

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG050824\
 Data File : BG061142.D
 Acq On : 8 May 2024 15:05
 Operator : MA/JU
 Sample : P2404-06
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TOP-SOIL-3

Quant Time: May 08 15:56:56 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG043024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 05:11:25 2024
 Response via : Initial Calibration

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

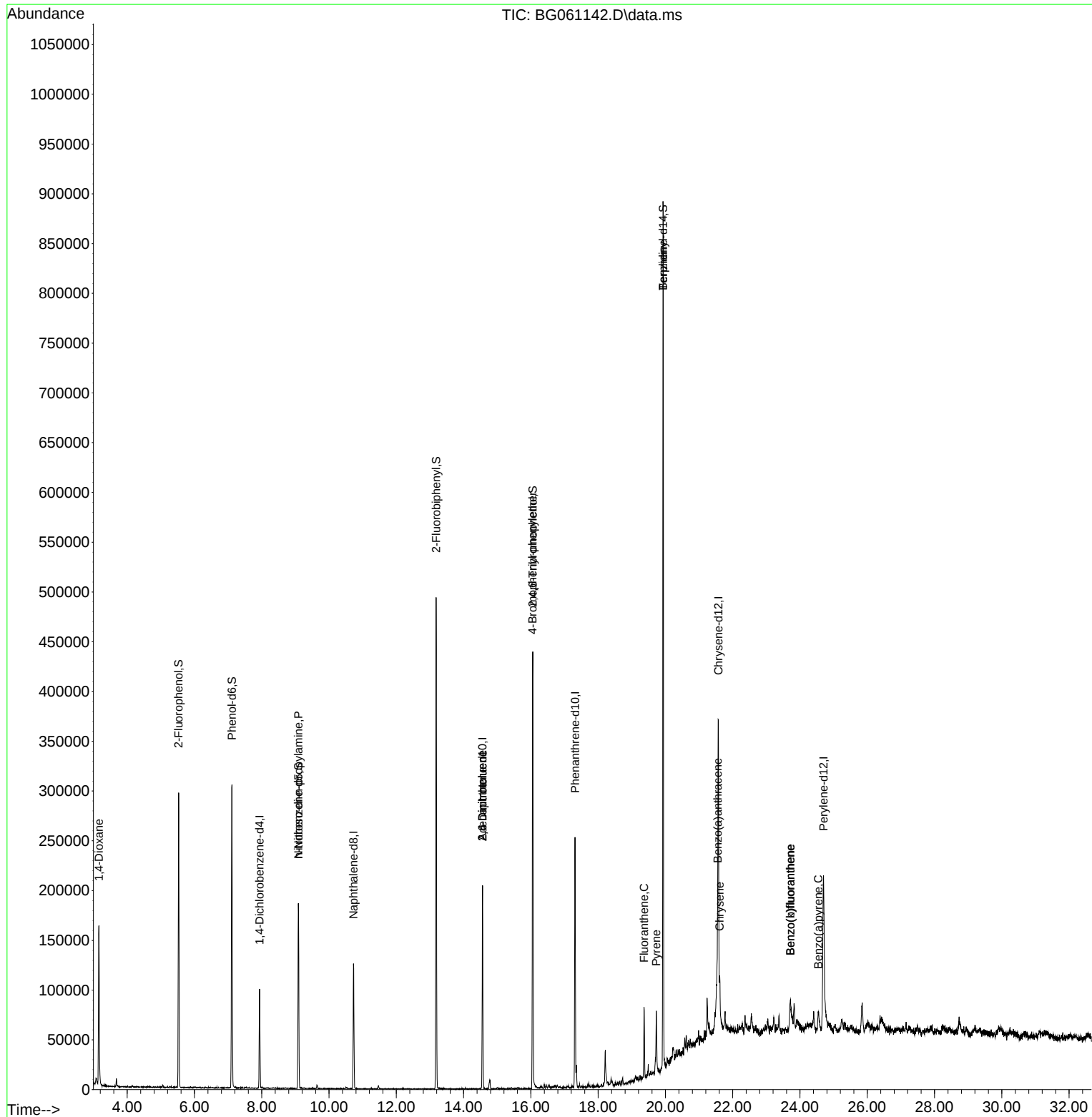
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.936	152	24829	20.000	ng	-0.03
21) Naphthalene-d8	10.727	136	97160	20.000	ng	-0.03
39) Acenaphthene-d10	14.563	164	72632	20.000	ng	-0.03
64) Phenanthrene-d10	17.313	188	167736	20.000	ng	-0.02
76) Chrysene-d12	21.573	240	162483	20.000	ng	-0.02
86) Perylene-d12	24.699	264	196793	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.527	112	103137	84.479	ng	-0.02
7) Phenol-d6	7.113	99	140063	77.553	ng	-0.02
23) Nitrobenzene-d5	9.087	82	95695	48.825	ng	-0.03
42) 2,4,6-Tribromophenol	16.056	330	101652	70.019	ng	-0.02
45) 2-Fluorobiphenyl	13.183	172	253402	51.590	ng	-0.03
79) Terphenyl-d14	19.934	244	456581	46.735	ng	-0.02
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.159	88	1459	2.956	ng	# 1
9) Benzaldehyde	7.107	77	156	Below Cal		# 3
19) n-Nitroso-di-n-propyla...	9.087	70	13776	10.193	ng	# 62
51) 2,6-Dinitrotoluene	14.563	165	9117	7.598	ng	# 15
57) 2,4-Dinitrotoluene	14.563	165	9117	5.135	ng	# 17
67) 4-Bromophenyl-phenylether	16.050	248	6600	3.340	ng	# 1
75) Fluoranthene	19.364	202	46825	4.456	ng	99
77) Benzidine	19.928	184	7435	5.060	ng	# 92
78) Pyrene	19.728	202	40953	3.964	ng	96
81) Benzo(a)anthracene	21.549	228	24207	2.277	ng	# 95
83) Chrysene	21.614	228	26987	2.709	ng	# 90
88) Benzo(b)fluoranthene	23.717	252	37407	3.402	ng	# 98
89) Benzo(k)fluoranthene	23.717	252	37407	3.536	ng	# 96
90) Benzo(a)pyrene	24.546	252	23715	2.475	ng	# 93

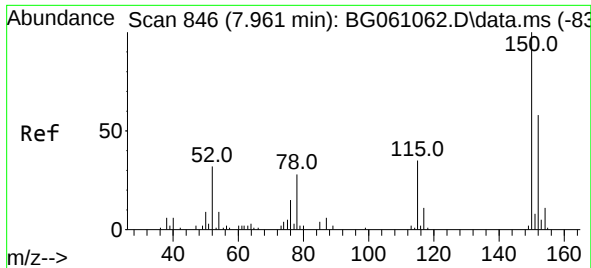
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 01 05:11:25 2024
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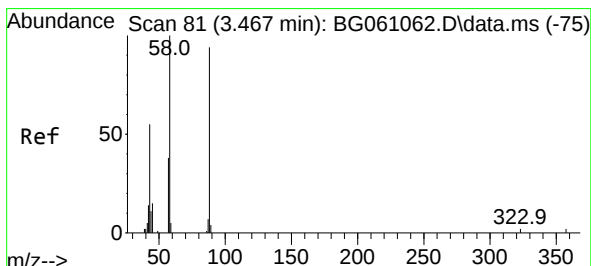
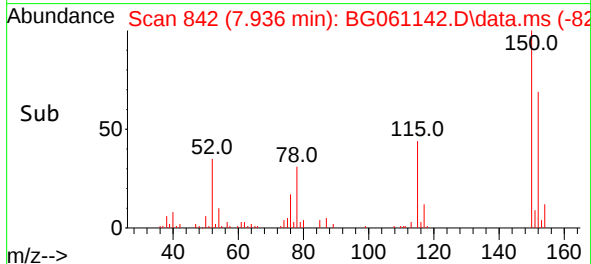
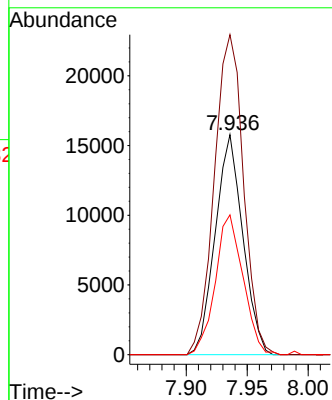
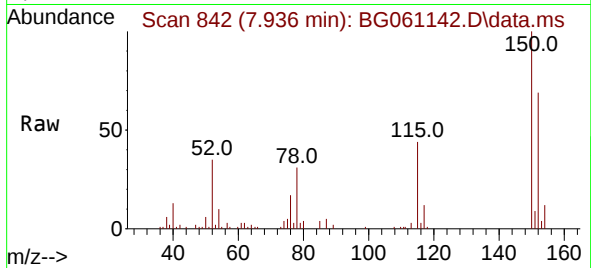




