

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042324\
 Data File : BG061010.D
 Acq On : 23 Apr 2024 16:33
 Operator : MA/JU
 Sample : P2178-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TOPSOIL-LKWD-DENALI-5

Quant Time: Apr 23 17:32:56 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 22 04:22:00 2024
 Response via : Initial Calibration

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

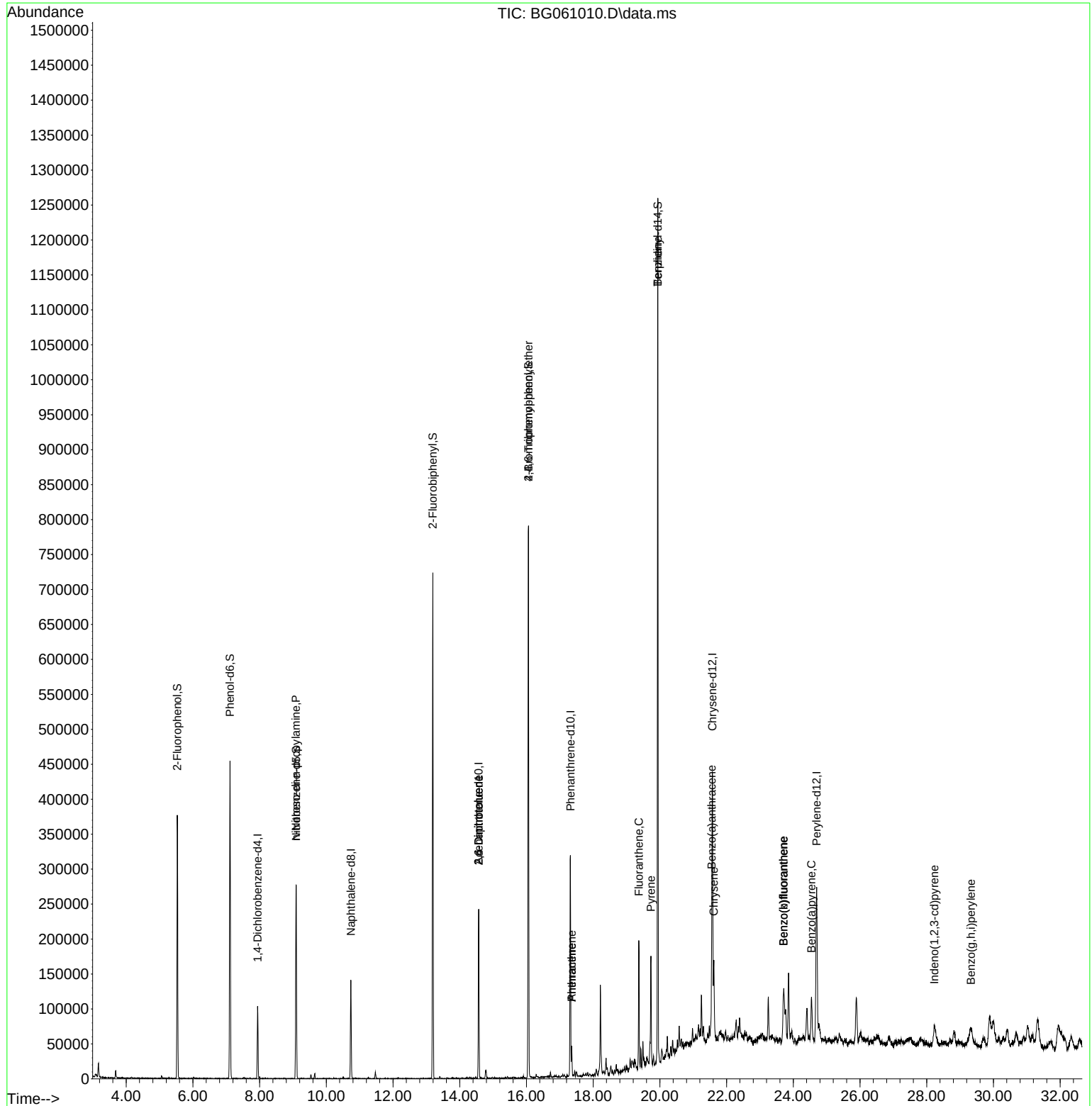
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.941	152	26884	20.000	ng	0.00
21) Naphthalene-d8	10.737	136	108328	20.000	ng	0.00
39) Acenaphthene-d10	14.568	164	84067	20.000	ng	0.00
64) Phenanthrene-d10	17.318	188	202688	20.000	ng	0.00
76) Chrysene-d12	21.578	240	208840	20.000	ng	0.00
86) Perylene-d12	24.697	264	253234	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.532	112	135152	101.688	ng	0.00
7) Phenol-d6	7.112	99	202523	102.699	ng	0.00
23) Nitrobenzene-d5	9.098	82	142485	59.096	ng	0.00
42) 2,4,6-Tribromophenol	16.060	330	181578	98.360	ng	0.00
45) 2-Fluorobiphenyl	13.193	172	354387	58.343	ng	0.00
79) Terphenyl-d14	19.938	244	633989	47.122	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	9.092	70	21057	14.328	ng	# 74
51) 2,6-Dinitrotoluene	14.568	165	11708	8.094	ng	# 16
57) 2,4-Dinitrotoluene	14.568	165	11708	5.620	ng	# 19
67) 4-Bromophenyl-phenylether	16.060	248	11020	4.120	ng	# 1
71) Phenanthrene	17.359	178	27562	2.664	ng	96
72) Anthracene	17.359	178	27562	2.587	ng	98
75) Fluoranthene	19.368	202	112123	8.166	ng	96
77) Benzidine	19.938	184	10168	2.628	ng	# 88
78) Pyrene	19.733	202	105118	7.392	ng	96
81) Benzo(a)anthracene	21.554	228	71465	4.867	ng	94
83) Chrysene	21.619	228	73459	5.255	ng	96
87) Indeno(1,2,3-cd)pyrene	28.229	276	55519	3.160	ng	# 91
88) Benzo(b)fluoranthene	23.710	252	98353	6.854	ng	# 99
89) Benzo(k)fluoranthene	23.710	252	98353	6.789	ng	# 97
90) Benzo(a)pyrene	24.545	252	68073	4.901	ng	# 98
92) Benzo(g,h,i)perylene	29.327	276	48957	3.440	ng	# 92

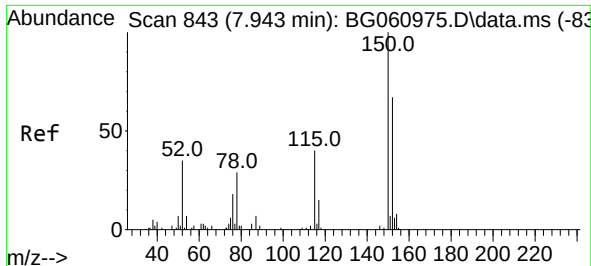
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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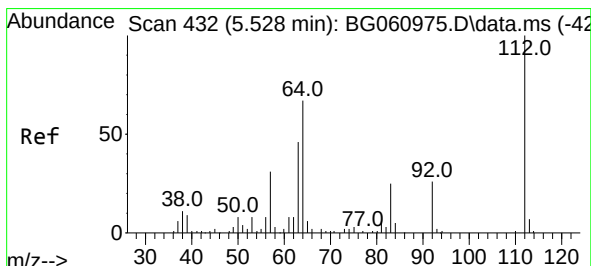
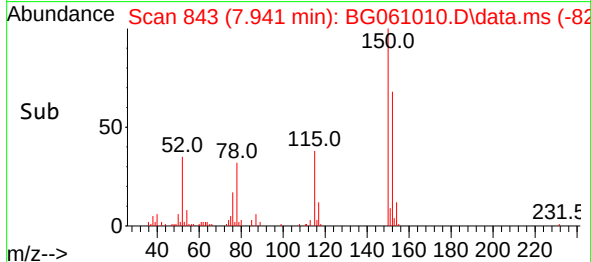
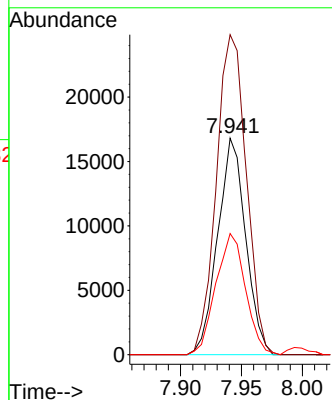
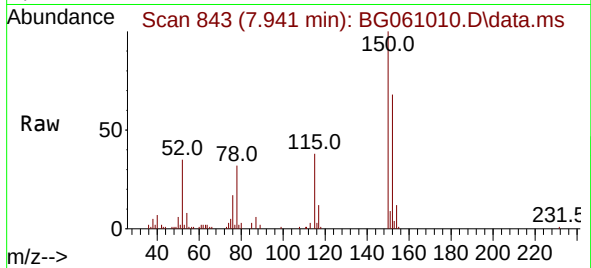




