

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG112222\
 Data File : BG055751.D
 Acq On : 22 Nov 2022 22:45
 Operator : CG/JU
 Sample : N5723-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

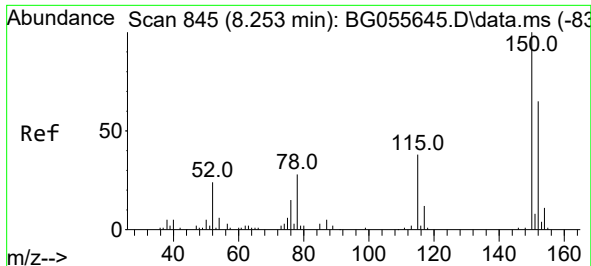
Instrument :
 BNA_G
 ClientSampleId :
 OR-3-111822

Quant Time: Nov 23 01:41:42 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111622.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 23 01:35:20 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.243	152	41560	20.000	ng	0.00
21) Naphthalene-d8	11.075	136	177330	20.000	ng	0.00
39) Acenaphthene-d10	14.865	164	118438	20.000	ng	0.00
64) Phenanthrene-d10	17.609	188	247557	20.000	ng	0.00
76) Chrysene-d12	21.910	240	233171	20.000	ng	0.00
86) Perylene-d12	25.323	264	251086	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.776	112	327480	142.427	ng	0.00
7) Phenol-d6	7.391	99	433022	141.477	ng	0.00
23) Nitrobenzene-d5	9.418	82	277503	82.712	ng	0.00
42) 2,4,6-Tribromophenol	16.351	330	199415	119.571	ng	0.00
45) 2-Fluorobiphenyl	13.490	172	650117	82.234	ng	0.00
79) Terphenyl-d14	20.194	244	943294	80.915	ng	0.00
Target Compounds						
						Qvalue
19) n-Nitroso-di-n-propyla...	9.418	70	38264	16.271	ng	# 72
31) Naphthalene	11.122	128	138598	14.458	ng	100
33) 4-Chloroaniline	11.122	127	18508	4.680	ng	# 34
37) 2-Methylnaphthalene	12.714	142	64974	9.052	ng	99
38) 1-Methylnaphthalene	12.926	142	58273	8.363	ng	97
46) 1,1'-Biphenyl	13.702	154	19143	2.218	ng	98
49) Acenaphthylene	14.595	152	35208	3.187	ng	# 93
52) Acenaphthene	14.929	154	84522	11.707	ng	99
55) Dibenzofuran	15.259	168	119356	10.716	ng	99
58) Fluorene	15.911	166	175731	19.754	ng	98
63) Azobenzene	16.210	77	20988	2.518	ng	# 1
67) 4-Bromophenyl-phenylether	16.351	248	13086	4.639	ng	# 1
71) Phenanthrene	17.656	178	1178921	88.248	ng	98
72) Anthracene	17.744	178	336375	25.915	ng	99
73) Carbazole	18.008	167	96268	8.250	ng	99
75) Fluoranthene	19.653	202	1289214	79.324	ng	97
78) Pyrene	20.012	202	1195175	75.726	ng	97
81) Benzo(a)anthracene	21.892	228	646584	40.261	ng	97
83) Chrysene	21.957	228	546922	35.773	ng	98
87) Indeno(1,2,3-cd)pyrene	29.254	276	269738	13.113	ng	93
88) Benzo(b)fluoranthene	24.242	252	674673	41.259	ng	98
89) Benzo(k)fluoranthene	24.242	252	674673	41.391	ng	97
90) Benzo(a)pyrene	25.165	252	544167	38.780	ng	98
92) Benzo(g,h,i)perylene	30.488	276	266446	15.727	ng	99

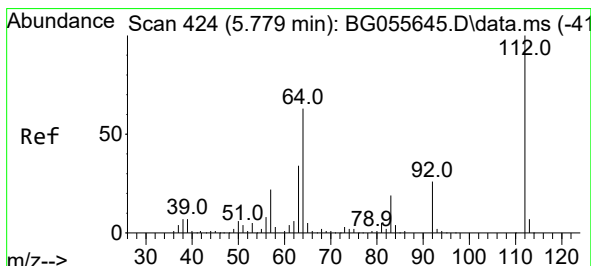
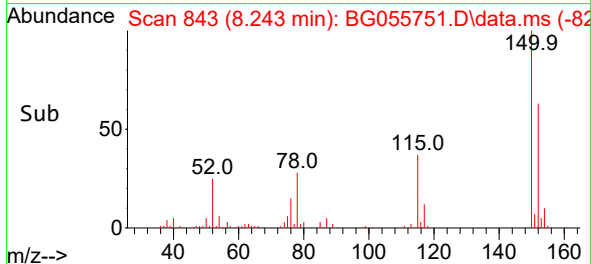
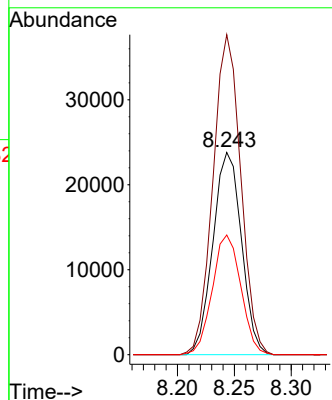
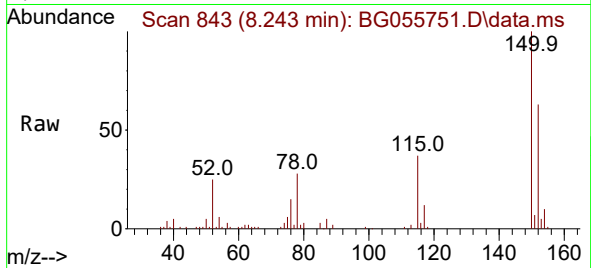
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.243 min Scan# 84
Delta R.T. -0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

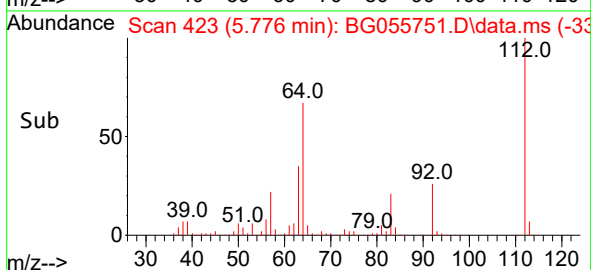
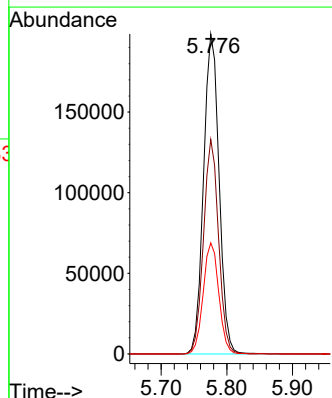
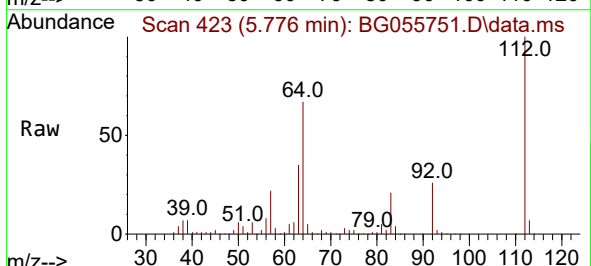
Instrument :
BNA_G
ClientSampleId :
OR-3-111822

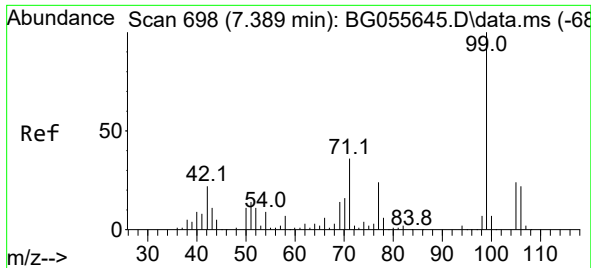
Tgt Ion:152 Resp: 41560
Ion Ratio Lower Upper
152 100
150 158.2 123.0 184.6
115 59.2 47.0 70.4



#5
2-Fluorophenol
Concen: 142.427 ng
RT: 5.776 min Scan# 423
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:112 Resp: 327480
Ion Ratio Lower Upper
112 100
64 67.1 50.6 76.0
63 34.7 27.5 41.3

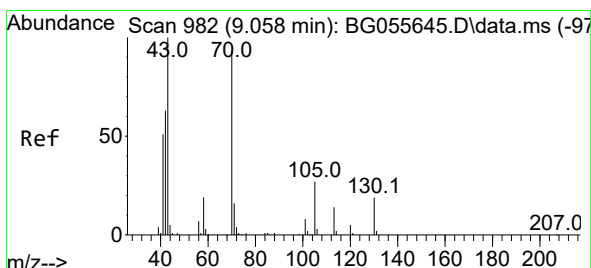
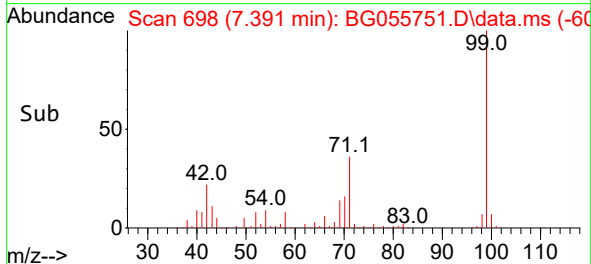
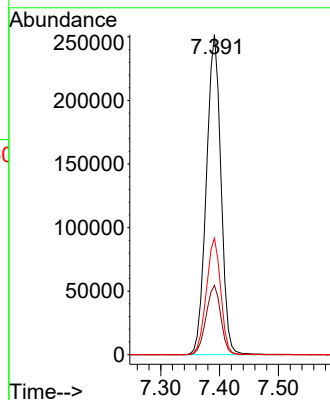
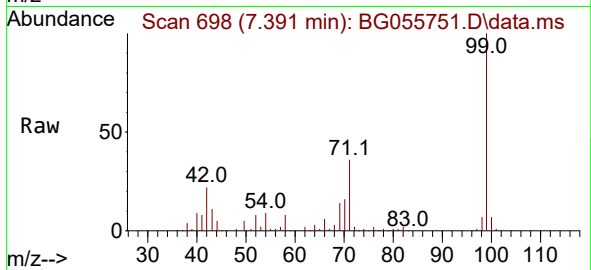




#7
Phenol-d6
Concen: 141.477 ng
RT: 7.391 min Scan# 61
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

