

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

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/24/2024
 Supervised By :mohammad ahmed 04/27/2024

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
71) Phenanthrene	17.359	178	27562	2.664	ng	96
75) Fluoranthene	19.368	202	112123	8.166	ng	96
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	23.769	252	37456m	2.586	ng	
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

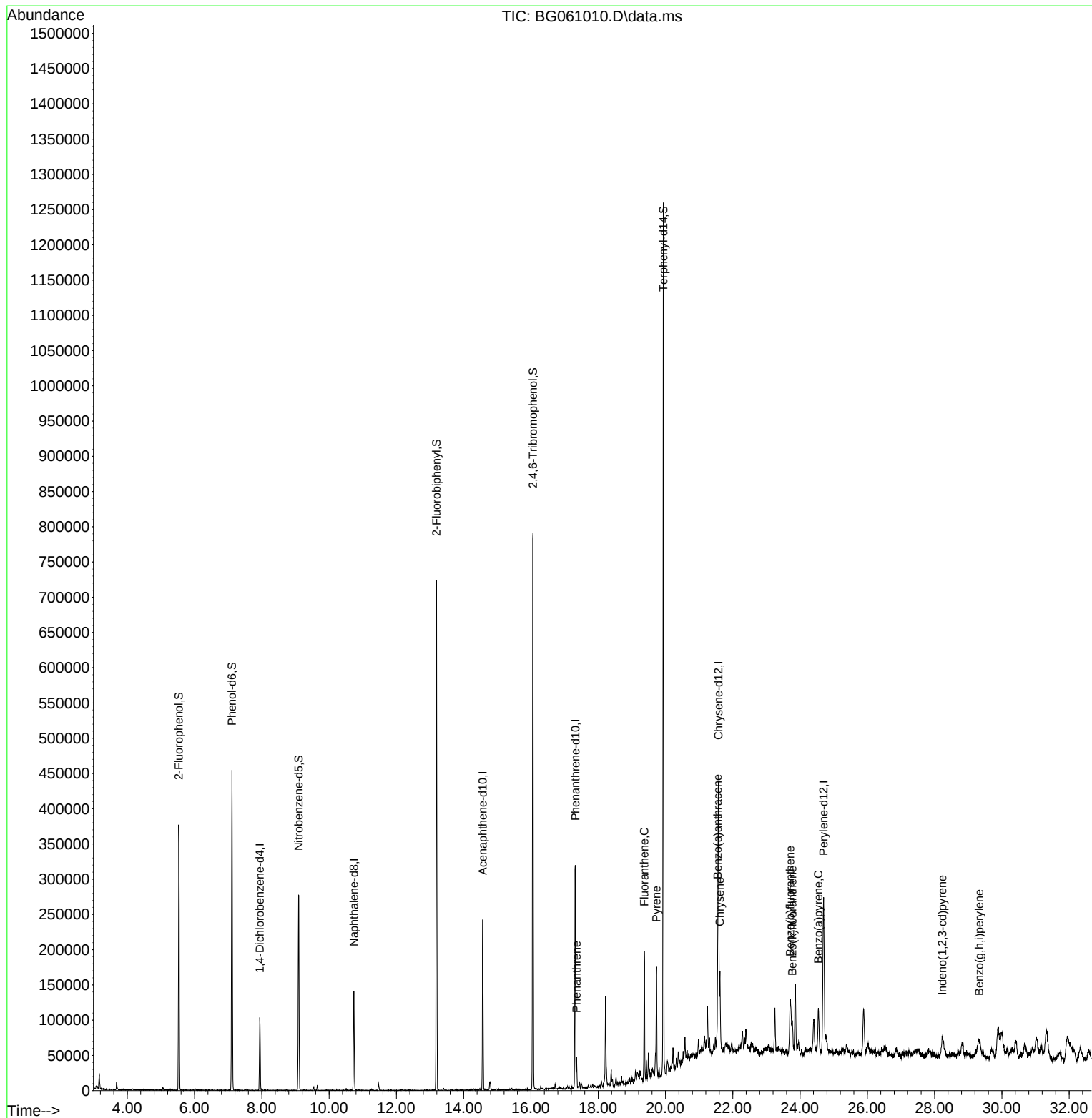
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042324\
Data File : BG061010.D
Acq On : 23 Apr 2024 16:33
Operator : MA/JU
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ALS Vial : 9 Sample Multiplier: 1

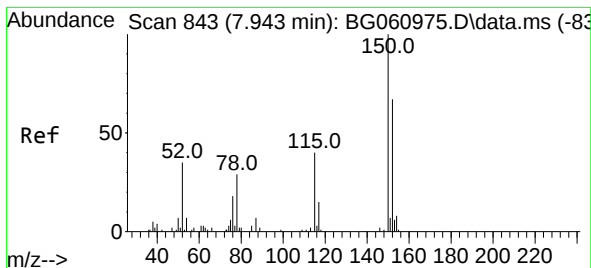
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-LKWD-DENALI-5

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
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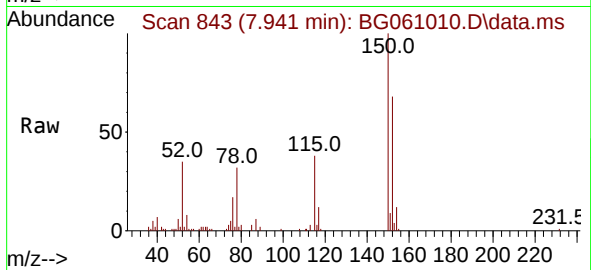
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/27/2024





#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

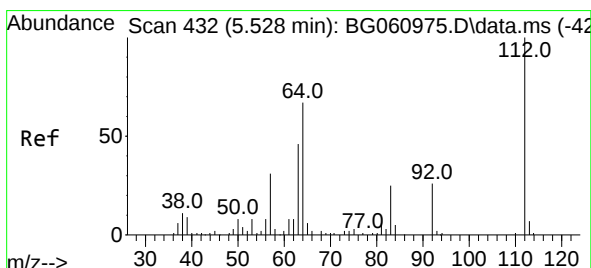
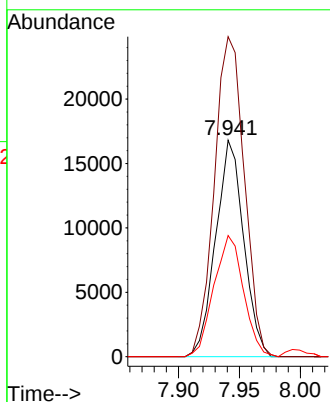
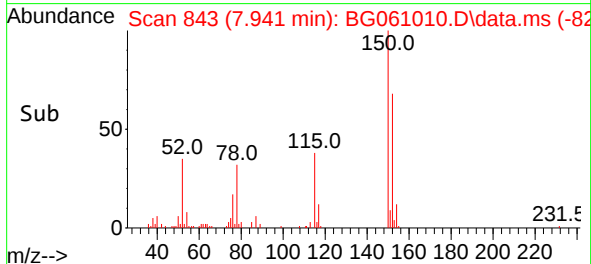
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-LKWD-DENALI-5



