

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG081423\
 Data File : BG058719.D
 Acq On : 14 Aug 2023 12:31
 Operator : MA/JU
 Sample : 03958-05DL 10X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 NEVINS-SB02-Z37-39DL

Quant Time: Aug 14 13:05:09 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 28 22:29:07 2023
 Response via : Initial Calibration

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

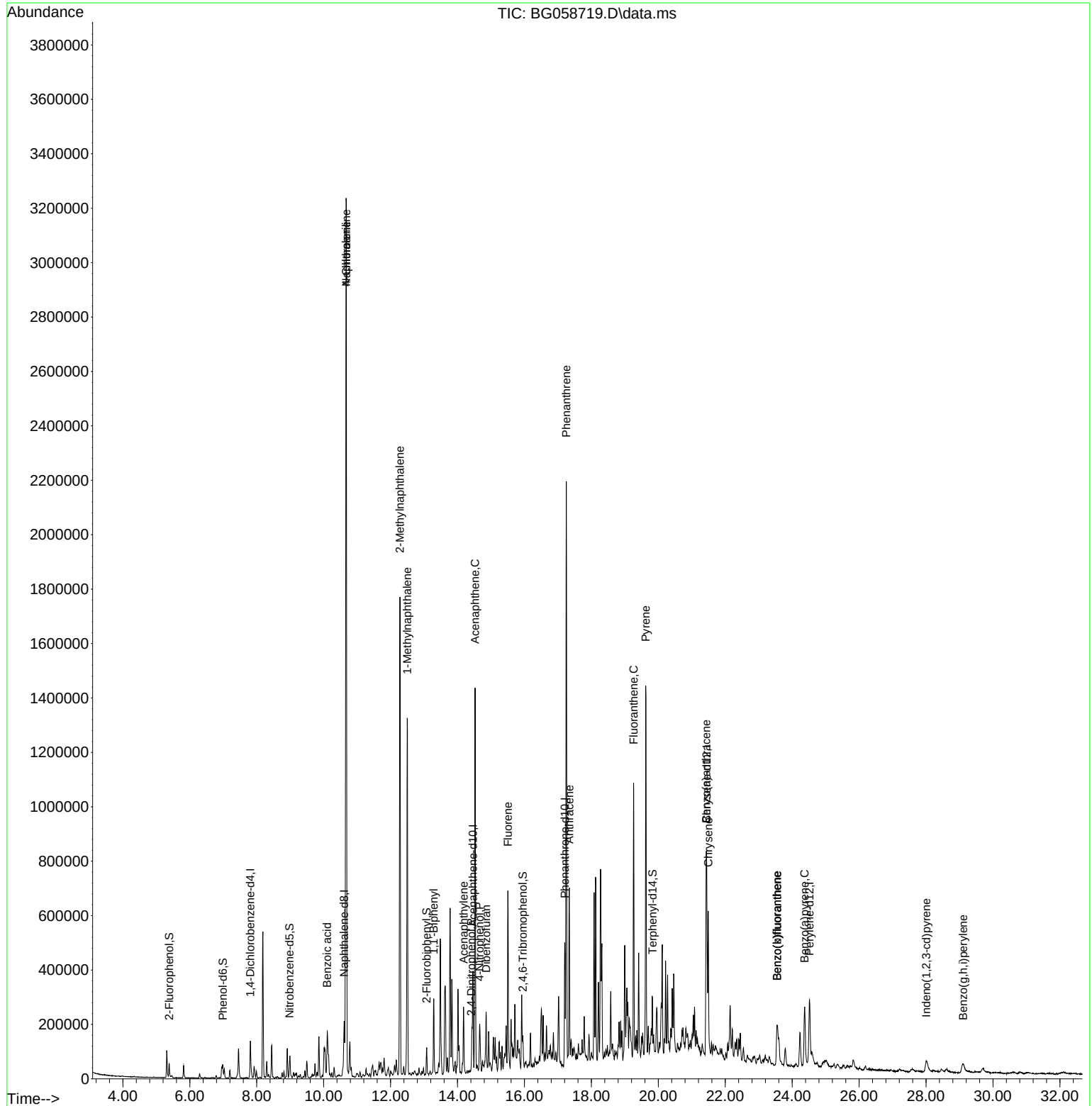
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.808	152	40700	20.000	ng	0.00
21) Naphthalene-d8	10.610	136	177475	20.000	ng	0.00
39) Acenaphthene-d10	14.459	164	131107	20.000	ng	0.00
64) Phenanthrene-d10	17.203	188	295220	20.000	ng	0.00
76) Chrysene-d12	21.445	240	253603	20.000	ng	0.00
86) Perylene-d12	24.518	264	305937	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.387	112	24245	9.105	ng	0.00
7) Phenol-d6	6.985	99	33609	9.071	ng	0.00
23) Nitrobenzene-d5	8.977	82	20659	5.718	ng	0.00
42) 2,4,6-Tribromophenol	15.951	330	13316	6.197	ng	0.00
45) 2-Fluorobiphenyl	13.078	172	52634	6.016	ng	0.00
79) Terphenyl-d14	19.823	244	88934	6.595	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.675	128	2760178	295.081	ng	96
32) Benzoic acid	10.105	122	63	4.590	ng	# 1
33) 4-Chloroaniline	10.669	127	406974	102.977	ng	# 31
37) 2-Methylnaphthalene	12.279	142	880864	131.648	ng	96
38) 1-Methylnaphthalene	12.496	142	633060	99.532	ng	99
46) 1,1'-Biphenyl	13.290	154	145172	16.123	ng	99
49) Acenaphthylene	14.183	152	70880	6.031	ng	# 85
52) Acenaphthene	14.523	154	497628	73.273	ng	98
54) 2,4-Dinitrophenol	14.412	184	62	7.531	ng	# 1
55) Dibenzofuran	14.858	168	43167	3.699	ng	# 82
56) 4-Nitrophenol	14.659	139	7963	8.090	ng	# 24
58) Fluorene	15.505	166	301560	32.528	ng	99
71) Phenanthrene	17.250	178	1338673	95.615	ng	98
72) Anthracene	17.338	178	408974	28.469	ng	99
75) Fluoranthene	19.265	202	597985	35.557	ng	100
78) Pyrene	19.623	202	860984	49.886	ng	99
81) Benzo(a)anthracene	21.427	228	413693	23.704	ng	95
83) Chrysene	21.492	228	366169	21.882	ng	97
87) Indeno(1,2,3-cd)pyrene	28.008	276	81029	3.981	ng	# 84
88) Benzo(b)fluoranthene	23.548	252	220219	13.272	ng	# 94
89) Benzo(k)fluoranthene	23.548	252	219922	13.193	ng	94
90) Benzo(a)pyrene	24.371	252	285668	17.530	ng	98
92) Benzo(g,h,i)perylene	29.106	276	85838	5.087	ng	98

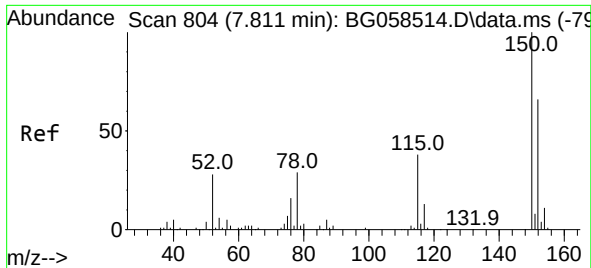
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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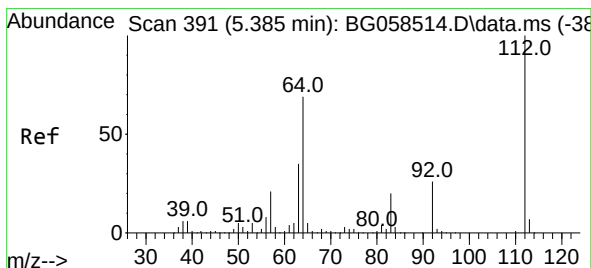
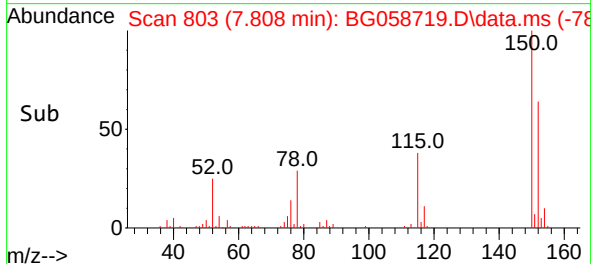
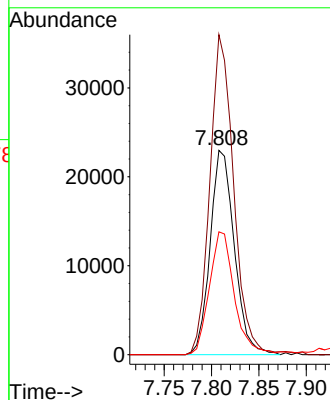
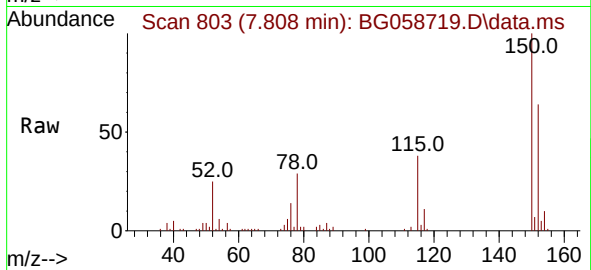




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.808 min Scan# 804
Delta R.T. -0.003 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

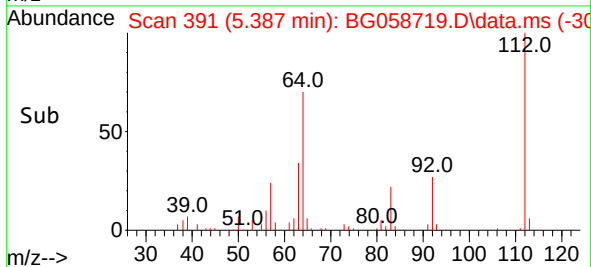
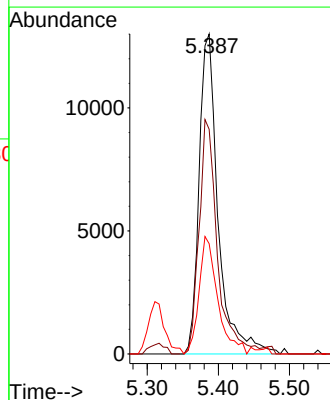
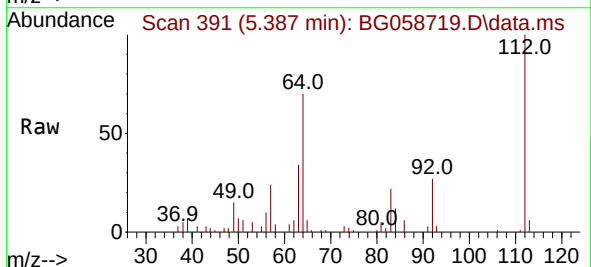
Instrument :
BNA_G
ClientSampleId :
NEVINS-SB02-Z37-39DL

