

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG121922\
 Data File : BG056022.D
 Acq On : 19 Dec 2022 20:52
 Operator : CG/JU
 Sample : N6067-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 WC-SOIL-20221214

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 12/20/2022
 Supervised By :mohammad ahmed 12/20/2022

Quant Time: Dec 20 01:08:10 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG121322.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 20 01:01:12 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.370	152	10839	20.000	ng	0.00
21) Naphthalene-d8	11.202	136	38227	20.000	ng	# 0.00
39) Acenaphthene-d10	14.974	164	31616	20.000	ng	0.00
64) Phenanthrene-d10	17.718	188	72226	20.000	ng	0.00
76) Chrysene-d12	22.031	240	75712	20.000	ng	0.00
86) Perylene-d12	25.526	264	95128	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.891	112	51285	110.963	ng	0.00
7) Phenol-d6	7.501	99	61400	103.292	ng	0.00
23) Nitrobenzene-d5	9.539	82	42698	78.055	ng	0.00
42) 2,4,6-Tribromophenol	16.455	330	76686	100.591	ng	0.00
45) 2-Fluorobiphenyl	13.605	172	135216	59.982	ng	0.00
79) Terphenyl-d14	20.291	244	231117	53.951	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.255	128	8385	4.157	ng	98
37) 2-Methylnaphthalene	12.836	142	4569	2.564	ng	94
38) 1-Methylnaphthalene	13.047	142	4344	2.502	ng	# 87
52) Acenaphthene	15.039	154	20625	11.054	ng	93
55) Dibenzofuran	15.368	168	21497	6.851	ng	# 96
58) Fluorene	16.014	166	27355	10.665	ng	96
71) Phenanthrene	17.759	178	422095	111.517	ng	100
72) Anthracene	17.847	178	100430	26.820	ng	100
73) Carbazole	18.106	167	22127	7.165	ng	99
75) Fluoranthene	19.751	202	599608	113.130	ng	97
78) Pyrene	20.115	202	544603	118.873	ng	99
81) Benzo(a)anthracene	22.007	228	319381	59.947	ng	99
83) Chrysene	22.078	228	283335	56.744	ng	96
87) Indeno(1,2,3-cd)pyrene	29.569	276	177699	23.230	ng	# 95
88) Benzo(b)fluoranthene	24.416	252	377607	61.334	ng	96
89) Benzo(k)fluoranthene	24.481	252	127560m	20.767	ng	
90) Benzo(a)pyrene	25.368	252	294997	56.686	ng	98
91) Dibenzo(a,h)anthracene	29.610	278	49187	7.682	ng	99
92) Benzo(g,h,i)perylene	30.826	276	172312	27.835	ng	96

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

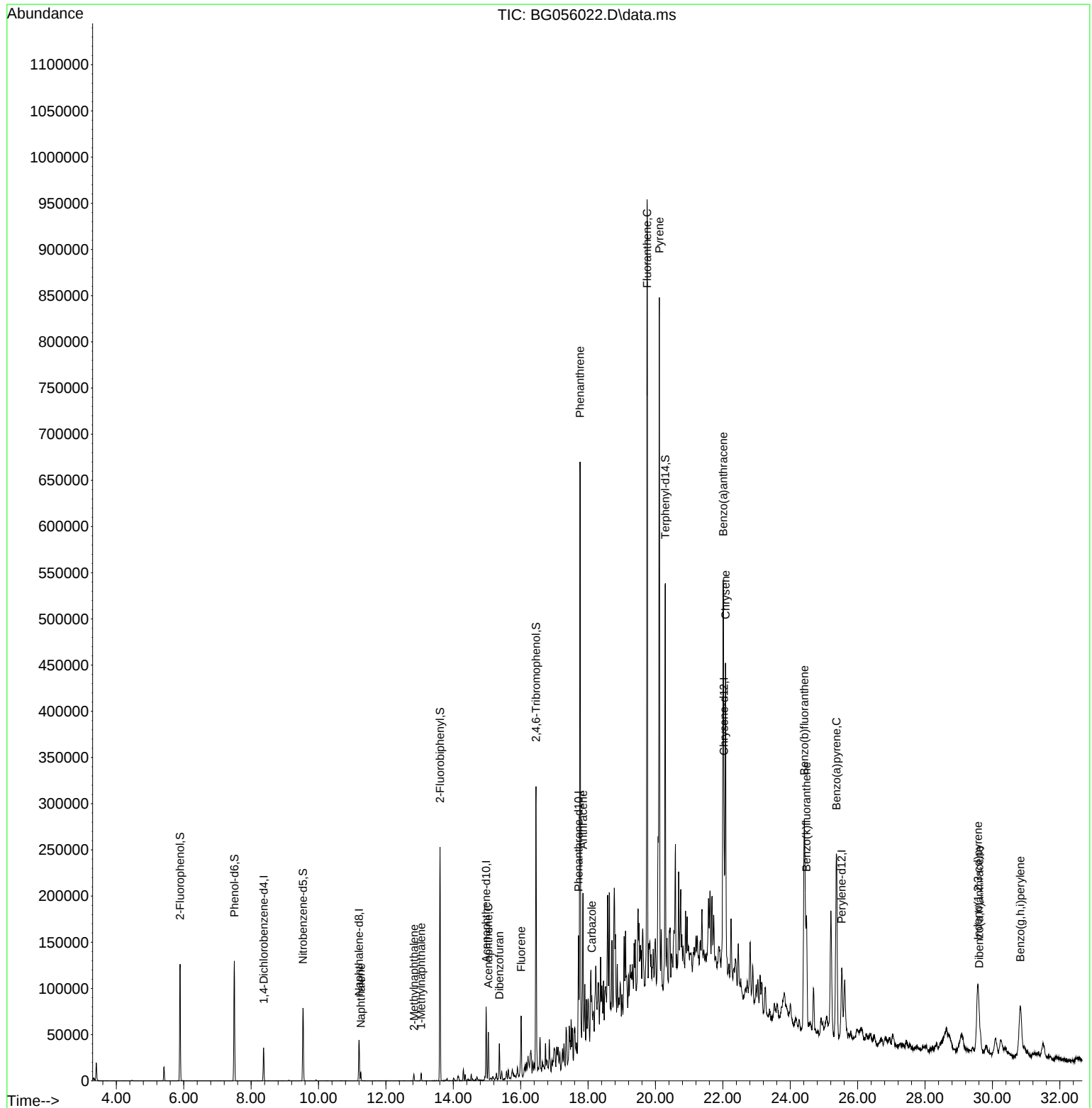
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG121922\
Data File : BG056022.D
Acq On : 19 Dec 2022 20:52
Operator : CG/JU
Sample : N6067-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