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

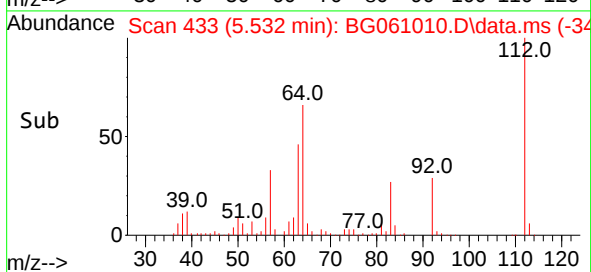
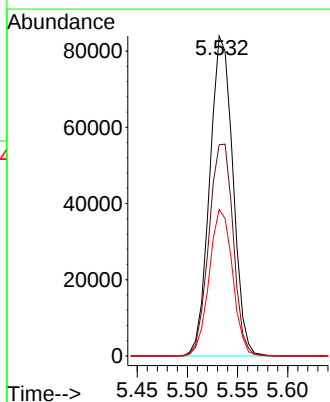
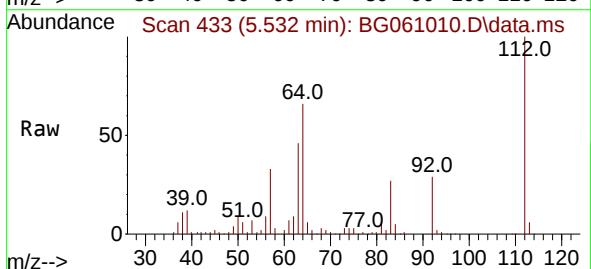
Manual Integrations
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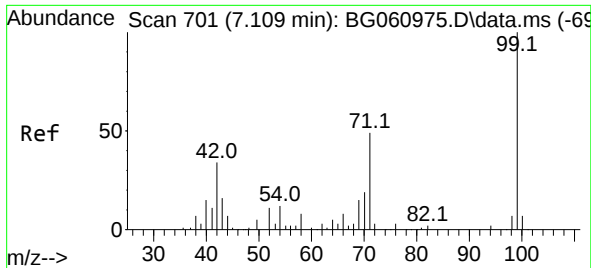
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/27/2024



#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

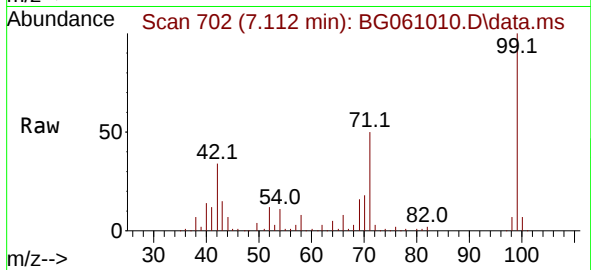
Tgt Ion:112 Resp: 135152
Ion Ratio Lower Upper
112 100
64 66.0 53.7 80.5
63 45.8 37.0 55.6





#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

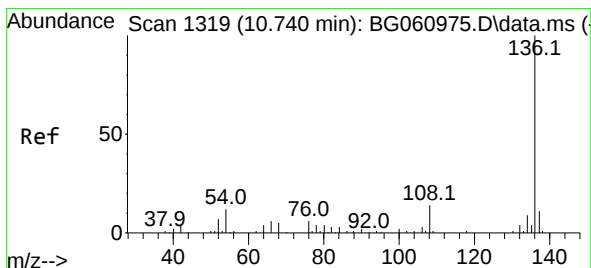
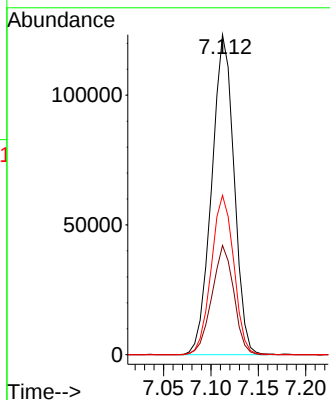
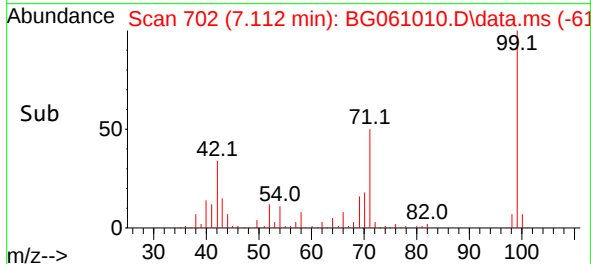
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-LKWD-DENALI-5



Tgt Ion: 99 Resp: 20252
Ion Ratio Lower Upper
99 100
42 34.1 27.2 40.8
71 49.8 38.8 58.2

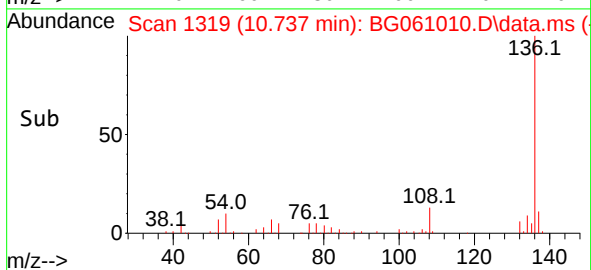
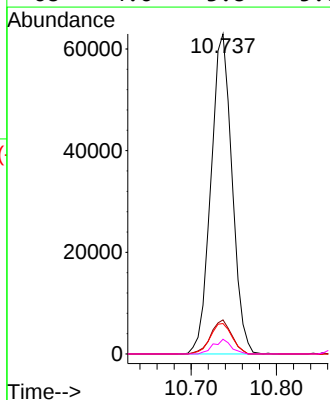
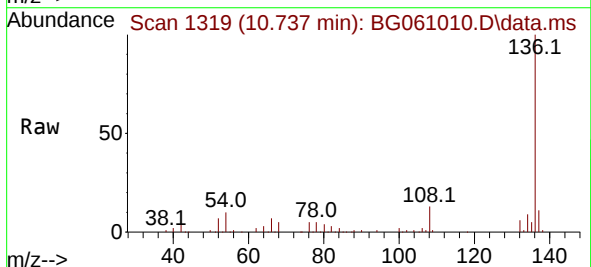
Manual Integrations
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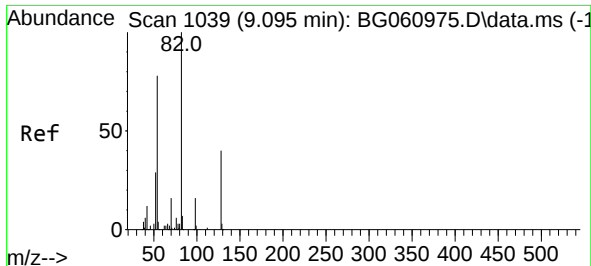
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/27/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.737 min Scan# 1319
Delta R.T. -0.003 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