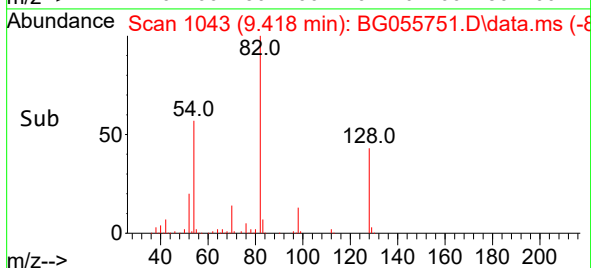
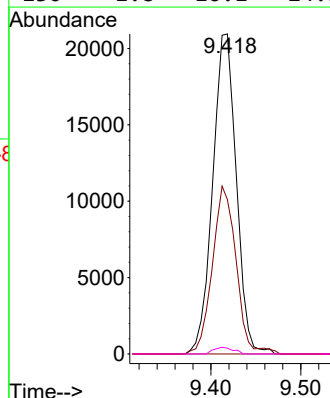
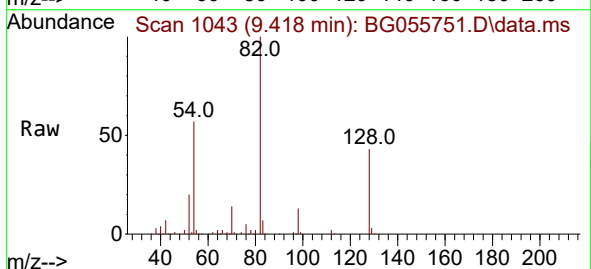
Instrument :
BNA_G
ClientSampleId :
OR-3-111822

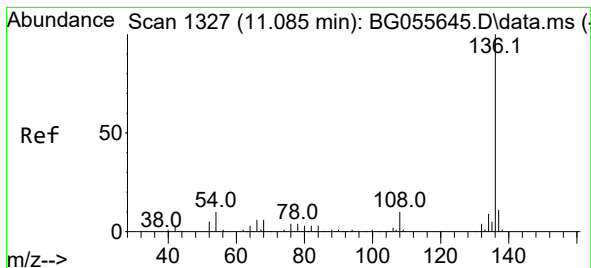
Tgt Ion: 99 Resp: 433022
Ion Ratio Lower Upper
99 100
42 21.6 18.0 27.0
71 36.4 29.0 43.6



#19
n-Nitroso-di-n-propylamine
Concen: 16.271 ng
RT: 9.418 min Scan# 1043
Delta R.T. 0.373 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion: 70 Resp: 38264
Ion Ratio Lower Upper
70 100
42 48.3 55.2 82.8#
101 0.0 7.1 10.7#
130 1.8 16.1 24.1#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.075 min Scan# 11

Delta R.T. 0.003 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

Instrument :

BNA_G

ClientSampleId :

OR-3-111822

Tgt Ion:136 Resp: 177330

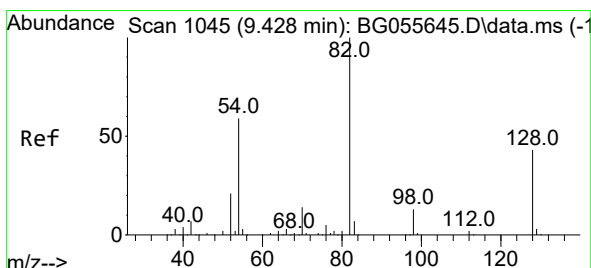
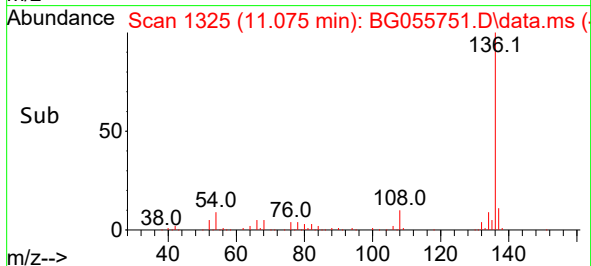
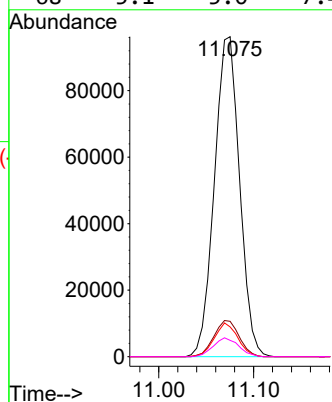
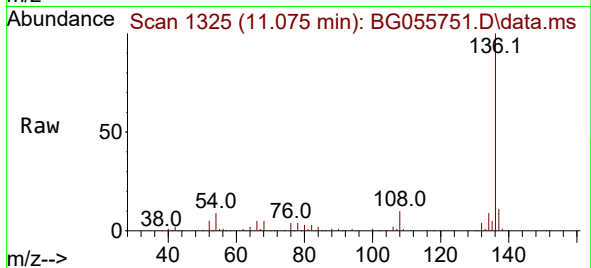
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.6

54 9.3 7.8 11.6

68 5.1 5.0 7.4



#23

Nitrobenzene-d5

Concen: 82.712 ng

RT: 9.418 min Scan# 1043

Delta R.T. 0.003 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

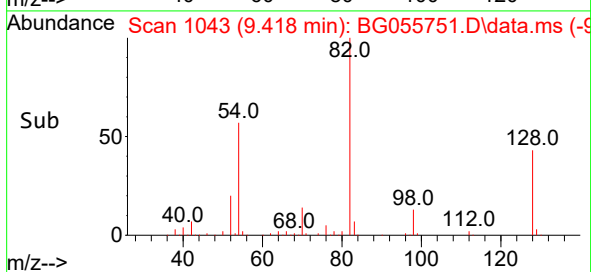
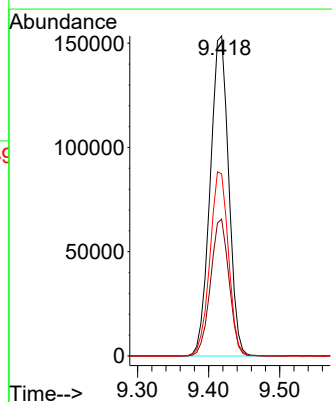
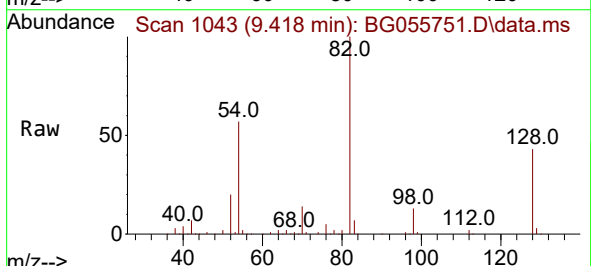
Tgt Ion: 82 Resp: 277503

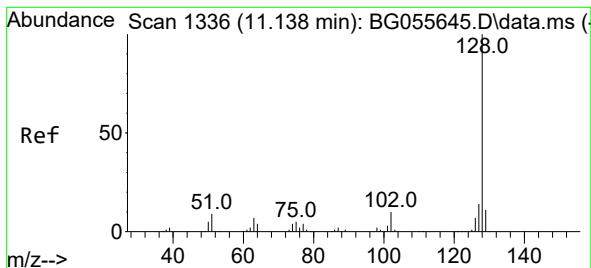
Ion Ratio Lower Upper

82 100

128 42.7 34.1 51.1

54 56.9 47.3 70.9

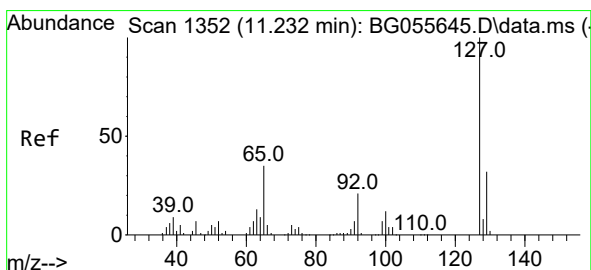
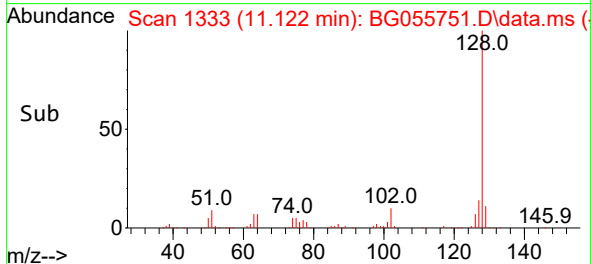
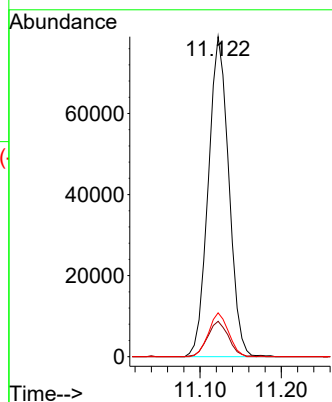
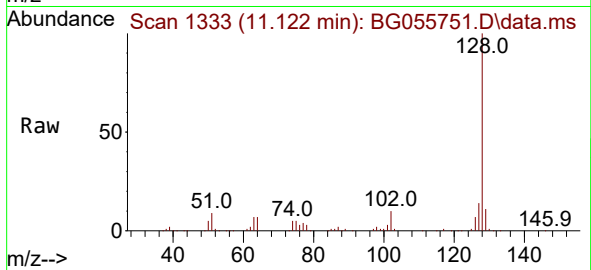




#31
Naphthalene
Concen: 14.458 ng
RT: 11.122 min Scan# 1333
Delta R.T. -0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

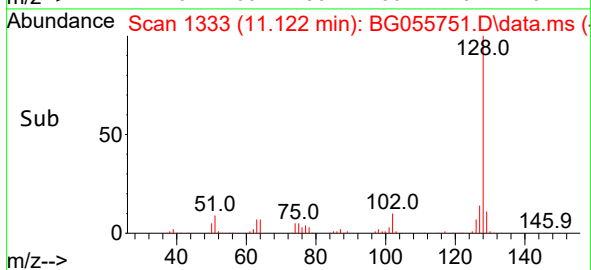
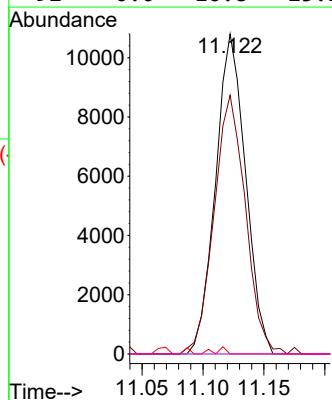
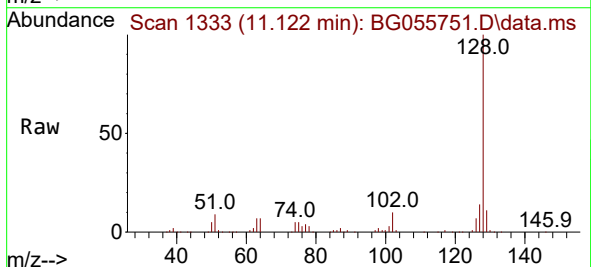
Instrument :
BNA_G
ClientSampleId :
OR-3-111822

