

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG020823\
 Data File : BG056582.D
 Acq On : 8 Feb 2023 15:05
 Operator : CG/JU
 Sample : 01477-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TR-6-020723

Quant Time: Feb 09 02:07:13 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 08 03:02:11 2023
 Response via : Initial Calibration

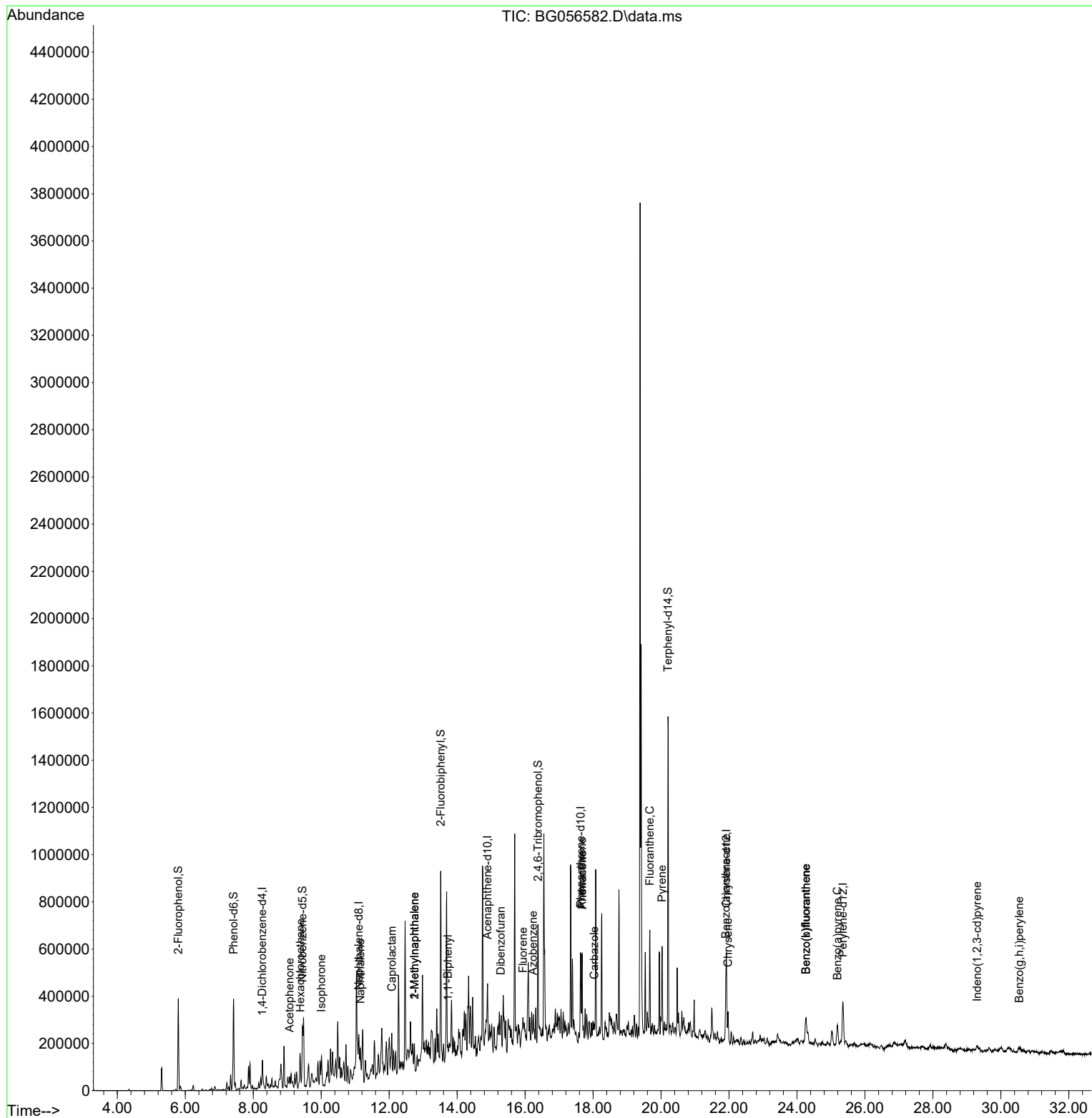
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.266	152	41982	20.000	ng	# 0.00
21) Naphthalene-d8	11.104	136	146122	20.000	ng	# 0.00
39) Acenaphthene-d10	14.894	164	99138	20.000	ng	0.00
64) Phenanthrene-d10	17.632	188	221294	20.000	ng	0.00
76) Chrysene-d12	21.921	240	222061	20.000	ng	0.00
86) Perylene-d12	25.352	264	243568	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.793	112	226927	99.435	ng	0.00
7) Phenol-d6	7.420	99	298757	88.353	ng	0.00
23) Nitrobenzene-d5	9.447	82	162847	63.285	ng	0.00
42) 2,4,6-Tribromophenol	16.380	330	109272	82.909	ng	0.00
45) 2-Fluorobiphenyl	13.519	172	462849	64.729	ng	0.00
79) Terphenyl-d14	20.205	244	745705	58.981	ng	0.00
Target Compounds						
18) Hexachloroethane	9.383	117	15560	17.599	ng	# 1
22) Acetophenone	9.071	105	34961	9.005	ng	# 62
25) Isophorone	10.006	82	13095	2.467	ng	# 1
31) Naphthalene	11.151	128	33581	4.354	ng	# 86
35) Caprolactam	12.080	113	10060	10.514	ng	# 1
37) 2-Methylnaphthalene	12.743	142	44668	7.025	ng	98
38) 1-Methylnaphthalene	12.743	142	44668	7.522	ng	93
46) 1,1'-Biphenyl	13.731	154	19720	2.742	ng	98
55) Dibenzofuran	15.288	168	22313	2.294	ng	# 81
58) Fluorene	15.934	166	32201	4.161	ng	# 90
63) Azobenzene	16.234	77	10910	2.105	ng	# 1
71) Phenanthrene	17.679	178	227720	19.661	ng	100
72) Anthracene	17.679	178	227720	19.153	ng	97
73) Carbazole	18.031	167	20340	2.009	ng	# 78
75) Fluoranthene	19.671	202	283685	19.407	ng	98
78) Pyrene	20.029	202	262868	16.644	ng	98
81) Benzo(a)anthracene	21.903	228	127288	8.199	ng	99
83) Chrysene	21.968	228	116414	7.982	ng	97
87) Indeno(1,2,3-cd)pyrene	29.301	276	50167	2.814	ng	# 60
88) Benzo(b)fluoranthene	24.259	252	147187	9.736	ng	# 97
89) Benzo(k)fluoranthene	24.259	252	147187	9.643	ng	# 95
90) Benzo(a)pyrene	25.188	252	104094	6.990	ng	98
92) Benzo(g,h,i)perylene	30.540	276	45997	3.185	ng	# 93

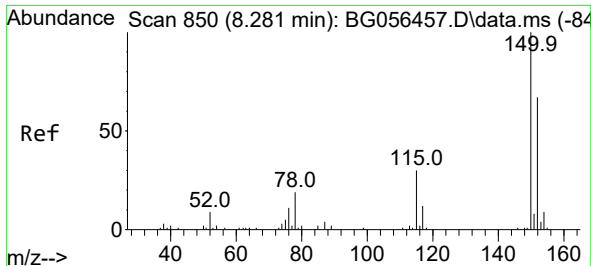
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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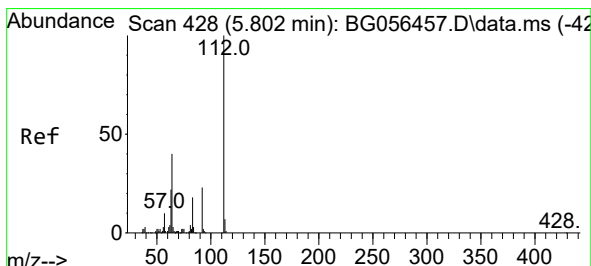
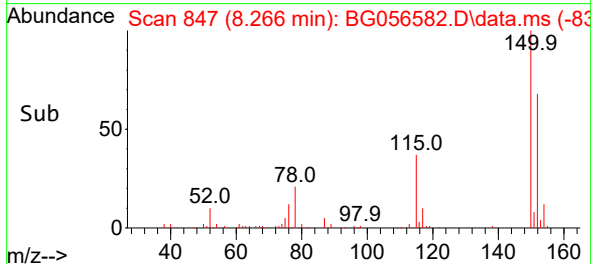
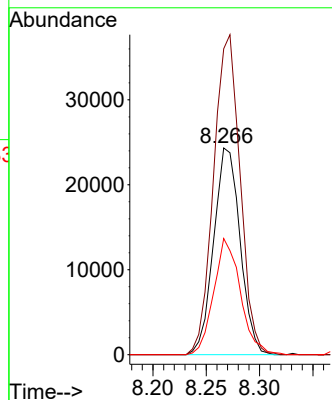
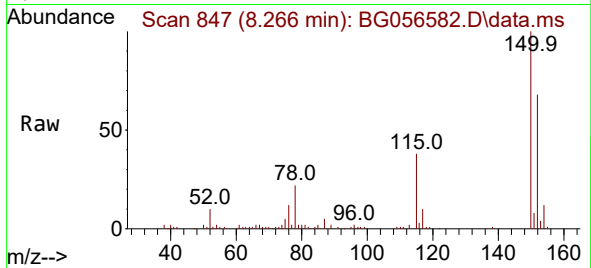




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.266 min Scan# 84
Delta R.T. -0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

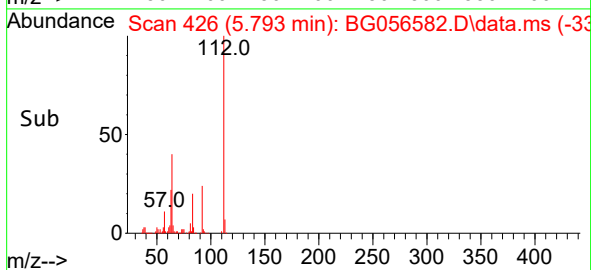
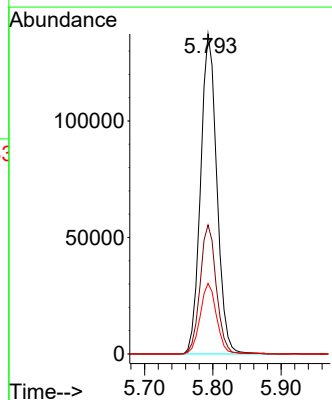
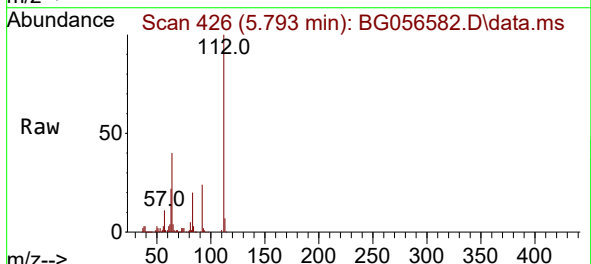
Instrument :
BNA_G
ClientSampleId :
TR-6-020723

