

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG082523\
 Data File : BG058862.D
 Acq On : 25 Aug 2023 23:32
 Operator : MA/JU
 Sample : 04147-02
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-03(27-29)

Quant Time: Aug 26 09:19:59 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG081823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Aug 26 09:13:37 2023
 Response via : Initial Calibration

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

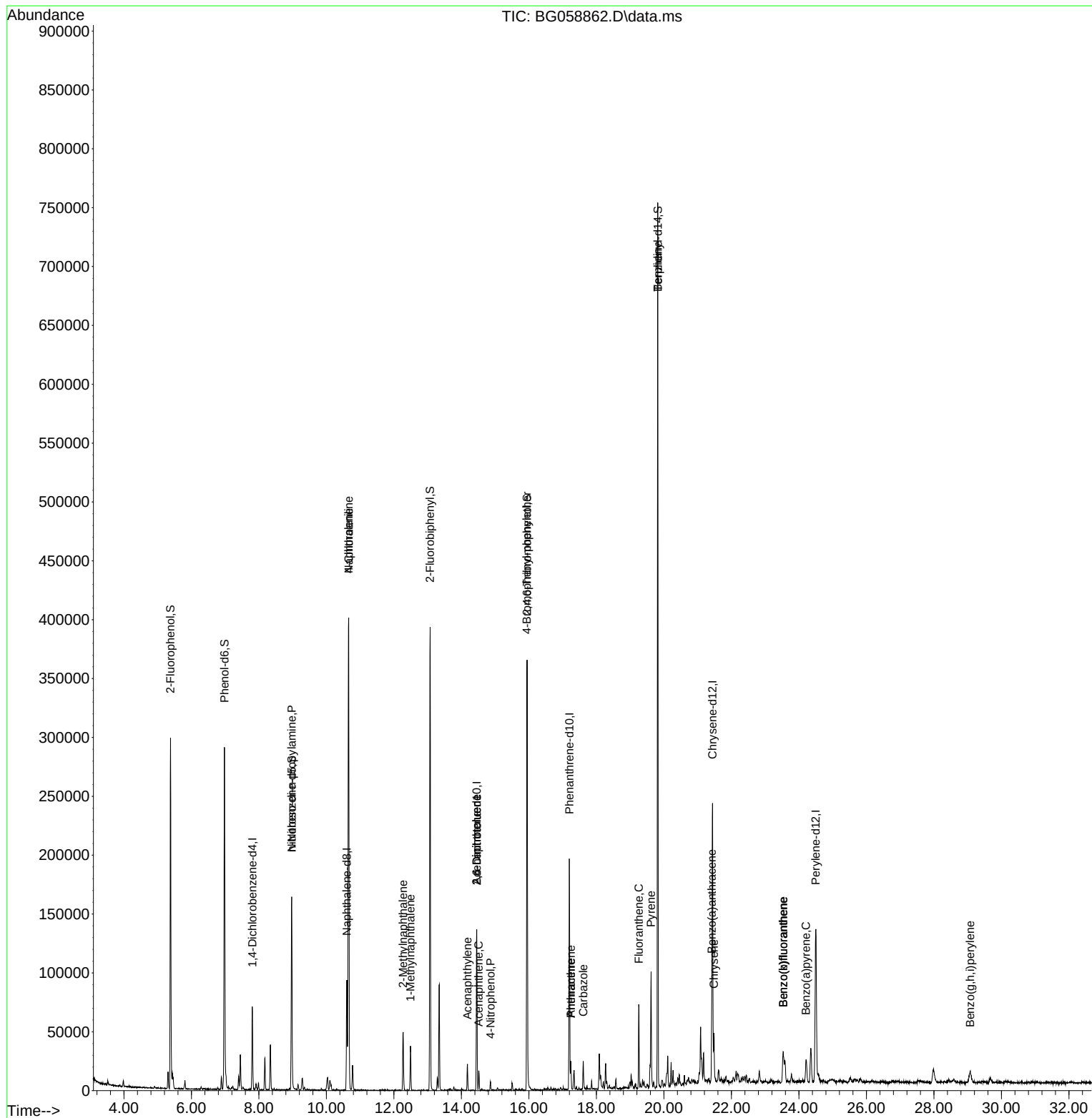
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.808	152	19493	20.000	ng	-0.02
21) Naphthalene-d8	10.605	136	77514	20.000	ng	#-0.02
39) Acenaphthene-d10	14.453	164	51624	20.000	ng	-0.02
64) Phenanthrene-d10	17.197	188	128084	20.000	ng	-0.02
76) Chrysene-d12	21.439	240	124375	20.000	ng	-0.02
86) Perylene-d12	24.500	264	152948	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	123476	101.936	ng	-0.02
7) Phenol-d6	6.980	99	163819	96.394	ng	-0.02
23) Nitrobenzene-d5	8.971	82	98271	60.952	ng	-0.02
42) 2,4,6-Tribromophenol	15.946	330	85647	105.808	ng	-0.02
45) 2-Fluorobiphenyl	13.072	172	214547	60.447	ng	-0.02
79) Terphenyl-d14	19.817	244	380865	54.985	ng	-0.02
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	8.971	70	12516	11.393	ng	# 75
31) Naphthalene	10.658	128	343270	84.342	ng	100
33) 4-Chloroaniline	10.658	127	44913	26.166	ng	# 29
37) 2-Methylnaphthalene	12.273	142	25718	8.798	ng	96
38) 1-Methylnaphthalene	12.491	142	18233	6.571	ng	96
49) Acenaphthylene	14.177	152	17427	3.792	ng	96
51) 2,6-Dinitrotoluene	14.453	165	6920	8.241	ng	# 22
52) Acenaphthene	14.512	154	6649	2.476	ng	90
56) 4-Nitrophenol	14.864	139	2266	8.110	ng	# 1
57) 2,4-Dinitrotoluene	14.453	165	6920	5.908	ng	# 19
67) 4-Bromophenyl-phenylether	15.940	248	5004	3.560	ng	# 1
71) Phenanthrene	17.244	178	15550	2.529	ng	99
72) Anthracene	17.244	178	15550	2.521	ng	99
73) Carbazole	17.608	167	17261	3.056	ng	96
75) Fluoranthene	19.259	202	40713	5.339	ng	94
77) Benzidine	19.817	184	5714	2.563	ng	# 93
78) Pyrene	19.618	202	62993	7.269	ng	99
81) Benzo(a)anthracene	21.416	228	34562	3.992	ng	97
83) Chrysene	21.480	228	29268	3.507	ng	94
88) Benzo(b)fluoranthene	23.537	252	38339	4.518	ng	96
89) Benzo(k)fluoranthene	23.537	252	38339	4.381	ng	97
90) Benzo(a)pyrene	24.206	252	21852	2.615	ng	96
92) Benzo(g,h,i)perylene	29.071	276	20860	2.454	ng	# 94

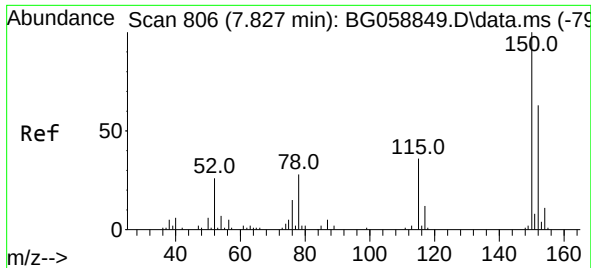
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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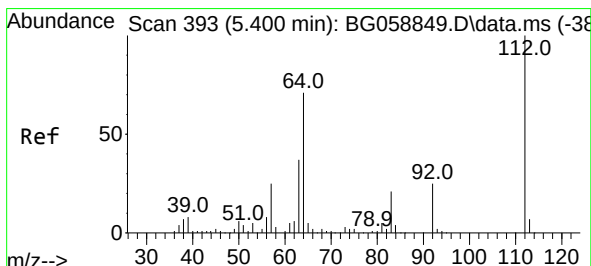
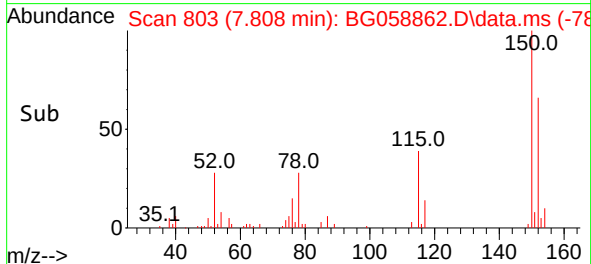
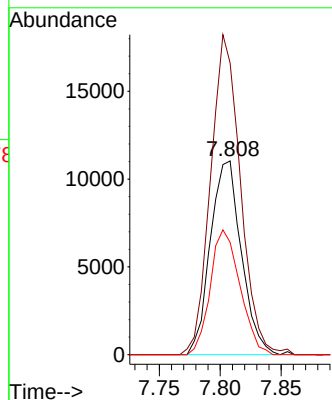
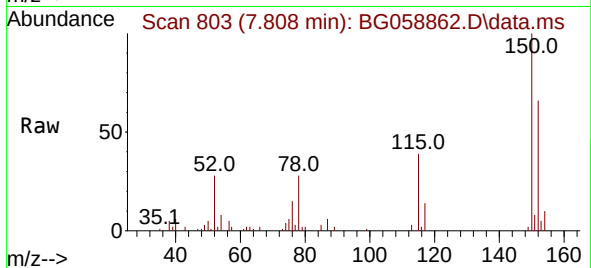




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.808 min Scan# 806
Delta R.T. -0.019 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

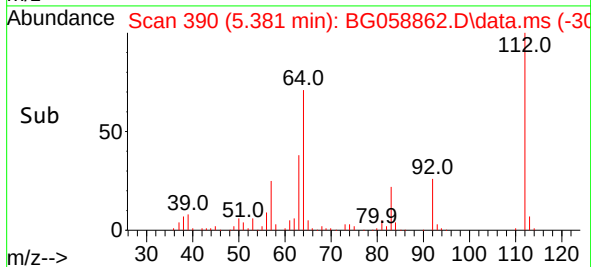
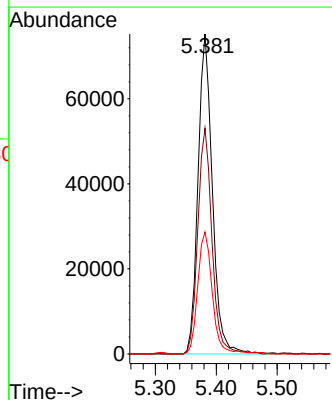
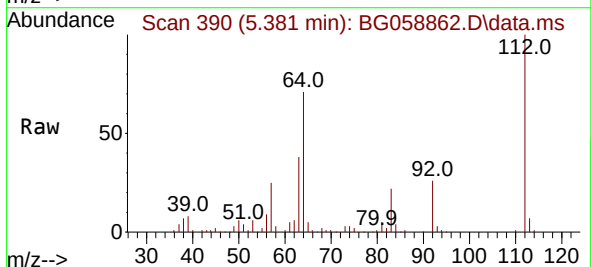
Instrument :
BNA_G
ClientSampleId :
SB-03(27-29)