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.941 min Scan# 843
Delta R.T. -0.002 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

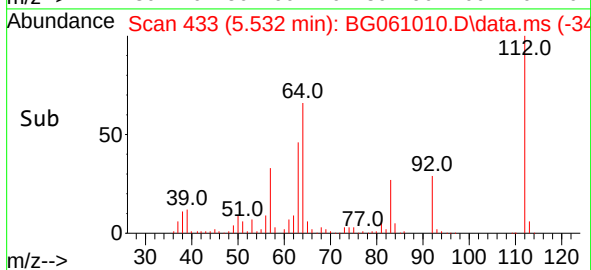
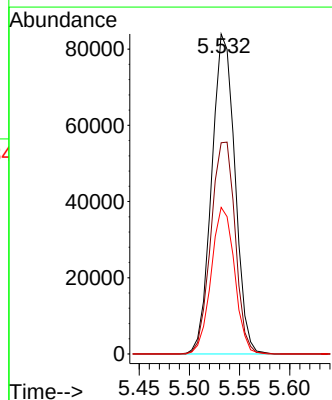
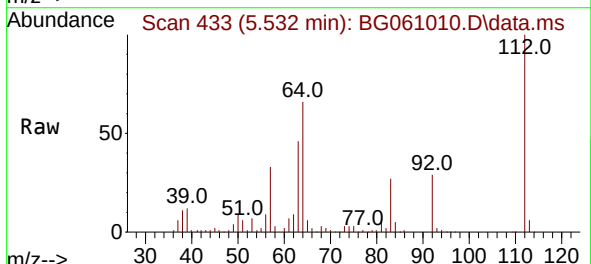
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-LKWD-DENALI-5

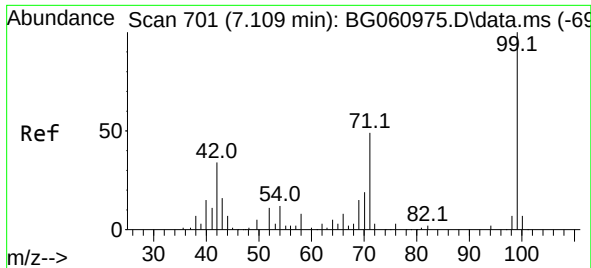
Tgt Ion:152 Resp: 26884
Ion Ratio Lower Upper
152 100
150 147.8 118.6 178.0
115 55.9 47.4 71.0



#5
2-Fluorophenol
Concen: 101.688 ng
RT: 5.532 min Scan# 433
Delta R.T. 0.004 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

Tgt Ion:112 Resp: 135152
Ion Ratio Lower Upper
112 100
64 66.0 53.7 80.5
63 45.8 37.0 55.6

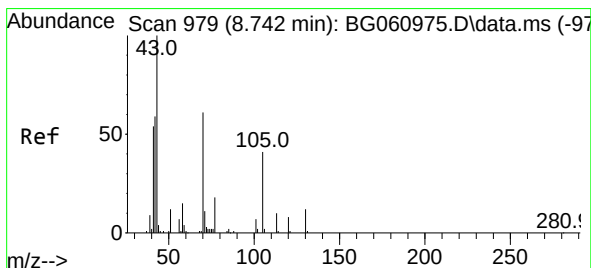
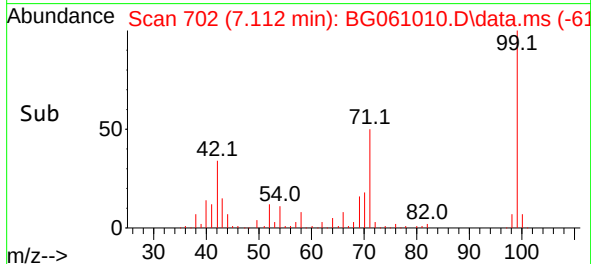
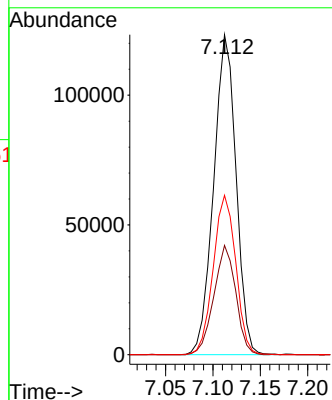
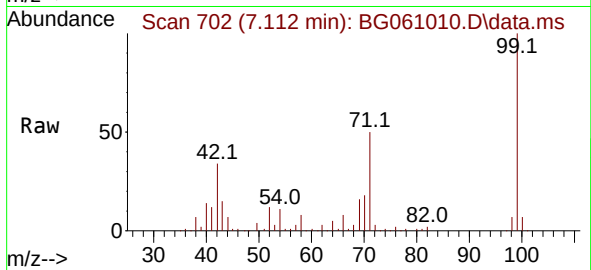




#7
Phenol-d6
Concen: 102.699 ng
RT: 7.112 min Scan# 701
Delta R.T. 0.004 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

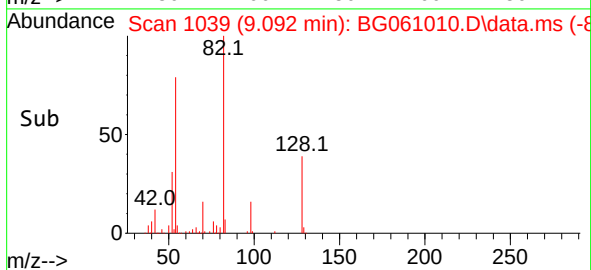
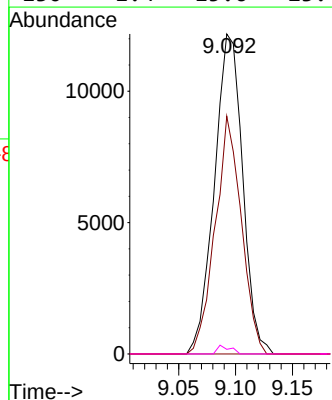
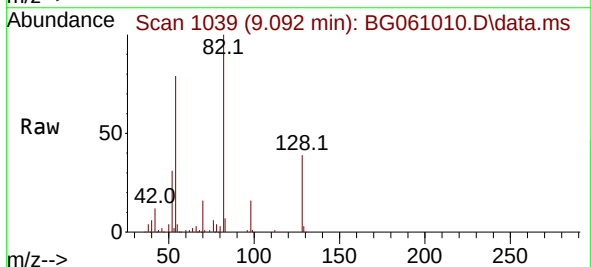
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-LKWD-DENALI-5

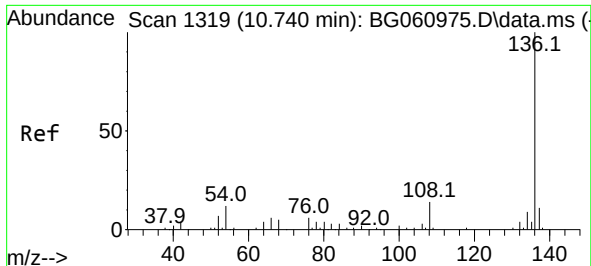
Tgt Ion: 99 Resp: 202523
Ion Ratio Lower Upper
99 100
42 34.1 27.2 40.8
71 49.8 38.8 58.2



#19
n-Nitroso-di-n-propylamine
Concen: 14.328 ng
RT: 9.092 min Scan# 1039
Delta R.T. 0.350 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

Tgt Ion: 70 Resp: 21057
Ion Ratio Lower Upper
70 100
42 74.3 78.0 117.0#
101 0.0 8.6 13.0#
130 1.4 15.6 23.4#

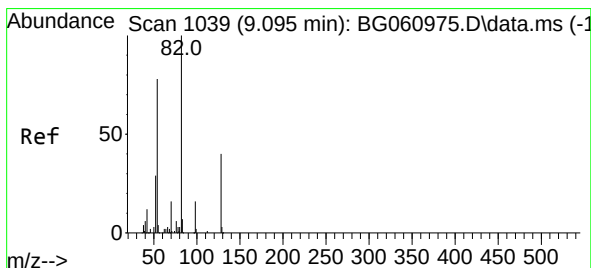
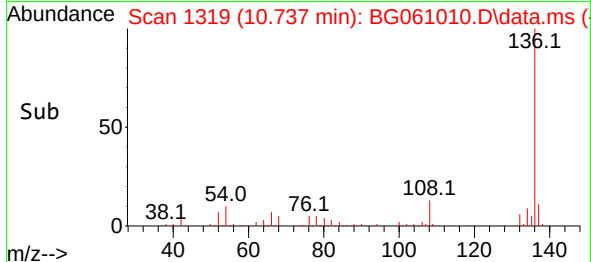
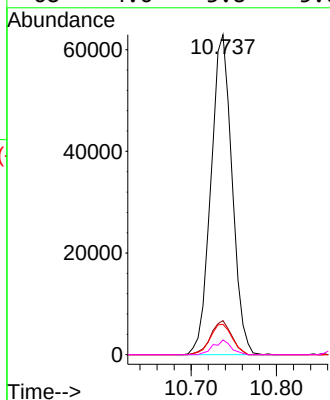
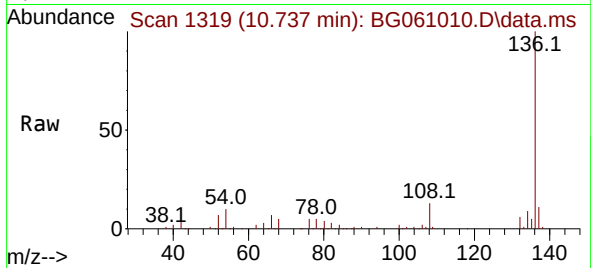