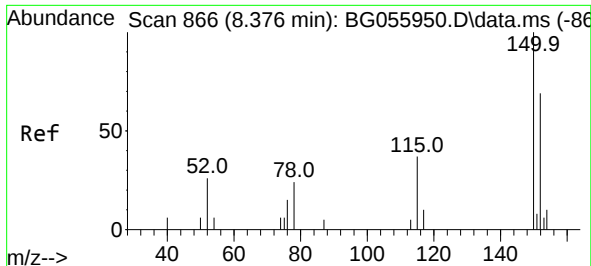
Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214

Quant Time: Dec 20 01:08:10 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG121322.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 01:01:12 2022
Response via : Initial Calibration

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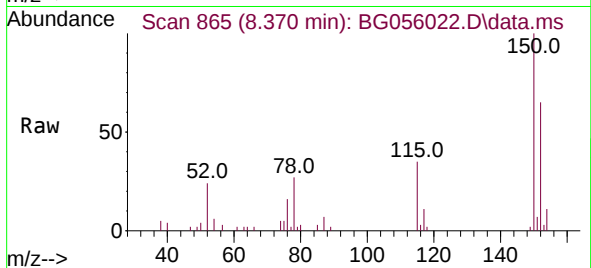
Reviewed By : Christian Giraldo 12/20/2022
Supervised By : mohammad ahmed 12/20/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.370 min Scan# 866
Delta R.T. 0.006 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

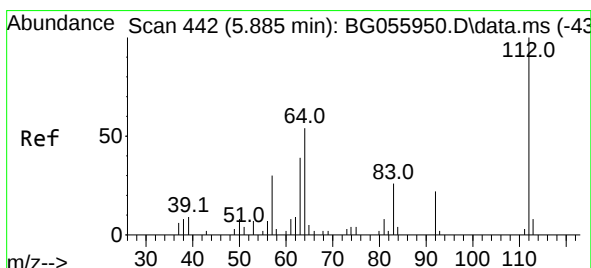
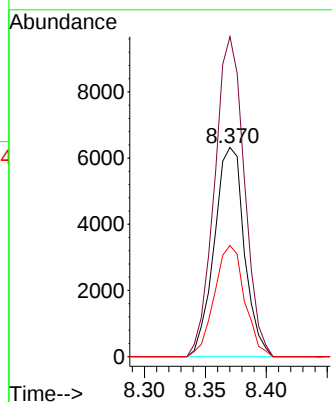
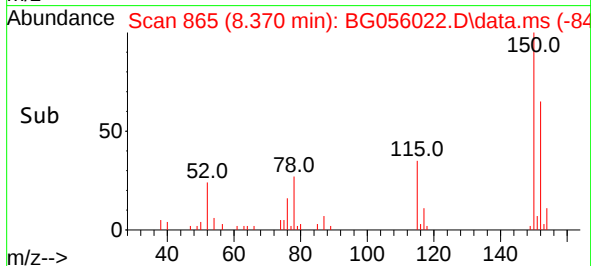
Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214



Tgt Ion:152 Resp: 10839
Ion Ratio Lower Upper
152 100
150 152.9 115.7 173.5
115 53.1 43.0 64.4

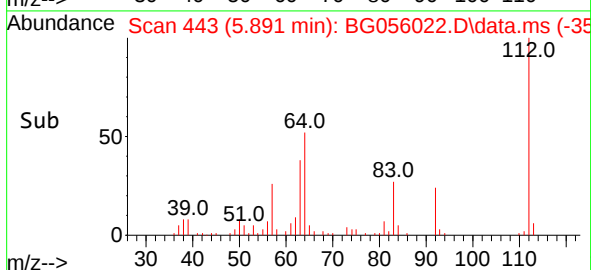
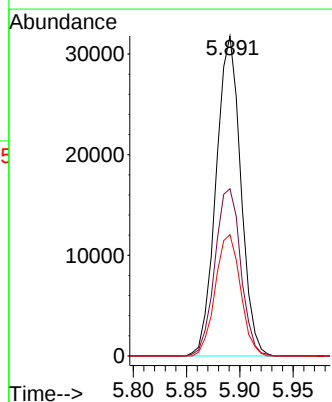
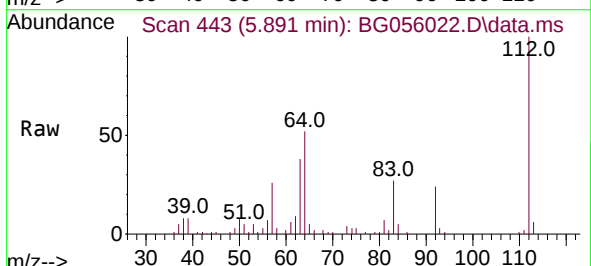
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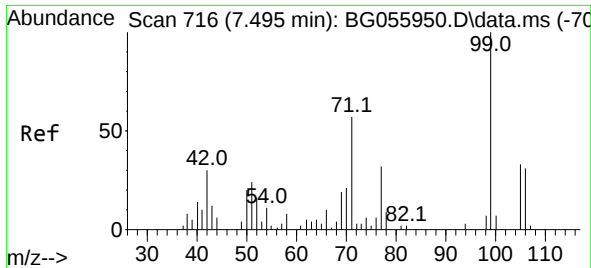
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022



#5
2-Fluorophenol
Concen: 110.963 ng
RT: 5.891 min Scan# 443
Delta R.T. 0.006 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

Tgt Ion:112 Resp: 51285
Ion Ratio Lower Upper
112 100
64 52.2 43.0 64.4
63 37.9 31.4 47.2





