

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG041524\
 Data File : BG060906.D
 Acq On : 15 Apr 2024 18:31
 Operator : MA/JU
 Sample : P2091-01DL 10X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-02-041124DL

Quant Time: Apr 16 01:03:27 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG032924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Mar 30 03:12:26 2024
 Response via : Initial Calibration

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

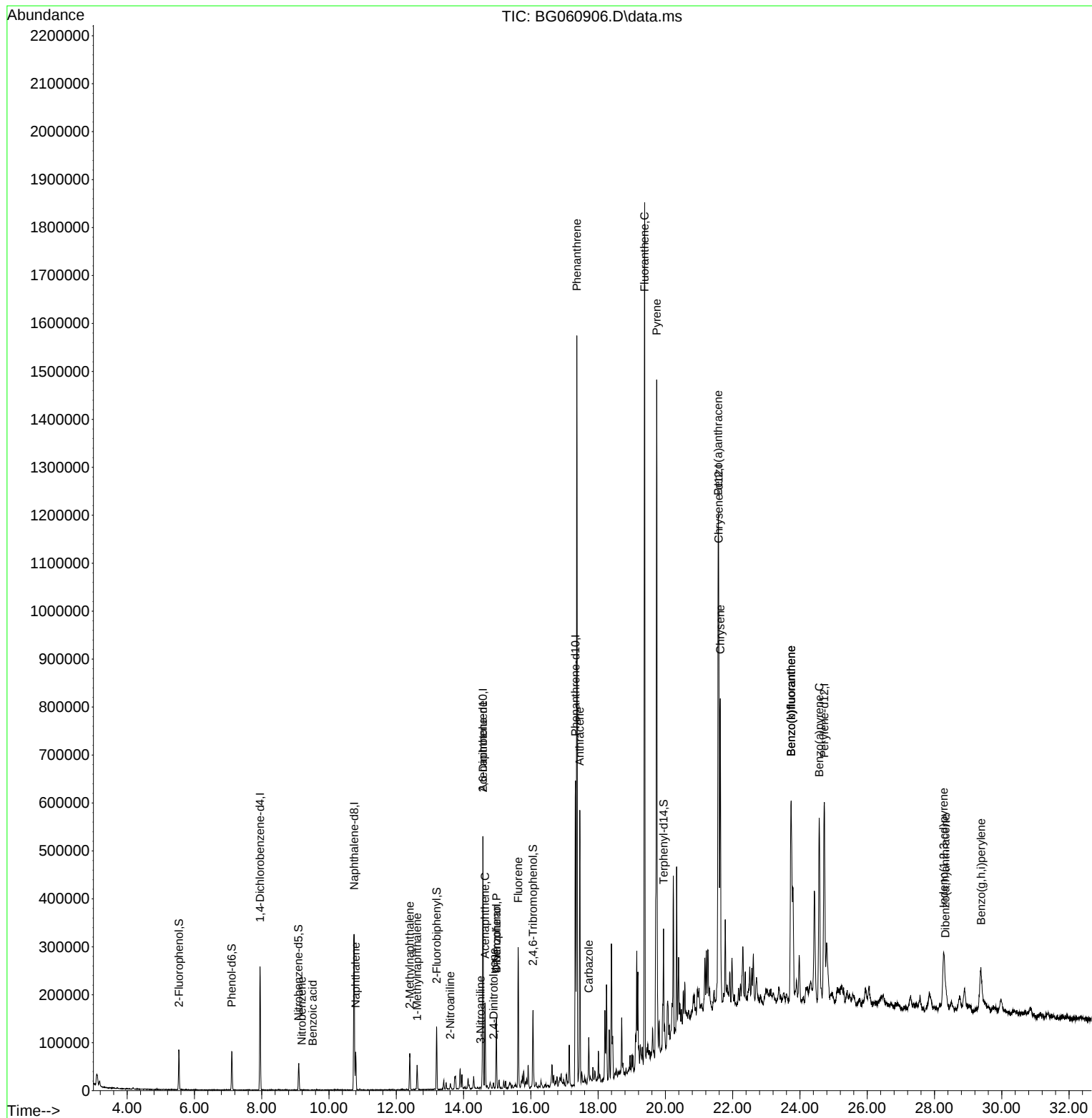
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.950	152	67901	20.000	ng	-0.01
21) Naphthalene-d8	10.746	136	258549	20.000	ng	-0.01
39) Acenaphthene-d10	14.577	164	187138	20.000	ng	-0.01
64) Phenanthrene-d10	17.327	188	416279	20.000	ng	#-0.01
76) Chrysene-d12	21.587	240	387191	20.000	ng	-0.02
86) Perylene-d12	24.724	264	458777	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.541	112	33792	8.291	ng	0.00
7) Phenol-d6	7.109	99	41829	6.914	ng	0.00
23) Nitrobenzene-d5	9.095	82	30989	6.839	ng	-0.02
42) 2,4,6-Tribromophenol	16.064	330	21171	9.966	ng	-0.01
45) 2-Fluorobiphenyl	13.202	172	66474	5.213	ng	-0.02
79) Terphenyl-d14	19.947	244	124747	5.673	ng	-0.02
Target Compounds						Qvalue
24) Nitrobenzene	9.189	77	77	2.787	ng	# 42
31) Naphthalene	10.793	128	59771	4.274	ng	98
32) Benzoic acid	9.518	122	55	6.853	ng	# 1
37) 2-Methylnaphthalene	12.403	142	34151	3.321	ng	97
38) 1-Methylnaphthalene	12.621	142	22147	2.280	ng	98
48) 2-Nitroaniline	13.608	65	58	2.809	ng	# 11
51) 2,6-Dinitrotoluene	14.577	165	26090	12.628	ng	# 20
52) Acenaphthene	14.642	154	64765	6.113	ng	98
53) 3-Nitroaniline	14.507	138	67	2.873	ng	# 1
55) Dibenzofuran	14.977	168	83317	4.986	ng	99
56) 4-Nitrophenol	14.977	139	32443	15.003	ng	# 1
57) 2,4-Dinitrotoluene	14.894	165	913	3.502	ng	# 34
58) Fluorene	15.623	166	123532	9.210	ng	99
71) Phenanthrene	17.368	178	944556	43.629	ng	99
72) Anthracene	17.456	178	362237	16.475	ng	99
73) Carbazole	17.721	167	58815	3.034	ng	99
75) Fluoranthene	19.383	202	1165235	44.355	ng	97
78) Pyrene	19.742	202	968492	35.765	ng	99
81) Benzo(a)anthracene	21.569	228	542239	19.867	ng	99
83) Chrysene	21.634	228	450752	17.135	ng	99
87) Indeno(1,2,3-cd)pyrene	28.273	276	242119	7.494	ng	97
88) Benzo(b)fluoranthene	23.737	252	543382	20.617	ng	99
89) Benzo(k)fluoranthene	23.737	252	543382	20.142	ng	98
90) Benzo(a)pyrene	24.577	252	432443	16.883	ng	97
91) Dibenzo(a,h)anthracene	28.326	278	58610	2.152	ng	93
92) Benzo(g,h,i)perylene	29.383	276	228544	8.627	ng	97

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

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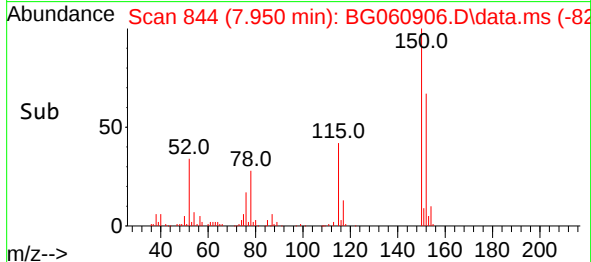
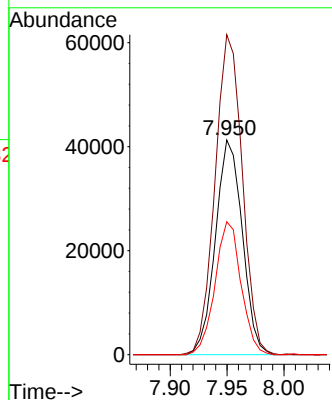
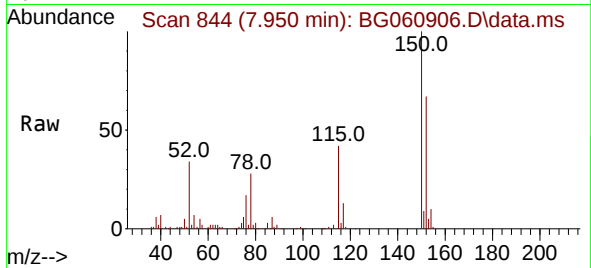




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.950 min Scan# 846
Delta R.T. -0.011 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

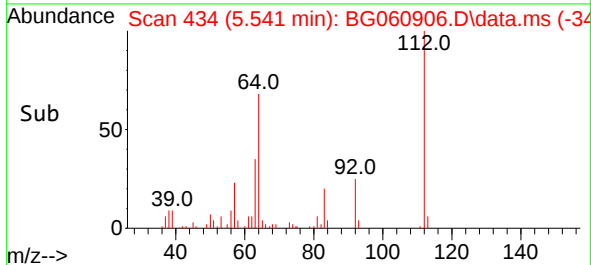
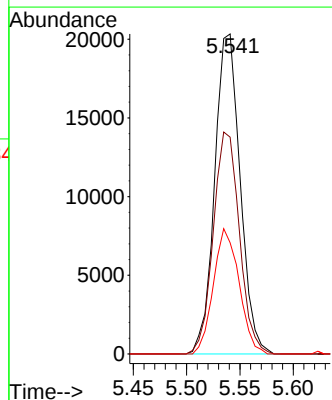
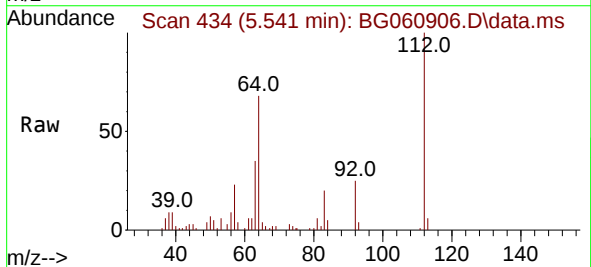
Instrument :
BNA_G
ClientSampleId :
OR-02-041124DL

Tgt Ion:152 Resp: 67901
Ion Ratio Lower Upper
152 100
150 149.1 130.2 195.4
115 62.0 51.6 77.4



#5
2-Fluorophenol
Concen: 8.291 ng
RT: 5.541 min Scan# 434
Delta R.T. 0.006 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Tgt Ion:112 Resp: 33792
Ion Ratio Lower Upper
112 100
64 67.7 58.4 87.6
63 34.8 32.7 49.1

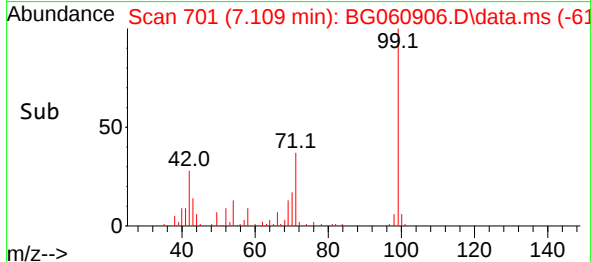
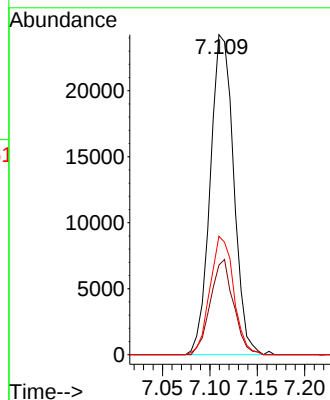
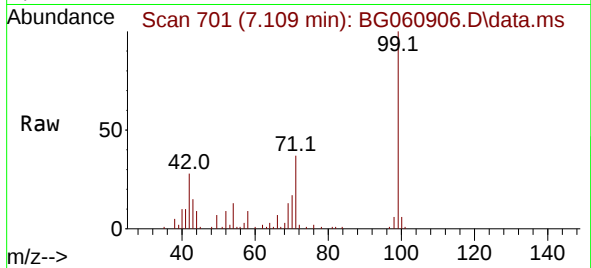