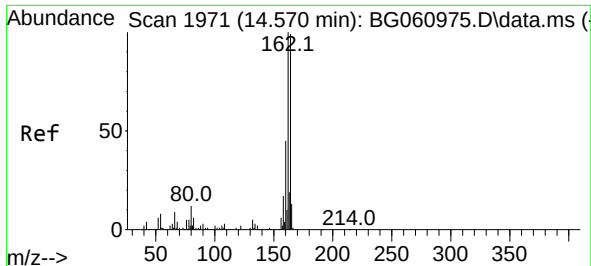


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.737 min Scan# 11
Delta R.T. -0.003 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

Instrument :
BNA_G
ClientSampleId :
TOPSOIL-LKWD-DENALI-5

Tgt Ion:	136	Resp:	108328
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.5	12.7
54	9.5	9.4	14.0
68	4.6	3.8	5.6

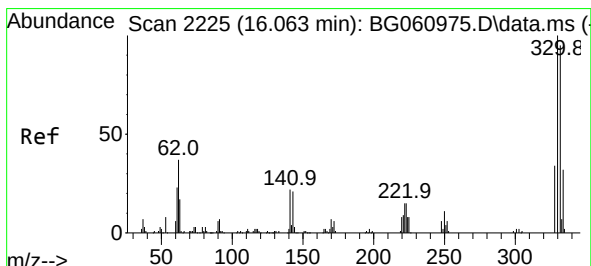
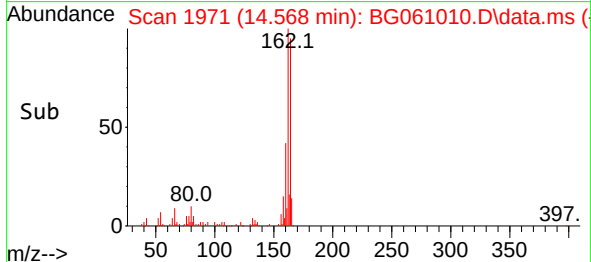
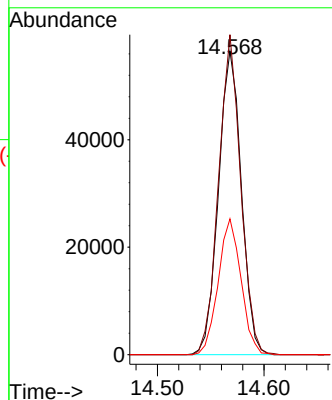
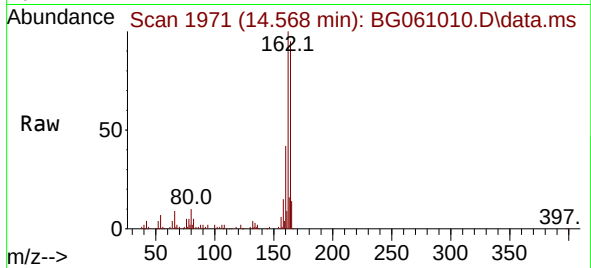




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.568 min Scan# 1971
Delta R.T. -0.002 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

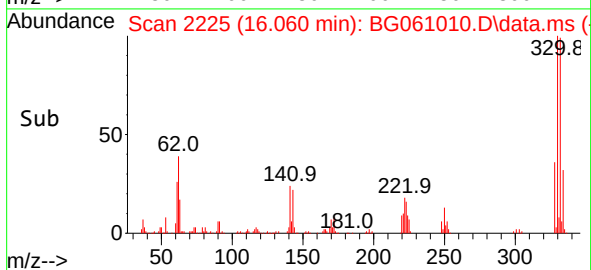
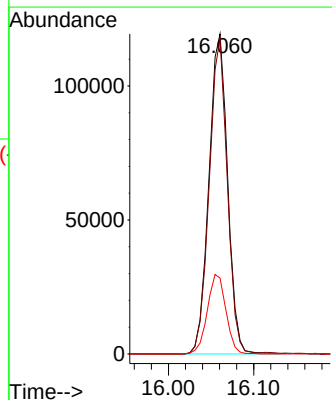
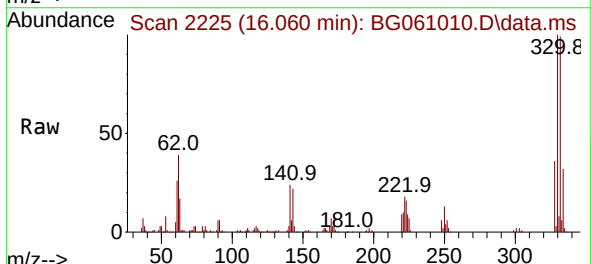
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-LKWD-DENALI-5

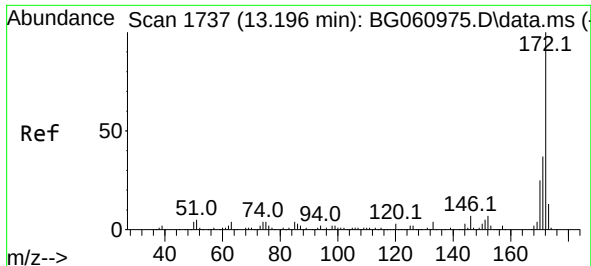
Tgt Ion:164 Resp: 84067
Ion Ratio Lower Upper
164 100
162 105.3 81.2 121.8
160 44.7 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 98.360 ng
RT: 16.060 min Scan# 2225
Delta R.T. -0.003 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

Tgt Ion:330 Resp: 181578
Ion Ratio Lower Upper
330 100
332 95.1 77.1 115.7
141 24.7 20.6 31.0

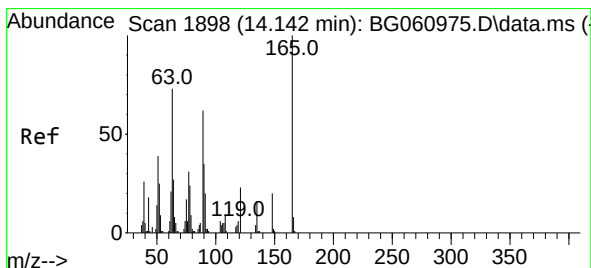
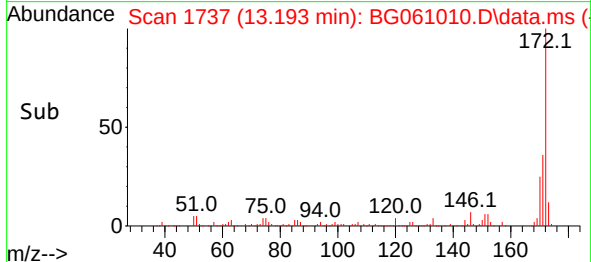
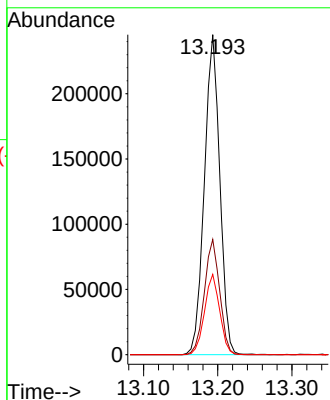
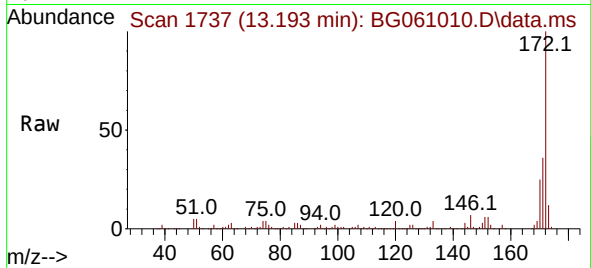




#45
2-Fluorobiphenyl
Concen: 58.343 ng
RT: 13.193 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