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.936 min Scan# 84
 Delta R.T. -0.025 min
 Lab File: BG061142.D
 Acq: 8 May 2024 15:05

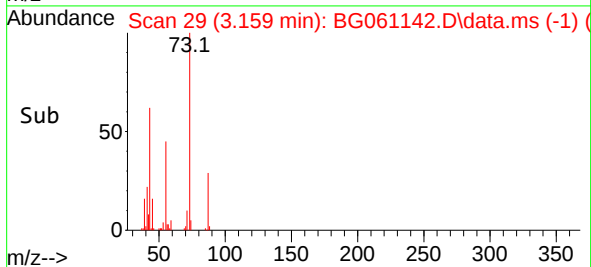
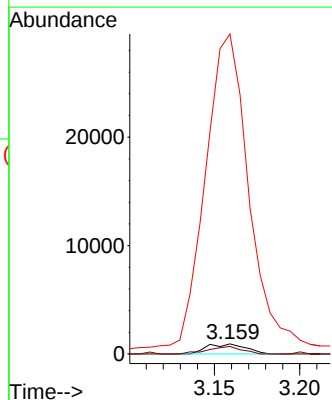
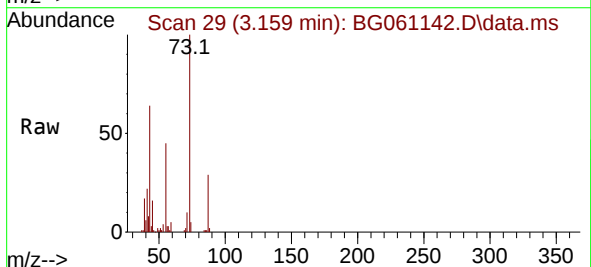
Instrument :
 BNA_G
 ClientSampleId :
 TOP-SOIL-3

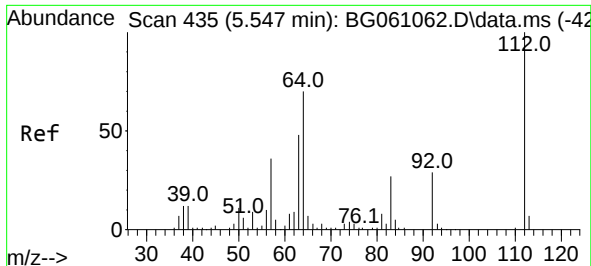
Tgt Ion:152 Resp: 24829
 Ion Ratio Lower Upper
 152 100
 150 145.4 138.3 207.5
 115 63.5 48.0 72.0



#2
 1,4-Dioxane
 Concen: 2.956 ng
 RT: 3.159 min Scan# 29
 Delta R.T. -0.308 min
 Lab File: BG061142.D
 Acq: 8 May 2024 15:05

Tgt Ion: 88 Resp: 1459
 Ion Ratio Lower Upper
 88 100
 58 64.8 81.2 121.8#
 43 3519.8 45.0 67.4#

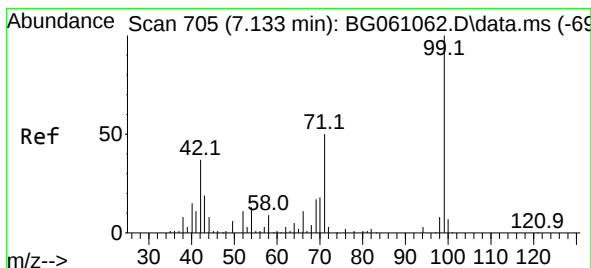
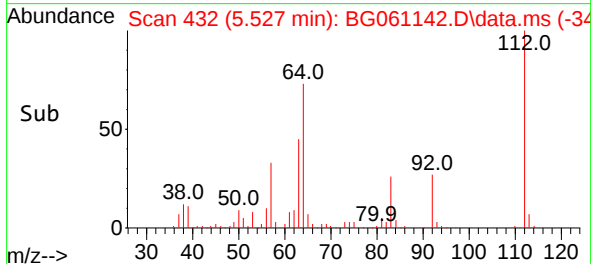
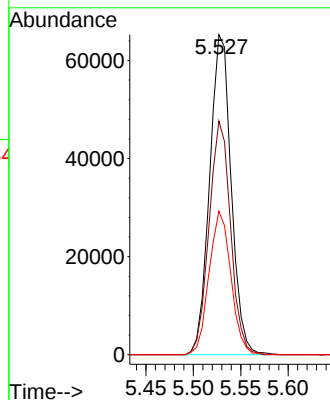
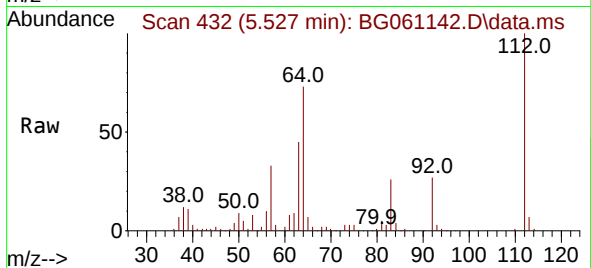




#5
2-Fluorophenol
Concen: 84.479 ng
RT: 5.527 min Scan# 41
Delta R.T. -0.020 min
Lab File: BG061142.D
Acq: 8 May 2024 15:05

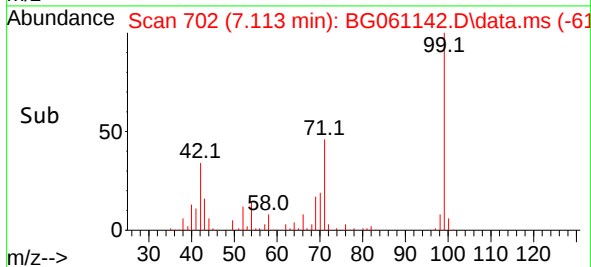
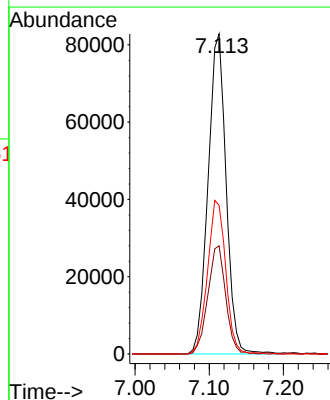
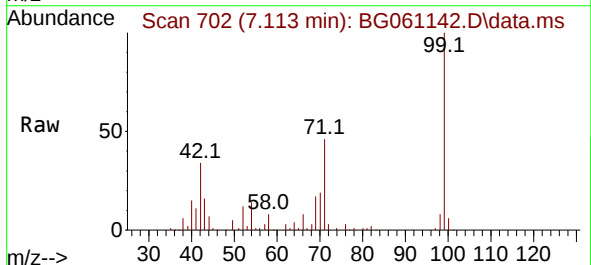
Instrument :
BNA_G
ClientSampleId :
TOP-SOIL-3

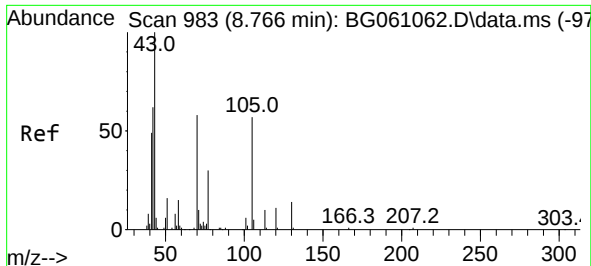
Tgt Ion:112 Resp: 103137
Ion Ratio Lower Upper
112 100
64 73.1 55.7 83.5
63 44.8 38.1 57.1



#7
Phenol-d6
Concen: 77.553 ng
RT: 7.113 min Scan# 702
Delta R.T. -0.020 min
Lab File: BG061142.D
Acq: 8 May 2024 15:05

Tgt Ion: 99 Resp: 140063
Ion Ratio Lower Upper
99 100
42 33.8 29.2 43.8
71 46.4 39.7 59.5





#19

n-Nitroso-di-n-propylamine

Concen: 10.193 ng

RT: 9.087 min Scan# 1

Delta R.T. 0.321 min

Lab File: BG061142.D

Acq: 8 May 2024 15:05

Instrument :