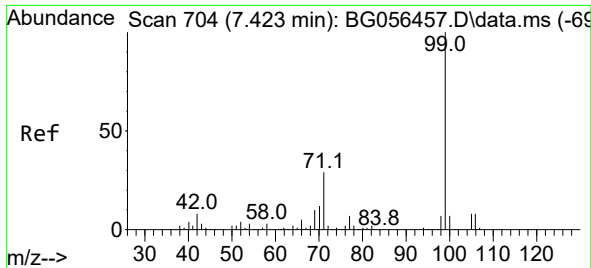
Tgt Ion:152 Resp: 41982
Ion Ratio Lower Upper
152 100
150 148.0 120.2 180.4
115 56.2 36.3 54.5#



#5
2-Fluorophenol
Concen: 99.435 ng
RT: 5.793 min Scan# 426
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Tgt Ion:112 Resp: 226927
Ion Ratio Lower Upper
112 100
64 40.3 31.9 47.9
63 22.0 17.4 26.0





#7

Phenol-d6

Concen: 88.353 ng

RT: 7.420 min Scan# 704

Delta R.T. 0.003 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

Instrument :

BNA_G

ClientSampleId :

TR-6-020723

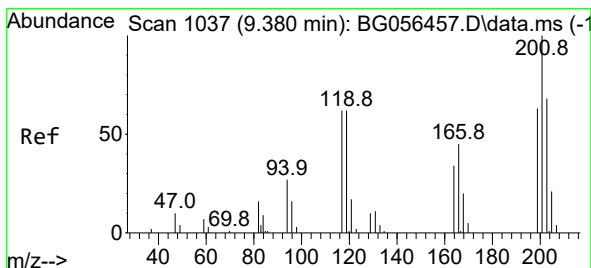
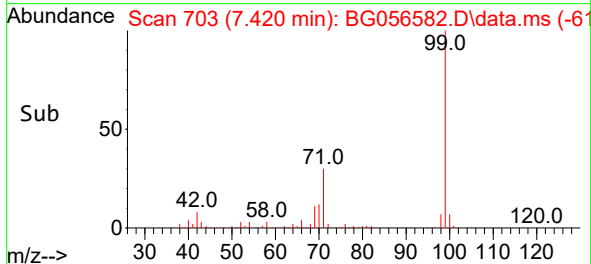
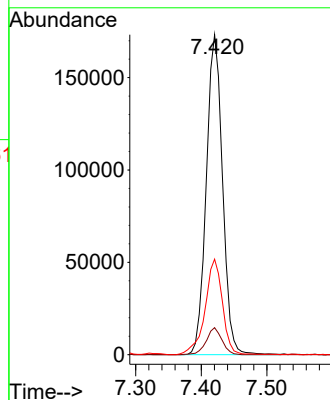
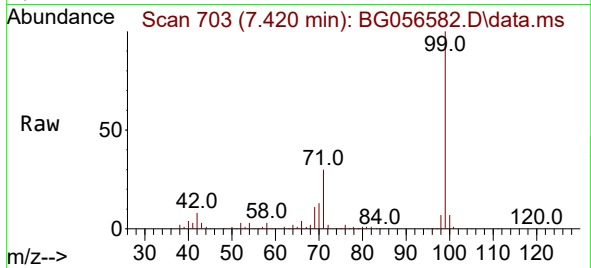
Tgt Ion: 99 Resp: 298757

Ion Ratio Lower Upper

99 100

42 8.5 6.6 10.0

71 29.8 23.4 35.0



#18

Hexachloroethane

Concen: 17.599 ng

RT: 9.383 min Scan# 1037

Delta R.T. 0.020 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

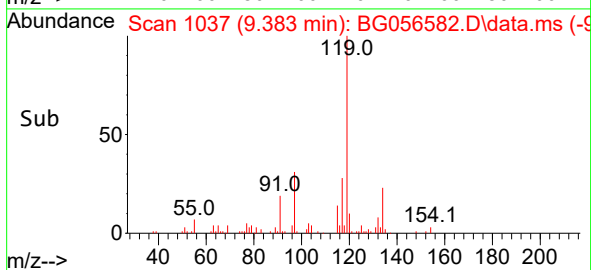
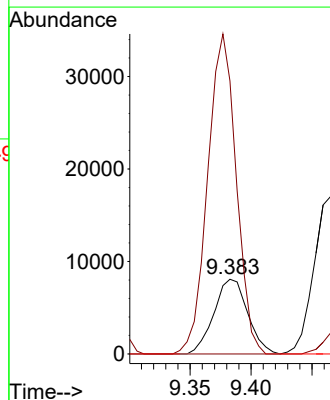
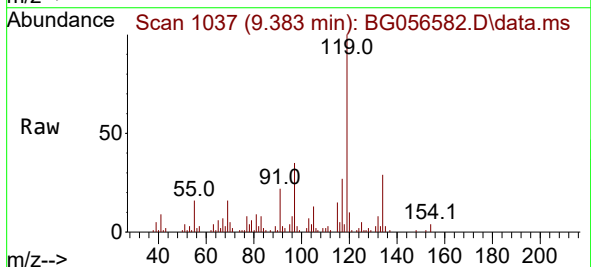
Tgt Ion: 117 Resp: 15560

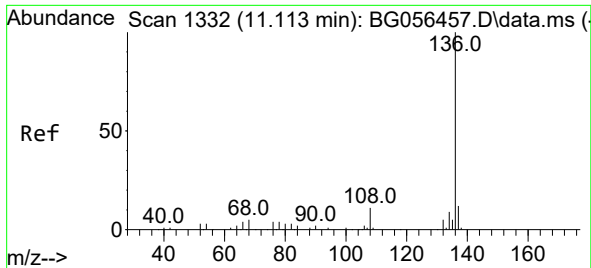
Ion Ratio Lower Upper

117 100

119 365.0 79.4 119.0#

201 0.0 128.5 192.7#

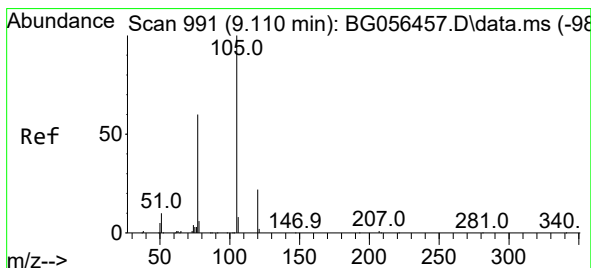
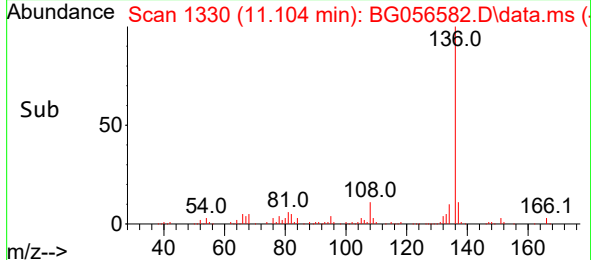
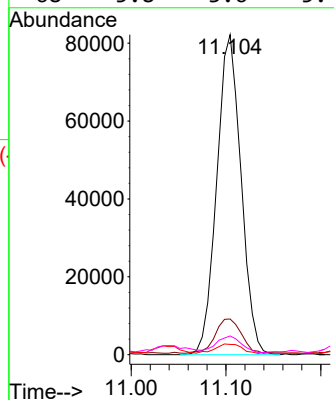
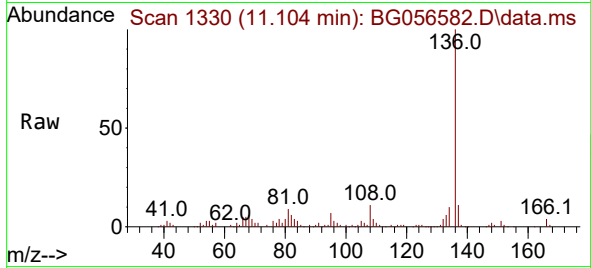




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.104 min Scan# 11
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

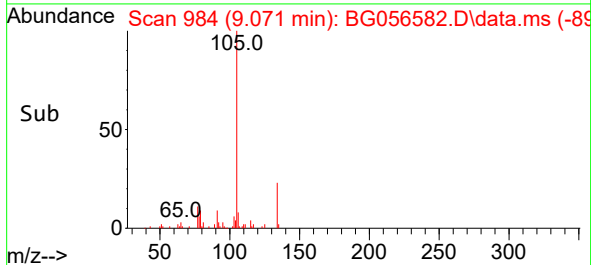
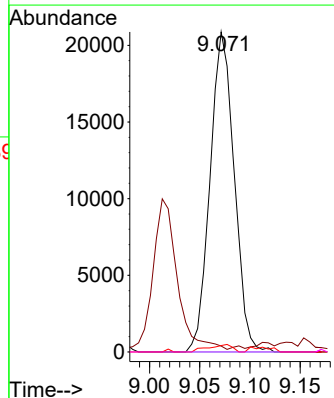
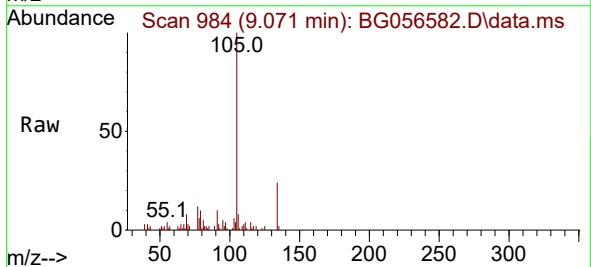
Instrument :
BNA_G
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TR-6-020723

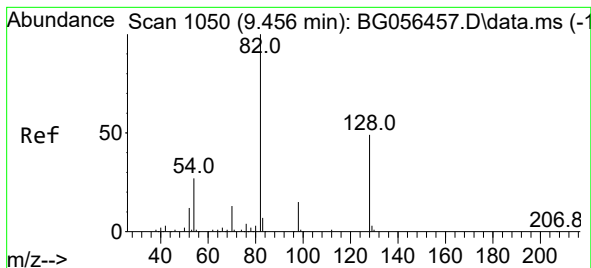
Tgt Ion:136 Resp: 146122
Ion Ratio Lower Upper
136 100
137 11.2 9.4 14.0
54 3.2 2.2 3.4
68 5.8 3.6 5.4#



#22
Acetophenone
Concen: 9.005 ng
RT: 9.071 min Scan# 984
Delta R.T. -0.027 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Tgt Ion:105 Resp: 34961
Ion Ratio Lower Upper
105 100
71 1.9 0.6 0.8#
51 2.0 9.2 13.8#
120 0.0 17.4 26.0#





#23

Nitrobenzene-d5

Concen: 63.285 ng

RT: 9.447 min Scan# 1048

Delta R.T. 0.003 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

Instrument :

BNA_G

ClientSampleId :

