

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG022023\
 Data File : BG056675.D
 Acq On : 20 Feb 2023 16:02
 Operator : CG/JU
 Sample : 01552-06DL 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-03-4.0-6.0DL

Quant Time: Feb 20 16:44:55 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG021523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 16 01:33:33 2023
 Response via : Initial Calibration

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

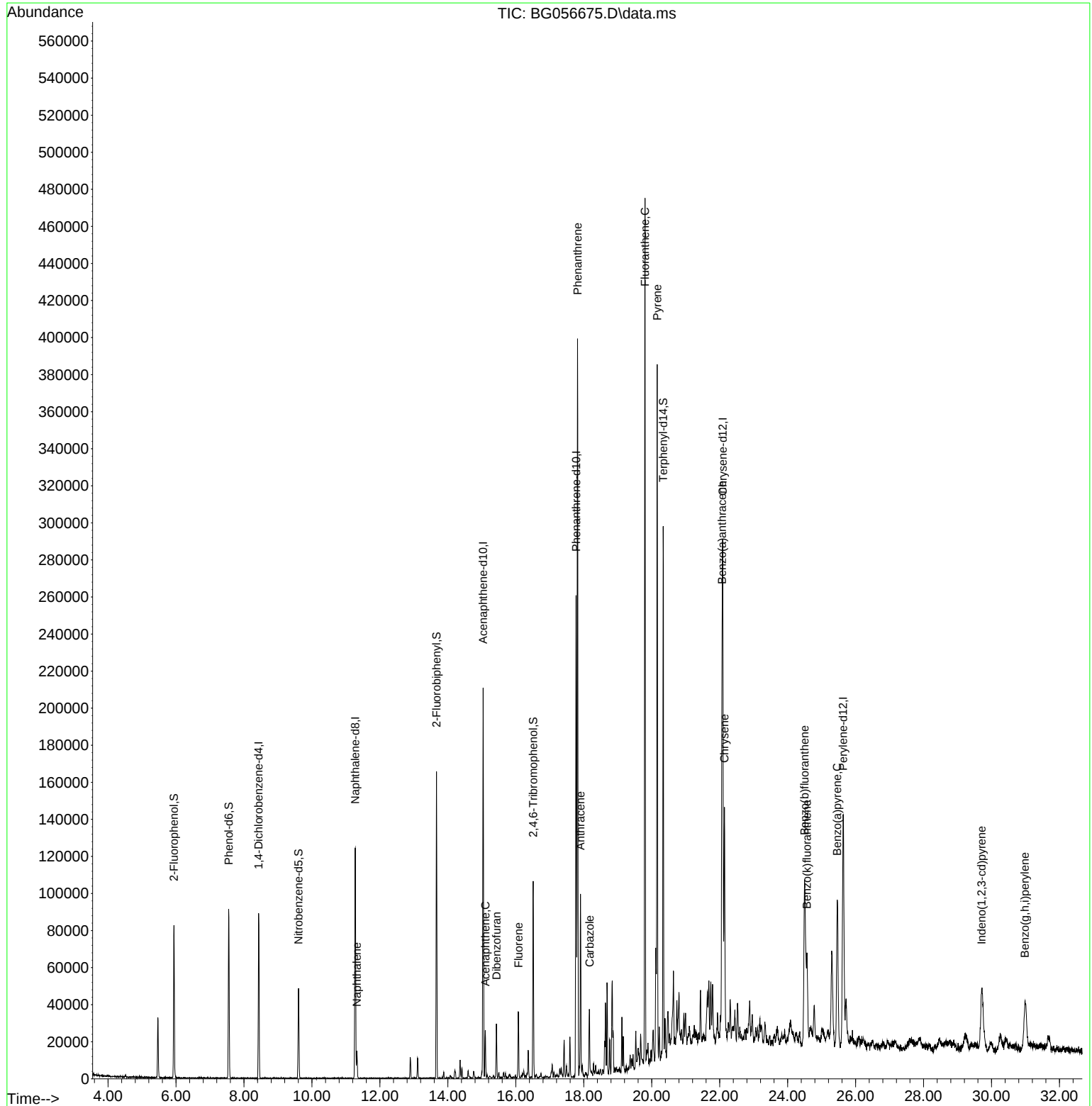
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.433	152	24333	20.000	ng	0.00
21) Naphthalene-d8	11.276	136	102470	20.000	ng	0.00
39) Acenaphthene-d10	15.037	164	73779	20.000	ng	0.00
64) Phenanthrene-d10	17.775	188	166560	20.000	ng	# 0.00
76) Chrysene-d12	22.087	240	143062	20.000	ng	-0.01
86) Perylene-d12	25.630	264	156399	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.941	112	35287	23.595	ng	0.00
7) Phenol-d6	7.551	99	52677	23.845	ng	0.00
23) Nitrobenzene-d5	9.608	82	30603	15.291	ng	0.00
42) 2,4,6-Tribromophenol	16.511	330	20606	20.399	ng	0.00
45) 2-Fluorobiphenyl	13.668	172	84400	15.318	ng	0.00
79) Terphenyl-d14	20.336	244	137821	15.762	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	11.323	128	12280	2.162	ng	98
52) Acenaphthene	15.101	154	9078	2.048	ng	96
55) Dibenzofuran	15.430	168	18631	2.488	ng	99
58) Fluorene	16.077	166	17261	2.915	ng	91
71) Phenanthrene	17.816	178	262364	28.953	ng	99
72) Anthracene	17.904	178	64131	6.916	ng	97
73) Carbazole	18.168	167	23663	2.960	ng	96
75) Fluoranthene	19.802	202	311081	26.017	ng	100
78) Pyrene	20.160	202	249393	23.083	ng	99
81) Benzo(a)anthracene	22.070	228	121410	11.412	ng	96
83) Chrysene	22.140	228	99873	10.042	ng	98
87) Indeno(1,2,3-cd)pyrene	29.708	276	70043	5.718	ng	# 99
88) Benzo(b)fluoranthene	24.496	252	130950	12.816	ng	97
89) Benzo(k)fluoranthene	24.567	252	44861m	4.465	ng	
90) Benzo(a)pyrene	25.460	252	100918	10.275	ng	98
92) Benzo(g,h,i)perylene	30.983	276	66496	6.708	ng	98

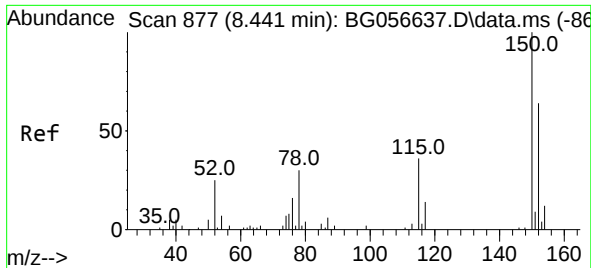
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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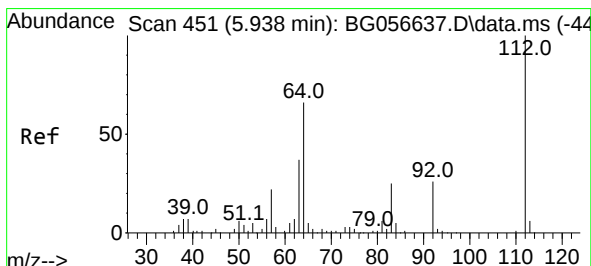
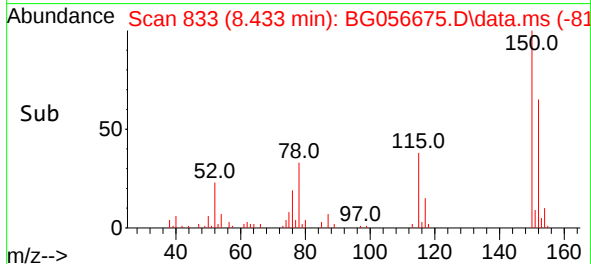
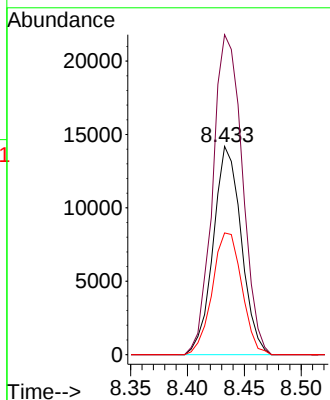
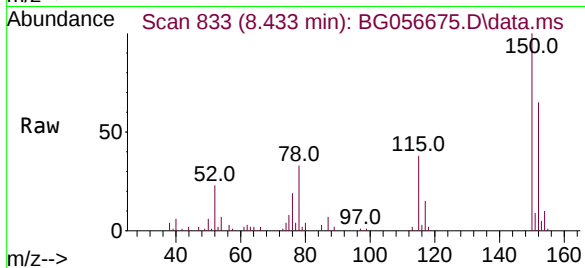




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.433 min Scan# 81
Delta R.T. -0.008 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