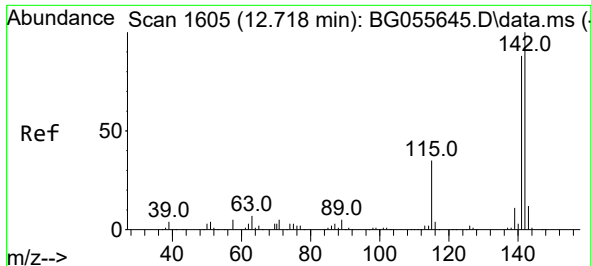
Tgt Ion:128 Resp: 138598
Ion Ratio Lower Upper
128 100
129 11.1 8.7 13.1
127 13.7 10.9 16.3



#33
4-Chloroaniline
Concen: 4.680 ng
RT: 11.122 min Scan# 1333
Delta R.T. -0.103 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:127 Resp: 18508
Ion Ratio Lower Upper
127 100
129 80.9 25.9 38.9#
65 0.0 27.9 41.9#
92 0.0 16.8 25.2#

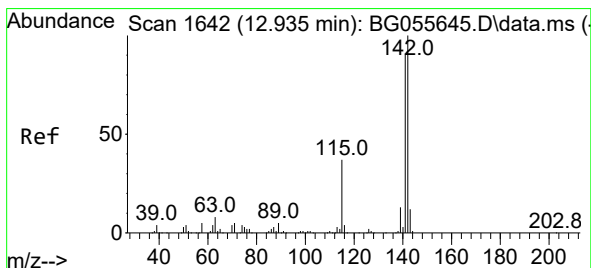
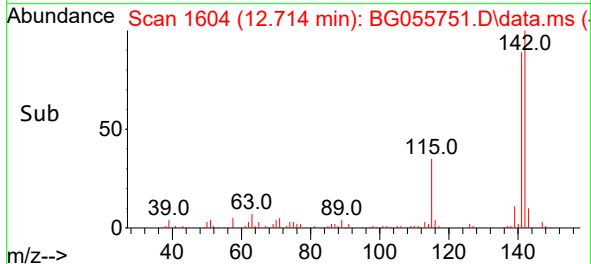
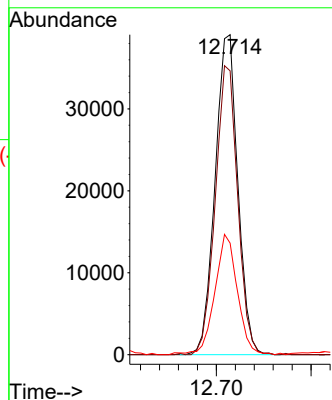
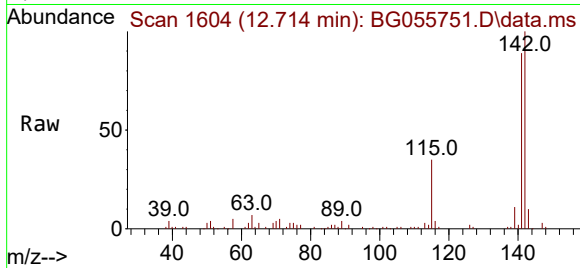




#37
2-Methylnaphthalene
Concen: 9.052 ng
RT: 12.714 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

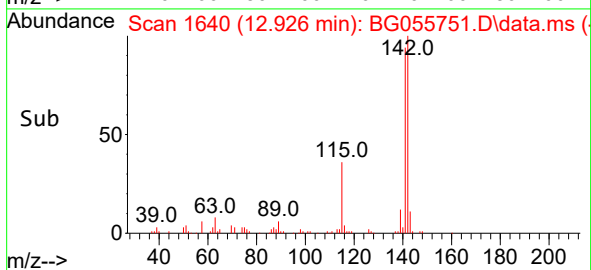
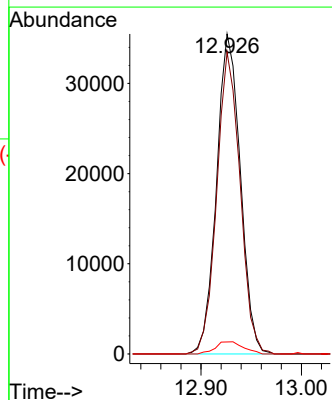
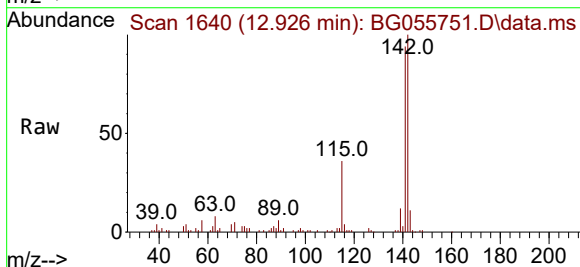
Instrument :
BNA_G
ClientSampleId :
OR-3-111822

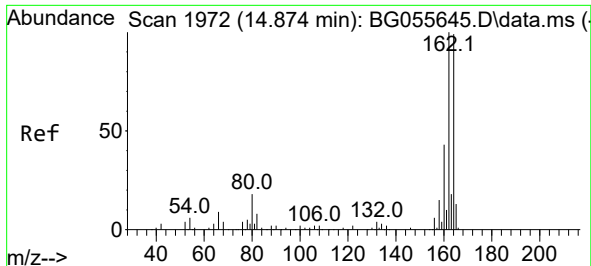
Tgt Ion:142 Resp: 64974
Ion Ratio Lower Upper
142 100
141 88.7 70.3 105.5
115 34.9 27.9 41.9



#38
1-Methylnaphthalene
Concen: 8.363 ng
RT: 12.926 min Scan# 1640
Delta R.T. -0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:142 Resp: 58273
Ion Ratio Lower Upper
142 100
141 94.3 73.0 109.4
116 3.8 3.1 4.7

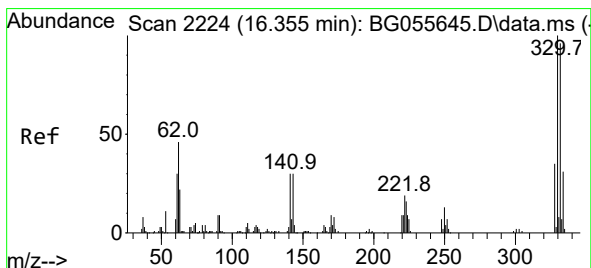
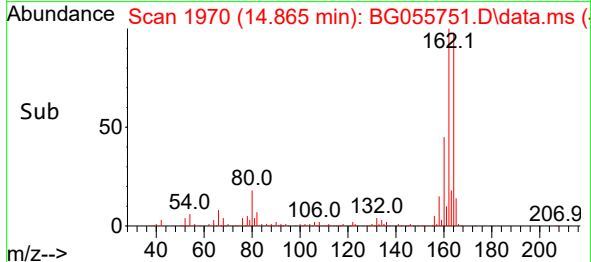
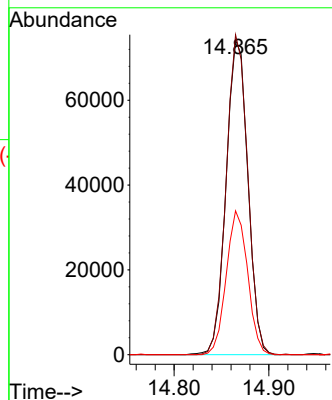
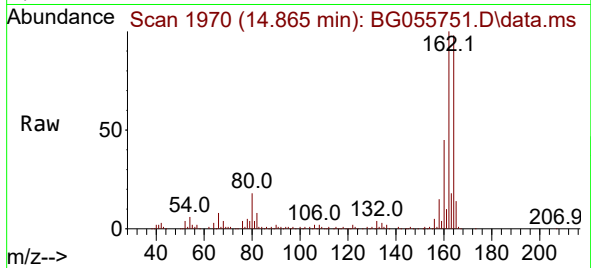




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.865 min Scan# 1972
Delta R.T. -0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

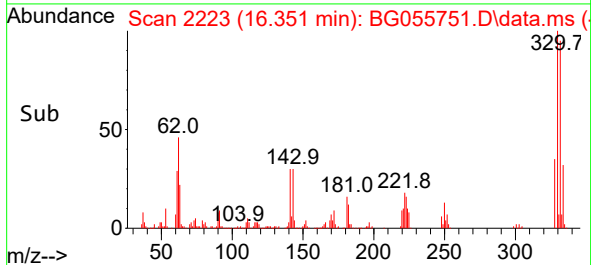
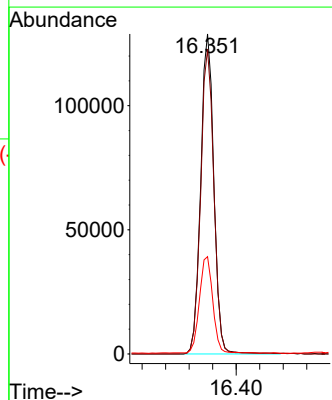
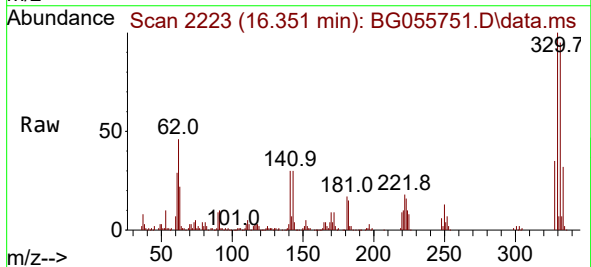
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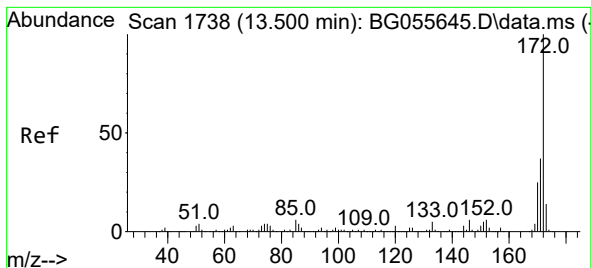
Tgt Ion:164 Resp: 118438
Ion Ratio Lower Upper
164 100
162 101.7 81.1 121.7
160 45.7 34.8 52.2



#42
2,4,6-Tribromophenol
Concen: 119.571 ng
RT: 16.351 min Scan# 2223
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:330 Resp: 199415
Ion Ratio Lower Upper
330 100
332 95.6 77.8 116.8
141 31.1 23.9 35.9





#45

2-Fluorobiphenyl

Concen: 82.234 ng

RT: 13.490 min Scan# 1

Delta R.T. -0.003 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

Instrument :

BNA_G

ClientSampleId :