TR-6-020723

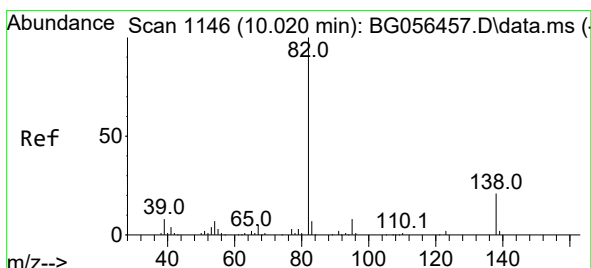
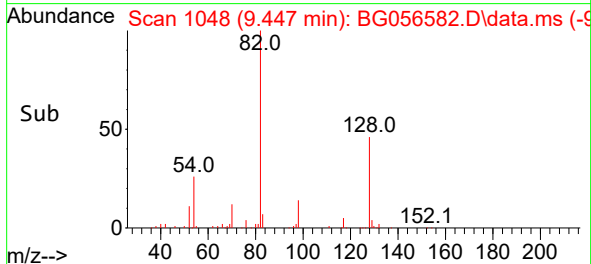
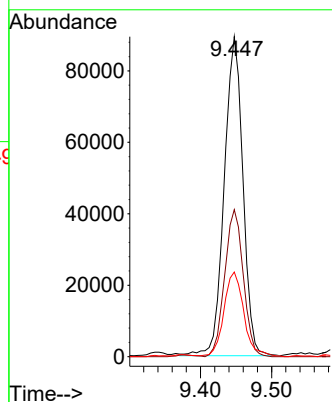
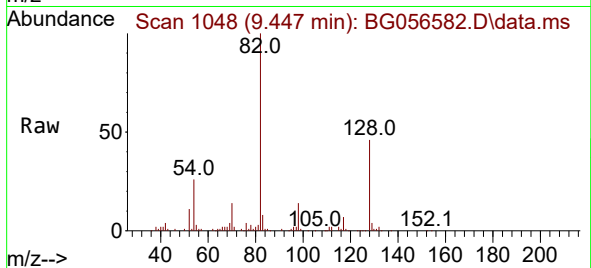
Tgt Ion: 82 Resp: 162847

Ion Ratio Lower Upper

82 100

128 46.0 39.4 59.2

54 26.5 21.4 32.2



#25

Isophorone

Concen: 2.467 ng

RT: 10.006 min Scan# 1143

Delta R.T. -0.003 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

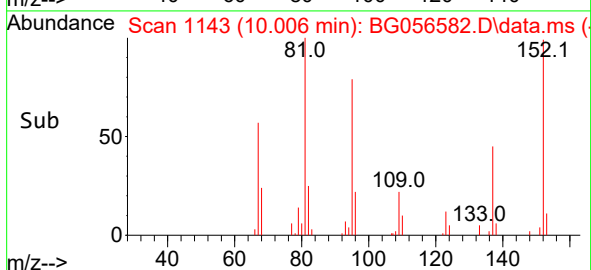
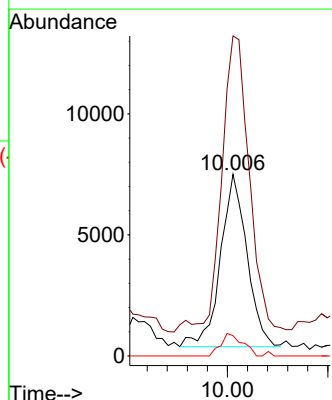
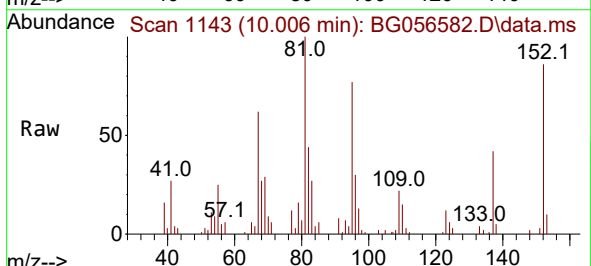
Tgt Ion: 82 Resp: 13095

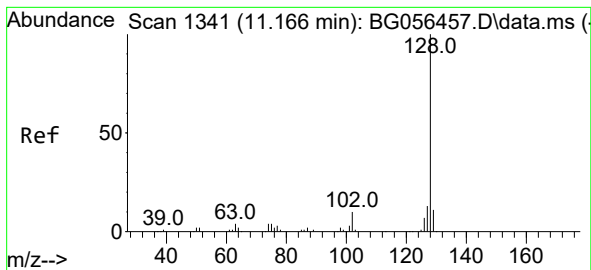
Ion Ratio Lower Upper

82 100

95 176.3 6.3 9.5#

138 11.2 16.6 25.0#





#31

Naphthalene

Concen: 4.354 ng

RT: 11.151 min Scan# 11

Delta R.T. -0.003 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

Instrument :

BNA_G

ClientSampleId :

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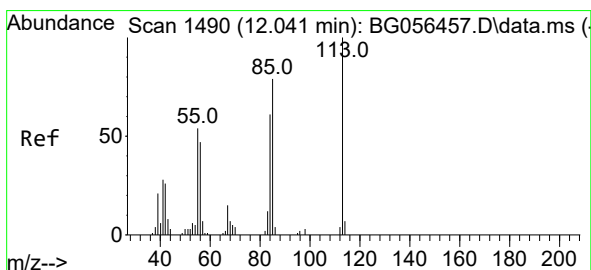
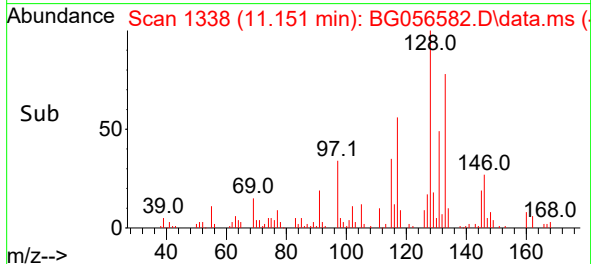
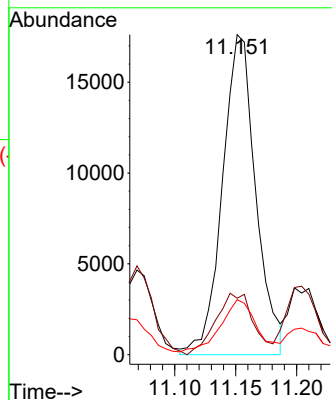
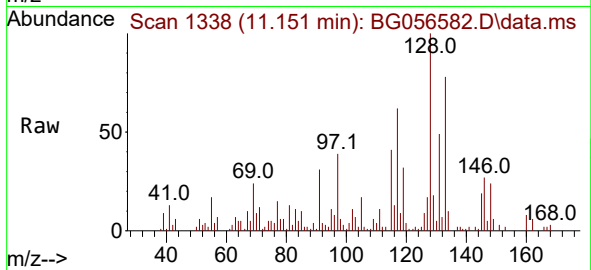
Tgt Ion:128 Resp: 33581

Ion Ratio Lower Upper

128 100

129 17.7 8.7 13.1#

127 17.2 10.4 15.6#



#35

Caprolactam

Concen: 10.514 ng

RT: 12.080 min Scan# 1496

Delta R.T. 0.044 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

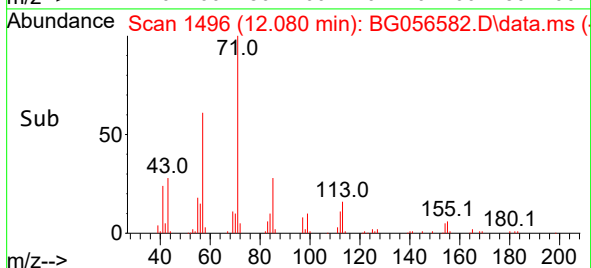
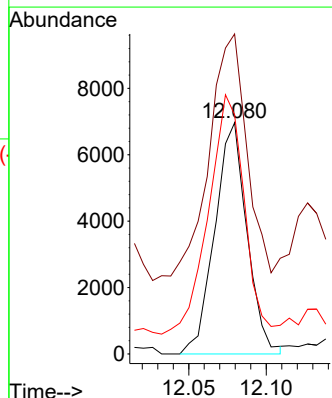
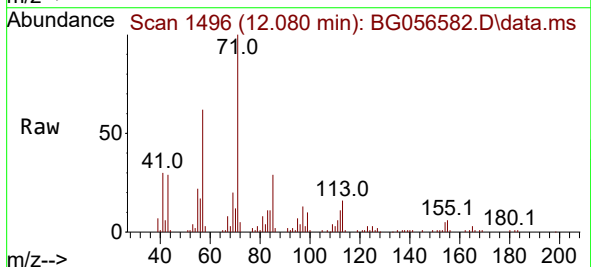
Tgt Ion:113 Resp: 10060

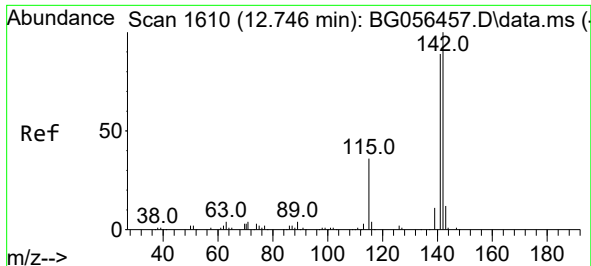
Ion Ratio Lower Upper

113 100

55 138.4 33.7 73.7#

56 103.5 27.1 67.1#





#37

2-Methylnaphthalene

Concen: 7.025 ng

RT: 12.743 min Scan# 1

Delta R.T. 0.003 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

Instrument :

BNA_G

ClientSampleId :

TR-6-020723

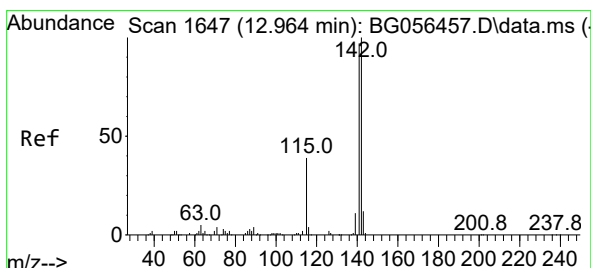
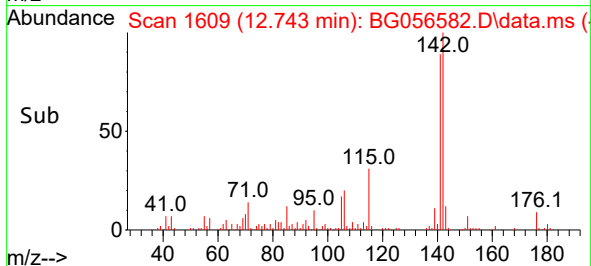
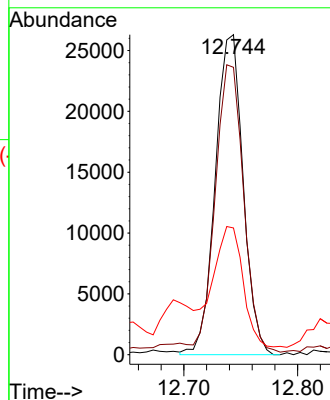
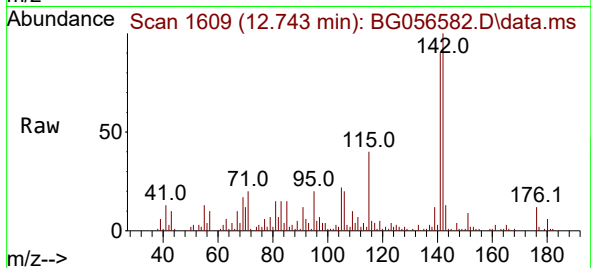
Tgt Ion:142 Resp: 44668