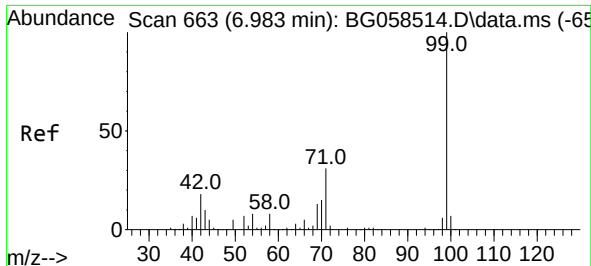
Tgt Ion:152 Resp: 40700
Ion Ratio Lower Upper
152 100
150 156.6 120.5 180.7
115 60.1 45.9 68.9



#5
2-Fluorophenol
Concen: 9.105 ng
RT: 5.387 min Scan# 391
Delta R.T. 0.002 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

Tgt Ion:112 Resp: 24245
Ion Ratio Lower Upper
112 100
64 70.2 55.3 82.9
63 34.4 28.3 42.5

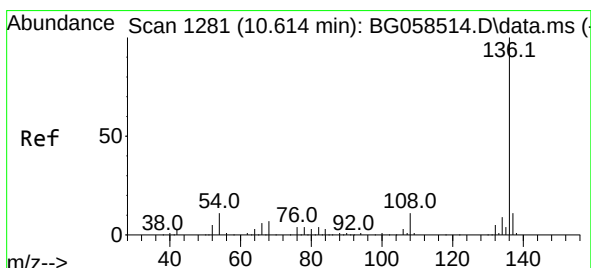
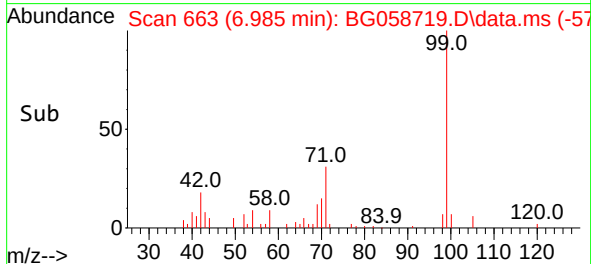
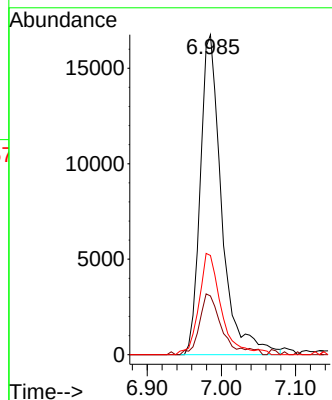
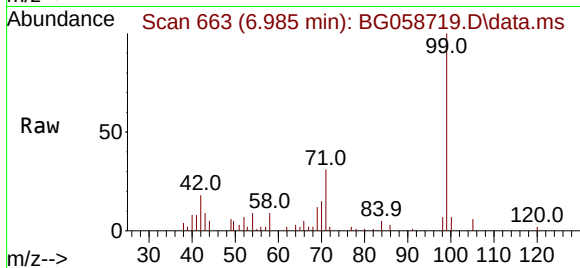




#7
Phenol-d6
Concen: 9.071 ng
RT: 6.985 min Scan# 60
Delta R.T. 0.002 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

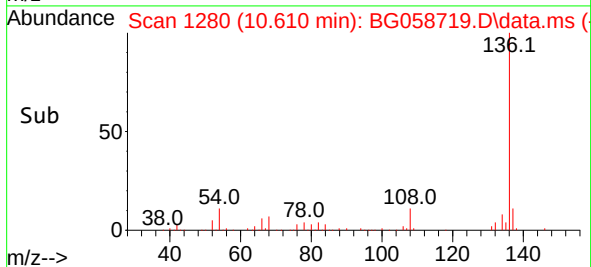
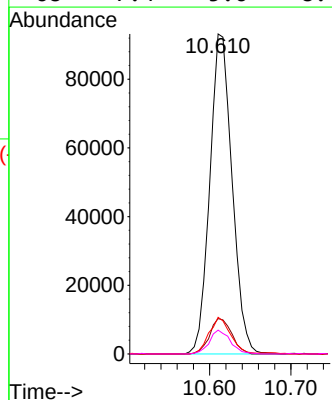
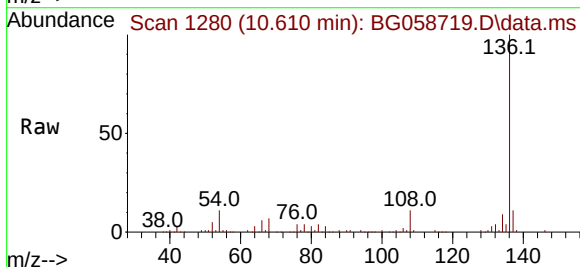
Instrument :
BNA_G
ClientSampleId :
NEVINS-SB02-Z37-39DL

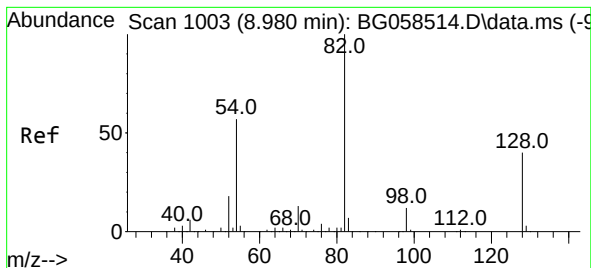
Tgt Ion:	99	Resp:	33609
Ion	Ratio	Lower	Upper
99	100		
42	18.4	14.6	21.8
71	31.0	25.0	37.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.610 min Scan# 1280
Delta R.T. -0.003 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

Tgt Ion:	136	Resp:	177475
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	11.4	8.9	13.3
68	7.4	5.6	8.4





#23

Nitrobenzene-d5

Concen: 5.718 ng

RT: 8.977 min Scan# 1002

Delta R.T. -0.003 min

Lab File: BG058719.D

Acq: 14 Aug 2023 12:31

Instrument :

BNA_G

ClientSampleId :

NEVINS-SB02-Z37-39DL

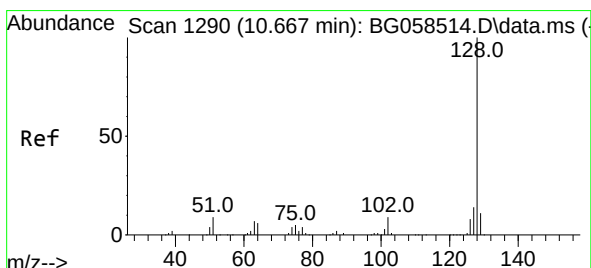
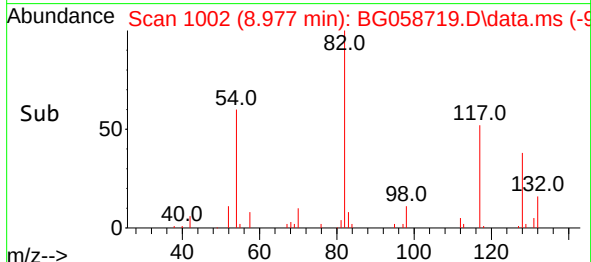
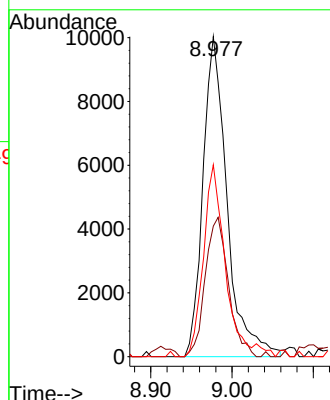
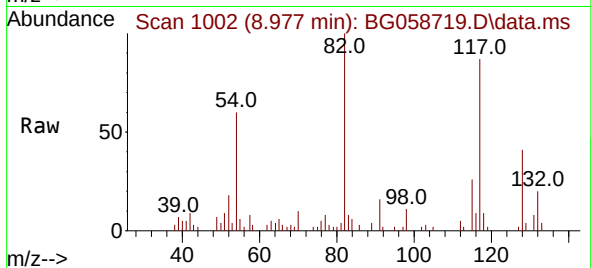
Tgt Ion: 82 Resp: 20659

Ion Ratio Lower Upper

82 100

128 40.8 32.2 48.2

54 60.0 46.0 69.0



#31

Naphthalene

Concen: 295.081 ng

RT: 10.675 min Scan# 1291

Delta R.T. 0.008 min

Lab File: BG058719.D

Acq: 14 Aug 2023 12:31

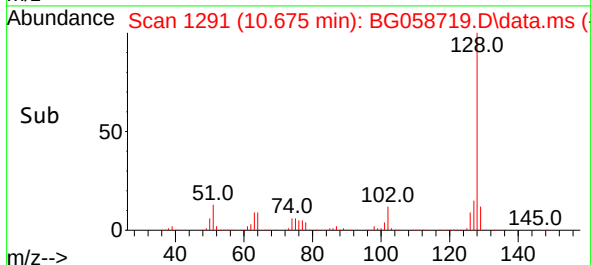
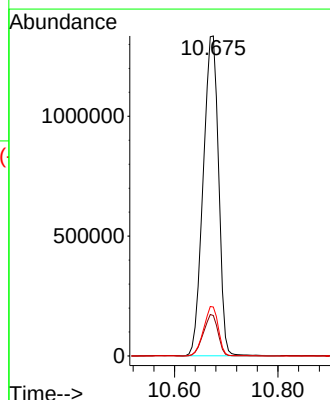
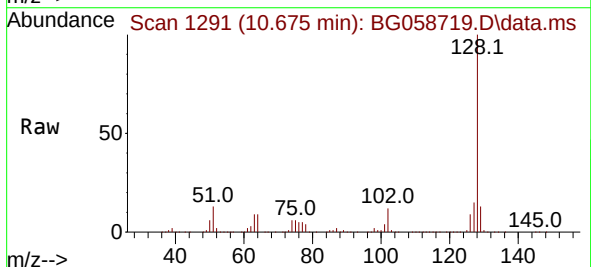
Tgt Ion:128 Resp: 2760178

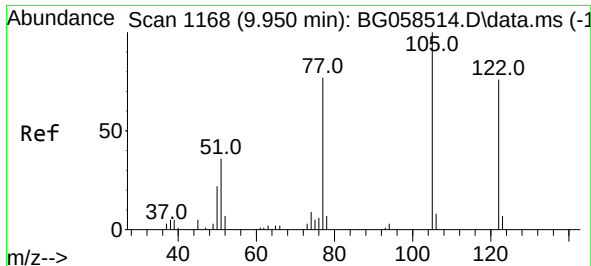
Ion Ratio Lower Upper

128 100

129 12.7 8.8 13.2

127 15.3 10.9 16.3





#32

Benzoic acid

Concen: 4.590 ng

RT: 10.105 min Scan# 1168

Delta R.T. 0.155 min

Lab File: BG058719.D

Acq: 14 Aug 2023 12:31

Instrument :