OR-3-111822

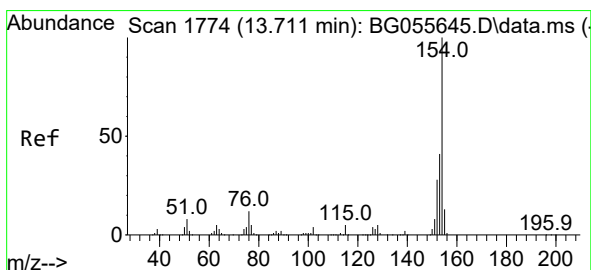
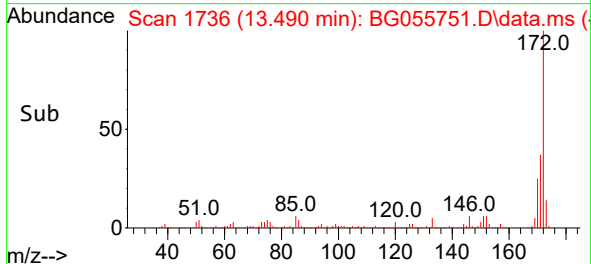
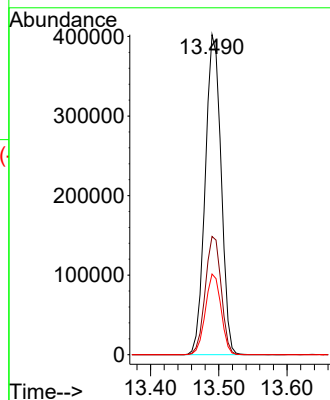
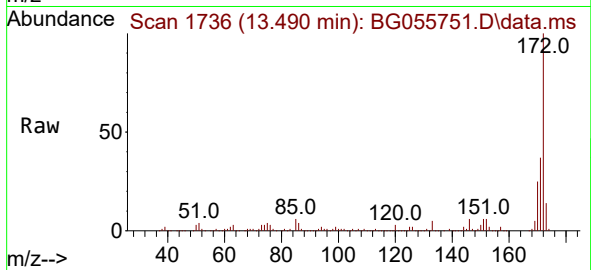
Tgt Ion:172 Resp: 650117

Ion Ratio Lower Upper

172 100

171 37.0 29.8 44.6

170 25.2 20.2 30.4



#46

1,1'-Biphenyl

Concen: 2.218 ng

RT: 13.702 min Scan# 1772

Delta R.T. -0.003 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

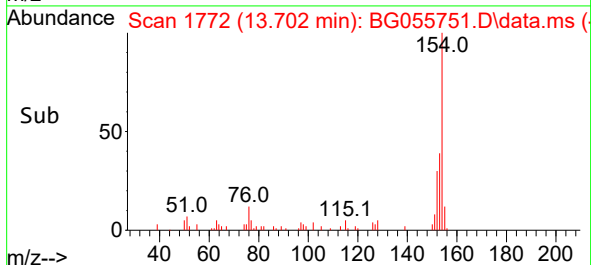
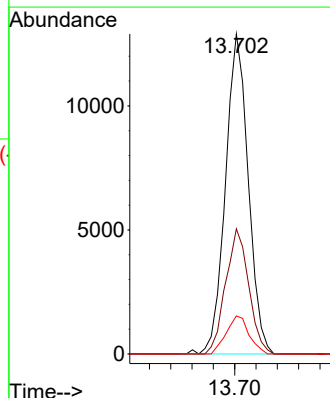
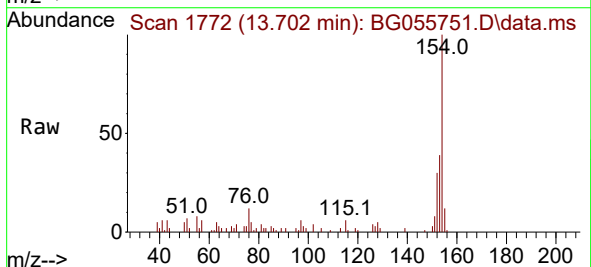
Tgt Ion:154 Resp: 19143

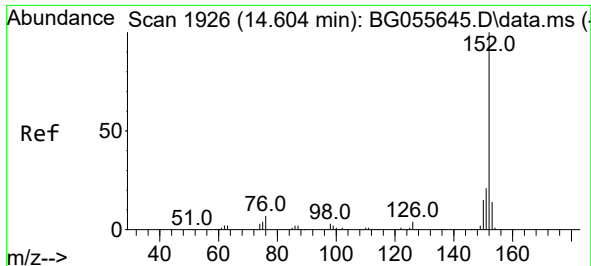
Ion Ratio Lower Upper

154 100

153 39.1 20.6 60.6

76 11.9 0.0 32.4

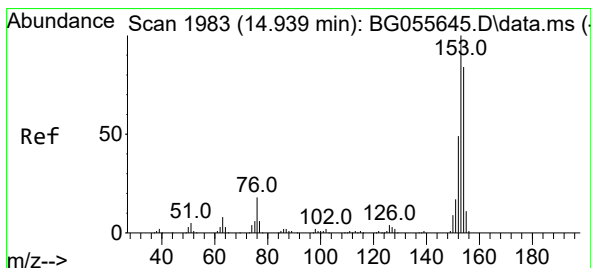
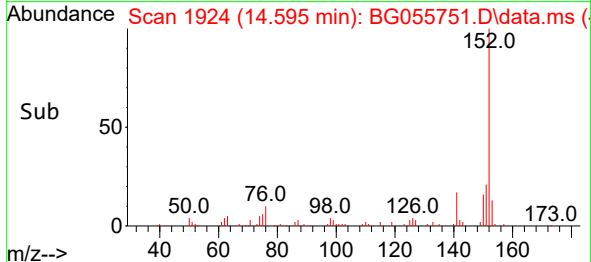
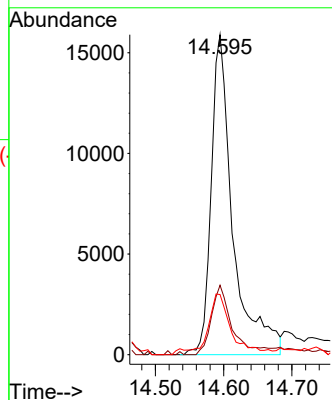
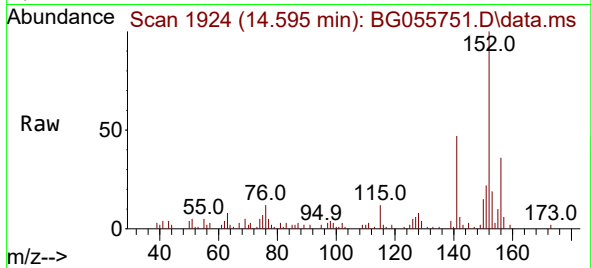




#49
Acenaphthylene
Concen: 3.187 ng
RT: 14.595 min Scan# 1924
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

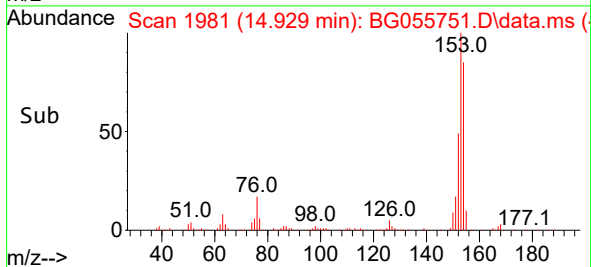
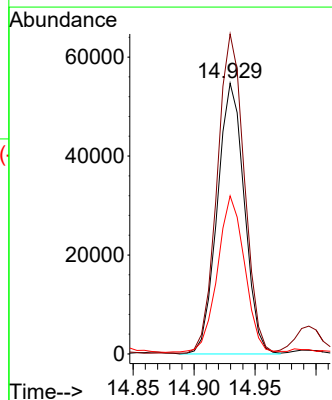
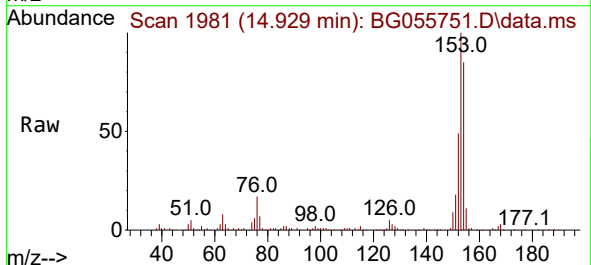
Instrument :
BNA_G
ClientSampleId :
OR-3-111822

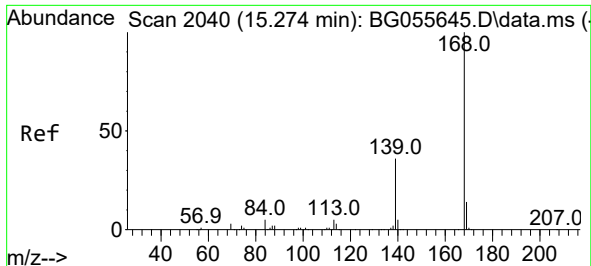
Tgt Ion:152 Resp: 35208
Ion Ratio Lower Upper
152 100
151 21.7 16.4 24.6
153 18.8 11.0 16.4#



#52
Acenaphthene
Concen: 11.707 ng
RT: 14.929 min Scan# 1981
Delta R.T. -0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:154 Resp: 84522
Ion Ratio Lower Upper
154 100
153 118.2 95.0 142.4
152 58.4 46.1 69.1

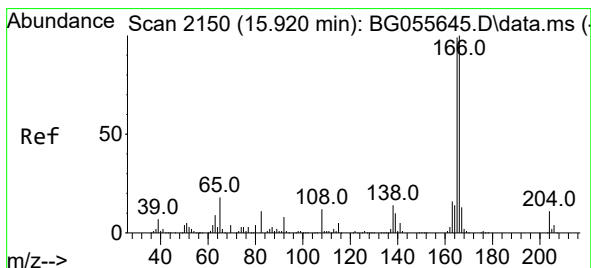
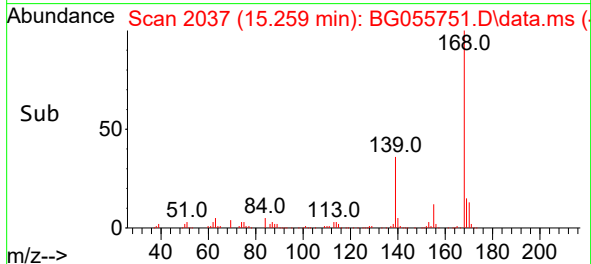
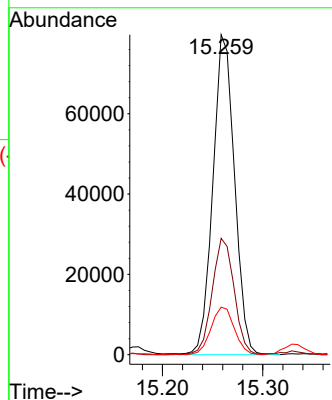
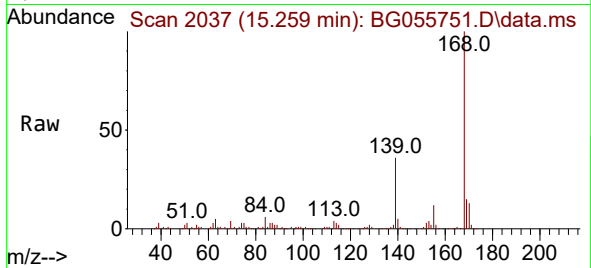




#55
Dibenzenofuran
Concen: 10.716 ng
RT: 15.259 min Scan# 2040
Delta R.T. -0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