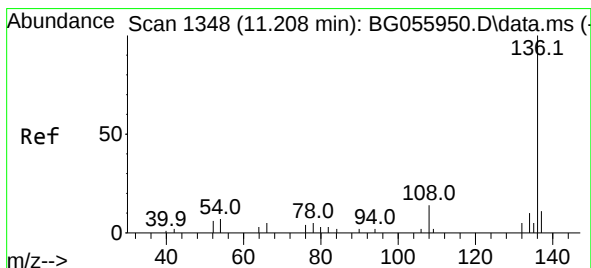
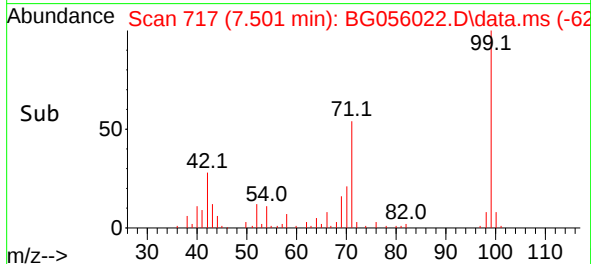
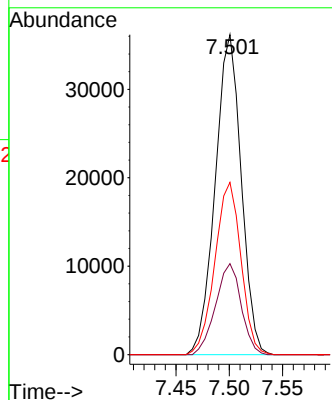
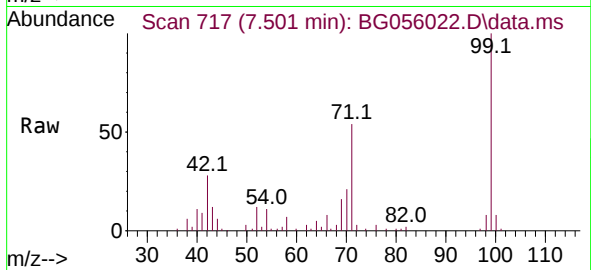
#7
Phenol-d6
Concen: 103.292 ng
RT: 7.501 min Scan# 716
Delta R.T. 0.006 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214

Tgt Ion: 99 Resp: 61400
Ion Ratio Lower Upper
99 100
42 28.5 24.3 36.5
71 53.8 45.6 68.4

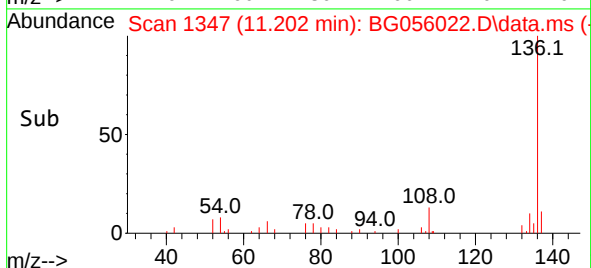
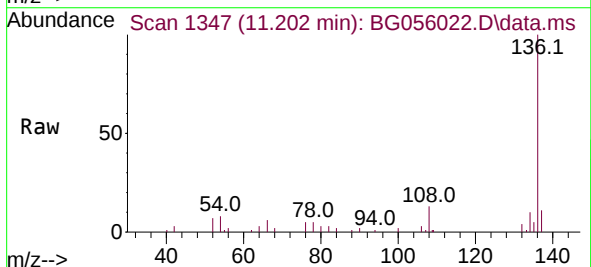
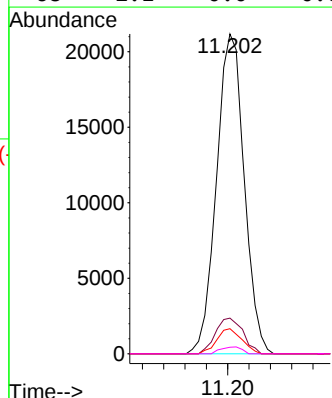
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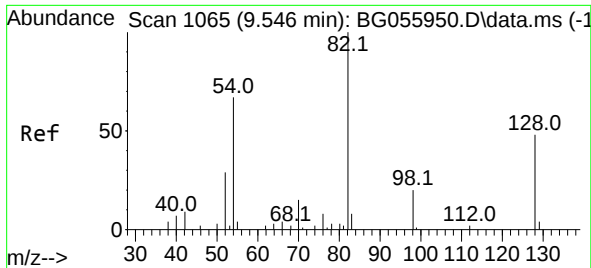
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.202 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

Tgt Ion:136 Resp: 38227
Ion Ratio Lower Upper
136 100
137 11.1 9.2 13.8
54 7.9 5.6 8.4
68 2.1 0.0 0.0#





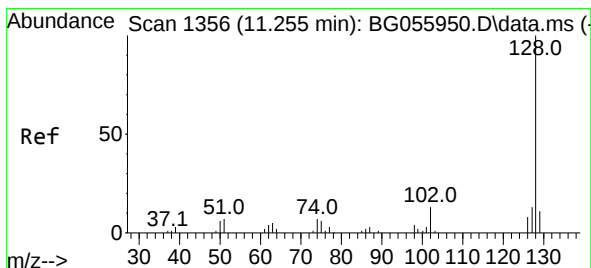
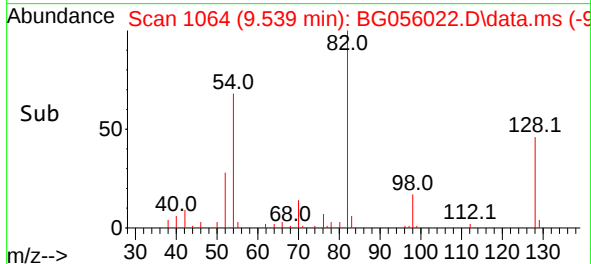
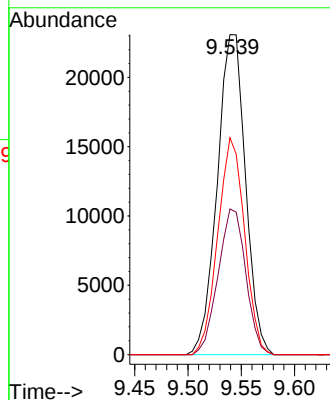
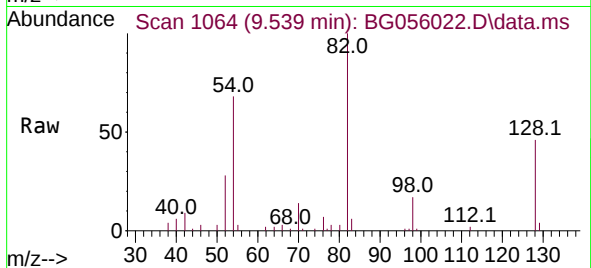
#23
Nitrobenzene-d5
Concen: 78.055 ng
RT: 9.539 min Scan# 1064
Delta R.T. -0.006 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214