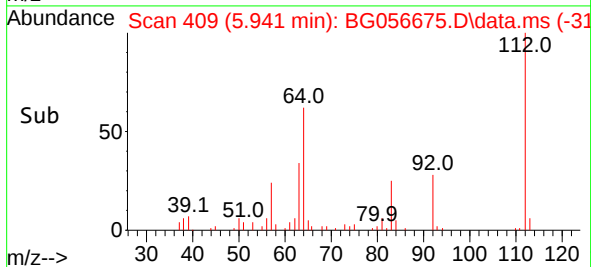
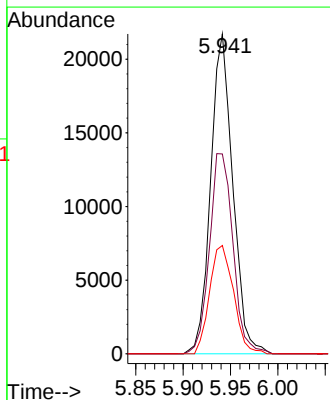
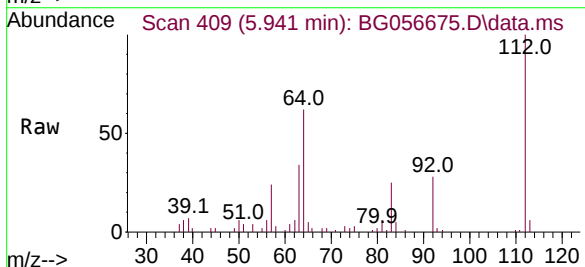
Instrument :
BNA_G
ClientSampleId :
SB-03-4.0-6.0DL

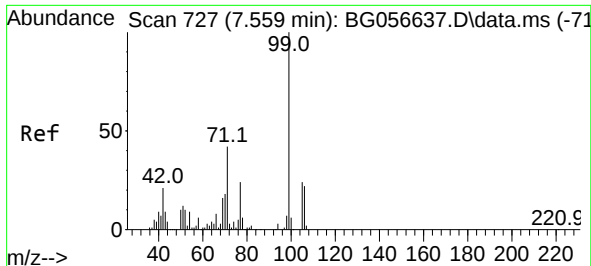
Tgt Ion:152 Resp: 24333
Ion Ratio Lower Upper
152 100
150 153.7 124.8 187.2
115 58.5 44.7 67.1



#5
2-Fluorophenol
Concen: 23.595 ng
RT: 5.941 min Scan# 409
Delta R.T. 0.004 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

Tgt Ion:112 Resp: 35287
Ion Ratio Lower Upper
112 100
64 62.5 52.6 78.8
63 33.9 29.8 44.6

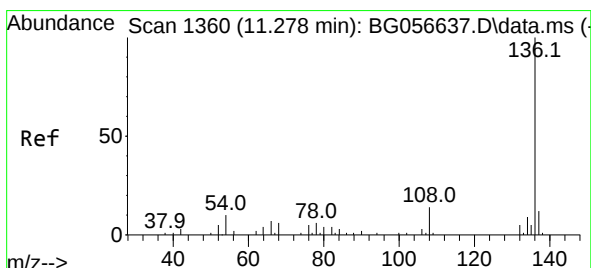
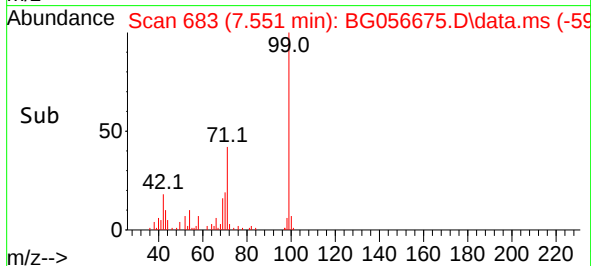
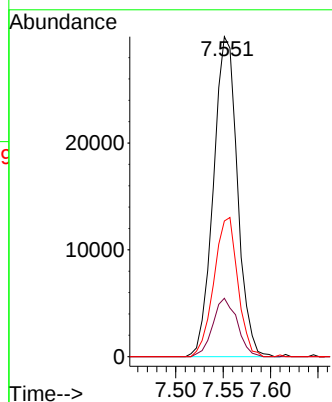
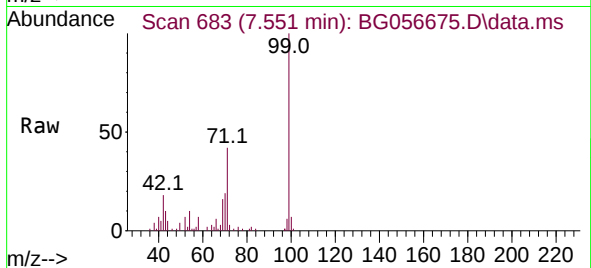




#7
Phenol-d6
Concen: 23.845 ng
RT: 7.551 min Scan# 61
Delta R.T. -0.008 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

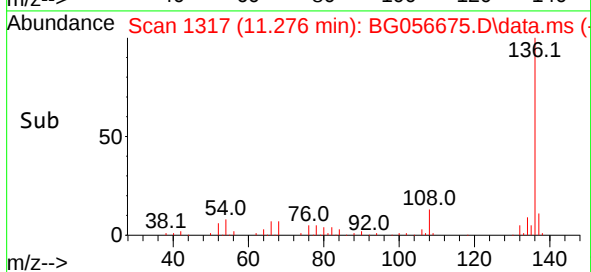
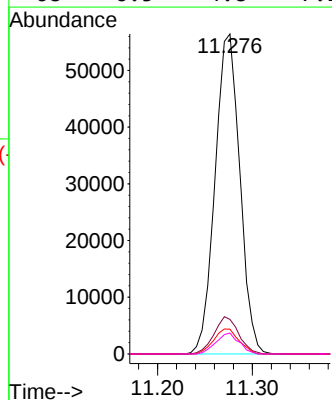
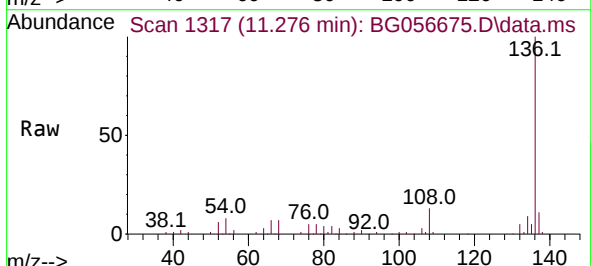
Instrument :
BNA_G
ClientSampleId :
SB-03-4.0-6.0DL

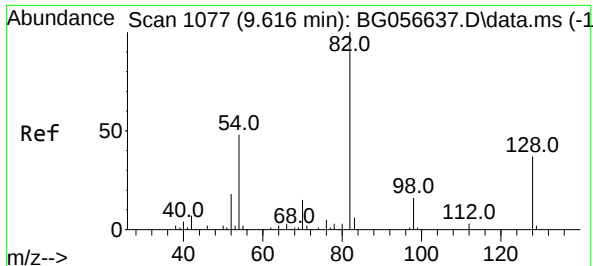
Tgt Ion: 99	Resp: 52677
Ion Ratio	Lower Upper
99 100	
42 18.2	16.8 25.2
71 42.4	33.9 50.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.276 min Scan# 1317
Delta R.T. -0.002 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

Tgt	Ion:136	Resp:	102470
Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.7	14.5
54	7.7	7.7	11.5
68	6.5	4.8	7.2





#23

Nitrobenzene-d5

Concen: 15.291 ng

RT: 9.608 min Scan# 1077

Delta R.T. -0.008 min

Lab File: BG056675.D

Acq: 20 Feb 2023 16:02

Instrument :

BNA_G

ClientSampleId :

SB-03-4.0-6.0DL

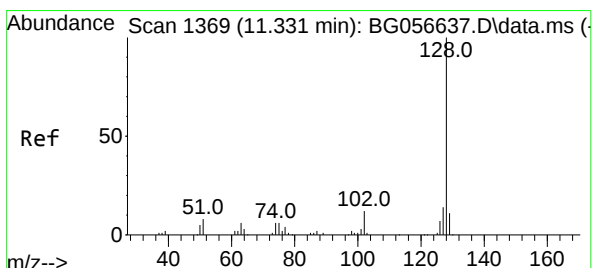
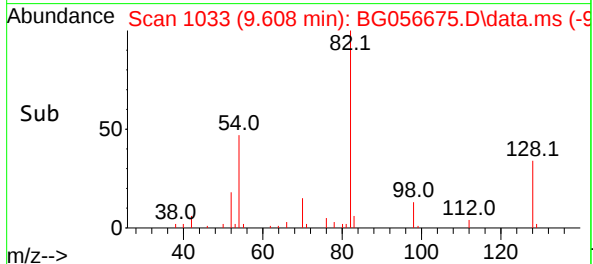
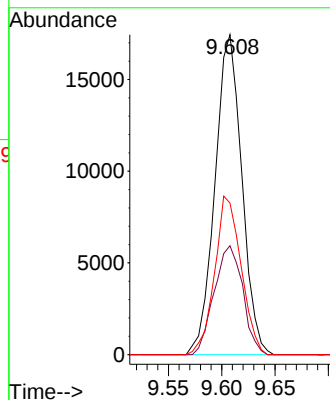
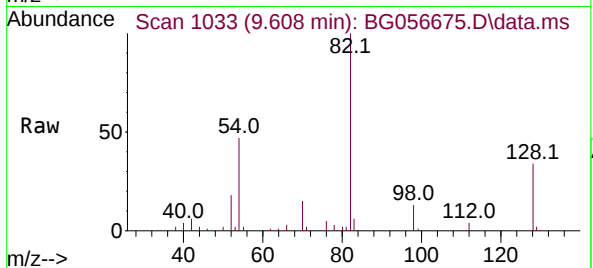
Tgt Ion: 82 Resp: 30603