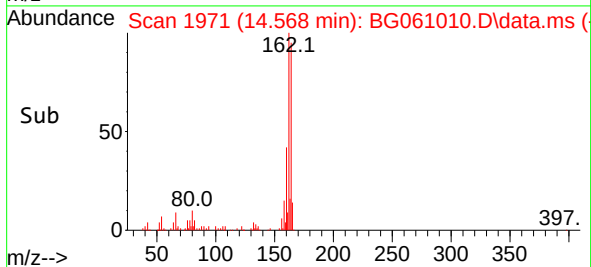
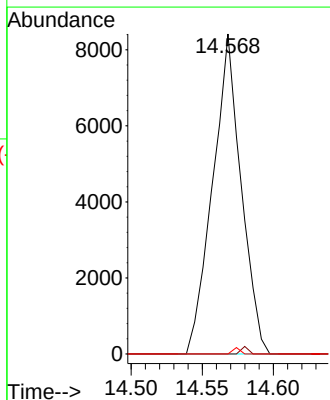
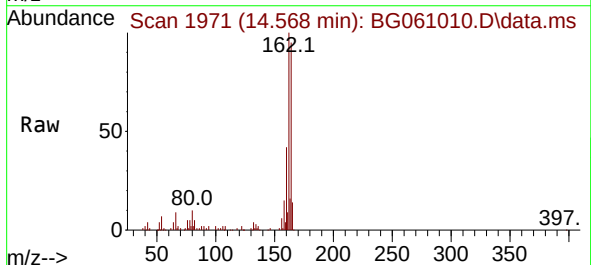
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ClientSampleId :
TOPSOIL-LKWD-DENALI-5

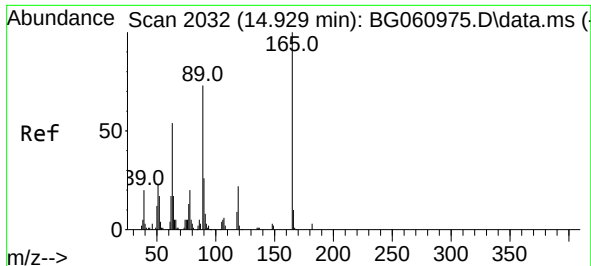
Tgt Ion:172 Resp: 354387
Ion Ratio Lower Upper
172 100
171 36.0 29.3 43.9
170 25.1 20.1 30.1



#51
2,6-Dinitrotoluene
Concen: 8.094 ng
RT: 14.568 min Scan# 1971
Delta R.T. 0.427 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

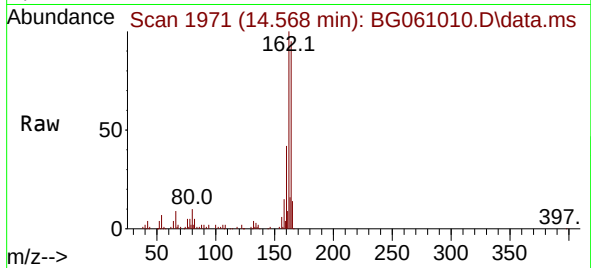
Tgt Ion:165 Resp: 11708
Ion Ratio Lower Upper
165 100
63 0.0 59.6 89.4#
89 0.0 49.4 74.0#



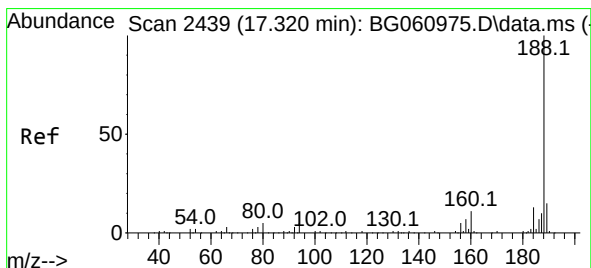
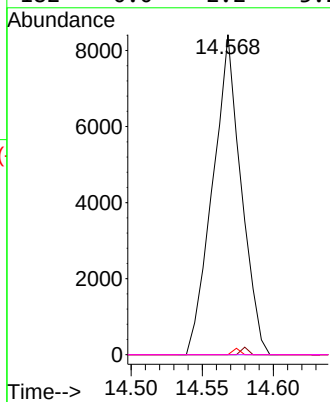
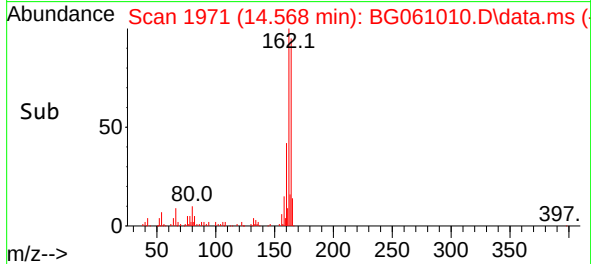


#57
2,4-Dinitrotoluene
Concen: 5.620 ng
RT: 14.568 min Scan# 1971
Delta R.T. -0.361 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

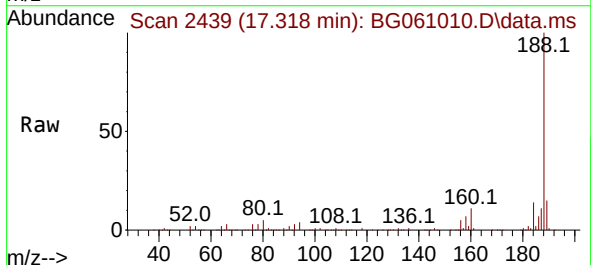
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-LKWD-DENALI-5



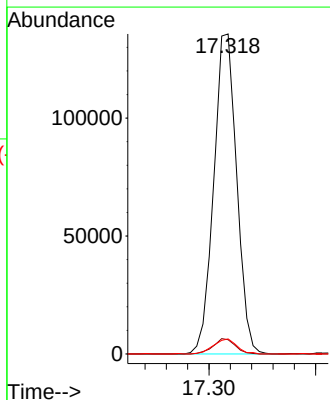
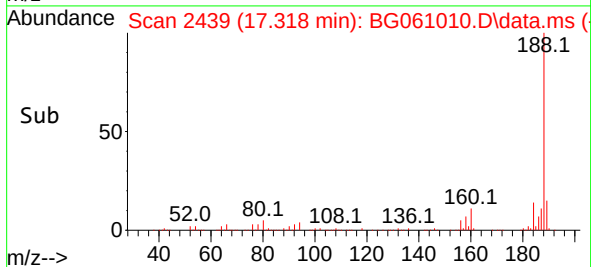
Tgt Ion:165 Resp: 11708
Ion Ratio Lower Upper
165 100
63 0.0 43.4 65.2#
89 0.0 58.4 87.6#
182 0.0 2.2 3.2#

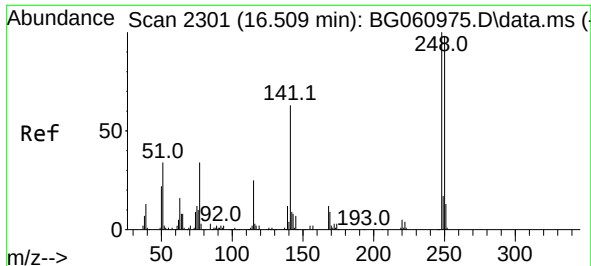


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.318 min Scan# 2439
Delta R.T. -0.002 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33



Tgt Ion:188 Resp: 202688
Ion Ratio Lower Upper
188 100
94 4.4 4.1 6.1
80 4.7 4.0 6.0

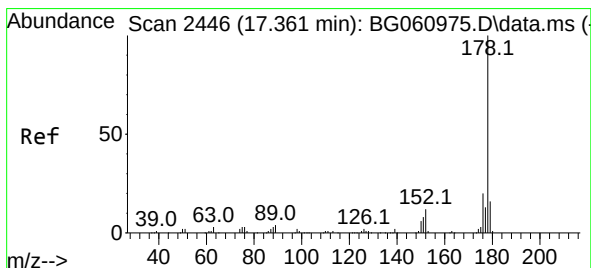
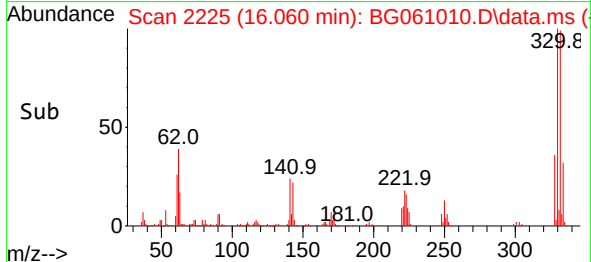
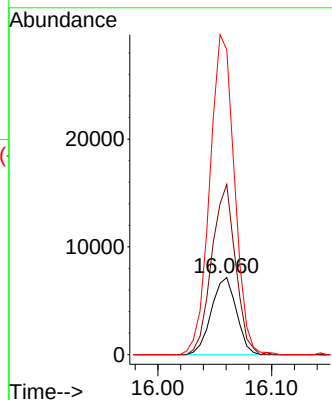
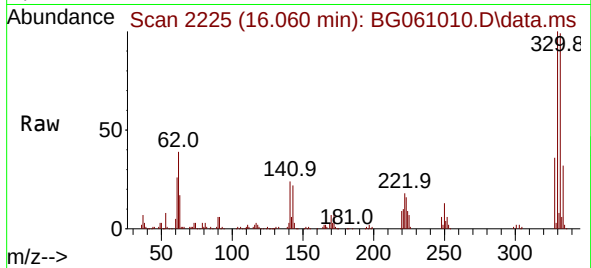