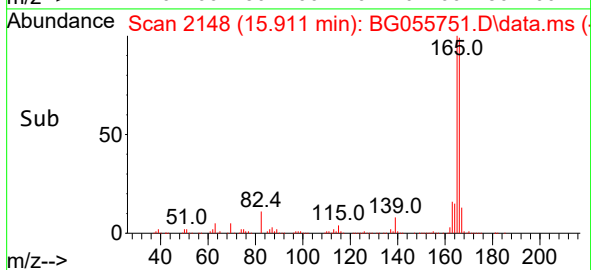
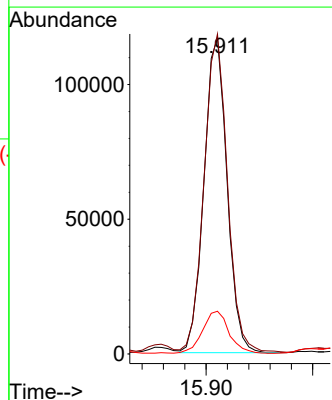
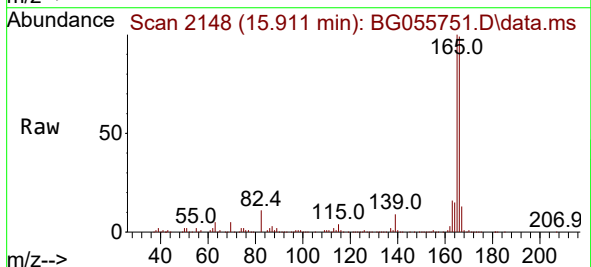
Instrument :
BNA_G
ClientSampleId :
OR-3-111822

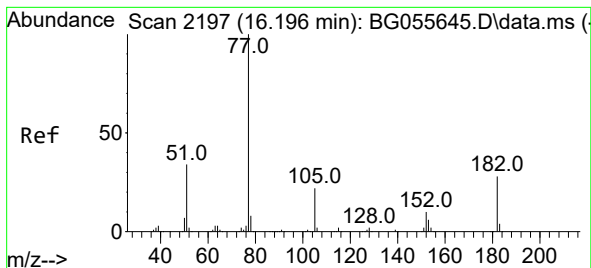
Tgt Ion:168 Resp: 119356
Ion Ratio Lower Upper
168 100
139 36.4 28.8 43.2
169 14.8 11.0 16.4



#58
Fluorene
Concen: 19.754 ng
RT: 15.911 min Scan# 2148
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:166 Resp: 175731
Ion Ratio Lower Upper
166 100
165 101.2 79.3 118.9
167 13.5 10.6 15.8





#63

Azobenzene

Concen: 2.518 ng

RT: 16.210 min Scan# 2199

Delta R.T. 0.021 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

Instrument :

BNA_G

ClientSampleId :

OR-3-111822

Tgt Ion: 77 Resp: 20988

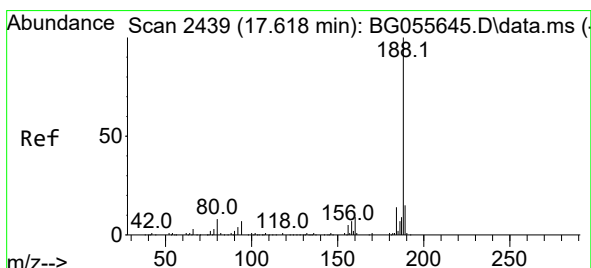
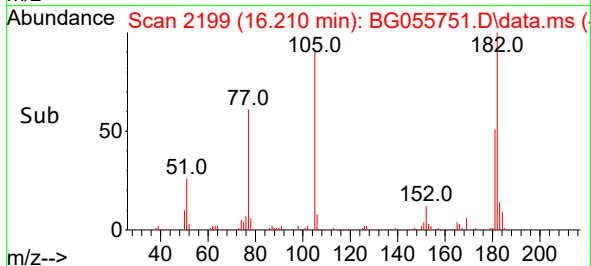
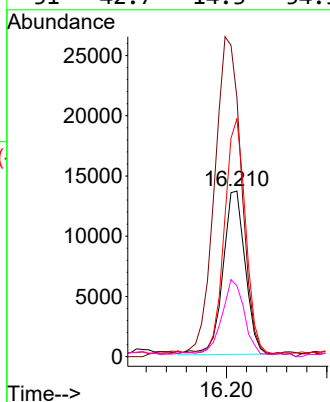
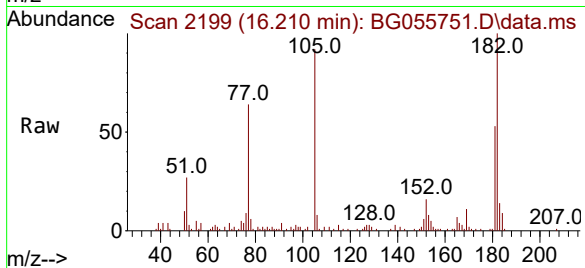
Ion Ratio Lower Upper

77 100

182 156.4 8.1 48.1#

105 143.5 1.8 41.8#

51 42.7 14.3 54.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.609 min Scan# 2437

Delta R.T. 0.003 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

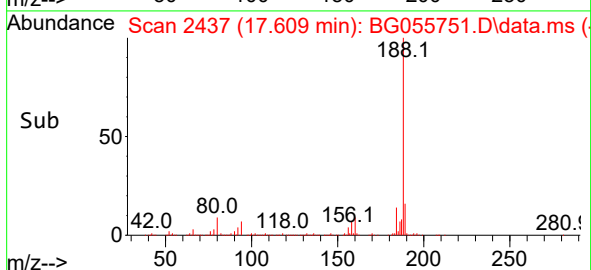
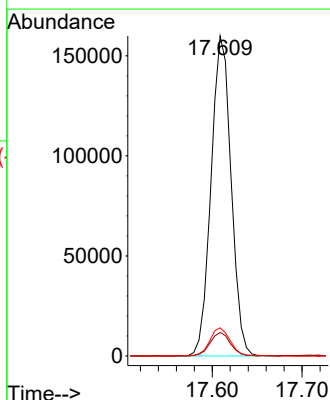
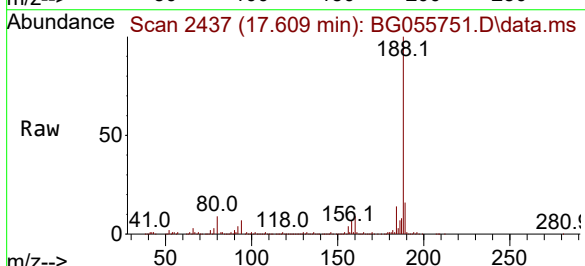
Tgt Ion:188 Resp: 247557

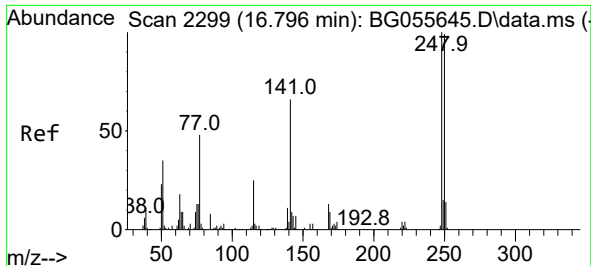
Ion Ratio Lower Upper

188 100

94 7.3 5.4 8.2

80 8.8 6.6 10.0

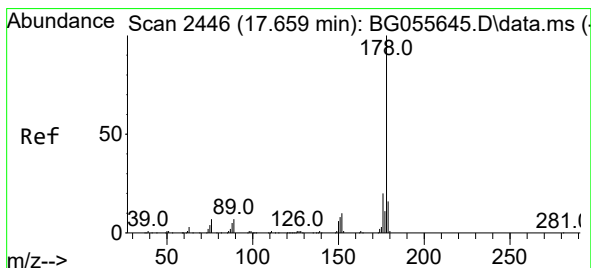
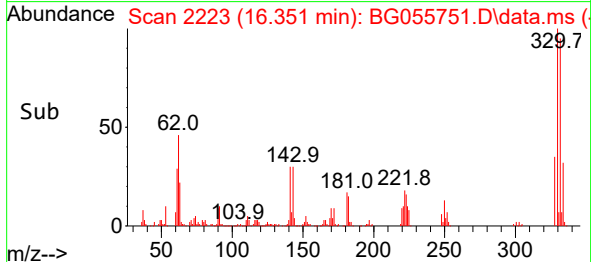
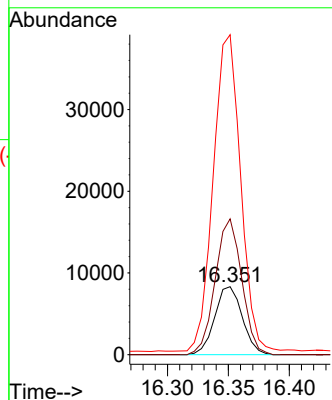
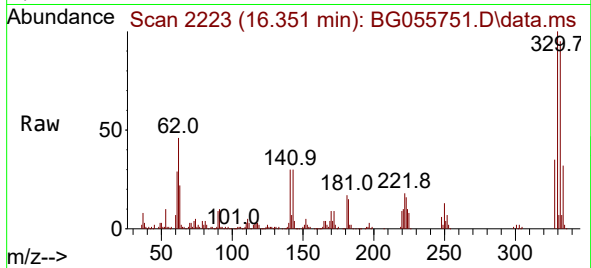




#67
4-Bromophenyl-phenylether
Concen: 4.639 ng
RT: 16.351 min Scan# 21
Delta R.T. -0.437 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

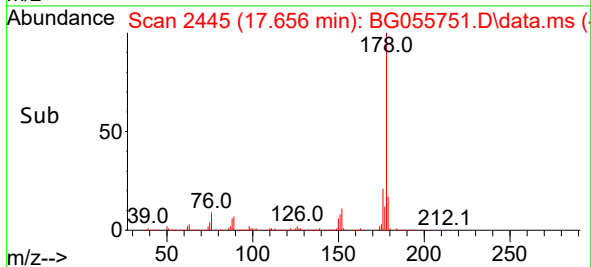
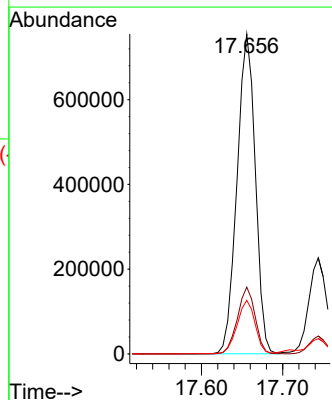
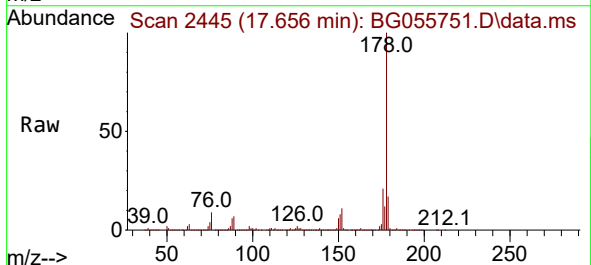
Instrument :
BNA_G
ClientSampleId :
OR-3-111822