#7
Phenol-d6
Concen: 6.914 ng
RT: 7.109 min Scan# 702
Delta R.T. -0.006 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

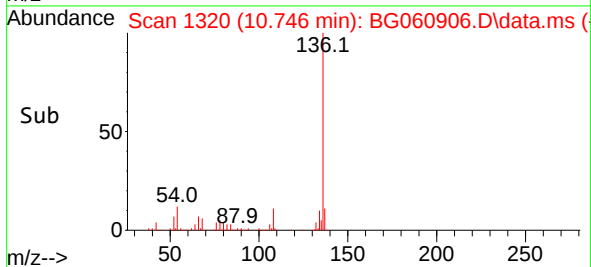
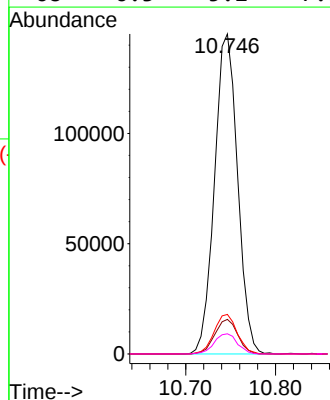
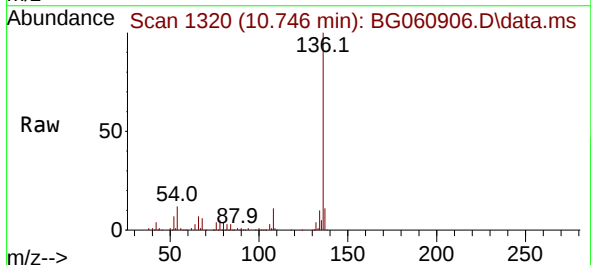
Instrument :
BNA_G
ClientSampleId :
OR-02-041124DL

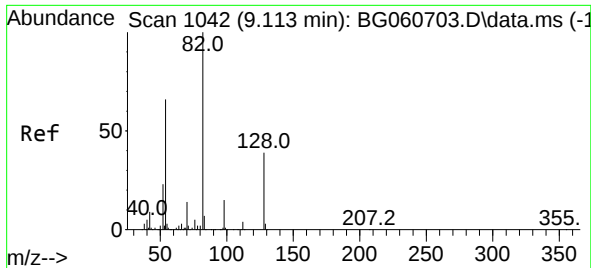
Tgt Ion: 99 Resp: 41829
Ion Ratio Lower Upper
99 100
42 28.0 19.4 29.2
71 37.0 28.2 42.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.746 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Tgt Ion:136 Resp: 258549
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 12.3 10.2 15.2
68 6.3 5.2 7.8





#23

Nitrobenzene-d5

Concen: 6.839 ng

RT: 9.095 min Scan# 1039

Delta R.T. -0.018 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL

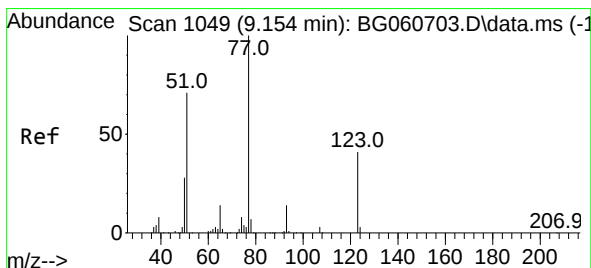
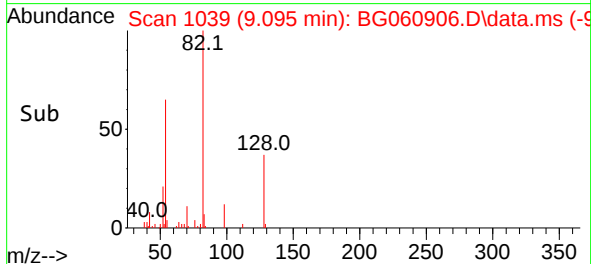
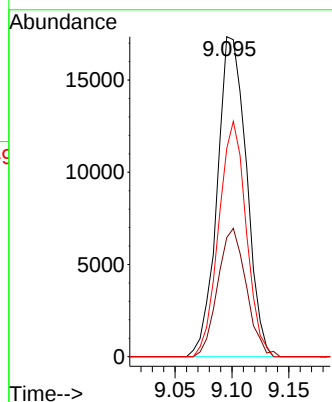
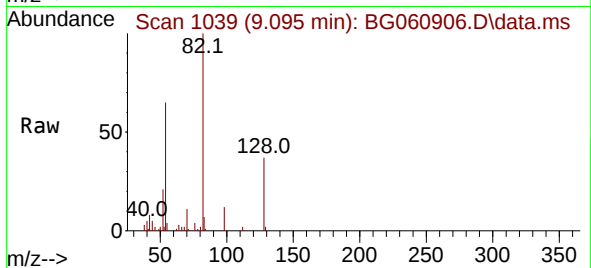
Tgt Ion: 82 Resp: 30989

Ion Ratio Lower Upper

82 100

128 37.2 31.2 46.8

54 65.1 53.2 79.8



#24

Nitrobenzene

Concen: 2.787 ng

RT: 9.189 min Scan# 1055

Delta R.T. 0.035 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

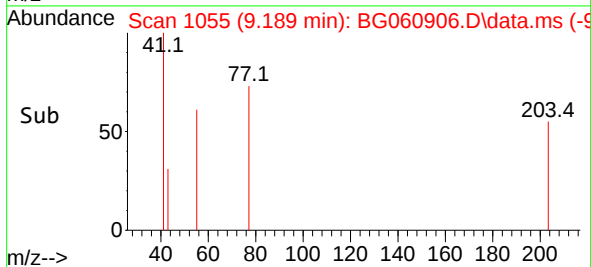
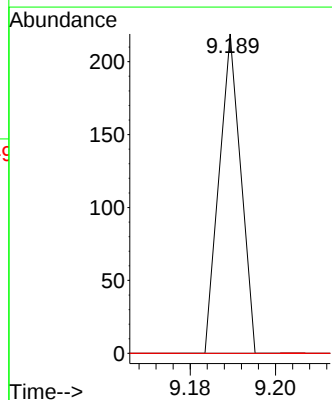
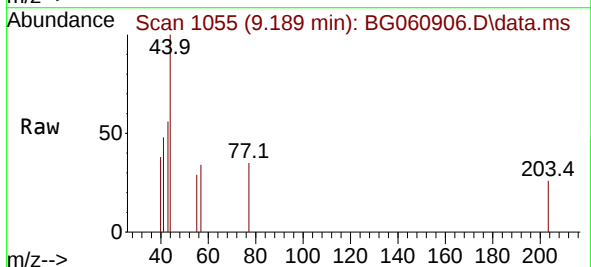
Tgt Ion: 77 Resp: 77

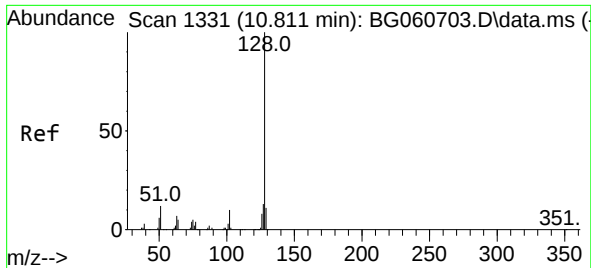
Ion Ratio Lower Upper

77 100

123 0.0 32.7 49.1#

65 0.0 11.3 16.9#

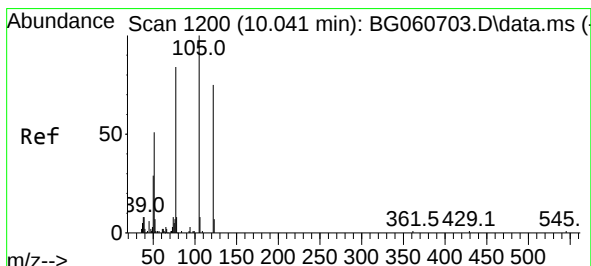
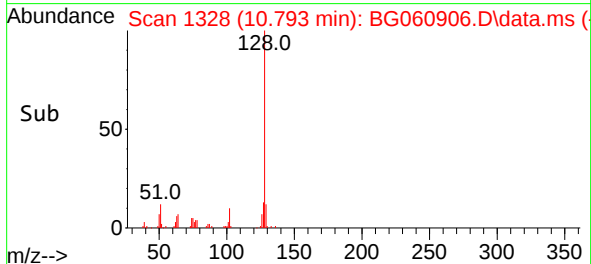
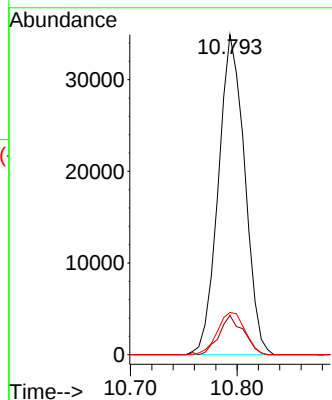
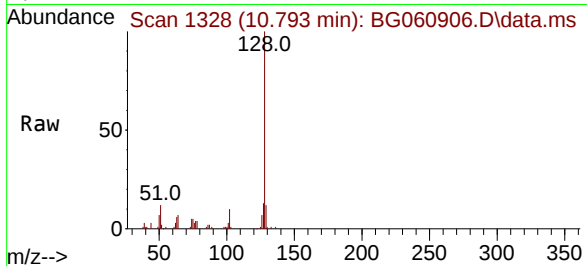




#31
Naphthalene
Concen: 4.274 ng
RT: 10.793 min Scan# 1111
Delta R.T. -0.018 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

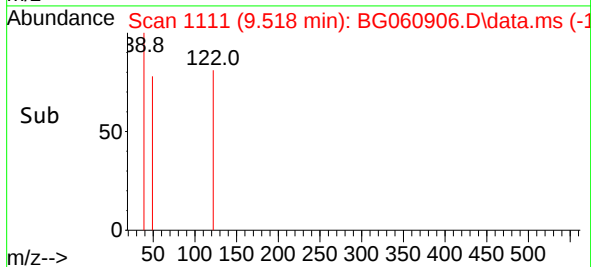
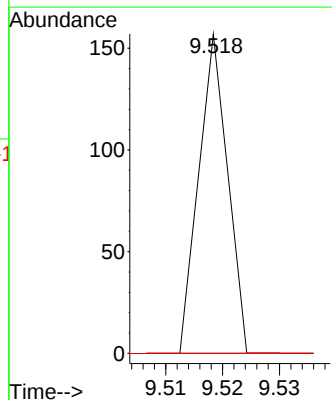
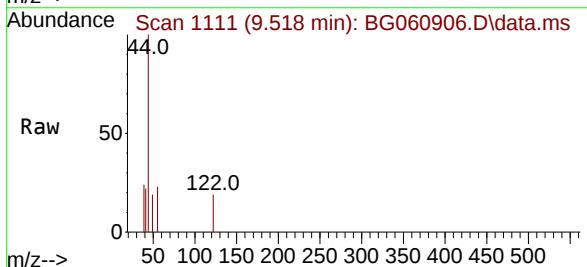
Instrument :
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ClientSampleId :
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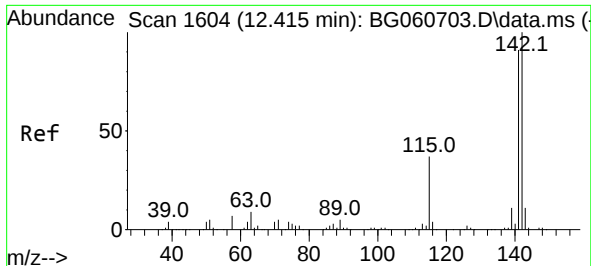
Tgt Ion:128 Resp: 59771
Ion Ratio Lower Upper
128 100
129 12.3 8.5 12.7
127 13.2 10.5 15.7



