

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102622\
 Data File : BG055313.D
 Acq On : 27 Oct 2022 00:49
 Operator : CG/JU
 Sample : N5238-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 2673

Quant Time: Oct 27 10:44:54 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG102422.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 24 16:54:05 2022
 Response via : Initial Calibration

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

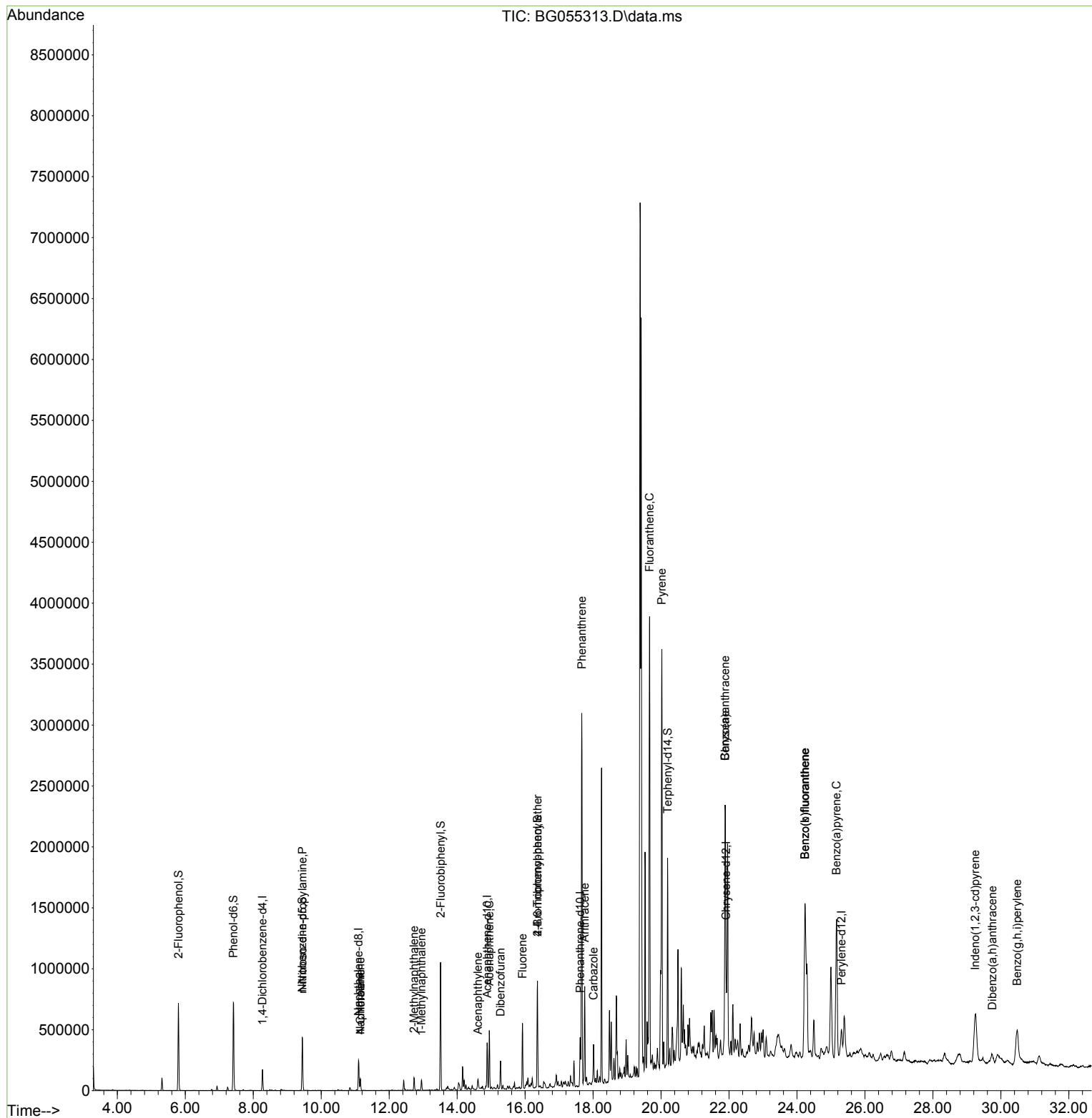
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.271	152	49474	20.000	ng	0.00
21) Naphthalene-d8	11.097	136	214549	20.000	ng	0.00
39) Acenaphthene-d10	14.881	164	128465	20.000	ng	0.00
64) Phenanthrene-d10	17.619	188	251866	20.000	ng	0.00
76) Chrysene-d12	21.908	240	220322	20.000	ng	0.00
86) Perylene-d12	25.310	264	243691	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.797	112	328822	116.376	ng	0.00
7) Phenol-d6	7.413	99	454752	111.091	ng	0.00
23) Nitrobenzene-d5	9.440	82	280334	66.720	ng	0.00
42) 2,4,6-Tribromophenol	16.361	330	150883	108.042	ng	0.00
45) 2-Fluorobiphenyl	13.512	172	542447	69.112	ng	0.00
79) Terphenyl-d14	20.192	244	723984	68.273	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	9.446	70	37647	11.075	ng	# 79
31) Naphthalene	11.150	128	78287	6.840	ng	98
33) 4-Chloroaniline	11.150	127	10760	2.199	ng	# 39
37) 2-Methylnaphthalene	12.730	142	51122	6.195	ng	98
38) 1-Methylnaphthalene	12.948	142	38360	4.712	ng	99
49) Acenaphthylene	14.611	152	95118	7.930	ng	99
52) Acenaphthene	14.945	154	168772	22.075	ng	100
55) Dibenzofuran	15.274	168	143703	12.529	ng	97
58) Fluorene	15.921	166	234549	24.576	ng	100
67) 4-Bromophenyl-phenylether	16.361	248	10009	4.090	ng	# 1
71) Phenanthrene	17.666	178	1897086	141.234	ng	93
72) Anthracene	17.754	178	512365	39.018	ng	100
73) Carbazole	18.012	167	206055	16.315	ng	100
75) Fluoranthene	19.663	202	2477007	158.258	ng	94
78) Pyrene	20.022	202	2219423	146.965	ng	# 90
81) Benzo(a)anthracene	21.884	228	1352226	91.397	ng	96
83) Chrysene	21.884	228	1352226	96.219	ng	97
87) Indeno(1,2,3-cd)pyrene	29.240	276	792486	44.030	ng	95
88) Benzo(b)fluoranthene	24.235	252	1718877	117.261	ng	97
89) Benzo(k)fluoranthene	24.235	252	1718877	116.128	ng	99
90) Benzo(a)pyrene	25.163	252	1321524	105.130	ng	97
91) Dibenzo(a,h)anthracene	29.746	278	140422	9.507	ng	95
92) Benzo(g,h,i)perylene	30.480	276	783559	53.484	ng	98

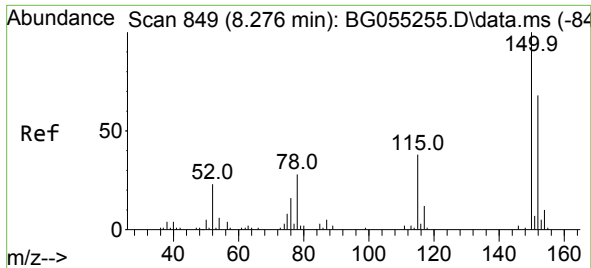
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
BNA_G
ClientSampleId :
2673

Quant Time: Oct 27 10:44:54 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG102422.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 24 16:54:05 2022
Response via : Initial Calibration

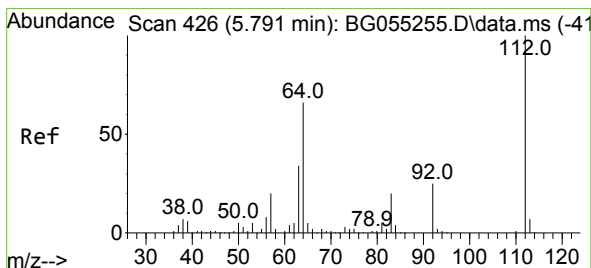
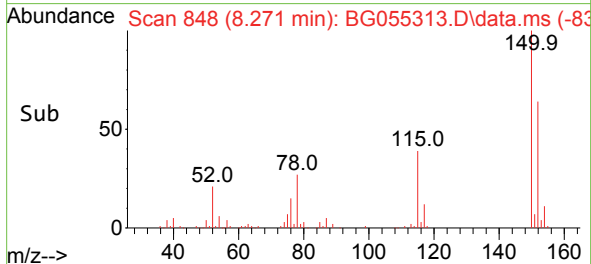
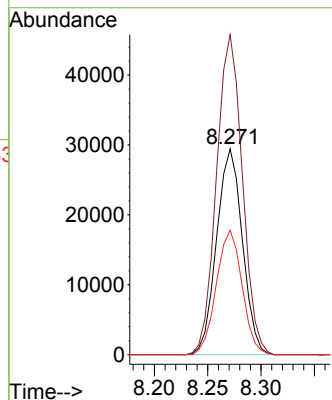
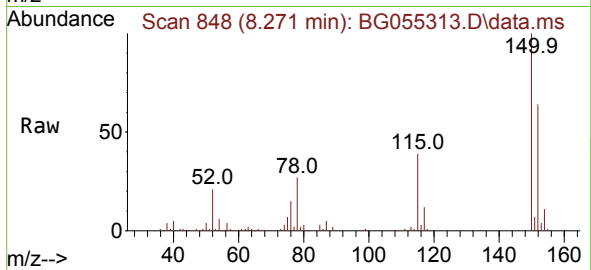




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.271 min Scan# 84
Delta R.T. -0.005 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

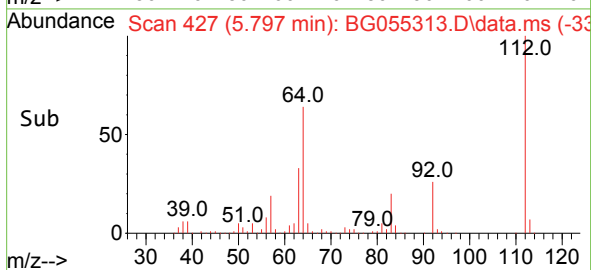
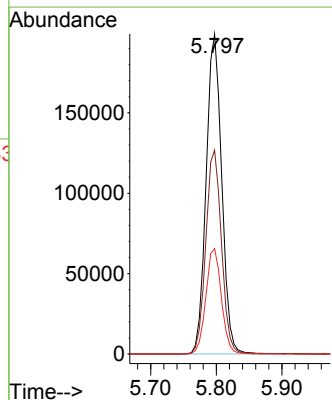
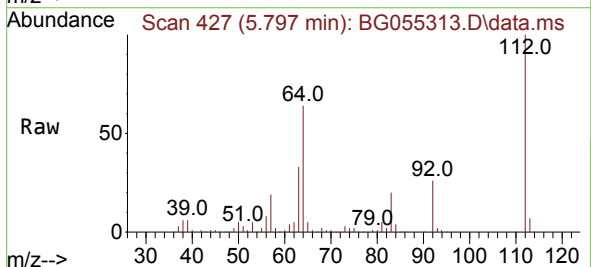
Instrument :
BNA_G
ClientSampleId :
2673