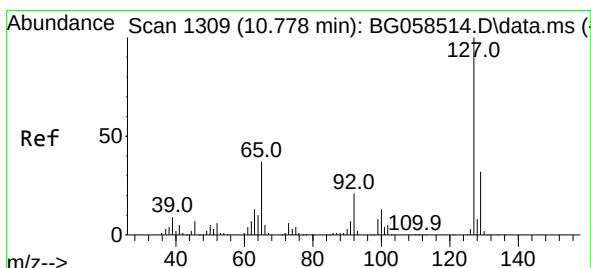
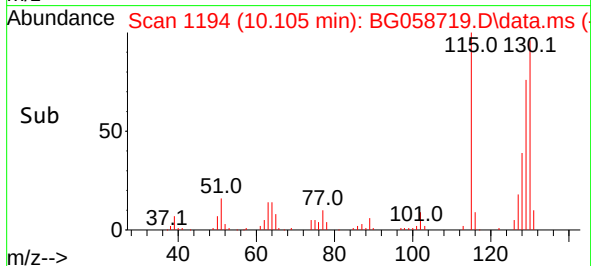
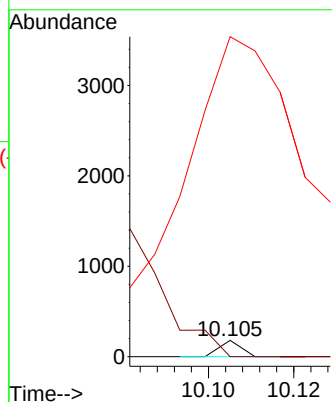
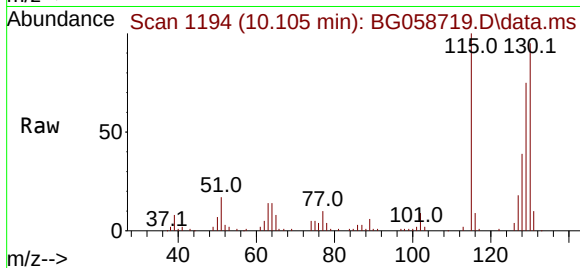
BNA_G

ClientSampleId :

NEVINS-SB02-Z37-39DL

Tgt Ion:122 Resp: 63

Ion	Ratio	Lower	Upper
122	100		
105	0.0	106.5	146.5#
77	1966.1	78.1	118.1#



#33

4-Chloroaniline

Concen: 102.977 ng

RT: 10.669 min Scan# 1290

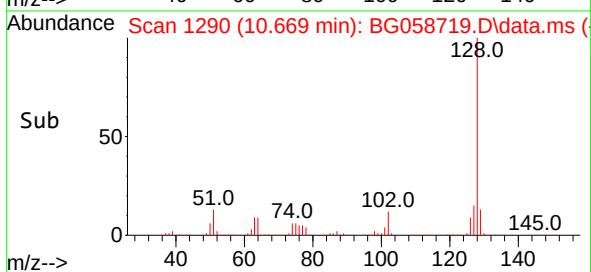
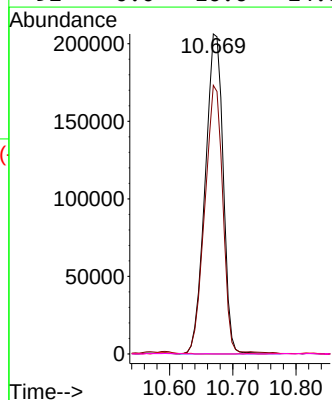
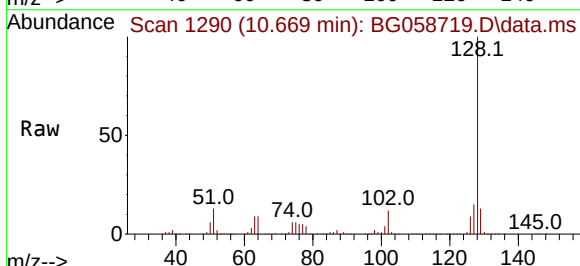
Delta R.T. -0.109 min

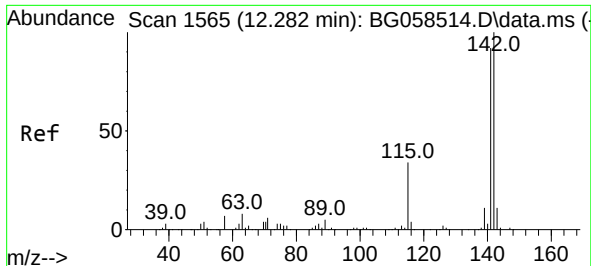
Lab File: BG058719.D

Acq: 14 Aug 2023 12:31

Tgt Ion:127 Resp: 406974

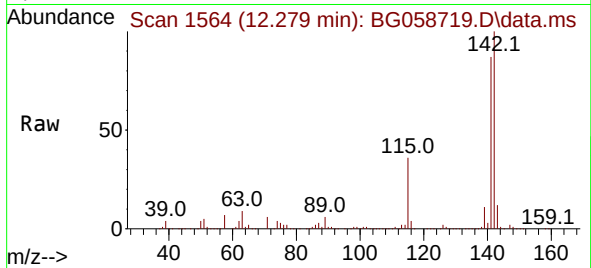
Ion	Ratio	Lower	Upper
127	100		
129	83.9	25.4	38.2#
65	0.0	29.5	44.3#
92	0.0	16.6	24.8#



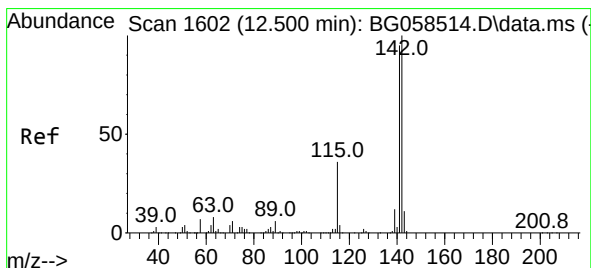
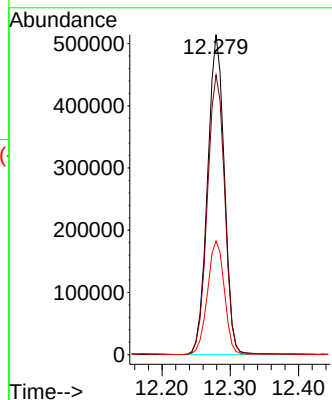
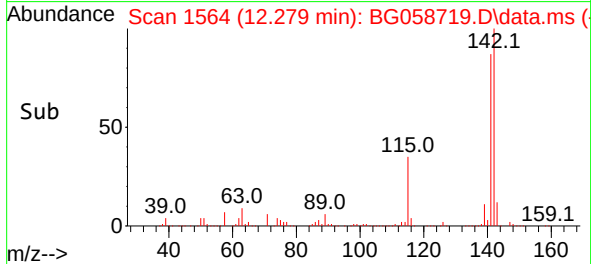


#37
2-Methylnaphthalene
Concen: 131.648 ng
RT: 12.279 min Scan# 11
Delta R.T. -0.003 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

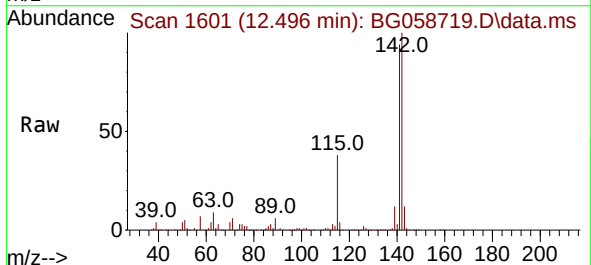
Instrument :
BNA_G
ClientSampleId :
NEVINS-SB02-Z37-39DL



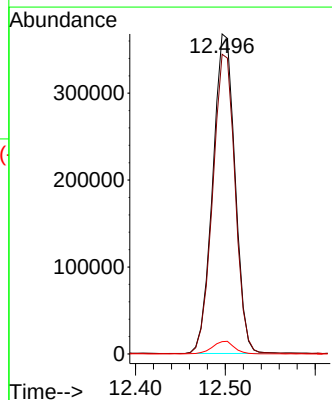
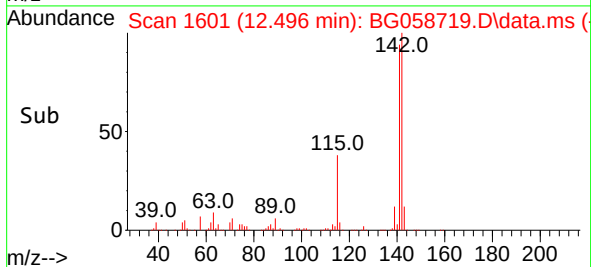
Tgt Ion:142 Resp: 880864
Ion Ratio Lower Upper
142 100
141 87.4 73.5 110.3
115 35.6 27.4 41.0

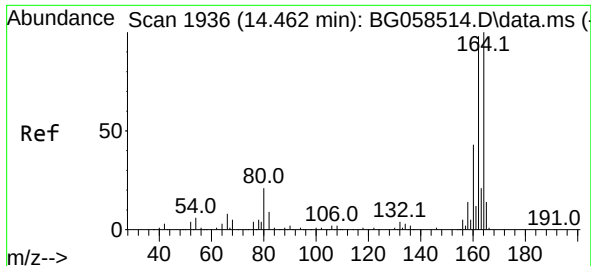


#38
1-Methylnaphthalene
Concen: 99.532 ng
RT: 12.496 min Scan# 1601
Delta R.T. -0.003 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31



Tgt Ion:142 Resp: 633060
Ion Ratio Lower Upper
142 100
141 93.6 75.7 113.5
116 3.9 3.2 4.8

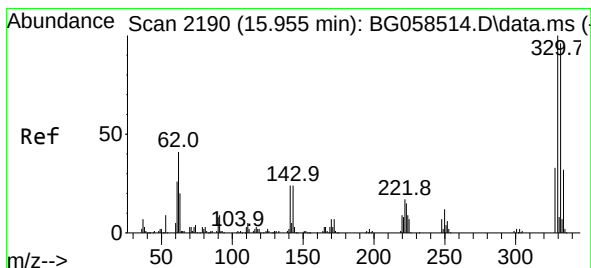
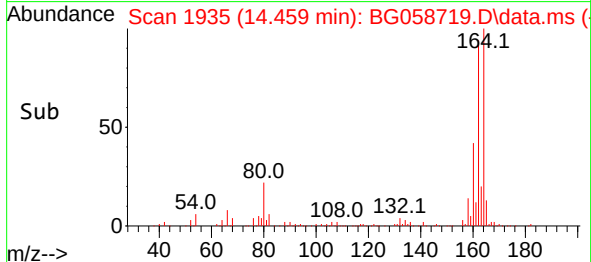
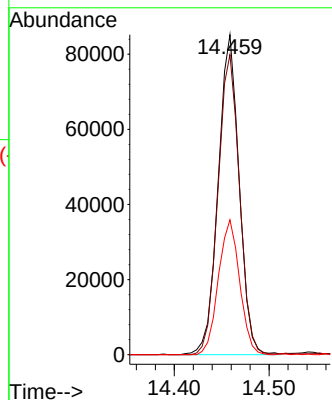
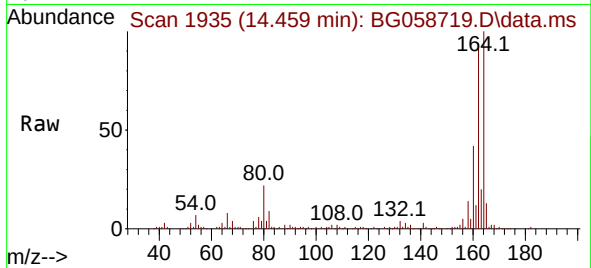




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.459 min Scan# 1935
Delta R.T. -0.003 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