#32
Benzoic acid
Concen: 6.853 ng
RT: 9.518 min Scan# 1111
Delta R.T. -0.523 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Tgt Ion:122 Resp: 55
Ion Ratio Lower Upper
122 100
105 0.0 104.5 144.5#
77 0.0 85.3 125.3#





#37

2-Methylnaphthalene

Concen: 3.321 ng

RT: 12.403 min Scan# 1

Delta R.T. -0.012 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL

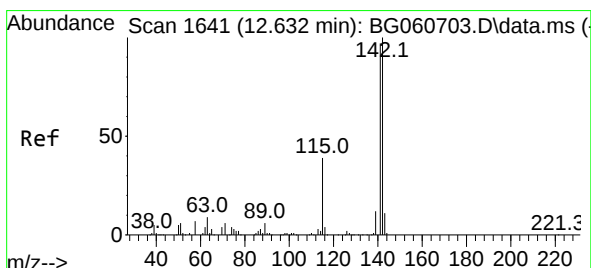
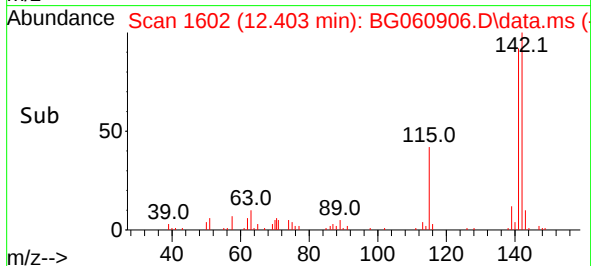
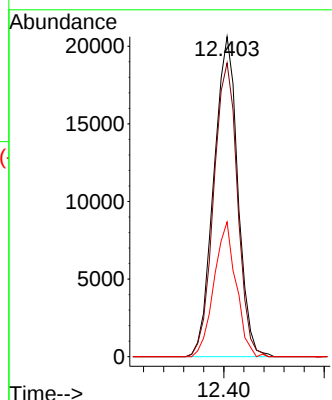
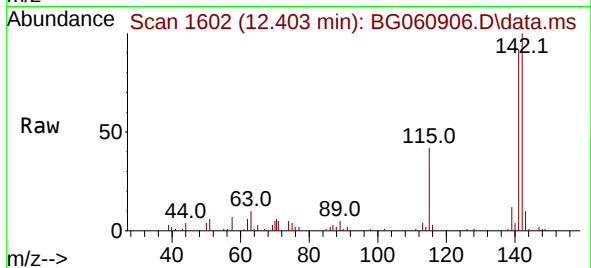
Tgt Ion:142 Resp: 34151

Ion Ratio Lower Upper

142 100

141 91.8 72.7 109.1

115 42.1 29.9 44.9



#38

1-Methylnaphthalene

Concen: 2.280 ng

RT: 12.621 min Scan# 1639

Delta R.T. -0.012 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

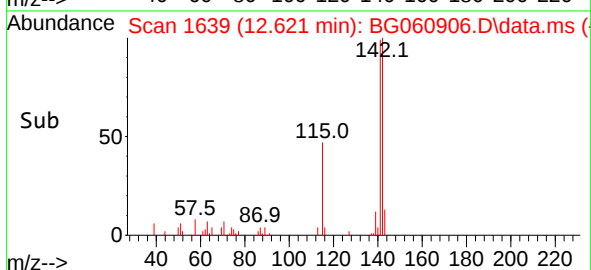
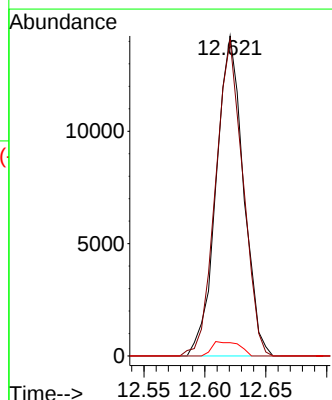
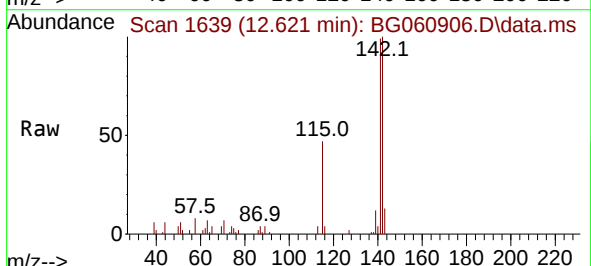
Tgt Ion:142 Resp: 22147

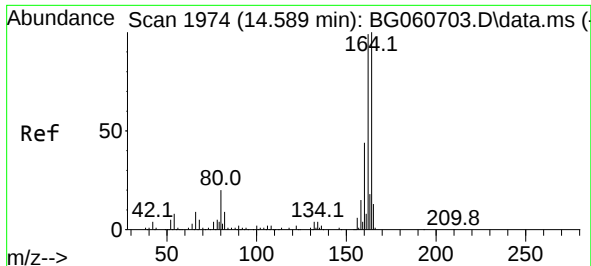
Ion Ratio Lower Upper

142 100

141 98.7 77.7 116.5

116 4.1 3.4 5.2

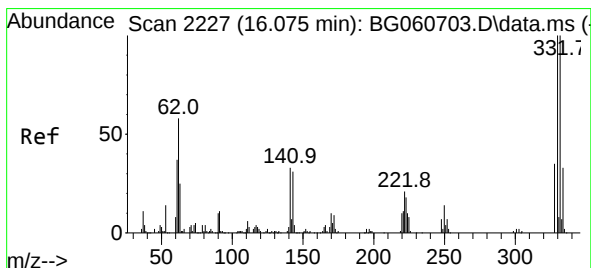
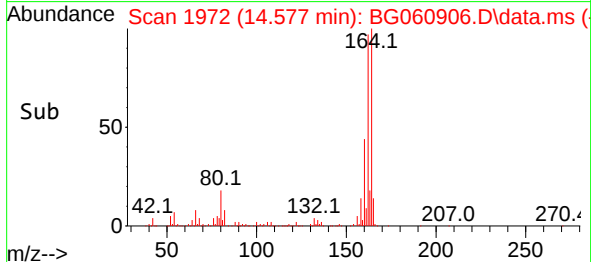
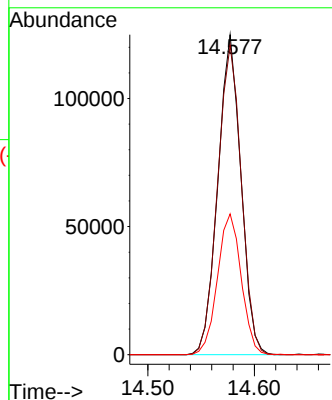
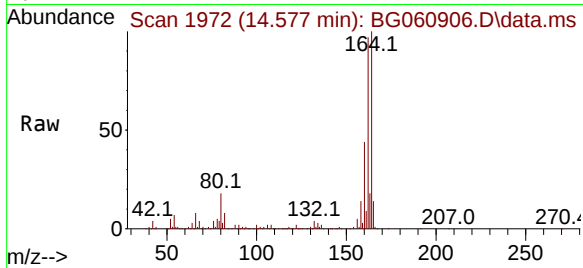




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.577 min Scan# 1974
Delta R.T. -0.012 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

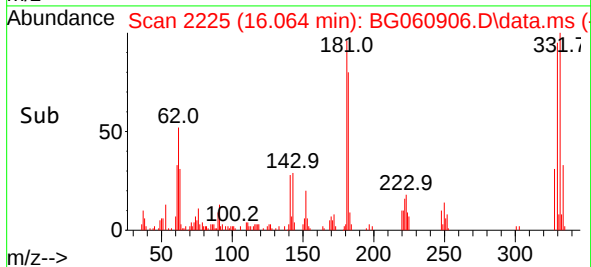
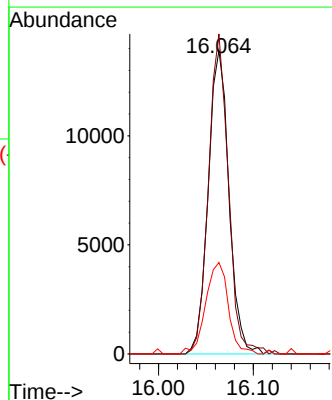
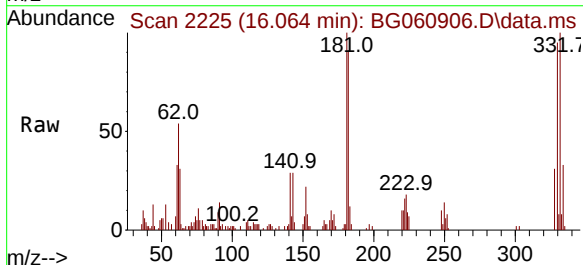
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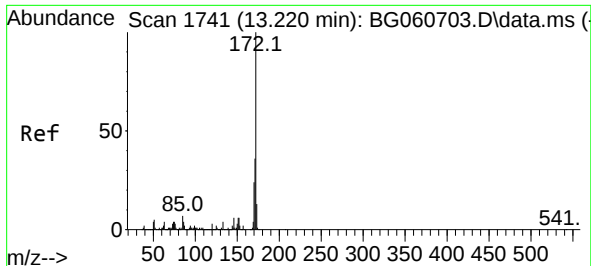
Tgt Ion:164 Resp: 187138
Ion Ratio Lower Upper
164 100
162 96.7 79.5 119.3
160 44.0 35.4 53.0



#42
2,4,6-Tribromophenol
Concen: 9.966 ng
RT: 16.064 min Scan# 2225
Delta R.T. -0.012 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Tgt Ion:330 Resp: 21171
Ion Ratio Lower Upper
330 100
332 100.6 78.2 117.4
141 32.8 27.0 40.6

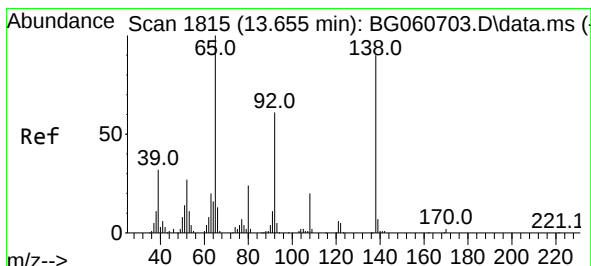
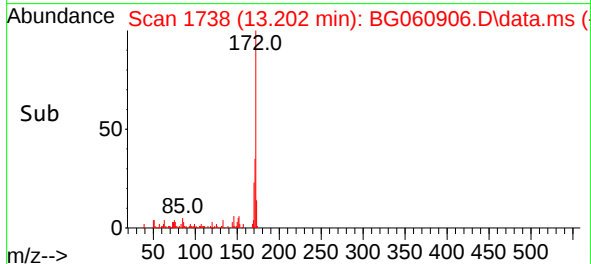
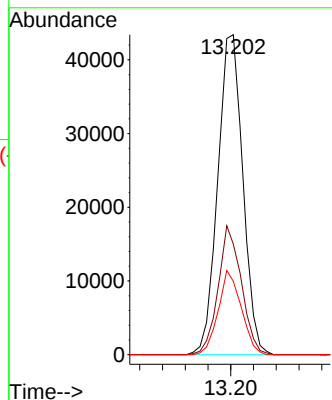
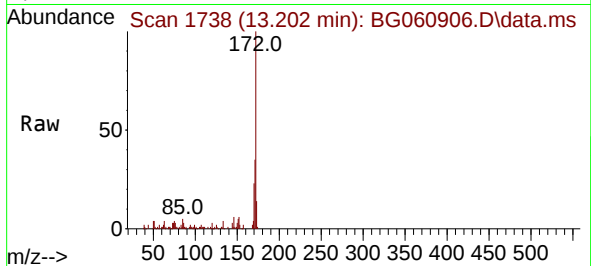