Ion Ratio Lower Upper

142 100

141 89.8 71.4 107.0

115 39.6 28.4 42.6



#38

1-Methylnaphthalene

Concen: 7.522 ng

RT: 12.743 min Scan# 1609

Delta R.T. -0.209 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

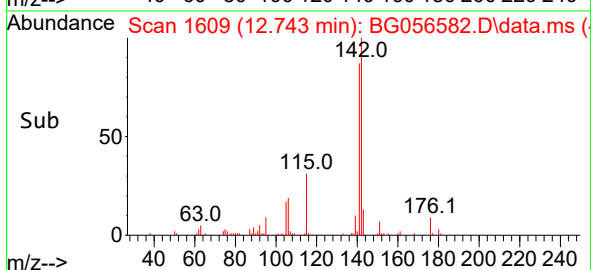
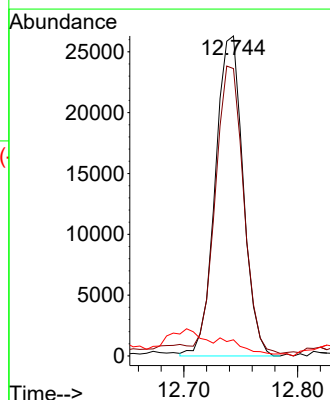
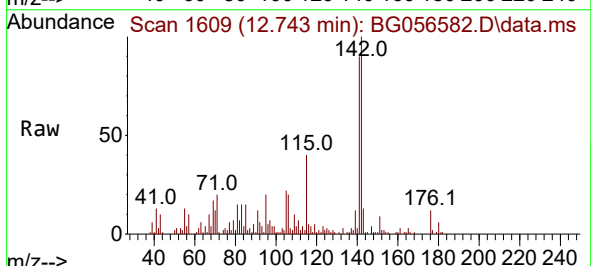
Tgt Ion:142 Resp: 44668

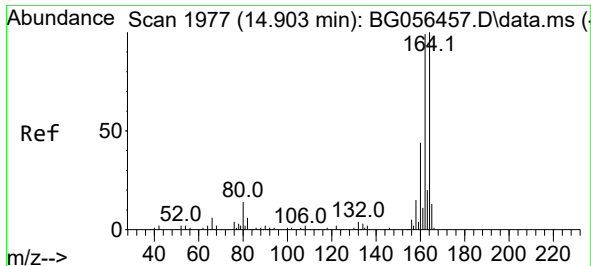
Ion Ratio Lower Upper

142 100

141 89.8 77.7 116.5

116 5.0 3.4 5.2

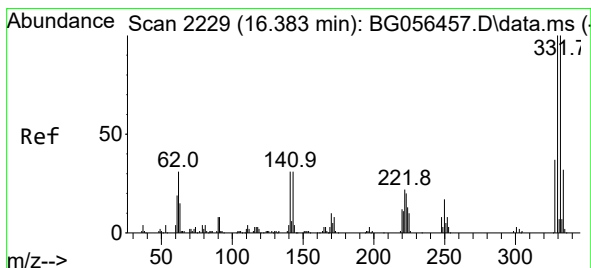
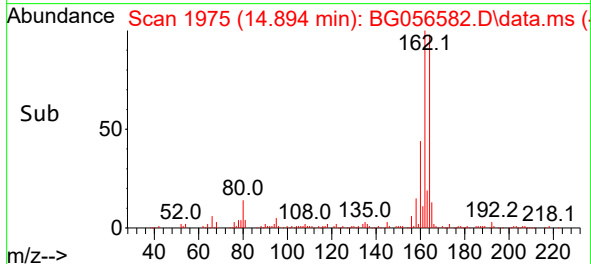
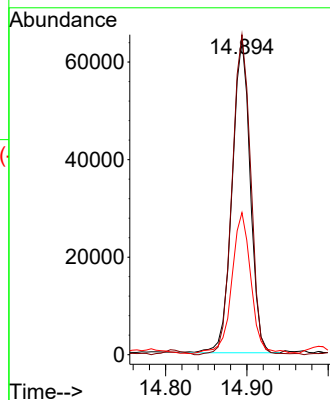
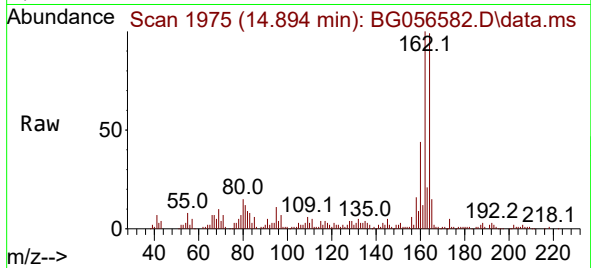




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.894 min Scan# 1977
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

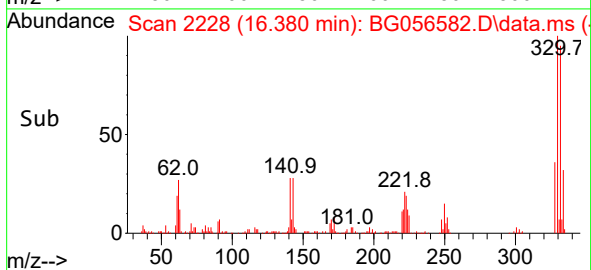
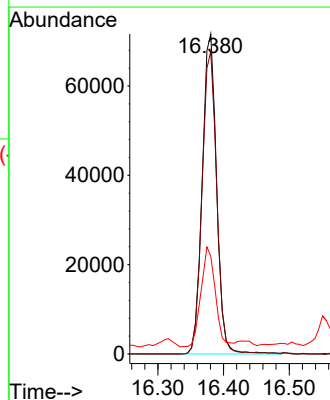
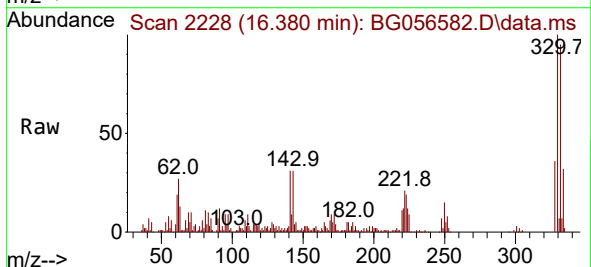
Instrument :
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TR-6-020723

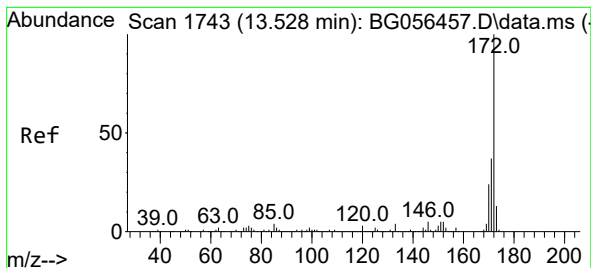
Tgt Ion:164 Resp: 99138
Ion Ratio Lower Upper
164 100
162 101.4 79.6 119.4
160 45.0 34.9 52.3



#42
2,4,6-Tribromophenol
Concen: 82.909 ng
RT: 16.380 min Scan# 2228
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Tgt Ion:330 Resp: 109272
Ion Ratio Lower Upper
330 100
332 96.3 79.0 118.6
141 31.1 24.2 36.4





#45

2-Fluorobiphenyl

Concen: 64.729 ng

RT: 13.519 min Scan# 1

Delta R.T. 0.003 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

Instrument :

BNA_G

ClientSampleId :

TR-6-020723

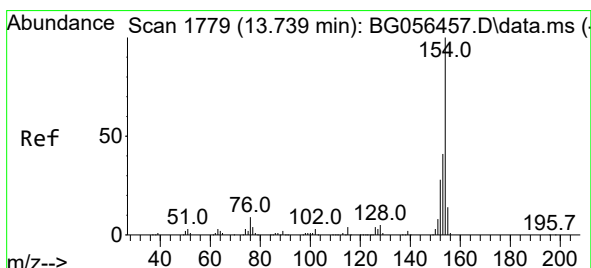
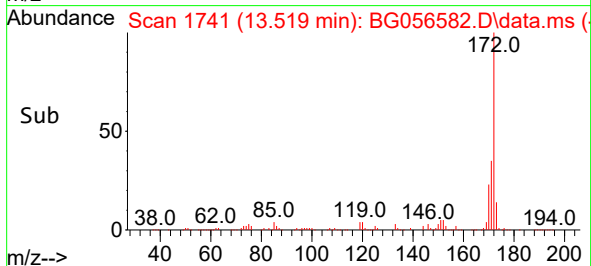
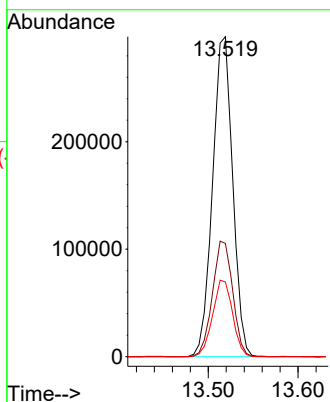
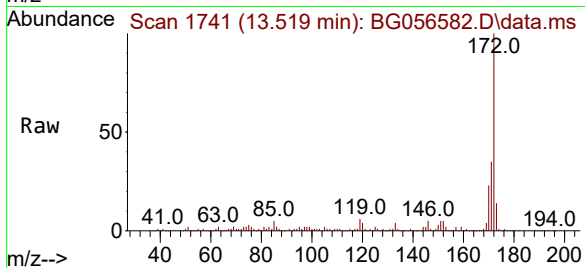
Tgt Ion:172 Resp: 462849

Ion Ratio Lower Upper

172 100

171 35.4 29.5 44.3

170 23.3 19.2 28.8



#46

1,1'-Biphenyl

Concen: 2.742 ng

RT: 13.731 min Scan# 1777

Delta R.T. 0.003 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

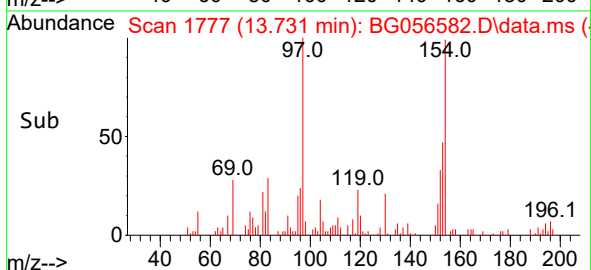
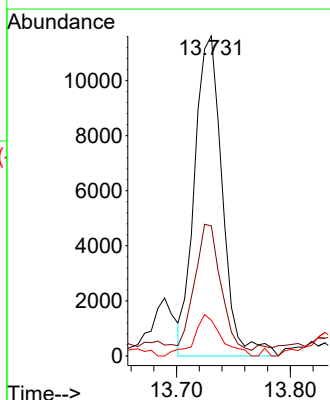
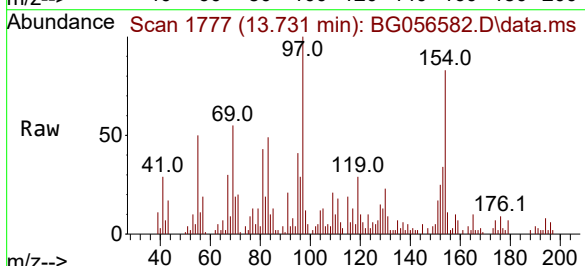
Tgt Ion:154 Resp: 19720