BNA_G

ClientSampleId :

TOP-SOIL-3

Tgt Ion: 70 Resp: 13776

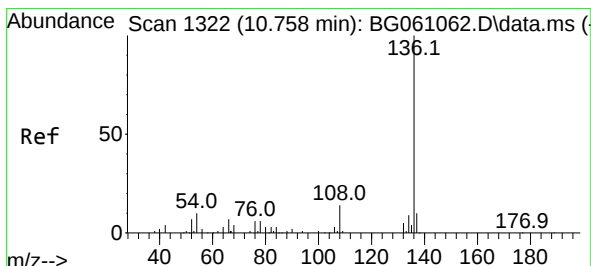
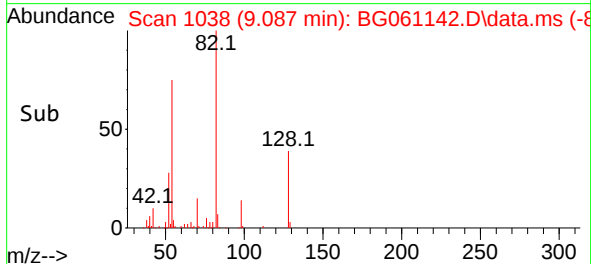
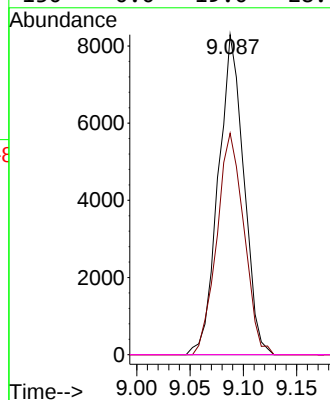
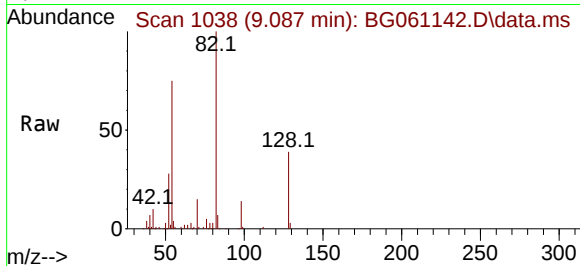
Ion Ratio Lower Upper

70 100

42 69.2 86.4 129.6#

101 0.0 7.8 11.8#

130 0.0 19.0 28.4#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.727 min Scan# 1317

Delta R.T. -0.031 min

Lab File: BG061142.D

Acq: 8 May 2024 15:05

Tgt Ion: 136 Resp: 97160

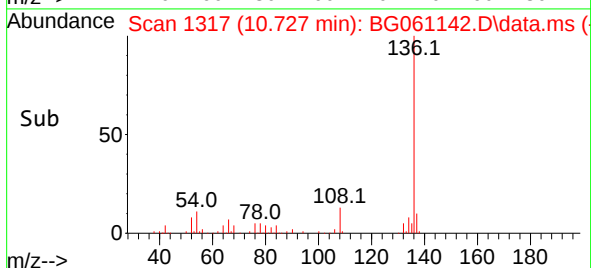
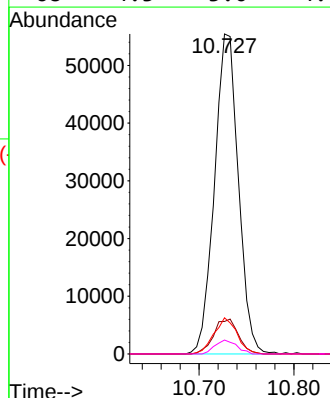
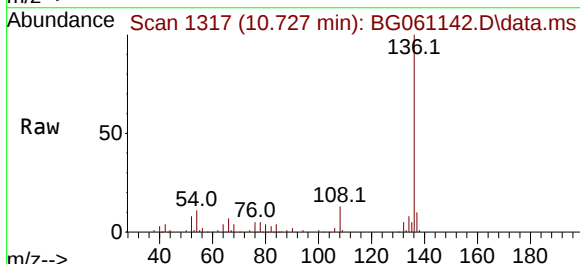
Ion Ratio Lower Upper

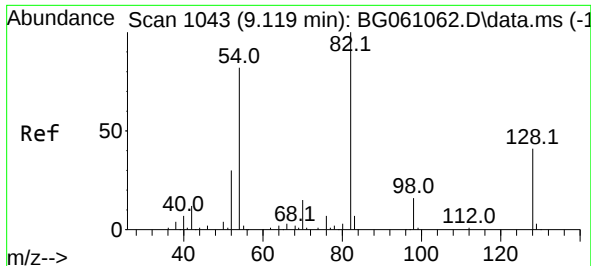
136 100

137 10.2 7.8 11.6

54 11.3 8.1 12.1

68 4.3 3.0 4.4





#23

Nitrobenzene-d5

Concen: 48.825 ng

RT: 9.087 min Scan# 1043

Delta R.T. -0.031 min

Lab File: BG061142.D

Acq: 8 May 2024 15:05

Instrument :

BNA_G

ClientSampleId :

TOP-SOIL-3

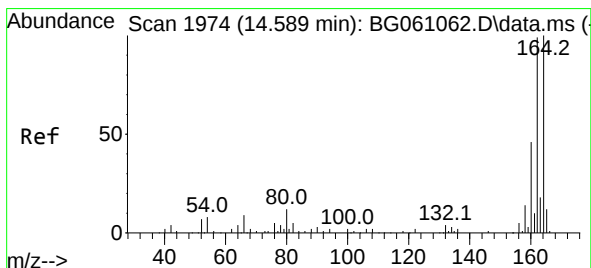
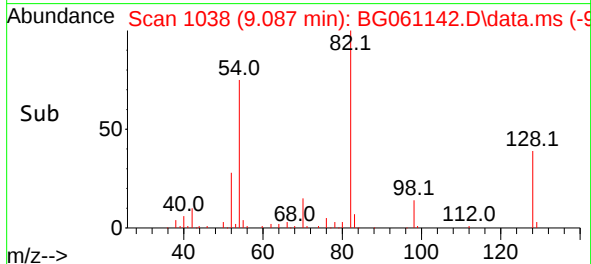
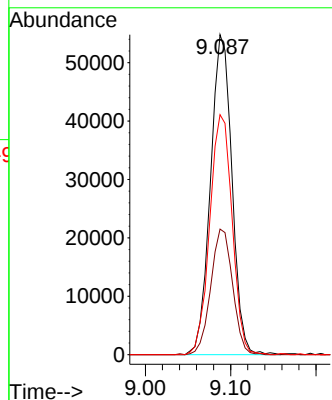
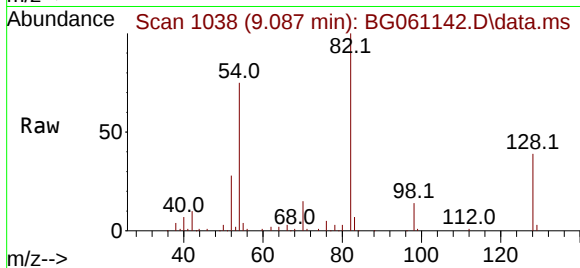
Tgt Ion: 82 Resp: 95695

Ion Ratio Lower Upper

82 100

128 39.3 32.7 49.1

54 75.0 65.6 98.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.563 min Scan# 1970

Delta R.T. -0.026 min

Lab File: BG061142.D

Acq: 8 May 2024 15:05

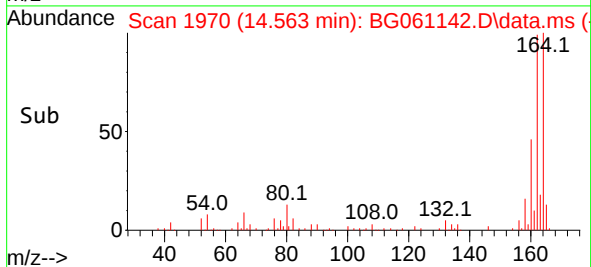
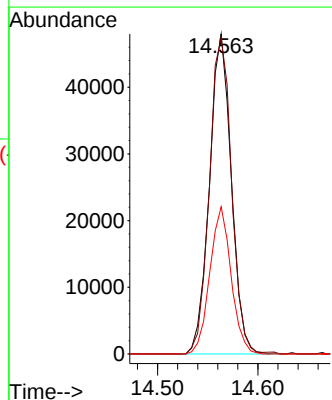
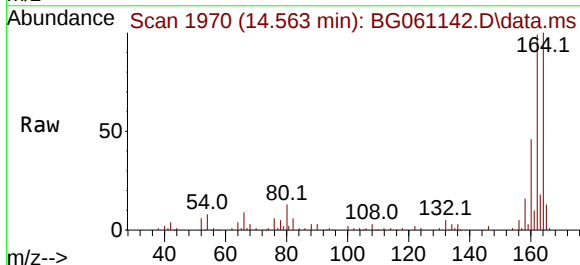
Tgt Ion:164 Resp: 72632

