Upper
 166 100
 165 100.6 78.8 118.2
 167 15.2 10.6 15.8



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.588 min Scan# 2434
 Delta R.T. 0.004 min
 Lab File: BG056630.D
 Acq: 13 Feb 2023 22:12

Tgt Ion:188 Resp: 273736
 Ion Ratio Lower Upper
 188 100
 94 5.2 4.1 6.1
 80 5.8 5.0 7.4

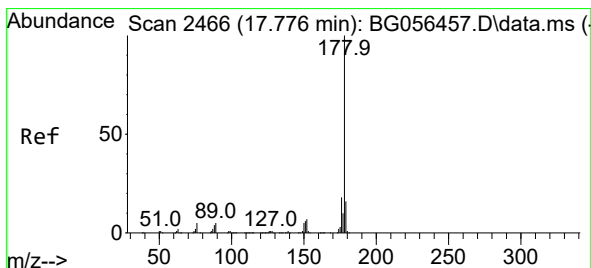
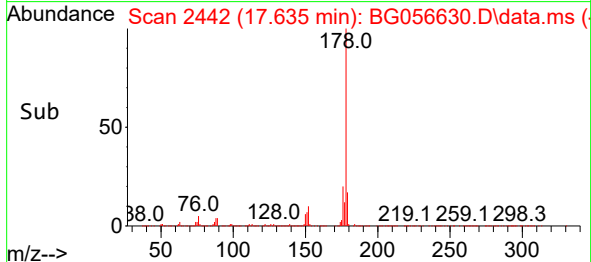
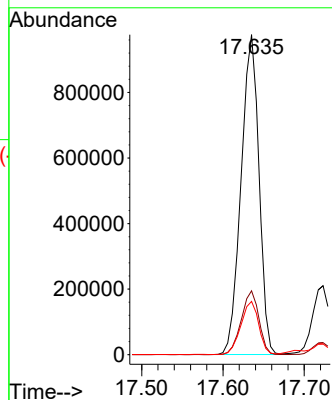
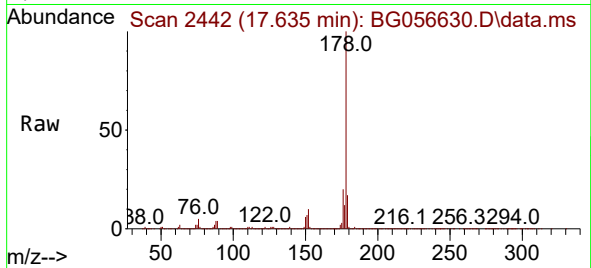




#71
Phenanthrene
Concen: 104.189 ng
RT: 17.635 min Scan# 24
Delta R.T. 0.009 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

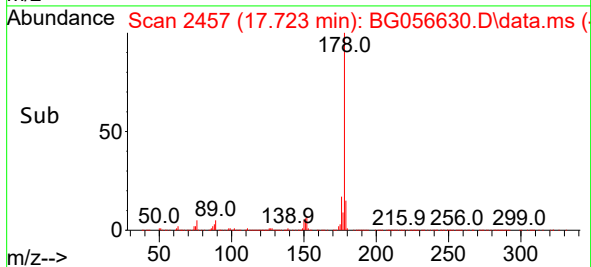
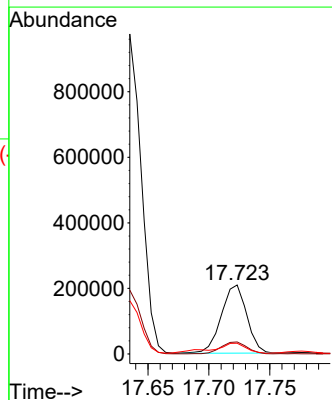
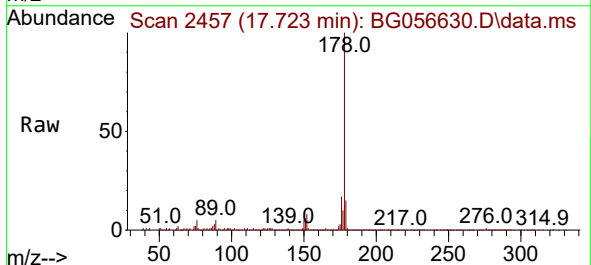
Instrument :
BNA_G
ClientSampleId :

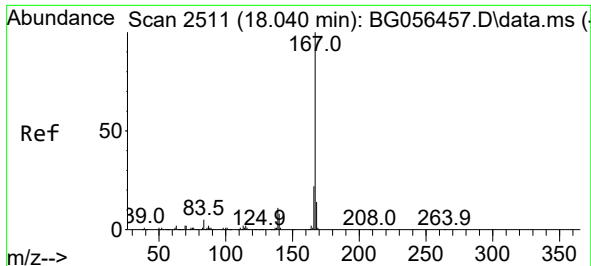
Tgt Ion:178 Resp: 1492699
Ion Ratio Lower Upper
178 100
176 19.9 15.6 23.4
179 16.6 13.3 19.9