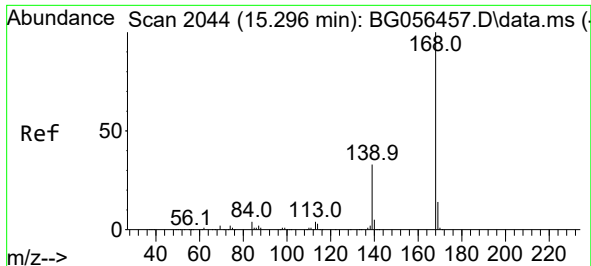
Ion Ratio Lower Upper

154 100

153 40.6 21.5 61.5

76 11.2 0.0 28.8

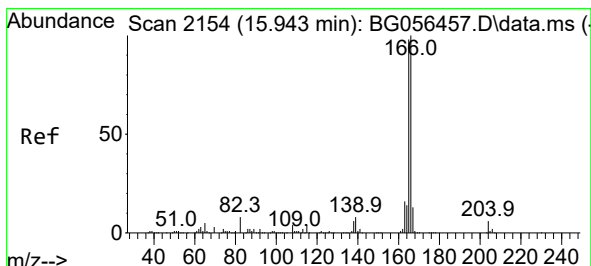
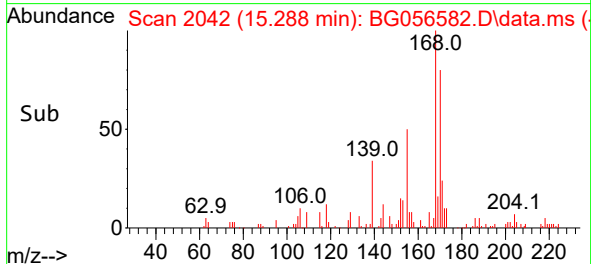
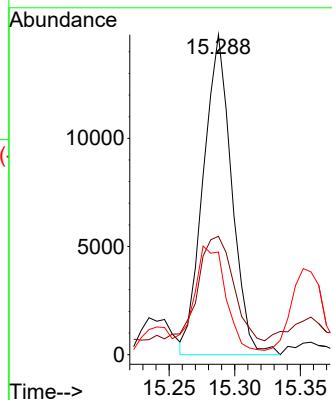
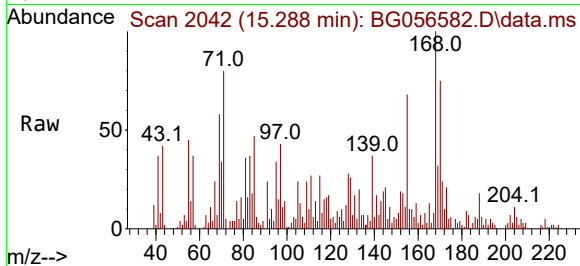




#55
Dibenzenofuran
Concen: 2.294 ng
RT: 15.288 min Scan# 2042
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

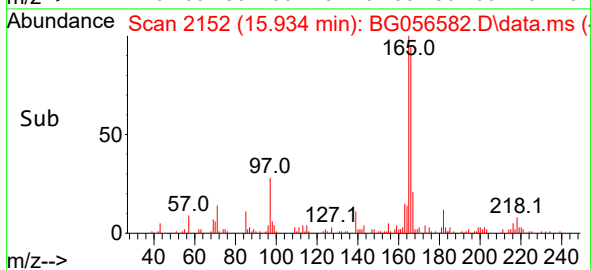
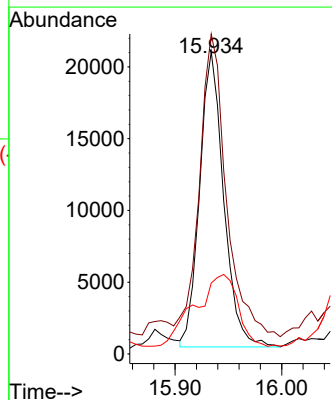
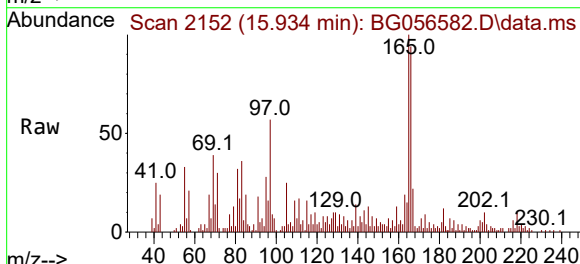
Instrument :
BNA_G
ClientSampleId :
TR-6-020723

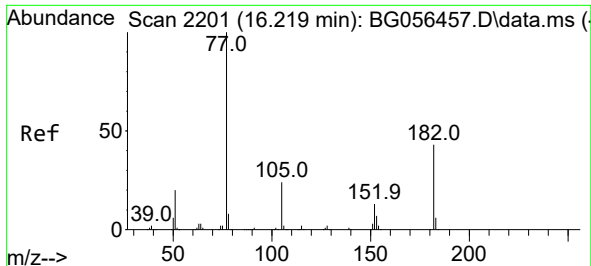
Tgt Ion:168 Resp: 22313
Ion Ratio Lower Upper
168 100
139 37.0 26.2 39.2
169 32.1 11.0 16.6#



#58
Fluorene
Concen: 4.161 ng
RT: 15.934 min Scan# 2152
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Tgt Ion:166 Resp: 32201
Ion Ratio Lower Upper
166 100
165 105.9 78.8 118.2
167 23.4 10.6 15.8#

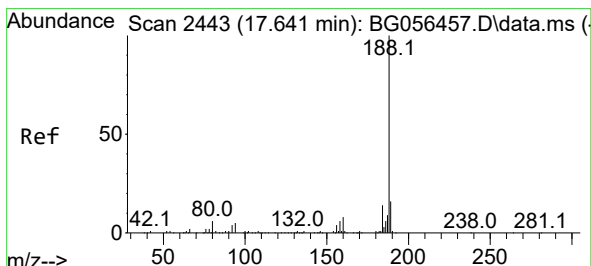
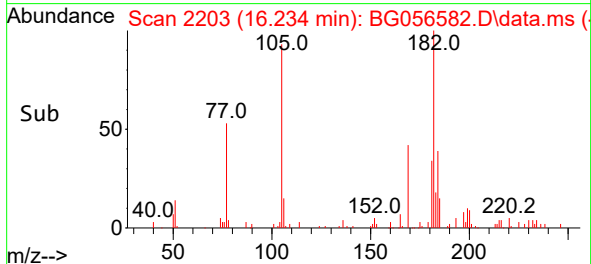
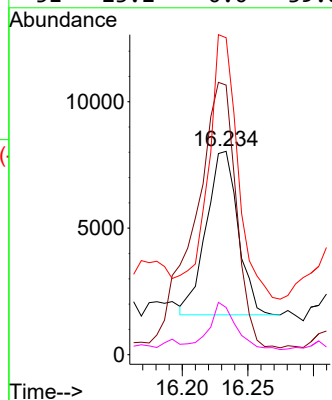
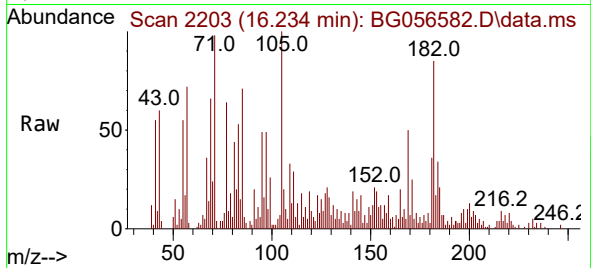




#63
Azobenzene
Concen: 2.105 ng
RT: 16.234 min Scan# 21
Delta R.T. 0.026 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

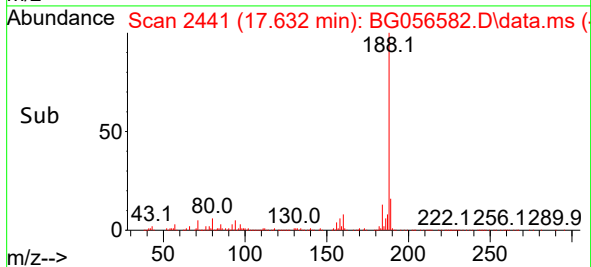
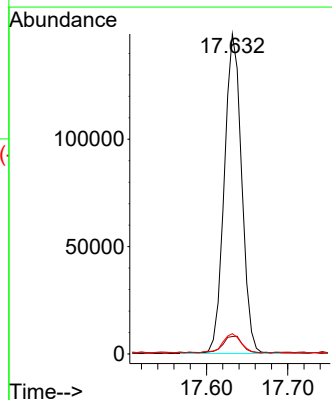
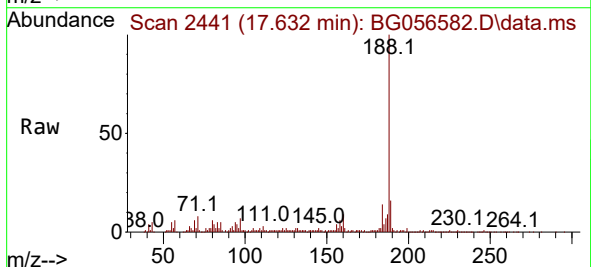
Instrument :
BNA_G
ClientSampleId :
TR-6-020723

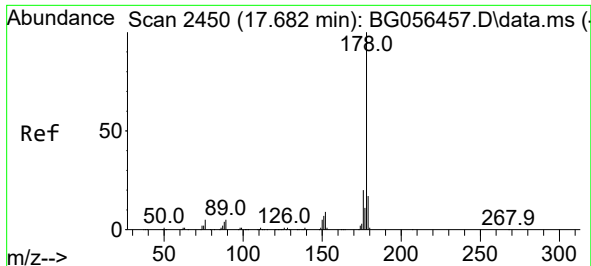
Tgt Ion: 77 Resp: 10910
Ion Ratio Lower Upper
77 100
182 132.5 23.1 63.1#
105 155.8 4.2 44.2#
51 23.2 0.0 39.8



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.632 min Scan# 2441
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Tgt Ion:188 Resp: 221294
Ion Ratio Lower Upper
188 100
94 5.5 4.1 6.1
80 6.3 5.0 7.4

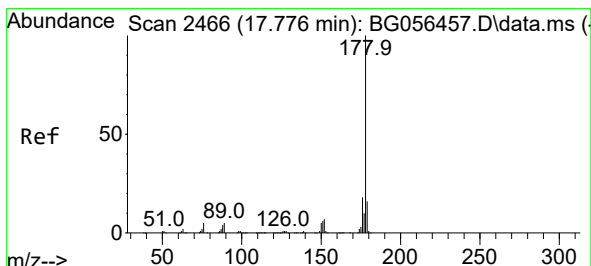
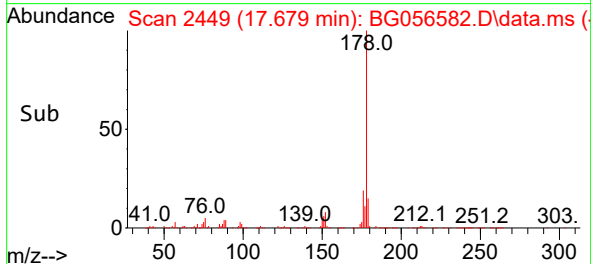
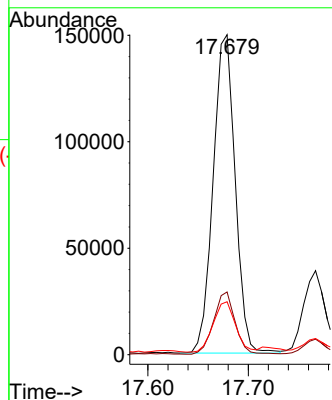
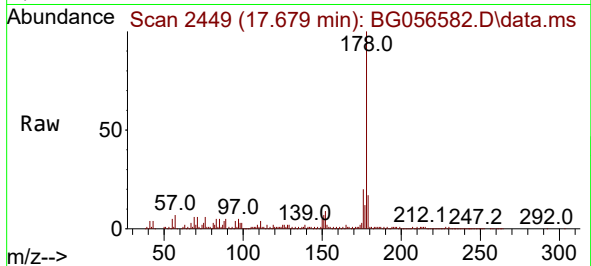