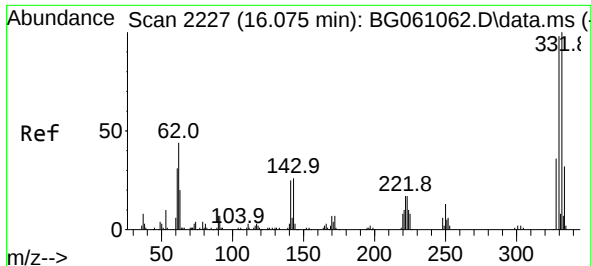
Ion Ratio Lower Upper

164 100

162 98.8 79.4 119.2

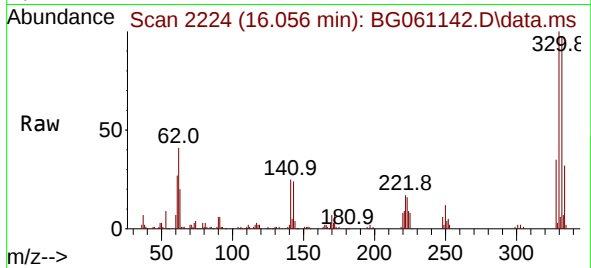
160 46.0 37.0 55.6



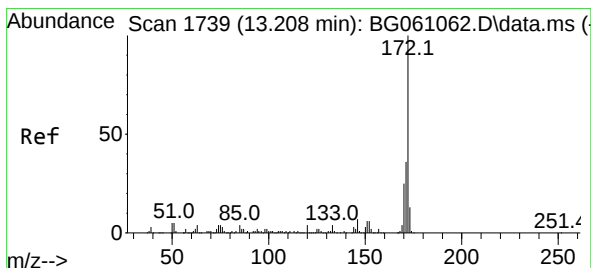
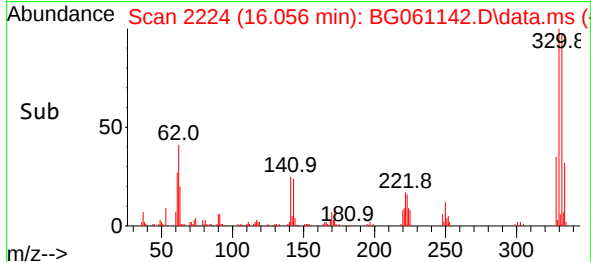
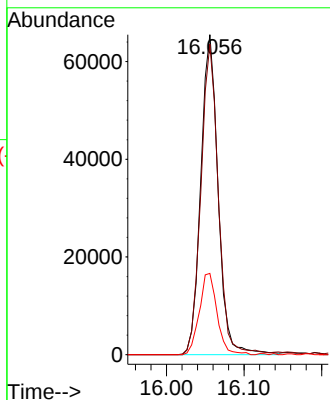


#42
2,4,6-Tribromophenol
Concen: 70.019 ng
RT: 16.056 min Scan# 21
Delta R.T. -0.020 min
Lab File: BG061142.D
Acq: 8 May 2024 15:05

Instrument :
BNA_G
ClientSampleId :
TOP-SOIL-3

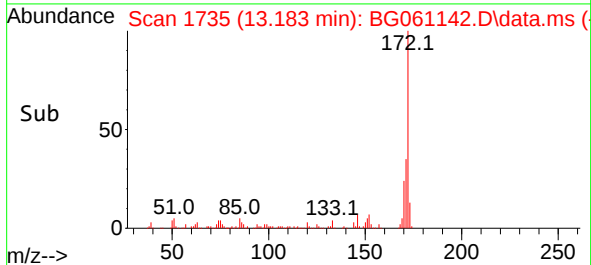
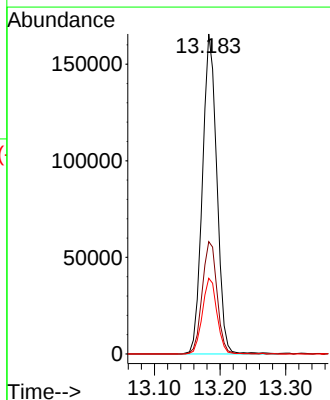
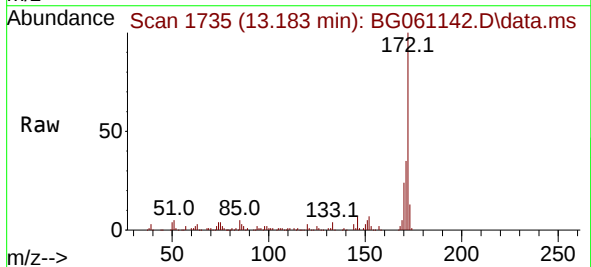


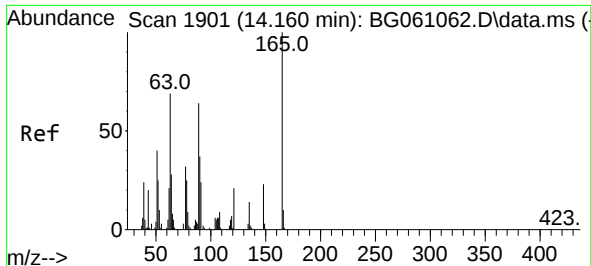
Tgt Ion:330 Resp: 101652
Ion Ratio Lower Upper
330 100
332 97.5 78.6 117.8
141 26.0 20.5 30.7



#45
2-Fluorobiphenyl
Concen: 51.590 ng
RT: 13.183 min Scan# 1735
Delta R.T. -0.025 min
Lab File: BG061142.D
Acq: 8 May 2024 15:05

Tgt Ion:172 Resp: 253402
Ion Ratio Lower Upper
172 100
171 35.1 29.0 43.6
170 23.7 20.2 30.4

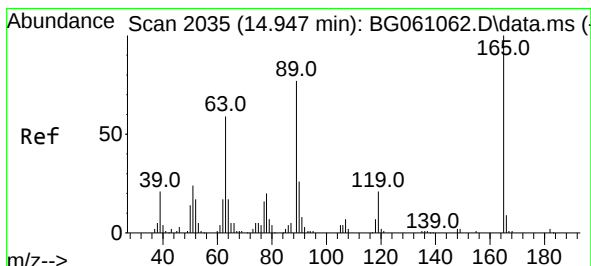
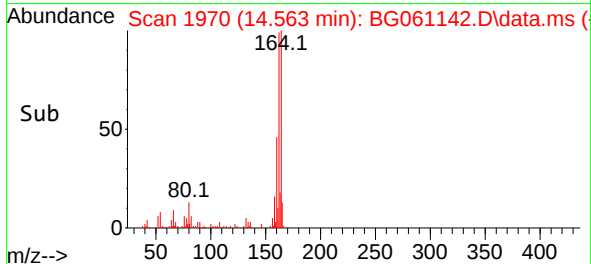
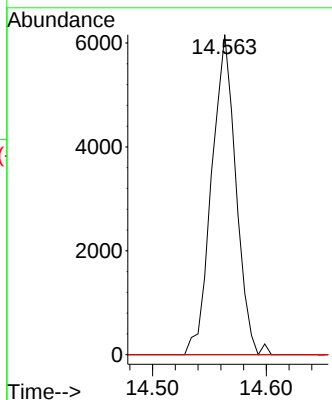
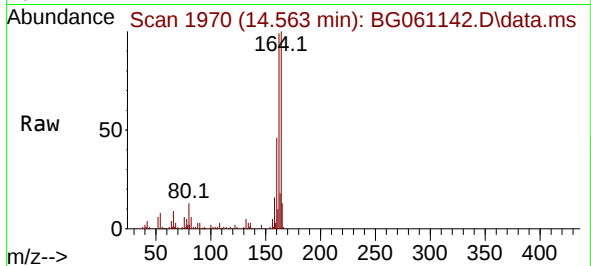