#45
2-Fluorobiphenyl
Concen: 5.213 ng
RT: 13.202 min Scan# 1
Delta R.T. -0.018 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

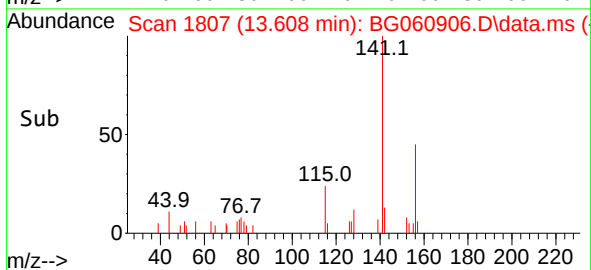
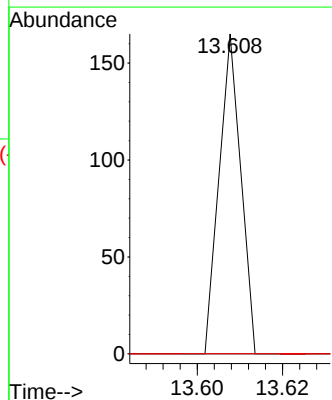
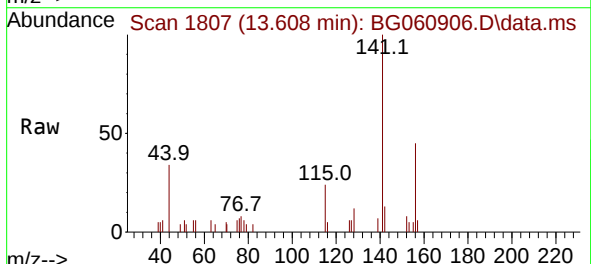
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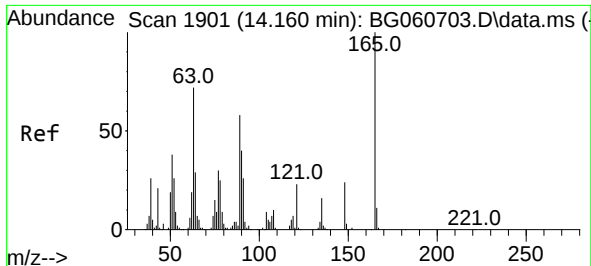
Tgt Ion:172 Resp: 66474
Ion Ratio Lower Upper
172 100
171 34.5 28.7 43.1
170 23.0 19.4 29.0



#48
2-Nitroaniline
Concen: 2.809 ng
RT: 13.608 min Scan# 1807
Delta R.T. -0.047 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Tgt Ion: 65 Resp: 58
Ion Ratio Lower Upper
65 100
92 0.0 48.6 72.8#
138 0.0 72.2 108.4#

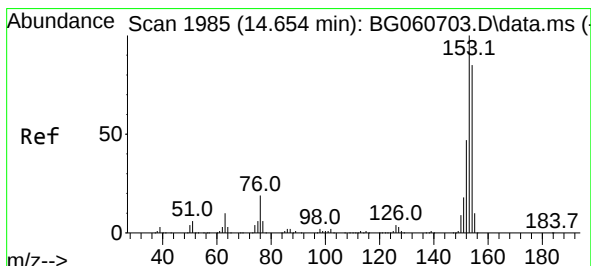
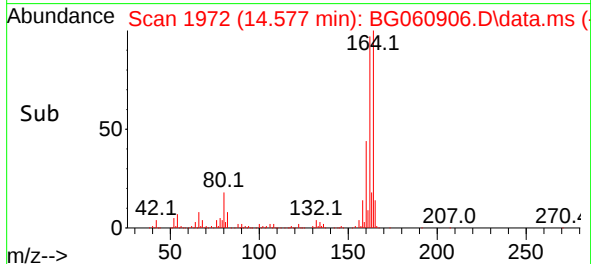
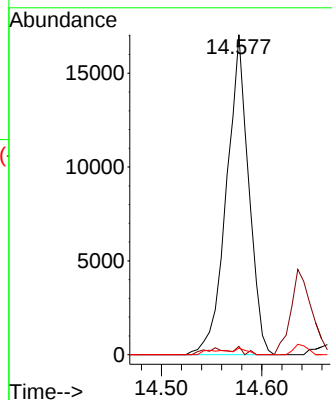
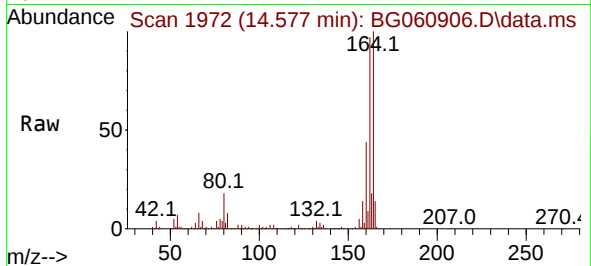




#51
2,6-Dinitrotoluene
Concen: 12.628 ng
RT: 14.577 min Scan# 1901
Delta R.T. 0.417 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

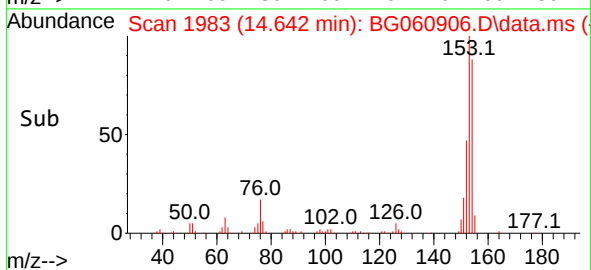
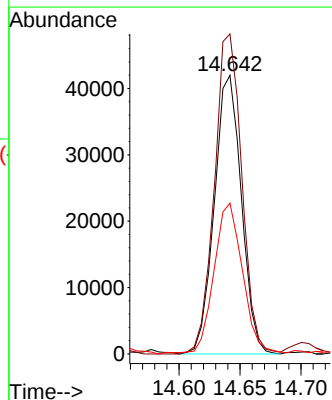
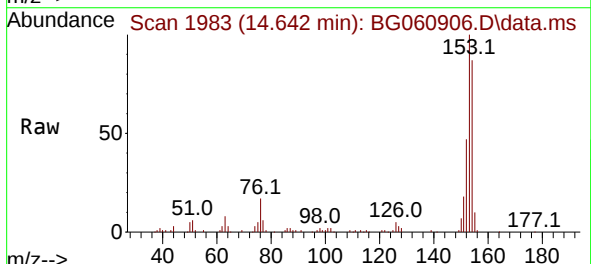
Instrument :
BNA_G
ClientSampleId :
OR-02-041124DL

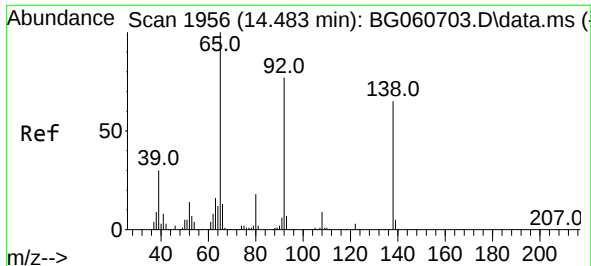
Tgt Ion:165 Resp: 26090
Ion Ratio Lower Upper
165 100
63 2.6 58.2 87.4#
89 2.1 46.1 69.1#



#52
Acenaphthene
Concen: 6.113 ng
RT: 14.642 min Scan# 1983
Delta R.T. -0.012 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Tgt Ion:154 Resp: 64765
Ion Ratio Lower Upper
154 100
153 114.9 93.9 140.9
152 54.2 44.1 66.1

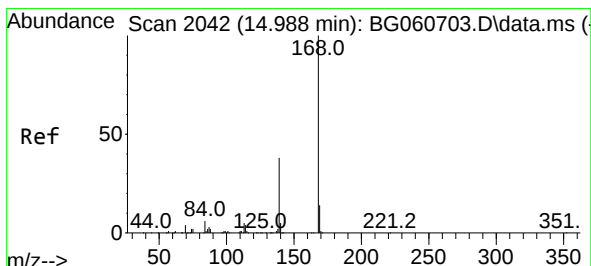
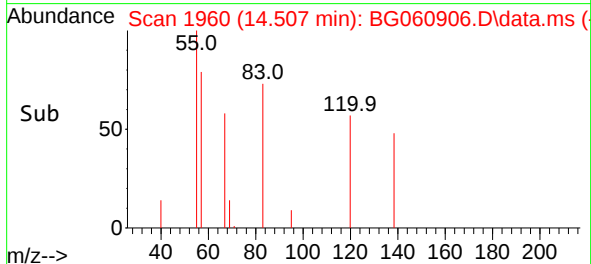
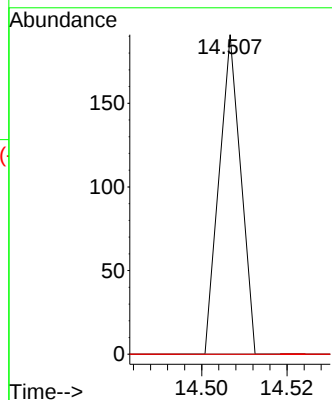
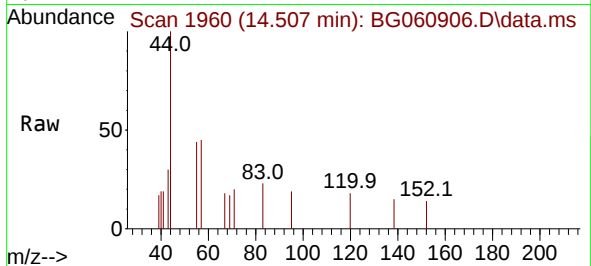




#53
3-Nitroaniline
Concen: 2.873 ng
RT: 14.507 min Scan# 1956
Delta R.T. 0.024 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

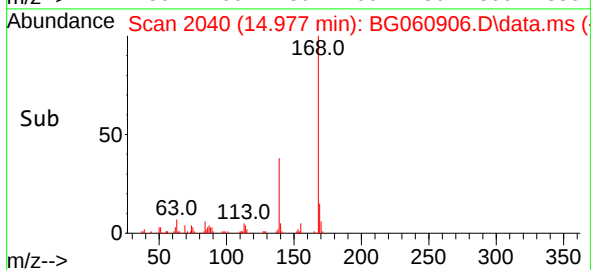
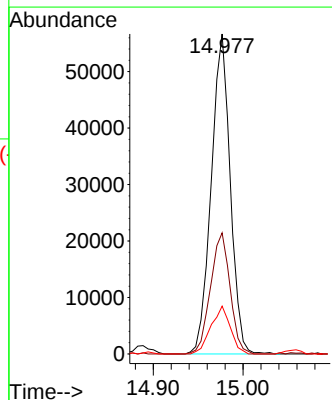
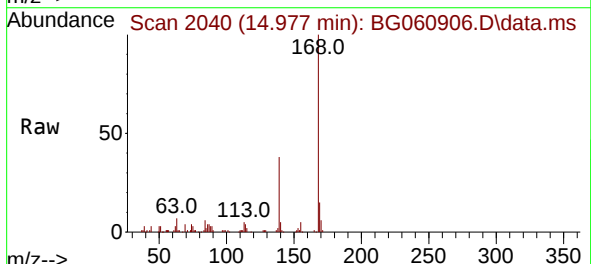
Instrument :
BNA_G
ClientSampleId :
OR-02-041124DL