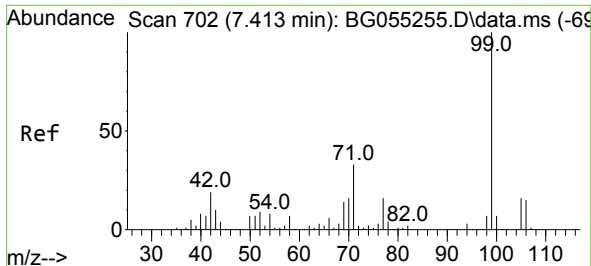
Tgt Ion:152 Resp: 49474
Ion Ratio Lower Upper
152 100
150 155.4 118.2 177.4
115 60.4 44.5 66.7



#5
2-Fluorophenol
Concen: 116.376 ng
RT: 5.797 min Scan# 427
Delta R.T. 0.006 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

Tgt Ion:112 Resp: 328822
Ion Ratio Lower Upper
112 100
64 63.7 52.6 78.8
63 32.9 27.1 40.7

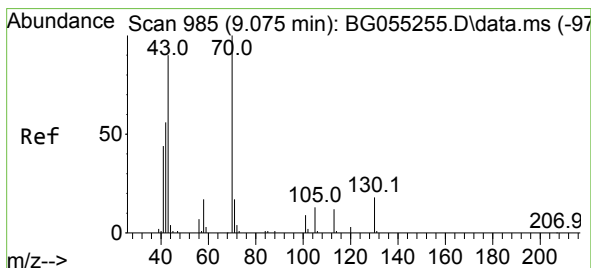
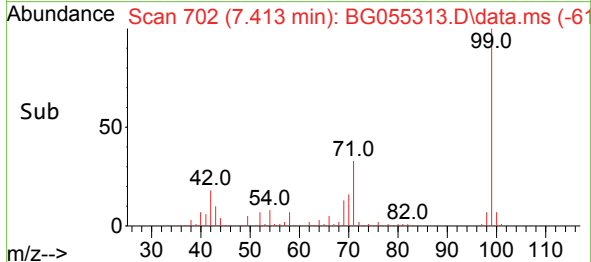
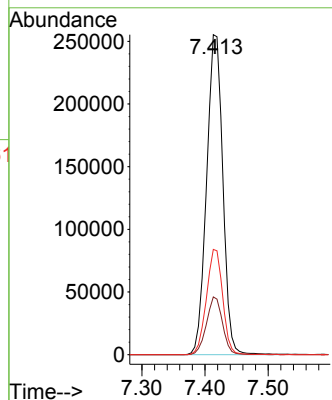
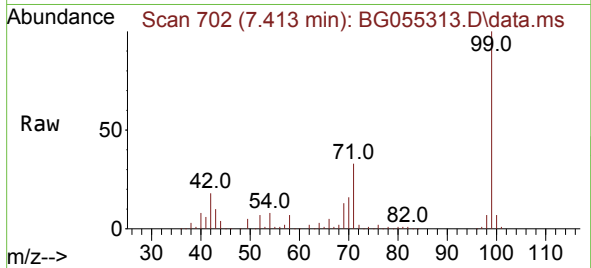




#7
Phenol-d6
Concen: 111.091 ng
RT: 7.413 min Scan# 702
Delta R.T. 0.001 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

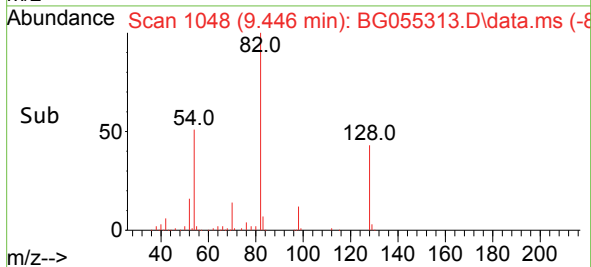
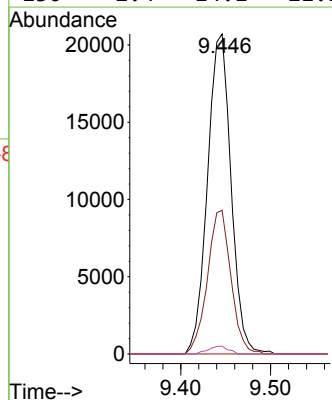
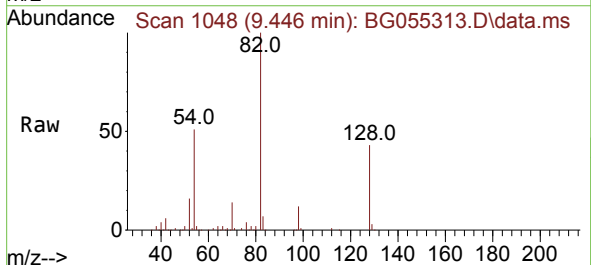
Instrument :
BNA_G
ClientSampleId :
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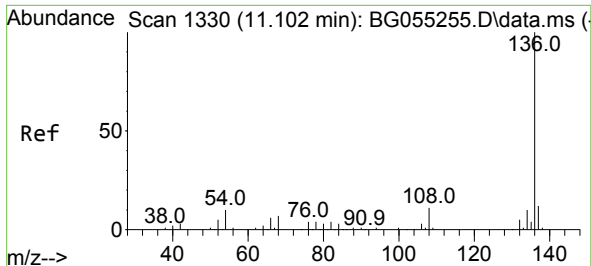
Tgt Ion: 99 Resp: 454752
Ion Ratio Lower Upper
99 100
42 18.0 15.2 22.8
71 32.9 26.2 39.4



#19
n-Nitroso-di-n-propylamine
Concen: 11.075 ng
RT: 9.446 min Scan# 1048
Delta R.T. 0.371 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

Tgt Ion: 70 Resp: 37647
Ion Ratio Lower Upper
70 100
42 44.9 45.8 68.6#
101 0.0 7.4 11.0#
130 2.4 14.1 21.1#

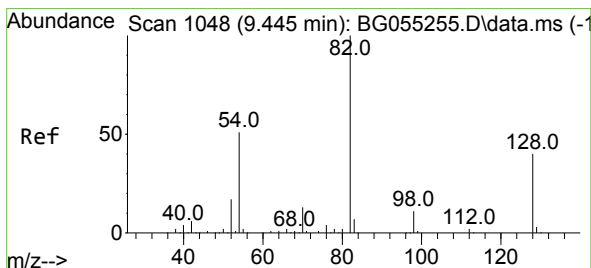
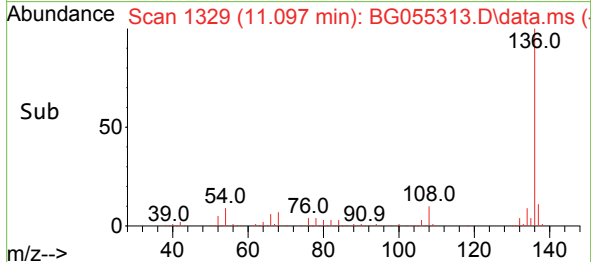
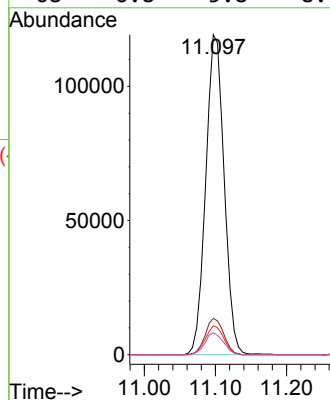
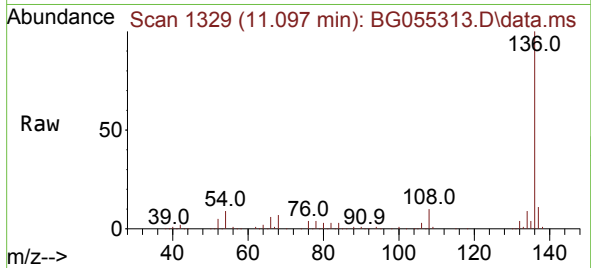




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.097 min Scan# 11
Delta R.T. -0.005 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

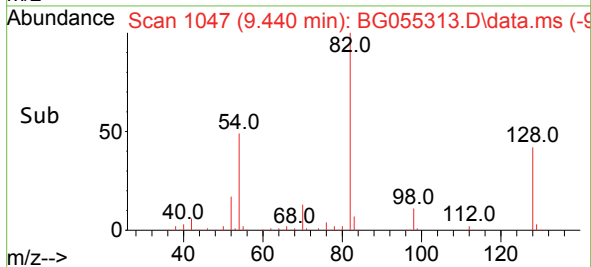
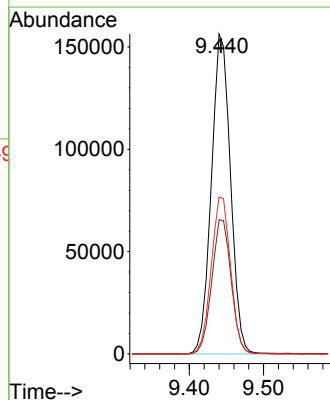
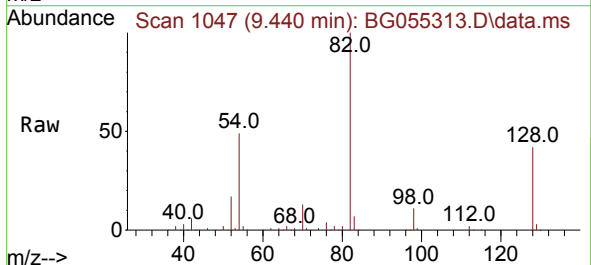
Instrument :
BNA_G
ClientSampleId :
2673

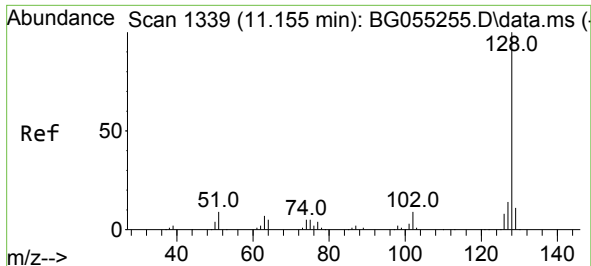
Tgt Ion:	136	Resp:	214549
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.2	13.8
54	9.0	7.8	11.8
68	6.8	5.8	8.6



#23
Nitrobenzene-d5
Concen: 66.720 ng
RT: 9.440 min Scan# 1047
Delta R.T. -0.005 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

Tgt Ion:	82	Resp:	280334
Ion Ratio	Lower	Upper	
82	100		
128	41.9	32.0	48.0
54	49.0	40.9	61.3