#72
Anthracene
Concen: 20.595 ng
RT: 17.723 min Scan# 2457
Delta R.T. 0.009 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Tgt Ion:178 Resp: 302889
Ion Ratio Lower Upper
178 100
176 17.5 14.5 21.7
179 15.5 12.5 18.7

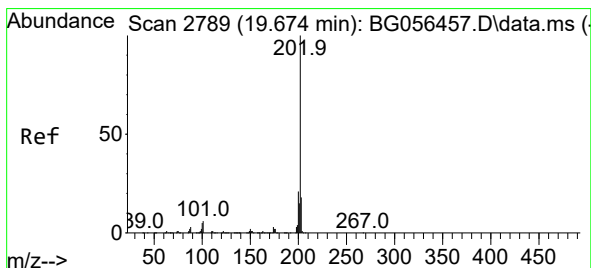
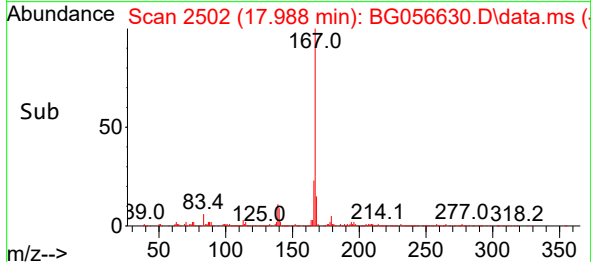
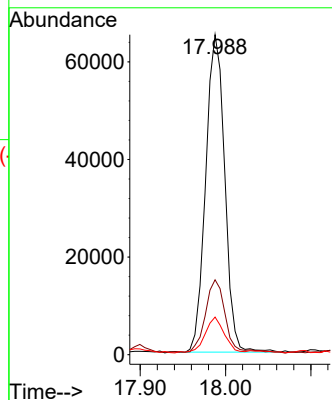
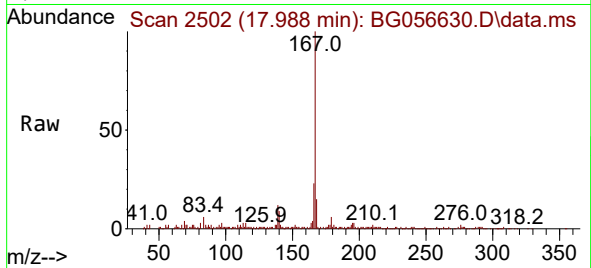




#73
 Carbazole
 Concen: 8.054 ng
 RT: 17.988 min Scan# 21
 Delta R.T. 0.004 min
 Lab File: BG056630.D
 Acq: 13 Feb 2023 22:12

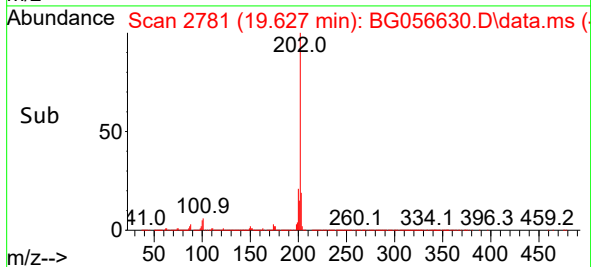
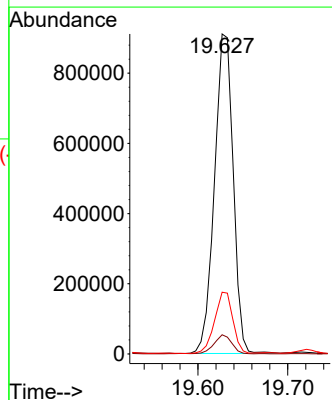
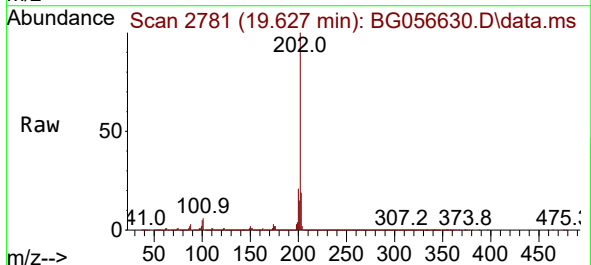
Instrument :
 BNA_G
 ClientSampleId :