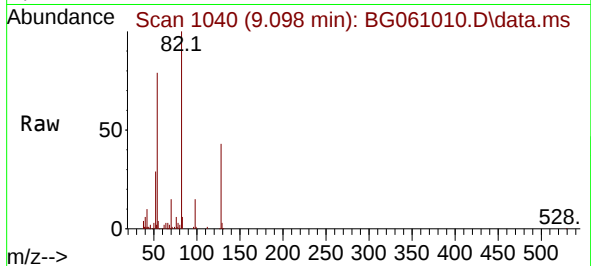
Tgt Ion:136 Resp: 108328
Ion Ratio Lower Upper
136 100
137 10.7 8.5 12.7
54 9.5 9.4 14.0
68 4.6 3.8 5.6





#23
Nitrobenzene-d5
Concen: 59.096 ng
RT: 9.098 min Scan# 1040
Delta R.T. 0.004 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

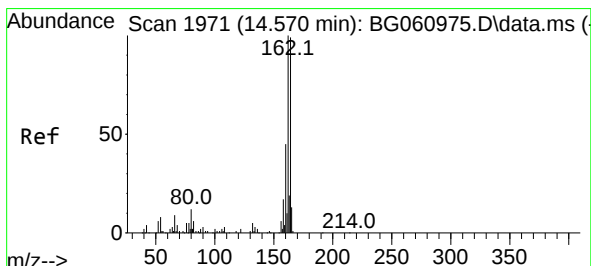
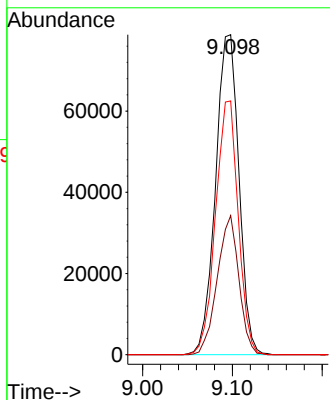
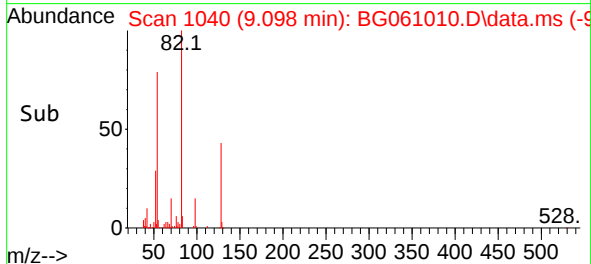
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-LKWD-DENALI-5



Tgt Ion: 82 Resp: 142485
Ion Ratio Lower Upper
82 100
128 43.4 32.1 48.1
54 79.3 62.3 93.5

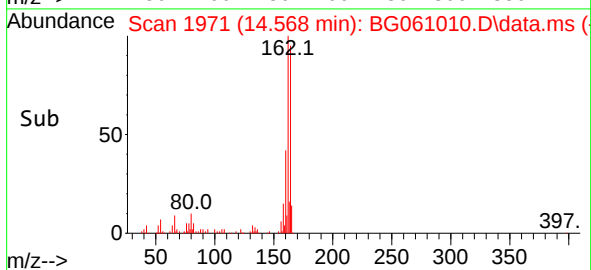
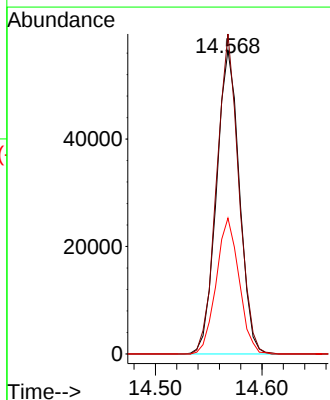
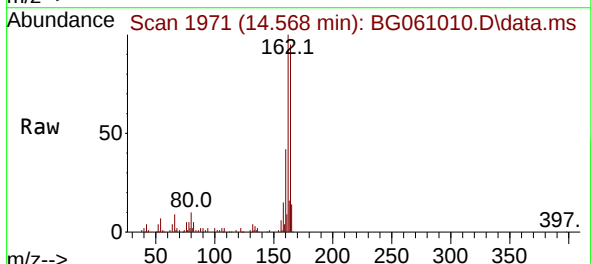
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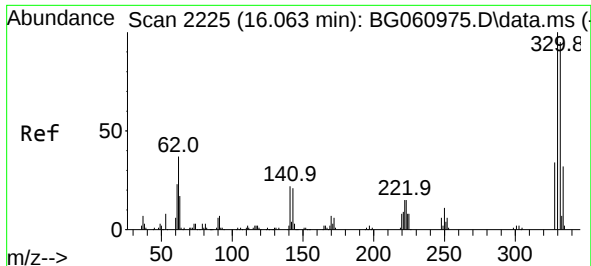
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/27/2024



#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

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





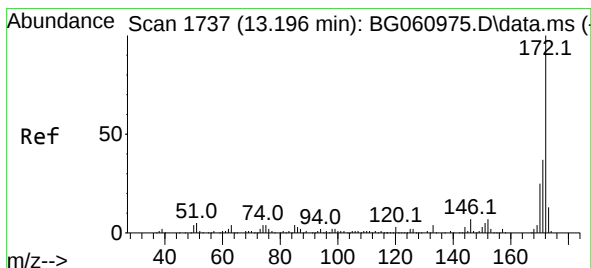
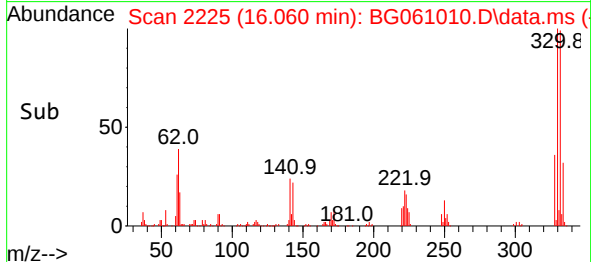
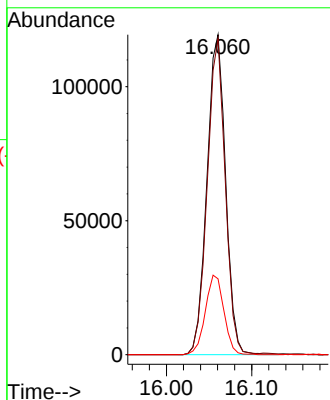
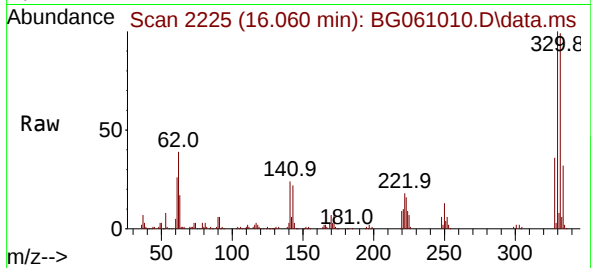
#42
2,4,6-Tribromophenol
Concen: 98.360 ng
RT: 16.060 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