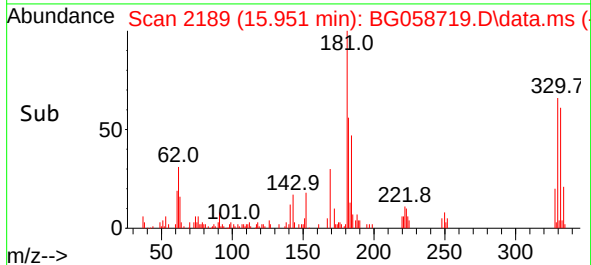
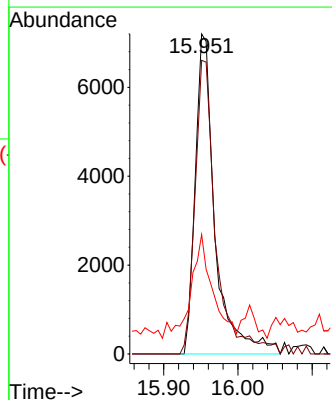
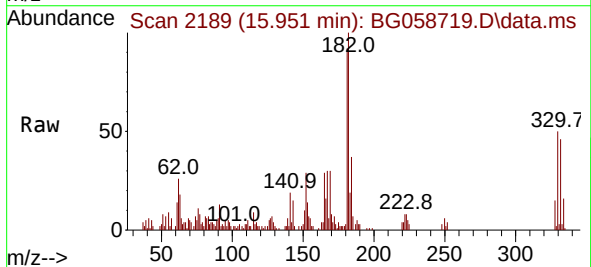
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NEVINS-SB02-Z37-39DL

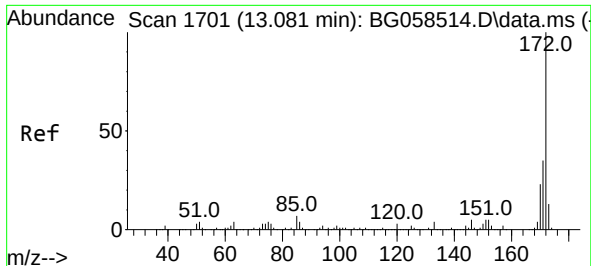
Tgt Ion:164 Resp: 131107
Ion Ratio Lower Upper
164 100
162 93.8 78.3 117.5
160 42.1 34.1 51.1



#42
2,4,6-Tribromophenol
Concen: 6.197 ng
RT: 15.951 min Scan# 2189
Delta R.T. -0.003 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

Tgt Ion:330 Resp: 13316
Ion Ratio Lower Upper
330 100
332 96.6 77.5 116.3
141 35.4 20.7 31.1#

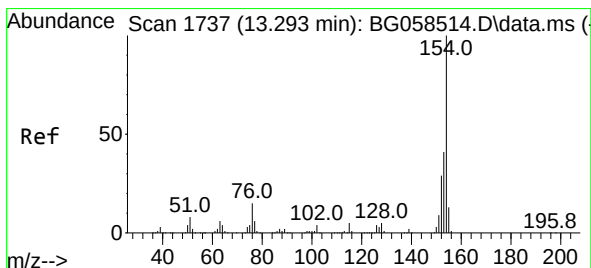
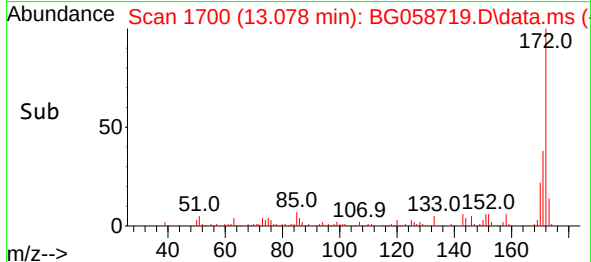
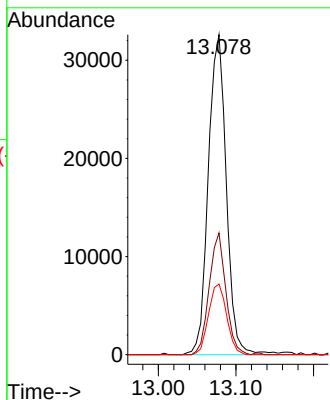
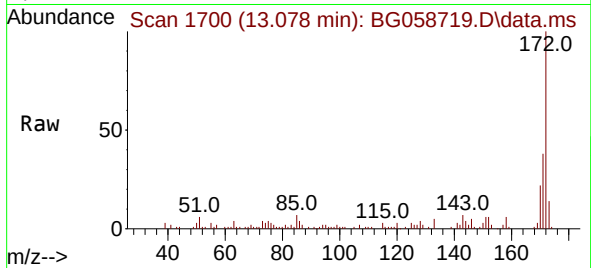




#45
2-Fluorobiphenyl
Concen: 6.016 ng
RT: 13.078 min Scan# 1700
Delta R.T. -0.003 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

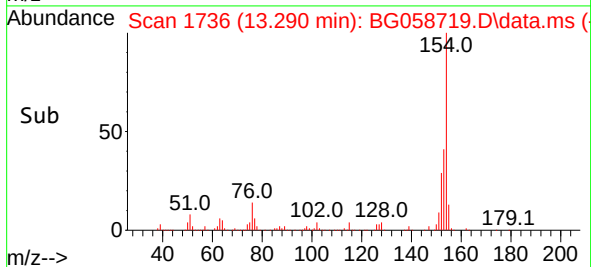
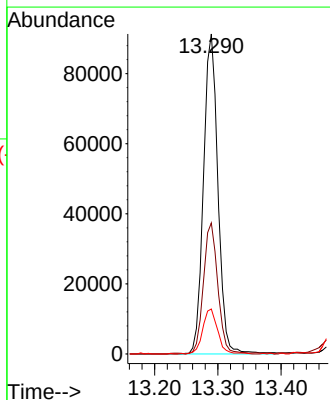
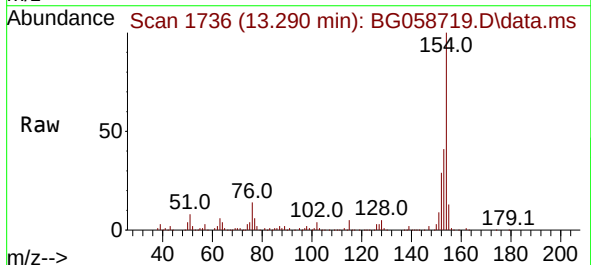
Instrument :
BNA_G
ClientSampleId :
NEVINS-SB02-Z37-39DL

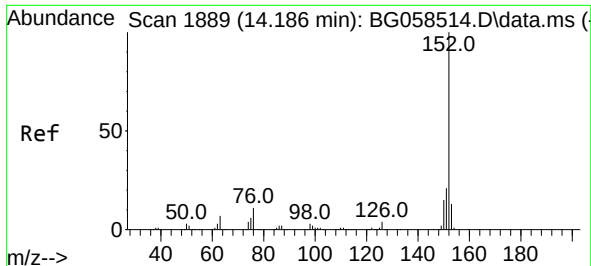
Tgt Ion:172	Resp:	52634	
Ion	Ratio	Lower	Upper
172	100		
171	38.0	28.0	42.0
170	22.1	18.4	27.6



#46
1,1'-Biphenyl
Concen: 16.123 ng
RT: 13.290 min Scan# 1736
Delta R.T. -0.003 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

Tgt Ion:154	Resp:	145172	
Ion	Ratio	Lower	Upper
154	100		
153	41.0	21.2	61.2
76	14.0	0.0	34.7





#49

Acenaphthylene

Concen: 6.031 ng

RT: 14.183 min Scan# 1889

Delta R.T. -0.003 min

Lab File: BG058719.D

Acq: 14 Aug 2023 12:31

Instrument :

BNA_G

ClientSampleId :

NEVINS-SB02-Z37-39DL

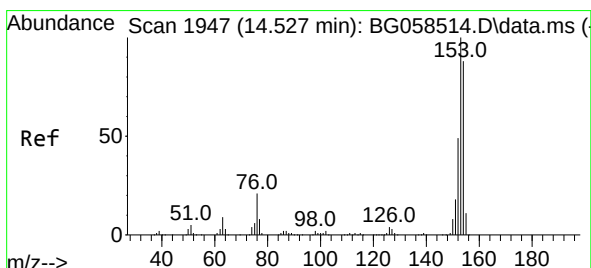
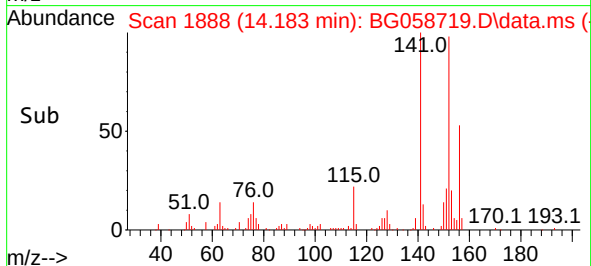
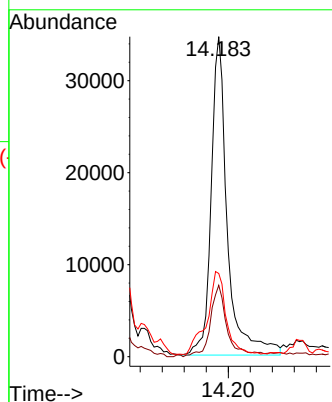
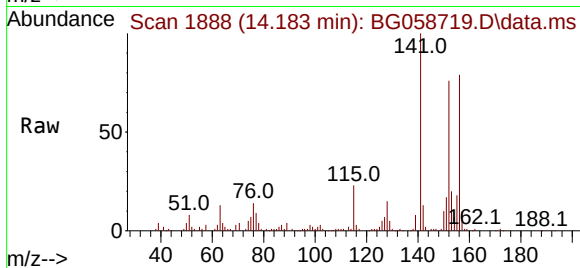
Tgt Ion:152 Resp: 70880

Ion Ratio Lower Upper

152 100

151 22.3 16.5 24.7

153 26.0 10.7 16.1#



#52

Acenaphthene

Concen: 73.273 ng

RT: 14.523 min Scan# 1946

Delta R.T. -0.003 min

Lab File: BG058719.D

Acq: 14 Aug 2023 12:31

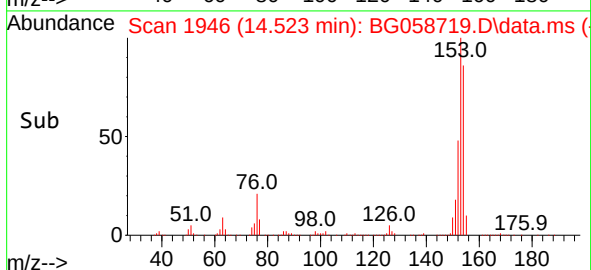
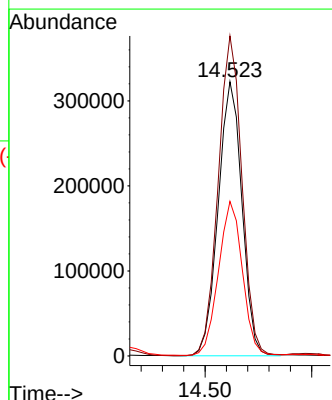
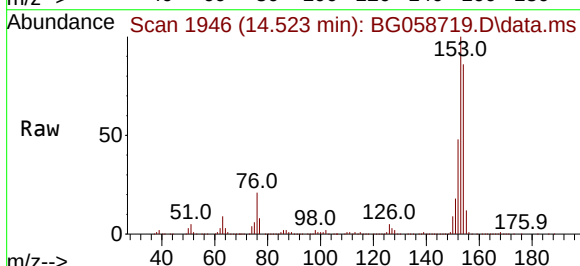
Tgt Ion:154 Resp: 497628