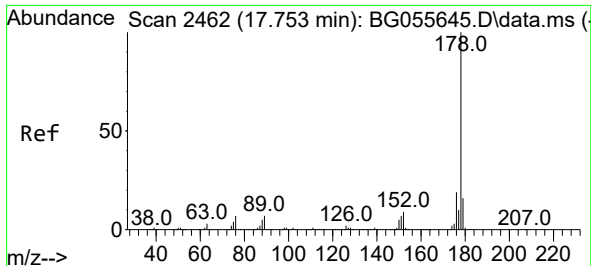
Tgt Ion:248 Resp: 13086
Ion Ratio Lower Upper
248 100
250 199.7 79.0 118.4#
141 470.2 52.9 79.3#



#71
Phenanthrene
Concen: 88.248 ng
RT: 17.656 min Scan# 2445
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:178 Resp: 1178921
Ion Ratio Lower Upper
178 100
176 20.9 16.0 24.0
179 16.7 12.7 19.1

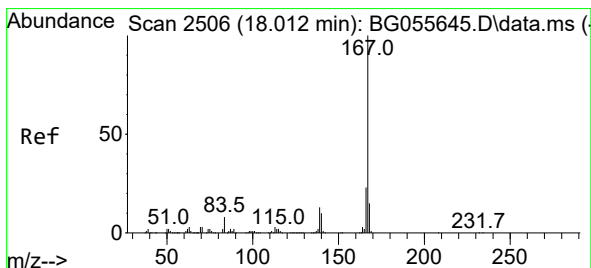
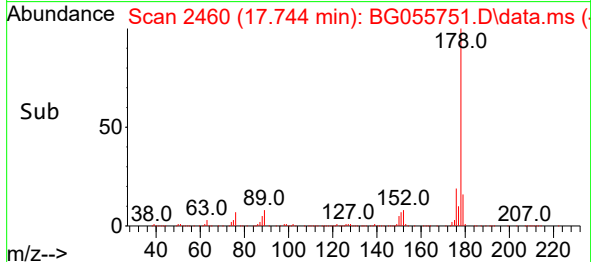
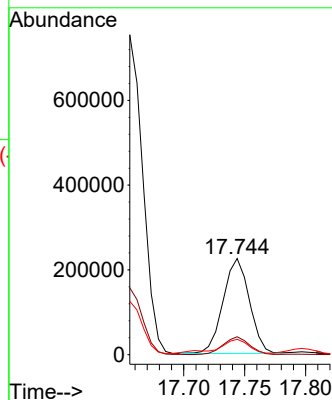
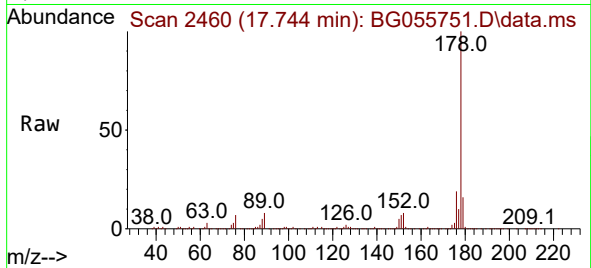




#72
 Anthracene
 Concen: 25.915 ng
 RT: 17.744 min Scan# 2460
 Delta R.T. 0.003 min
 Lab File: BG055751.D
 Acq: 22 Nov 2022 22:45

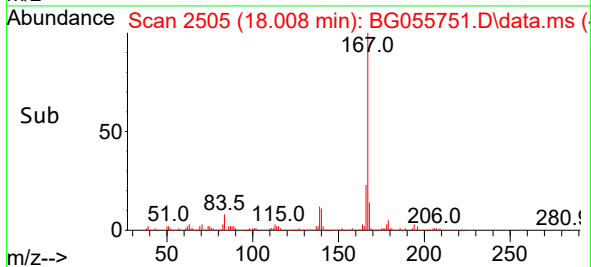
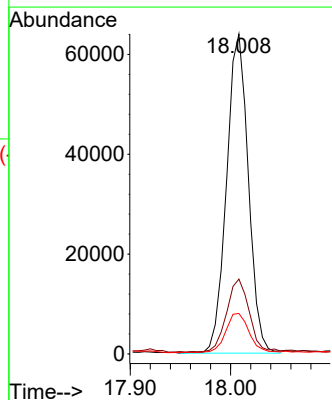
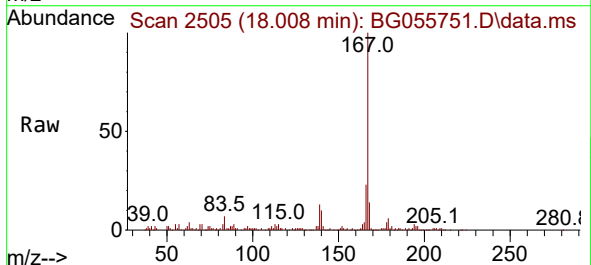
Instrument :
 BNA_G
 ClientSampleId :
 OR-3-111822

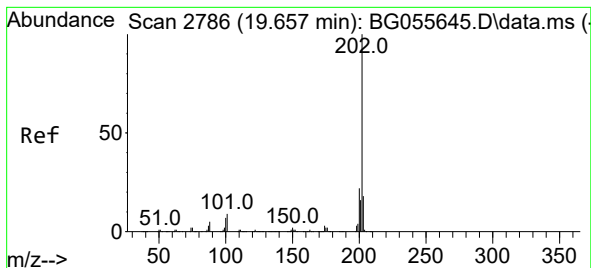
Tgt Ion:178 Resp: 336375
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.5 23.3
 179 16.0 12.5 18.7



#73
 Carbazole
 Concen: 8.250 ng
 RT: 18.008 min Scan# 2505
 Delta R.T. 0.003 min
 Lab File: BG055751.D
 Acq: 22 Nov 2022 22:45

Tgt Ion:167 Resp: 96268
 Ion Ratio Lower Upper
 167 100
 166 23.4 18.2 27.2
 139 12.6 10.2 15.4





#75

Fluoranthene

Concen: 79.324 ng

RT: 19.653 min Scan# 21

Delta R.T. 0.009 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

Instrument :

BNA_G

ClientSampleId :

OR-3-111822

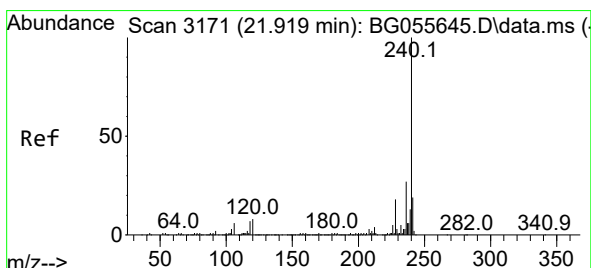
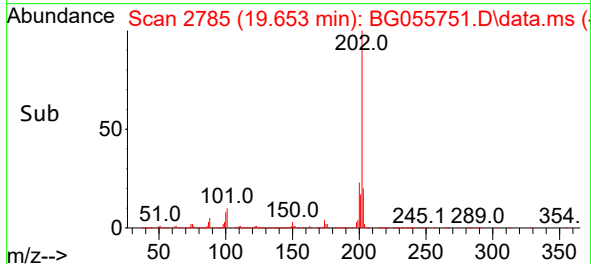
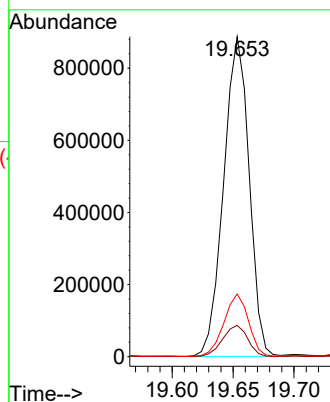
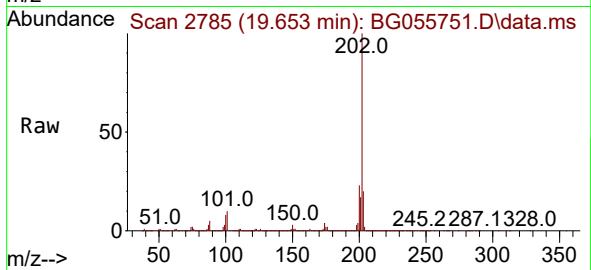
Tgt Ion:202 Resp: 1289214

Ion Ratio Lower Upper

202 100

101 9.8 0.0 28.8

203 19.6 0.0 38.1



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.910 min Scan# 3169

Delta R.T. 0.003 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

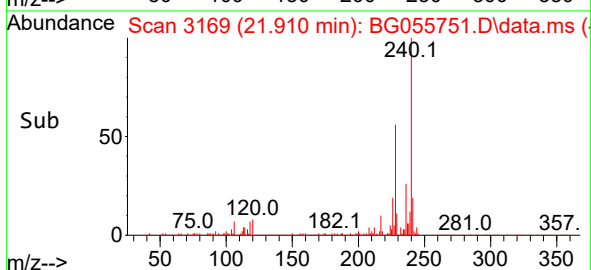
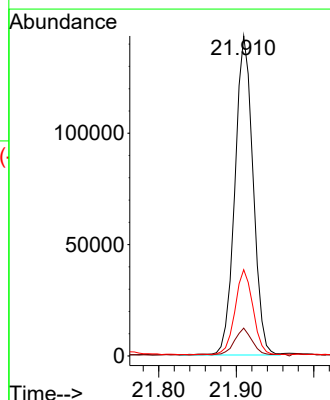
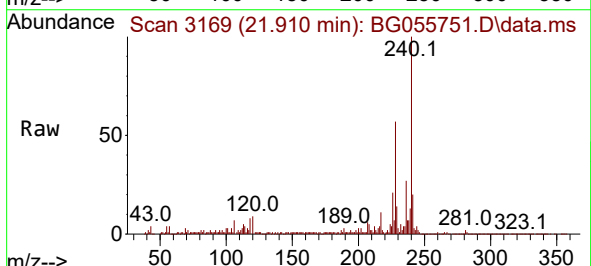
Tgt Ion:240 Resp: 233171

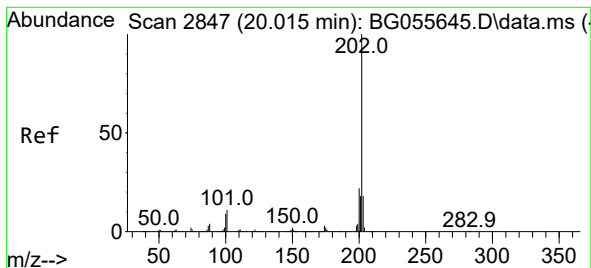
Ion Ratio Lower Upper

240 100

120 8.7 6.3 9.5

236 27.0 21.9 32.9





#78

Pyrene

Concen: 75.726 ng

RT: 20.012 min Scan# 21

Delta R.T. 0.003 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

Instrument :