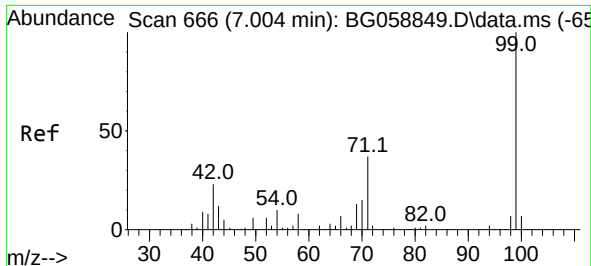
Tgt Ion:152 Resp: 19493
Ion Ratio Lower Upper
152 100
150 150.5 128.6 192.8
115 58.0 50.4 75.6



#5
2-Fluorophenol
Concen: 101.936 ng
RT: 5.381 min Scan# 390
Delta R.T. -0.019 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

Tgt Ion:112 Resp: 123476
Ion Ratio Lower Upper
112 100
64 70.6 60.6 90.8
63 38.1 31.0 46.4

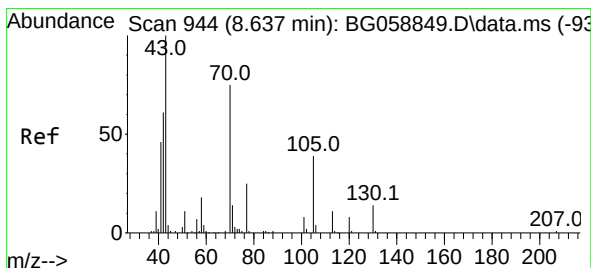
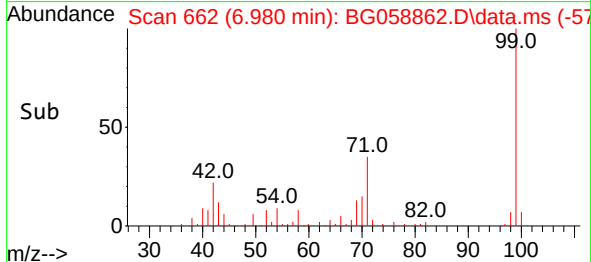
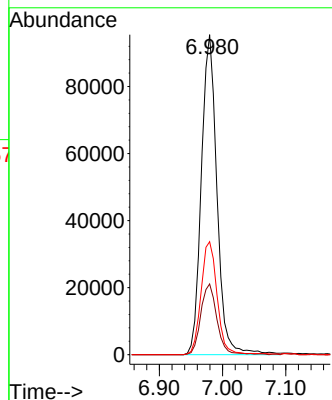
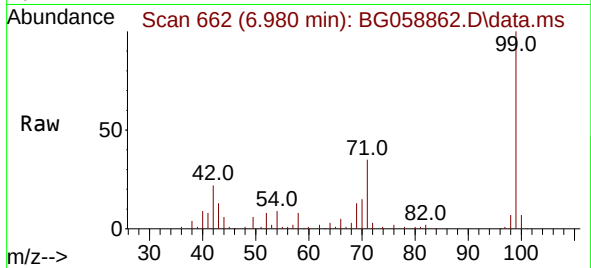




#7
Phenol-d6
Concen: 96.394 ng
RT: 6.980 min Scan# 60
Delta R.T. -0.025 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

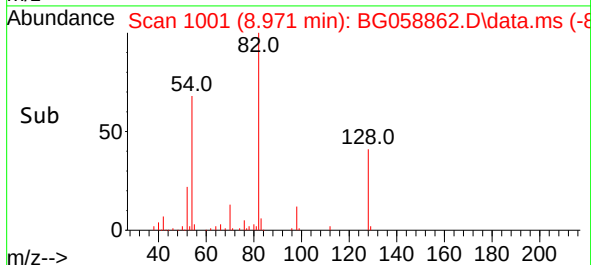
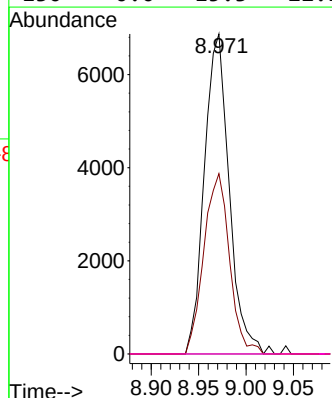
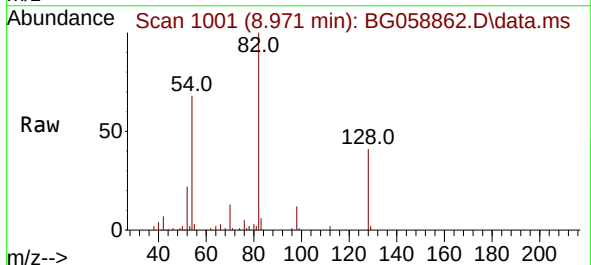
Instrument :
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SB-03(27-29)

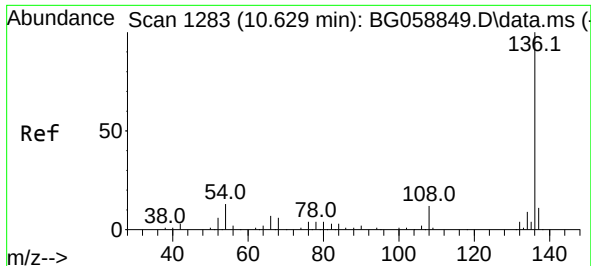
Tgt Ion: 99 Resp: 163819
Ion Ratio Lower Upper
99 100
42 22.1 16.5 24.7
71 35.3 28.4 42.6



#19
n-Nitroso-di-n-propylamine
Concen: 11.393 ng
RT: 8.971 min Scan# 1001
Delta R.T. 0.334 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

Tgt Ion: 70 Resp: 12516
Ion Ratio Lower Upper
70 100
42 56.4 59.2 88.8#
101 0.0 8.2 12.2#
130 0.0 15.3 22.9#

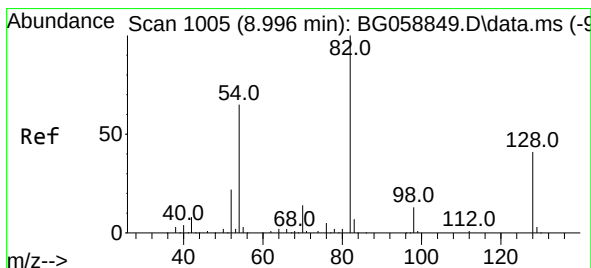
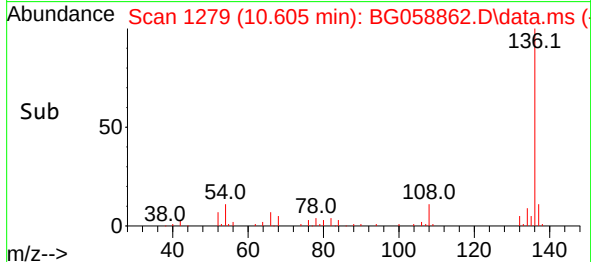
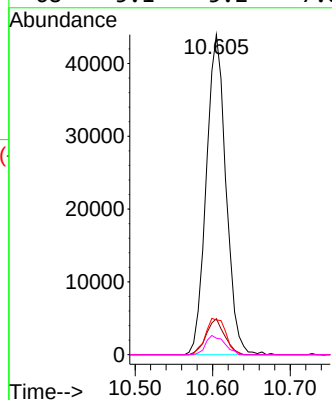
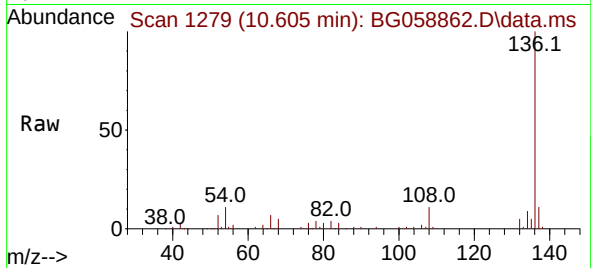




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.605 min Scan# 11
Delta R.T. -0.025 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

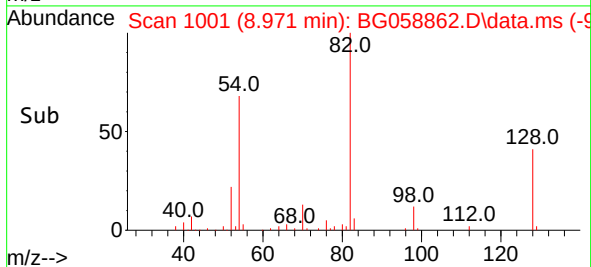
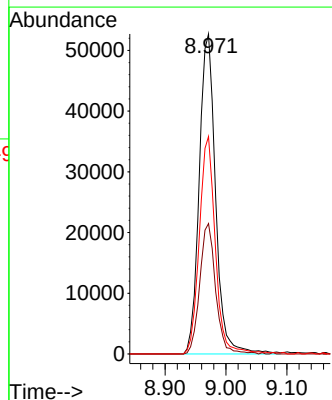
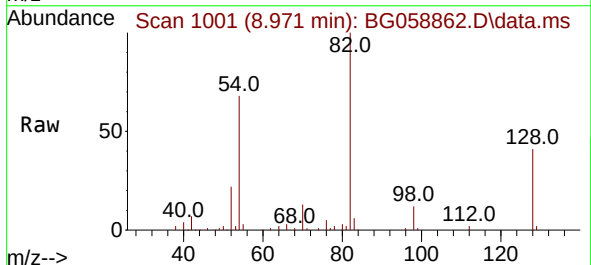
Instrument :
BNA_G
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SB-03(27-29)

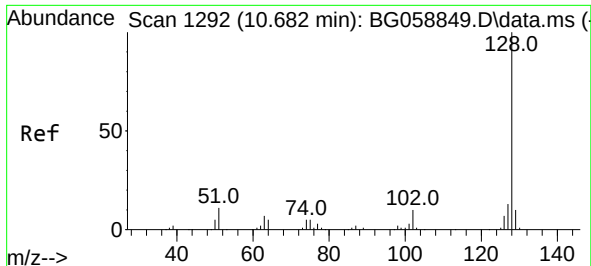
Tgt Ion:136 Resp: 77514
Ion Ratio Lower Upper
136 100
137 11.3 8.7 13.1
54 10.8 10.1 15.1
68 5.1 5.2 7.8#



#23
Nitrobenzene-d5
Concen: 60.952 ng
RT: 8.971 min Scan# 1001
Delta R.T. -0.025 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

Tgt Ion: 82 Resp: 98271
Ion Ratio Lower Upper
82 100
128 40.8 33.2 49.8
54 68.0 51.2 76.8