#67
4-Bromophenyl-phenylether
Concen: 4.120 ng
RT: 16.060 min Scan# 211
Delta R.T. -0.449 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

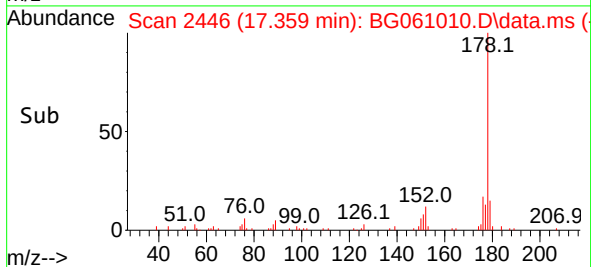
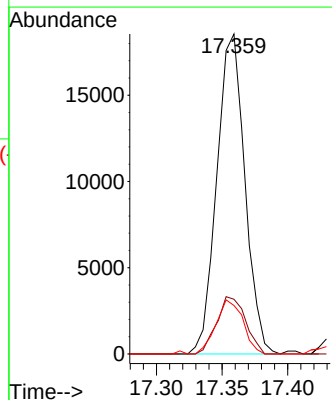
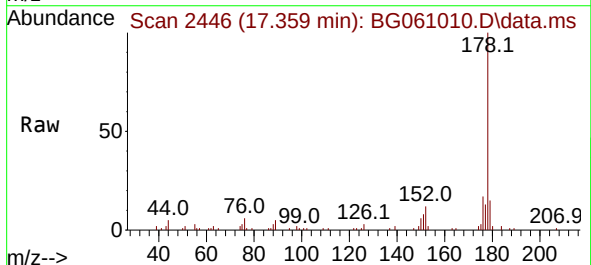
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-LKWD-DENALI-5

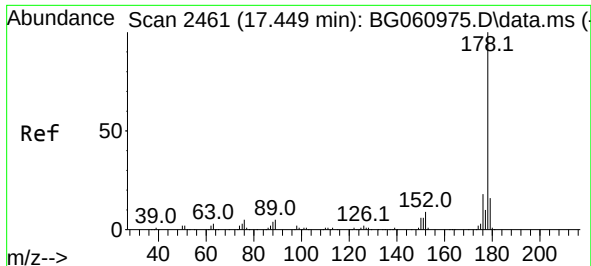
Tgt Ion:248 Resp: 11020
Ion Ratio Lower Upper
248 100
250 220.9 78.7 118.1#
141 395.7 50.4 75.6#



#71
Phenanthrene
Concen: 2.664 ng
RT: 17.359 min Scan# 2446
Delta R.T. -0.002 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

Tgt Ion:178 Resp: 27562
Ion Ratio Lower Upper
178 100
176 17.1 16.0 24.0
179 15.1 12.5 18.7

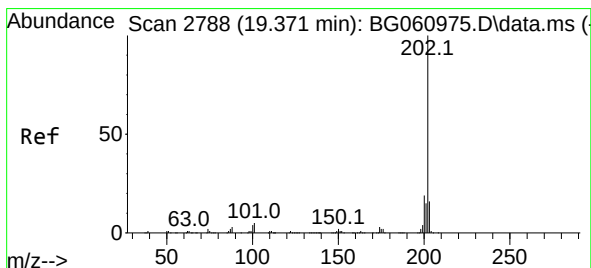
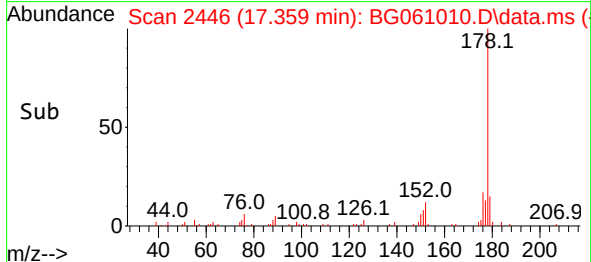
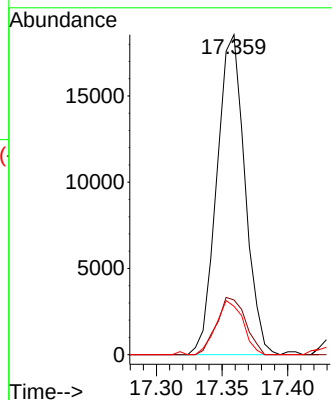
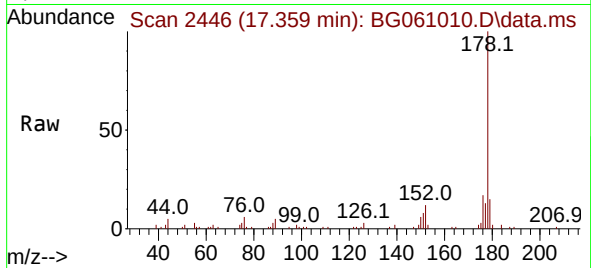




#72
 Anthracene
 Concen: 2.587 ng
 RT: 17.359 min Scan# 2461
 Delta R.T. -0.090 min
 Lab File: BG061010.D
 Acq: 23 Apr 2024 16:33

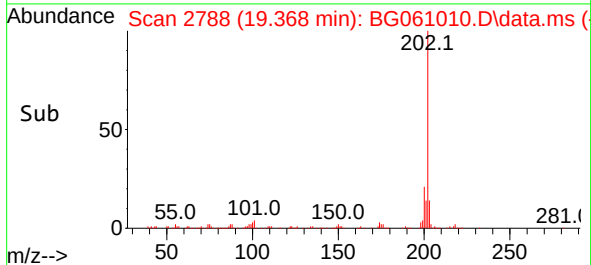
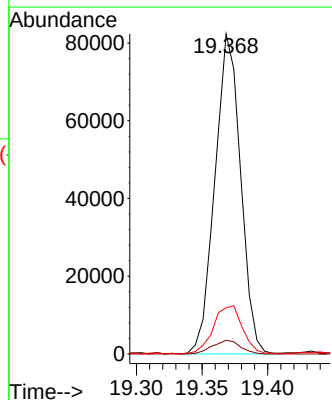
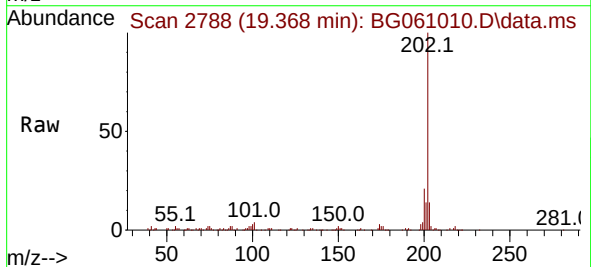
Instrument :
 BNA_G
 ClientSampleId :
 TOPSOIL-LKWD-DENALI-5

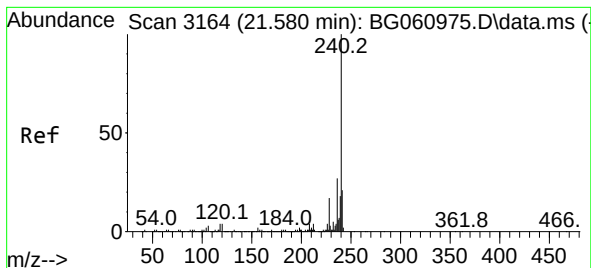
Tgt Ion:178 Resp: 27562
 Ion Ratio Lower Upper
 178 100
 176 17.1 14.7 22.1
 179 15.1 12.4 18.6



#75
 Fluoranthene
 Concen: 8.166 ng
 RT: 19.368 min Scan# 2788
 Delta R.T. -0.002 min
 Lab File: BG061010.D
 Acq: 23 Apr 2024 16:33

Tgt Ion:202 Resp: 112123
 Ion Ratio Lower Upper
 202 100
 101 4.3 0.0 24.9
 203 14.4 0.0 36.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.578 min Scan# 3164

Delta R.T. -0.002 min

Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

Instrument :

BNA_G

ClientSampleId :