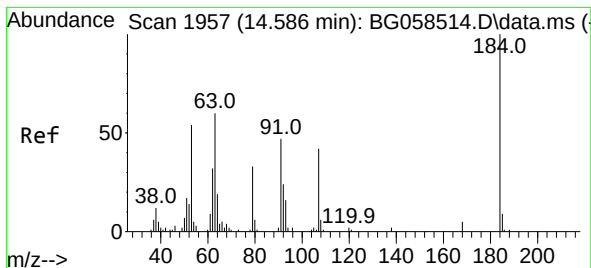
Ion Ratio Lower Upper

154 100

153 116.7 91.1 136.7

152 56.4 44.6 66.8

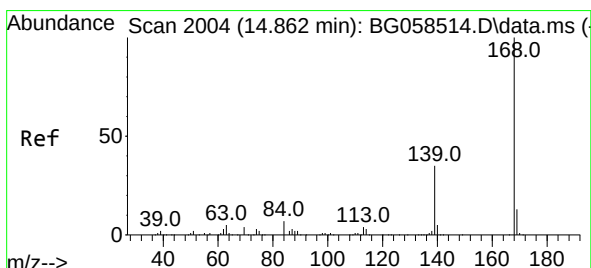
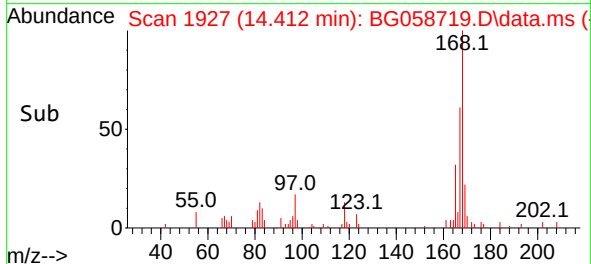
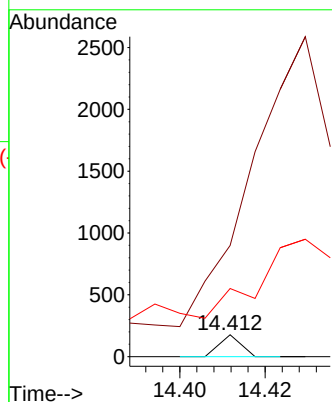
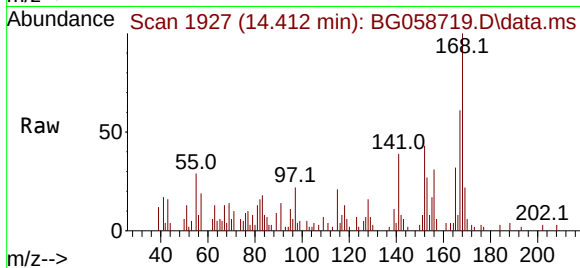




#54
2,4-Dinitrophenol
Concen: 7.531 ng
RT: 14.412 min Scan# 1957
Delta R.T. -0.174 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

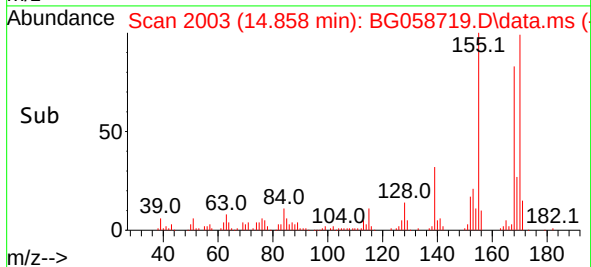
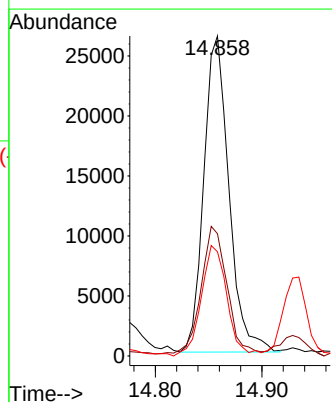
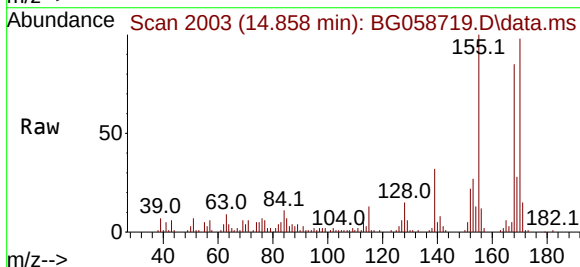
Instrument :
BNA_G
ClientSampleId :
NEVINS-SB02-Z37-39DL

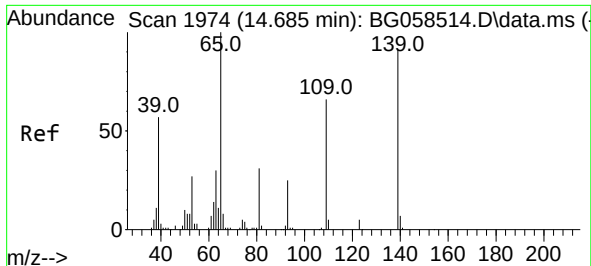
Tgt Ion:184 Resp: 62
Ion Ratio Lower Upper
184 100
63 507.9 56.7 85.1#
154 311.3 46.1 69.1#



#55
Dibenzofuran
Concen: 3.699 ng
RT: 14.858 min Scan# 2003
Delta R.T. -0.003 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

Tgt Ion:168 Resp: 43167
Ion Ratio Lower Upper
168 100
139 38.2 27.8 41.8
169 32.6 10.6 16.0#

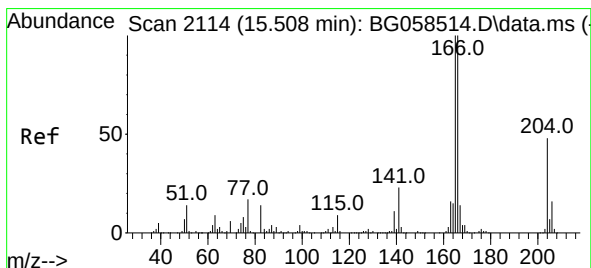
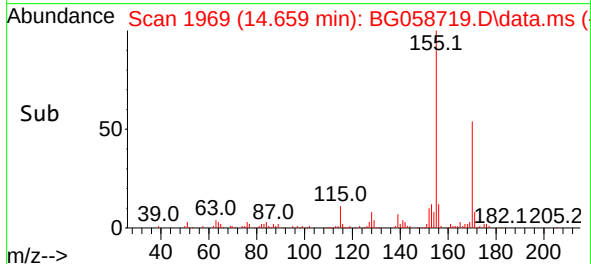
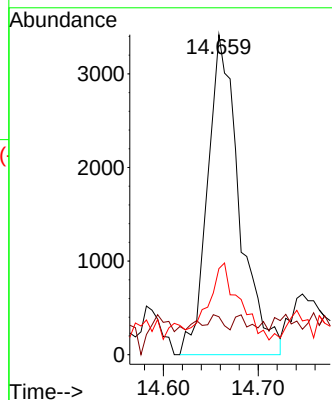
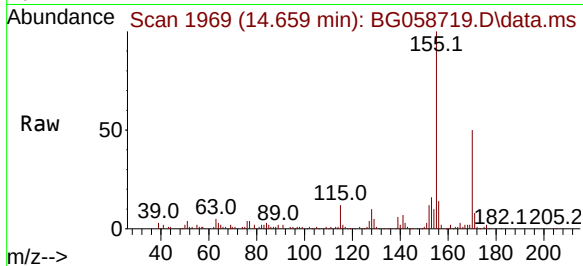




#56
4-Nitrophenol
Concen: 8.090 ng
RT: 14.659 min Scan# 1969
Delta R.T. -0.026 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

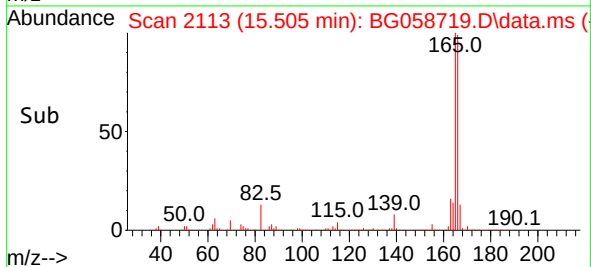
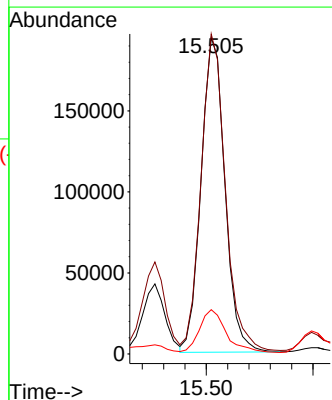
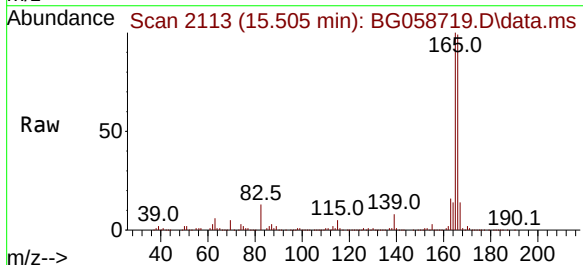
Instrument :
BNA_G
ClientSampleId :
NEVINS-SB02-Z37-39DL

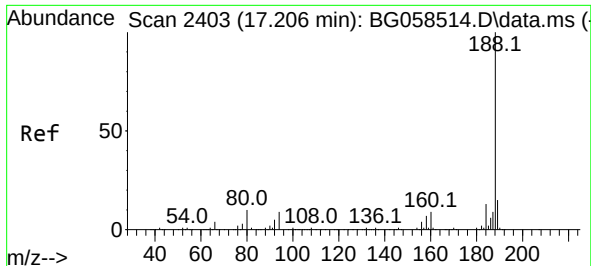
Tgt Ion:139 Resp: 7963
Ion Ratio Lower Upper
139 100
109 11.8 52.5 92.5#
65 26.9 90.5 130.5#



#58
Fluorene
Concen: 32.528 ng
RT: 15.505 min Scan# 2113
Delta R.T. -0.003 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

Tgt Ion:166 Resp: 301560
Ion Ratio Lower Upper
166 100
165 101.1 80.0 120.0
167 14.0 11.3 16.9

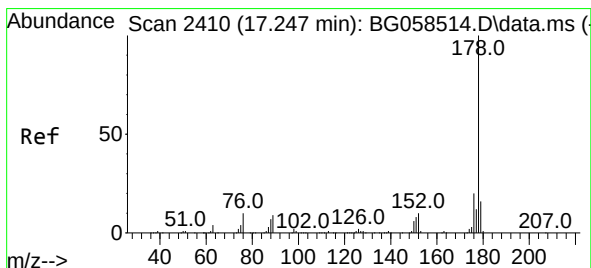
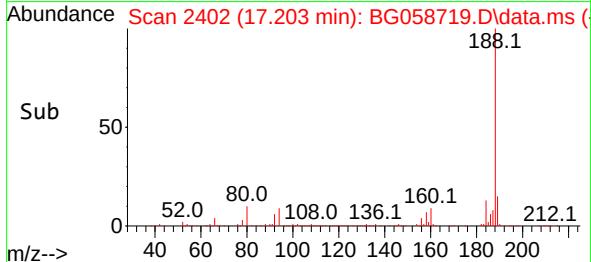
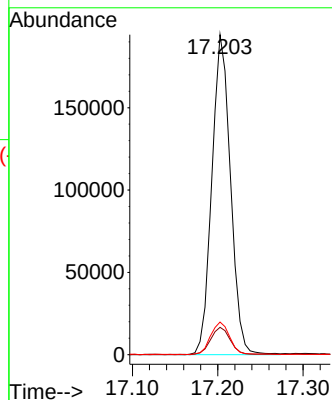
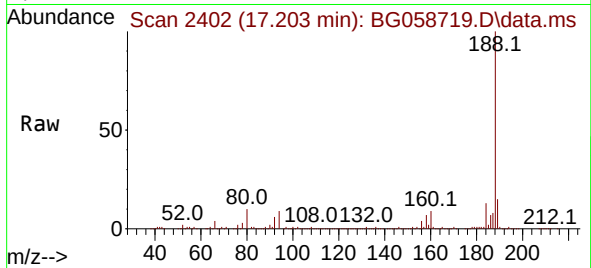