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

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

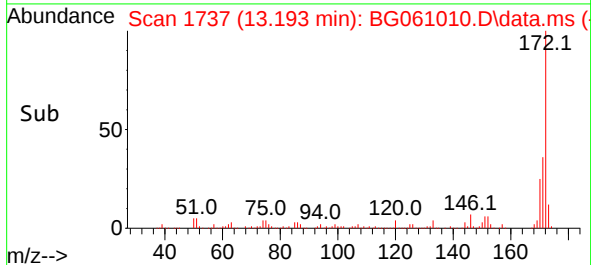
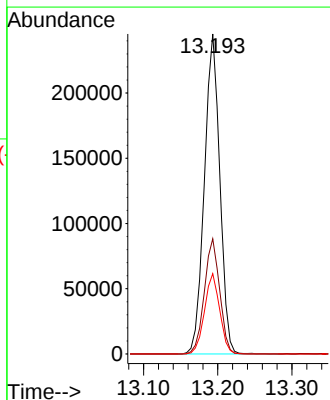
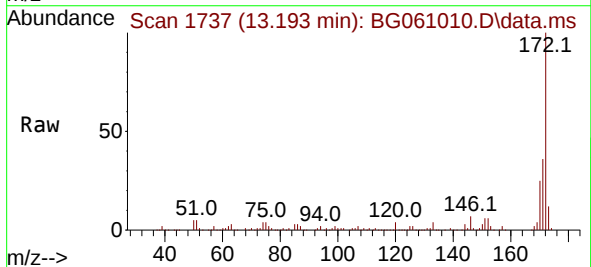
Manual Integrations
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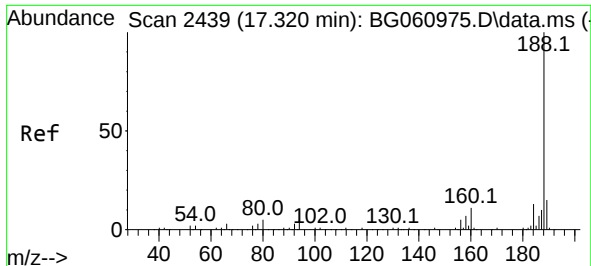
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/27/2024



#45
2-Fluorobiphenyl
Concen: 58.343 ng
RT: 13.193 min Scan# 1737
Delta R.T. -0.002 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

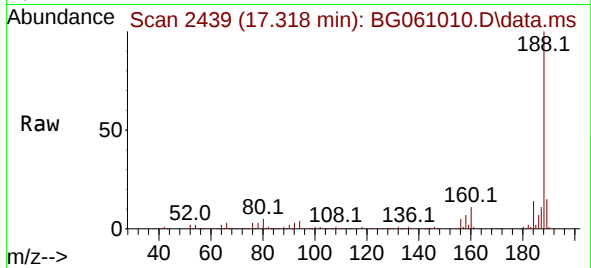
Tgt Ion:172 Resp: 354387
Ion Ratio Lower Upper
172 100
171 36.0 29.3 43.9
170 25.1 20.1 30.1





#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

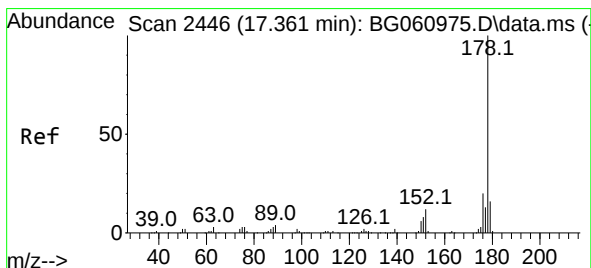
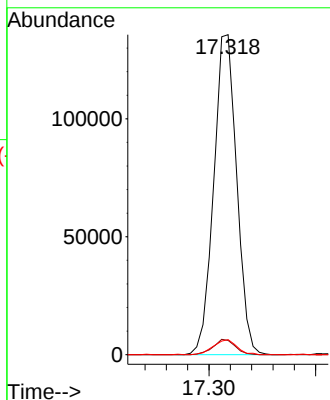
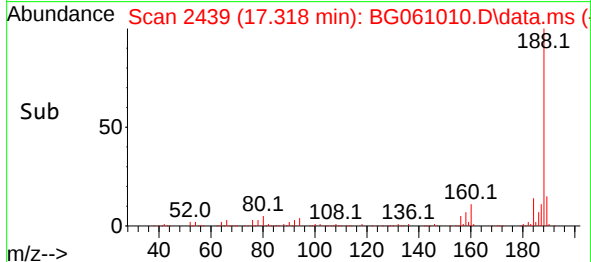
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-LKWD-DENALI-5



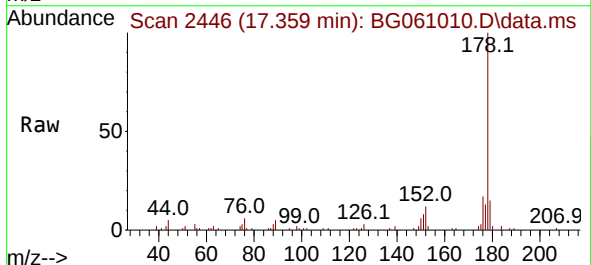
Tgt Ion:188 Resp: 202688
Ion Ratio Lower Upper
188 100
94 4.4 4.1 6.1
80 4.7 4.0 6.0

Manual Integrations
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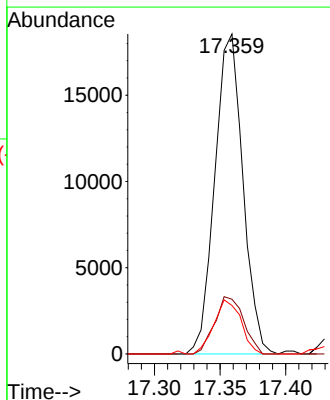
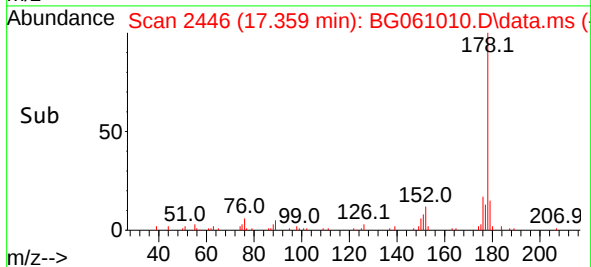
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/27/2024