#71
Phenanthrene
Concen: 19.661 ng
RT: 17.679 min Scan# 2449
Delta R.T. 0.009 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

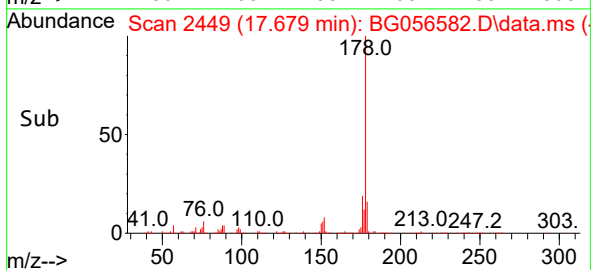
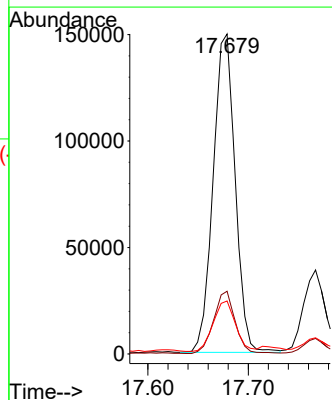
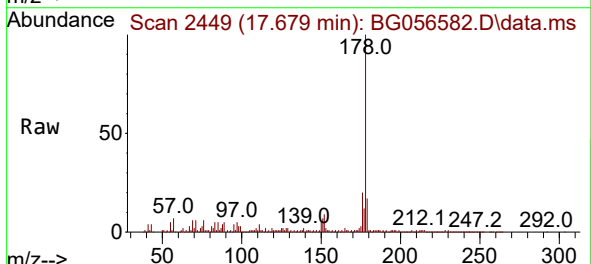
Instrument :
BNA_G
ClientSampleId :
TR-6-020723

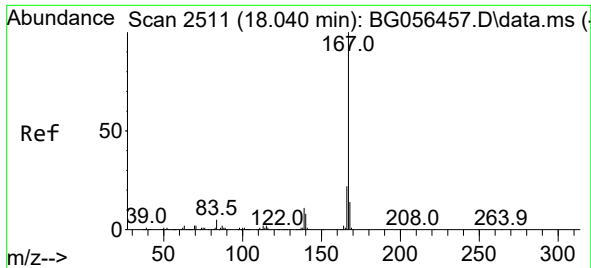
Tgt Ion:178 Resp: 227720
Ion Ratio Lower Upper
178 100
176 19.6 15.6 23.4
179 16.6 13.3 19.9



#72
Anthracene
Concen: 19.153 ng
RT: 17.679 min Scan# 2449
Delta R.T. -0.085 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Tgt Ion:178 Resp: 227720
Ion Ratio Lower Upper
178 100
176 19.6 14.5 21.7
179 16.6 12.5 18.7

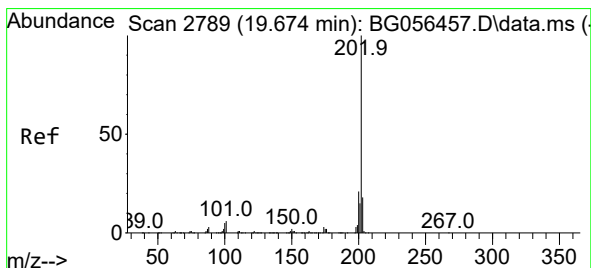
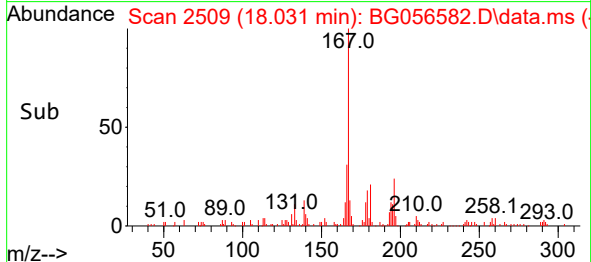
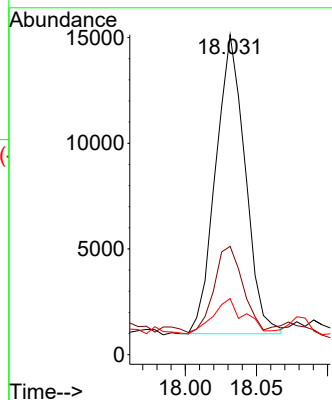
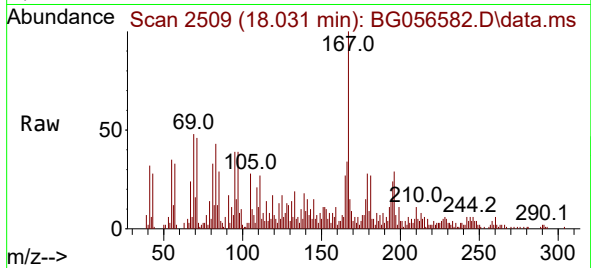




#73
 Carbazole
 Concen: 2.009 ng
 RT: 18.031 min Scan# 2509
 Delta R.T. 0.003 min
 Lab File: BG056582.D
 Acq: 8 Feb 2023 15:05

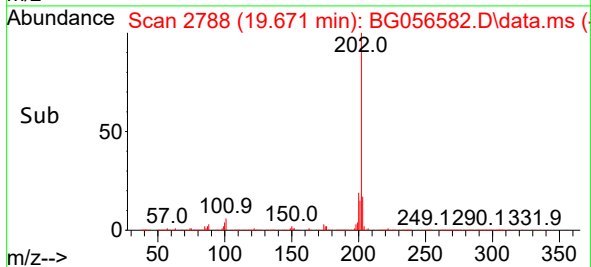
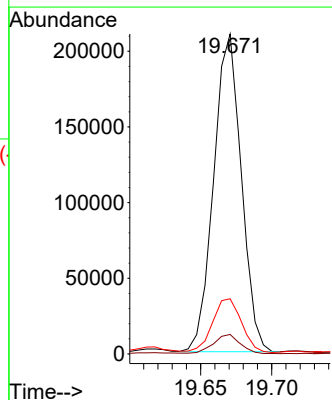
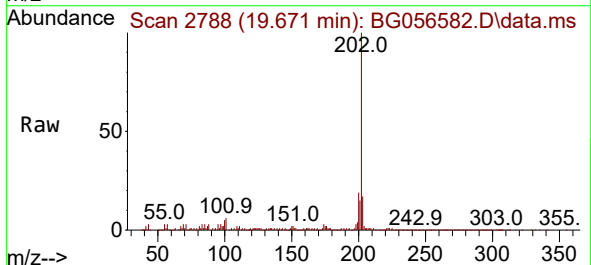
Instrument :
 BNA_G
 ClientSampleId :
 TR-6-020723

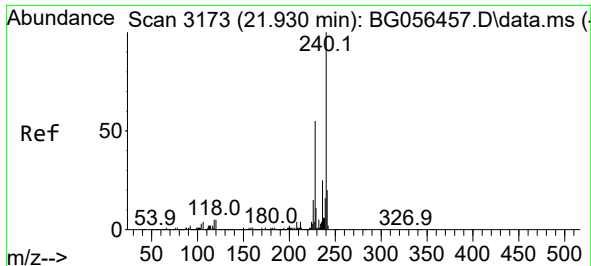
Tgt Ion:167 Resp: 20340
 Ion Ratio Lower Upper
 167 100
 166 33.8 17.8 26.6#
 139 17.6 8.9 13.3#



#75
 Fluoranthene
 Concen: 19.407 ng
 RT: 19.671 min Scan# 2788
 Delta R.T. 0.003 min
 Lab File: BG056582.D
 Acq: 8 Feb 2023 15:05

Tgt Ion:202 Resp: 283685
 Ion Ratio Lower Upper
 202 100
 101 6.1 0.0 25.6
 203 17.3 0.0 38.1

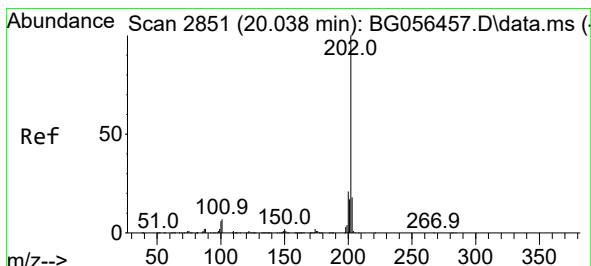
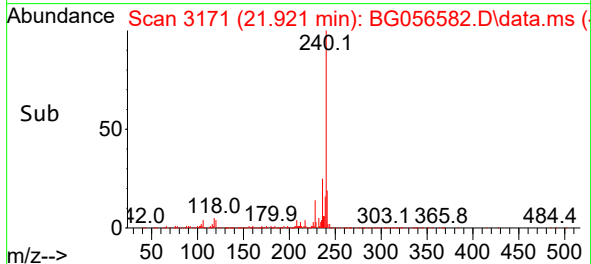
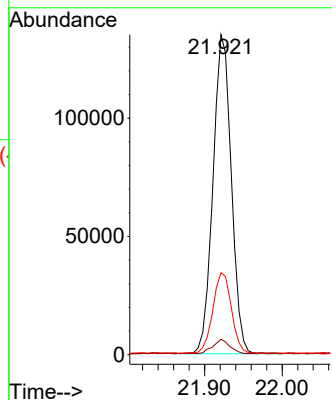
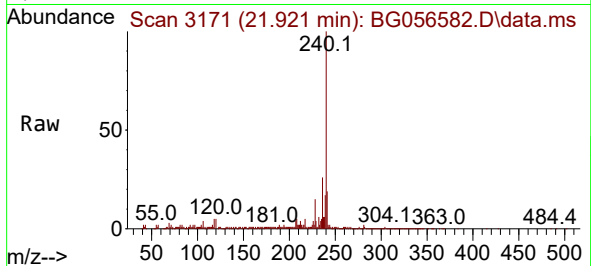




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.921 min Scan# 3173
Delta R.T. -0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