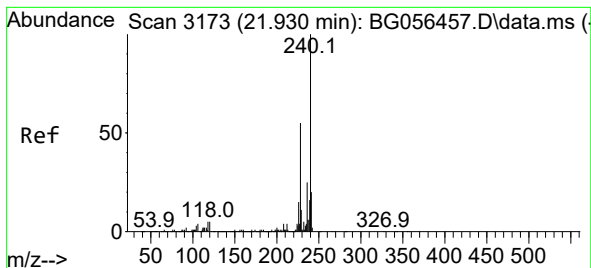
Tgt Ion:167 Resp: 100887
 Ion Ratio Lower Upper
 167 100
 166 23.4 17.8 26.6
 139 11.7 8.9 13.3



#75
 Fluoranthene
 Concen: 73.099 ng
 RT: 19.627 min Scan# 2781
 Delta R.T. 0.004 min
 Lab File: BG056630.D
 Acq: 13 Feb 2023 22:12

Tgt Ion:202 Resp: 1321793
 Ion Ratio Lower Upper
 202 100
 101 6.0 0.0 25.6
 203 19.3 0.0 38.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.871 min Scan# 31

Delta R.T. 0.009 min

Lab File: BG056630.D

Acq: 13 Feb 2023 22:12

Instrument :

BNA_G

ClientSampleId :

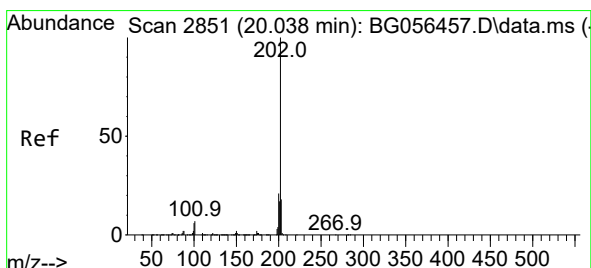
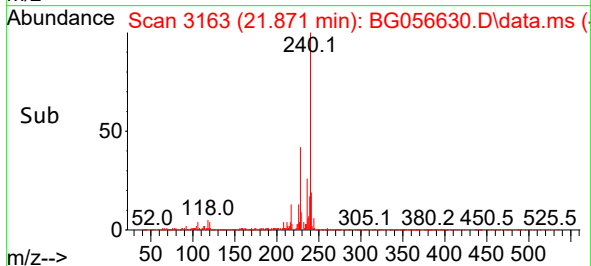
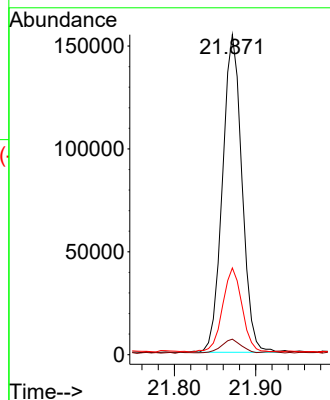
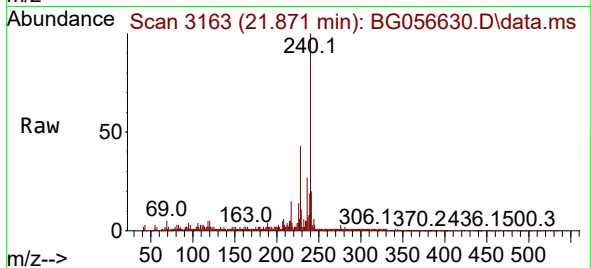
Tgt Ion:240 Resp: 257413

Ion Ratio Lower Upper

240 100

120 4.9 3.8 5.8

236 27.1 20.2 30.2



#78

Pyrene

Concen: 60.818 ng

RT: 19.991 min Scan# 2843

Delta R.T. 0.009 min

Lab File: BG056630.D

Acq: 13 Feb 2023 22:12

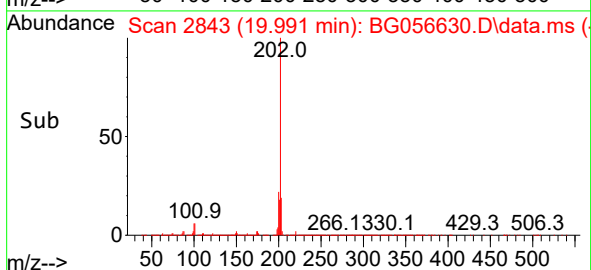
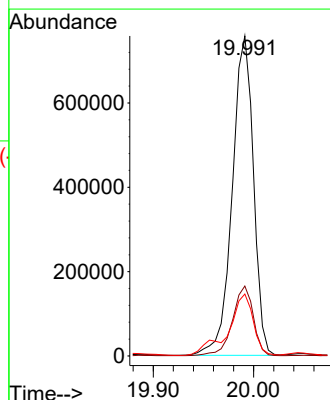
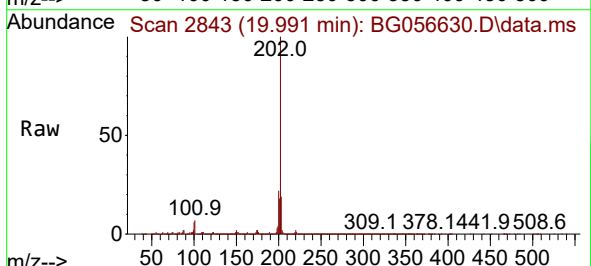
Tgt Ion:202 Resp: 1113449