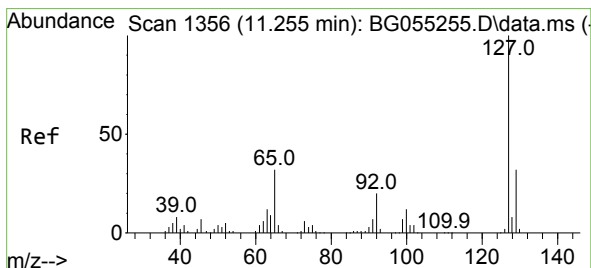
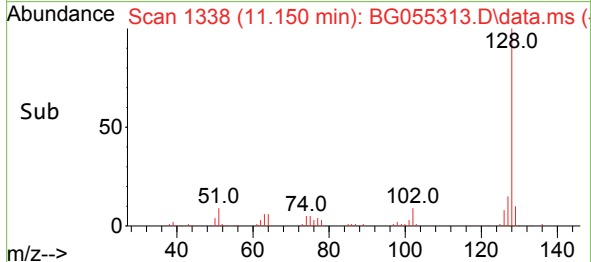
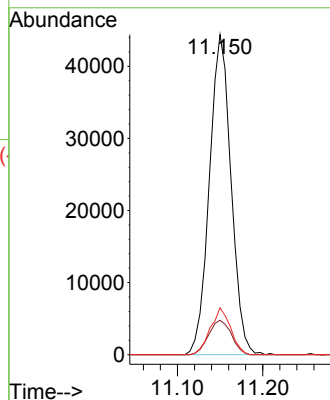
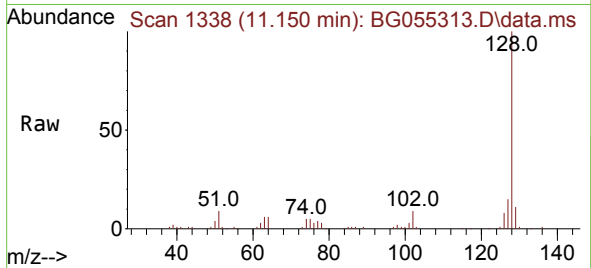




#31
Naphthalene
Concen: 6.840 ng
RT: 11.150 min Scan# 11
Delta R.T. -0.005 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

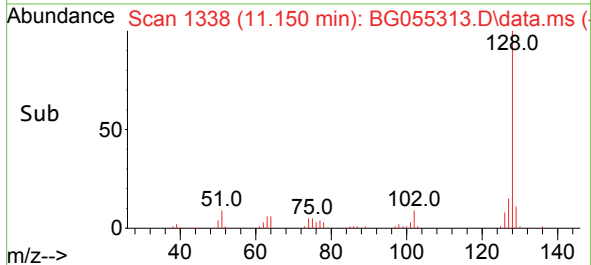
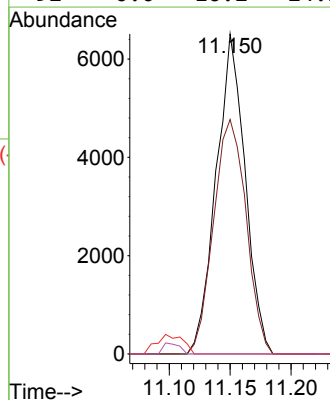
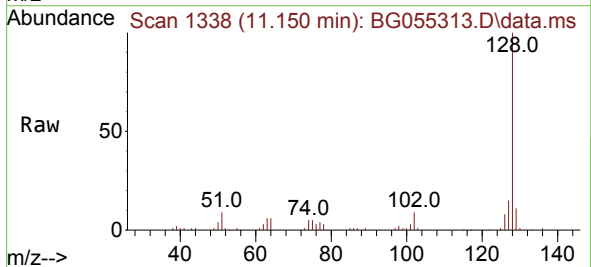
Instrument :
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ClientSampleId :
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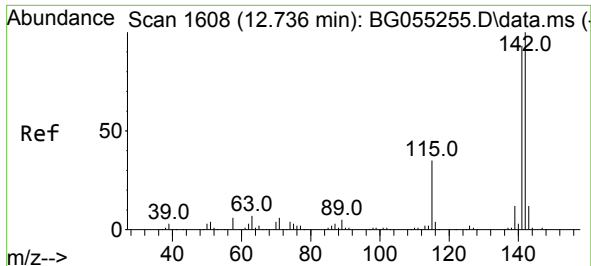
Tgt Ion:128 Resp: 78287
Ion Ratio Lower Upper
128 100
129 10.7 9.0 13.6
127 14.7 11.1 16.7



#33
4-Chloroaniline
Concen: 2.199 ng
RT: 11.150 min Scan# 1338
Delta R.T. -0.105 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

Tgt Ion:127 Resp: 10760
Ion Ratio Lower Upper
127 100
129 73.2 25.4 38.0#
65 0.0 25.5 38.3#
92 0.0 16.2 24.2#

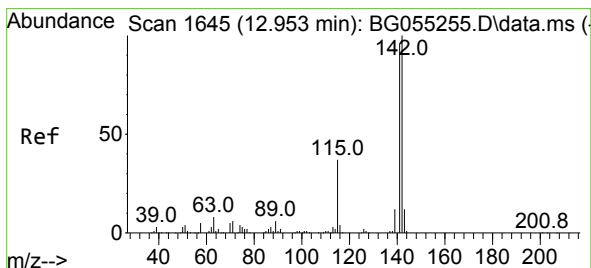
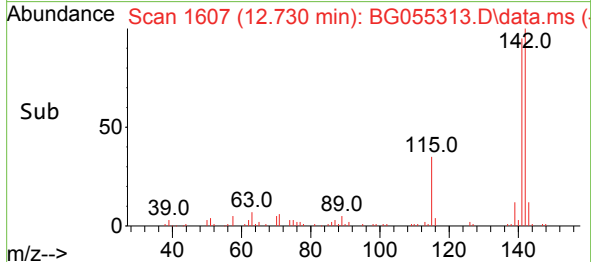
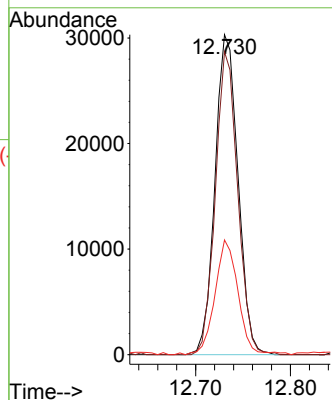
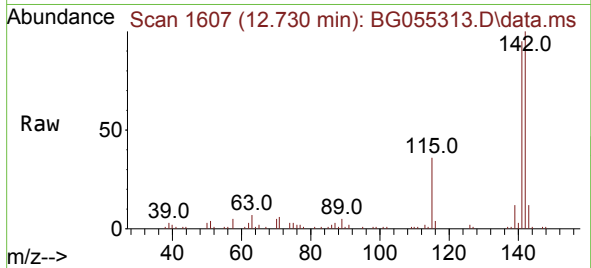




#37
2-Methylnaphthalene
Concen: 6.195 ng
RT: 12.730 min Scan# 1607
Delta R.T. -0.005 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

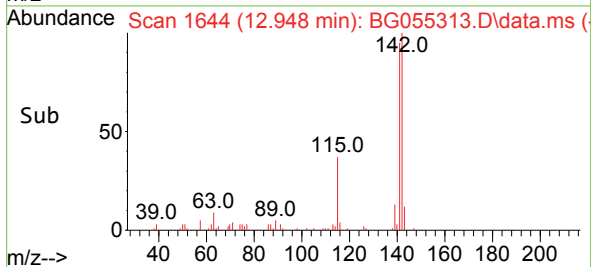
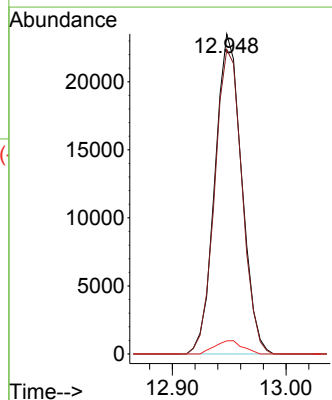
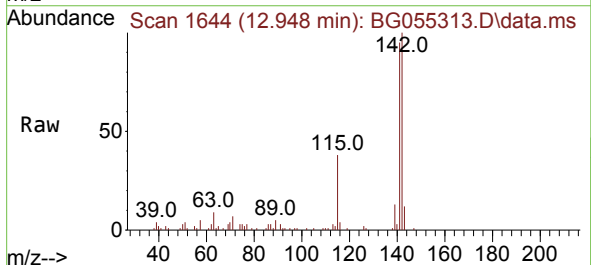
Instrument :
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ClientSampleId :
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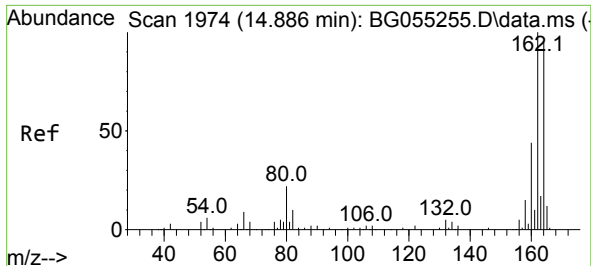
Tgt Ion:142 Resp: 51122
Ion Ratio Lower Upper
142 100
141 94.7 74.0 111.0
115 35.8 28.3 42.5



#38
1-Methylnaphthalene
Concen: 4.712 ng
RT: 12.948 min Scan# 1644
Delta R.T. -0.005 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

Tgt Ion:142 Resp: 38360
Ion Ratio Lower Upper
142 100
141 95.2 77.1 115.7
116 4.1 3.0 4.6

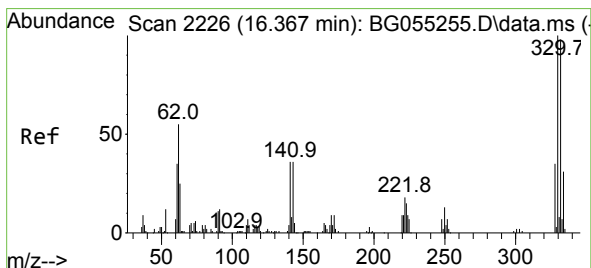
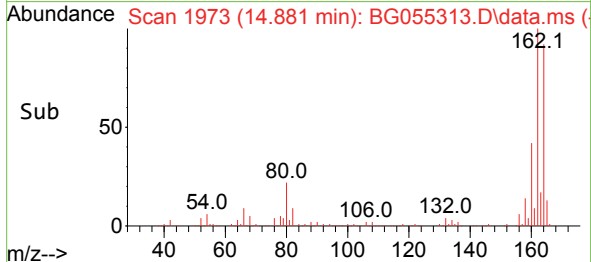
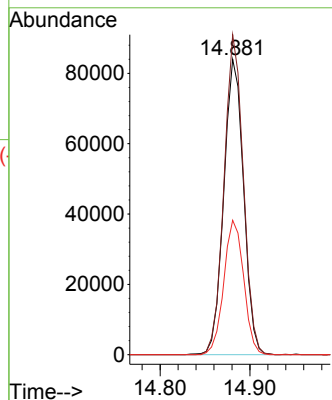
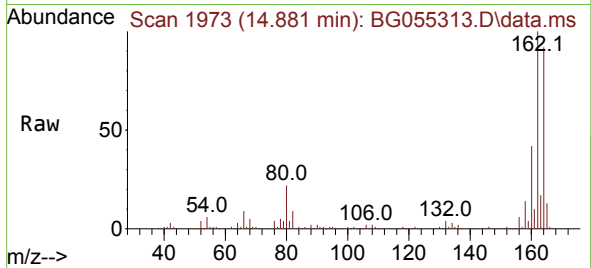




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.881 min Scan# 1974
Delta R.T. -0.005 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