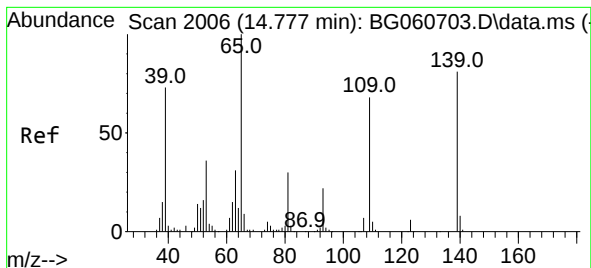
Tgt Ion:138 Resp: 67
Ion Ratio Lower Upper
138 100
108 0.0 11.3 16.9#
92 0.0 94.1 141.1#



#55
Dibenzofuran
Concen: 4.986 ng
RT: 14.977 min Scan# 2040
Delta R.T. -0.011 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Tgt Ion:168 Resp: 83317
Ion Ratio Lower Upper
168 100
139 37.9 30.1 45.1
169 15.0 11.0 16.4

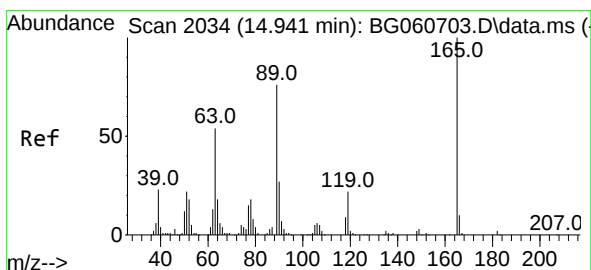
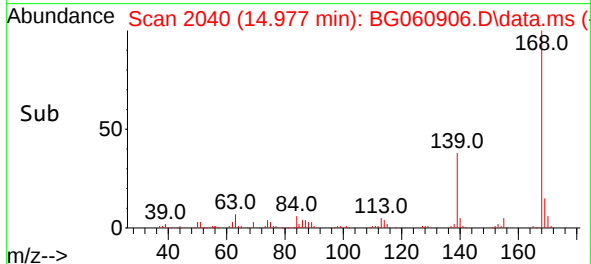
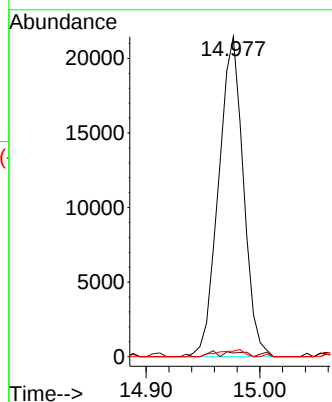
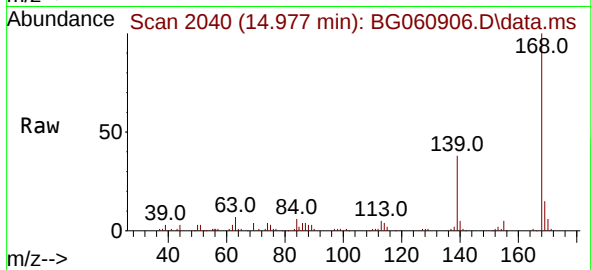




#56
4-Nitrophenol
Concen: 15.003 ng
RT: 14.977 min Scan# 2006
Delta R.T. 0.200 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

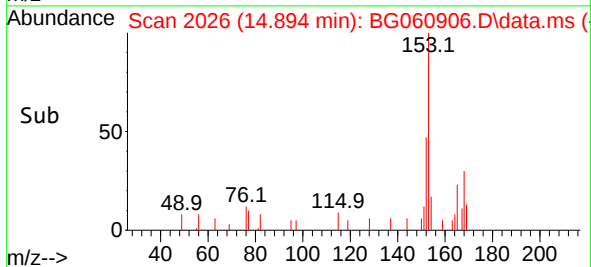
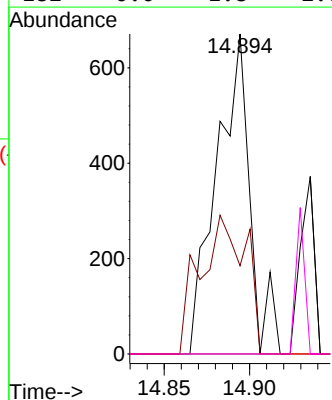
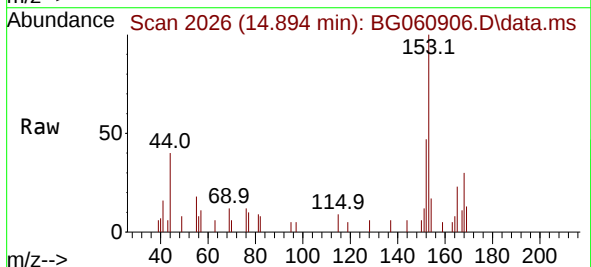
Instrument :
BNA_G
ClientSampleId :
OR-02-041124DL

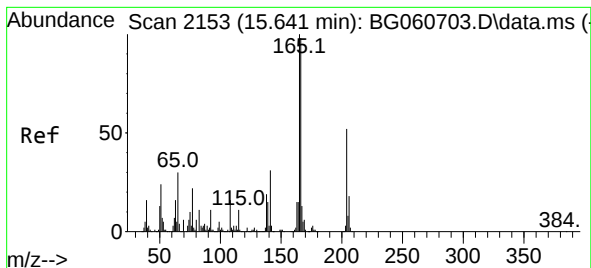
Tgt Ion:139 Resp: 32443
Ion Ratio Lower Upper
139 100
109 1.1 64.0 104.0#
65 1.7 104.3 144.3#



#57
2,4-Dinitrotoluene
Concen: 3.502 ng
RT: 14.894 min Scan# 2026
Delta R.T. -0.047 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Tgt Ion:165 Resp: 913
Ion Ratio Lower Upper
165 100
63 27.6 43.4 65.0#
89 0.0 61.0 91.6#
182 0.0 1.8 2.6#





#58

Fluorene

Concen: 9.210 ng

RT: 15.623 min Scan# 2153

Delta R.T. -0.018 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL

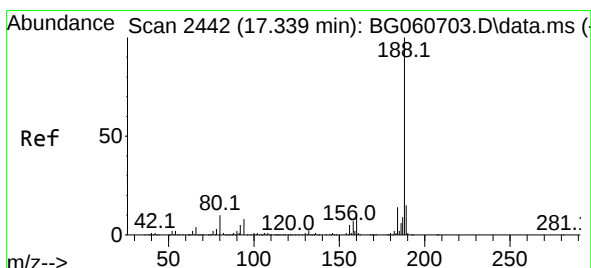
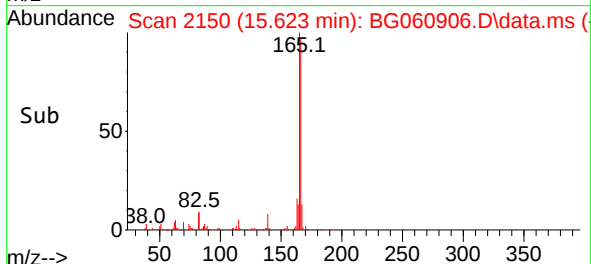
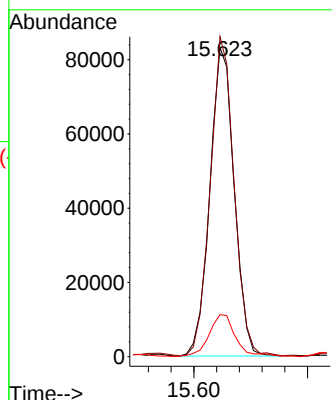
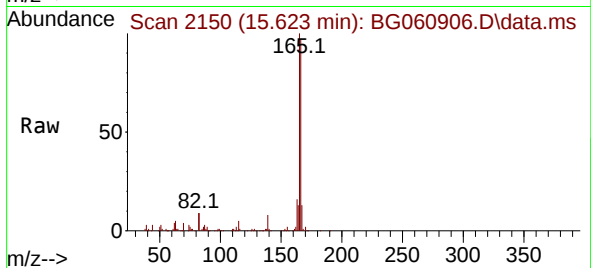
Tgt Ion:166 Resp: 123532

Ion Ratio Lower Upper

166 100

165 103.5 81.8 122.8

167 13.6 10.9 16.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.327 min Scan# 2440

Delta R.T. -0.012 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

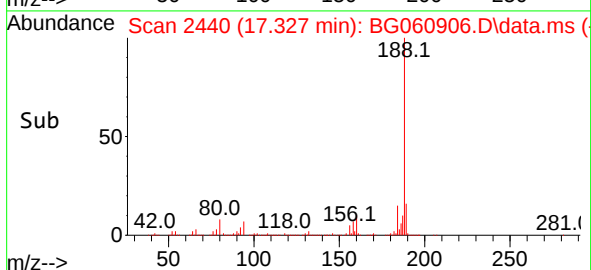
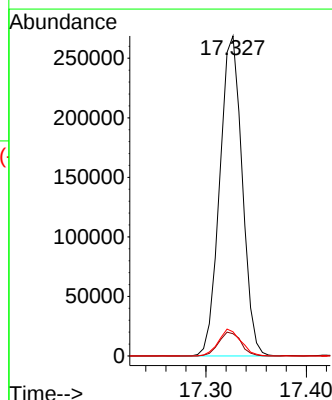
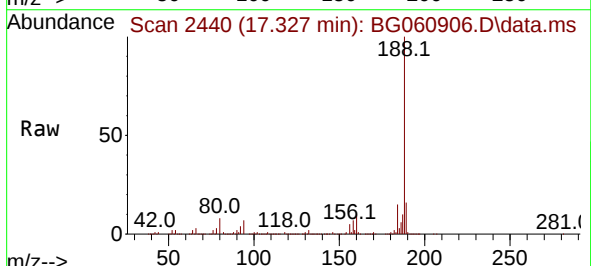
Tgt Ion:188 Resp: 416279

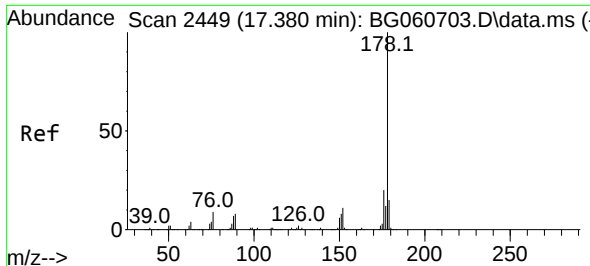
Ion Ratio Lower Upper

188 100

94 7.0 6.6 9.8

80 7.6 7.6 11.4#

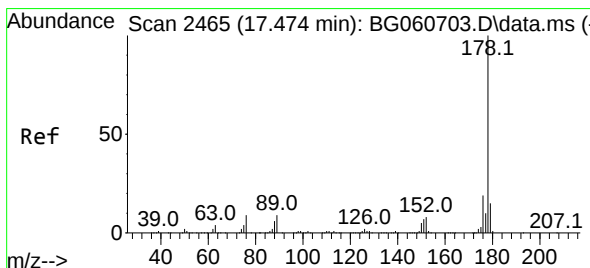
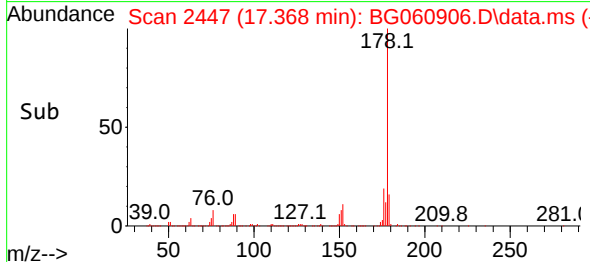
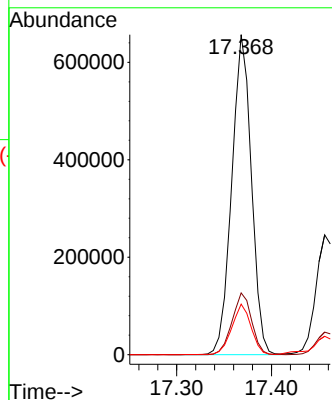
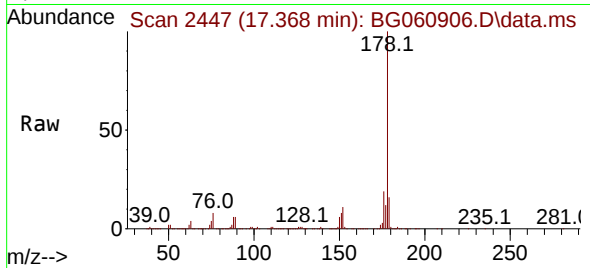