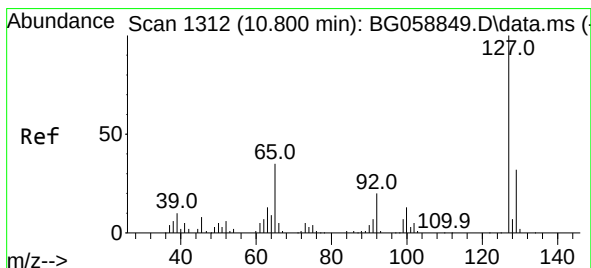
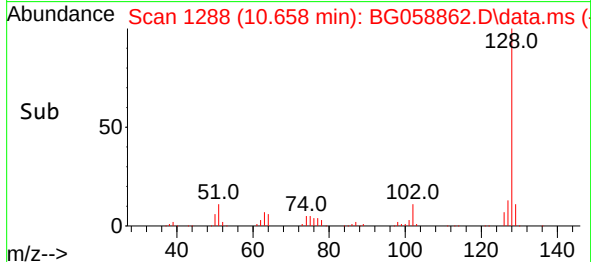
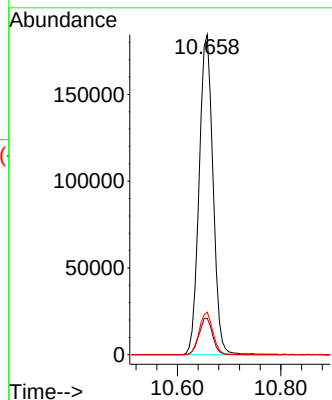
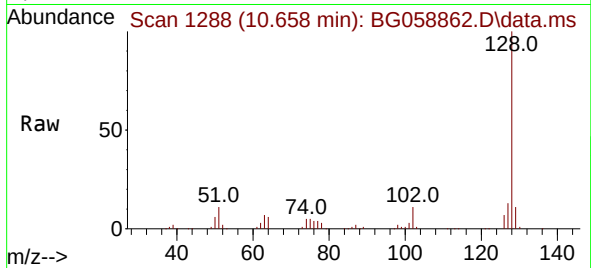




#31
Naphthalene
Concen: 84.342 ng
RT: 10.658 min Scan# 11
Delta R.T. -0.025 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

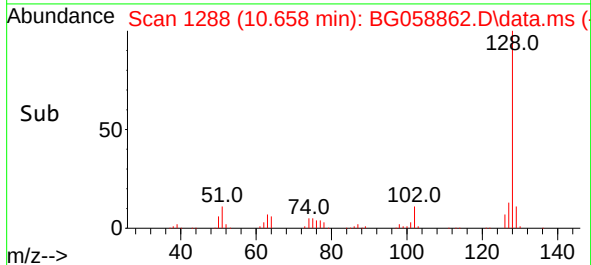
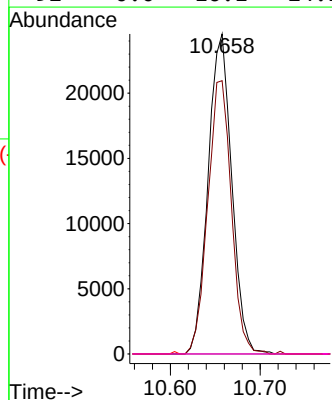
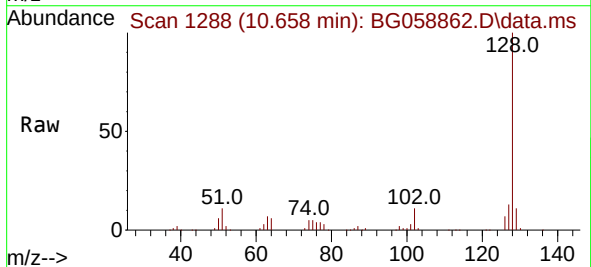
Instrument :
BNA_G
ClientSampleId :
SB-03(27-29)

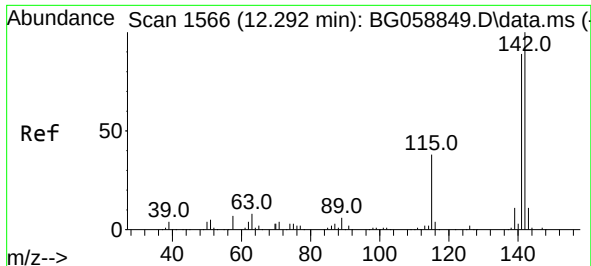
Tgt Ion:128 Resp: 343270
Ion Ratio Lower Upper
128 100
129 11.4 8.9 13.3
127 13.3 10.6 15.8



#33
4-Chloroaniline
Concen: 26.166 ng
RT: 10.658 min Scan# 1288
Delta R.T. -0.142 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

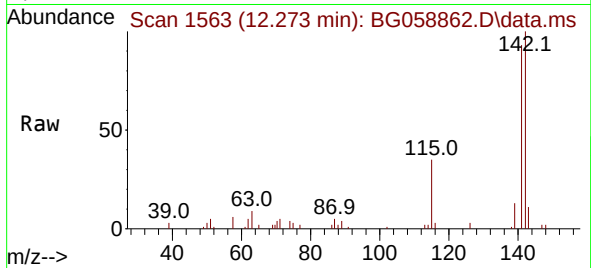
Tgt Ion:127 Resp: 44913
Ion Ratio Lower Upper
127 100
129 85.4 25.2 37.8#
65 0.0 30.5 45.7#
92 0.0 16.1 24.1#



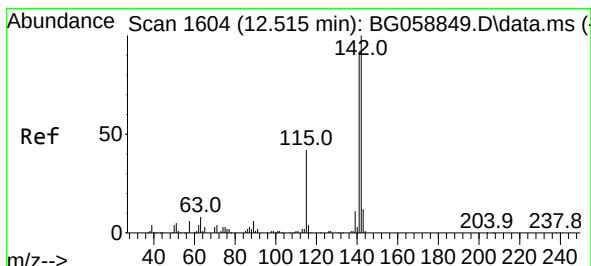
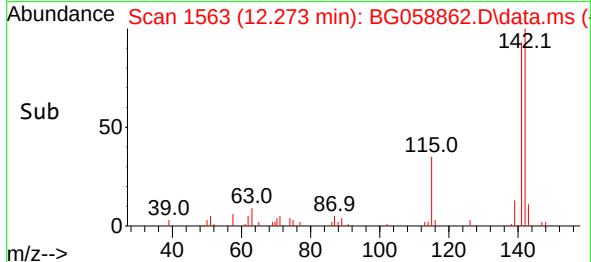
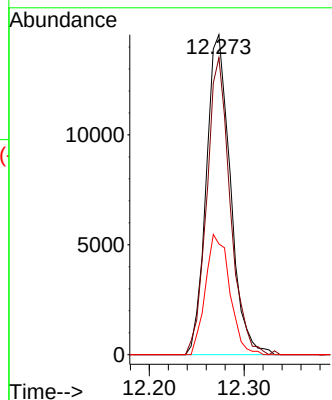


#37
2-Methylnaphthalene
Concen: 8.798 ng
RT: 12.273 min Scan# 11
Delta R.T. -0.019 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

Instrument :
BNA_G
ClientSampleId :
SB-03(27-29)

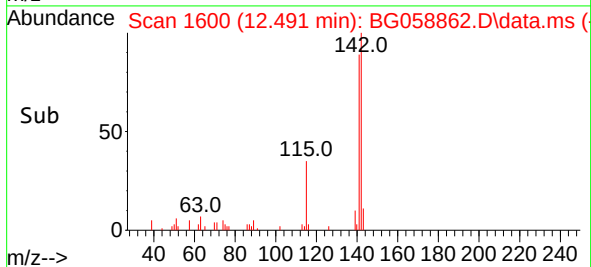
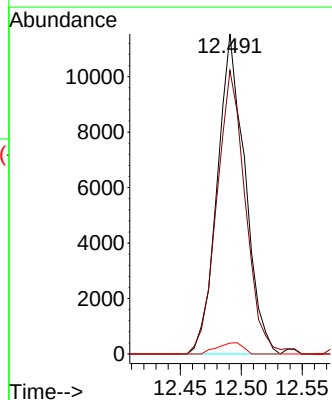
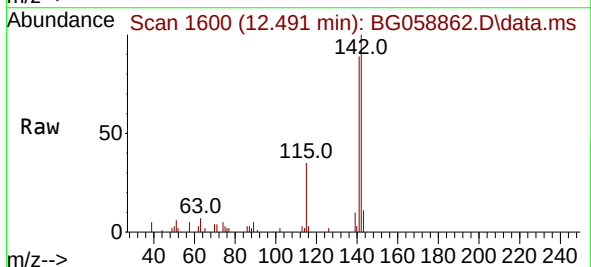


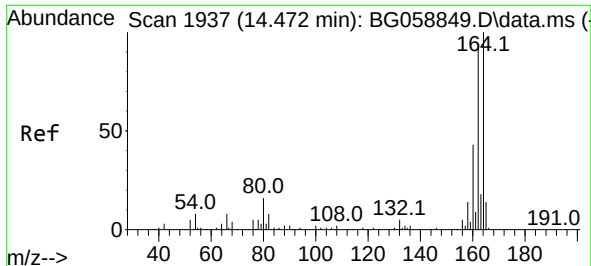
Tgt Ion:142 Resp: 25718
Ion Ratio Lower Upper
142 100
141 92.8 71.8 107.8
115 34.6 30.6 45.8



#38
1-Methylnaphthalene
Concen: 6.571 ng
RT: 12.491 min Scan# 1600
Delta R.T. -0.025 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

Tgt Ion:142 Resp: 18233
Ion Ratio Lower Upper
142 100
141 88.6 73.9 110.9
116 3.4 3.2 4.8

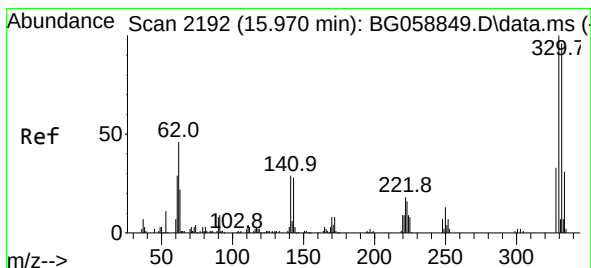
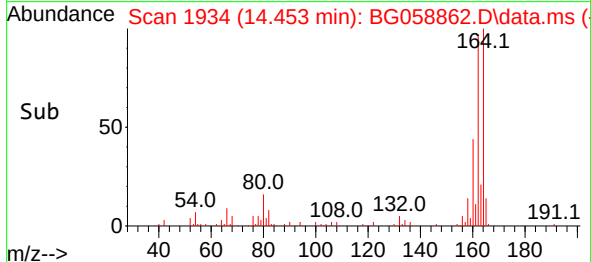
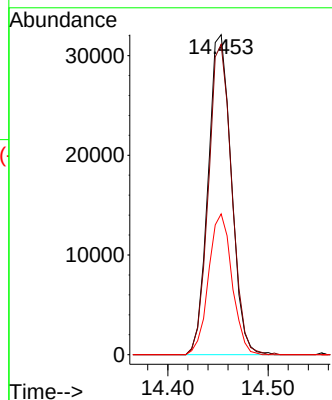
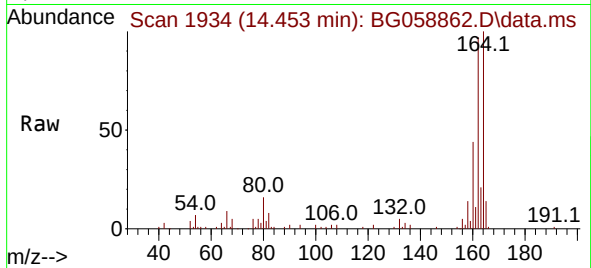




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.453 min Scan# 1934
Delta R.T. -0.019 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