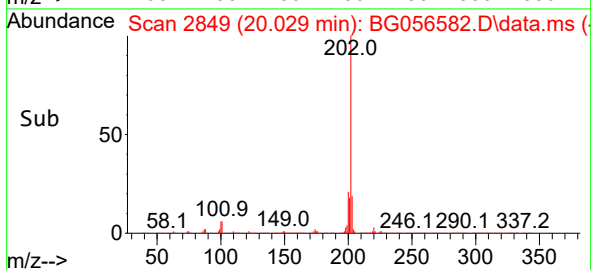
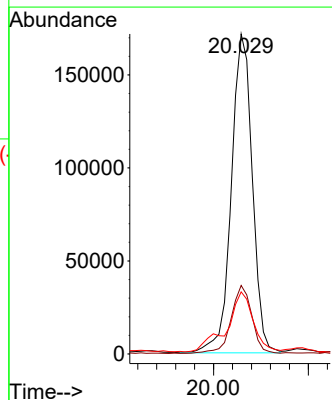
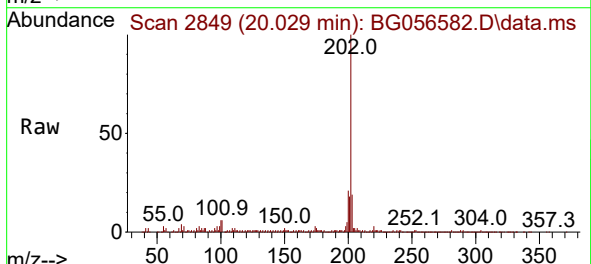
Instrument :
BNA_G
ClientSampleId :
TR-6-020723

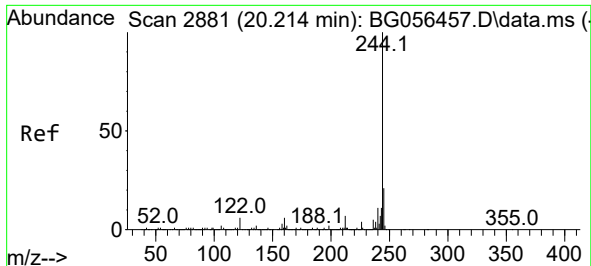
Tgt Ion:240 Resp: 222061
Ion Ratio Lower Upper
240 100
120 4.8 3.8 5.8
236 25.6 20.2 30.2



#78
Pyrene
Concen: 16.644 ng
RT: 20.029 min Scan# 2849
Delta R.T. 0.003 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Tgt Ion:202 Resp: 262868
Ion Ratio Lower Upper
202 100
200 21.4 16.7 25.1
203 19.4 14.4 21.6

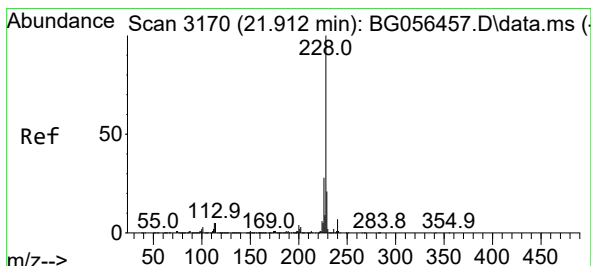
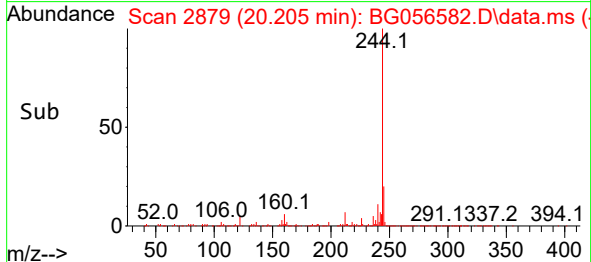
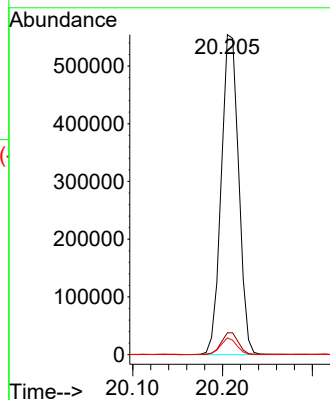
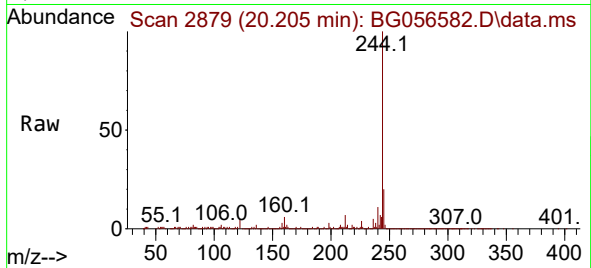




#79
 Terphenyl-d14
 Concen: 58.981 ng
 RT: 20.205 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BG056582.D
 Acq: 8 Feb 2023 15:05

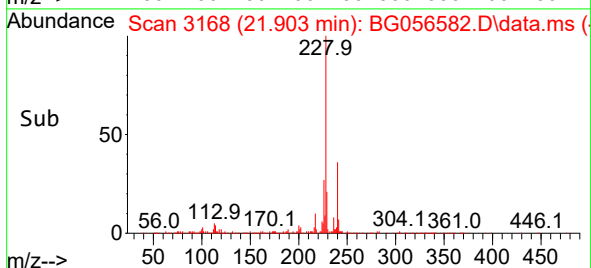
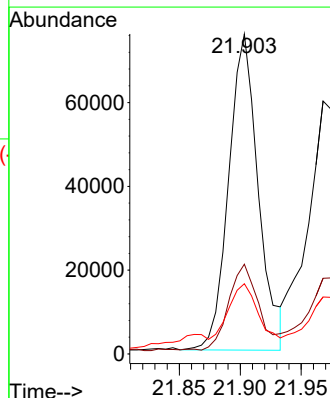
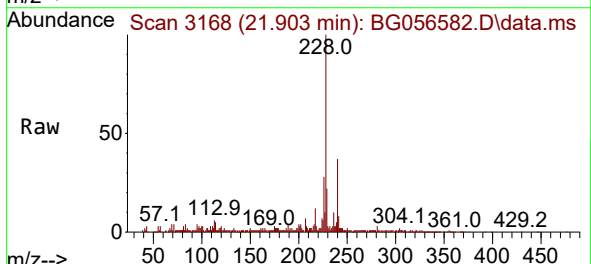
Instrument :
 BNA_G
 ClientSampleId :
 TR-6-020723

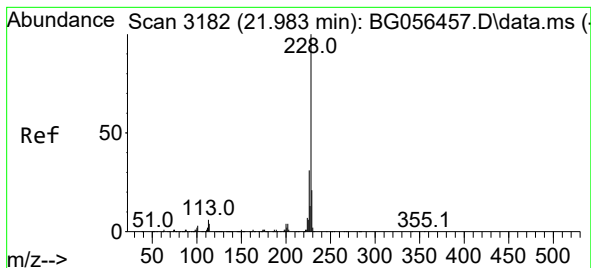
Tgt Ion:244 Resp: 745705
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.5 8.3
 122 5.3 4.4 6.6



#81
 Benzo(a)anthracene
 Concen: 8.199 ng
 RT: 21.903 min Scan# 3168
 Delta R.T. 0.003 min
 Lab File: BG056582.D
 Acq: 8 Feb 2023 15:05

Tgt Ion:228 Resp: 127288
 Ion Ratio Lower Upper
 228 100
 226 28.1 22.4 33.6
 229 22.0 16.5 24.7





#83

Chrysene

Concen: 7.982 ng

RT: 21.968 min Scan# 31

Delta R.T. -0.003 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

Instrument :

BNA_G

ClientSampleId :

TR-6-020723

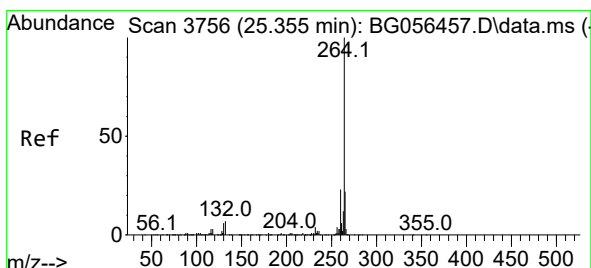
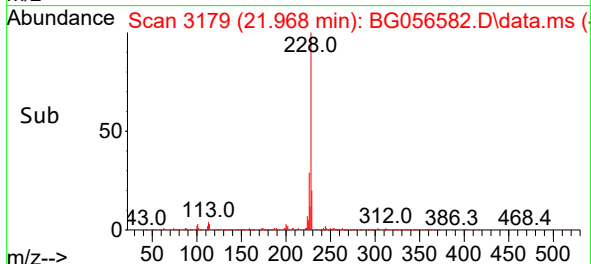
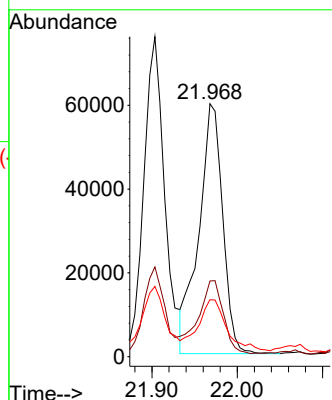
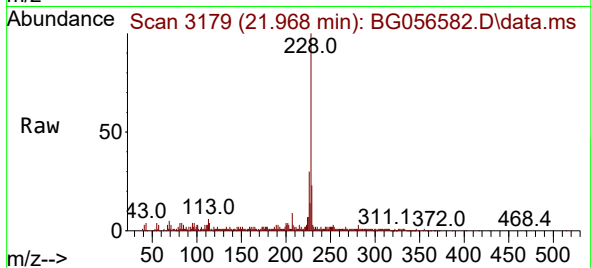
Tgt Ion:228 Resp: 116414

Ion Ratio Lower Upper

228 100

226 29.9 25.0 37.4

229 22.5 16.4 24.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.352 min Scan# 3755

Delta R.T. 0.015 min

Lab File: BG056582.D

Acq: 8 Feb 2023 15:05

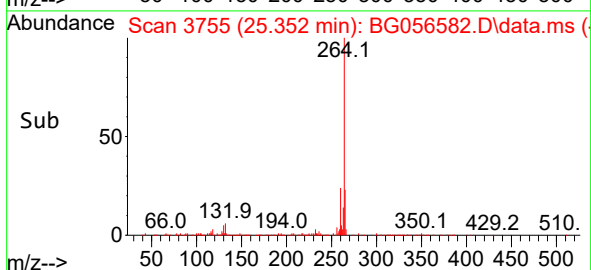
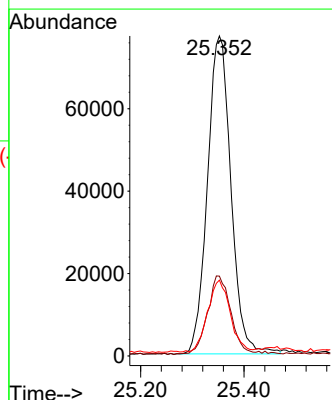
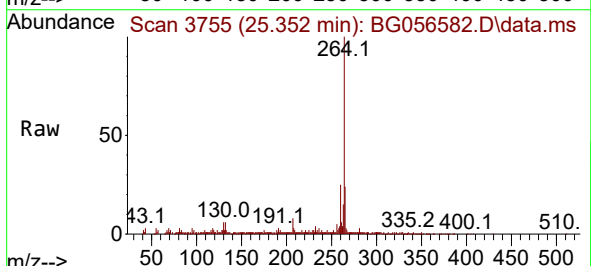
Tgt Ion:264 Resp: 243568