#71
Phenanthrene
Concen: 43.629 ng
RT: 17.368 min Scan# 2447
Delta R.T. -0.012 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

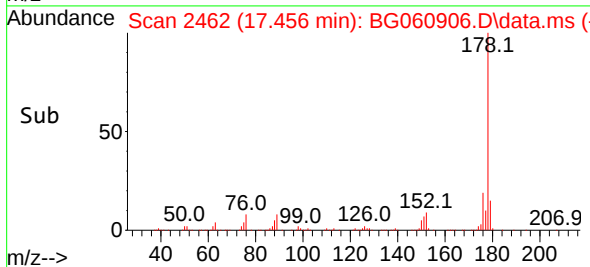
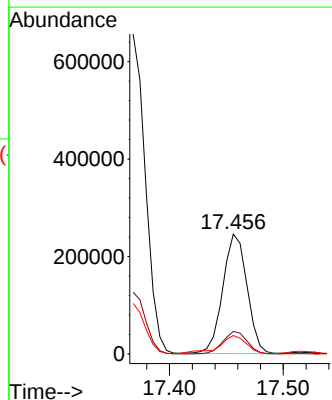
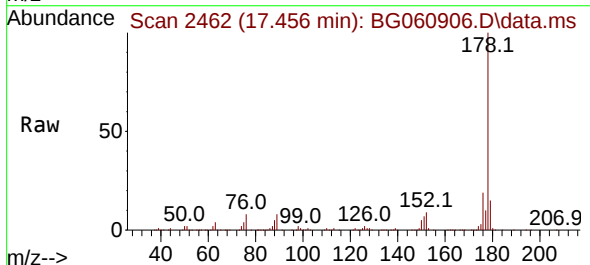
Instrument :
BNA_G
ClientSampleId :
OR-02-041124DL

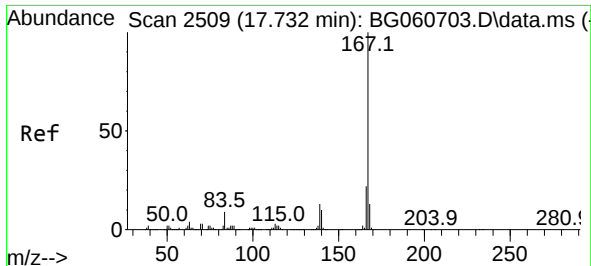
Tgt Ion:178 Resp: 944556
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.6
179 15.8 12.2 18.4



#72
Anthracene
Concen: 16.475 ng
RT: 17.456 min Scan# 2462
Delta R.T. -0.018 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Tgt Ion:178 Resp: 362237
Ion Ratio Lower Upper
178 100
176 18.8 15.5 23.3
179 15.4 12.2 18.2

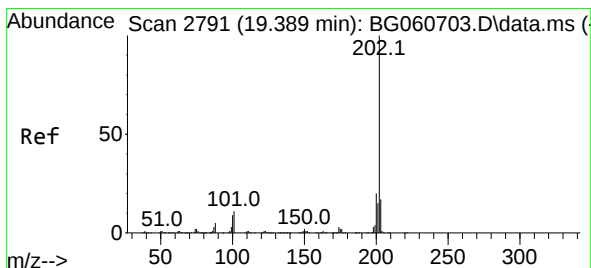
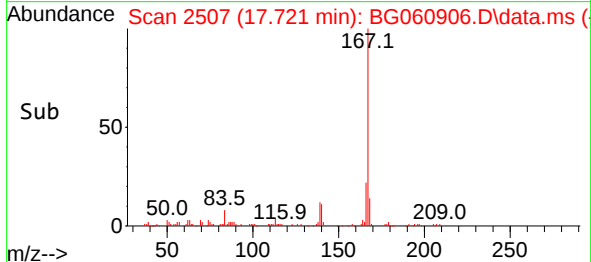
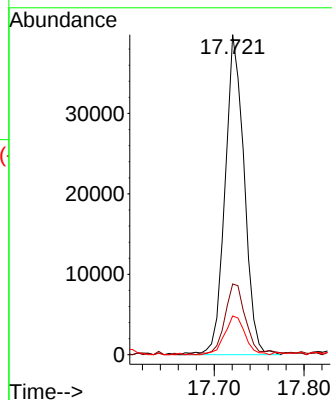
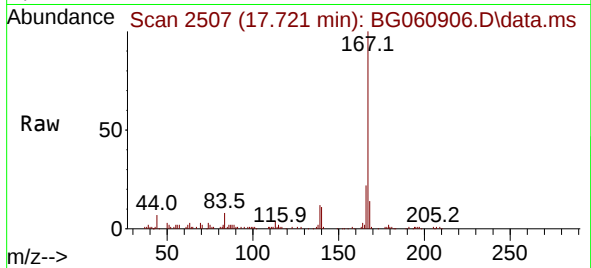




#73
 Carbazole
 Concen: 3.034 ng
 RT: 17.721 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BG060906.D
 Acq: 15 Apr 2024 18:31

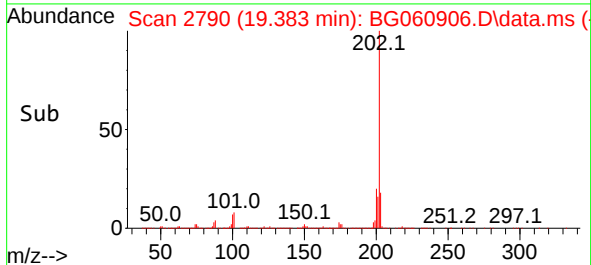
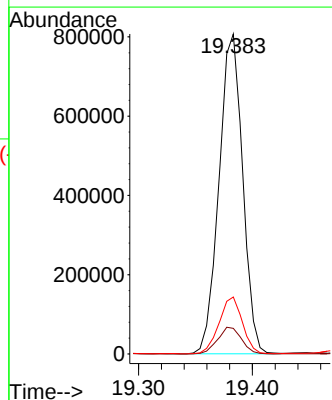
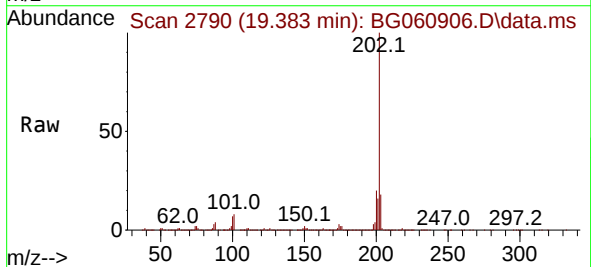
Instrument :
 BNA_G
 ClientSampleId :
 OR-02-041124DL

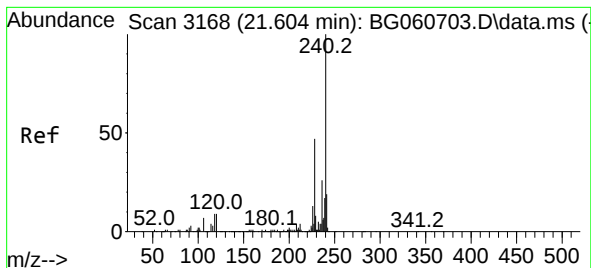
Tgt Ion:167 Resp: 58815
 Ion Ratio Lower Upper
 167 100
 166 22.1 18.0 27.0
 139 12.1 10.5 15.7



#75
 Fluoranthene
 Concen: 44.355 ng
 RT: 19.383 min Scan# 2790
 Delta R.T. -0.006 min
 Lab File: BG060906.D
 Acq: 15 Apr 2024 18:31

Tgt Ion:202 Resp: 1165235
 Ion Ratio Lower Upper
 202 100
 101 8.0 0.0 30.8
 203 17.8 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.587 min Scan# 31

Delta R.T. -0.018 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL

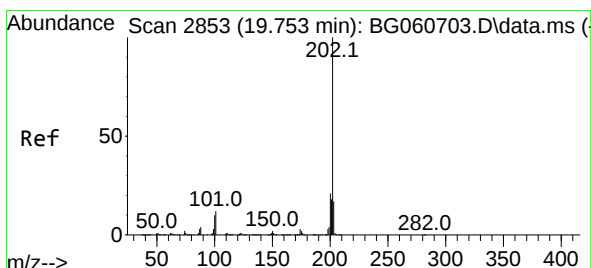
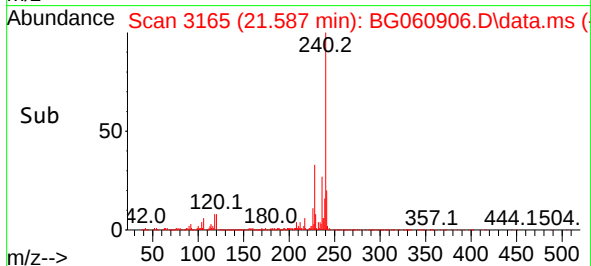
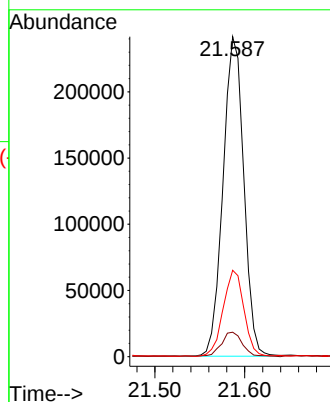
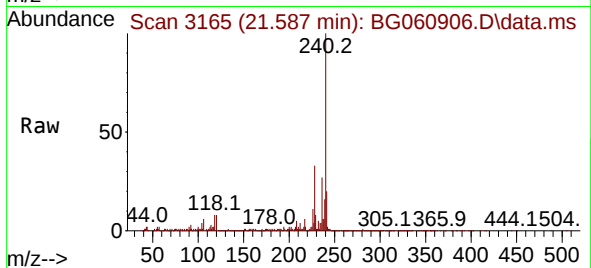
Tgt Ion:240 Resp: 387191