Ion Ratio Lower Upper

82 100

128 34.0 29.4 44.2

54 47.4 37.8 56.6



#31

Naphthalene

Concen: 2.162 ng

RT: 11.323 min Scan# 1325

Delta R.T. -0.008 min

Lab File: BG056675.D

Acq: 20 Feb 2023 16:02

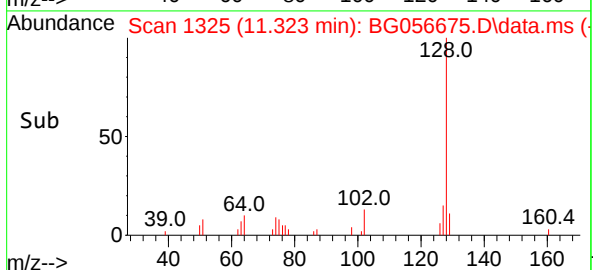
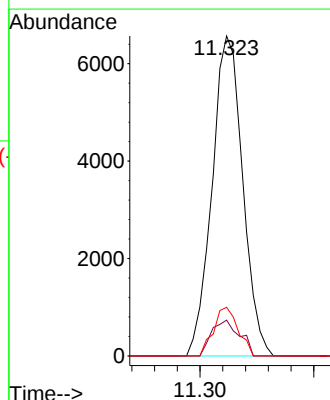
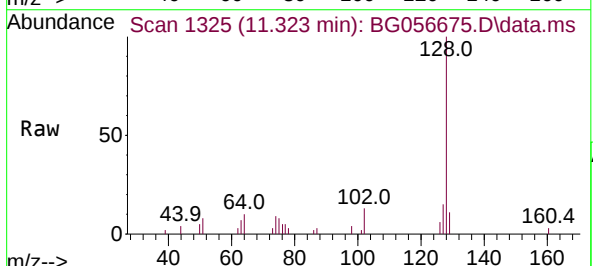
Tgt Ion:128 Resp: 12280

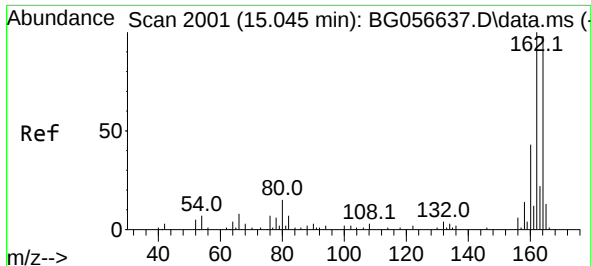
Ion Ratio Lower Upper

128 100

129 11.2 8.7 13.1

127 15.2 10.9 16.3

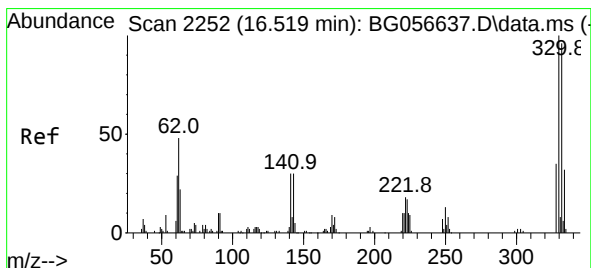
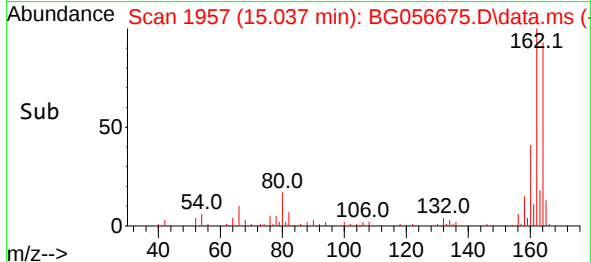
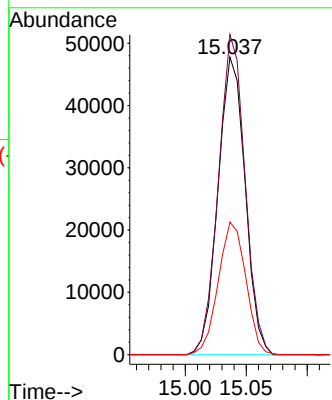
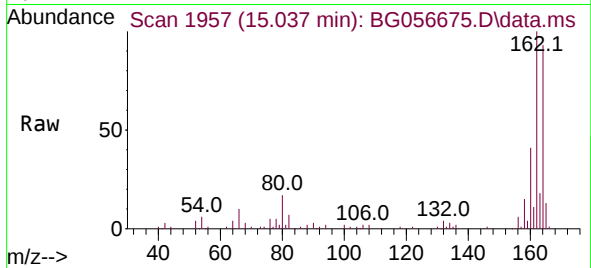




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 15.037 min Scan# 1957
Delta R.T. -0.008 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

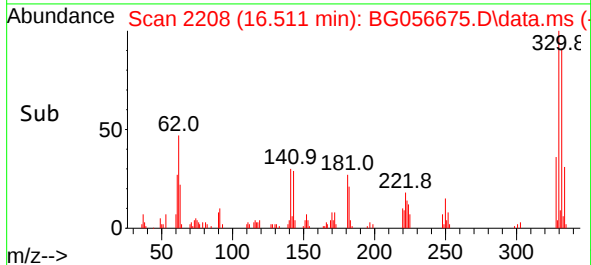
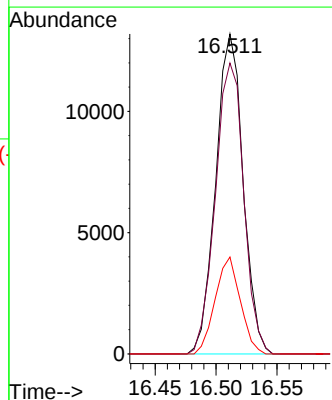
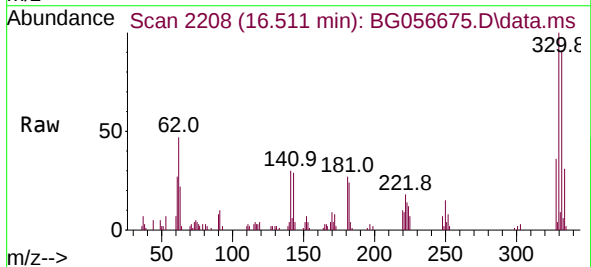
Instrument :
BNA_G
ClientSampleId :
SB-03-4.0-6.0DL

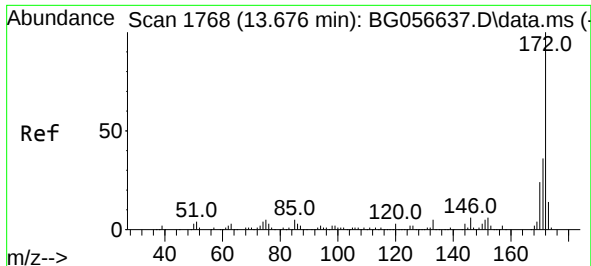
Tgt Ion:164 Resp: 73779
Ion Ratio Lower Upper
164 100
162 107.6 81.3 121.9
160 44.5 35.2 52.8



#42
2,4,6-Tribromophenol
Concen: 20.399 ng
RT: 16.511 min Scan# 2208
Delta R.T. -0.008 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

Tgt Ion:330 Resp: 20606
Ion Ratio Lower Upper
330 100
332 94.1 75.7 113.5
141 27.8 24.6 37.0

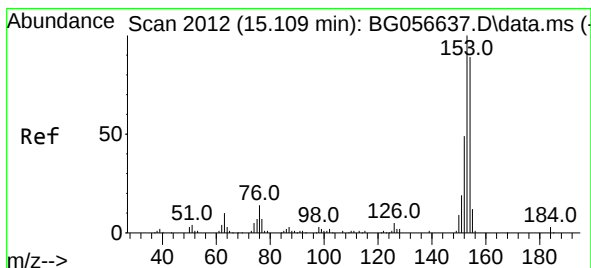
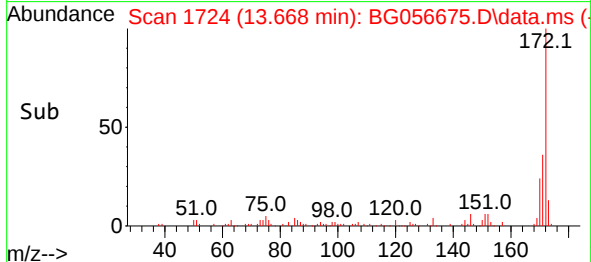
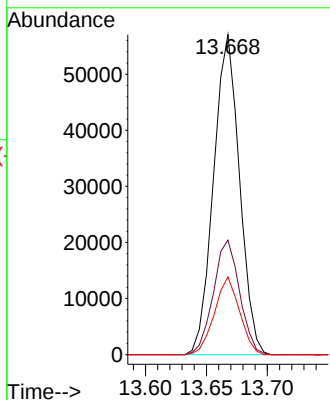
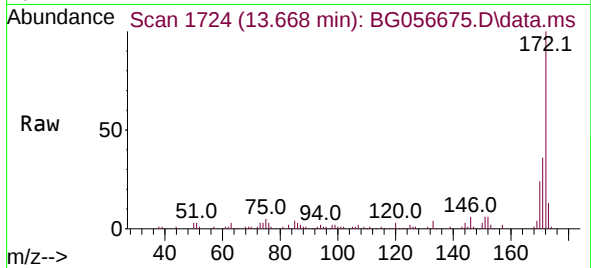