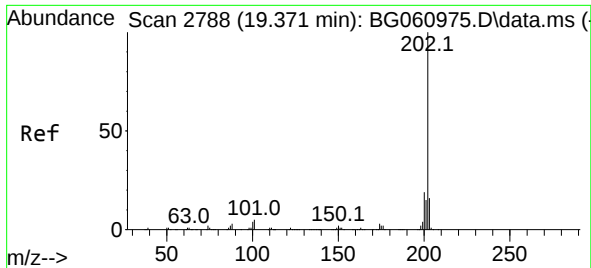


#71
Phenanthrene
Concen: 2.664 ng
RT: 17.359 min Scan# 2446
Delta R.T. -0.002 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33



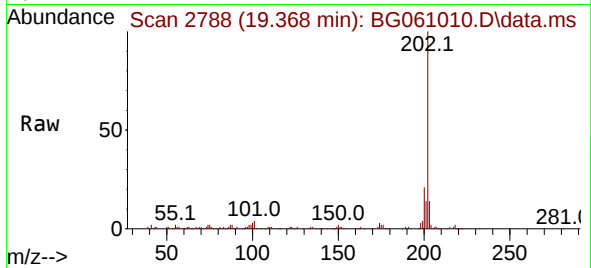
Tgt Ion:178 Resp: 27562
Ion Ratio Lower Upper
178 100
176 17.1 16.0 24.0
179 15.1 12.5 18.7





#75
Fluoranthene
Concen: 8.166 ng
RT: 19.368 min Scan# 21
Delta R.T. -0.002 min
Lab File: BG061010.D
Acq: 23 Apr 2024 16:33

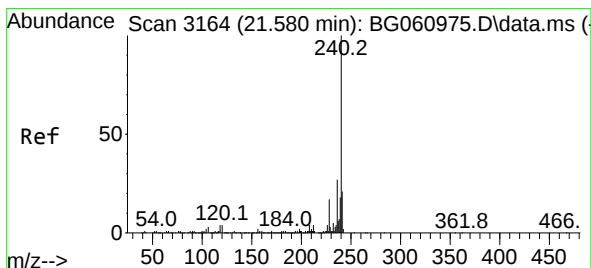
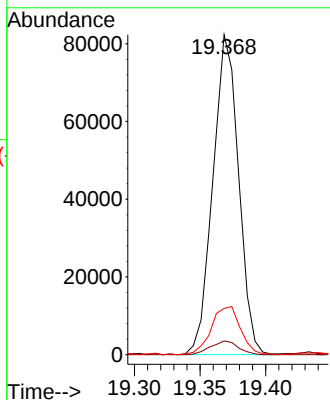
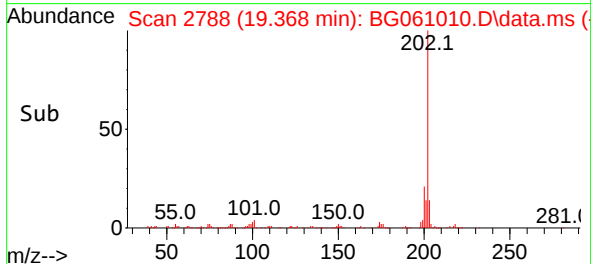
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-LKWD-DENALI-5



Tgt Ion:202 Resp: 11212
Ion Ratio Lower Upper
202 100
101 4.3 0.0 24.9
203 14.4 0.0 36.2

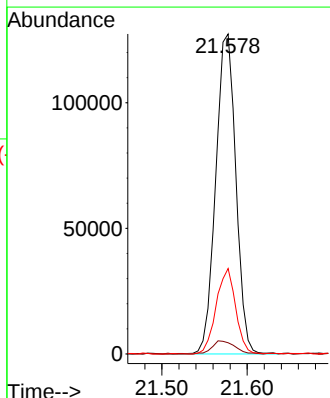
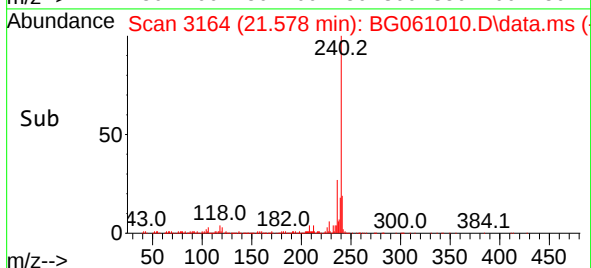
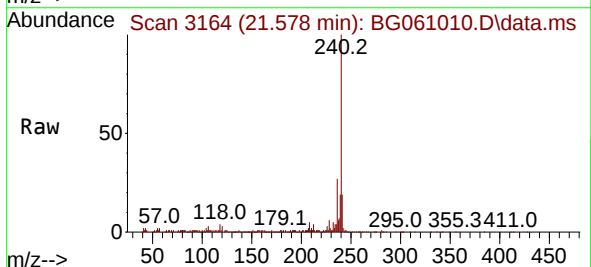
Manual Integrations
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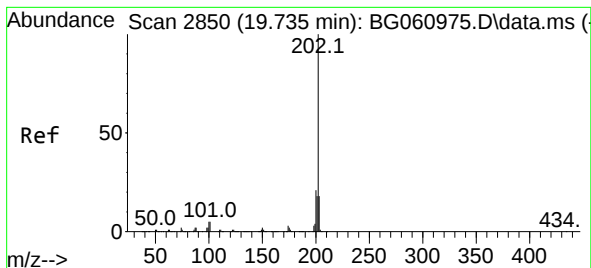
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/27/2024



#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

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





#78

Pyrene

Concen: 7.392 ng

RT: 19.733 min Scan# 2850

Delta R.T. -0.002 min

Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

Instrument :

BNA_G

ClientSampleId :