Ion Ratio Lower Upper

240 100

120 7.7 7.1 10.7

236 27.0 20.7 31.1



#78

Pyrene

Concen: 35.765 ng

RT: 19.742 min Scan# 2851

Delta R.T. -0.012 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

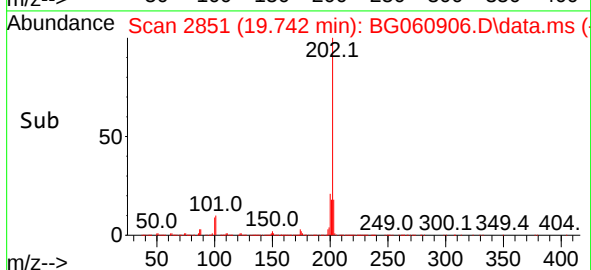
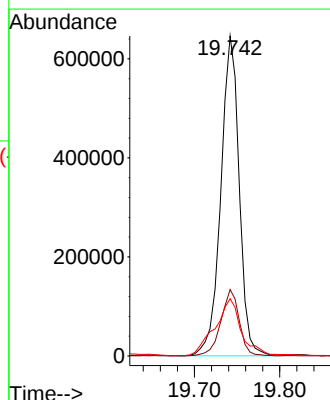
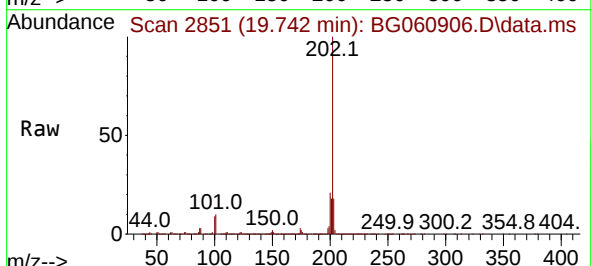
Tgt Ion:202 Resp: 968492

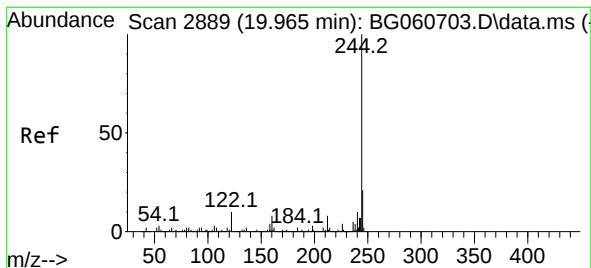
Ion Ratio Lower Upper

202 100

200 20.7 17.0 25.4

203 17.9 14.0 21.0





#79

Terphenyl-d14

Concen: 5.673 ng

RT: 19.947 min Scan# 21

Delta R.T. -0.018 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL

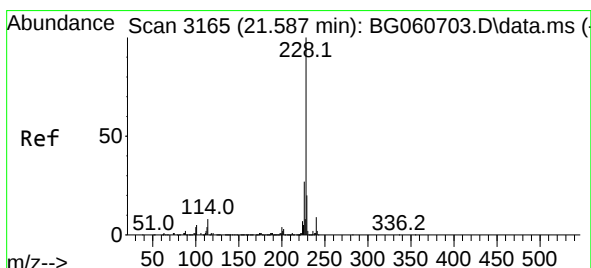
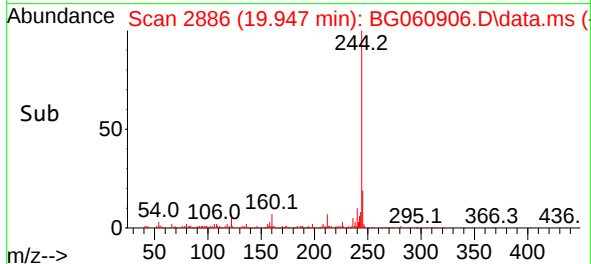
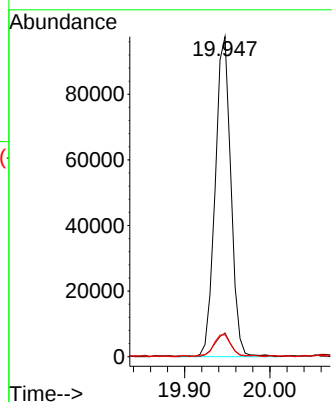
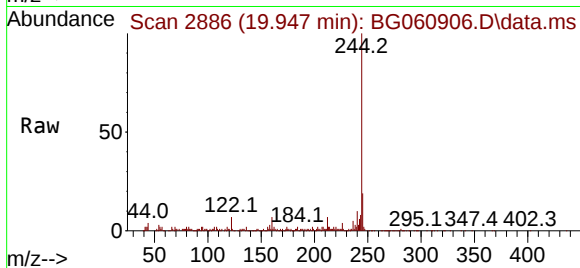
Tgt Ion:244 Resp: 124747

Ion Ratio Lower Upper

244 100

212 7.4 6.2 9.2

122 6.9 7.8 11.8#



#81

Benzo(a)anthracene

Concen: 19.867 ng

RT: 21.569 min Scan# 3162

Delta R.T. -0.018 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

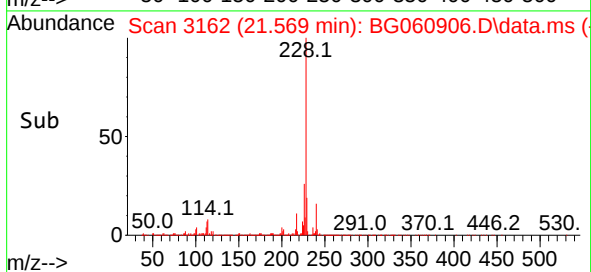
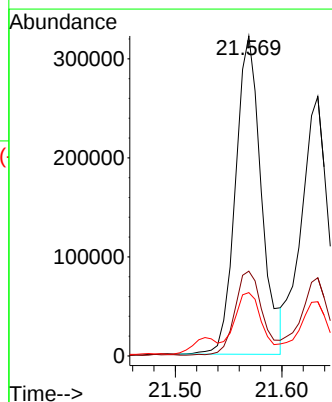
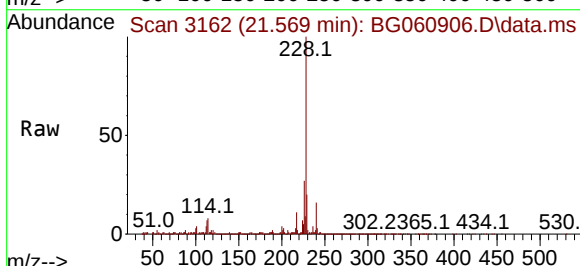
Tgt Ion:228 Resp: 542239

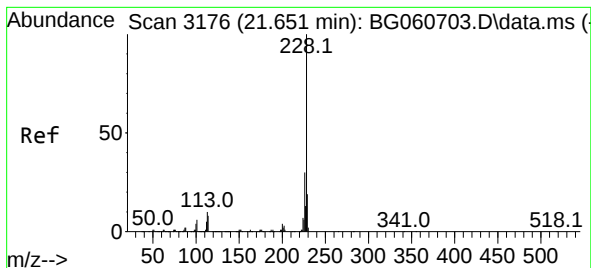
Ion Ratio Lower Upper

228 100

226 26.5 21.7 32.5

229 19.8 15.8 23.8





#83

Chrysene

Concen: 17.135 ng

RT: 21.634 min Scan# 31

Delta R.T. -0.018 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL

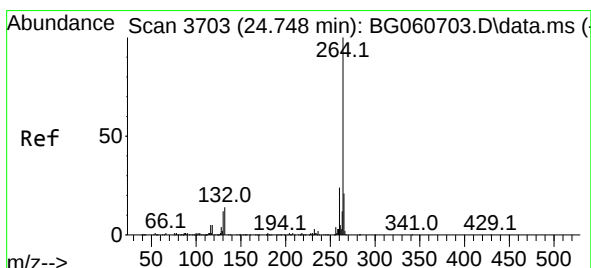
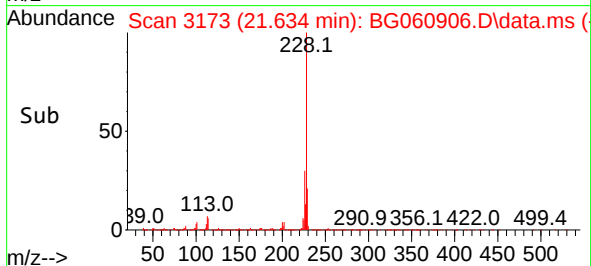
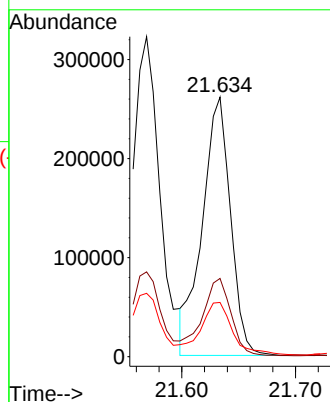
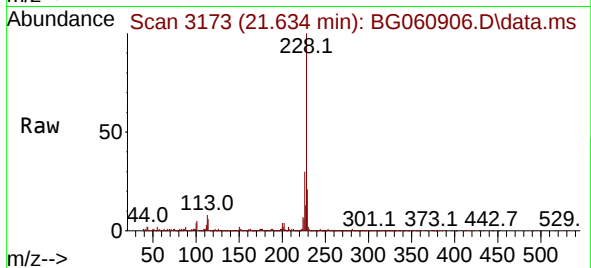
Tgt Ion:228 Resp: 450752

Ion Ratio Lower Upper

228 100

226 30.2 24.2 36.4

229 20.9 15.5 23.3



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.724 min Scan# 3699

Delta R.T. -0.024 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

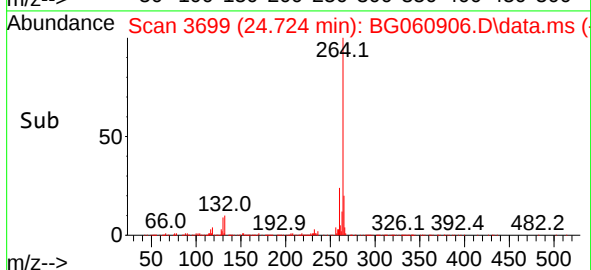
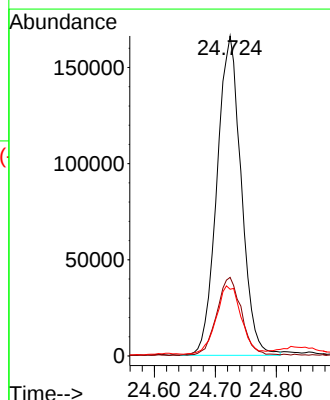
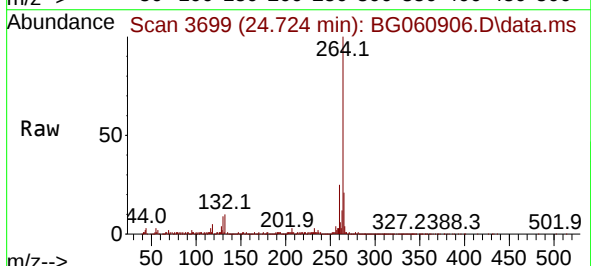
Tgt Ion:264 Resp: 458777