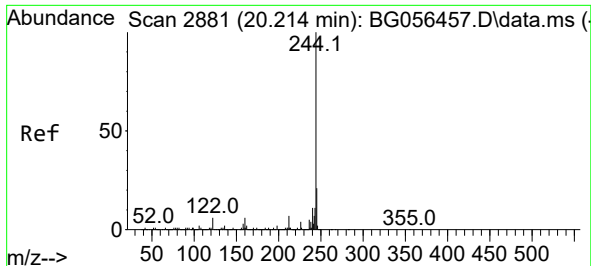
Ion Ratio Lower Upper

202 100

200 21.9 16.7 25.1

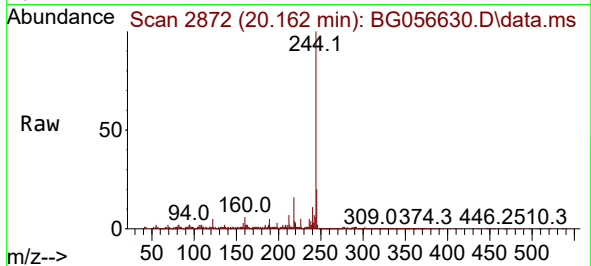
203 19.4 14.4 21.6



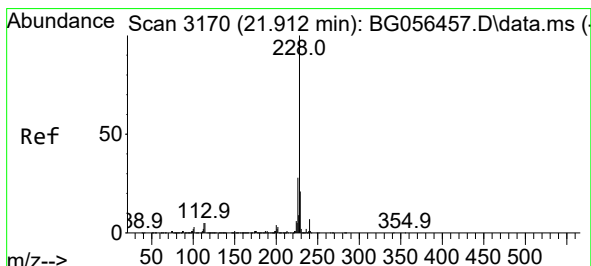
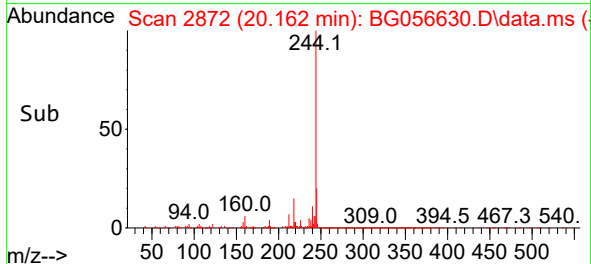
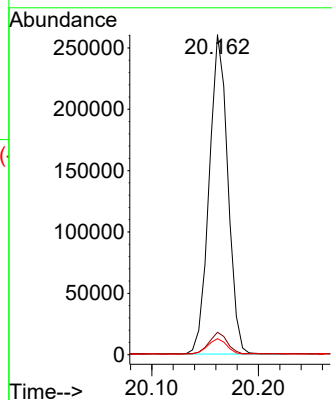


#79
 Terphenyl-d14
 Concen: 21.607 ng
 RT: 20.162 min Scan# 21
 Delta R.T. 0.004 min
 Lab File: BG056630.D
 Acq: 13 Feb 2023 22:12

Instrument :
 BNA_G
 ClientSampleId :

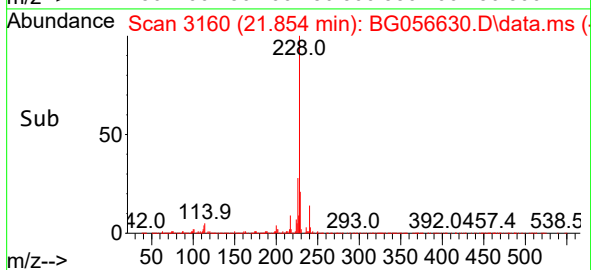
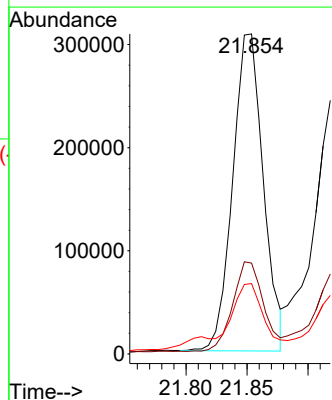
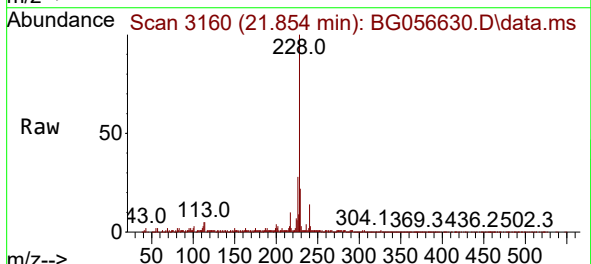