BNA_G

ClientSampleId :

OR-3-111822

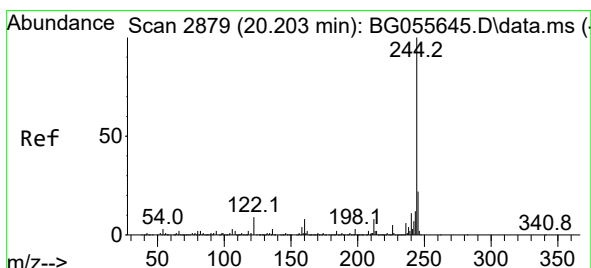
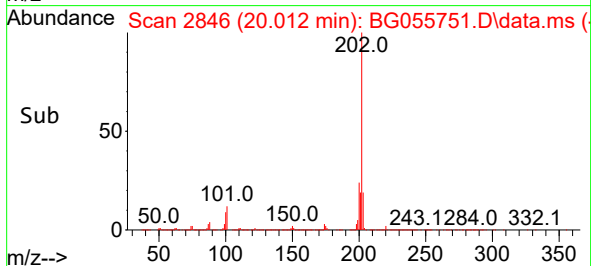
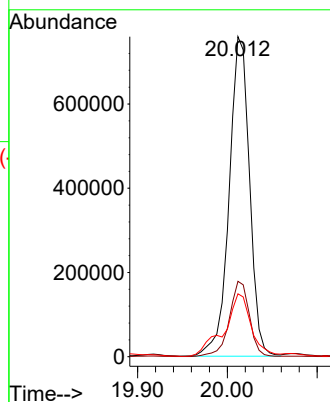
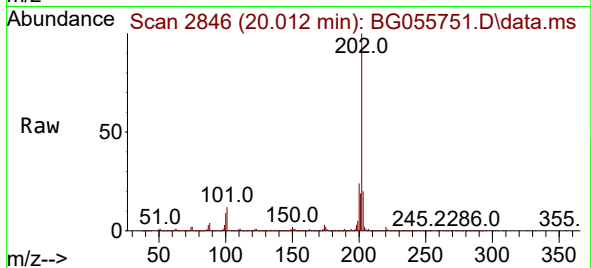
Tgt Ion:202 Resp: 1195175

Ion Ratio Lower Upper

202 100

200 23.5 17.8 26.6

203 19.7 14.4 21.6



#79

Terphenyl-d14

Concen: 80.915 ng

RT: 20.194 min Scan# 2877

Delta R.T. 0.003 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

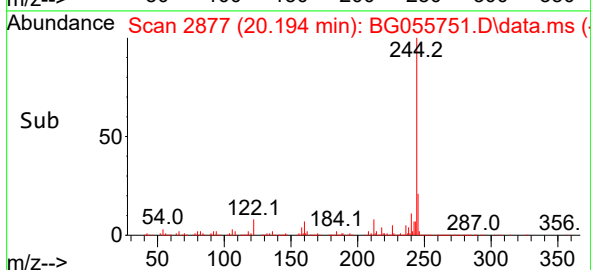
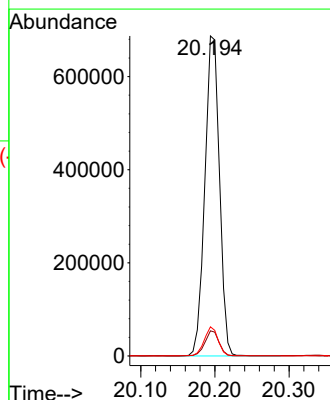
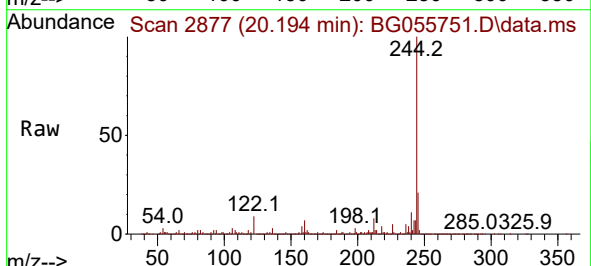
Tgt Ion:244 Resp: 943294

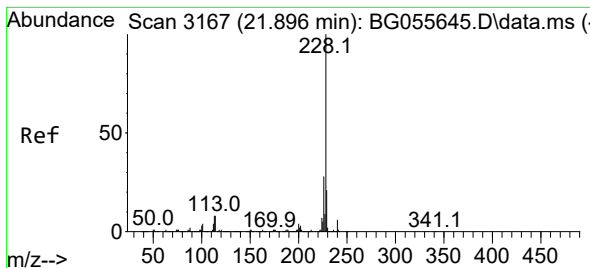
Ion Ratio Lower Upper

244 100

212 7.9 6.3 9.5

122 9.1 6.9 10.3





#81

Benzo(a)anthracene

Concen: 40.261 ng

RT: 21.892 min Scan# 3166

Delta R.T. 0.009 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

Instrument :

BNA_G

ClientSampleId :

OR-3-111822

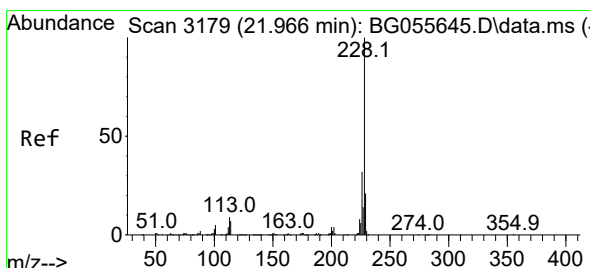
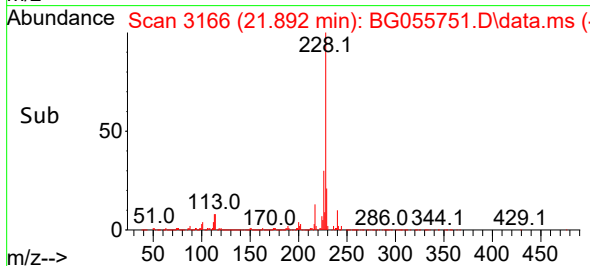
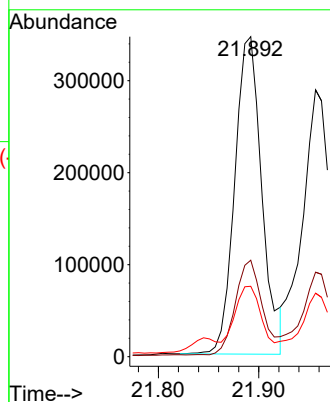
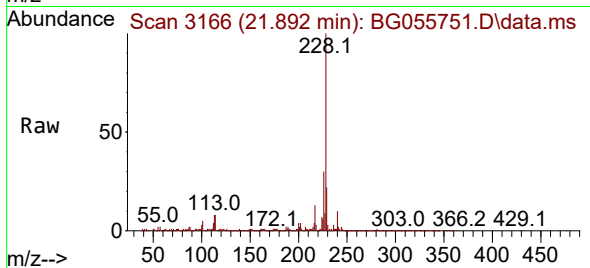
Tgt Ion:228 Resp: 646584

Ion Ratio Lower Upper

228 100

226 30.2 22.7 34.1

229 22.0 16.5 24.7



#83

Chrysene

Concen: 35.773 ng

RT: 21.957 min Scan# 3177

Delta R.T. 0.003 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

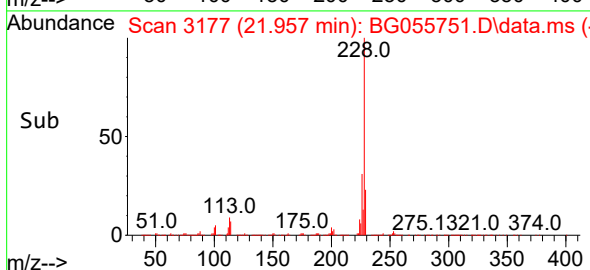
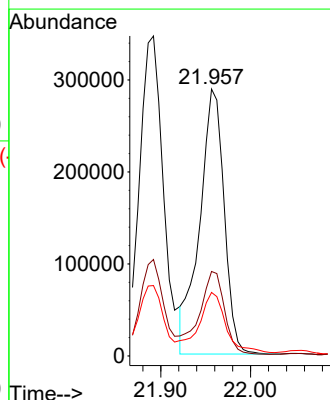
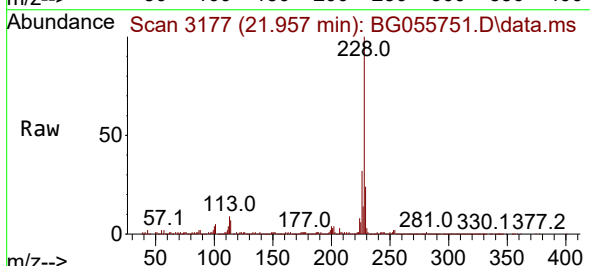
Tgt Ion:228 Resp: 546922

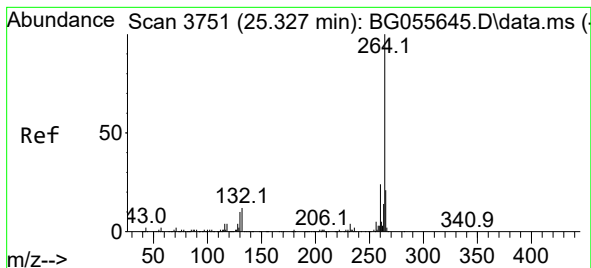
Ion Ratio Lower Upper

228 100

226 31.7 25.4 38.2

229 23.8 17.1 25.7





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.323 min Scan# 31

Delta R.T. 0.021 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

Instrument :

BNA_G

ClientSampleId :

OR-3-111822

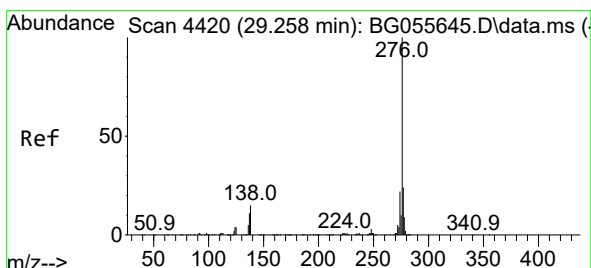
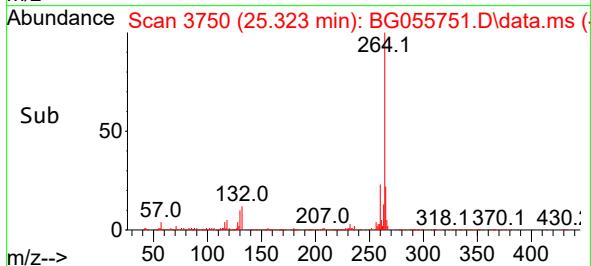
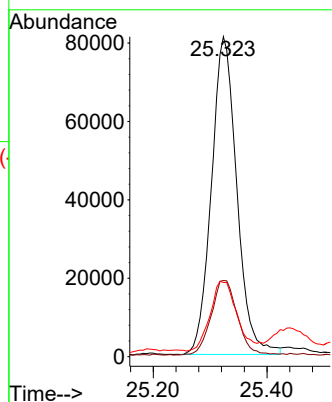
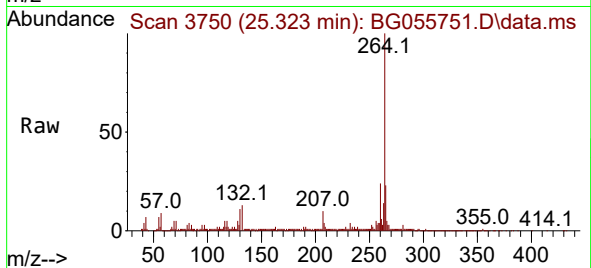
Tgt Ion:264 Resp: 251086