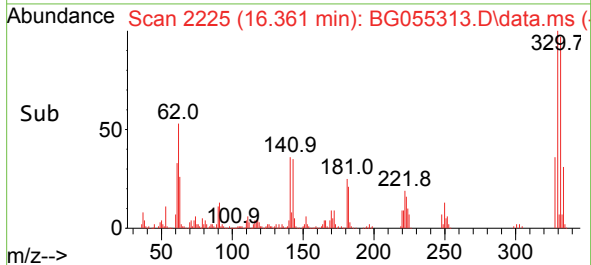
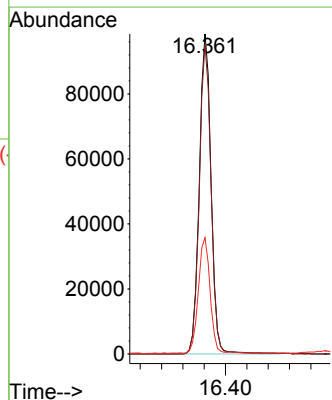
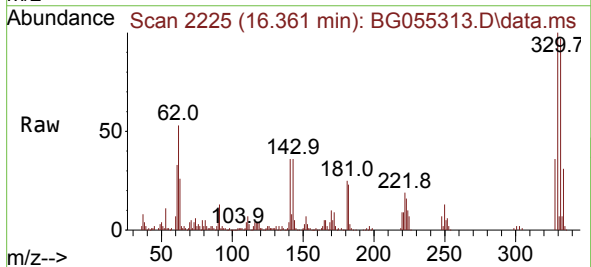
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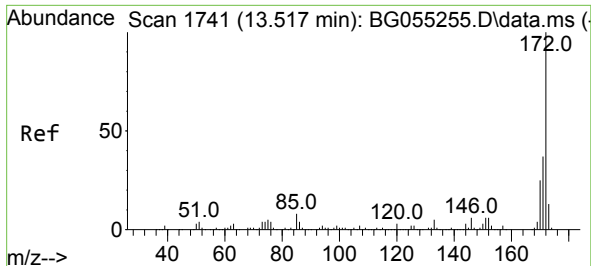
Tgt Ion:164 Resp: 128465
Ion Ratio Lower Upper
164 100
162 108.4 84.0 126.0
160 45.5 36.7 55.1



#42
2,4,6-Tribromophenol
Concen: 108.042 ng
RT: 16.361 min Scan# 2225
Delta R.T. -0.005 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

Tgt Ion:330 Resp: 150883
Ion Ratio Lower Upper
330 100
332 96.1 77.4 116.0
141 35.6 29.8 44.8

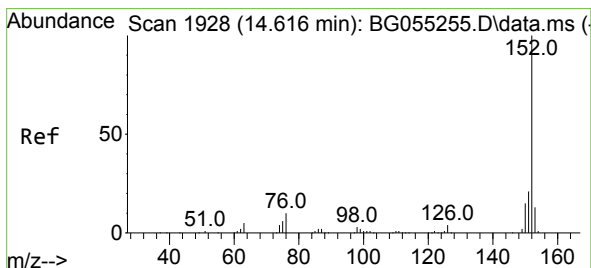
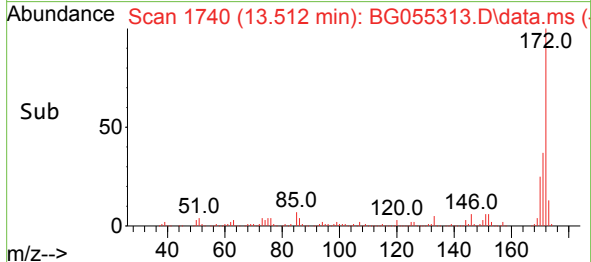
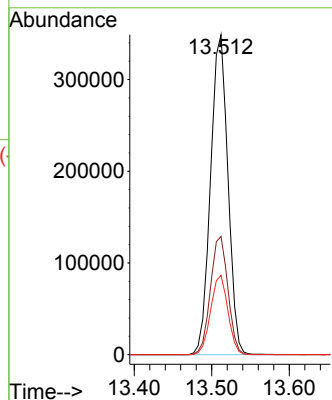
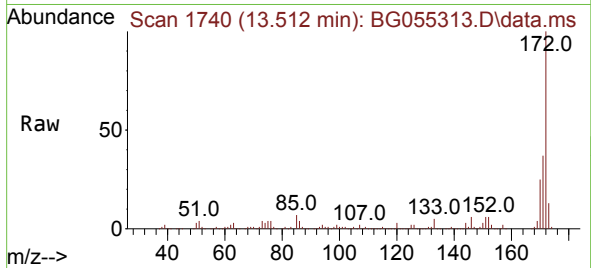




#45
2-Fluorobiphenyl
Concen: 69.112 ng
RT: 13.512 min Scan# 1
Delta R.T. -0.005 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

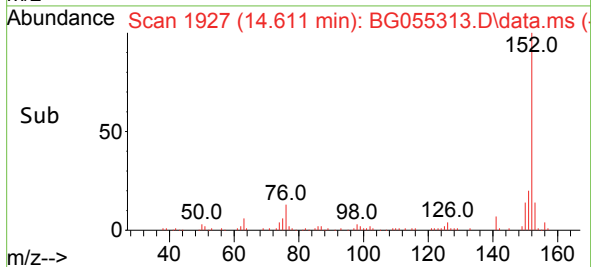
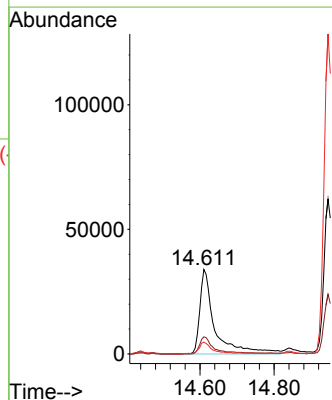
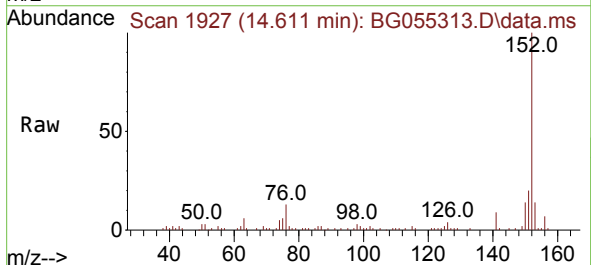
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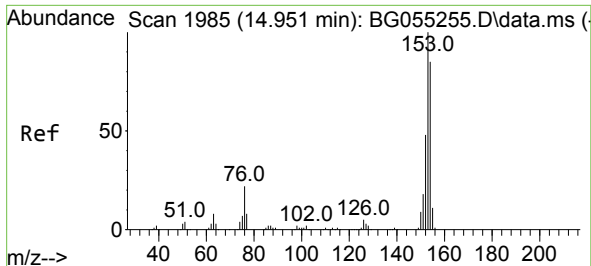
Tgt Ion:172 Resp: 542447
Ion Ratio Lower Upper
172 100
171 37.0 29.7 44.5
170 24.8 20.2 30.2



#49
Acenaphthylene
Concen: 7.930 ng
RT: 14.611 min Scan# 1927
Delta R.T. -0.005 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

Tgt Ion:152 Resp: 95118
Ion Ratio Lower Upper
152 100
151 20.4 16.6 25.0
153 14.0 10.5 15.7

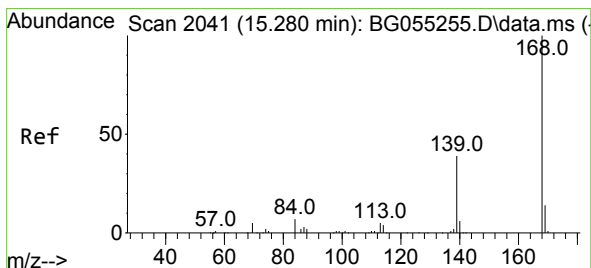
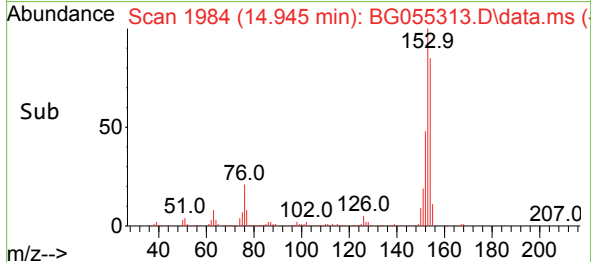
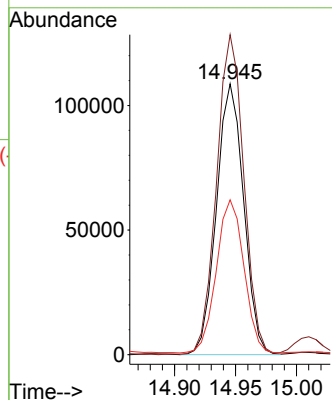
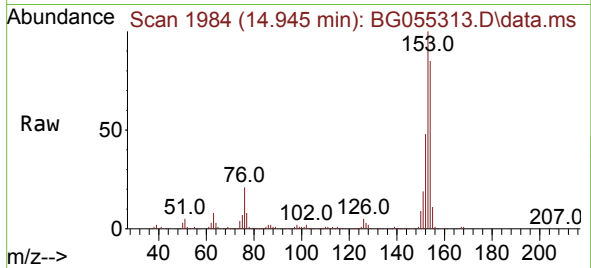




#52
Acenaphthene
Concen: 22.075 ng
RT: 14.945 min Scan# 1984
Delta R.T. -0.005 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

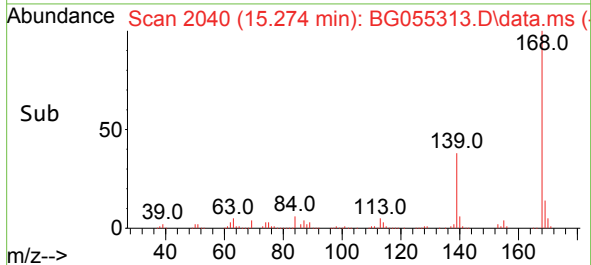
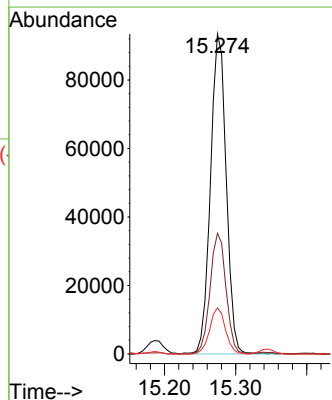
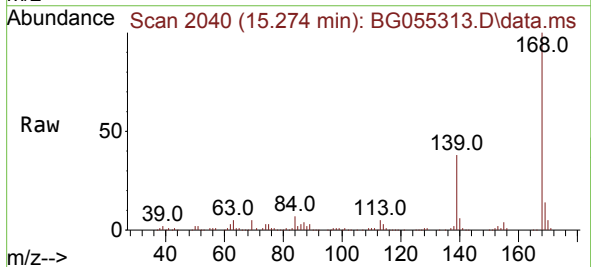
Instrument :
BNA_G
ClientSampleId :
2673

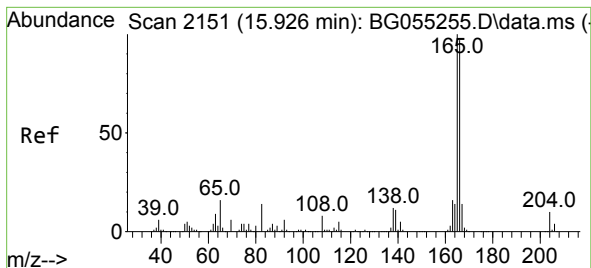
Tgt Ion:154 Resp: 168772
Ion Ratio Lower Upper
154 100
153 118.2 94.3 141.5
152 57.2 45.3 67.9