#45
2-Fluorobiphenyl
Concen: 15.318 ng
RT: 13.668 min Scan# 1768
Delta R.T. -0.008 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

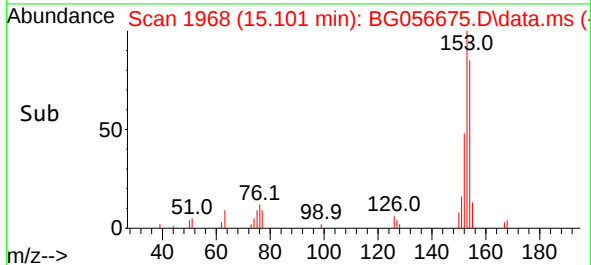
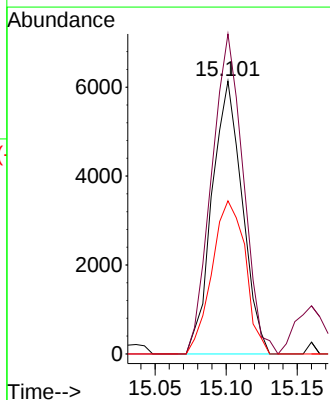
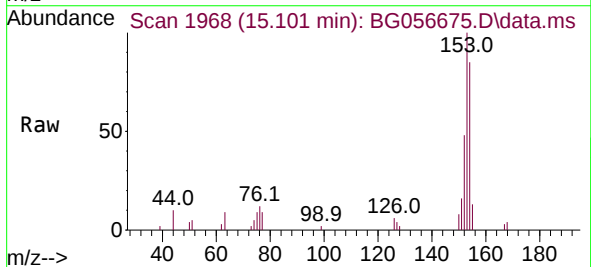
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BNA_G
ClientSampleId :
SB-03-4.0-6.0DL

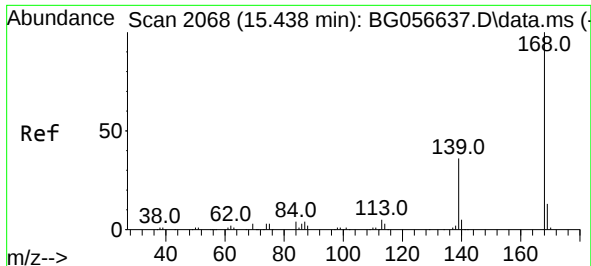
Tgt Ion:172	Resp:	84400
Ion Ratio	Lower	Upper
172	100	
171	35.8	28.6 43.0
170	24.3	19.4 29.0



#52
Acenaphthene
Concen: 2.048 ng
RT: 15.101 min Scan# 1968
Delta R.T. -0.008 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

Tgt Ion:154	Resp:	9078
Ion Ratio	Lower	Upper
154	100	
153	117.3	89.5 134.3
152	56.1	43.7 65.5

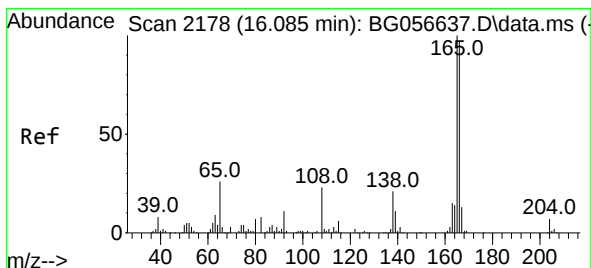
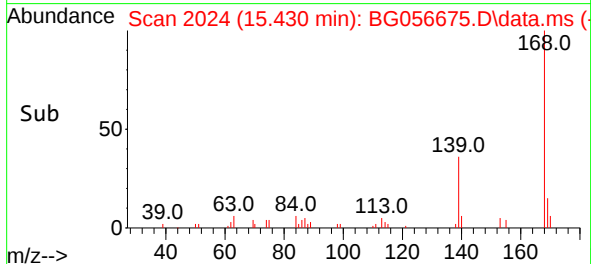
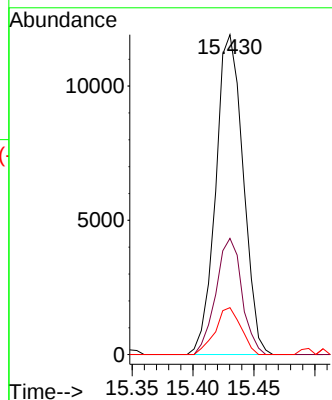
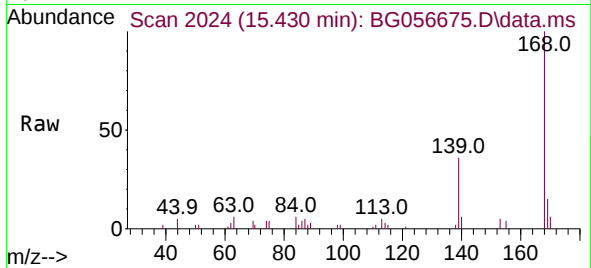




#55
Dibenzenofuran
Concen: 2.488 ng
RT: 15.430 min Scan# 2068
Delta R.T. -0.008 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

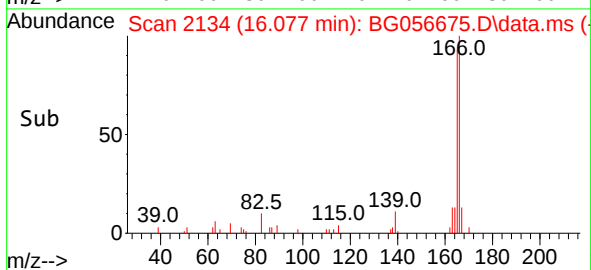
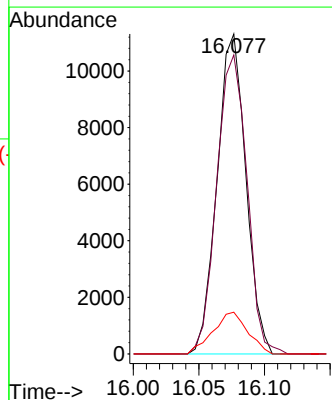
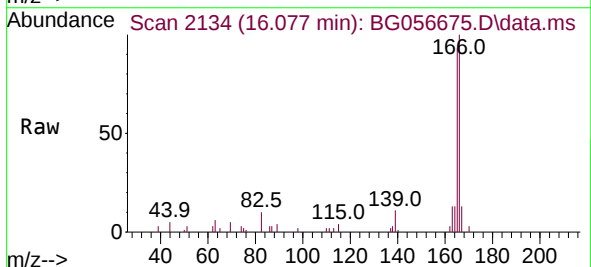
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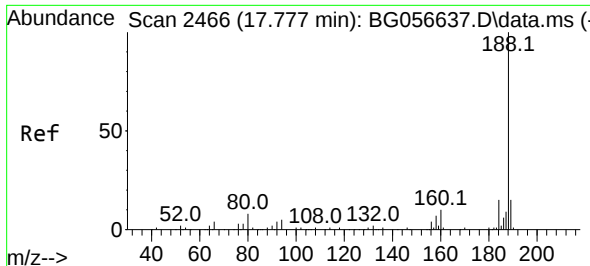
Tgt Ion:168 Resp: 18631
Ion Ratio Lower Upper
168 100
139 36.3 29.0 43.6
169 14.7 10.7 16.1



#58
Fluorene
Concen: 2.915 ng
RT: 16.077 min Scan# 2134
Delta R.T. -0.008 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

Tgt Ion:166 Resp: 17261
Ion Ratio Lower Upper
166 100
165 93.5 82.9 124.3
167 13.0 11.1 16.7