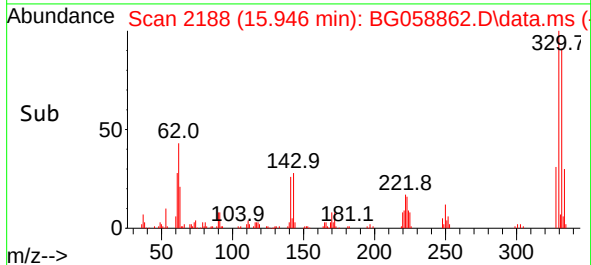
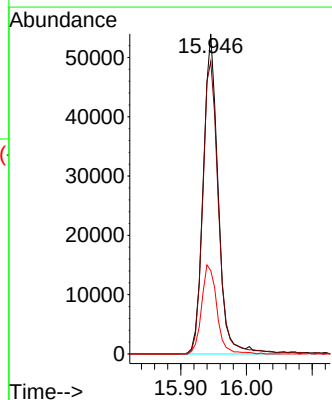
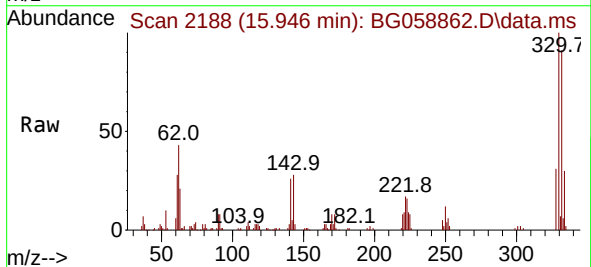
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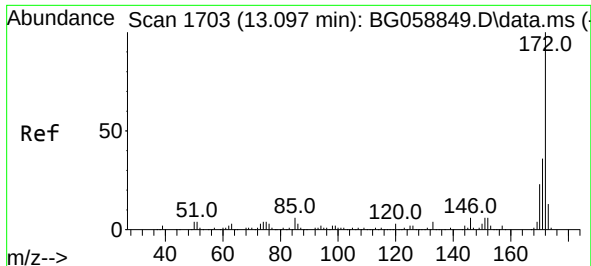
Tgt Ion:164 Resp: 51624
Ion Ratio Lower Upper
164 100
162 97.0 79.6 119.4
160 44.0 34.0 51.0



#42
2,4,6-Tribromophenol
Concen: 105.808 ng
RT: 15.946 min Scan# 2188
Delta R.T. -0.025 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

Tgt Ion:330 Resp: 85647
Ion Ratio Lower Upper
330 100
332 96.1 78.5 117.7
141 28.4 23.0 34.6

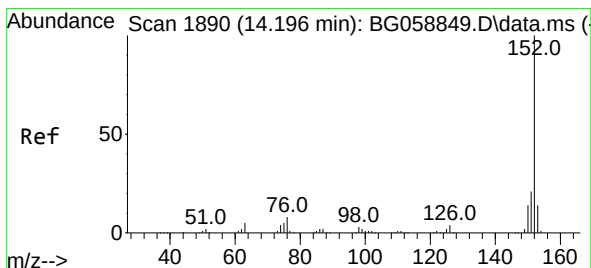
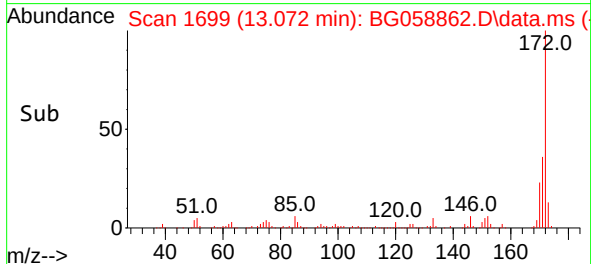
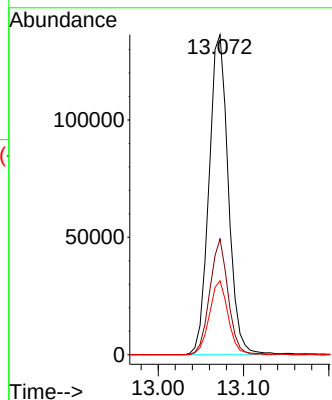
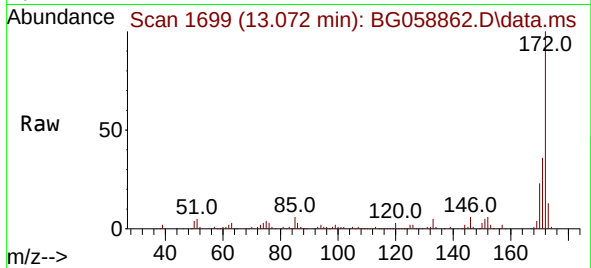




#45
2-Fluorobiphenyl
Concen: 60.447 ng
RT: 13.072 min Scan# 1
Delta R.T. -0.025 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

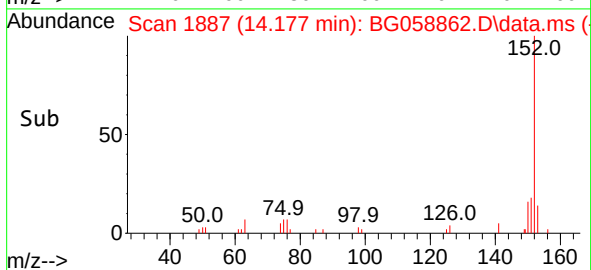
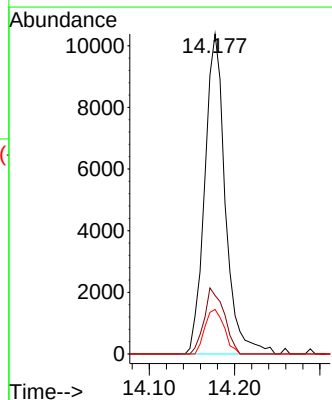
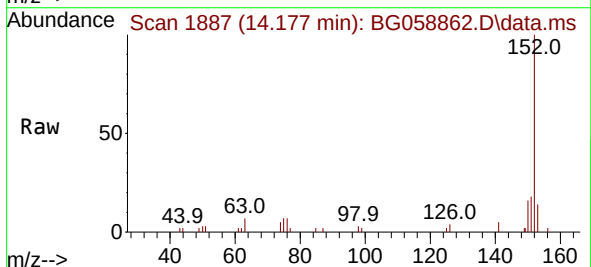
Instrument :
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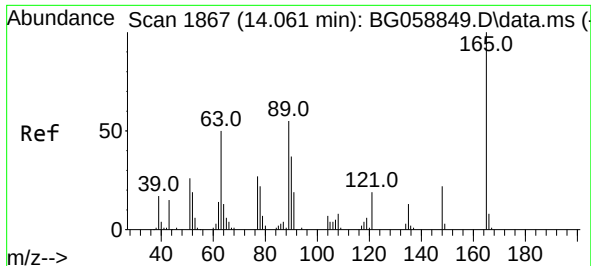
Tgt Ion:172 Resp: 214547
Ion Ratio Lower Upper
172 100
171 36.2 28.1 42.1
170 23.1 18.6 27.8



#49
Acenaphthylene
Concen: 3.792 ng
RT: 14.177 min Scan# 1887
Delta R.T. -0.019 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

Tgt Ion:152 Resp: 17427
Ion Ratio Lower Upper
152 100
151 18.2 16.9 25.3
153 13.9 10.7 16.1





#51

2,6-Dinitrotoluene

Concen: 8.241 ng

RT: 14.453 min Scan# 1934

Delta R.T. 0.393 min

Lab File: BG058862.D

Acq: 25 Aug 2023 23:32

Instrument :

BNA_G

ClientSampleId :

SB-03(27-29)

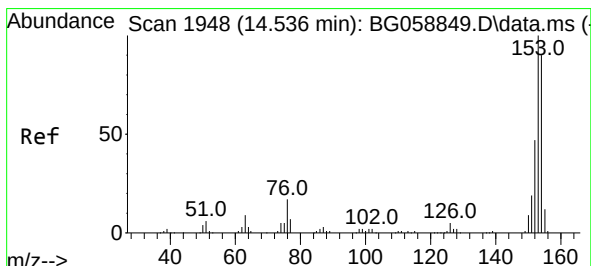
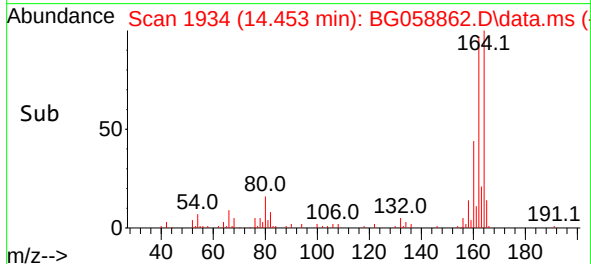
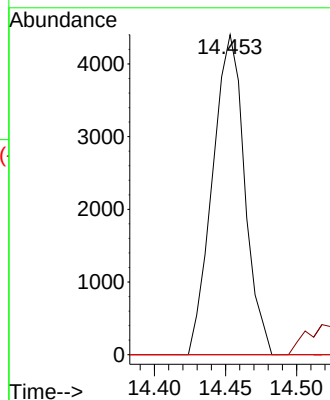
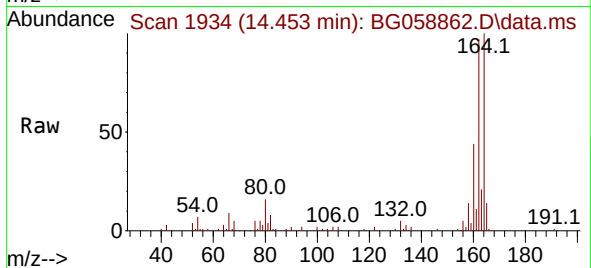
Tgt Ion:165 Resp: 6920

Ion Ratio Lower Upper

165 100

63 0.0 47.2 70.8#

89 0.0 45.0 67.4#



#52

Acenaphthene

Concen: 2.476 ng

RT: 14.512 min Scan# 1944

Delta R.T. -0.025 min

Lab File: BG058862.D

Acq: 25 Aug 2023 23:32

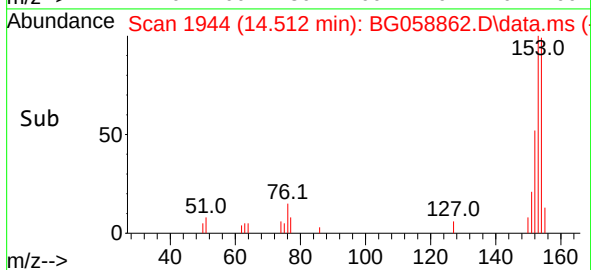
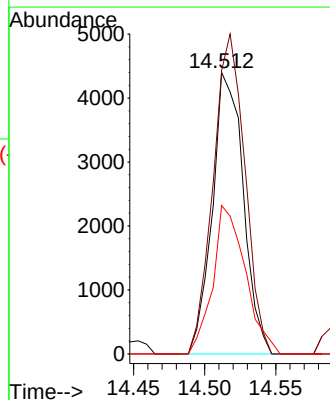
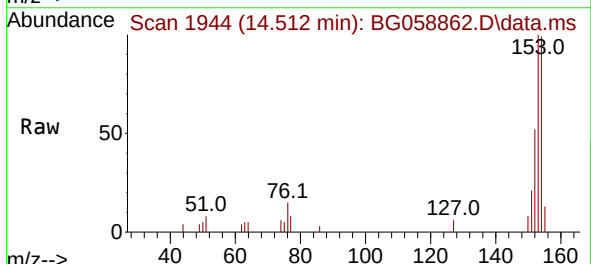
Tgt Ion:154 Resp: 6649