TOPSOIL-LKWD-DENALI-5

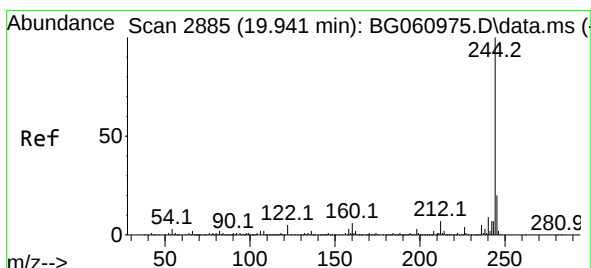
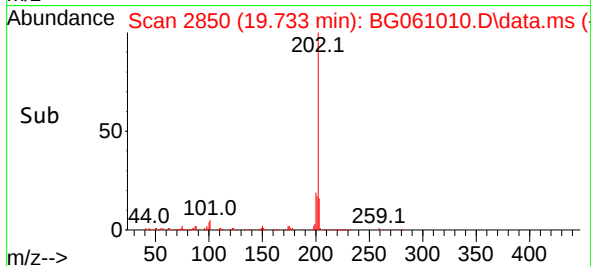
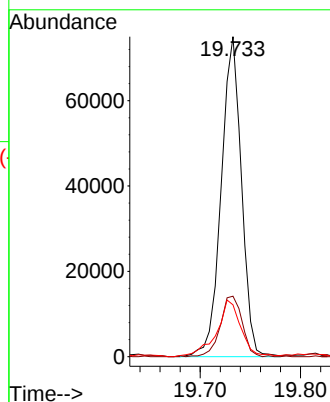
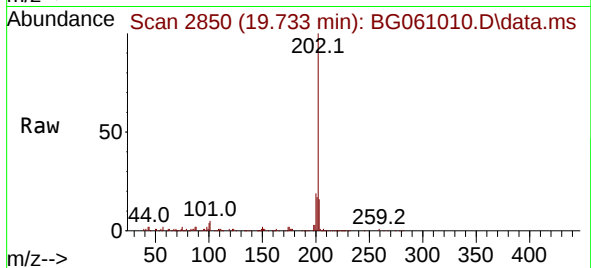
Tgt Ion:	202	Resp:	105118
Ion Ratio	Lower	Upper	
202	100		
200	18.9	16.8	25.2
203	16.2	14.2	21.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/24/2024

Supervised By :mohammad ahmed 04/27/2024



#79

Terphenyl-d14

Concen: 47.122 ng

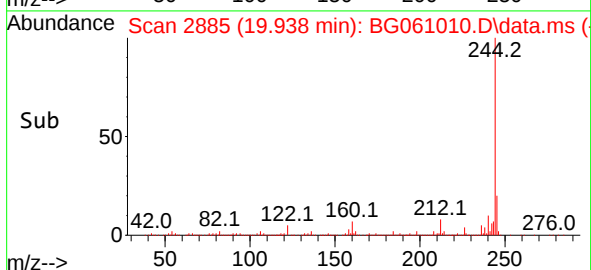
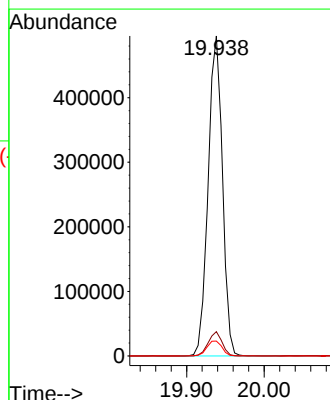
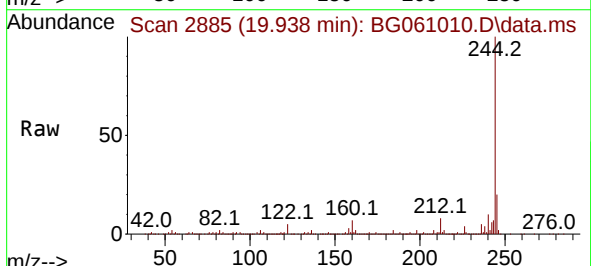
RT: 19.938 min Scan# 2885

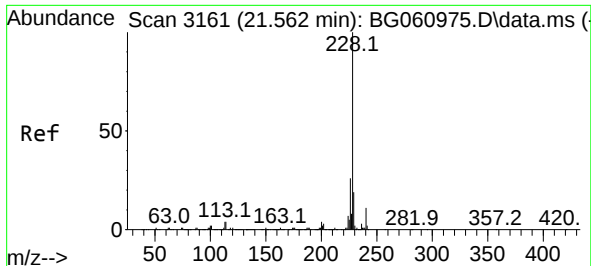
Delta R.T. -0.002 min

Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

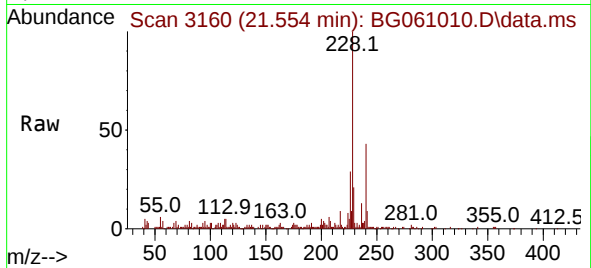
Tgt Ion:	244	Resp:	633989
Ion Ratio	Lower	Upper	
244	100		
212	7.6	5.9	8.9
122	4.6	4.2	6.2





#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

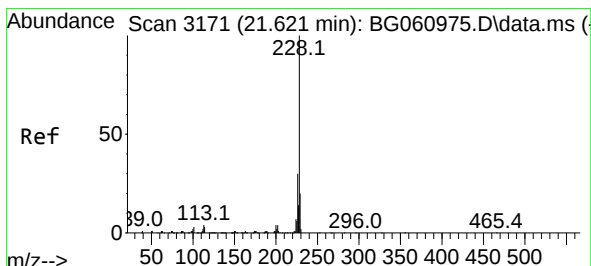
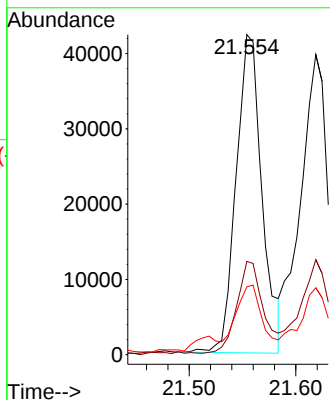
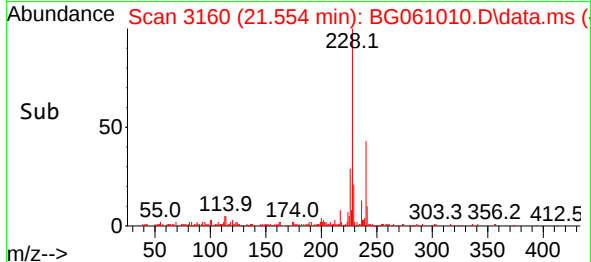
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-LKWD-DENALI-5



Tgt Ion:228 Resp: 7146
Ion Ratio Lower Upper
228 100
226 29.1 21.0 31.4
229 21.2 15.0 22.4