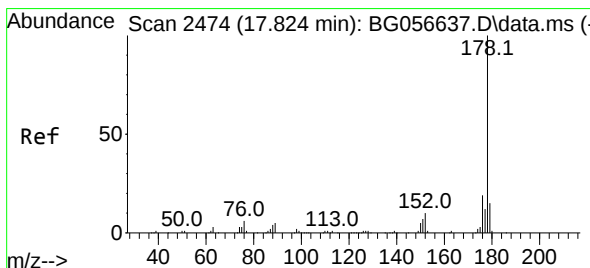
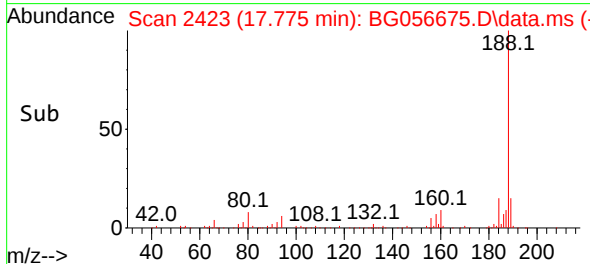
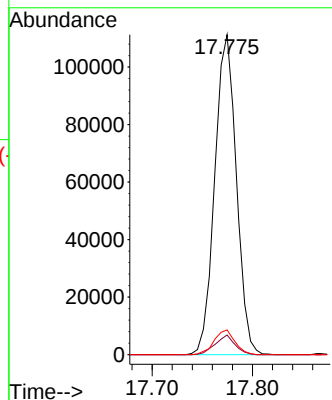
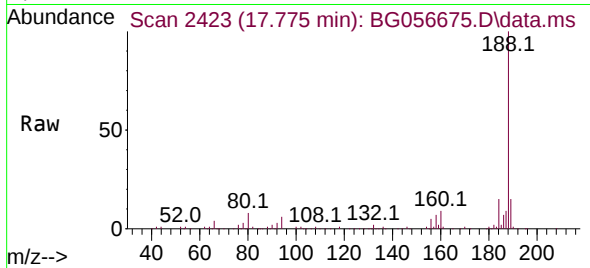




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.775 min Scan# 24
Delta R.T. -0.002 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

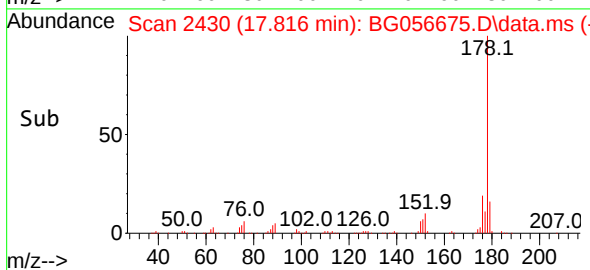
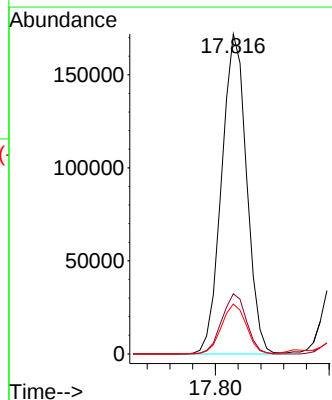
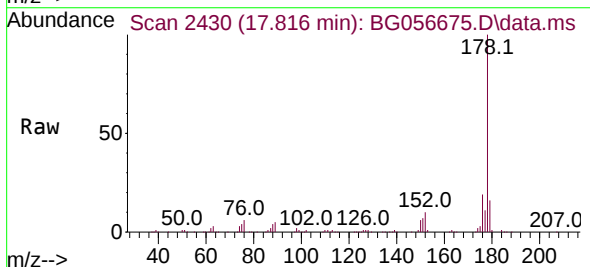
Instrument :
BNA_G
ClientSampleId :
SB-03-4.0-6.0DL

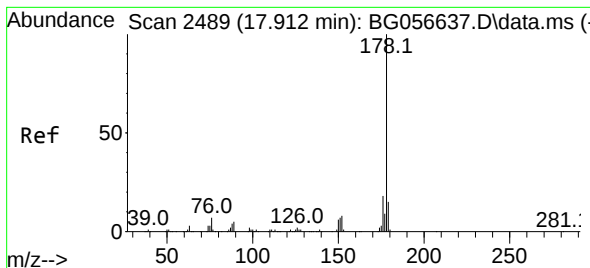
Tgt Ion:188 Resp: 166560
Ion Ratio Lower Upper
188 100
94 6.1 4.0 6.0#
80 7.7 6.3 9.5



#71
Phenanthrene
Concen: 28.953 ng
RT: 17.816 min Scan# 2430
Delta R.T. -0.008 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

Tgt Ion:178 Resp: 262364
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.6 12.2 18.4





#72

Anthracene

Concen: 6.916 ng

RT: 17.904 min Scan# 24

Delta R.T. -0.008 min

Lab File: BG056675.D

Acq: 20 Feb 2023 16:02

Instrument :

BNA_G

ClientSampleId :

SB-03-4.0-6.0DL

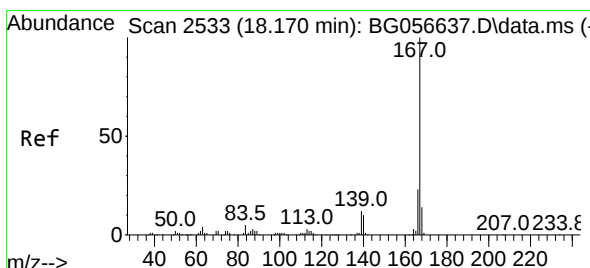
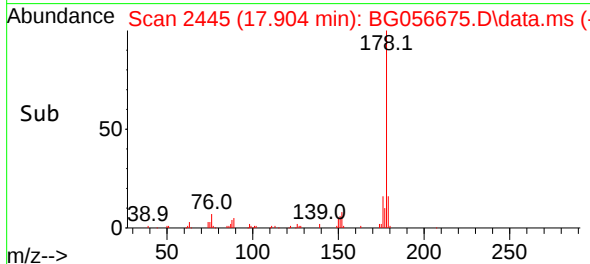
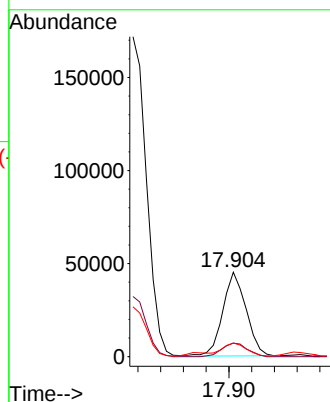
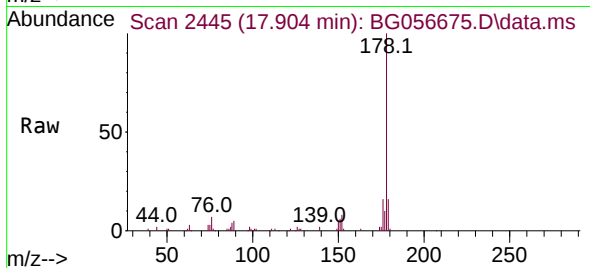
Tgt Ion:178 Resp: 64131

Ion Ratio Lower Upper

178 100

176 16.1 14.3 21.5

179 16.1 12.2 18.4



#73

Carbazole

Concen: 2.960 ng

RT: 18.168 min Scan# 2490

Delta R.T. -0.002 min

Lab File: BG056675.D

Acq: 20 Feb 2023 16:02

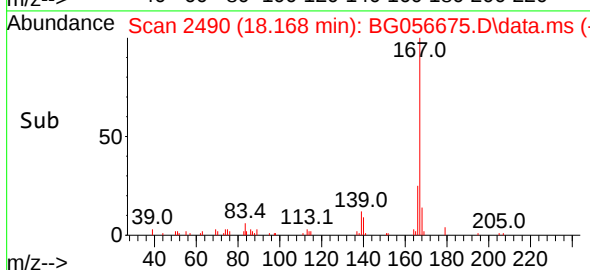
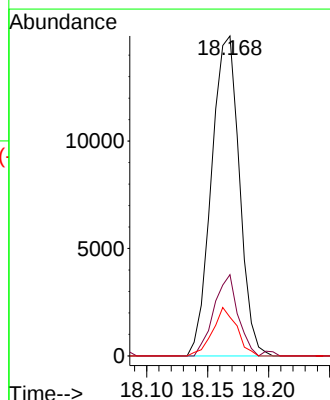
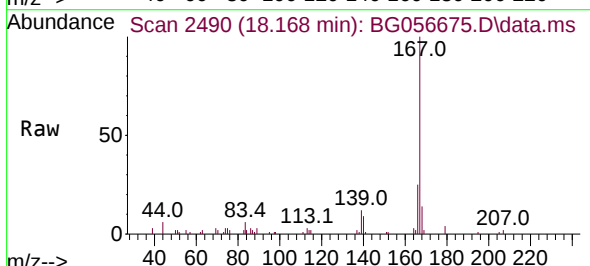
Tgt Ion:167 Resp: 23663