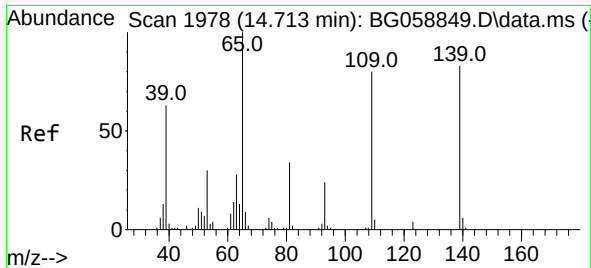
Ion Ratio Lower Upper

154 100

153 100.8 92.7 139.1

152 52.8 44.2 66.2

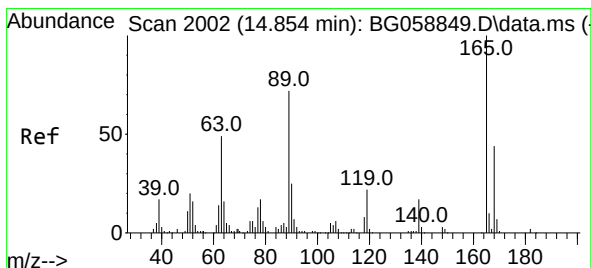
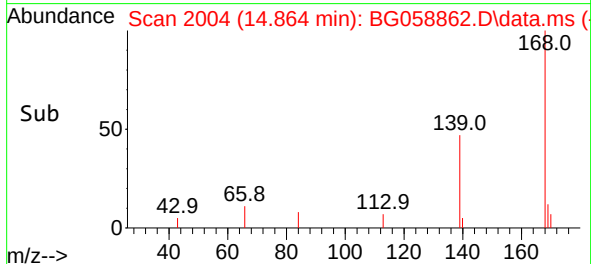
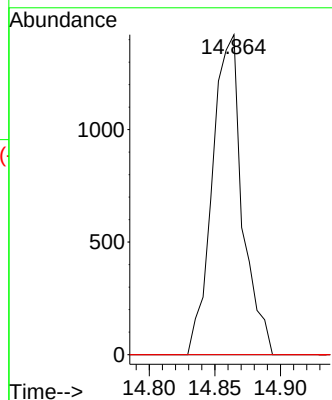
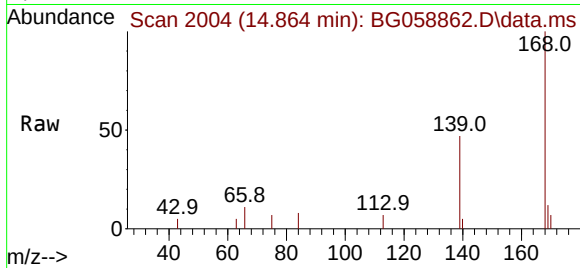




#56
4-Nitrophenol
Concen: 8.110 ng
RT: 14.864 min Scan# 20
Delta R.T. 0.152 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

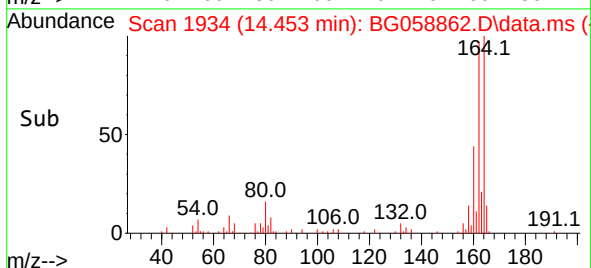
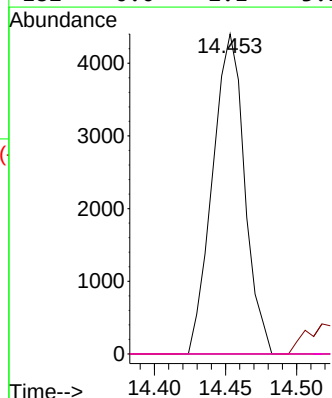
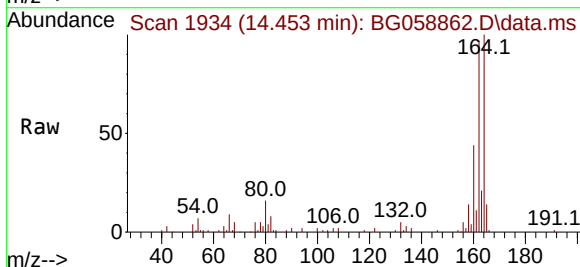
Instrument :
BNA_G
ClientSampleId :
SB-03(27-29)

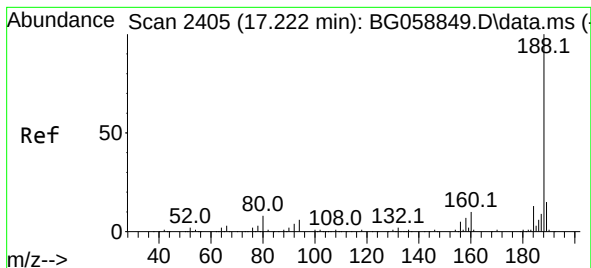
Tgt Ion:139 Resp: 2266
Ion Ratio Lower Upper
139 100
109 0.0 71.9 111.9#
65 0.0 100.7 140.7#



#57
2,4-Dinitrotoluene
Concen: 5.908 ng
RT: 14.453 min Scan# 1934
Delta R.T. -0.401 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

Tgt Ion:165 Resp: 6920
Ion Ratio Lower Upper
165 100
63 0.0 41.8 62.6#
89 0.0 60.7 91.1#
182 0.0 2.1 3.1#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.197 min Scan# 2405

Delta R.T. -0.025 min

Lab File: BG058862.D

Acq: 25 Aug 2023 23:32

Instrument :

BNA_G

ClientSampleId :

SB-03(27-29)

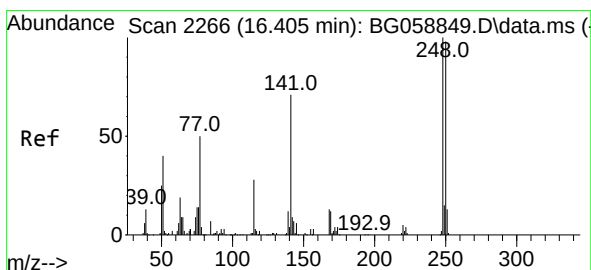
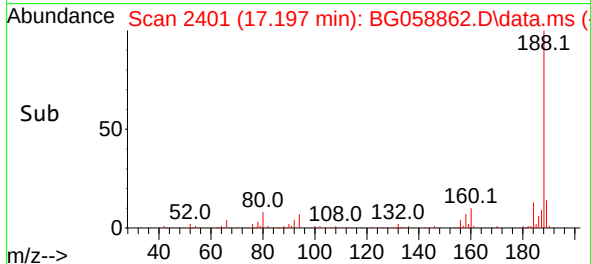
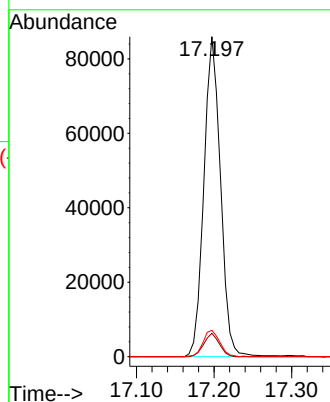
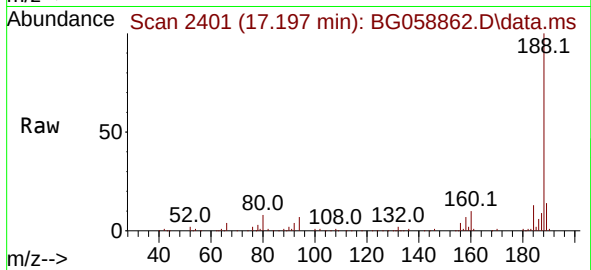
Tgt Ion:188 Resp: 128084

Ion Ratio Lower Upper

188 100

94 7.3 6.1 9.1

80 8.2 6.9 10.3



#67

4-Bromophenyl-phenylether

Concen: 3.560 ng

RT: 15.940 min Scan# 2187

Delta R.T. -0.465 min

Lab File: BG058862.D

Acq: 25 Aug 2023 23:32

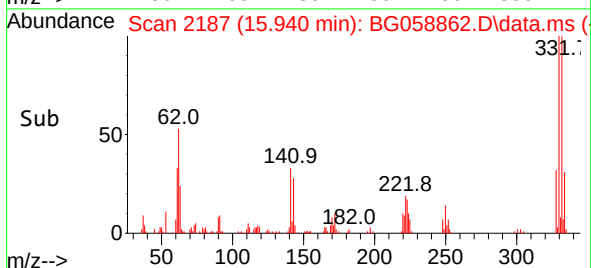
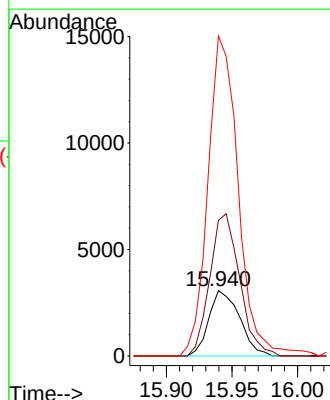
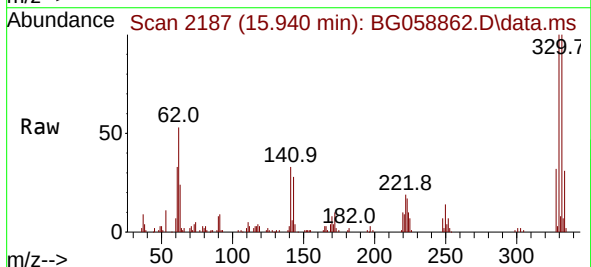
Tgt Ion:248 Resp: 5004

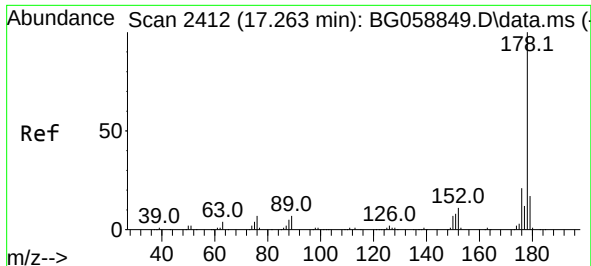
Ion Ratio Lower Upper

248 100

250 162.5 77.7 116.5#

141 383.2 53.6 80.4#

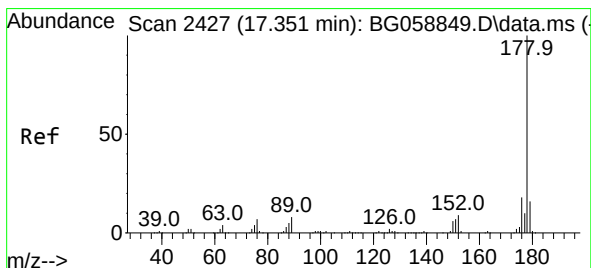
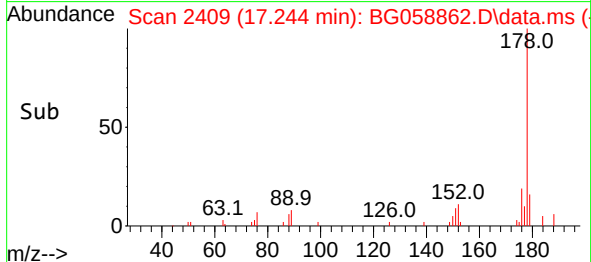
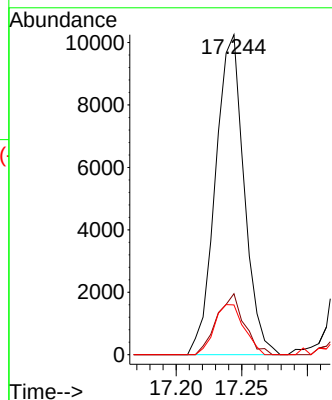
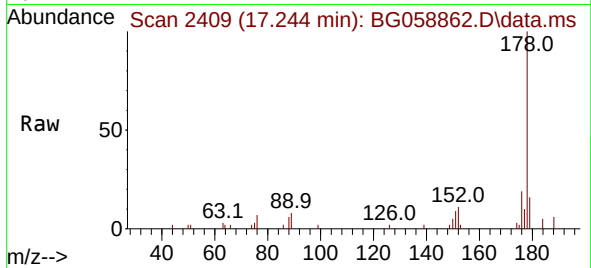