Tgt Ion: 82 Resp: 42698
Ion Ratio Lower Upper
82 100
128 45.5 38.4 57.6
54 67.8 53.3 79.9

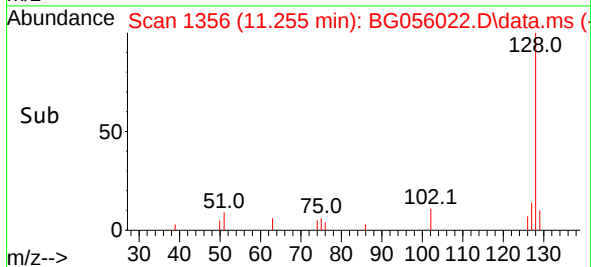
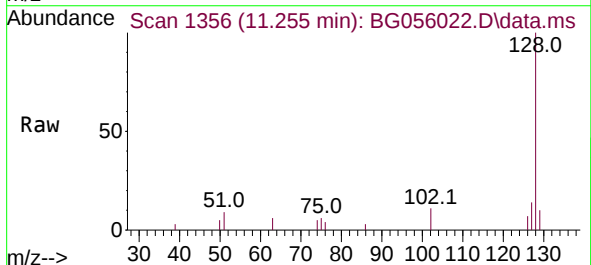
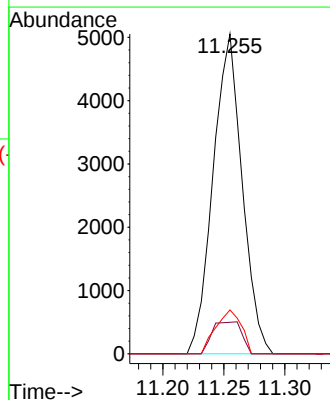
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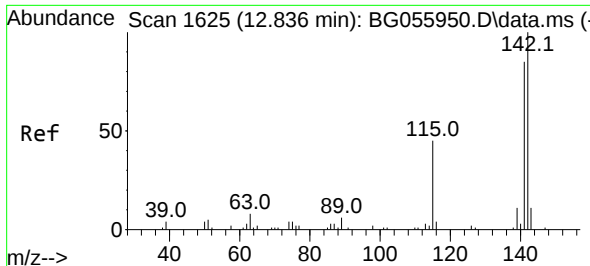
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022



#31
Naphthalene
Concen: 4.157 ng
RT: 11.255 min Scan# 1356
Delta R.T. 0.000 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

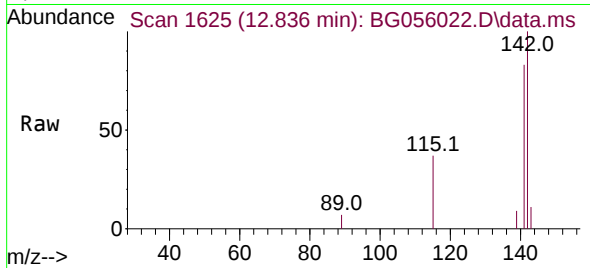
Tgt Ion:128 Resp: 8385
Ion Ratio Lower Upper
128 100
129 9.9 8.7 13.1
127 13.7 10.3 15.5





#37
2-Methylnaphthalene
Concen: 2.564 ng
RT: 12.836 min Scan# 1625
Delta R.T. 0.000 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

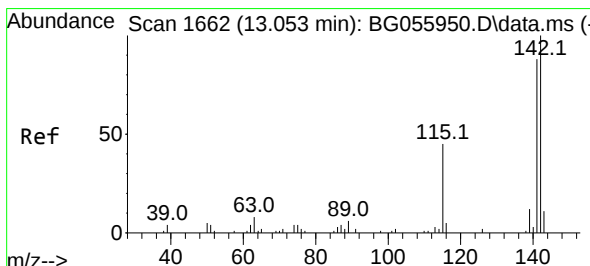
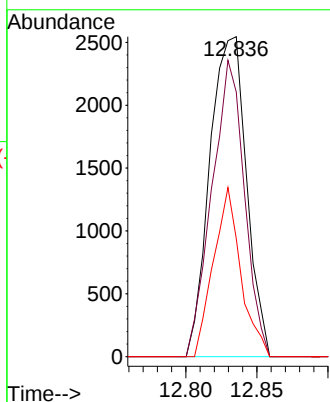
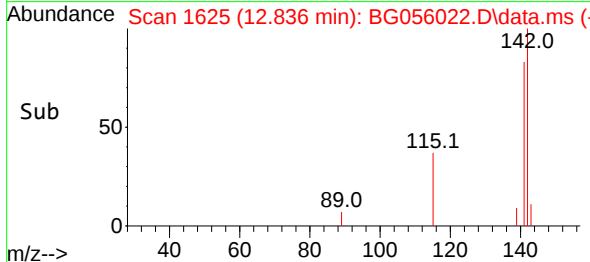
Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214



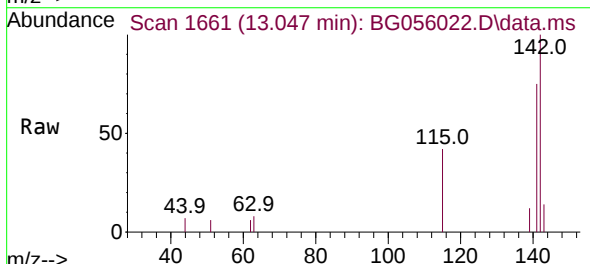
Tgt Ion:142 Resp: 4569
Ion Ratio Lower Upper
142 100
141 82.7 67.8 101.6
115 36.8 35.7 53.5