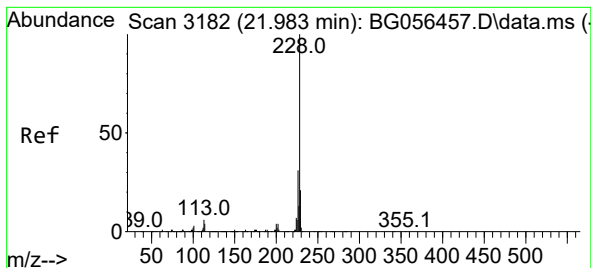
Tgt Ion:244 Resp: 316679
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.5 8.3
 122 5.0 4.4 6.6



#81
 Benzo(a)anthracene
 Concen: 29.839 ng
 RT: 21.854 min Scan# 3160
 Delta R.T. 0.015 min
 Lab File: BG056630.D
 Acq: 13 Feb 2023 22:12

Tgt Ion:228 Resp: 536993
 Ion Ratio Lower Upper
 228 100
 226 28.4 22.4 33.6
 229 22.0 16.5 24.7





#83

Chrysene

Concen: 27.480 ng

RT: 21.918 min Scan# 31

Delta R.T. 0.009 min

Lab File: BG056630.D

Acq: 13 Feb 2023 22:12

Instrument :

BNA_G

ClientSampleId :

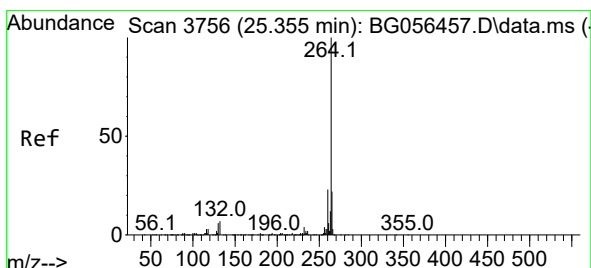
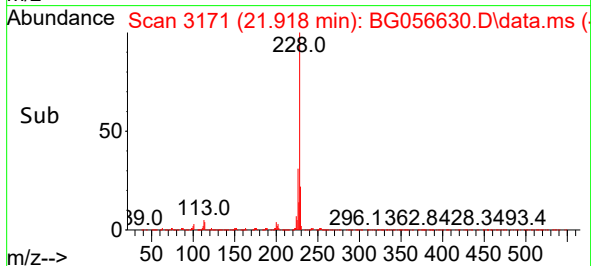
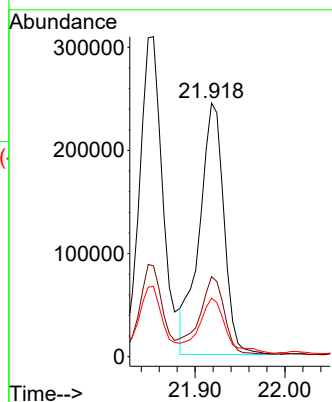
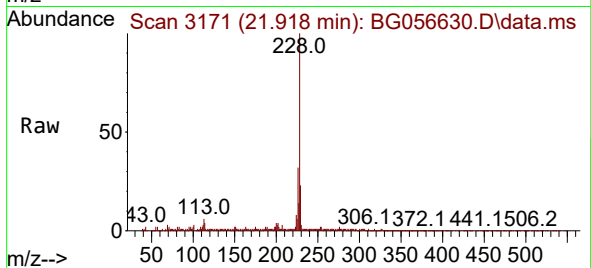
Tgt Ion:228 Resp: 464600

Ion Ratio Lower Upper

228 100

226 31.6 25.0 37.4

229 23.1 16.4 24.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.267 min Scan# 3741

Delta R.T. 0.033 min

Lab File: BG056630.D

Acq: 13 Feb 2023 22:12

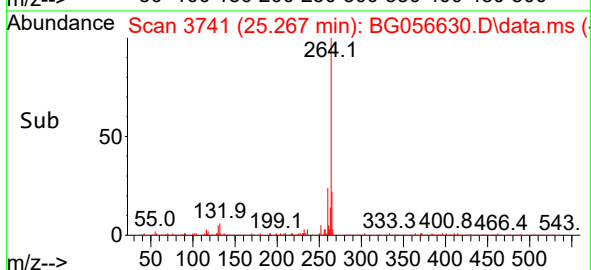
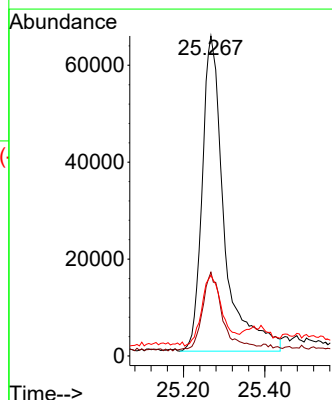
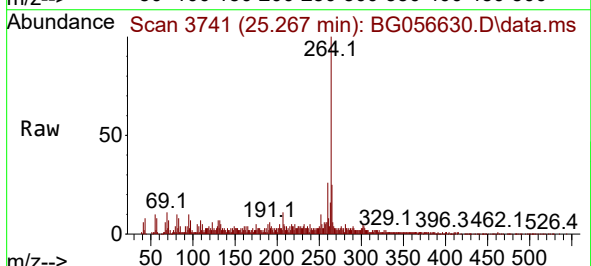
Tgt Ion:264 Resp: 245989