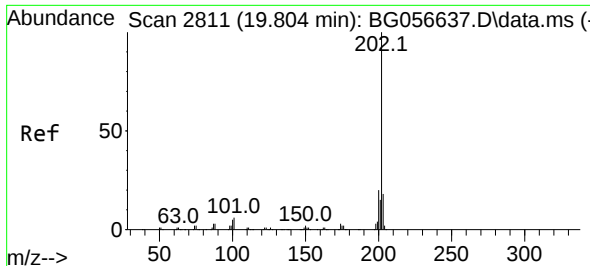
Ion Ratio Lower Upper

167 100

166 25.4 18.1 27.1

139 12.1 9.4 14.0

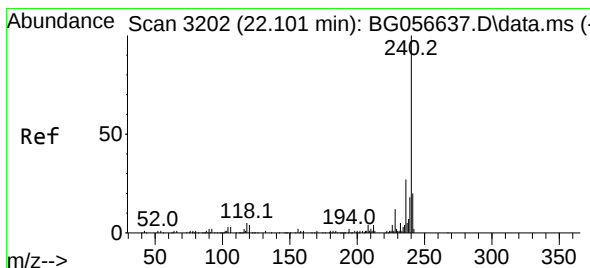
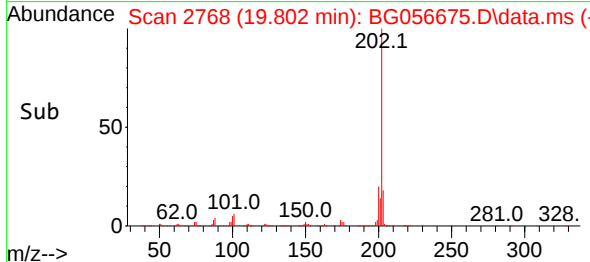
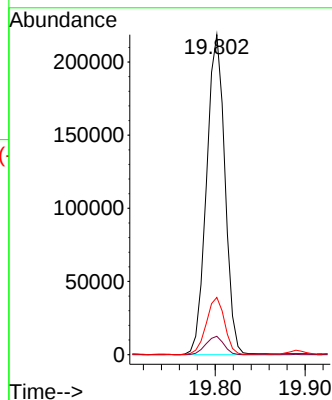
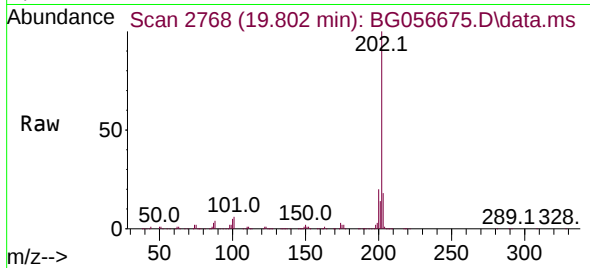




#75
Fluoranthene
Concen: 26.017 ng
RT: 19.802 min Scan# 211
Delta R.T. -0.002 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

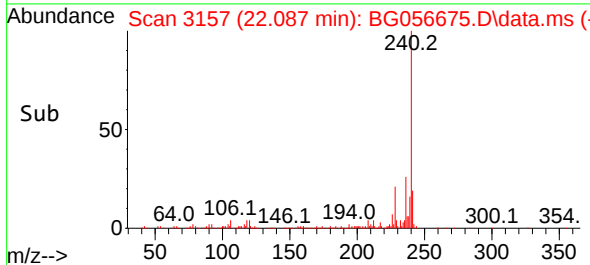
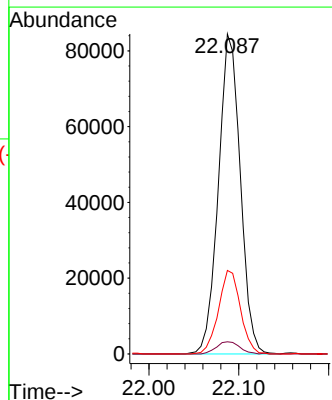
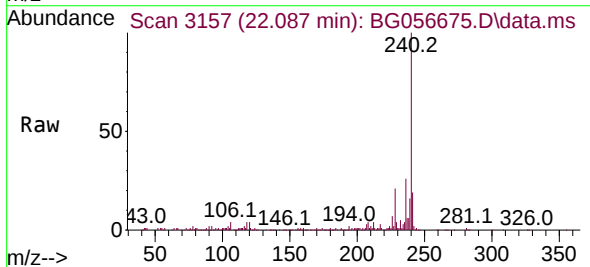
Instrument :
BNA_G
ClientSampleId :
SB-03-4.0-6.0DL

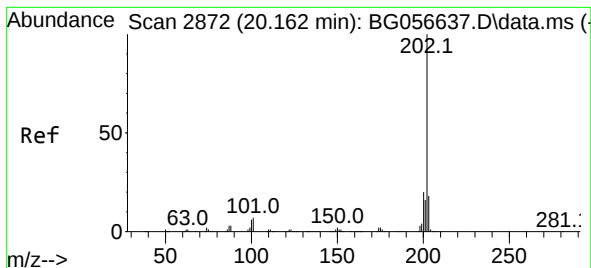
Tgt Ion:202 Resp: 311081
Ion Ratio Lower Upper
202 100
101 5.8 0.0 25.8
203 17.9 0.0 37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.087 min Scan# 3157
Delta R.T. -0.014 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

Tgt Ion:240 Resp: 143062
Ion Ratio Lower Upper
240 100
120 3.8 3.5 5.3
236 26.1 21.5 32.3





#78

Pyrene

Concen: 23.083 ng

RT: 20.160 min Scan# 2872

Delta R.T. -0.002 min

Lab File: BG056675.D

Acq: 20 Feb 2023 16:02

Instrument :

BNA_G

ClientSampleId :

SB-03-4.0-6.0DL

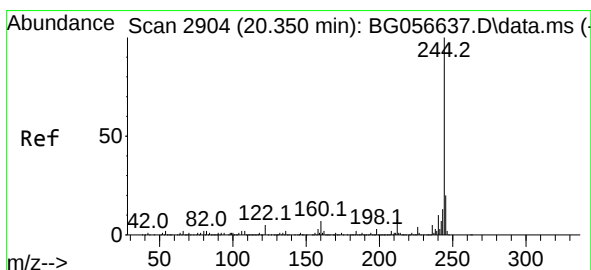
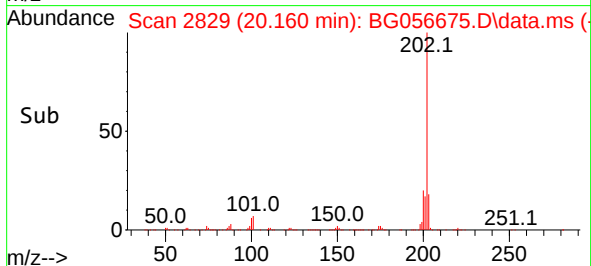
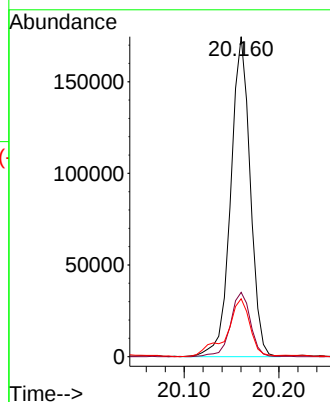
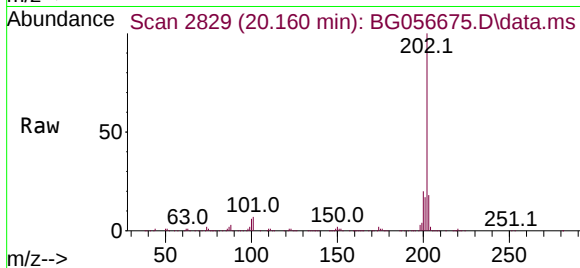
Tgt Ion:202 Resp: 249393

Ion Ratio Lower Upper

202 100

200 20.1 15.8 23.8

203 18.1 14.2 21.4



#79

Terphenyl-d14

Concen: 15.762 ng

RT: 20.336 min Scan# 2859

Delta R.T. -0.014 min

Lab File: BG056675.D

Acq: 20 Feb 2023 16:02

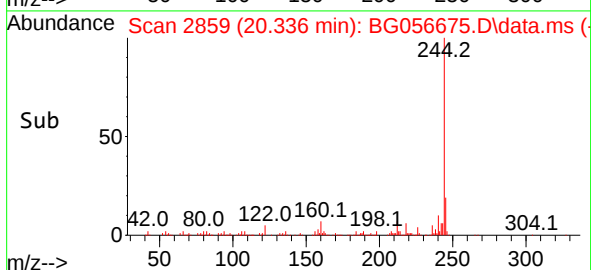
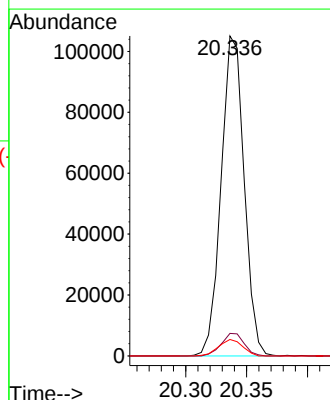
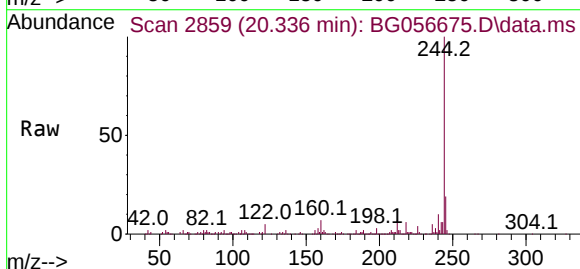
Tgt Ion:244 Resp: 137821