#71
Phenanthrene
Concen: 2.529 ng
RT: 17.244 min Scan# 2412
Delta R.T. -0.019 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

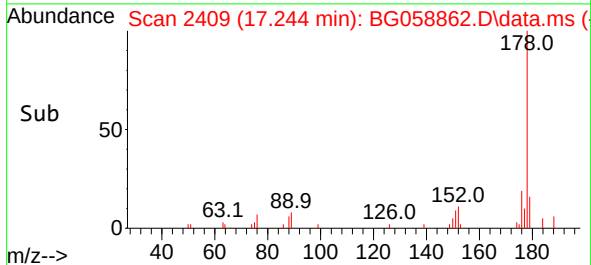
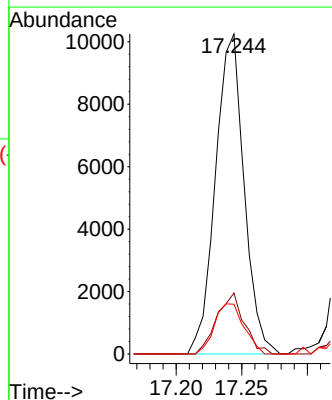
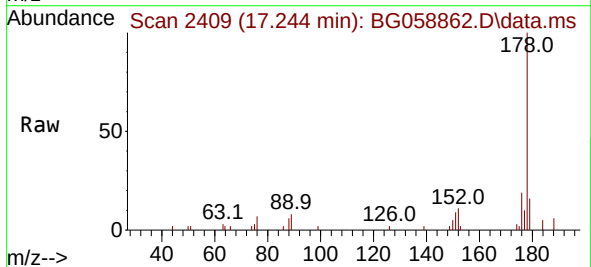
Instrument :
BNA_G
ClientSampleId :
SB-03(27-29)

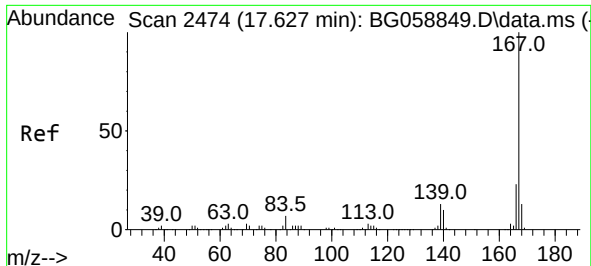
Tgt Ion:178 Resp: 15550
Ion Ratio Lower Upper
178 100
176 19.0 15.5 23.3
179 15.5 13.0 19.4



#72
Anthracene
Concen: 2.521 ng
RT: 17.244 min Scan# 2409
Delta R.T. -0.107 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

Tgt Ion:178 Resp: 15550
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.5 12.9 19.3

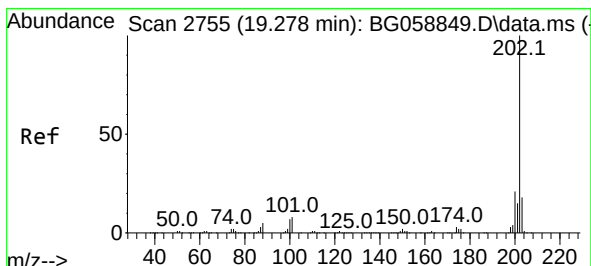
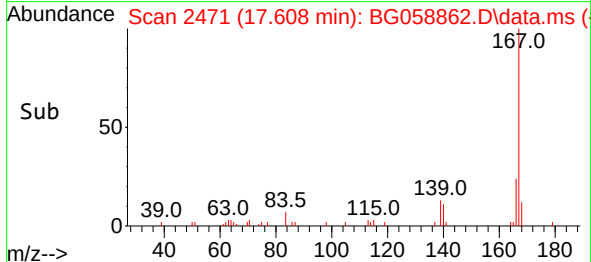
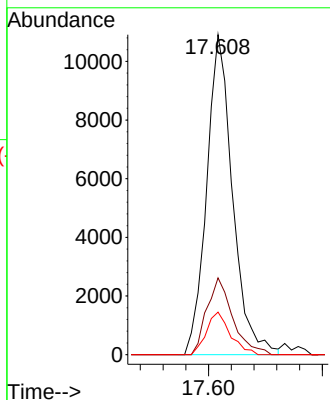
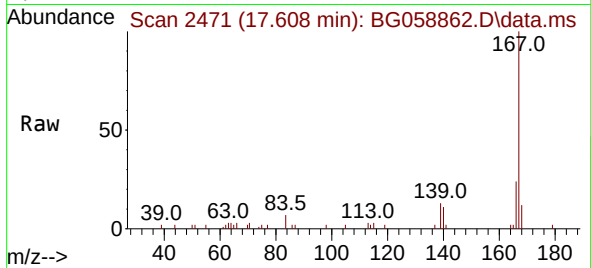




#73
 Carbazole
 Concen: 3.056 ng
 RT: 17.608 min Scan# 2471
 Delta R.T. -0.019 min
 Lab File: BG058862.D
 Acq: 25 Aug 2023 23:32

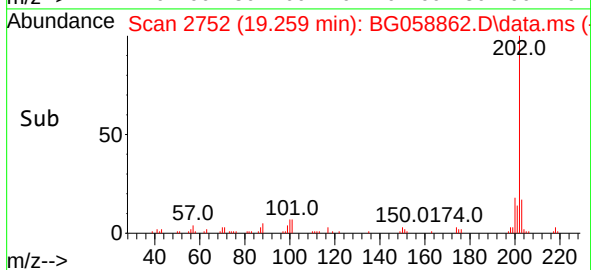
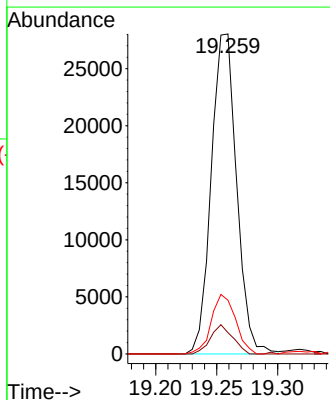
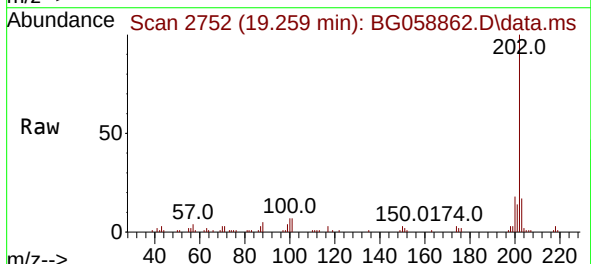
Instrument :
 BNA_G
 ClientSampleId :
 SB-03(27-29)

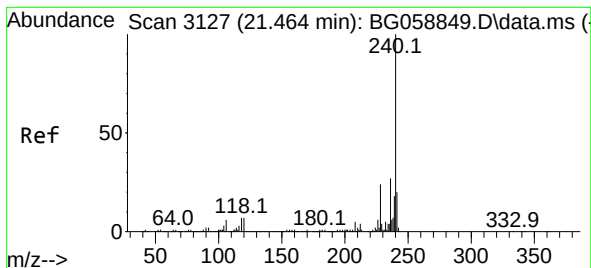
Tgt Ion:167	Resp:	17261
Ion Ratio	Lower	Upper
167	100	
166	24.0	17.4 26.2
139	13.3	9.7 14.5



#75
 Fluoranthene
 Concen: 5.339 ng
 RT: 19.259 min Scan# 2752
 Delta R.T. -0.019 min
 Lab File: BG058862.D
 Acq: 25 Aug 2023 23:32

Tgt Ion:202	Resp:	40713
Ion Ratio	Lower	Upper
202	100	
101	6.7	0.0 29.7
203	16.8	0.0 38.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.439 min Scan# 31

Delta R.T. -0.025 min

Lab File: BG058862.D

Acq: 25 Aug 2023 23:32

Instrument :

BNA_G

ClientSampleId :

SB-03(27-29)

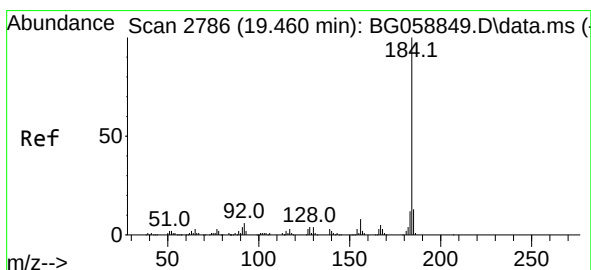
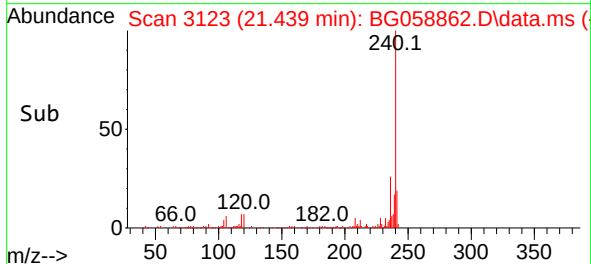
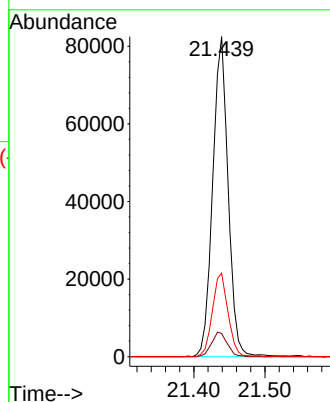
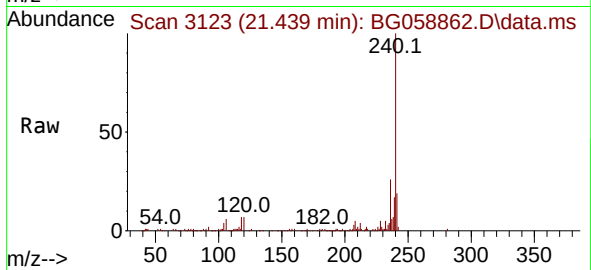
Tgt Ion:240 Resp: 124375