Ion Ratio Lower Upper

264 100

260 23.8 19.5 29.3

265 23.2 17.1 25.7



#87

Indeno(1,2,3-cd)pyrene

Concen: 13.113 ng

RT: 29.254 min Scan# 4419

Delta R.T. 0.021 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

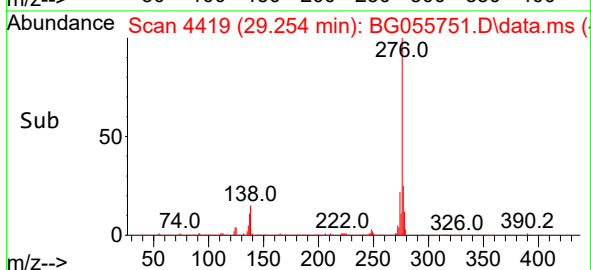
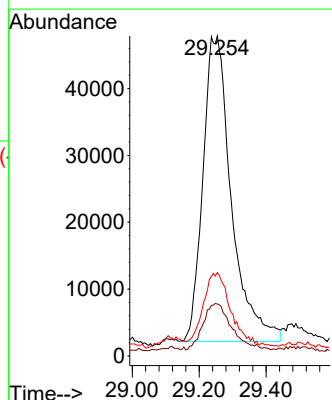
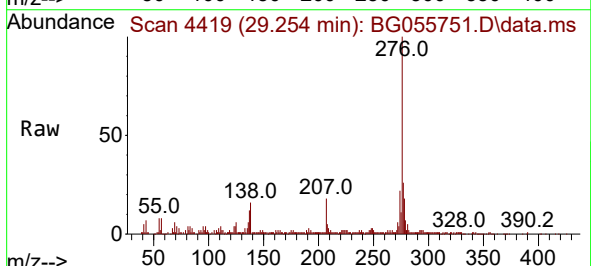
Tgt Ion:276 Resp: 269738

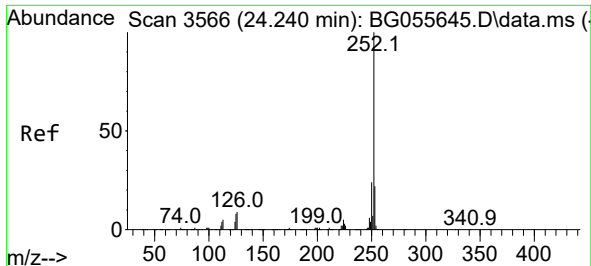
Ion Ratio Lower Upper

276 100

138 15.5 10.4 15.6

277 21.5 20.2 30.4

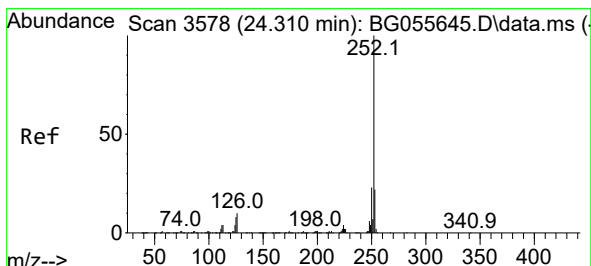
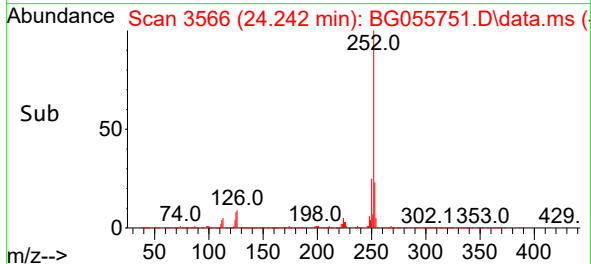
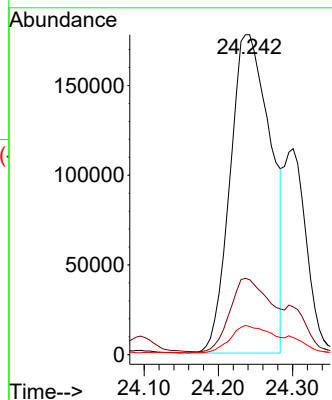
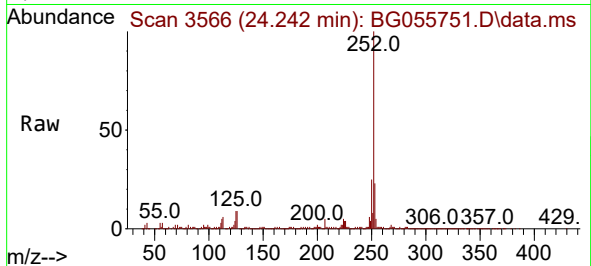




#88
Benzo(b)fluoranthene
Concen: 41.259 ng
RT: 24.242 min Scan# 3566
Delta R.T. 0.021 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

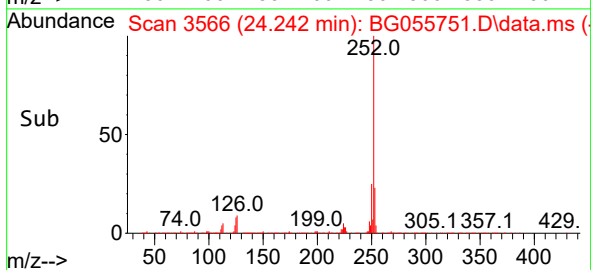
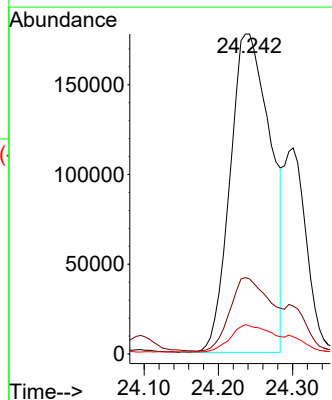
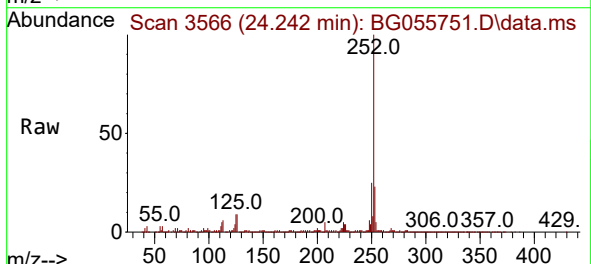
Instrument :
BNA_G
ClientSampleId :
OR-3-111822

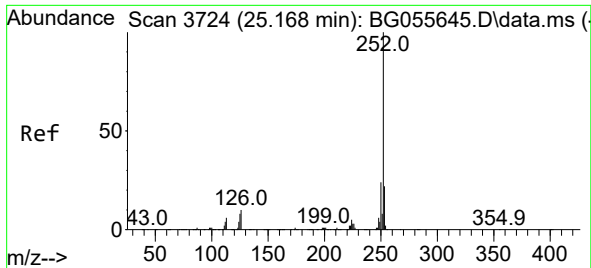
Tgt Ion:252 Resp: 674673
Ion Ratio Lower Upper
252 100
253 23.5 18.0 27.0
125 8.8 6.2 9.2



#89
Benzo(k)fluoranthene
Concen: 41.391 ng
RT: 24.242 min Scan# 3566
Delta R.T. -0.050 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:252 Resp: 674673
Ion Ratio Lower Upper
252 100
253 23.5 17.8 26.6
125 8.8 6.1 9.1

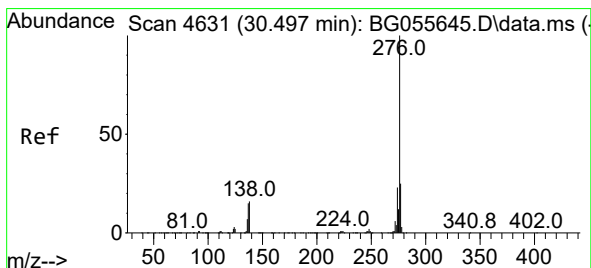
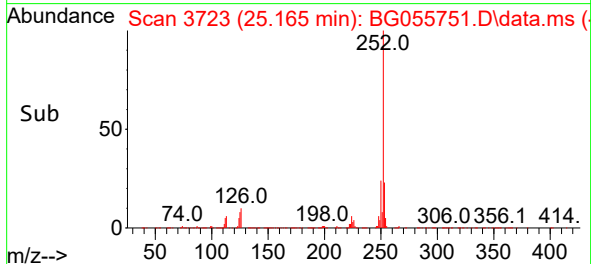
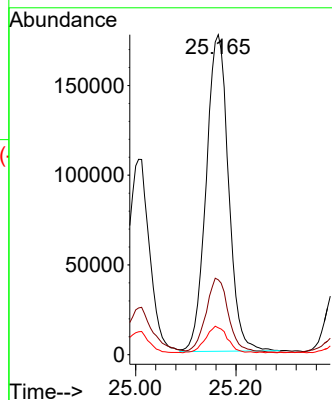
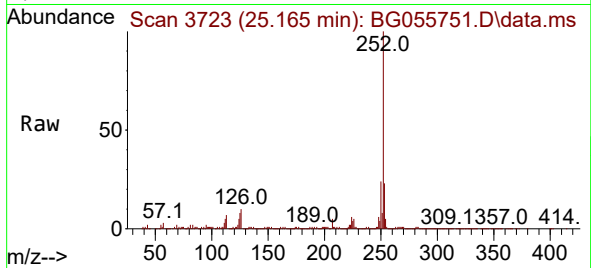




#90
Benzo(a)pyrene
Concen: 38.780 ng
RT: 25.165 min Scan# 31
Delta R.T. 0.015 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Instrument :
BNA_G
ClientSampleId :
OR-3-111822

Tgt Ion:252 Resp: 544167
Ion Ratio Lower Upper
252 100
253 23.4 17.8 26.6
125 8.4 6.4 9.6



#92
Benzo(g,h,i)perylene
Concen: 15.727 ng
RT: 30.488 min Scan# 4629
Delta R.T. 0.027 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:276 Resp: 266446
Ion Ratio Lower Upper
276 100
277 25.2 19.8 29.6
138 16.1 13.1 19.7