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.203 min Scan# 2403
Delta R.T. -0.003 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

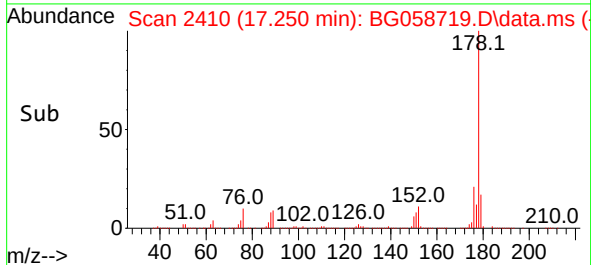
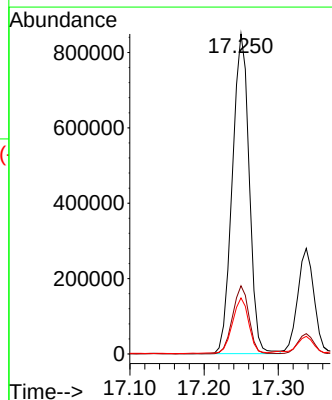
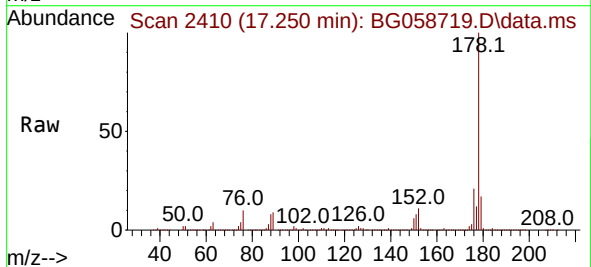
Instrument :
BNA_G
ClientSampleId :
NEVINS-SB02-Z37-39DL

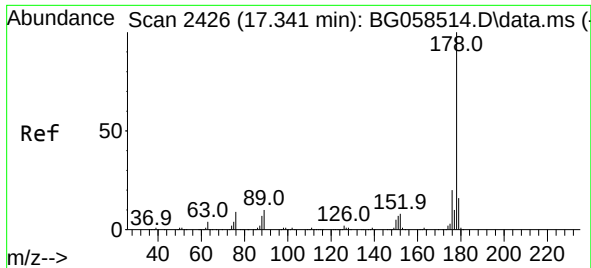
Tgt Ion:188 Resp: 295220
Ion Ratio Lower Upper
188 100
94 8.6 7.0 10.6
80 10.2 8.1 12.1



#71
Phenanthrene
Concen: 95.615 ng
RT: 17.250 min Scan# 2410
Delta R.T. 0.002 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

Tgt Ion:178 Resp: 1338673
Ion Ratio Lower Upper
178 100
176 21.3 16.3 24.5
179 17.5 13.1 19.7

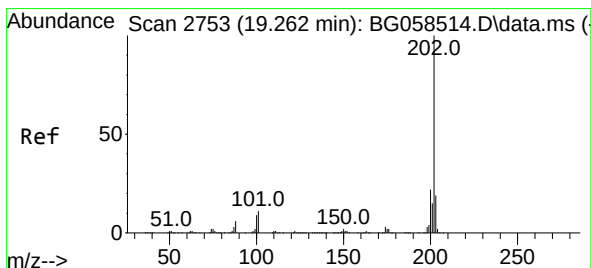
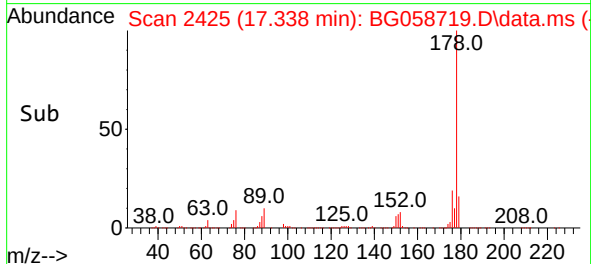
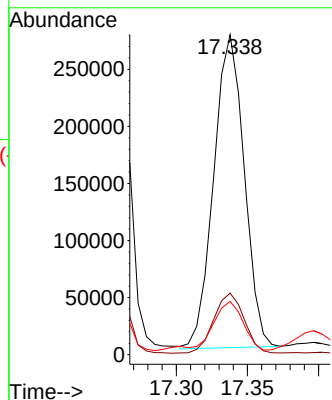
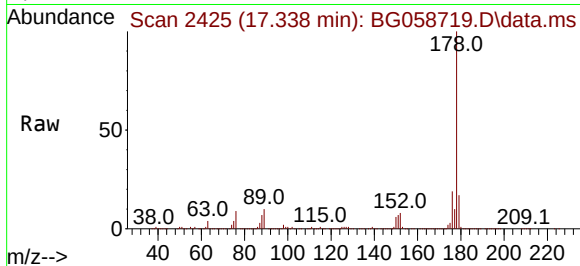




#72
 Anthracene
 Concen: 28.469 ng
 RT: 17.338 min Scan# 2426
 Delta R.T. -0.003 min
 Lab File: BG058719.D
 Acq: 14 Aug 2023 12:31

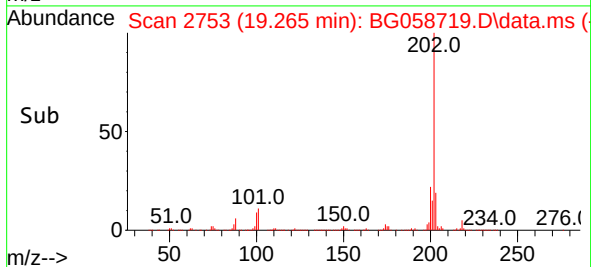
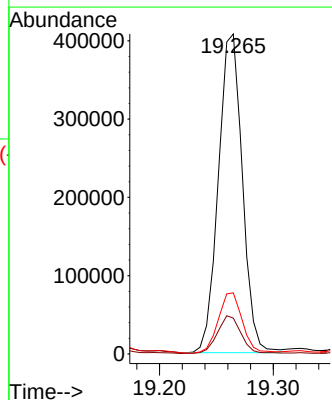
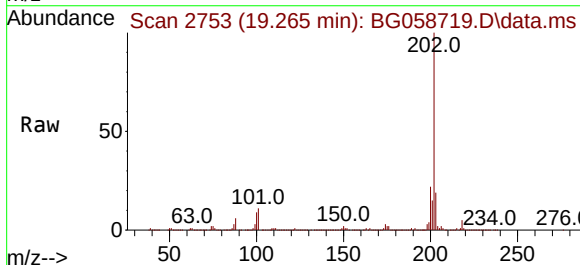
Instrument :
 BNA_G
 ClientSampleId :
 NEVINS-SB02-Z37-39DL

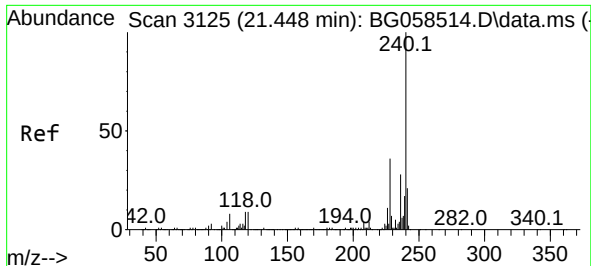
Tgt Ion:178 Resp: 408974
 Ion Ratio Lower Upper
 178 100
 176 19.3 16.0 24.0
 179 16.7 12.9 19.3



#75
 Fluoranthene
 Concen: 35.557 ng
 RT: 19.265 min Scan# 2753
 Delta R.T. 0.002 min
 Lab File: BG058719.D
 Acq: 14 Aug 2023 12:31

Tgt Ion:202 Resp: 597985
 Ion Ratio Lower Upper
 202 100
 101 11.2 0.0 31.4
 203 19.1 0.0 39.0

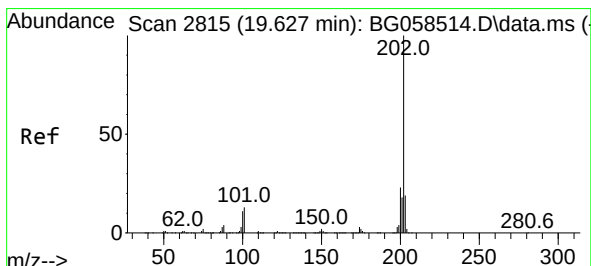
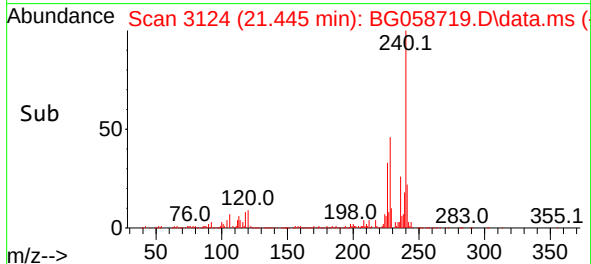
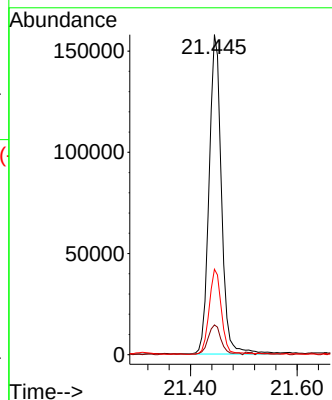
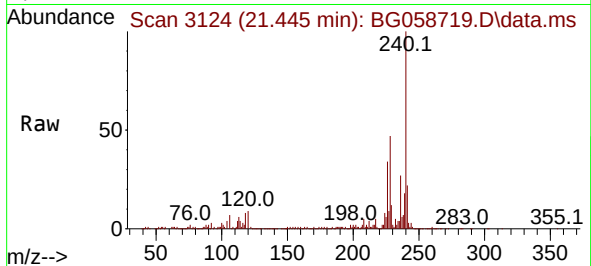




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.445 min Scan# 31
Delta R.T. -0.003 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