#55
Dibenzofuran
Concen: 12.529 ng
RT: 15.274 min Scan# 2040
Delta R.T. -0.005 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

Tgt Ion:168 Resp: 143703
Ion Ratio Lower Upper
168 100
139 37.7 31.6 47.4
169 14.4 11.0 16.4





#58

Fluorene

Concen: 24.576 ng

RT: 15.921 min Scan# 2151

Delta R.T. -0.005 min

Lab File: BG055313.D

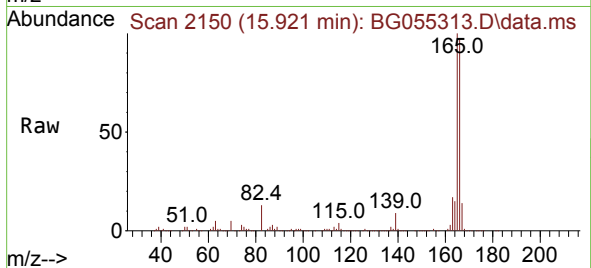
Acq: 27 Oct 2022 00:49

Instrument :

BNA_G

ClientSampleId :

2673



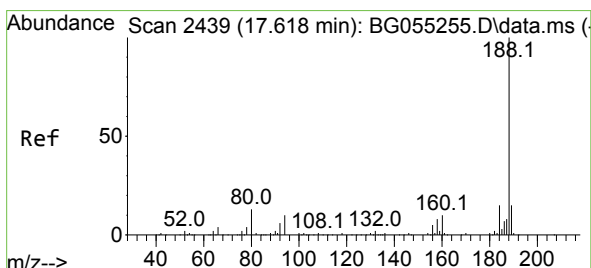
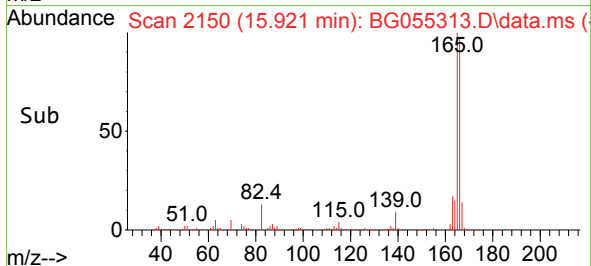
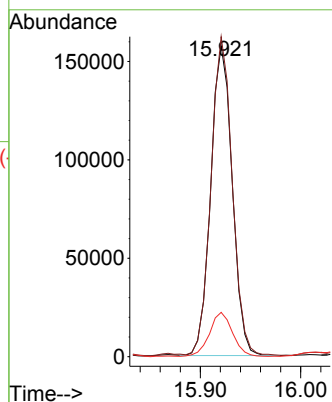
Tgt Ion:166 Resp: 234549

Ion Ratio Lower Upper

166 100

165 103.0 82.4 123.6

167 14.3 11.5 17.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.619 min Scan# 2439

Delta R.T. 0.001 min

Lab File: BG055313.D

Acq: 27 Oct 2022 00:49

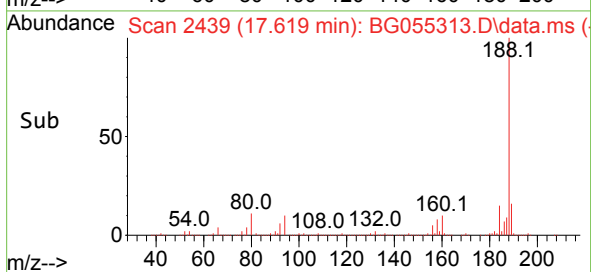
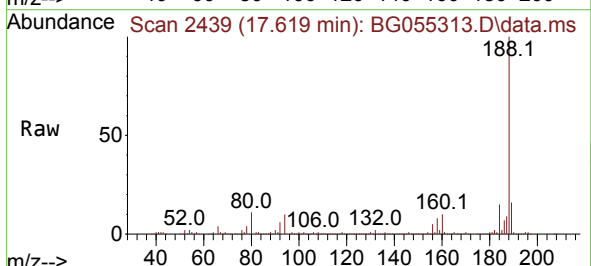
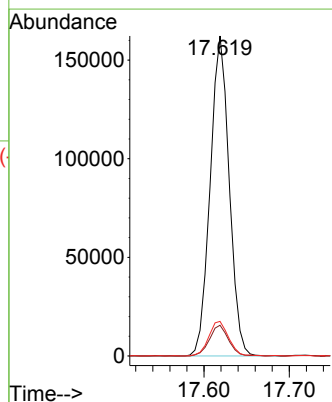
Tgt Ion:188 Resp: 251866

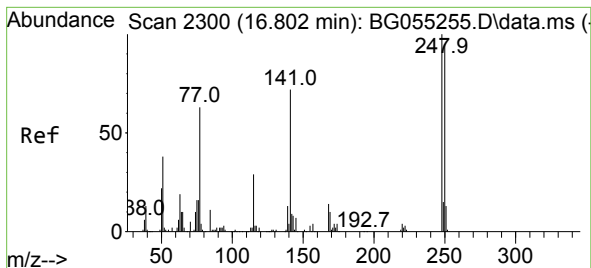
Ion Ratio Lower Upper

188 100

94 9.6 8.2 12.4

80 10.8 10.1 15.1

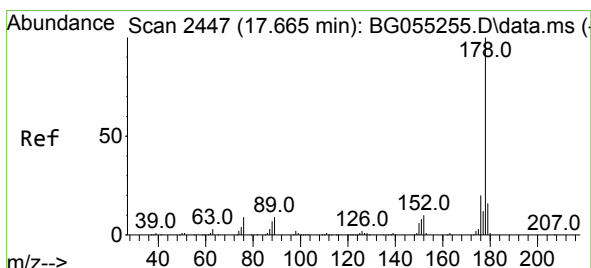
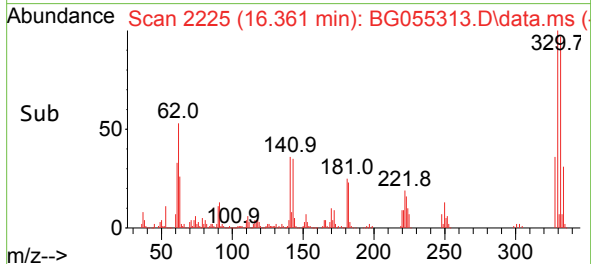
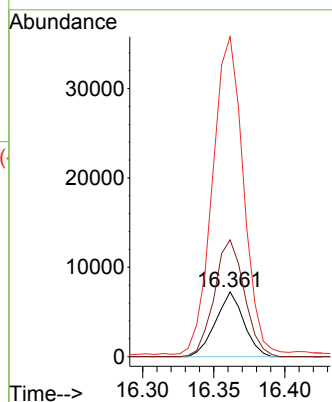
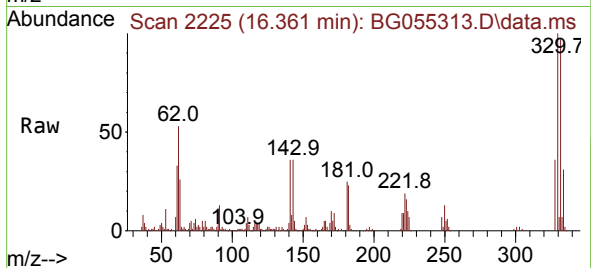




#67
4-Bromophenyl-phenylether
Concen: 4.090 ng
RT: 16.361 min Scan# 211
Delta R.T. -0.440 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

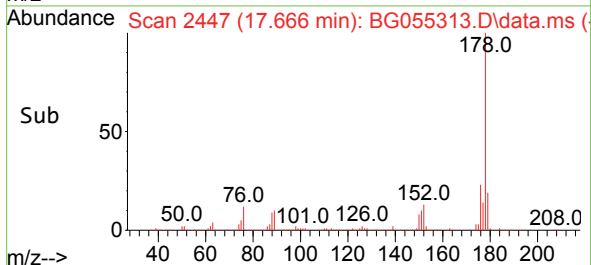
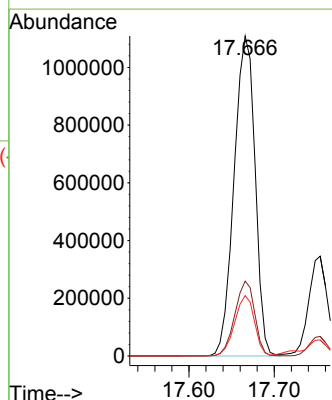
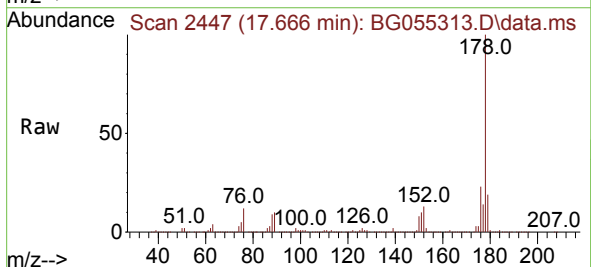
Instrument :
BNA_G
ClientSampleId :
2673

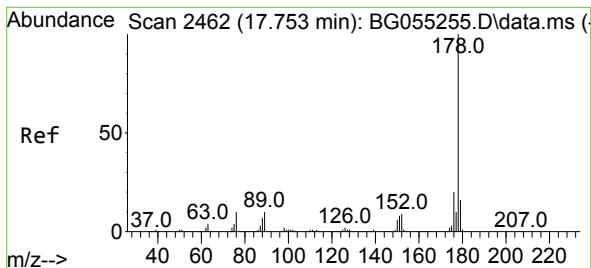
Tgt Ion:248 Resp: 10009
Ion Ratio Lower Upper
248 100
250 180.3 76.0 114.0#
141 493.8 58.0 87.0#



#71
Phenanthrene
Concen: 141.234 ng
RT: 17.666 min Scan# 2447
Delta R.T. 0.001 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

Tgt Ion:178 Resp: 1897086
Ion Ratio Lower Upper
178 100
176 23.4 16.0 24.0
179 18.9 12.6 19.0





#72

Anthracene

Concen: 39.018 ng

RT: 17.754 min Scan# 2462

Delta R.T. 0.001 min

Lab File: BG055313.D

Acq: 27 Oct 2022 00:49

Instrument :

BNA_G

ClientSampleId :