Ion Ratio Lower Upper

240 100

120 7.3 6.2 9.2

236 26.1 20.5 30.7



#77

Benzidine

Concen: 2.563 ng

RT: 19.817 min Scan# 2847

Delta R.T. 0.357 min

Lab File: BG058862.D

Acq: 25 Aug 2023 23:32

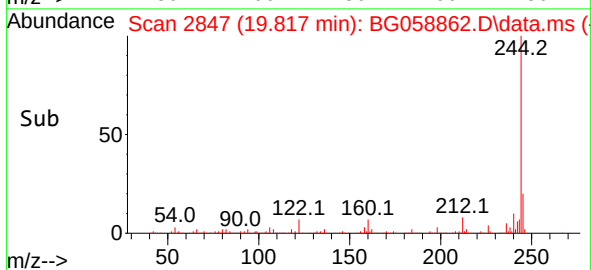
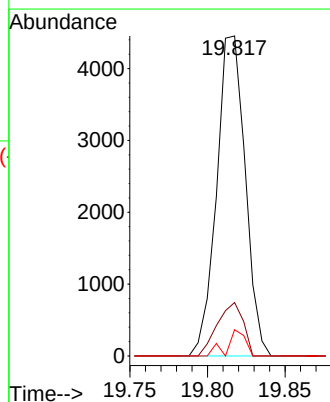
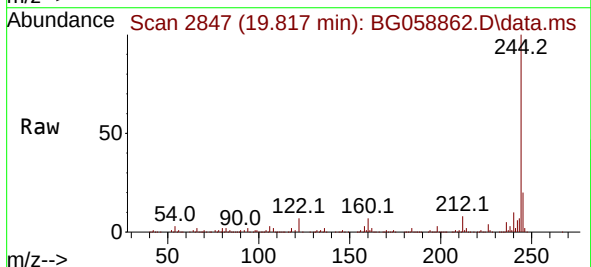
Tgt Ion:184 Resp: 5714

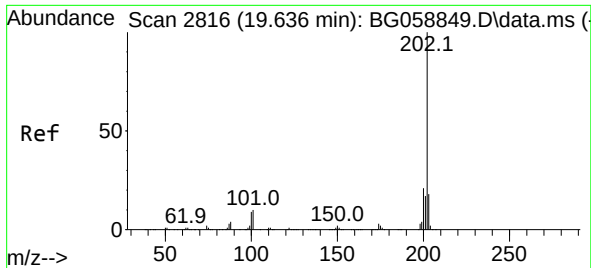
Ion Ratio Lower Upper

184 100

185 16.7 11.9 17.9

183 8.2 10.0 15.0#

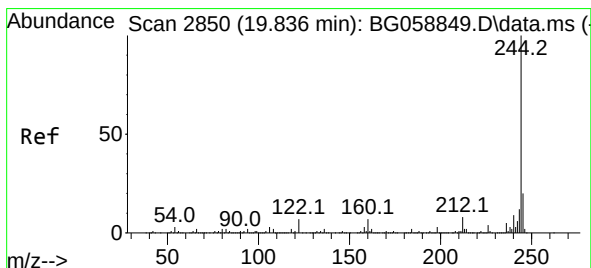
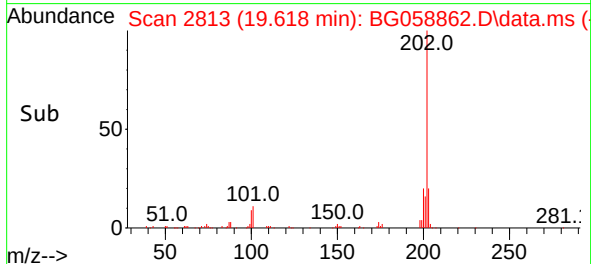
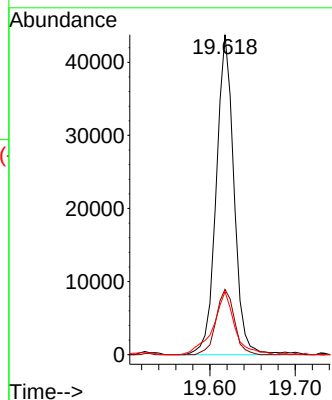
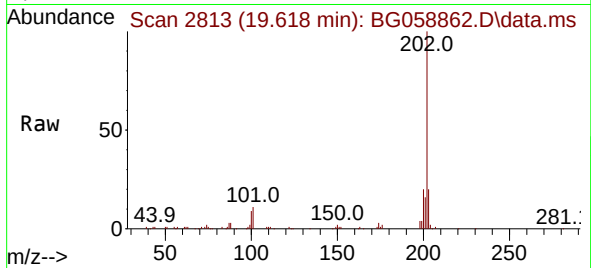




#78
 Pyrene
 Concen: 7.269 ng
 RT: 19.618 min Scan# 2813
 Delta R.T. -0.019 min
 Lab File: BG058862.D
 Acq: 25 Aug 2023 23:32

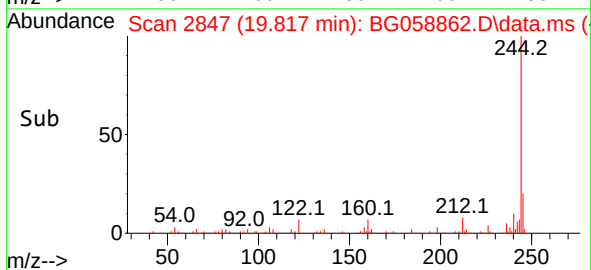
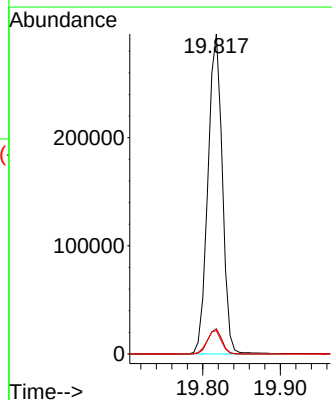
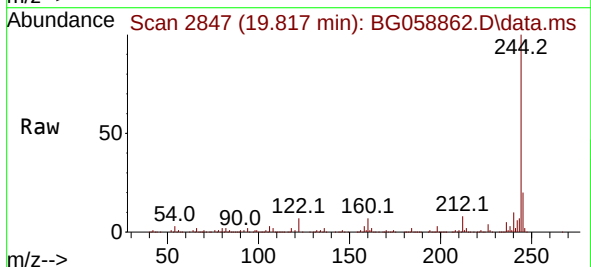
Instrument :
 BNA_G
 ClientSampleId :
 SB-03(27-29)

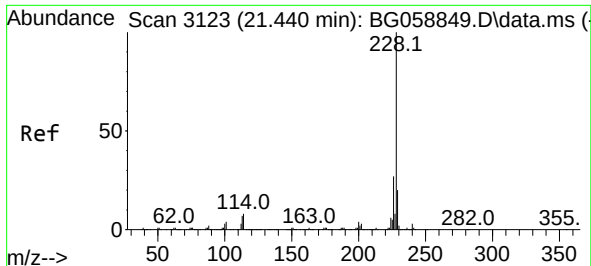
Tgt Ion:202 Resp: 62993
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.7 25.1
 203 19.7 15.3 22.9



#79
 Terphenyl-d14
 Concen: 54.985 ng
 RT: 19.817 min Scan# 2847
 Delta R.T. -0.019 min
 Lab File: BG058862.D
 Acq: 25 Aug 2023 23:32

Tgt Ion:244 Resp: 380865
 Ion Ratio Lower Upper
 244 100
 212 7.8 6.2 9.2
 122 7.3 6.3 9.5

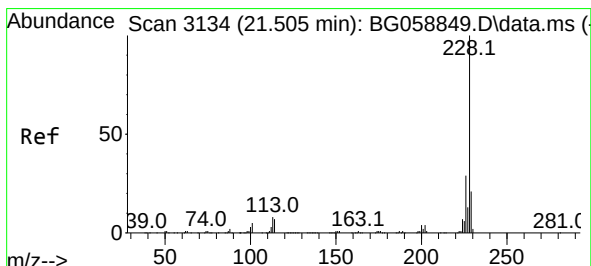
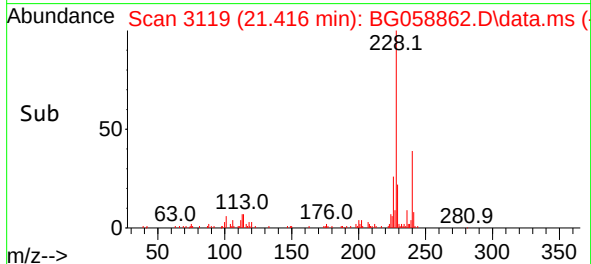
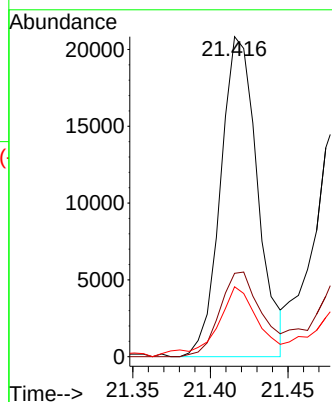
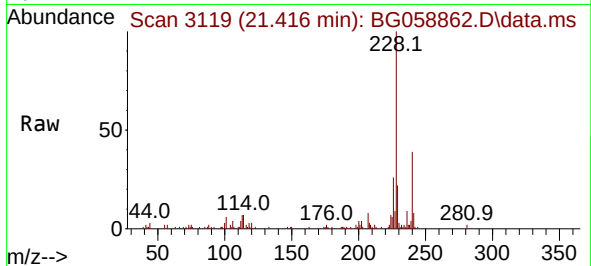




#81
Benzo(a)anthracene
Concen: 3.992 ng
RT: 21.416 min Scan# 3119
Delta R.T. -0.025 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

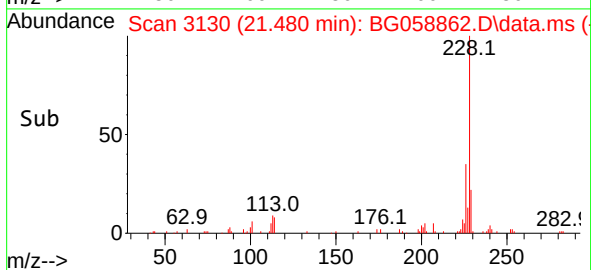
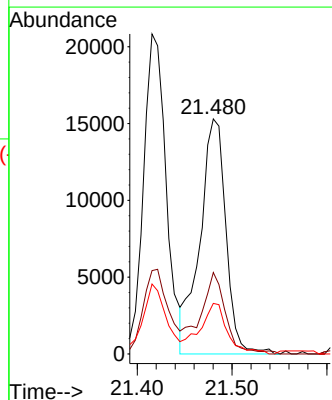
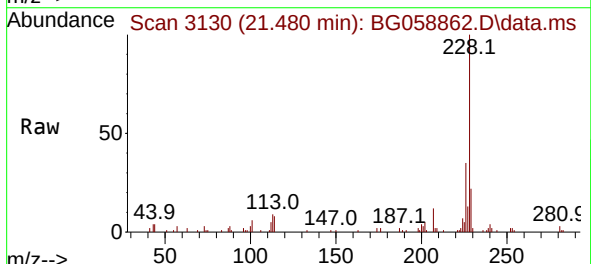
Instrument :
BNA_G
ClientSampleId :
SB-03(27-29)

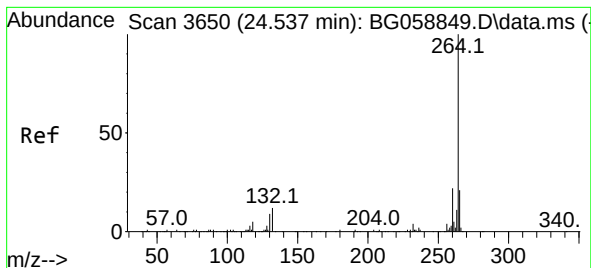
Tgt Ion:228 Resp: 34562
Ion Ratio Lower Upper
228 100
226 26.0 22.6 33.8
229 21.9 16.8 25.2