TOPSOIL-LKWD-DENALI-5

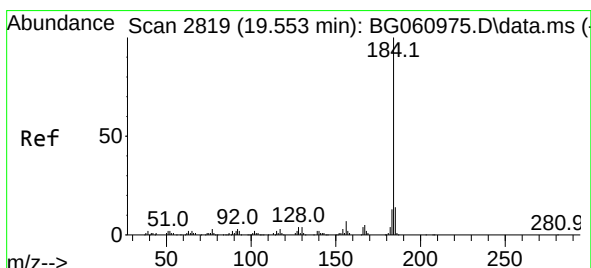
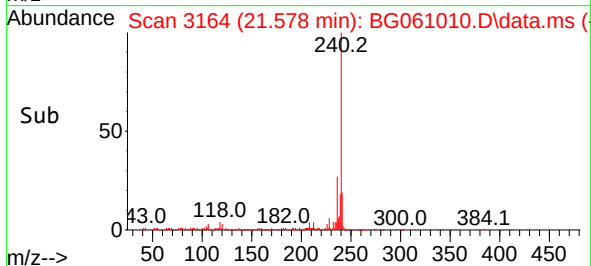
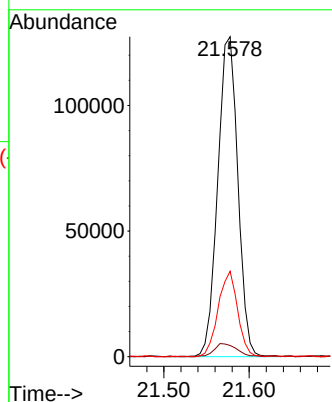
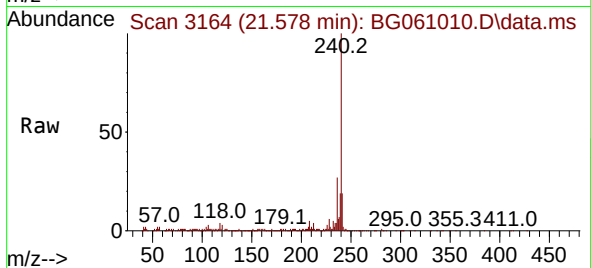
Tgt Ion:240 Resp: 208840

Ion Ratio Lower Upper

240 100

120 3.5 3.0 4.6

236 26.7 21.8 32.6



#77

Benzidine

Concen: 2.628 ng

RT: 19.938 min Scan# 2885

Delta R.T. 0.385 min

Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

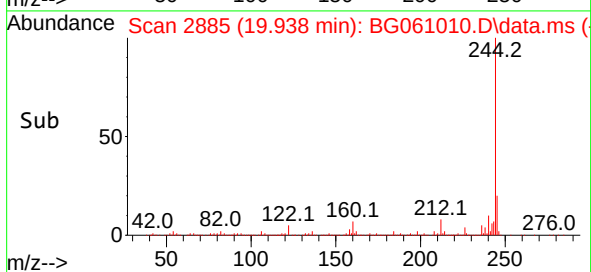
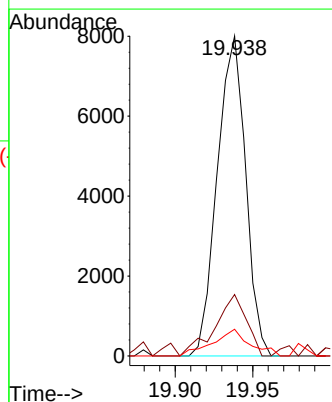
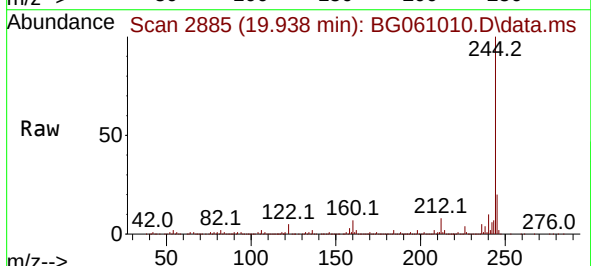
Tgt Ion:184 Resp: 10168

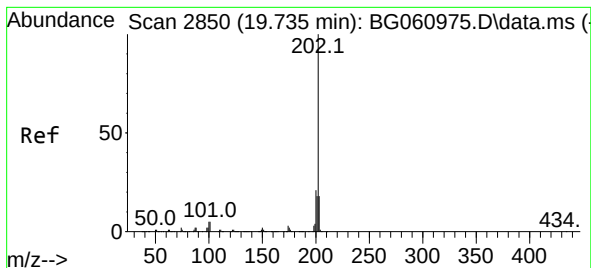
Ion Ratio Lower Upper

184 100

185 19.2 11.3 16.9#

183 8.4 10.2 15.2#





#78

Pyrene

Concen: 7.392 ng

RT: 19.733 min Scan# 21

Delta R.T. -0.002 min

Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

Instrument :

BNA_G

ClientSampleId :

TOPSOIL-LKWD-DENALI-5

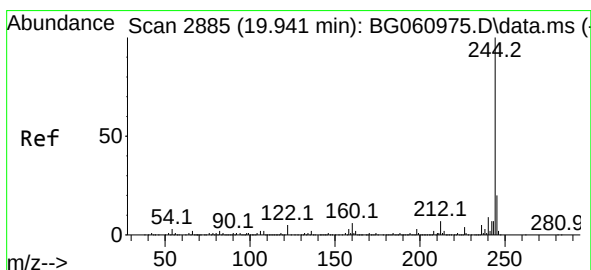
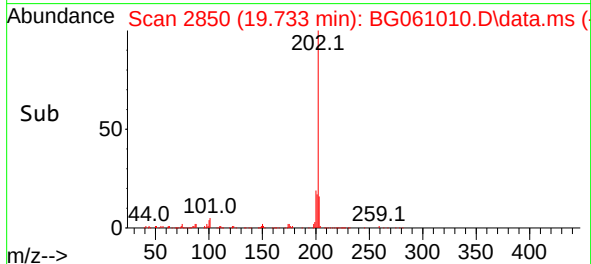
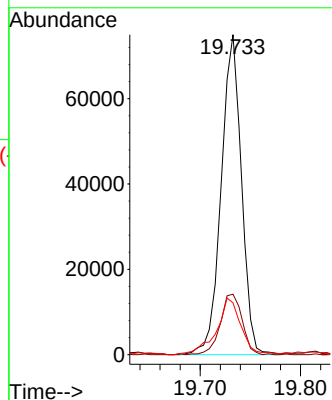
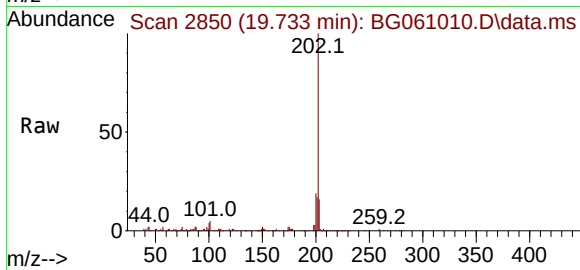
Tgt Ion:202 Resp: 105118

Ion Ratio Lower Upper

202 100

200 18.9 16.8 25.2

203 16.2 14.2 21.2



#79

Terphenyl-d14

Concen: 47.122 ng

RT: 19.938 min Scan# 2885

Delta R.T. -0.002 min

Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

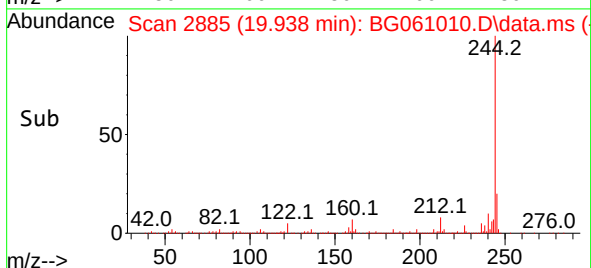
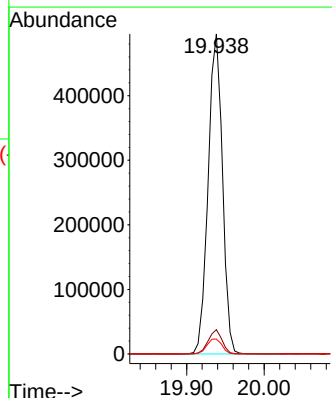
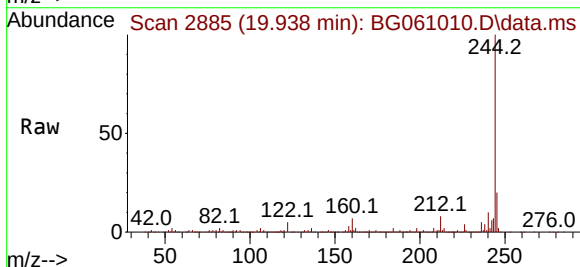
Tgt Ion:244 Resp: 633989