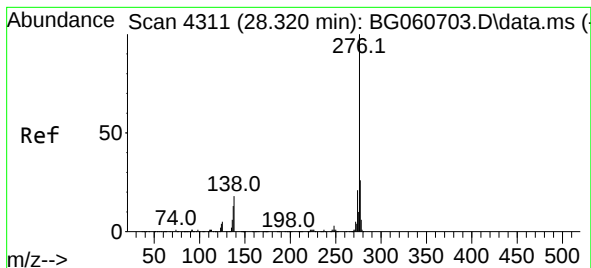
Ion Ratio Lower Upper

264 100

260 24.6 19.5 29.3

265 20.8 16.9 25.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.494 ng

RT: 28.273 min Scan# 41

Delta R.T. -0.047 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL

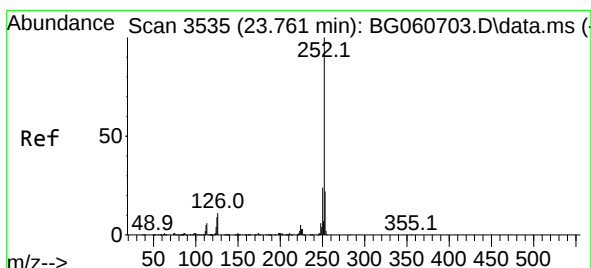
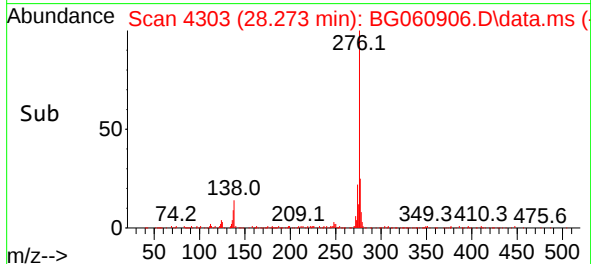
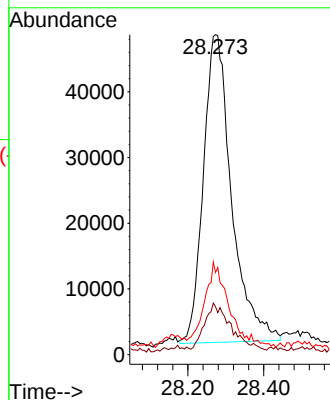
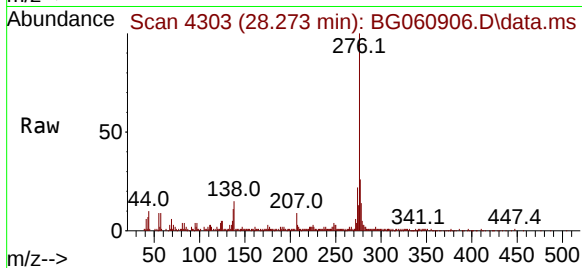
Tgt Ion:276 Resp: 242119

Ion Ratio Lower Upper

276 100

138 13.0 12.4 18.6

277 24.3 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 20.617 ng

RT: 23.737 min Scan# 3531

Delta R.T. -0.024 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

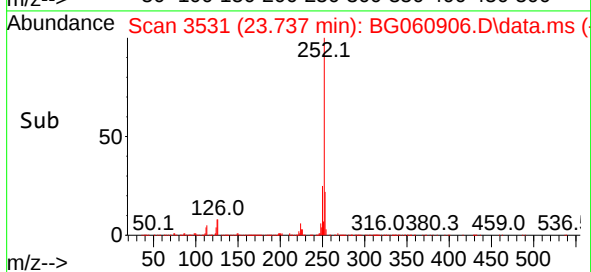
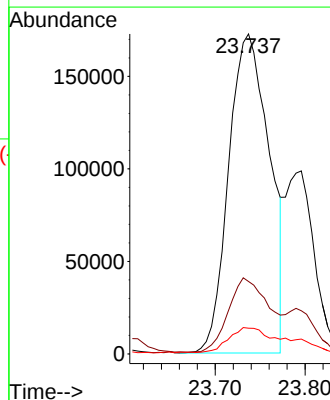
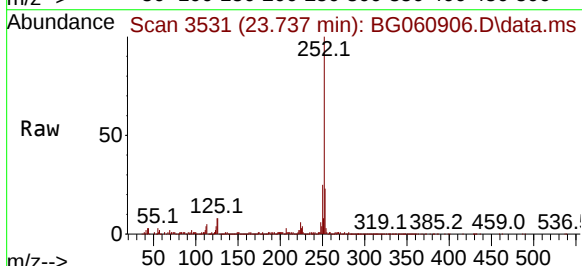
Tgt Ion:252 Resp: 543382

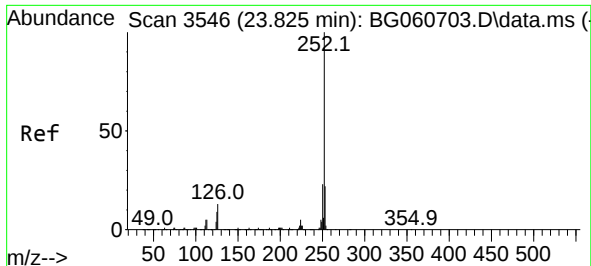
Ion Ratio Lower Upper

252 100

253 22.6 17.8 26.8

125 8.1 7.1 10.7

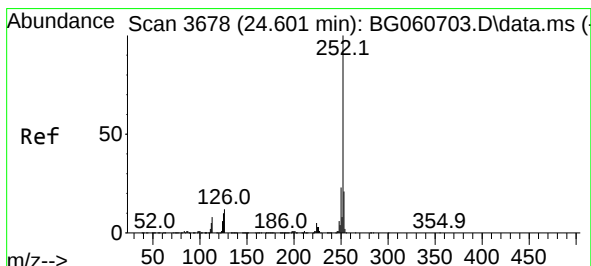
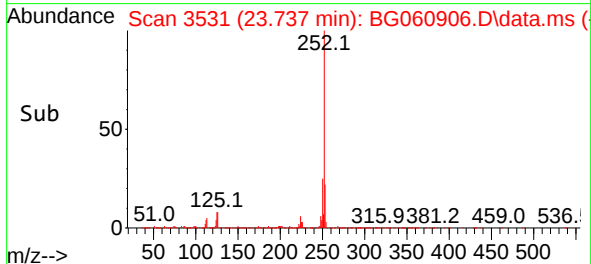
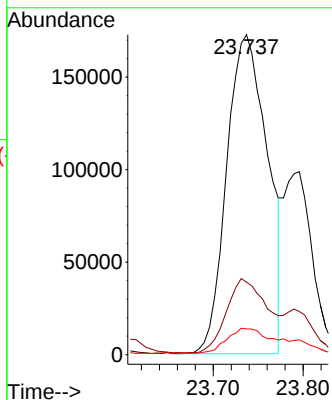
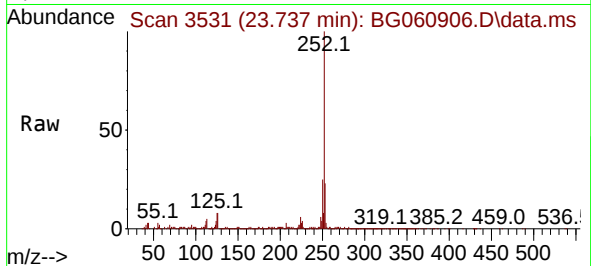




#89
Benzo(k)fluoranthene
Concen: 20.142 ng
RT: 23.737 min Scan# 31
Delta R.T. -0.088 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

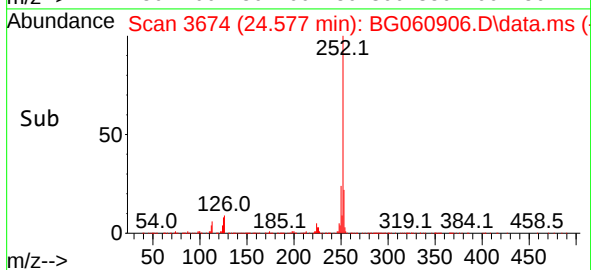
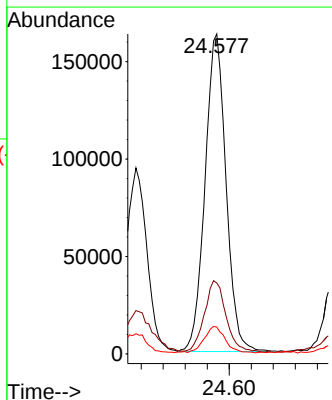
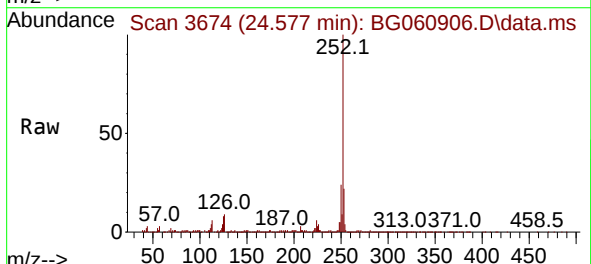
Instrument :
BNA_G
ClientSampleId :
OR-02-041124DL

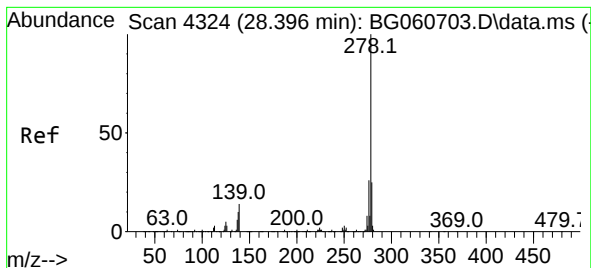
Tgt Ion:252 Resp: 543382
Ion Ratio Lower Upper
252 100
253 22.6 17.6 26.4
125 8.1 7.5 11.3



#90
Benzo(a)pyrene
Concen: 16.883 ng
RT: 24.577 min Scan# 3674
Delta R.T. -0.024 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Tgt Ion:252 Resp: 432443
Ion Ratio Lower Upper
252 100
253 22.2 16.8 25.2
125 8.4 7.6 11.4





#91

Dibenzo(a,h)anthracene

Concen: 2.152 ng

RT: 28.326 min Scan# 41

Delta R.T. -0.071 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL

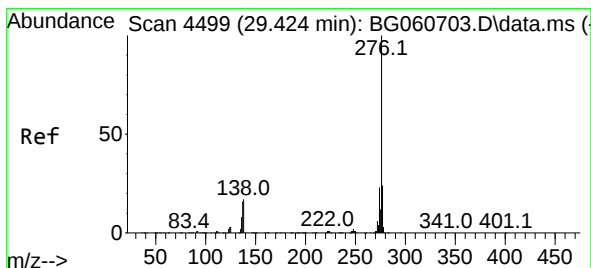
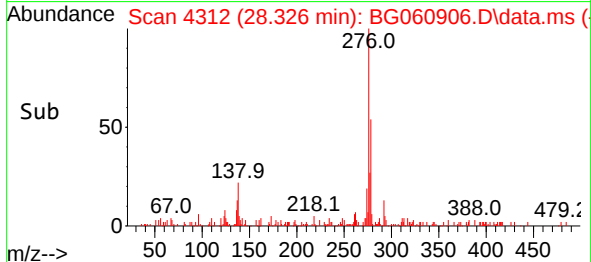
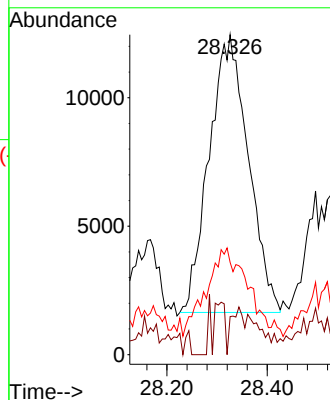
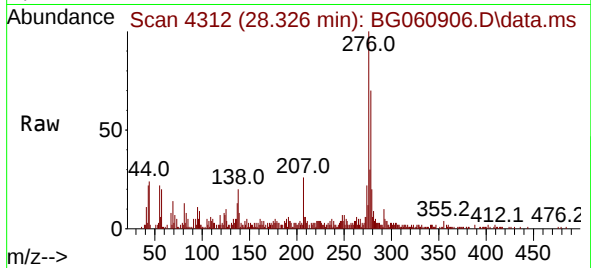
Tgt Ion:278 Resp: 58610

Ion Ratio Lower Upper

278 100

139 11.9 11.1 16.7

279 28.8 19.8 29.6



#92

Benzo(g,h,i)perylene

Concen: 8.627 ng

RT: 29.383 min Scan# 4492

Delta R.T. -0.041 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

Tgt Ion:276 Resp: 228544

Ion Ratio Lower Upper

276 100

277 22.7 18.9 28.3

138 16.0 14.0 21.0