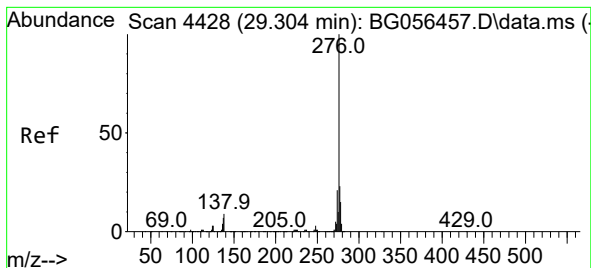
Ion Ratio Lower Upper

264 100

260 26.1 18.2 27.4

265 25.2 18.1 27.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.252 ng

RT: 29.198 min Scan# 4428

Delta R.T. 0.068 min

Lab File: BG056630.D

Acq: 13 Feb 2023 22:12

Instrument :

BNA_G

ClientSampleId :

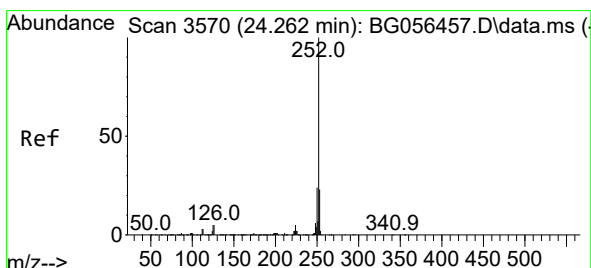
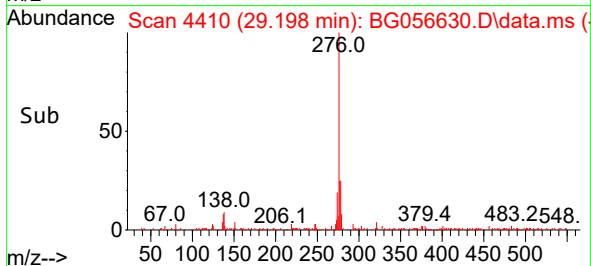
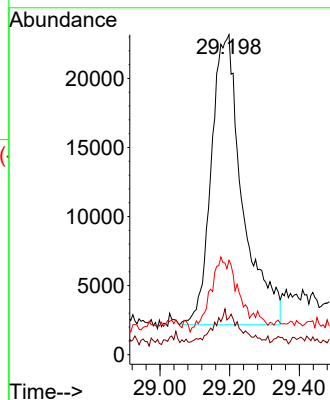
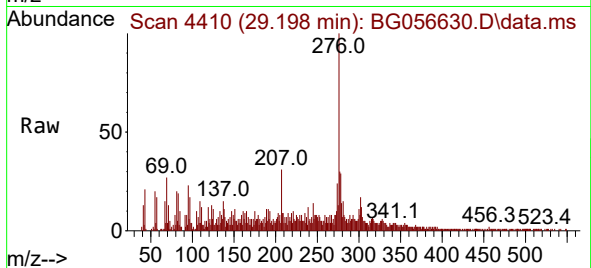
Tgt Ion:276 Resp: 130584