#51
2,6-Dinitrotoluene
Concen: 7.598 ng
RT: 14.563 min Scan# 1901
Delta R.T. 0.403 min
Lab File: BG061142.D
Acq: 8 May 2024 15:05

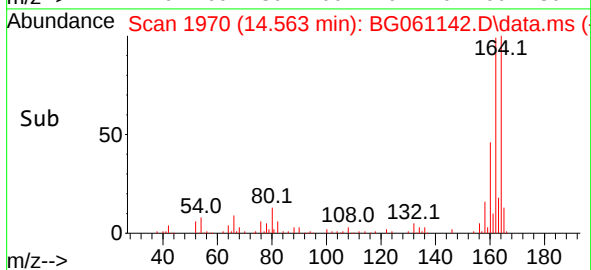
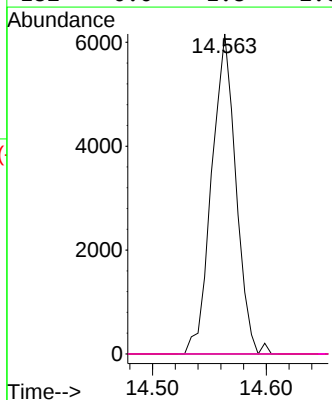
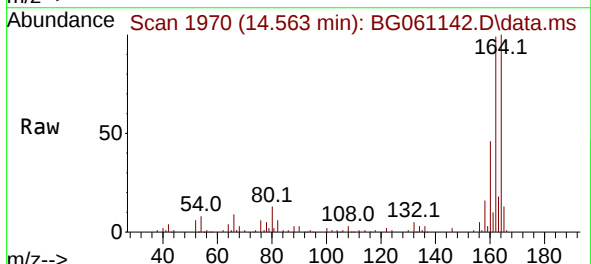
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ClientSampleId :
TOP-SOIL-3

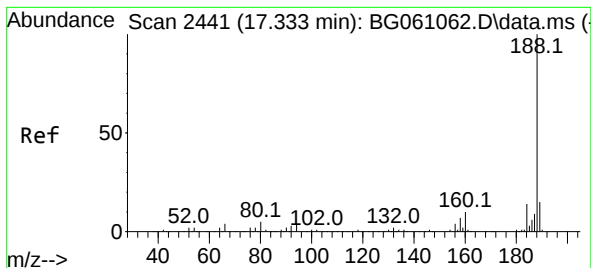
Tgt Ion:165 Resp: 9117
Ion Ratio Lower Upper
165 100
63 0.0 60.0 90.0#
89 0.0 50.9 76.3#



#57
2,4-Dinitrotoluene
Concen: 5.135 ng
RT: 14.563 min Scan# 1970
Delta R.T. -0.384 min
Lab File: BG061142.D
Acq: 8 May 2024 15:05

Tgt Ion:165 Resp: 9117
Ion Ratio Lower Upper
165 100
63 0.0 47.3 70.9#
89 0.0 61.8 92.8#
182 0.0 1.8 2.6#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.313 min Scan# 2441

Delta R.T. -0.020 min

Lab File: BG061142.D

Acq: 8 May 2024 15:05

Instrument :

BNA_G

ClientSampleId :

TOP-SOIL-3

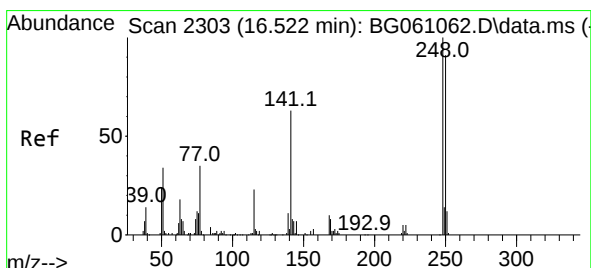
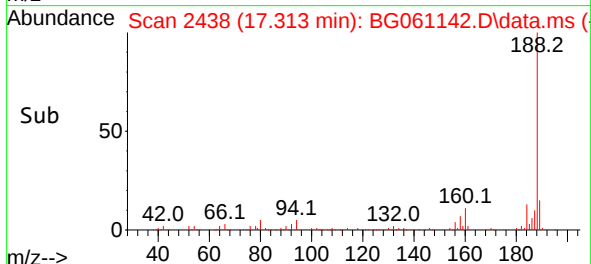
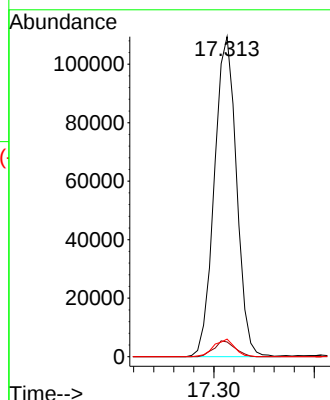
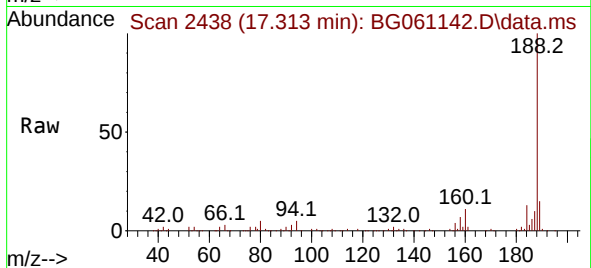
Tgt Ion:188 Resp: 167736

Ion Ratio Lower Upper

188 100

94 4.6 3.6 5.4

80 5.5 4.2 6.2



#67

4-Bromophenyl-phenylether

Concen: 3.340 ng

RT: 16.050 min Scan# 2223

Delta R.T. -0.472 min

Lab File: BG061142.D

Acq: 8 May 2024 15:05

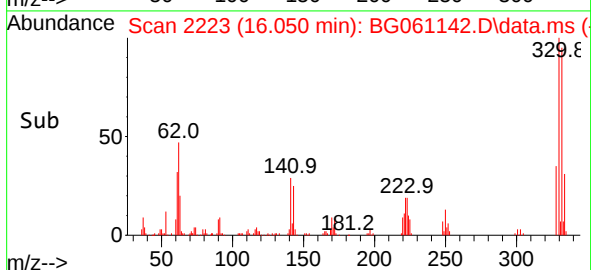
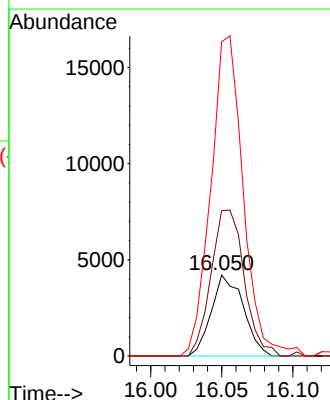
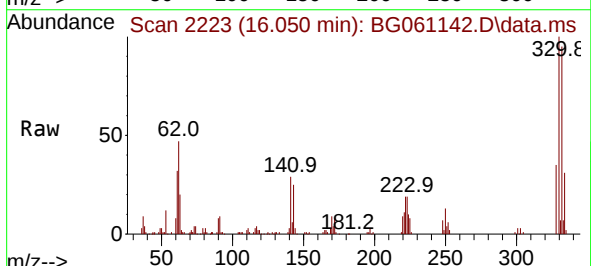
Tgt Ion:248 Resp: 6600