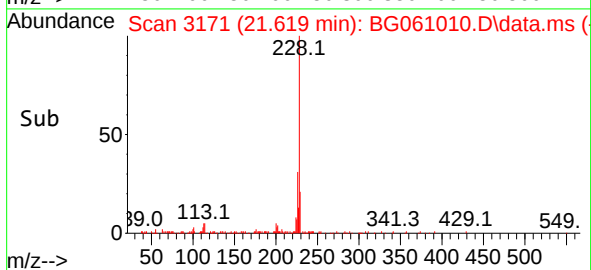
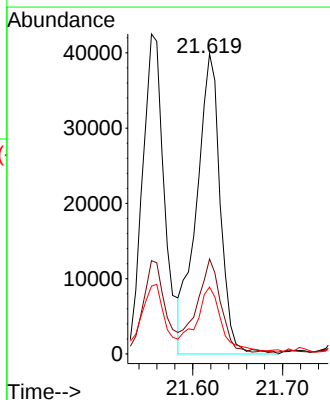
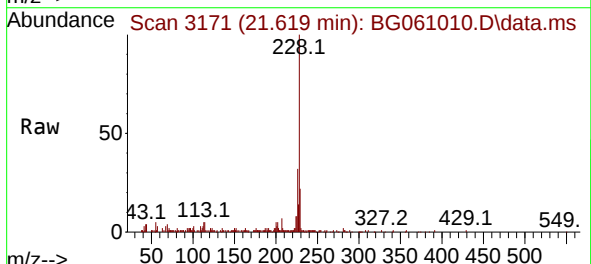
Manual Integrations
APPROVED

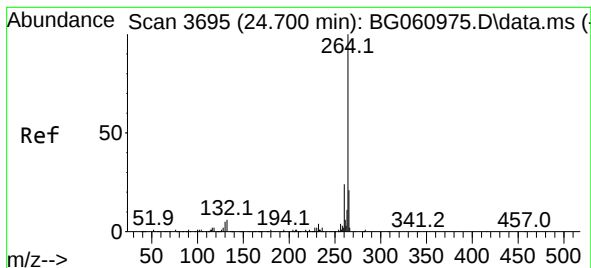
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/27/2024



#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# 30

Delta R.T. -0.002 min

Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

Instrument :

BNA_G

ClientSampleId :

TOPSOIL-LKWD-DENALI-5

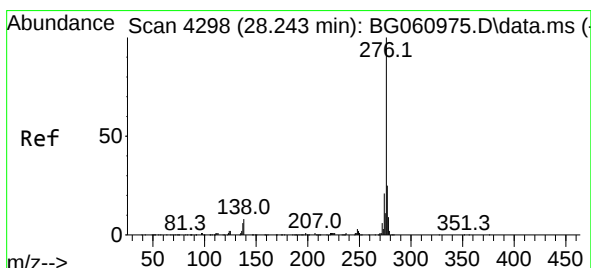
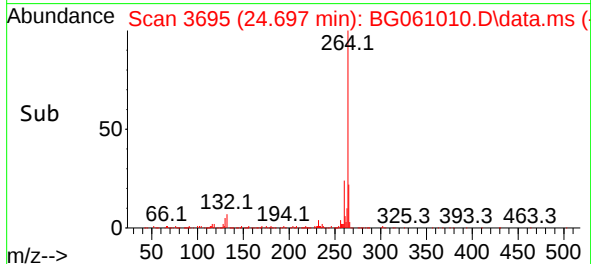
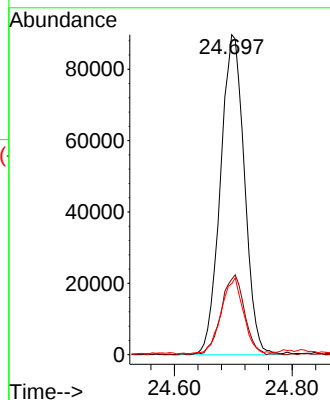
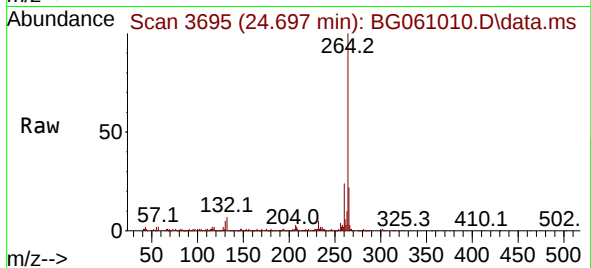
Tgt Ion:264 Resp: 253234
 Ion Ratio Lower Upper
 264 100
 260 23.6 19.4 29.2
 265 22.2 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/24/2024

Supervised By :mohammad ahmed 04/27/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.160 ng

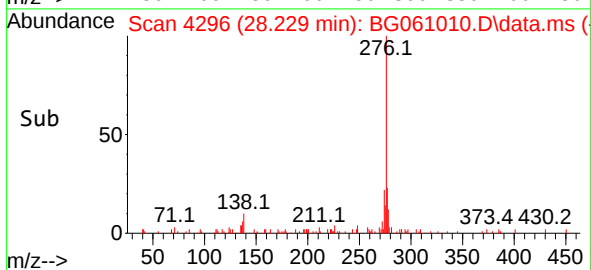
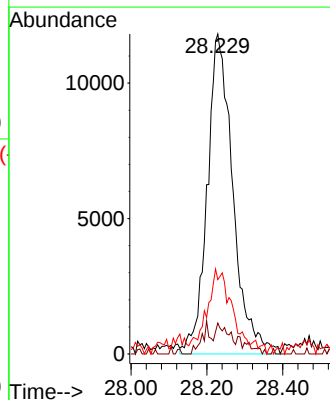
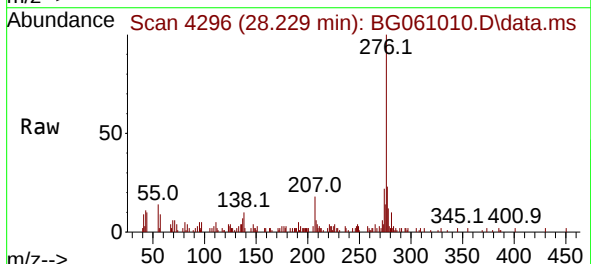
RT: 28.229 min Scan# 4296