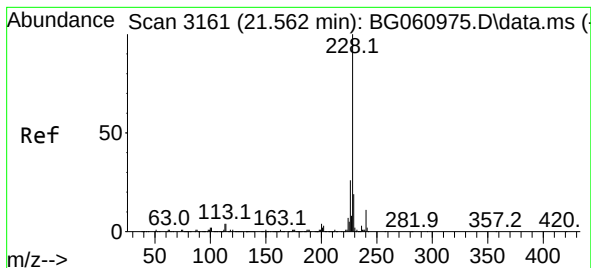
Ion Ratio Lower Upper

244 100

212 7.6 5.9 8.9

122 4.6 4.2 6.2





#81

Benzo(a)anthracene

Concen: 4.867 ng

RT: 21.554 min Scan# 3161

Delta R.T. -0.008 min

Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

Instrument :

BNA_G

ClientSampleId :

TOPSOIL-LKWD-DENALI-5

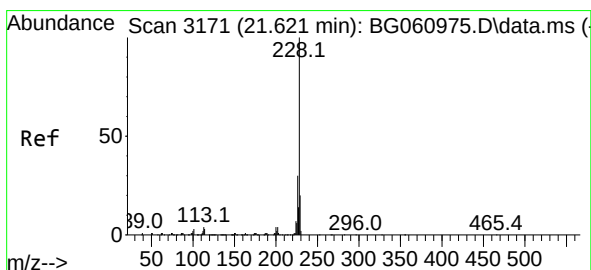
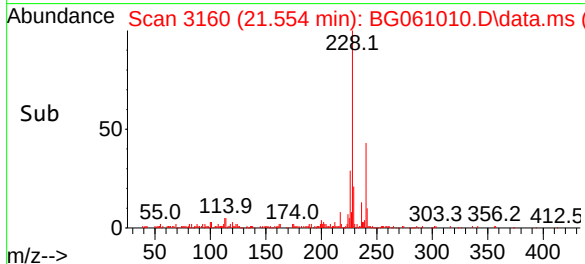
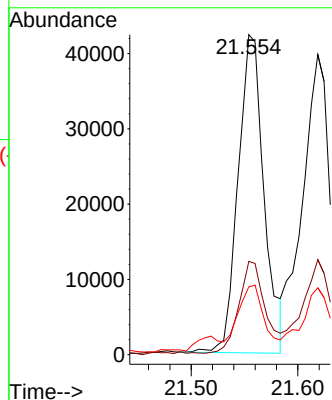
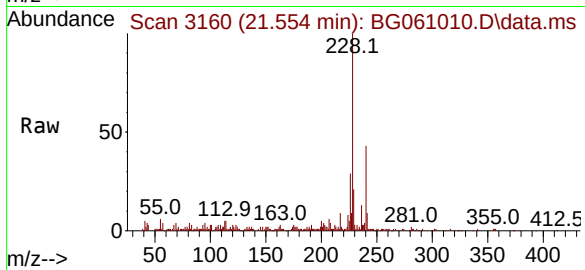
Tgt Ion:228 Resp: 71465

Ion Ratio Lower Upper

228 100

226 29.1 21.0 31.4

229 21.2 15.0 22.4



#83

Chrysene

Concen: 5.255 ng

RT: 21.619 min Scan# 3171

Delta R.T. -0.002 min

Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

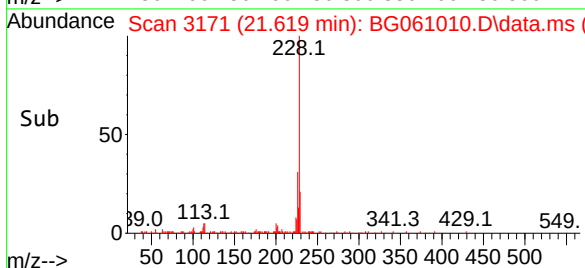
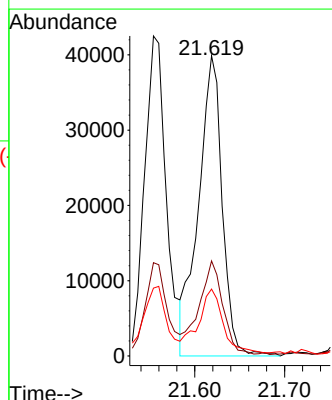
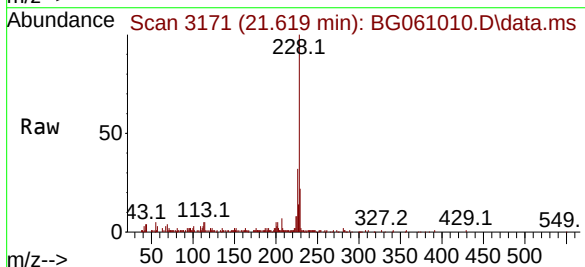
Tgt Ion:228 Resp: 73459

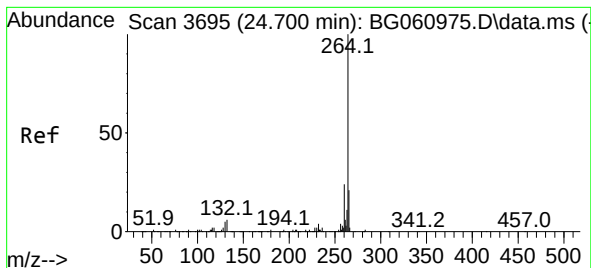
Ion Ratio Lower Upper

228 100

226 31.7 24.2 36.2

229 22.3 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.697 min Scan# 3

Delta R.T. -0.002 min

Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

Instrument :

BNA_G

ClientSampleId :

TOPSOIL-LKWD-DENALI-5

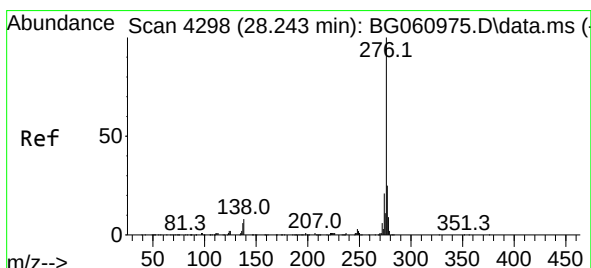
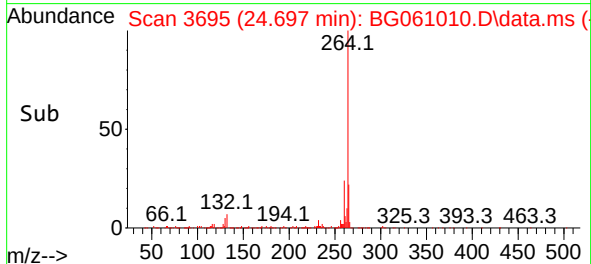
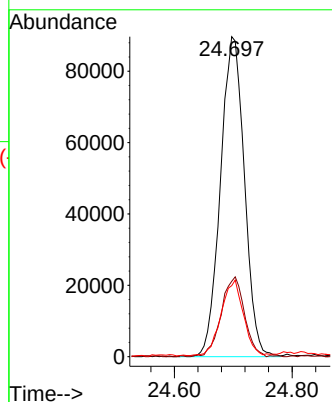
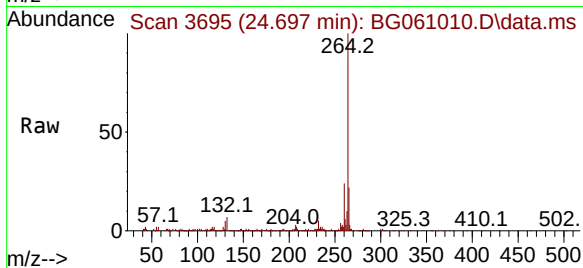
Tgt Ion:264 Resp: 253234

Ion Ratio Lower Upper

264 100

260 23.6 19.4 29.2

265 22.2 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.160 ng

RT: 28.229 min Scan# 4296

Delta R.T. -0.014 min

Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

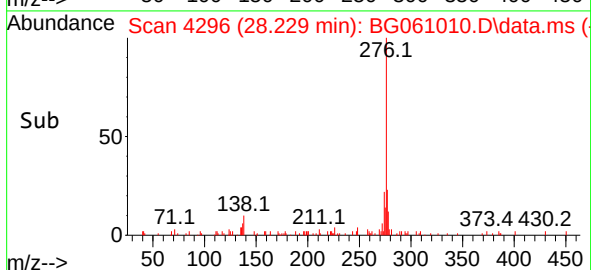
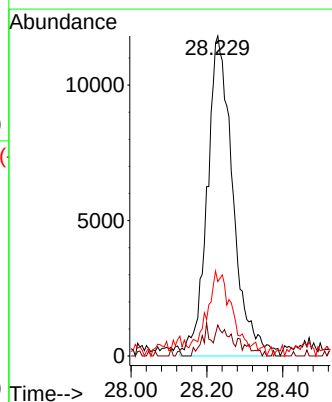
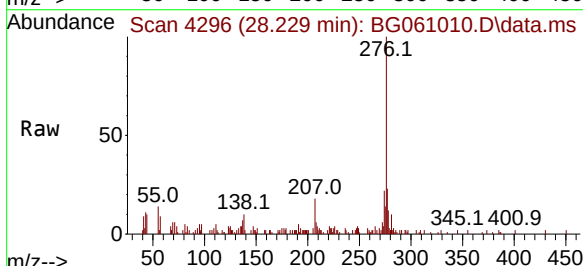
Tgt Ion:276 Resp: 55519