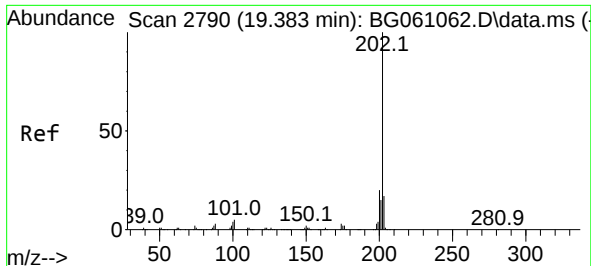
Ion Ratio Lower Upper

248 100

250 179.4 73.0 109.4#

141 387.7 50.8 76.2#

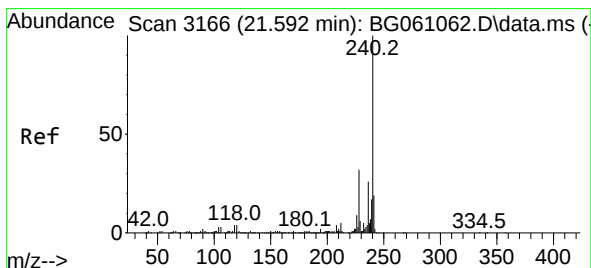
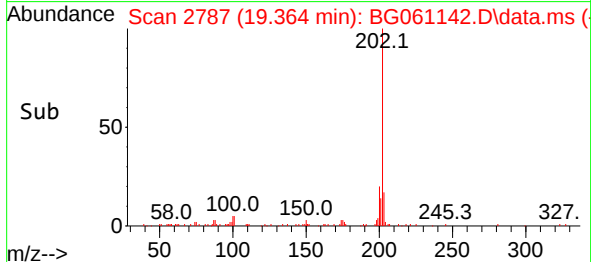
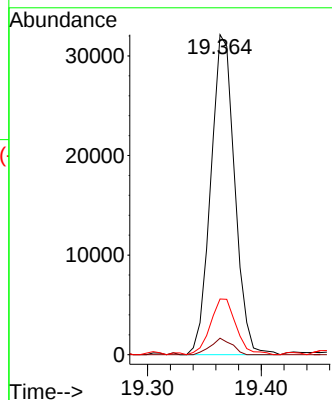
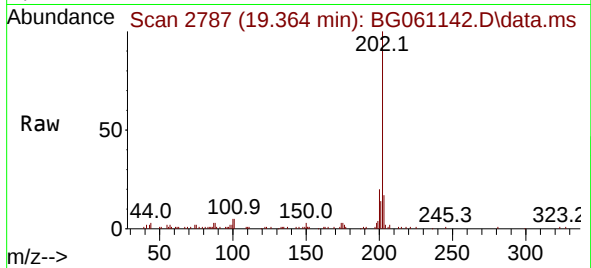




#75
Fluoranthene
Concen: 4.456 ng
RT: 19.364 min Scan# 21
Delta R.T. -0.020 min
Lab File: BG061142.D
Acq: 8 May 2024 15:05

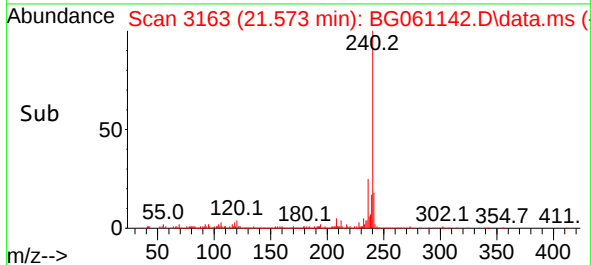
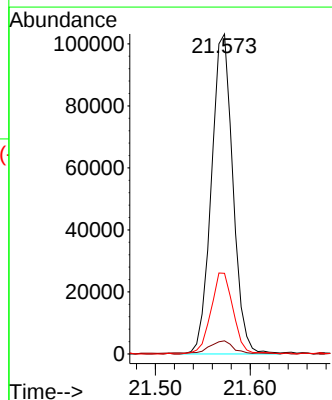
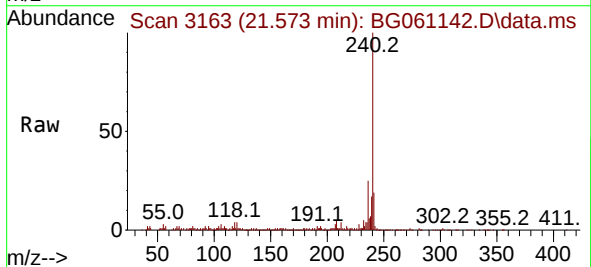
Instrument :
BNA_G
ClientSampleId :
TOP-SOIL-3

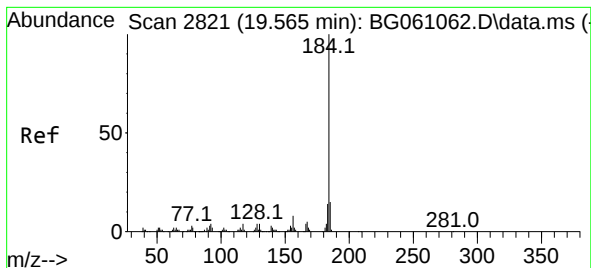
Tgt Ion:202 Resp: 46825
Ion Ratio Lower Upper
202 100
101 5.2 0.0 24.7
203 17.4 0.0 37.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.573 min Scan# 3163
Delta R.T. -0.020 min
Lab File: BG061142.D
Acq: 8 May 2024 15:05

Tgt Ion:240 Resp: 162483
Ion Ratio Lower Upper
240 100
120 4.1 3.2 4.8
236 25.2 21.0 31.6





#77

Benzidine

Concen: 5.060 ng

RT: 19.928 min Scan# 2883

Delta R.T. 0.363 min

Lab File: BG061142.D

Acq: 8 May 2024 15:05

Instrument :

BNA_G

ClientSampleId :

TOP-SOIL-3

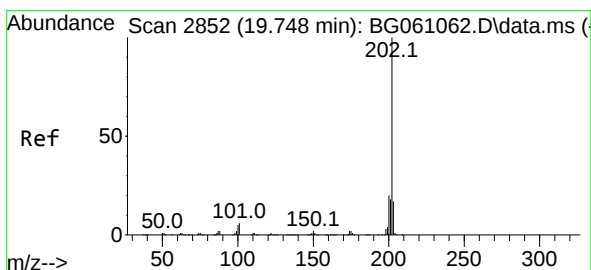
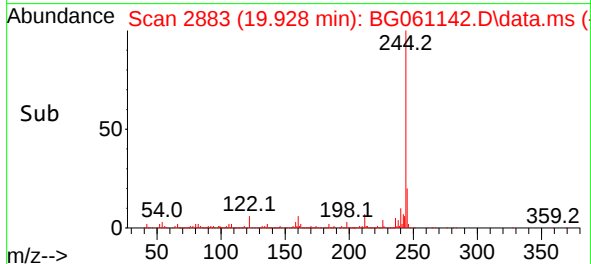
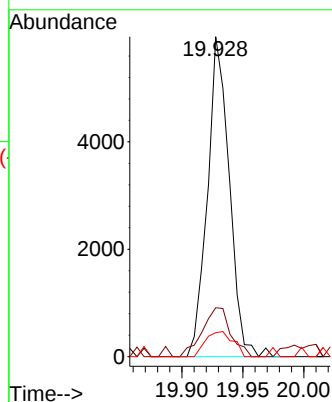
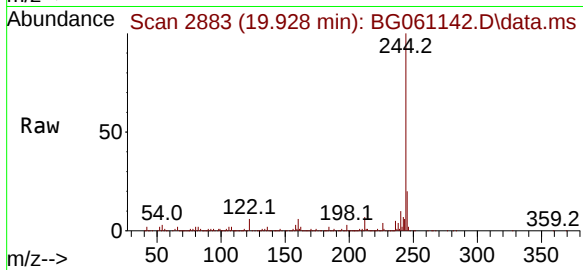
Tgt Ion:184 Resp: 7435

Ion Ratio Lower Upper

184 100

185 15.3 12.0 18.0

183 7.5 10.9 16.3#



#78

Pyrene

Concen: 3.964 ng

RT: 19.728 min Scan# 2849

Delta R.T. -0.020 min

Lab File: BG061142.D

Acq: 8 May 2024 15:05

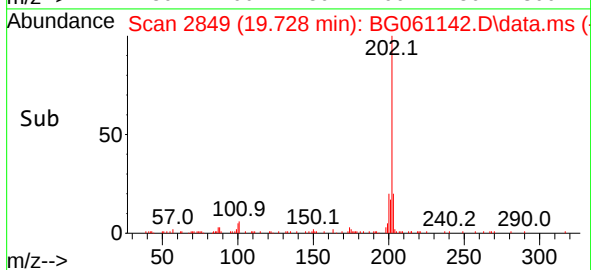
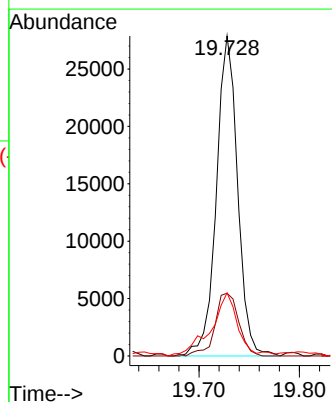
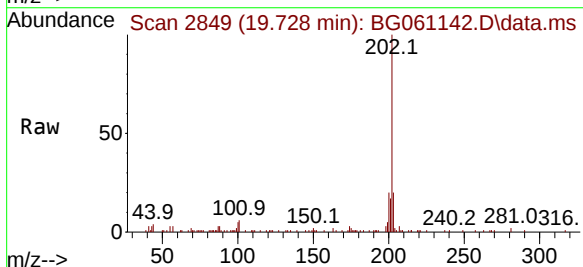
Tgt Ion:202 Resp: 40953