Manual Integrations
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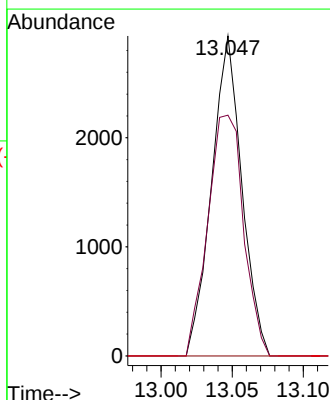
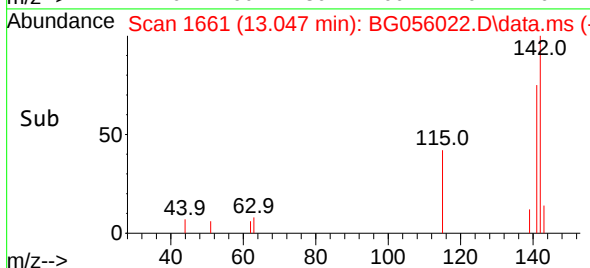
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022

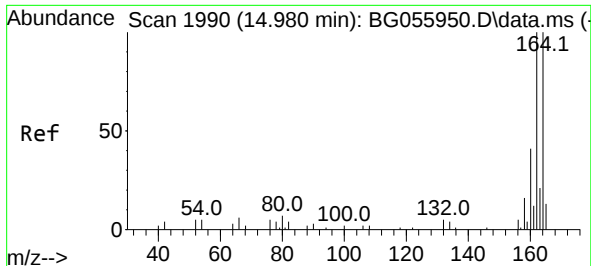


#38
1-Methylnaphthalene
Concen: 2.502 ng
RT: 13.047 min Scan# 1661
Delta R.T. -0.006 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52



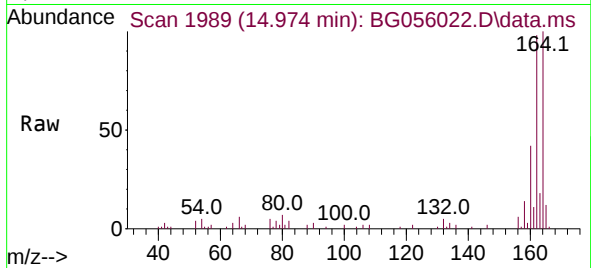
Tgt Ion:142 Resp: 4344
Ion Ratio Lower Upper
142 100
141 75.2 70.2 105.2
116 0.0 3.8 5.8#





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.974 min Scan# 1990
Delta R.T. -0.006 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

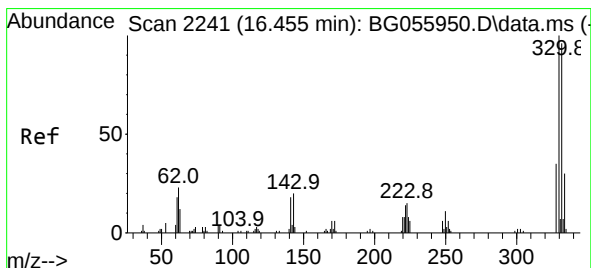
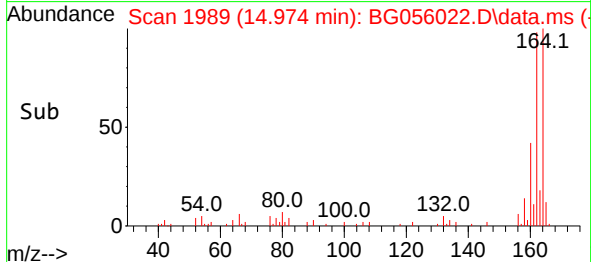
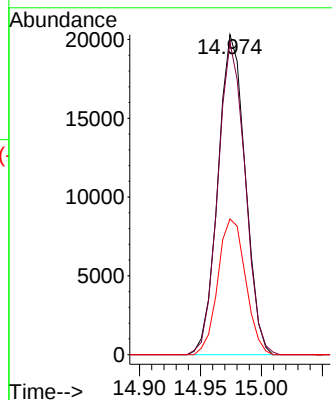
Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214



Tgt Ion:164 Resp: 31616
Ion Ratio Lower Upper
164 100
162 97.6 79.8 119.8
160 42.4 33.0 49.4

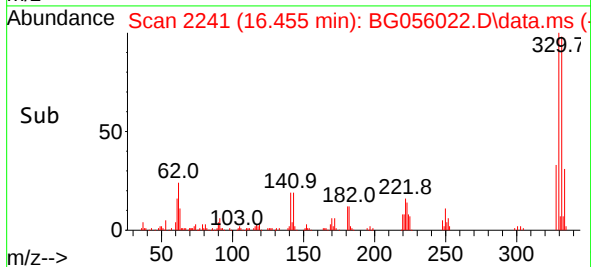
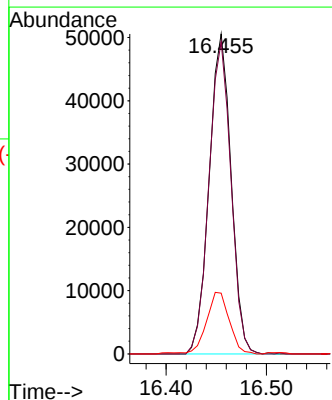
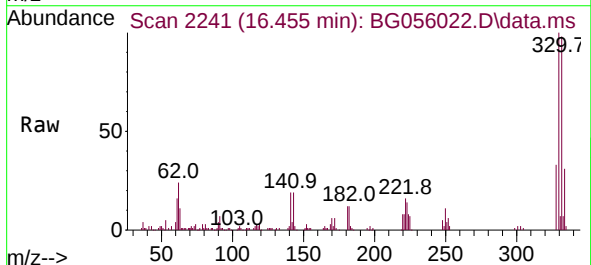
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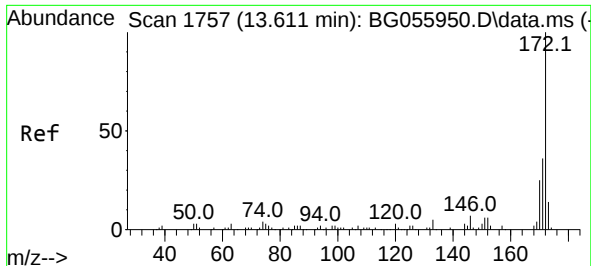
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022



#42
2,4,6-Tribromophenol
Concen: 100.591 ng
RT: 16.455 min Scan# 2241
Delta R.T. -0.006 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