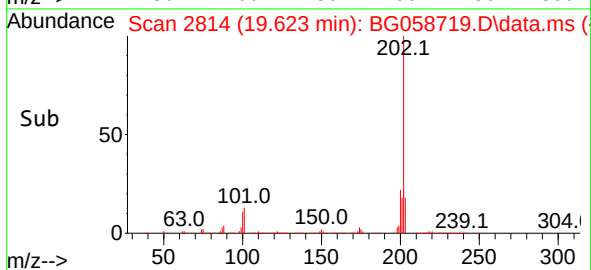
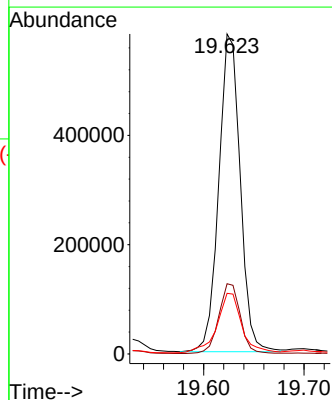
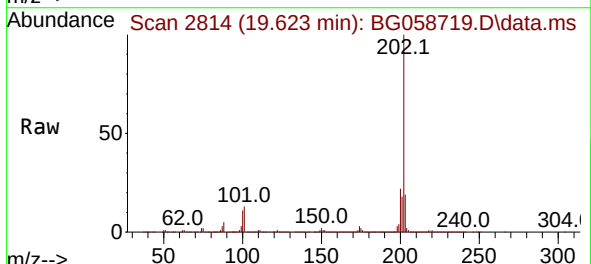
Instrument :
BNA_G
ClientSampleId :
NEVINS-SB02-Z37-39DL

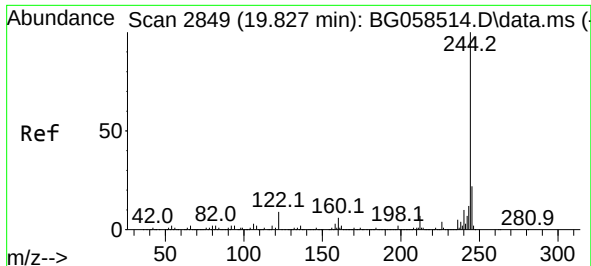
Tgt Ion:240 Resp: 253603
Ion Ratio Lower Upper
240 100
120 9.3 7.4 11.0
236 26.7 22.2 33.4



#78
Pyrene
Concen: 49.886 ng
RT: 19.623 min Scan# 2814
Delta R.T. -0.003 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

Tgt Ion:202 Resp: 860984
Ion Ratio Lower Upper
202 100
200 22.0 18.2 27.2
203 18.9 15.1 22.7

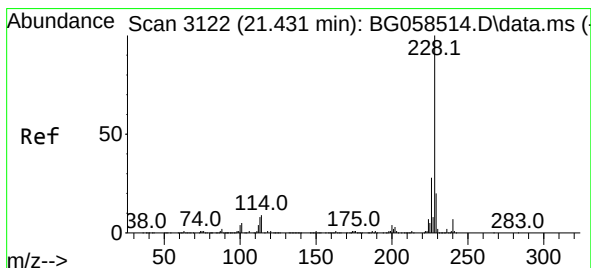
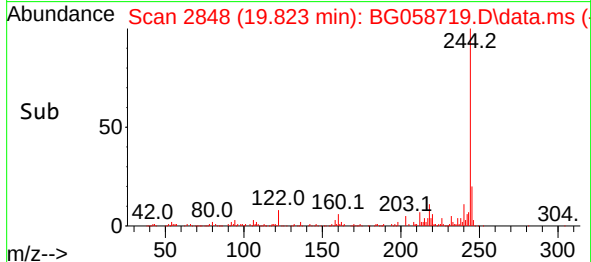
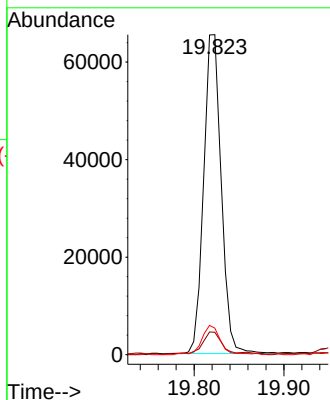
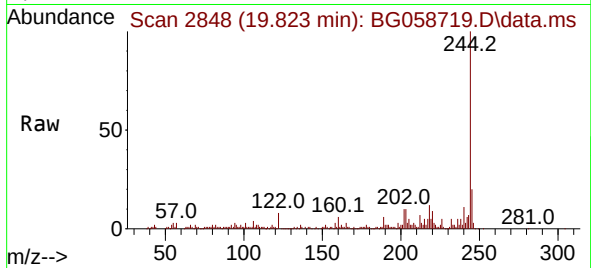




#79
 Terphenyl-d14
 Concen: 6.595 ng
 RT: 19.823 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BG058719.D
 Acq: 14 Aug 2023 12:31

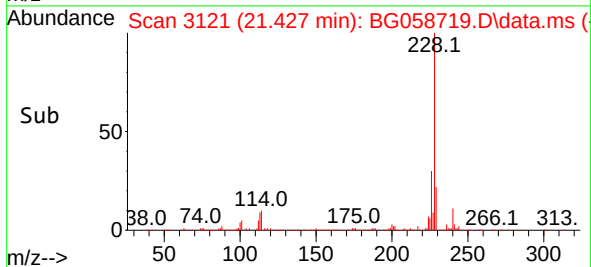
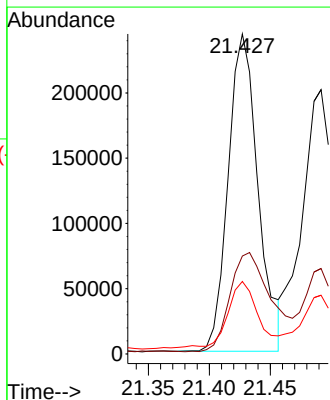
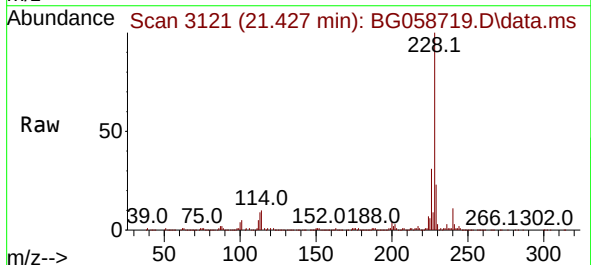
Instrument :
 BNA_G
 ClientSampleId :
 NEVINS-SB02-Z37-39DL

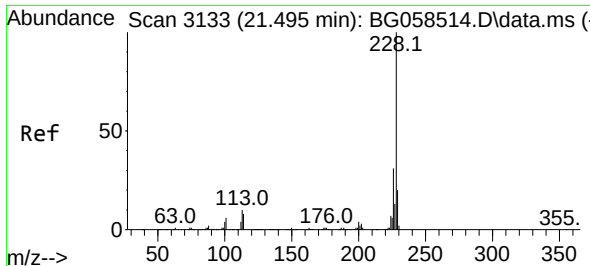
Tgt Ion:244 Resp: 88934
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.9 8.9
 122 8.3 6.8 10.2



#81
 Benzo(a)anthracene
 Concen: 23.704 ng
 RT: 21.427 min Scan# 3121
 Delta R.T. -0.003 min
 Lab File: BG058719.D
 Acq: 14 Aug 2023 12:31

Tgt Ion:228 Resp: 413693
 Ion Ratio Lower Upper
 228 100
 226 30.6 22.6 33.8
 229 22.7 16.3 24.5





#83

Chrysene

Concen: 21.882 ng

RT: 21.492 min Scan# 31

Delta R.T. -0.003 min

Lab File: BG058719.D

Acq: 14 Aug 2023 12:31

Instrument :

BNA_G

ClientSampleId :

NEVINS-SB02-Z37-39DL

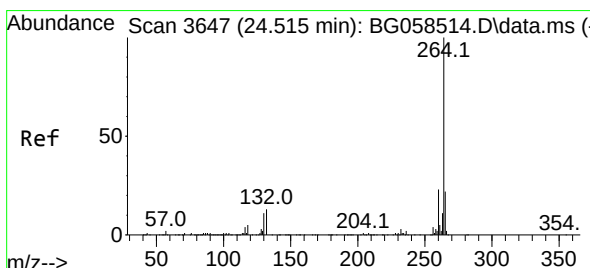
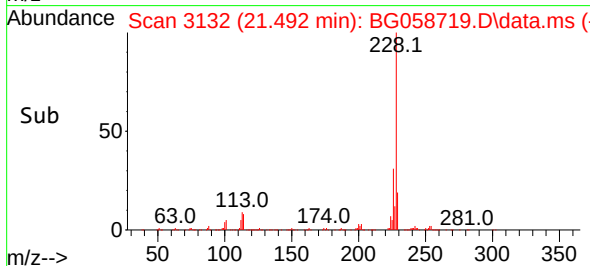
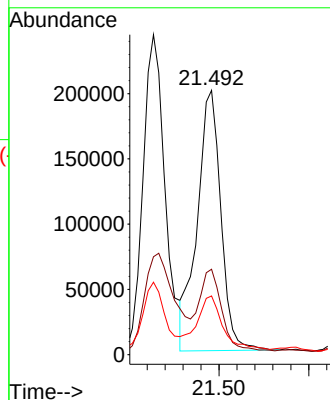
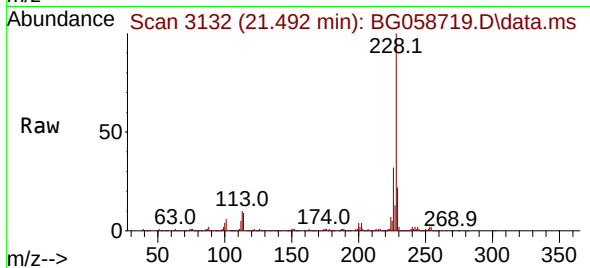
Tgt Ion:228 Resp: 366169

Ion Ratio Lower Upper

228 100

226 32.3 25.0 37.6

229 22.2 16.3 24.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.518 min Scan# 3647

Delta R.T. 0.002 min

Lab File: BG058719.D

Acq: 14 Aug 2023 12:31

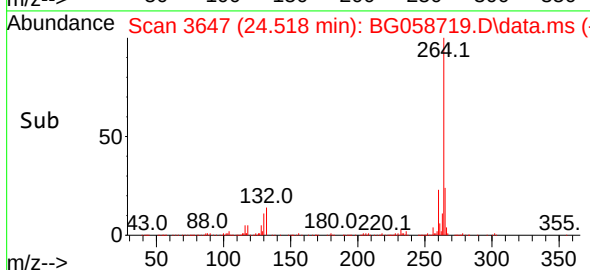
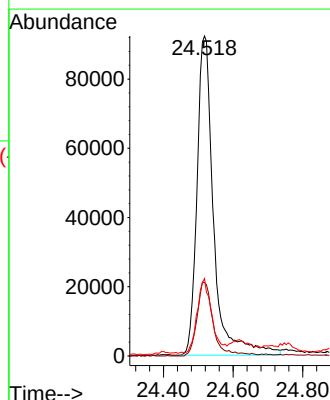
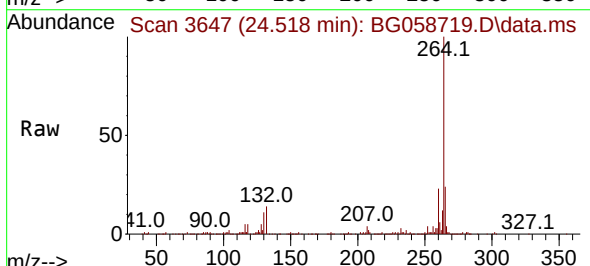
Tgt Ion:264 Resp: 305937