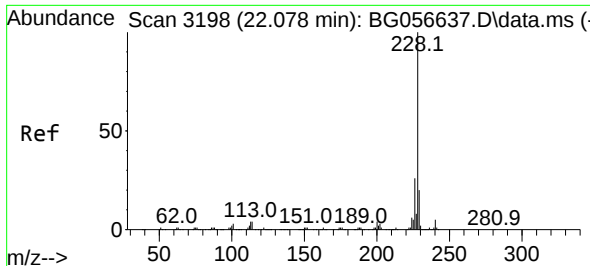
Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

122 5.1 3.8 5.8

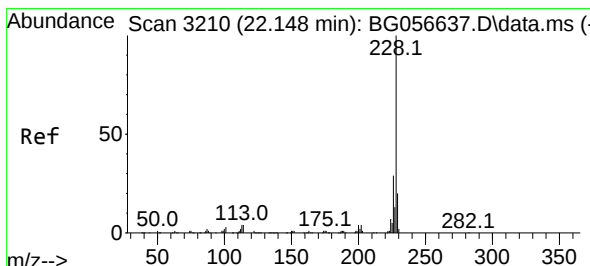
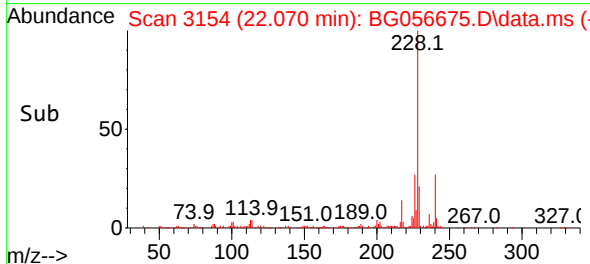
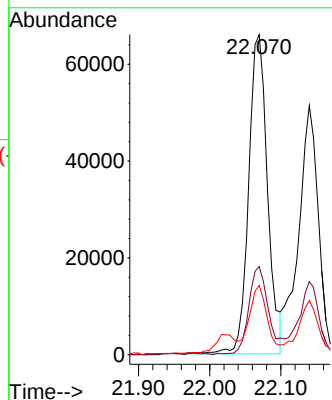
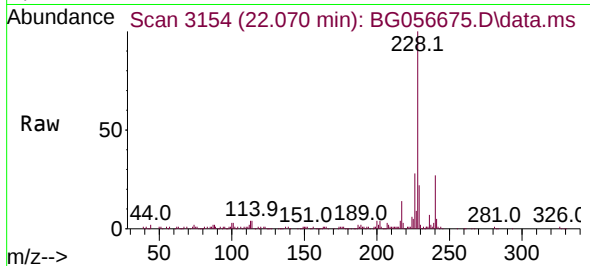




#81
Benzo(a)anthracene
Concen: 11.412 ng
RT: 22.070 min Scan# 3198
Delta R.T. -0.008 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

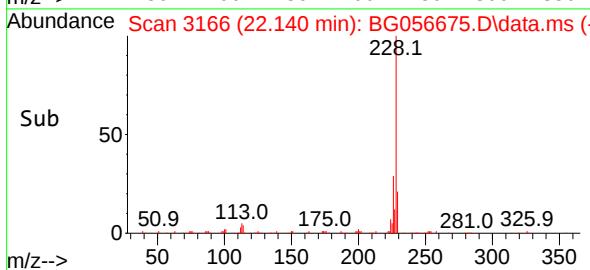
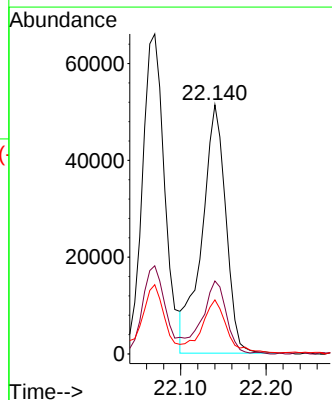
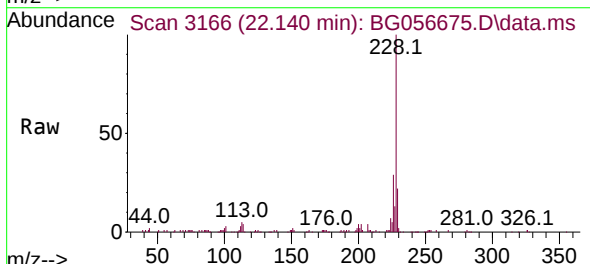
Instrument :
BNA_G
ClientSampleId :
SB-03-4.0-6.0DL

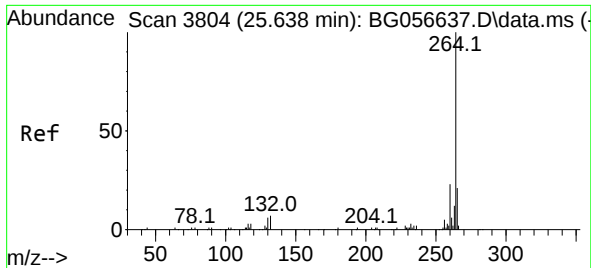
Tgt Ion:228 Resp: 121410
Ion Ratio Lower Upper
228 100
226 27.5 20.4 30.6
229 21.6 16.0 24.0



#83
Chrysene
Concen: 10.042 ng
RT: 22.140 min Scan# 3166
Delta R.T. -0.008 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

Tgt Ion:228 Resp: 99873
Ion Ratio Lower Upper
228 100
226 29.3 23.0 34.6
229 21.7 15.8 23.8

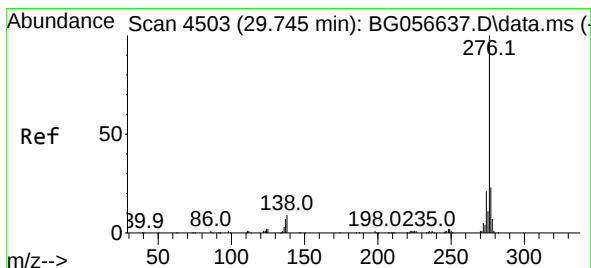
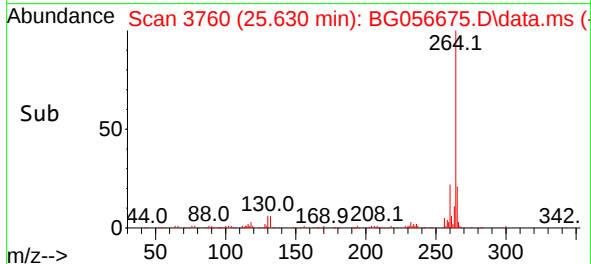
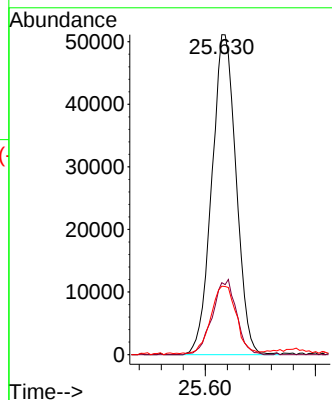
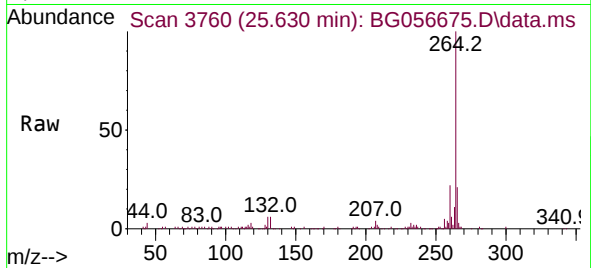




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.630 min Scan# 31
Delta R.T. -0.008 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

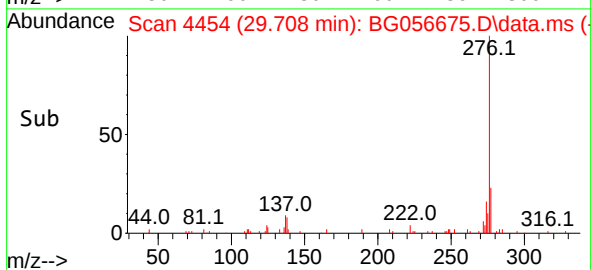
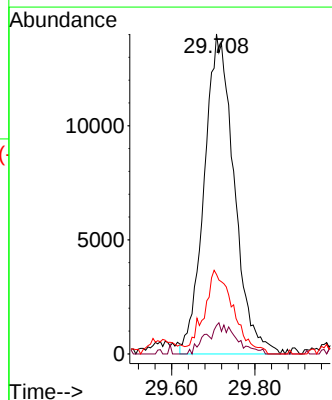
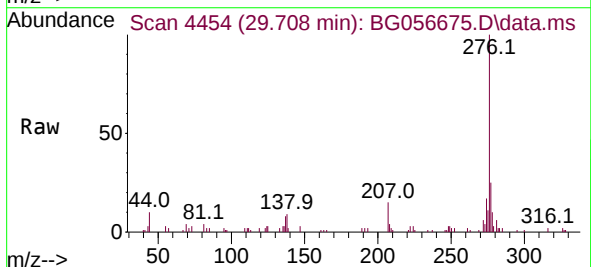
Instrument :
BNA_G
ClientSampleId :
SB-03-4.0-6.0DL