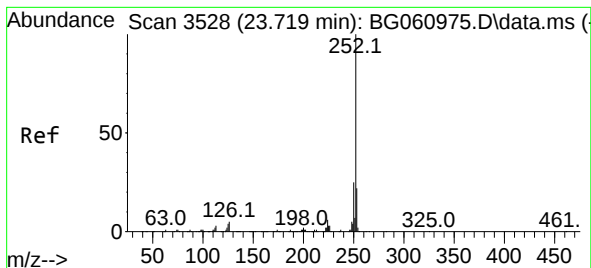
Delta R.T. -0.014 min

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# 3528

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: 9835

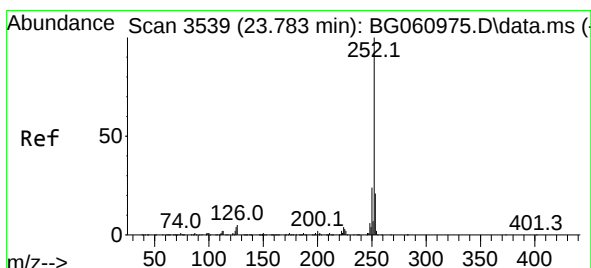
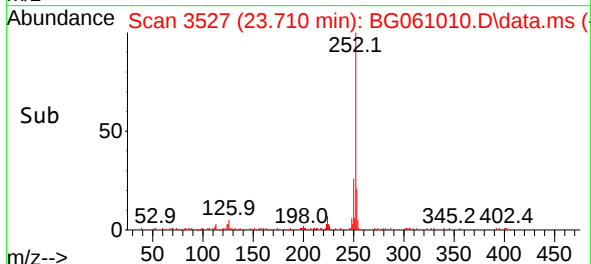
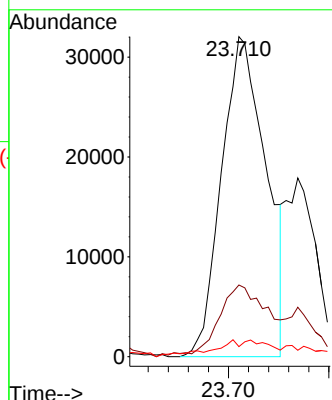
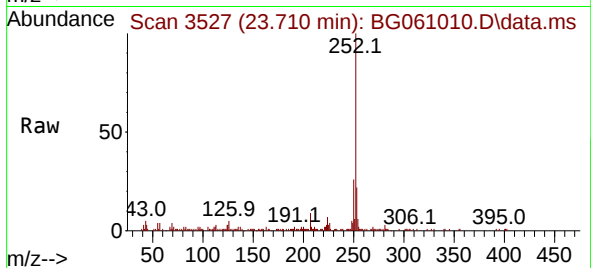
Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.5	26.3
125	3.1	3.3	4.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/24/2024

Supervised By :mohammad ahmed 04/27/2024



#89

Benzo(k)fluoranthene

Concen: 2.586 ng m

RT: 23.769 min Scan# 3537

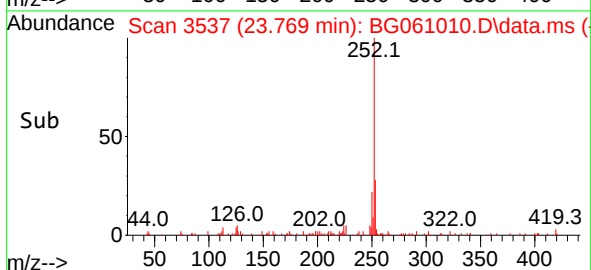
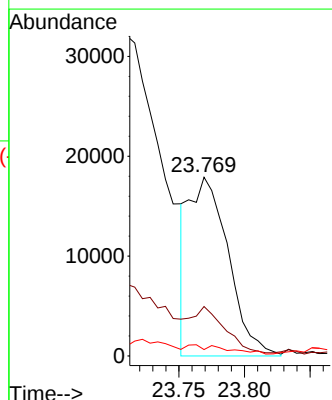
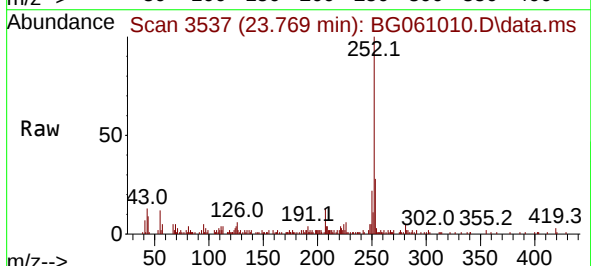
Delta R.T. -0.014 min

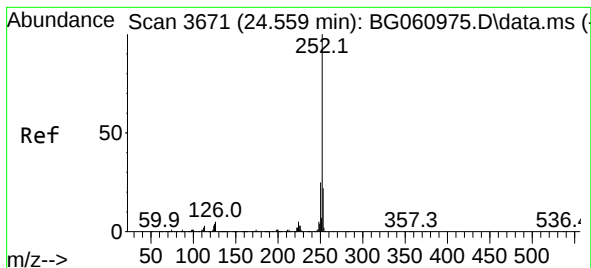
Lab File: BG061010.D

Acq: 23 Apr 2024 16:33

Tgt Ion:252 Resp: 37456

Ion	Ratio	Lower	Upper
252	100		
253	27.6	16.6	25.0
125	3.6	3.3	4.9





#90

Benzo(a)pyrene

Concen: 4.901 ng

RT: 24.545 min Scan# 30

Delta R.T. -0.014 min

Lab File: BG061010.D

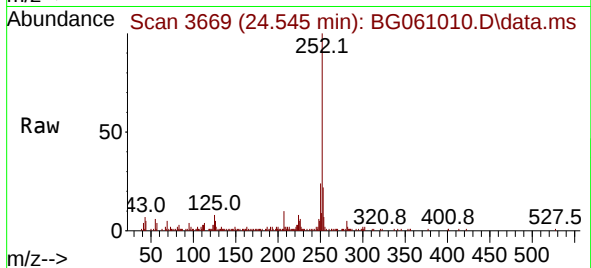
Acq: 23 Apr 2024 16:33

Instrument :

BNA_G

ClientSampleId :

TOPSOIL-LKWD-DENALI-5



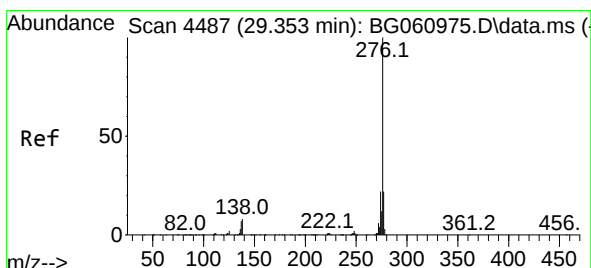
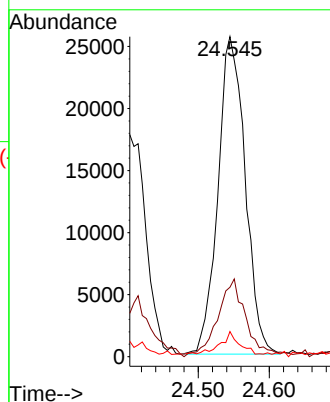
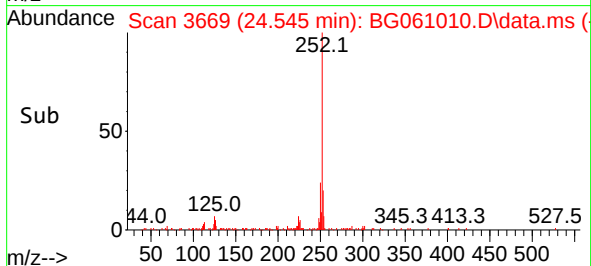
Tgt Ion:	252	Resp:	6807
Ion Ratio	Lower	Upper	
252	100		
253	21.7	17.7	26.5
125	7.8	3.6	5.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/24/2024

Supervised By :mohammad ahmed 04/27/2024



#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