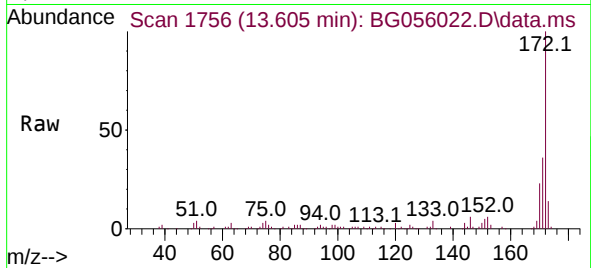
Tgt Ion:330 Resp: 76686
Ion Ratio Lower Upper
330 100
332 97.6 76.6 114.8
141 20.1 15.0 22.4





#45
2-Fluorobiphenyl
Concen: 59.982 ng
RT: 13.605 min Scan# 1757
Delta R.T. -0.006 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

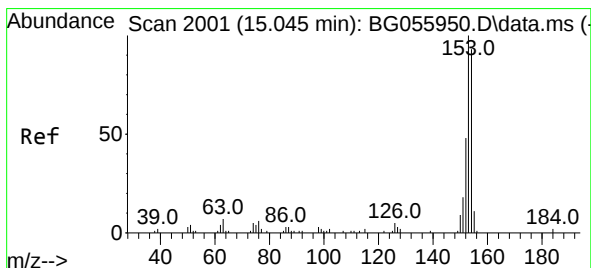
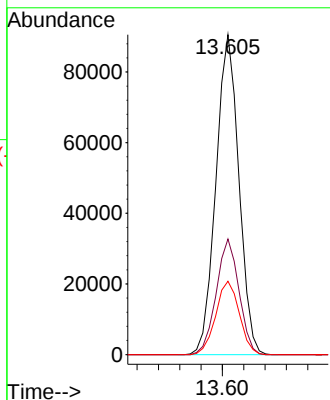
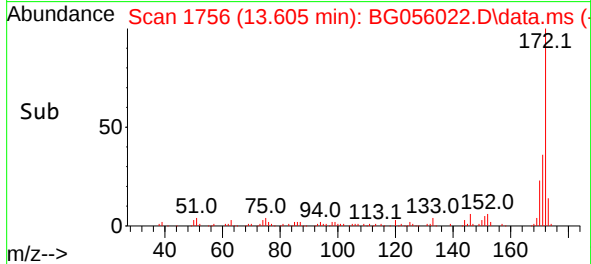
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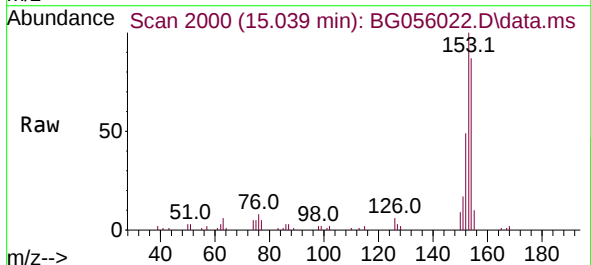
Tgt Ion:172 Resp: 135216
Ion Ratio Lower Upper
172 100
171 36.1 28.6 42.8
170 22.9 19.9 29.9

Manual Integrations
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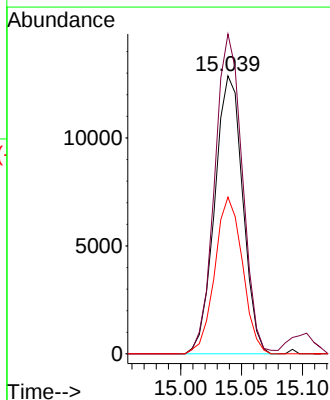
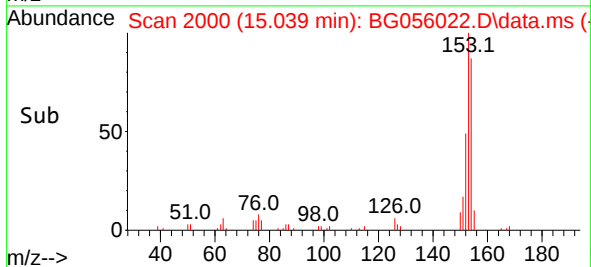
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022

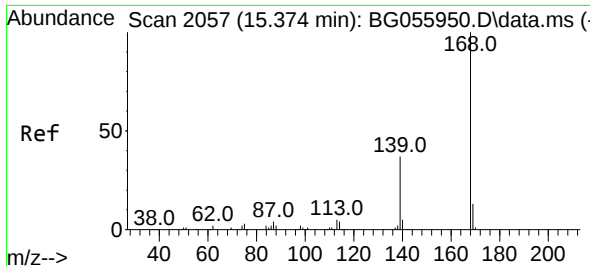


#52
Acenaphthene
Concen: 11.054 ng
RT: 15.039 min Scan# 2000
Delta R.T. -0.006 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52



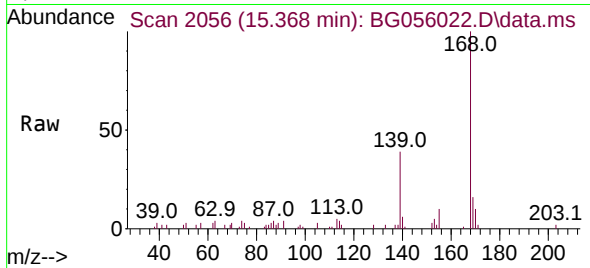
Tgt Ion:154 Resp: 20625
Ion Ratio Lower Upper
154 100
153 115.1 86.2 129.2
152 56.4 41.4 62.0





#55
Dibenzofuran
Concen: 6.851 ng
RT: 15.368 min Scan# 2057
Delta R.T. -0.006 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