Ion Ratio Lower Upper

276 100

138 5.0 9.4 14.2#

277 0.0 20.3 30.5#



#88

Benzo(b)fluoranthene

Concen: 31.919 ng

RT: 24.192 min Scan# 3558

Delta R.T. 0.033 min

Lab File: BG056630.D

Acq: 13 Feb 2023 22:12

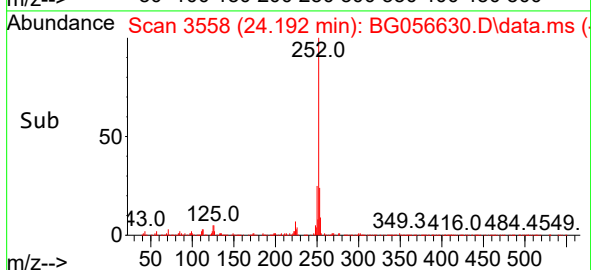
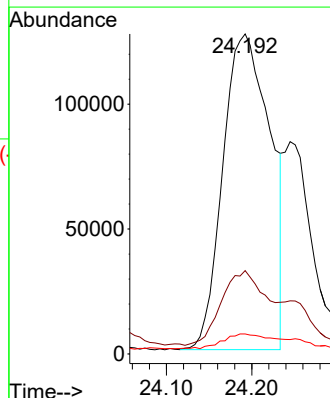
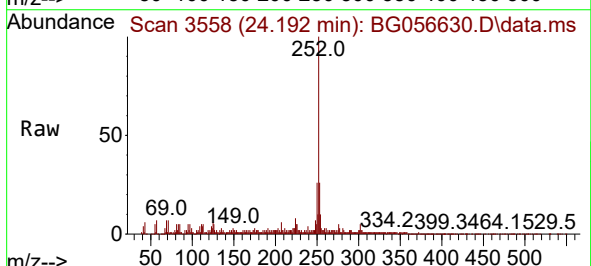
Tgt Ion:252 Resp: 487343

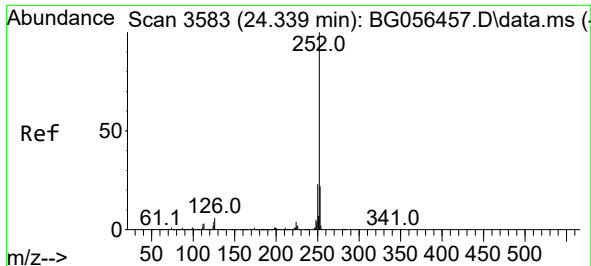
Ion Ratio Lower Upper

252 100

253 26.1 18.1 27.1

125 6.3 3.9 5.9#

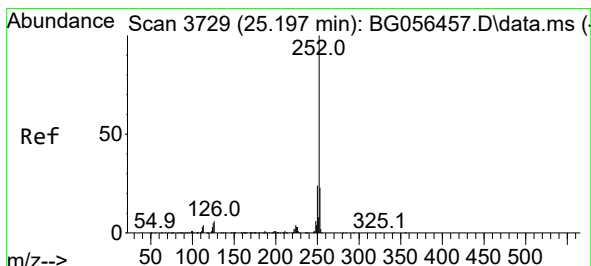
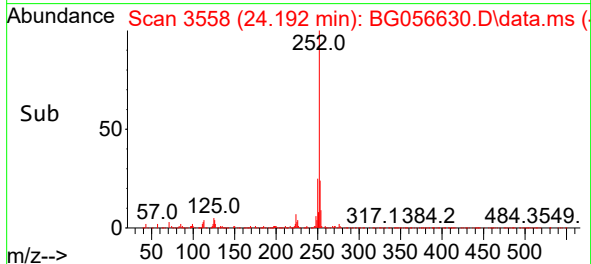
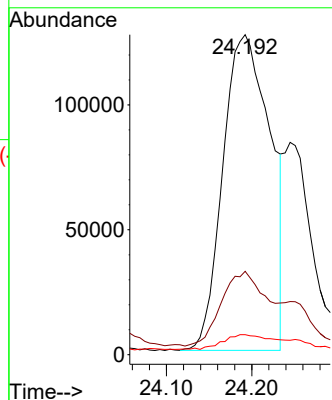
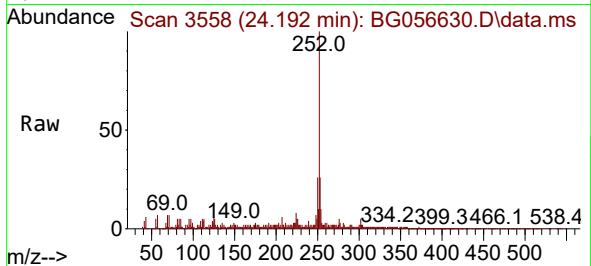




#89
Benzo(k)fluoranthene
Concen: 31.614 ng
RT: 24.192 min Scan# 31
Delta R.T. -0.038 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

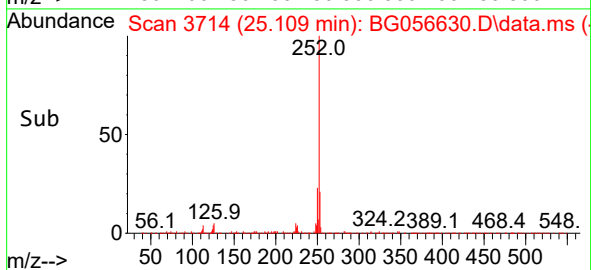
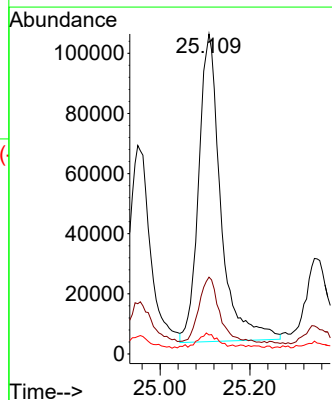
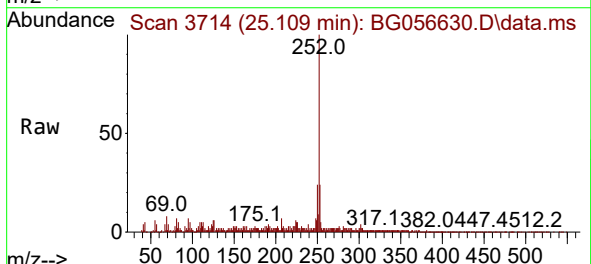
Instrument :
BNA_G
ClientSampleId :