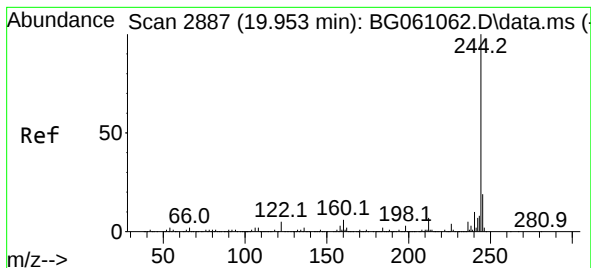
Ion Ratio Lower Upper

202 100

200 19.6 16.2 24.4

203 19.7 13.3 19.9





#79

Terphenyl-d14

Concen: 46.735 ng

RT: 19.934 min Scan# 21

Delta R.T. -0.020 min

Lab File: BG061142.D

Acq: 8 May 2024 15:05

Instrument :

BNA_G

ClientSampleId :

TOP-SOIL-3

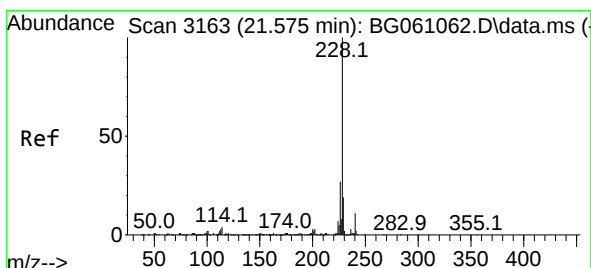
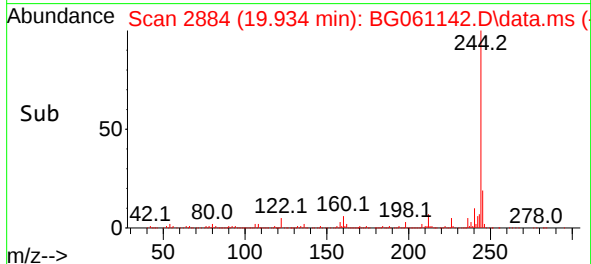
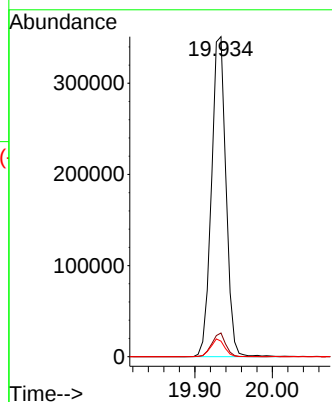
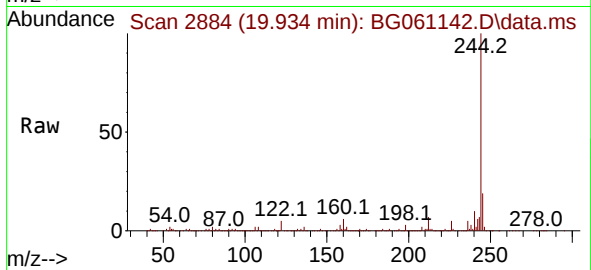
Tgt Ion:244 Resp: 456581

Ion Ratio Lower Upper

244 100

212 7.4 5.7 8.5

122 4.8 4.2 6.2



#81

Benzo(a)anthracene

Concen: 2.277 ng

RT: 21.549 min Scan# 3159

Delta R.T. -0.026 min

Lab File: BG061142.D

Acq: 8 May 2024 15:05

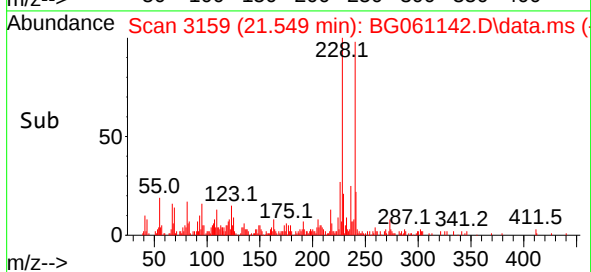
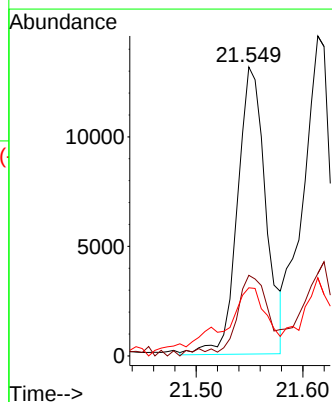
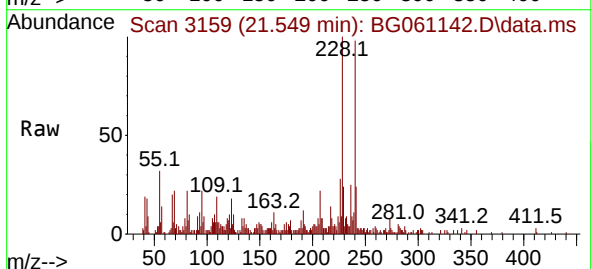
Tgt Ion:228 Resp: 24207

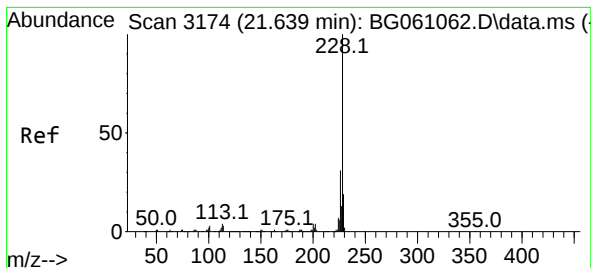
Ion Ratio Lower Upper

228 100

226 27.9 21.6 32.4

229 23.6 15.0 22.4#





#83

Chrysene

Concen: 2.709 ng

RT: 21.614 min Scan# 31

Delta R.T. -0.025 min

Lab File: BG061142.D

Acq: 8 May 2024 15:05

Instrument :

BNA_G

ClientSampleId :

TOP-SOIL-3

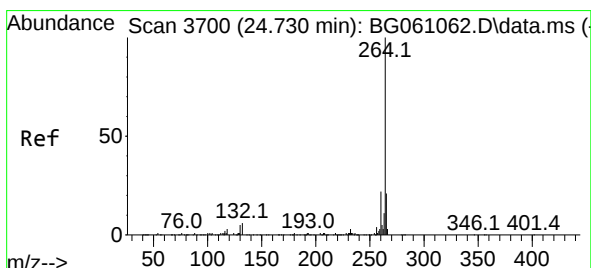
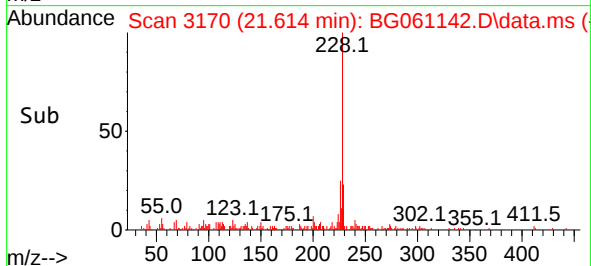
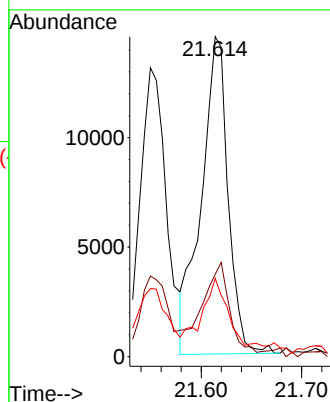
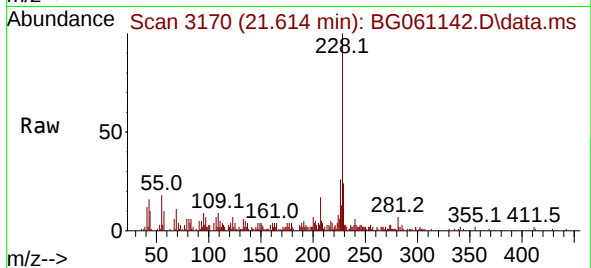
Tgt Ion:228 Resp: 26987