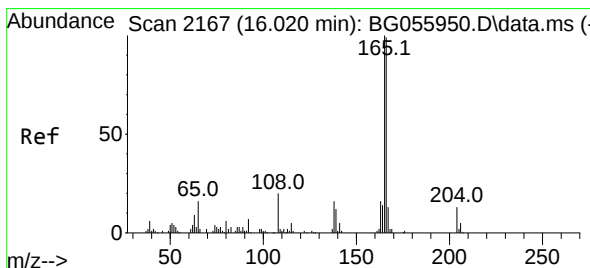
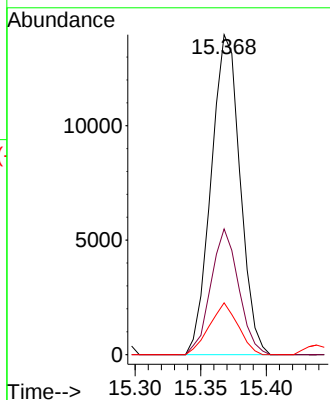
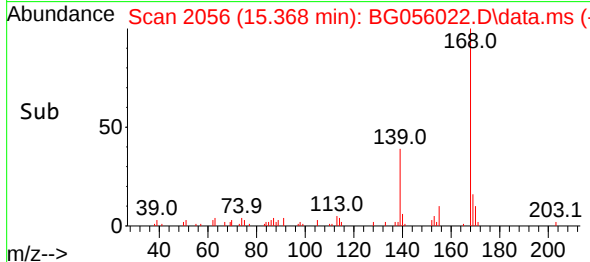
Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214



Tgt Ion:168 Resp: 21497
Ion Ratio Lower Upper
168 100
139 39.3 29.8 44.8
169 16.2 10.6 16.0

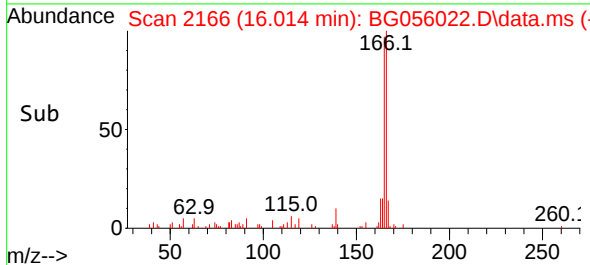
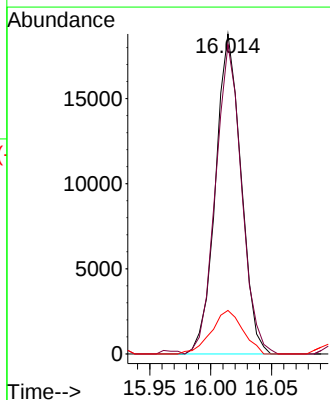
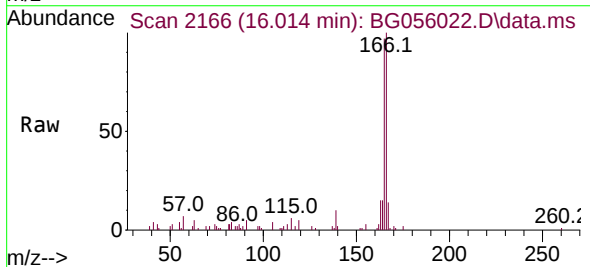
Manual Integrations
APPROVED

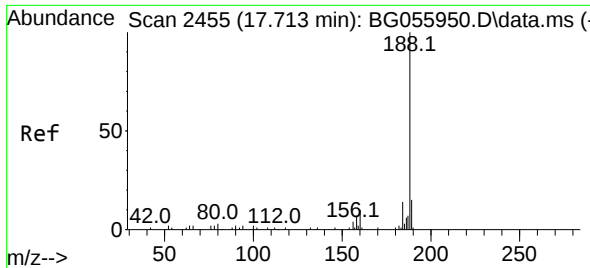
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022



#58
Fluorene
Concen: 10.665 ng
RT: 16.014 min Scan# 2166
Delta R.T. -0.006 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

Tgt Ion:166 Resp: 27355
Ion Ratio Lower Upper
166 100
165 96.7 81.1 121.7
167 13.6 10.5 15.7





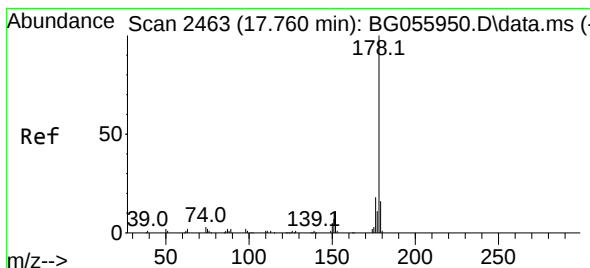
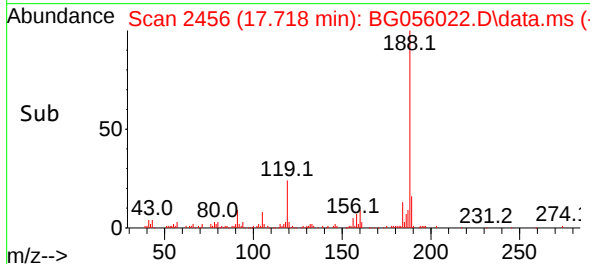
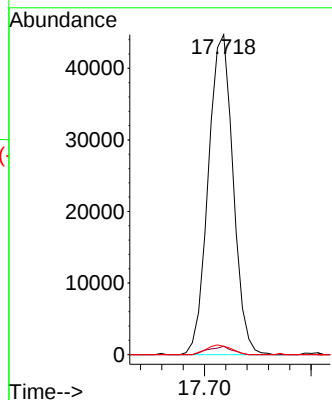
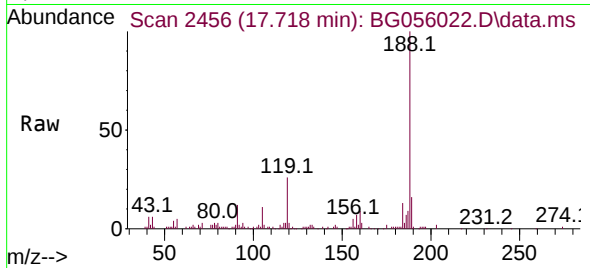
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.718 min Scan# 2455
Delta R.T. 0.000 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214

Tgt Ion:188	Resp:	72226
Ion Ratio	Lower	Upper
188	100	
94	2.6	1.8 2.8
80	2.6	2.4 3.6