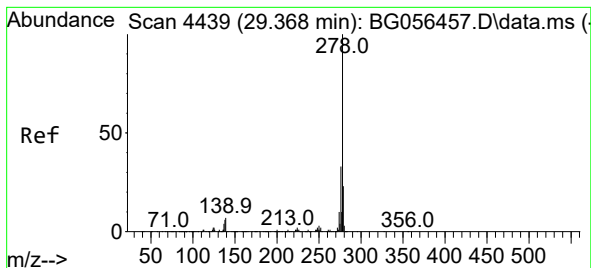
Tgt Ion:252 Resp: 487343
Ion Ratio Lower Upper
252 100
253 26.1 17.5 26.3
125 6.3 3.4 5.0#



#90
Benzo(a)pyrene
Concen: 23.223 ng
RT: 25.109 min Scan# 3714
Delta R.T. 0.027 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Tgt Ion:252 Resp: 349276
Ion Ratio Lower Upper
252 100
253 24.0 18.4 27.6
125 6.0 4.1 6.1





#91

Dibenzo(a,h)anthracene

Concen: 2.204 ng

RT: 29.204 min Scan# 4439

Delta R.T. 0.021 min

Lab File: BG056630.D

Acq: 13 Feb 2023 22:12

Instrument :

BNA_G

ClientSampleId :

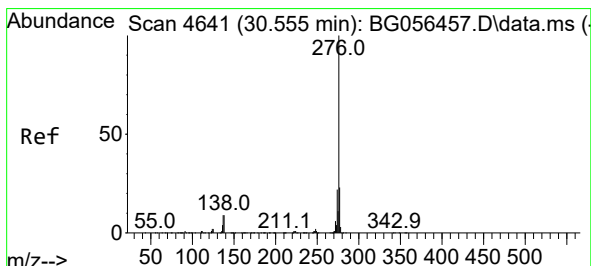
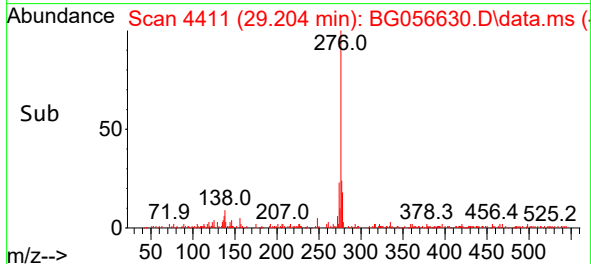
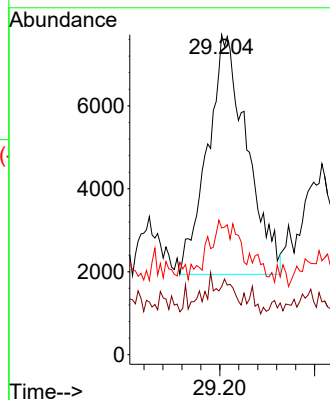
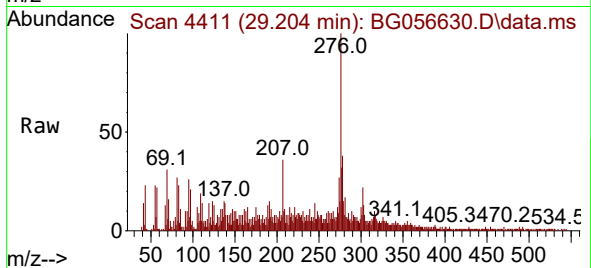
Tgt Ion:278 Resp: 33309

Ion Ratio Lower Upper

278 100

139 21.3 5.5 8.3#

279 39.6 18.8 28.2#



#92

Benzo(g,h,i)perylene

Concen: 6.493 ng

RT: 30.420 min Scan# 4618

Delta R.T. 0.068 min

Lab File: BG056630.D

Acq: 13 Feb 2023 22:12

Tgt Ion:276 Resp: 94694

Ion Ratio Lower Upper

276 100

277 28.6 18.5 27.7#

138 12.2 7.4 11.0#