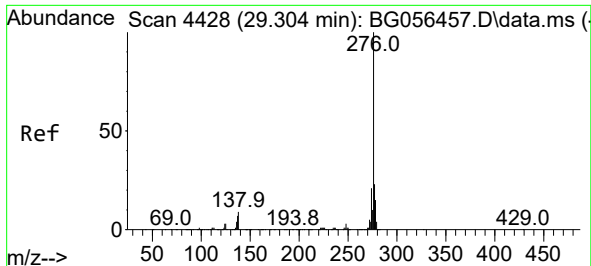
Ion Ratio Lower Upper

264 100

260 24.9 18.2 27.4

265 23.7 18.1 27.1

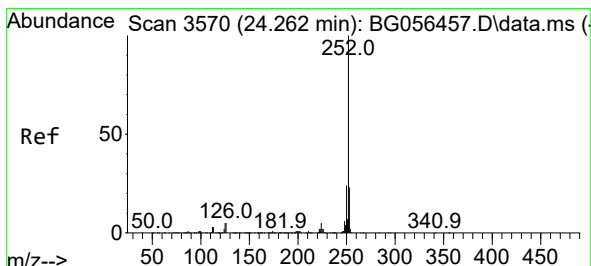
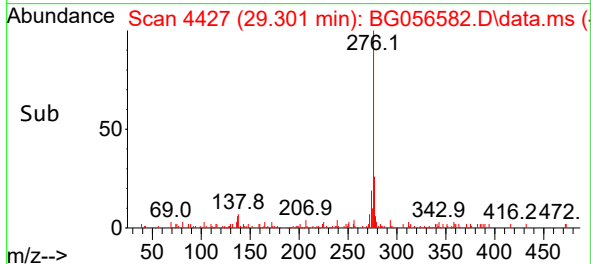
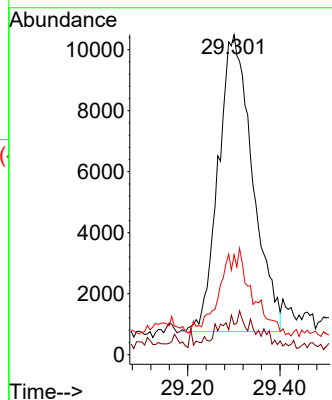
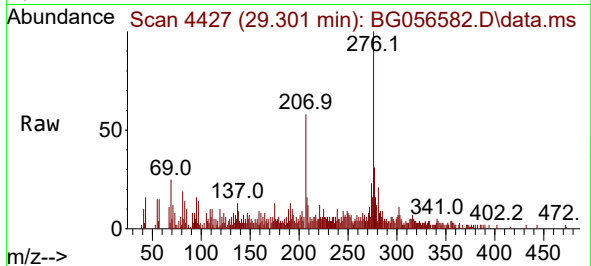




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.814 ng
 RT: 29.301 min Scan# 4428
 Delta R.T. 0.015 min
 Lab File: BG056582.D
 Acq: 8 Feb 2023 15:05

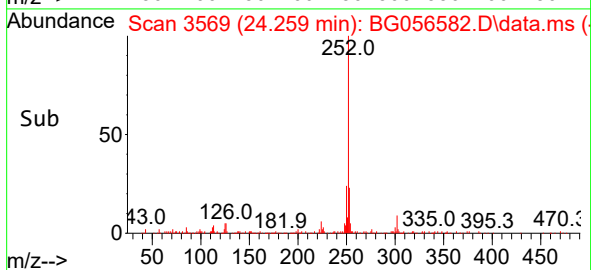
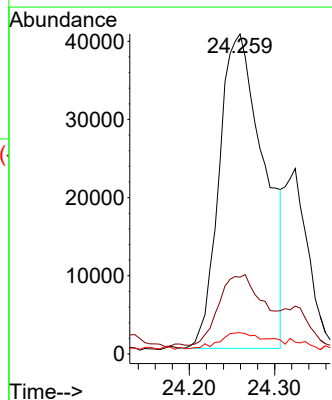
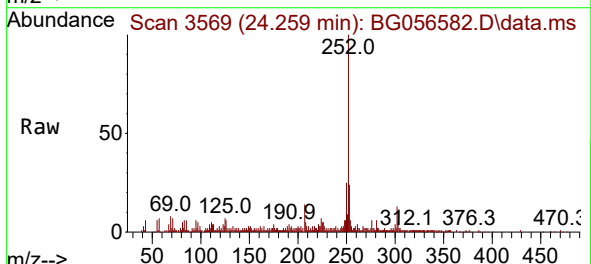
Instrument :
 BNA_G
 ClientSampleId :
 TR-6-020723

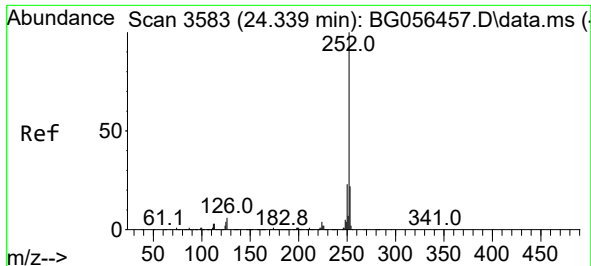
Tgt Ion:276 Resp: 50167
 Ion Ratio Lower Upper
 276 100
 138 5.3 9.4 14.2#
 277 0.0 20.3 30.5#



#88
 Benzo(b)fluoranthene
 Concen: 9.736 ng
 RT: 24.259 min Scan# 3569
 Delta R.T. 0.009 min
 Lab File: BG056582.D
 Acq: 8 Feb 2023 15:05

Tgt Ion:252 Resp: 147187
 Ion Ratio Lower Upper
 252 100
 253 24.0 18.1 27.1
 125 6.7 3.9 5.9#

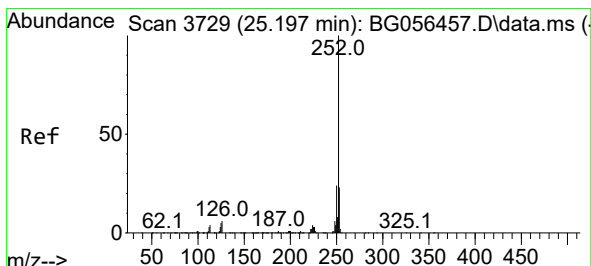
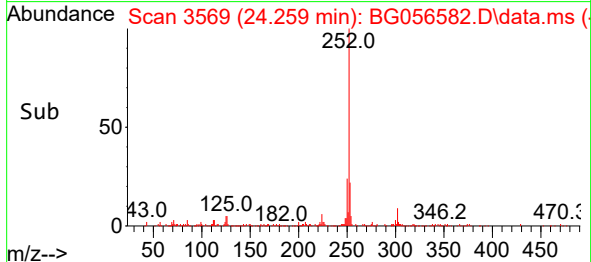
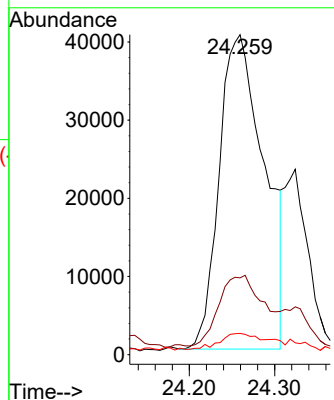
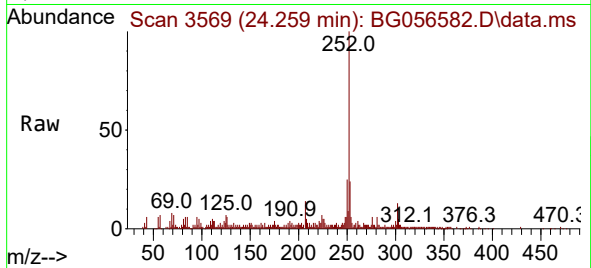




#89
Benzo(k)fluoranthene
Concen: 9.643 ng
RT: 24.259 min Scan# 3569
Delta R.T. -0.062 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

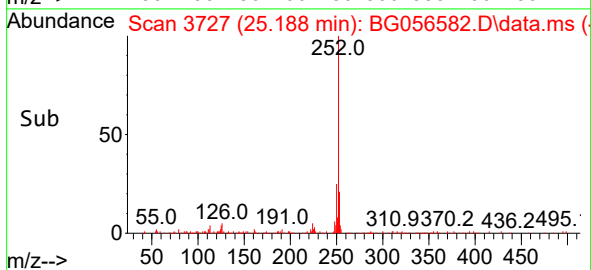
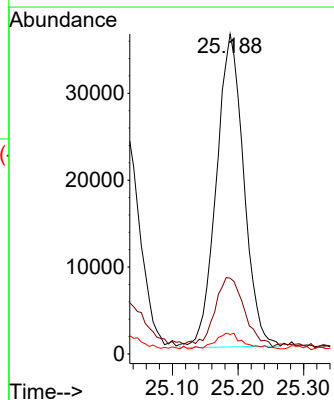
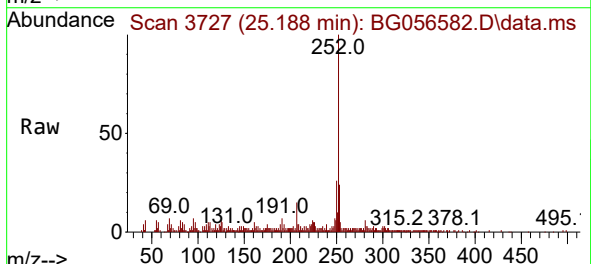
Instrument :
BNA_G
ClientSampleId :
TR-6-020723

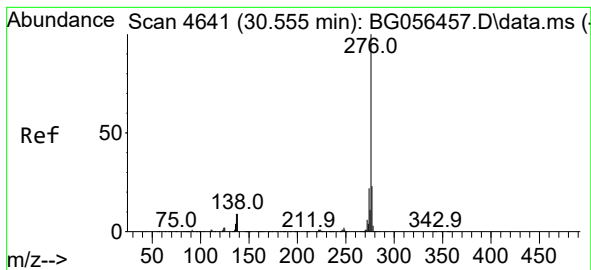
Tgt Ion:252 Resp: 147187
Ion Ratio Lower Upper
252 100
253 24.0 17.5 26.3
125 6.7 3.4 5.0#



#90
Benzo(a)pyrene
Concen: 6.990 ng
RT: 25.188 min Scan# 3727
Delta R.T. 0.009 min
Lab File: BG056582.D
Acq: 8 Feb 2023 15:05

Tgt Ion:252 Resp: 104094
Ion Ratio Lower Upper
252 100
253 23.7 18.4 27.6
125 6.1 4.1 6.1





#92

Benzo(g,h,i)perylene

Concen: 3.185 ng

RT: 30.540 min Scan# 4

Delta R.T. 0.015 min

Lab File: BG056582.D

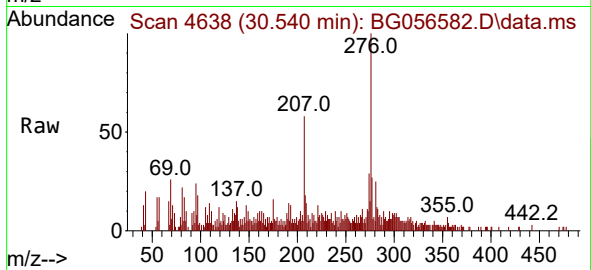
Acq: 8 Feb 2023 15:05

Instrument :

BNA_G

ClientSampleId :

TR-6-020723



Tgt Ion:276 Resp: 45997

Ion Ratio Lower Upper

276 100

277 26.6 18.5 27.7

138 12.2 7.4 11.0#