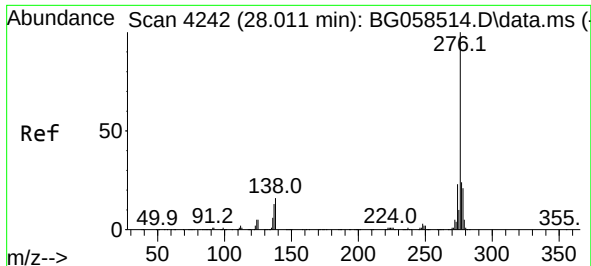
Ion Ratio Lower Upper

264 100

260 22.9 18.4 27.6

265 24.2 17.9 26.9

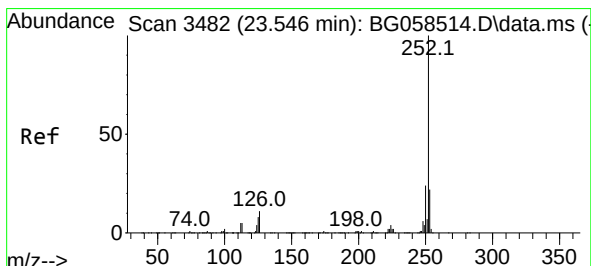
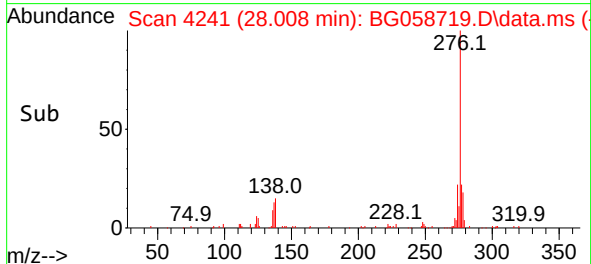
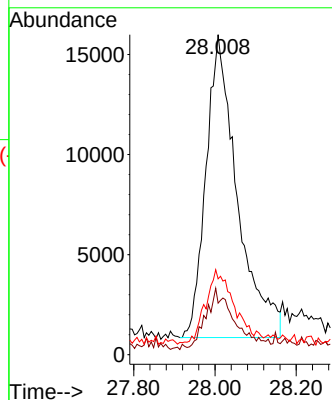
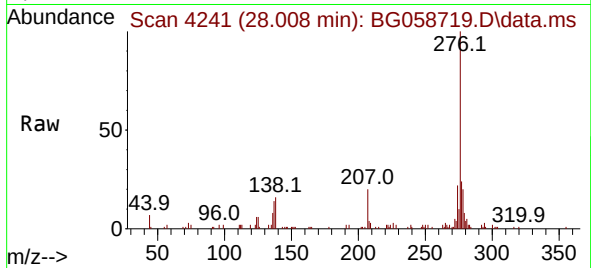




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 3.981 ng
 RT: 28.008 min Scan# 4241
 Delta R.T. -0.003 min
 Lab File: BG058719.D
 Acq: 14 Aug 2023 12:31

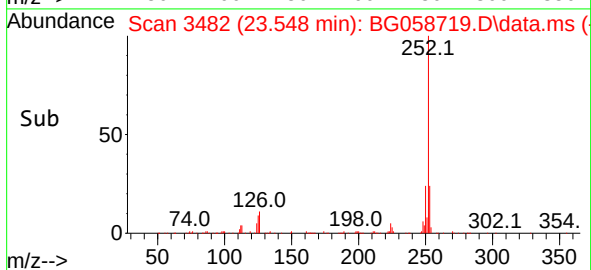
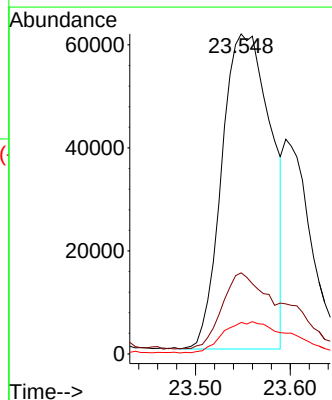
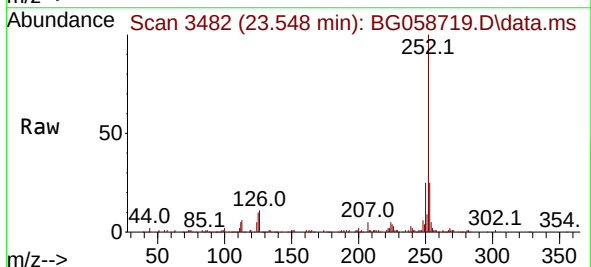
Instrument :
 BNA_G
 ClientSampleId :
 NEVINS-SB02-Z37-39DL

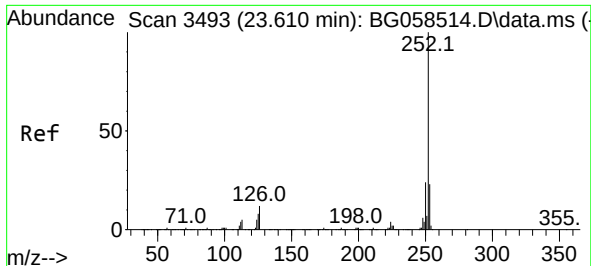
Tgt Ion:276 Resp: 81029
 Ion Ratio Lower Upper
 276 100
 138 8.6 16.0 24.0#
 277 20.8 20.4 30.6



#88
 Benzo(b)fluoranthene
 Concen: 13.272 ng
 RT: 23.548 min Scan# 3482
 Delta R.T. 0.002 min
 Lab File: BG058719.D
 Acq: 14 Aug 2023 12:31

Tgt Ion:252 Resp: 220219
 Ion Ratio Lower Upper
 252 100
 253 25.4 17.8 26.8
 125 9.9 6.6 9.8#

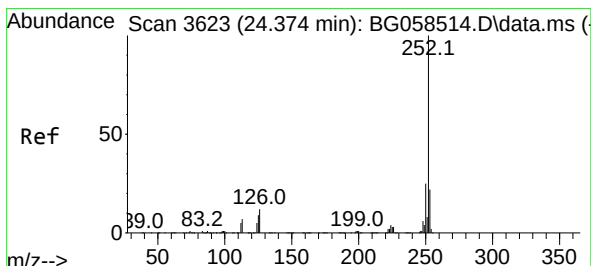
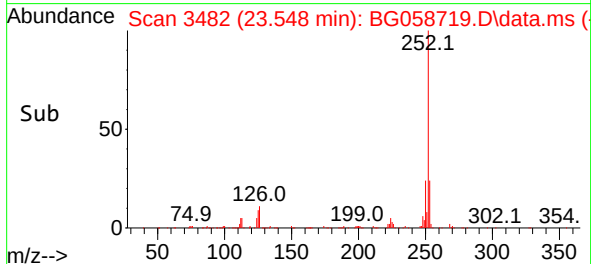
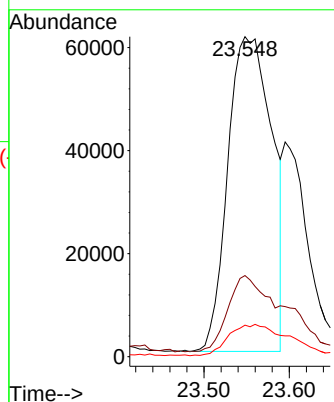
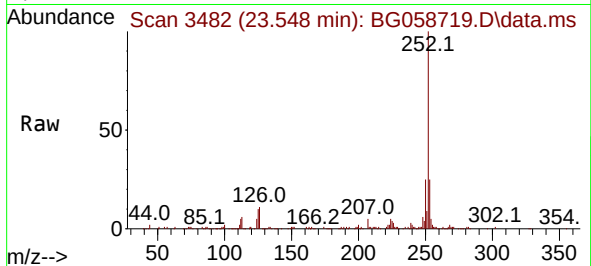




#89
Benzo(k)fluoranthene
Concen: 13.193 ng
RT: 23.548 min Scan# 3493
Delta R.T. -0.062 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

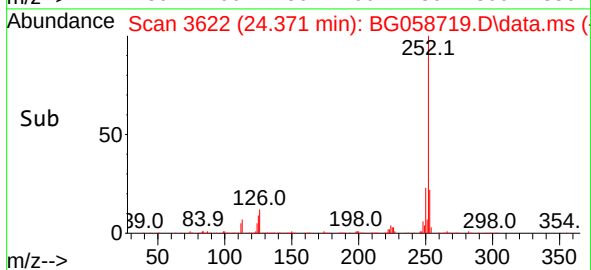
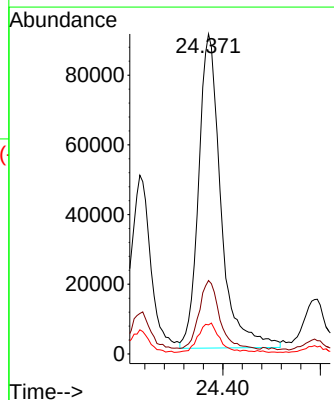
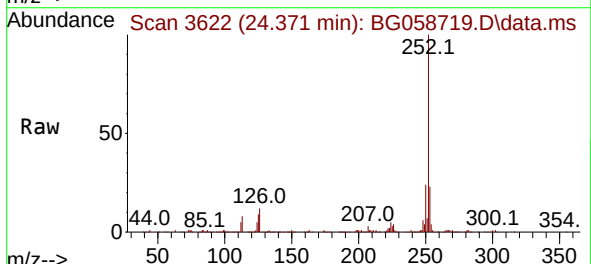
Instrument :
BNA_G
ClientSampleId :
NEVINS-SB02-Z37-39DL

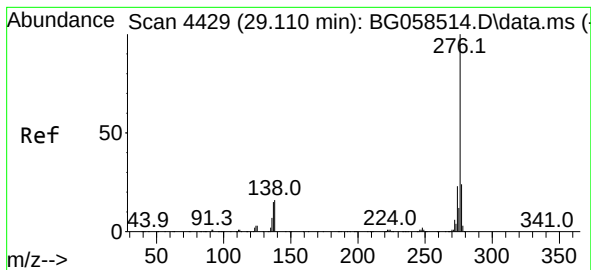
Tgt Ion:252 Resp: 219922
Ion Ratio Lower Upper
252 100
253 25.4 17.9 26.9
125 9.9 6.6 10.0



#90
Benzo(a)pyrene
Concen: 17.530 ng
RT: 24.371 min Scan# 3622
Delta R.T. -0.003 min
Lab File: BG058719.D
Acq: 14 Aug 2023 12:31

Tgt Ion:252 Resp: 285668
Ion Ratio Lower Upper
252 100
253 22.9 17.5 26.3
125 9.1 7.4 11.2





#92

Benzo(g,h,i)perylene

Concen: 5.087 ng

RT: 29.106 min Scan# 44

Delta R.T. -0.003 min

Lab File: BG058719.D

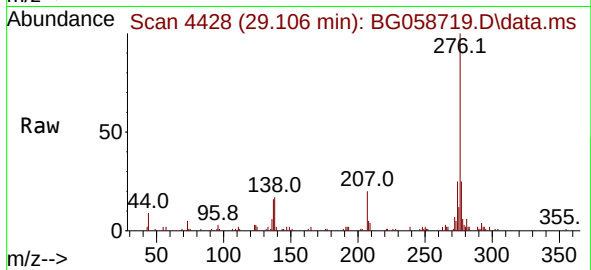
Acq: 14 Aug 2023 12:31

Instrument :

BNA_G

ClientSampleId :

NEVINS-SB02-Z37-39DL



Tgt Ion:276 Resp: 85838

Ion Ratio Lower Upper

276 100

277 24.9 18.9 28.3

138 17.0 13.0 19.4