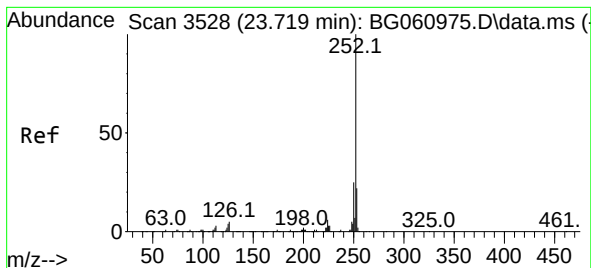
Ion Ratio Lower Upper

276 100

138 3.8 5.3 7.9#

277 20.9 20.6 30.8





#88

Benzo(b)fluoranthene

Concen: 6.854 ng

RT: 23.710 min Scan# 3527

Delta R.T. -0.008 min

Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

Instrument :

BNA_G

ClientSampleId :

TOPSOIL-LKWD-DENALI-5

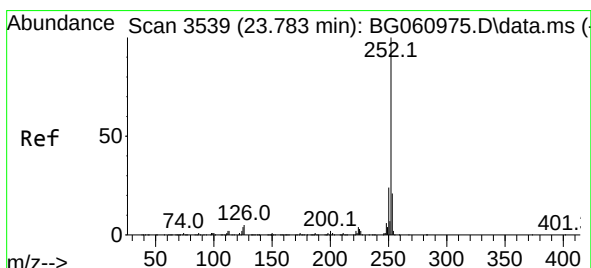
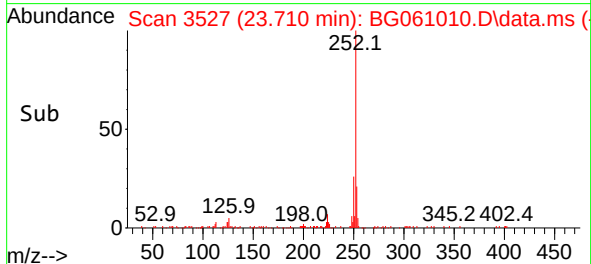
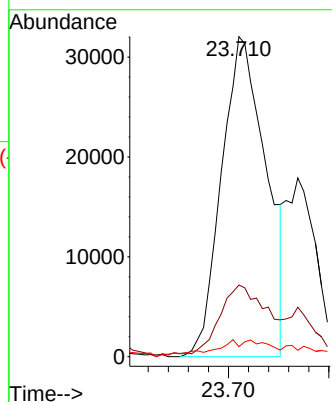
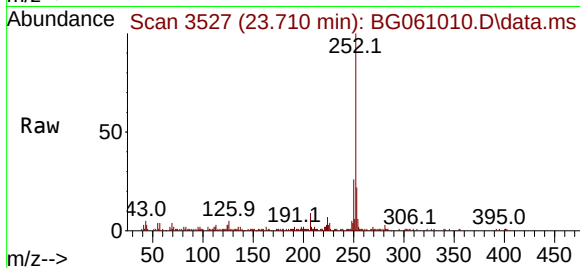
Tgt Ion:252 Resp: 98353

Ion Ratio Lower Upper

252 100

253 22.4 17.5 26.3

125 3.1 3.3 4.9#



#89

Benzo(k)fluoranthene

Concen: 6.789 ng

RT: 23.710 min Scan# 3527

Delta R.T. -0.073 min

Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

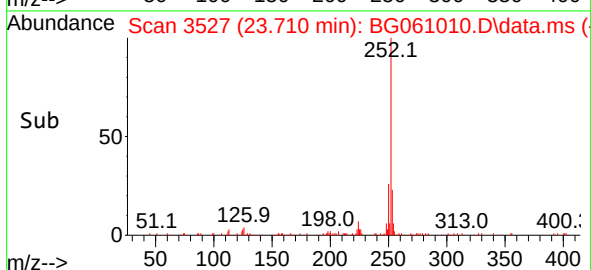
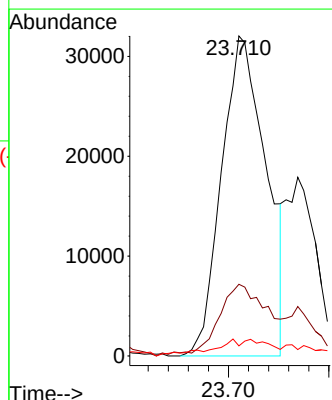
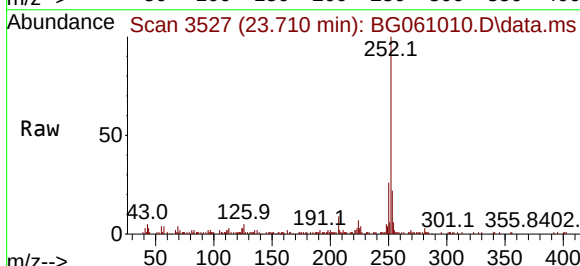
Tgt Ion:252 Resp: 98353

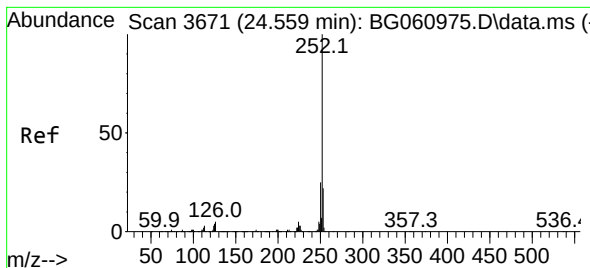
Ion Ratio Lower Upper

252 100

253 22.4 16.6 25.0

125 3.1 3.3 4.9#





#90

Benzo(a)pyrene

Concen: 4.901 ng

RT: 24.545 min Scan# 3669

Delta R.T. -0.014 min

Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

Instrument :

BNA_G

ClientSampleId :

TOPSOIL-LKWD-DENALI-5

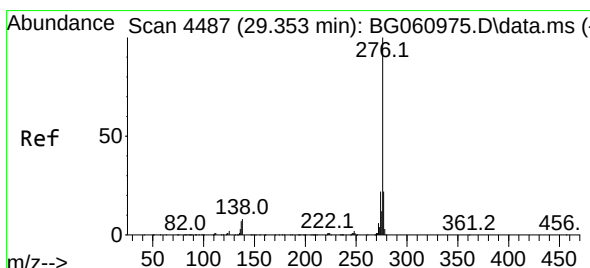
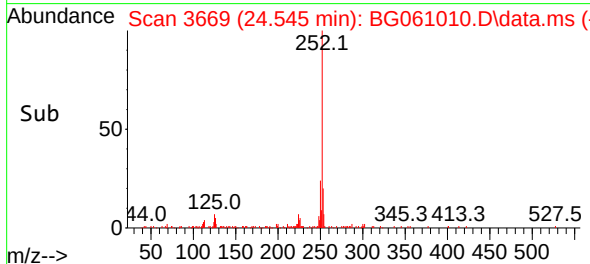
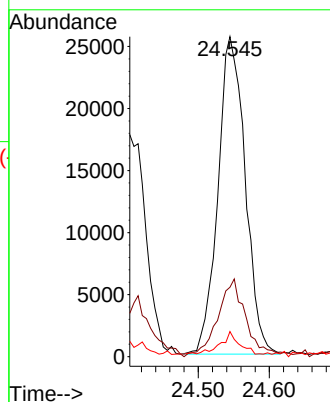
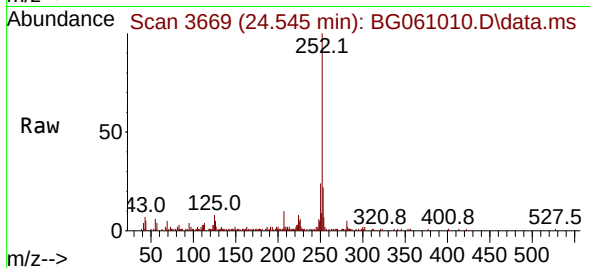
Tgt Ion:252 Resp: 68073

Ion Ratio Lower Upper

252 100

253 21.7 17.7 26.5

125 7.8 3.6 5.4#



#92

Benzo(g,h,i)perylene

Concen: 3.440 ng

RT: 29.327 min Scan# 4483

Delta R.T. -0.026 min

Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

Tgt Ion:276 Resp: 48957

Ion Ratio Lower Upper

276 100

277 26.7 18.0 27.0

138 6.4 6.5 9.7#