2673

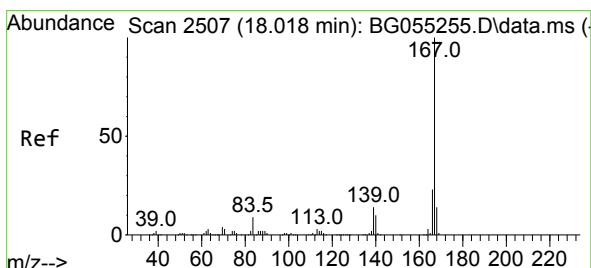
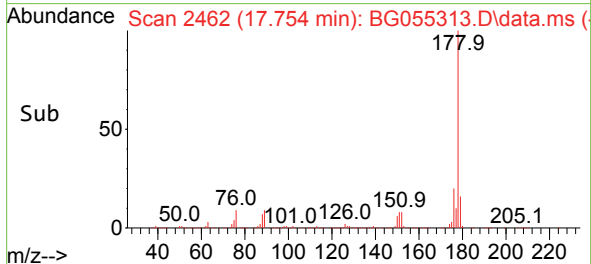
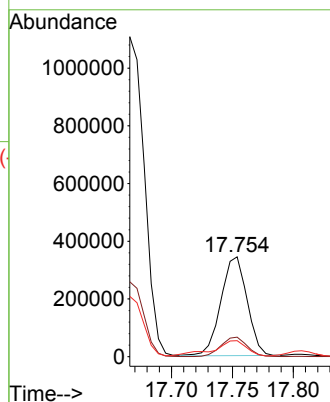
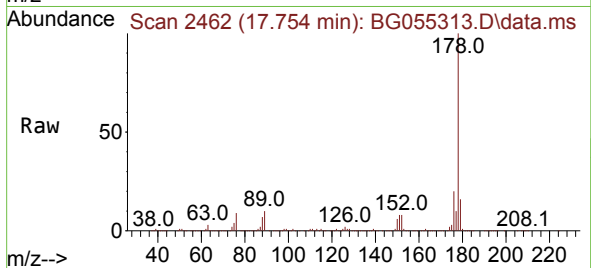
Tgt Ion:178 Resp: 512365

Ion Ratio Lower Upper

178 100

176 19.7 15.7 23.5

179 16.0 12.9 19.3



#73

Carbazole

Concen: 16.315 ng

RT: 18.012 min Scan# 2506

Delta R.T. -0.005 min

Lab File: BG055313.D

Acq: 27 Oct 2022 00:49

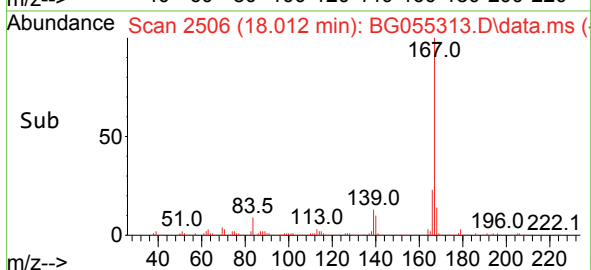
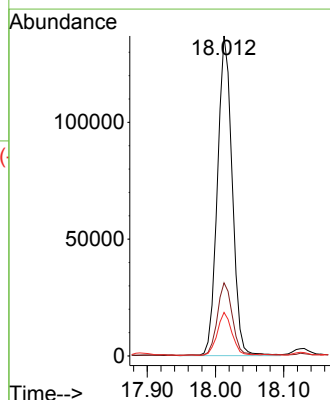
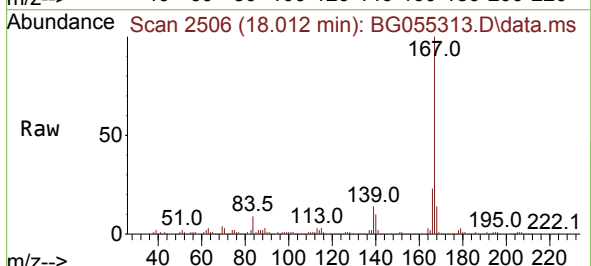
Tgt Ion:167 Resp: 206055

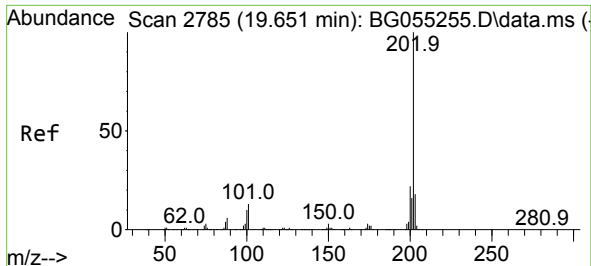
Ion Ratio Lower Upper

167 100

166 22.9 18.6 27.8

139 13.6 10.9 16.3

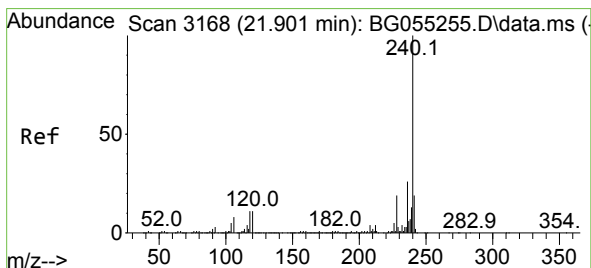
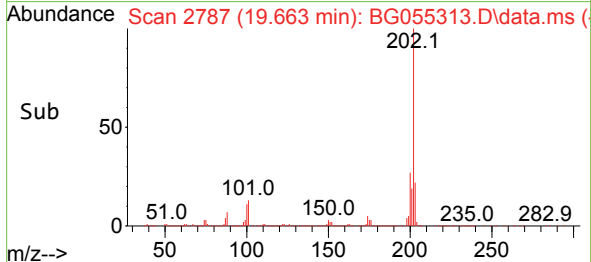
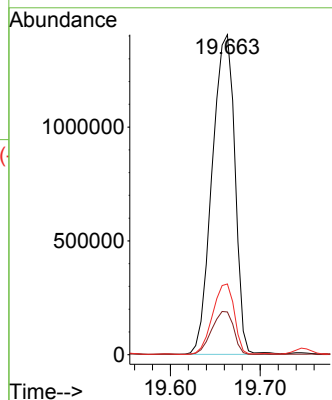
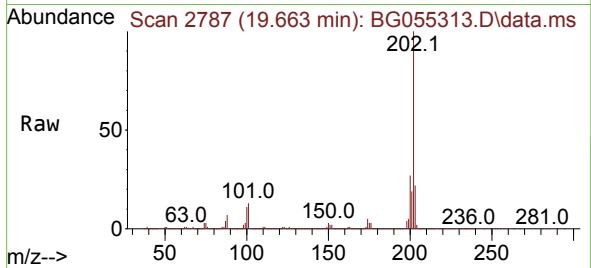




#75
Fluoranthene
Concen: 158.258 ng
RT: 19.663 min Scan# 21
Delta R.T. 0.012 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

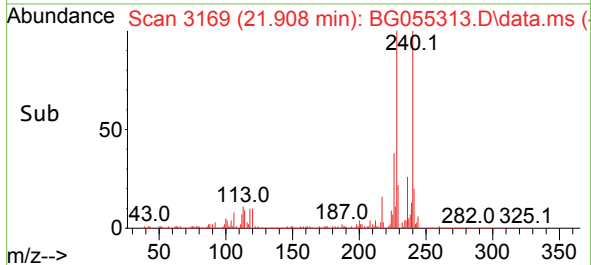
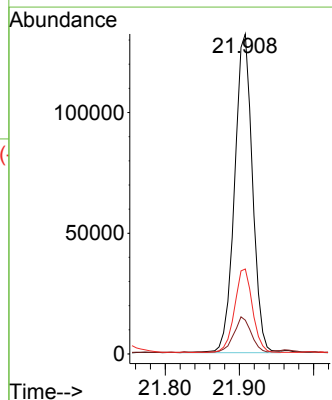
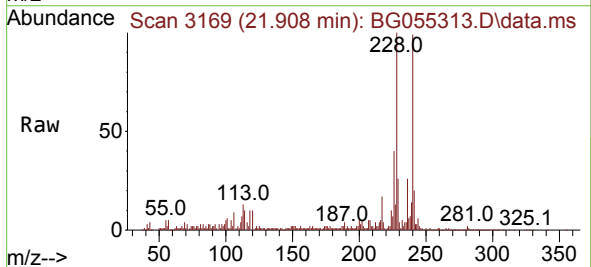
Instrument :
BNA_G
ClientSampleId :
2673

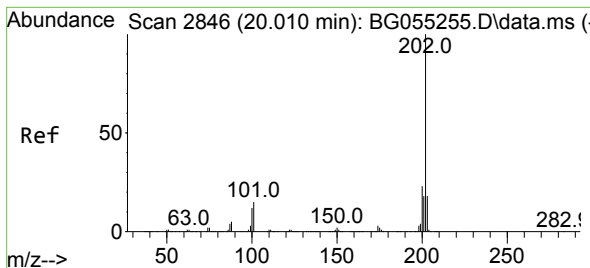
Tgt Ion:202 Resp: 2477007
Ion Ratio Lower Upper
202 100
101 13.3 0.0 32.6
203 22.1 0.0 38.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.908 min Scan# 3169
Delta R.T. 0.006 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

Tgt Ion:240 Resp: 220322
Ion Ratio Lower Upper
240 100
120 10.6 8.9 13.3
236 26.6 21.0 31.4





#78

Pyrene

Concen: 146.965 ng

RT: 20.022 min Scan# 2

Delta R.T. 0.012 min

Lab File: BG055313.D

Acq: 27 Oct 2022 00:49

Instrument :

BNA_G

ClientSampleId :

2673

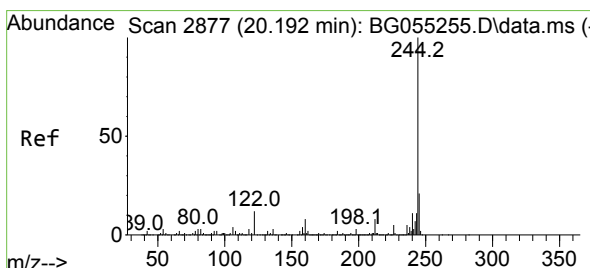
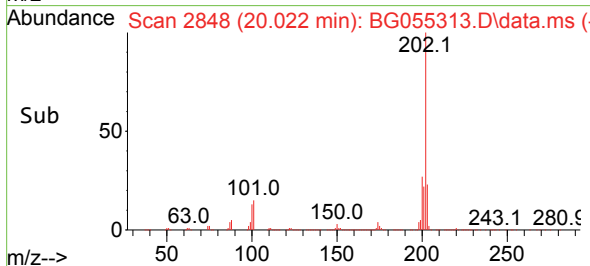
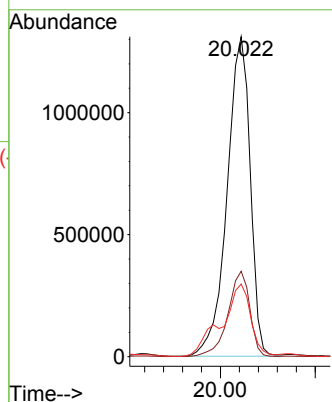
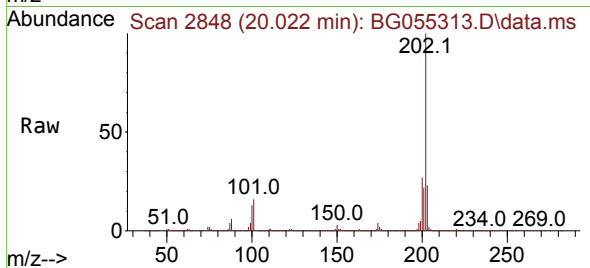
Tgt Ion:202 Resp: 2219423