Ion Ratio Lower Upper

228 100

226 25.8 24.4 36.6

229 24.4 14.8 22.2#



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.699 min Scan# 3695

Delta R.T. -0.031 min

Lab File: BG061142.D

Acq: 8 May 2024 15:05

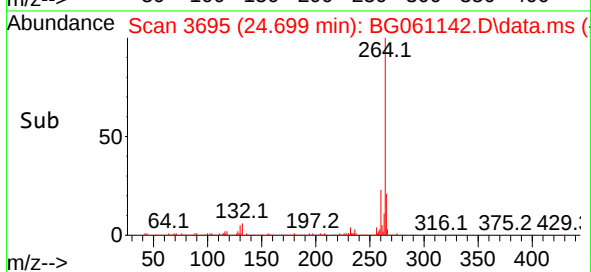
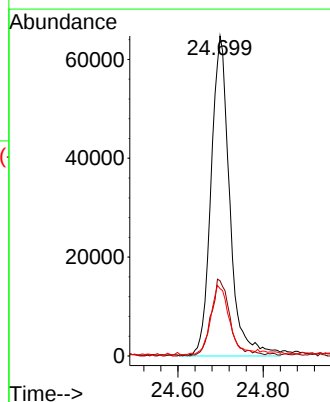
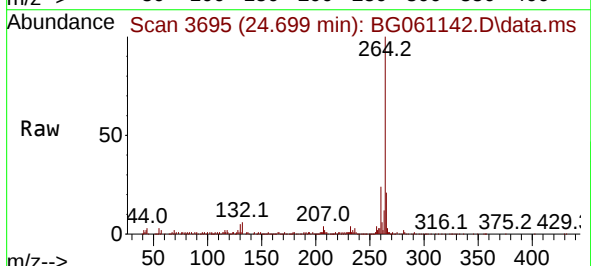
Tgt Ion:264 Resp: 196793

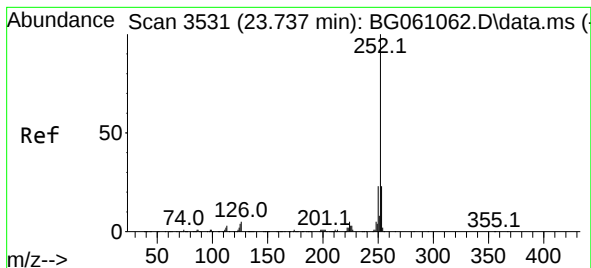
Ion Ratio Lower Upper

264 100

260 23.5 17.7 26.5

265 21.0 16.4 24.6





#88

Benzo(b)fluoranthene

Concen: 3.402 ng

RT: 23.717 min Scan# 3528

Delta R.T. -0.020 min

Lab File: BG061142.D

Acq: 8 May 2024 15:05

Instrument :

BNA_G

ClientSampleId :

TOP-SOIL-3

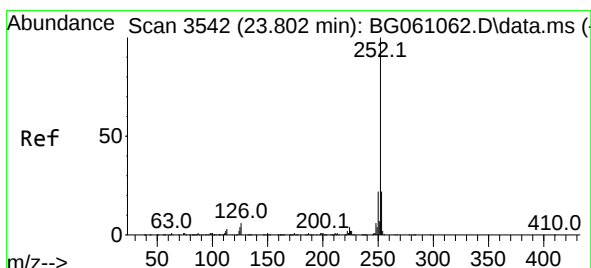
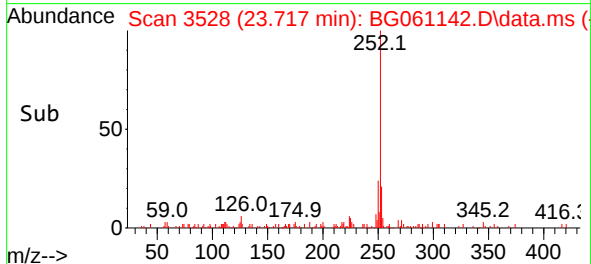
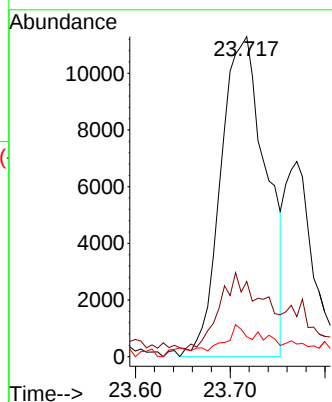
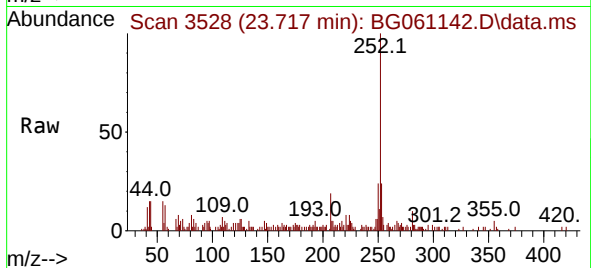
Tgt Ion:252 Resp: 37407

Ion Ratio Lower Upper

252 100

253 23.5 18.2 27.2

125 6.2 3.4 5.0#



#89

Benzo(k)fluoranthene

Concen: 3.536 ng

RT: 23.717 min Scan# 3528

Delta R.T. -0.084 min

Lab File: BG061142.D

Acq: 8 May 2024 15:05

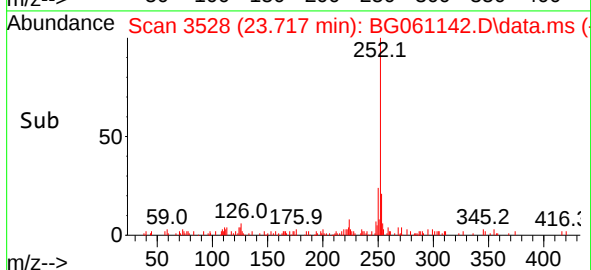
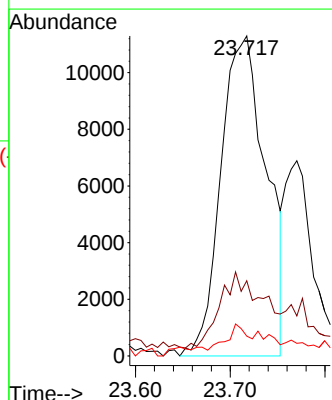
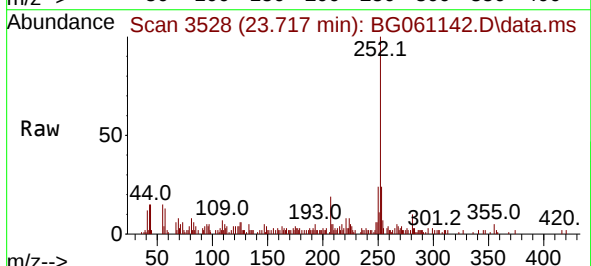
Tgt Ion:252 Resp: 37407

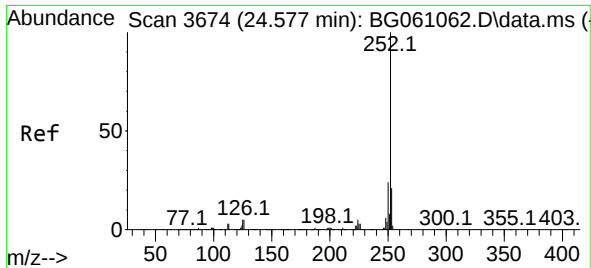
Ion Ratio Lower Upper

252 100

253 23.5 17.3 25.9

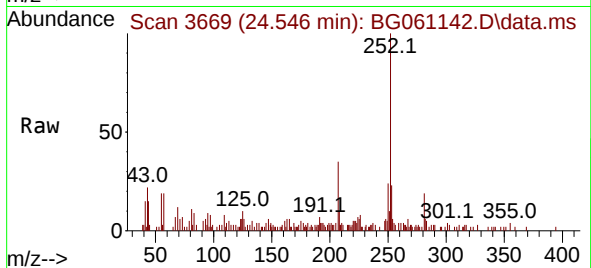
125 6.2 3.2 4.8#





#90
 Benzo(a)pyrene
 Concen: 2.475 ng
 RT: 24.546 min Scan# 30
 Delta R.T. -0.031 min
 Lab File: BG061142.D
 Acq: 8 May 2024 15:05

Instrument :
 BNA_G
 ClientSampleId :
 TOP-SOIL-3



Tgt Ion:	252	Resp:	23715
Ion	Ratio	Lower	Upper
252	100		
253	23.5	16.9	25.3
125	9.9	3.8	5.8#