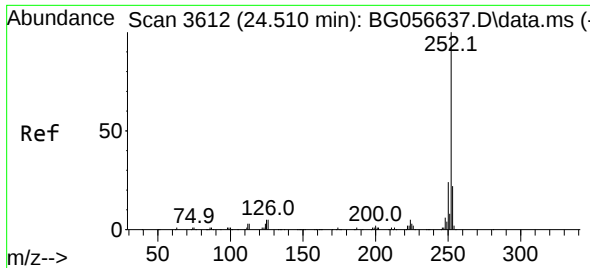
Tgt Ion:264 Resp: 156399
Ion Ratio Lower Upper
264 100
260 22.5 18.6 27.8
265 21.4 17.0 25.4



#87
Indeno(1,2,3-cd)pyrene
Concen: 5.718 ng
RT: 29.708 min Scan# 4454
Delta R.T. -0.037 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

Tgt Ion:276 Resp: 70043
Ion Ratio Lower Upper
276 100
138 6.9 3.8 5.8#
277 25.5 20.3 30.5

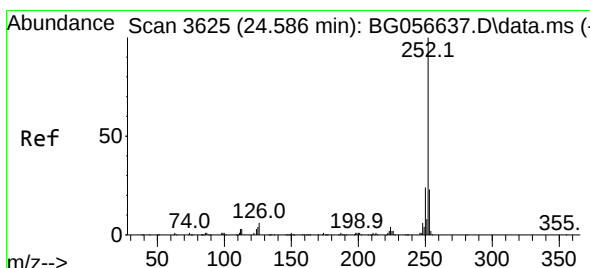
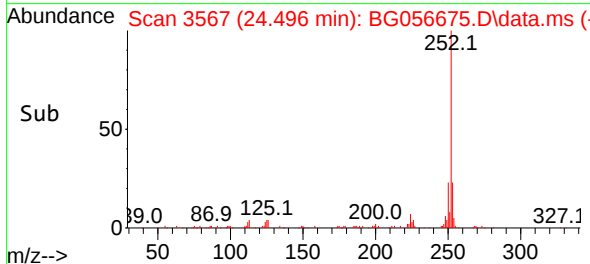
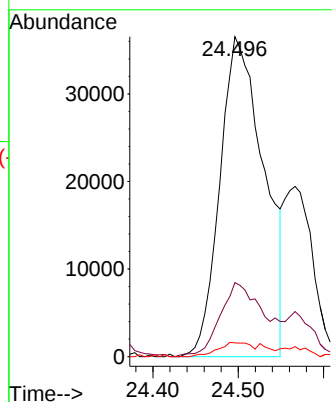
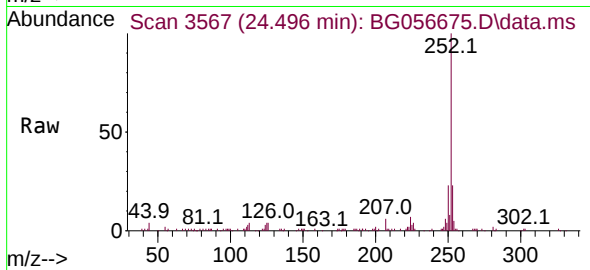




#88
Benzo(b)fluoranthene
Concen: 12.816 ng
RT: 24.496 min Scan# 3567
Delta R.T. -0.014 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

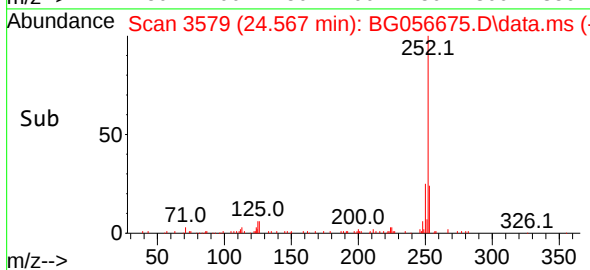
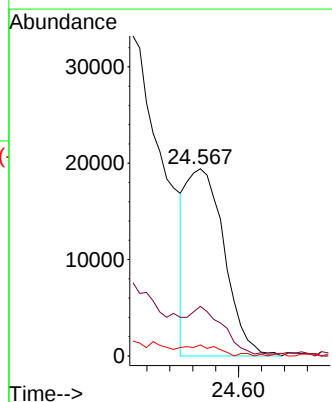
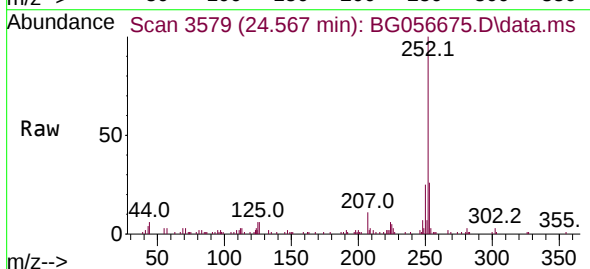
Instrument :
BNA_G
ClientSampleId :
SB-03-4.0-6.0DL

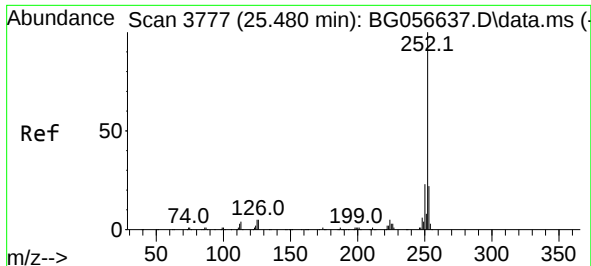
Tgt Ion:252 Resp: 130950
Ion Ratio Lower Upper
252 100
253 23.1 17.3 25.9
125 4.3 3.7 5.5



#89
Benzo(k)fluoranthene
Concen: 4.465 ng m
RT: 24.567 min Scan# 3579
Delta R.T. -0.020 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

Tgt Ion:252 Resp: 44861
Ion Ratio Lower Upper
252 100
253 26.5 18.5 27.7
125 5.9 3.4 5.0#

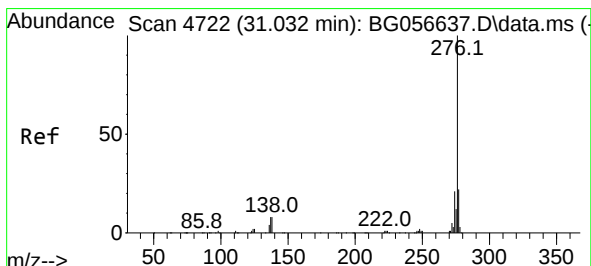
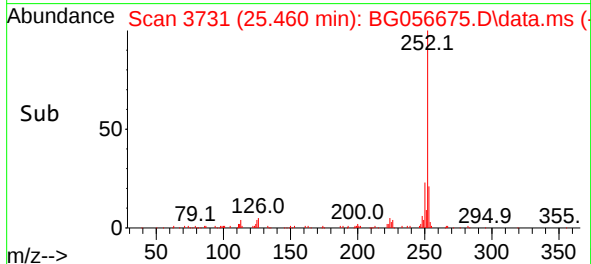
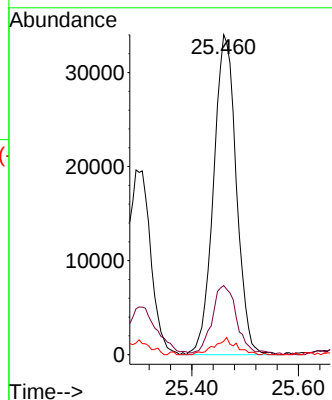
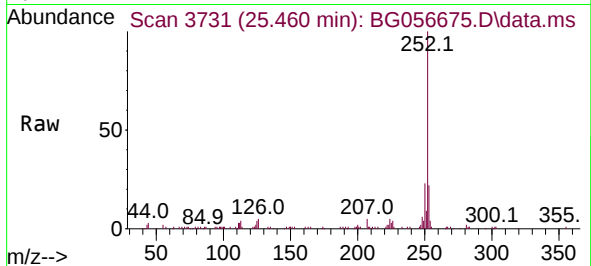




#90
Benzo(a)pyrene
Concen: 10.275 ng
RT: 25.460 min Scan# 31
Delta R.T. -0.020 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

Instrument :
BNA_G
ClientSampleId :
SB-03-4.0-6.0DL

Tgt Ion:252 Resp: 100918
Ion Ratio Lower Upper
252 100
253 21.6 17.9 26.9
125 4.2 4.0 6.0



#92
Benzo(g,h,i)perylene
Concen: 6.708 ng
RT: 30.983 min Scan# 4671
Delta R.T. -0.049 min
Lab File: BG056675.D
Acq: 20 Feb 2023 16:02

Tgt Ion:276 Resp: 66496
Ion Ratio Lower Upper
276 100
277 22.9 17.5 26.3
138 8.2 6.4 9.6