#83
Chrysene
Concen: 3.507 ng
RT: 21.480 min Scan# 3130
Delta R.T. -0.025 min
Lab File: BG058862.D
Acq: 25 Aug 2023 23:32

Tgt Ion:228 Resp: 29268
Ion Ratio Lower Upper
228 100
226 34.7 24.4 36.6
229 21.5 16.3 24.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.500 min Scan# 3

Delta R.T. -0.036 min

Lab File: BG058862.D

Acq: 25 Aug 2023 23:32

Instrument :

BNA_G

ClientSampleId :

SB-03(27-29)

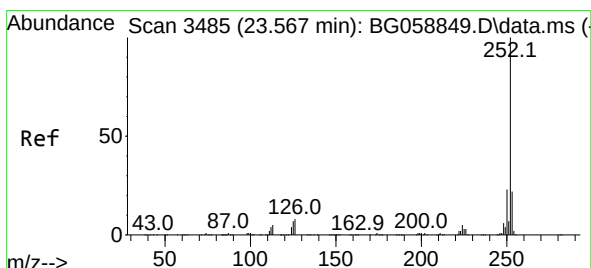
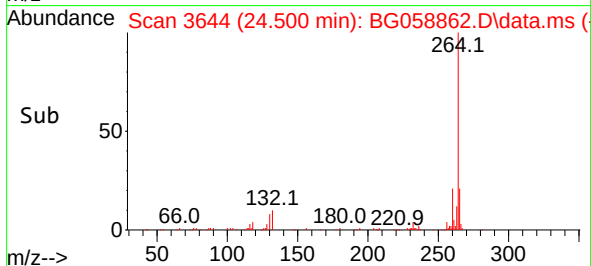
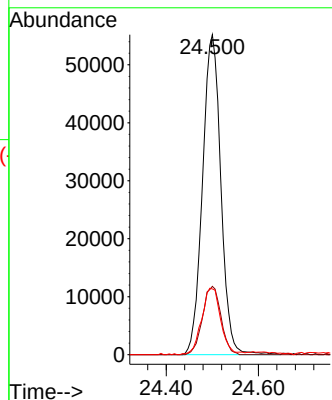
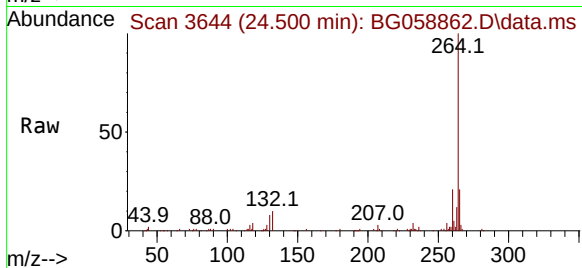
Tgt Ion:264 Resp: 152948

Ion Ratio Lower Upper

264 100

260 21.4 18.2 27.2

265 20.5 16.4 24.6



#88

Benzo(b)fluoranthene

Concen: 4.518 ng

RT: 23.537 min Scan# 3480

Delta R.T. -0.030 min

Lab File: BG058862.D

Acq: 25 Aug 2023 23:32

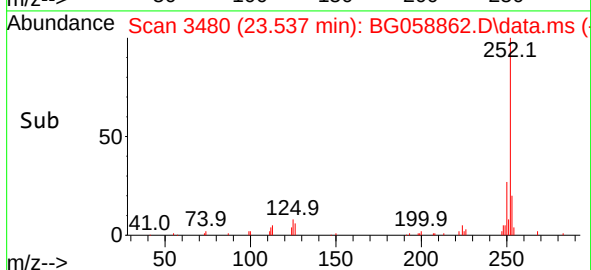
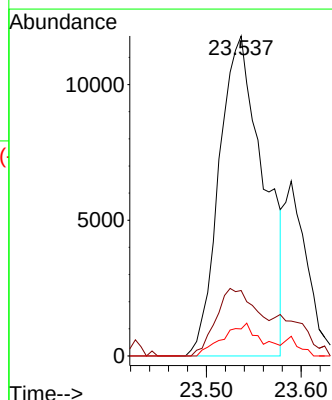
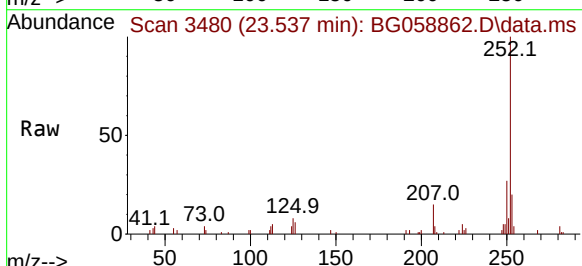
Tgt Ion:252 Resp: 38339

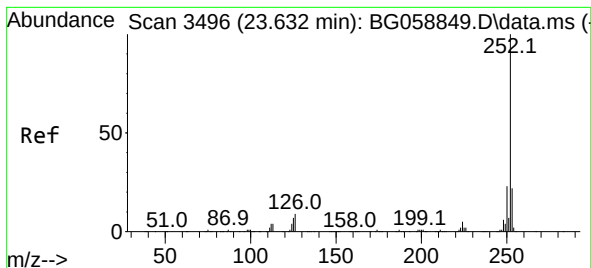
Ion Ratio Lower Upper

252 100

253 20.4 18.4 27.6

125 8.4 6.2 9.2





#89

Benzo(k)fluoranthene

Concen: 4.381 ng

RT: 23.537 min Scan# 34

Delta R.T. -0.095 min

Lab File: BG058862.D

Acq: 25 Aug 2023 23:32

Instrument :

BNA_G

ClientSampleId :

SB-03(27-29)

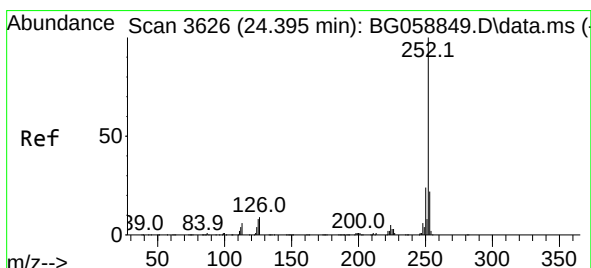
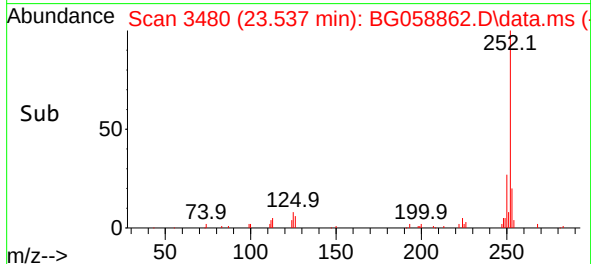
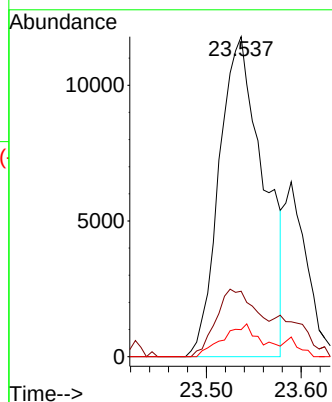
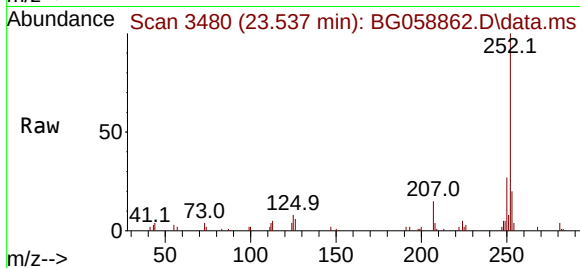
Tgt Ion:252 Resp: 38339

Ion Ratio Lower Upper

252 100

253 20.4 17.6 26.4

125 8.4 6.3 9.5



#90

Benzo(a)pyrene

Concen: 2.615 ng

RT: 24.206 min Scan# 3594

Delta R.T. -0.189 min

Lab File: BG058862.D

Acq: 25 Aug 2023 23:32

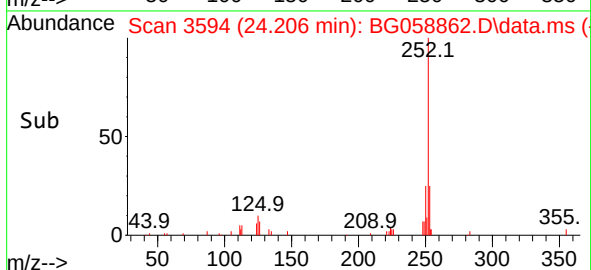
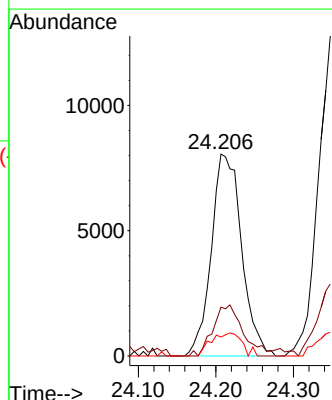
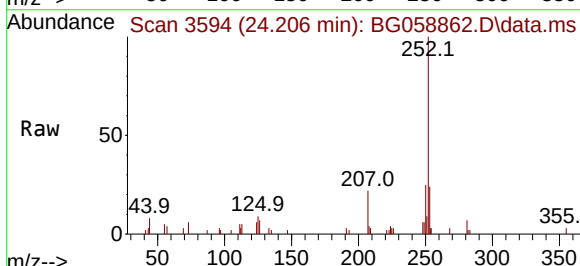
Tgt Ion:252 Resp: 21852

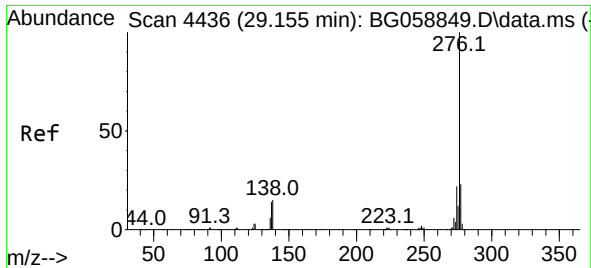
Ion Ratio Lower Upper

252 100

253 24.2 17.5 26.3

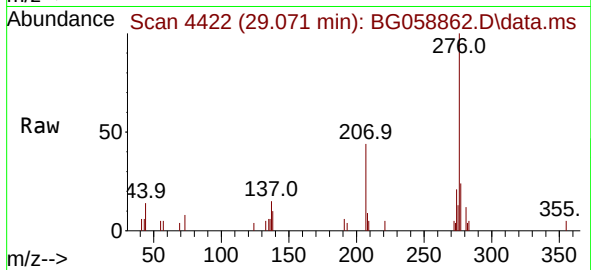
125 9.4 6.8 10.2





#92
 Benzo(g,h,i)perylene
 Concen: 2.454 ng
 RT: 29.071 min Scan# 44
 Delta R.T. -0.083 min
 Lab File: BG058862.D
 Acq: 25 Aug 2023 23:32

Instrument :
 BNA_G
 ClientSampleId :
 SB-03(27-29)



Tgt Ion:	276	Resp:	20860
Ion Ratio	Lower	Upper	
276	100		
277	23.8	17.8	26.6
138	9.8	11.1	16.7#