Ion Ratio Lower Upper

202 100

200 26.7 18.0 27.0

203 22.7 14.3 21.5#



#79

Terphenyl-d14

Concen: 68.273 ng

RT: 20.192 min Scan# 2877

Delta R.T. 0.001 min

Lab File: BG055313.D

Acq: 27 Oct 2022 00:49

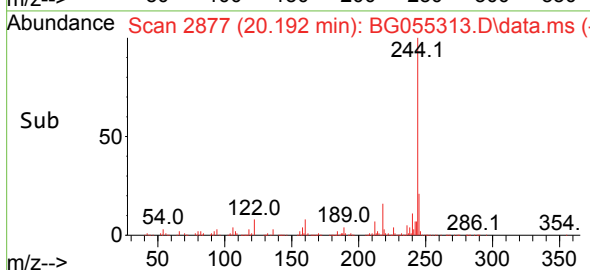
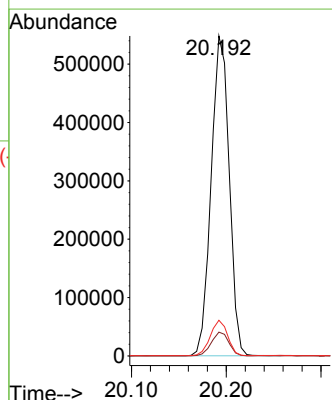
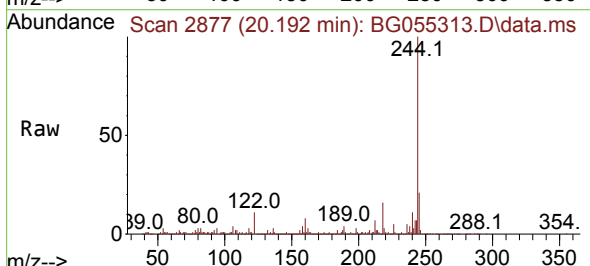
Tgt Ion:244 Resp: 723984

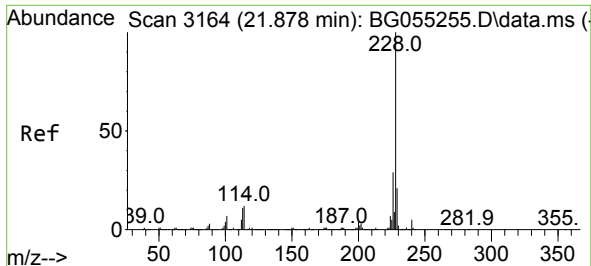
Ion Ratio Lower Upper

244 100

212 7.5 6.0 9.0

122 11.2 9.6 14.4

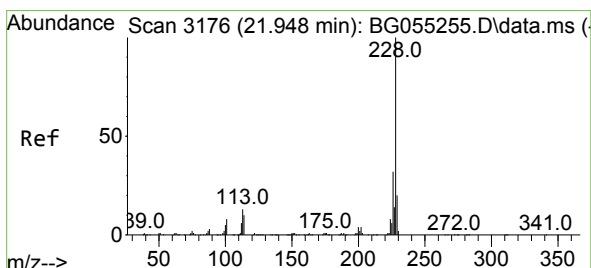
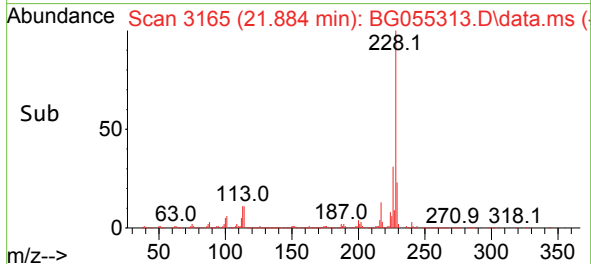
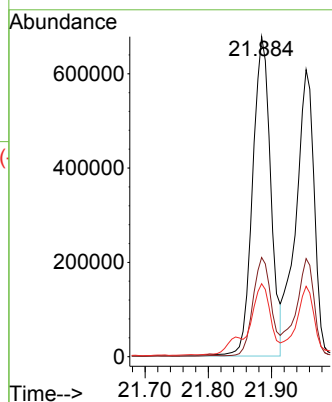
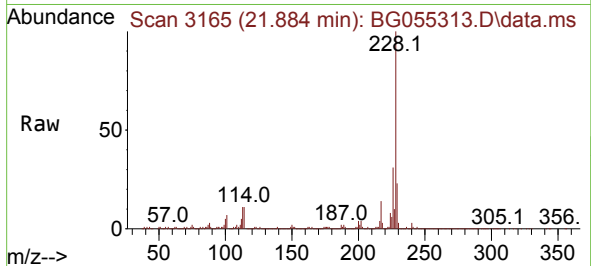




#81
Benzo(a)anthracene
Concen: 91.397 ng
RT: 21.884 min Scan# 3165
Delta R.T. 0.006 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

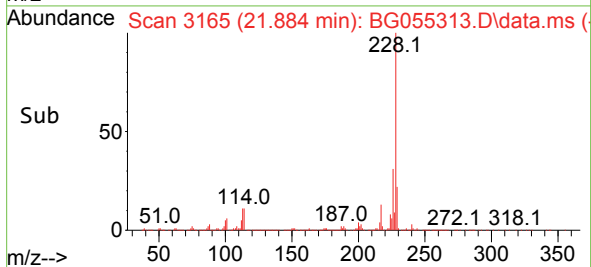
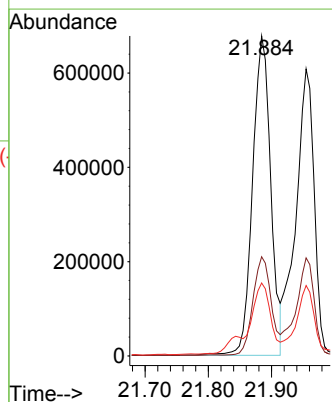
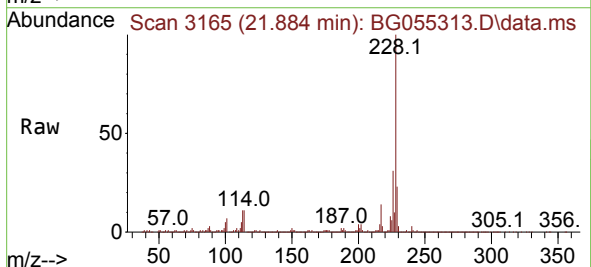
Instrument :
BNA_G
ClientSampleId :
2673

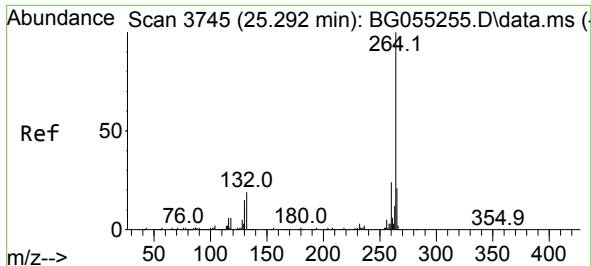
Tgt Ion:228 Resp: 1352226
Ion Ratio Lower Upper
228 100
226 31.0 22.9 34.3
229 22.8 16.7 25.1



#83
Chrysene
Concen: 96.219 ng
RT: 21.884 min Scan# 3165
Delta R.T. -0.064 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

Tgt Ion:228 Resp: 1352226
Ion Ratio Lower Upper
228 100
226 31.0 25.8 38.8
229 22.8 16.3 24.5

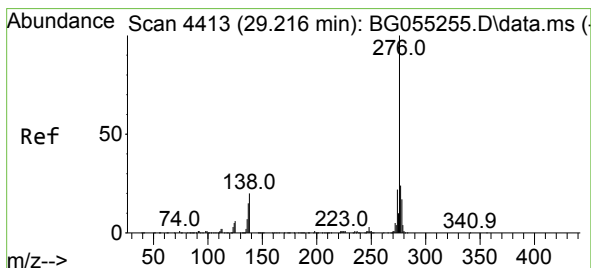
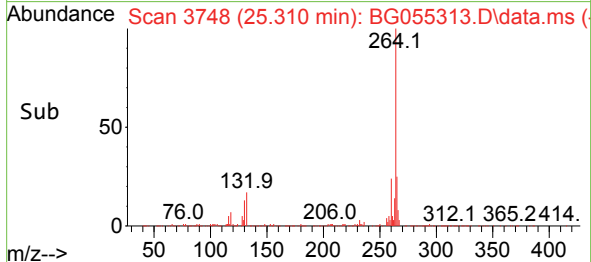
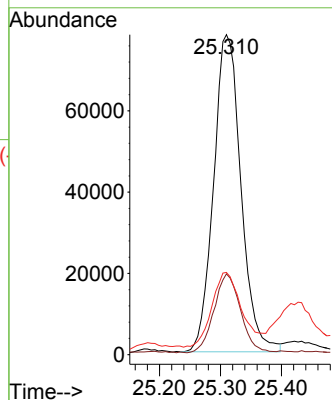
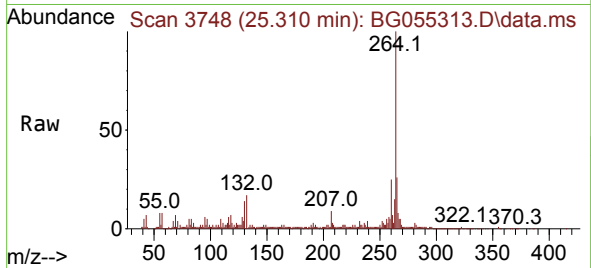




#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.310 min Scan# 31
 Delta R.T. 0.018 min
 Lab File: BG055313.D
 Acq: 27 Oct 2022 00:49

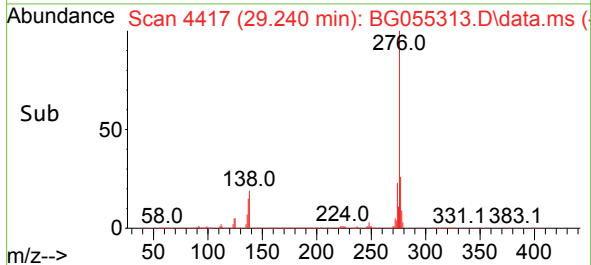
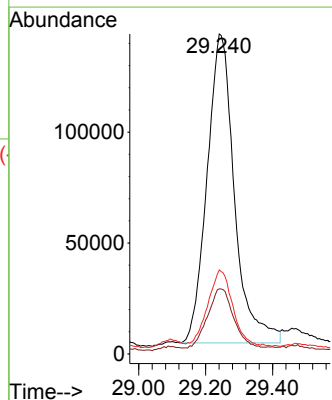
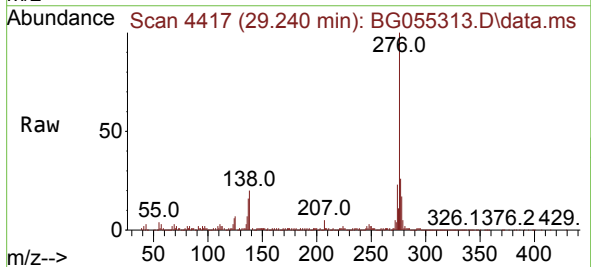
Instrument :
 BNA_G
 ClientSampleId :
 2673

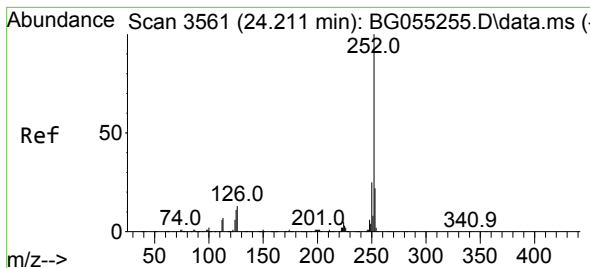
Tgt Ion:264 Resp: 243691
 Ion Ratio Lower Upper
 264 100
 260 25.3 19.5 29.3
 265 25.7 17.4 26.2



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 44.030 ng
 RT: 29.240 min Scan# 4417
 Delta R.T. 0.024 min
 Lab File: BG055313.D
 Acq: 27 Oct 2022 00:49

Tgt Ion:276 Resp: 792486
 Ion Ratio Lower Upper
 276 100
 138 18.7 13.9 20.9
 277 21.9 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 117.261 ng

RT: 24.235 min Scan# 3

Delta R.T. 0.024 min

Lab File: BG055313.D

Acq: 27 Oct 2022 00:49

Instrument :

BNA_G

ClientSampleId :

2673

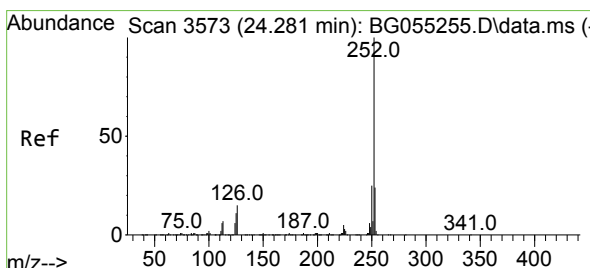
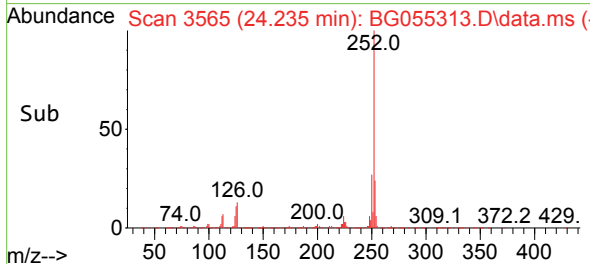
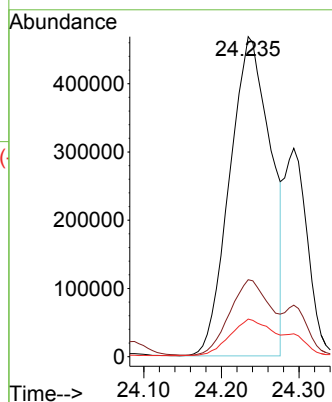
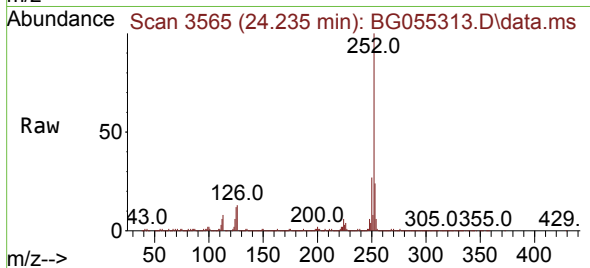
Tgt Ion:252 Resp: 1718877

Ion Ratio Lower Upper

252 100

253 24.0 17.6 26.4

125 11.7 9.0 13.4



#89

Benzo(k)fluoranthene

Concen: 116.128 ng

RT: 24.235 min Scan# 3565

Delta R.T. -0.046 min

Lab File: BG055313.D

Acq: 27 Oct 2022 00:49

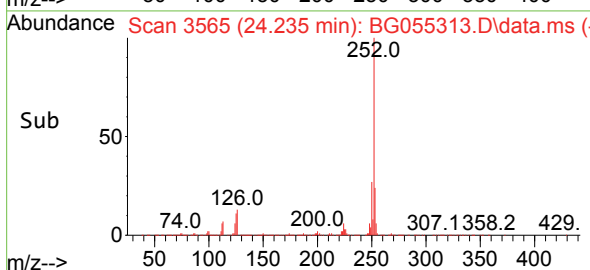
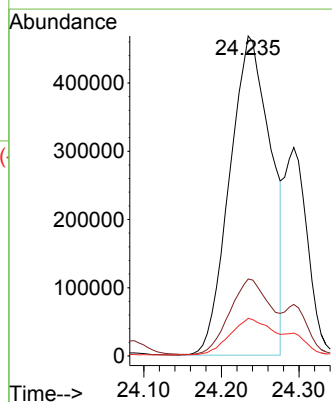
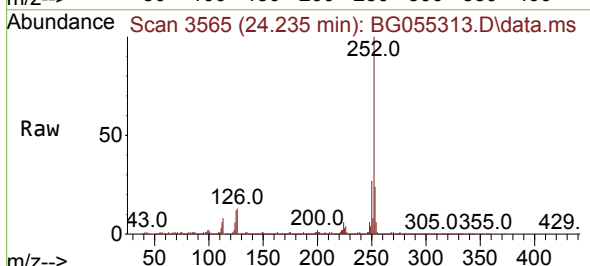
Tgt Ion:252 Resp: 1718877

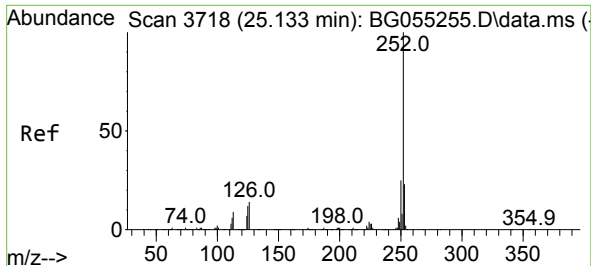
Ion Ratio Lower Upper

252 100

253 24.0 18.6 27.8

125 11.7 9.1 13.7

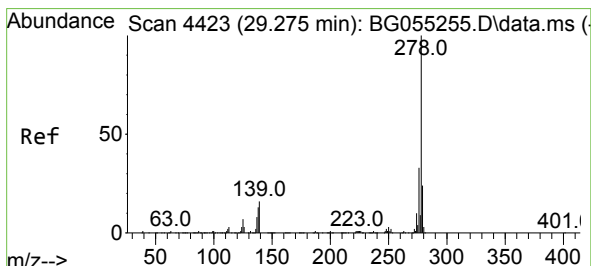
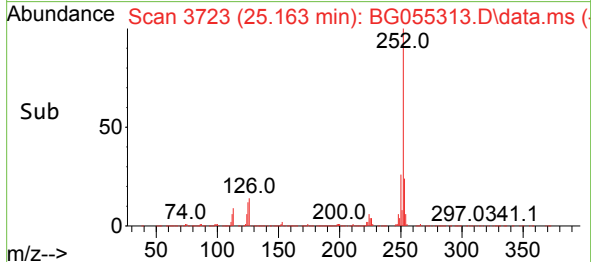
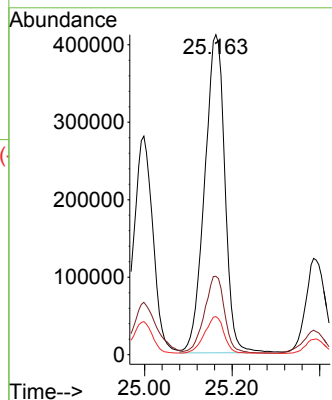
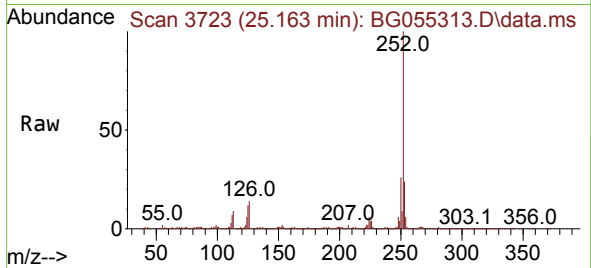




#90
Benzo(a)pyrene
Concen: 105.130 ng
RT: 25.163 min Scan# 31
Delta R.T. 0.030 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

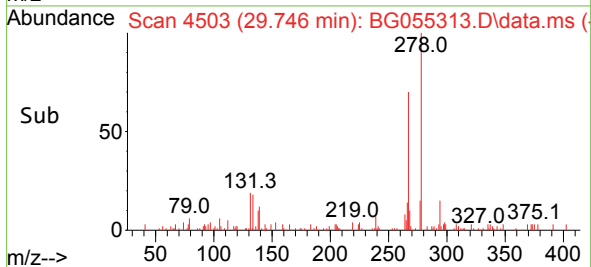
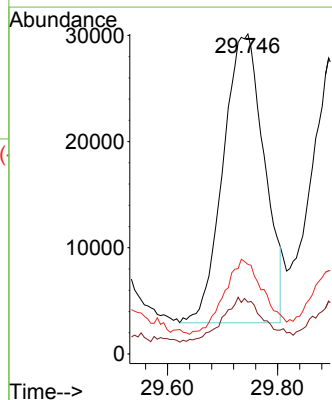
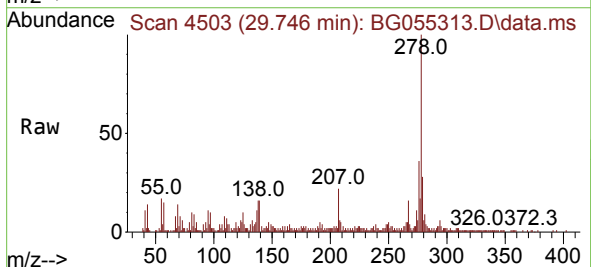
Instrument :
BNA_G
ClientSampleId :
2673

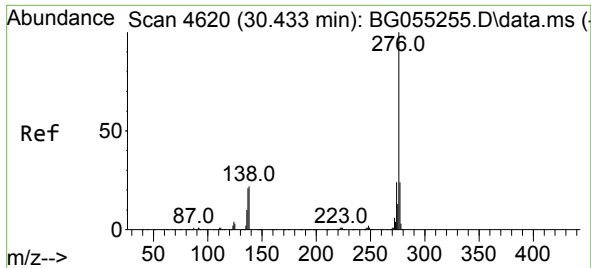
Tgt Ion:252 Resp: 1321524
Ion Ratio Lower Upper
252 100
253 24.5 18.2 27.2
125 11.9 9.8 14.8



#91
Dibenzo(a,h)anthracene
Concen: 9.507 ng
RT: 29.746 min Scan# 4503
Delta R.T. 0.471 min
Lab File: BG055313.D
Acq: 27 Oct 2022 00:49

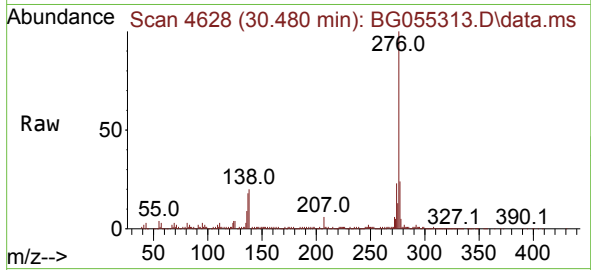
Tgt Ion:278 Resp: 140422
Ion Ratio Lower Upper
278 100
139 16.2 12.9 19.3
279 28.0 19.0 28.6





#92
 Benzo(g,h,i)perylene
 Concen: 53.484 ng
 RT: 30.480 min Scan# 4628
 Delta R.T. 0.048 min
 Lab File: BG055313.D
 Acq: 27 Oct 2022 00:49

Instrument :
 BNA_G
 ClientSampleId :
 2673



Tgt Ion:	276	Resp:	783559
Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.1	28.7
138	20.3	17.2	25.8