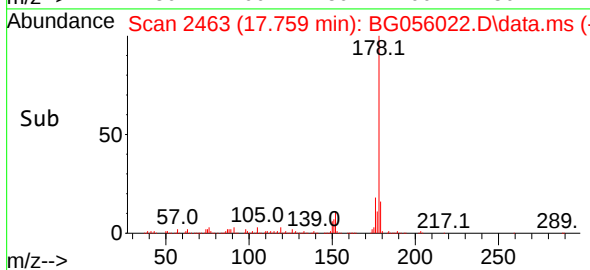
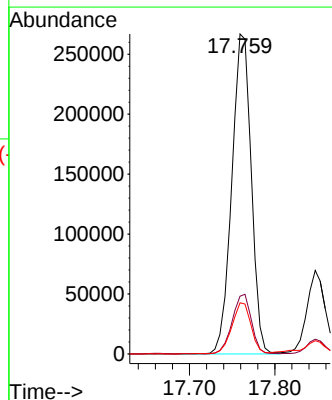
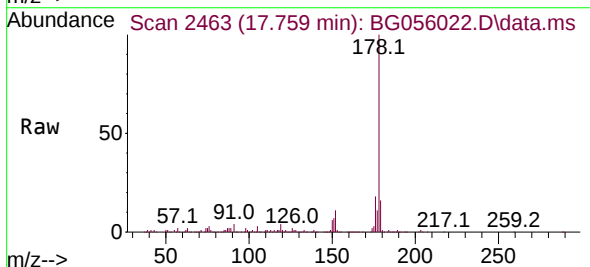
Manual Integrations
APPROVED

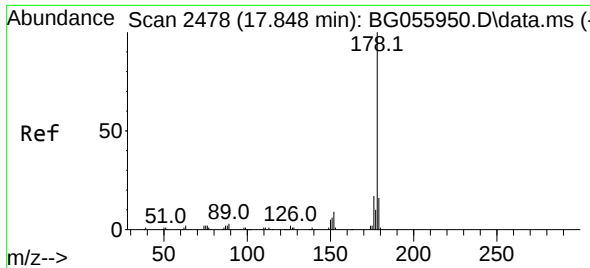
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022



#71
Phenanthrene
Concen: 111.517 ng
RT: 17.759 min Scan# 2463
Delta R.T. 0.000 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

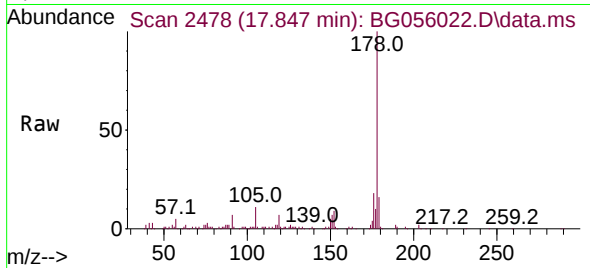
Tgt Ion:178	Resp:	422095
Ion Ratio	Lower	Upper
178	100	
176	18.0	14.4 21.6
179	16.0	12.7 19.1





#72
 Anthracene
 Concen: 26.820 ng
 RT: 17.847 min Scan# 2478
 Delta R.T. -0.006 min
 Lab File: BG056022.D
 Acq: 19 Dec 2022 20:52

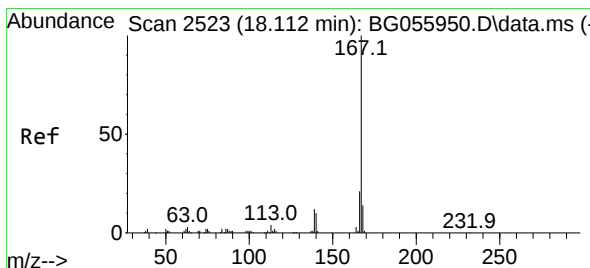
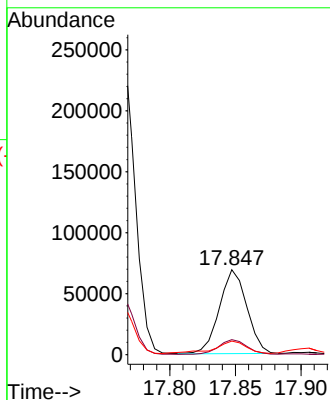
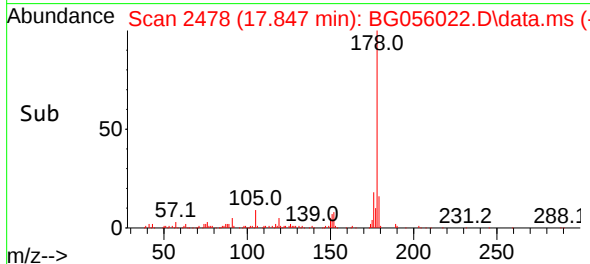
Instrument :
 BNA_G
 ClientSampleId :
 WC-SOIL-20221214



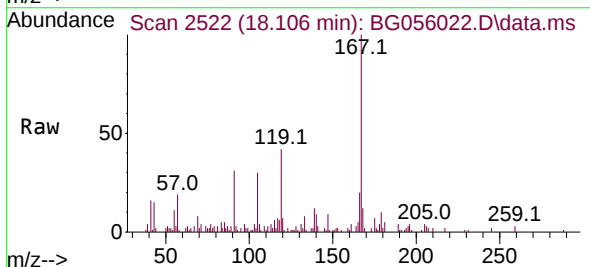
Tgt Ion:178 Resp: 100430
 Ion Ratio Lower Upper
 178 100
 176 17.6 13.9 20.9
 179 15.9 12.7 19.1

Manual Integrations
 APPROVED

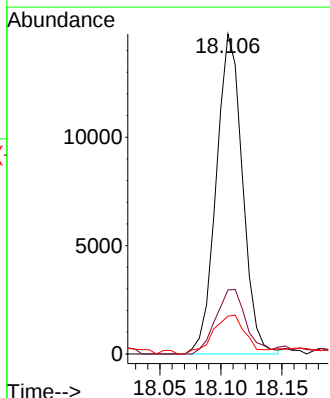
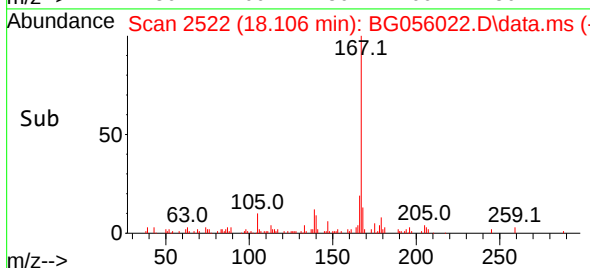
Reviewed By :Christian Giraldo 12/20/2022
 Supervised By :mohammad ahmed 12/20/2022

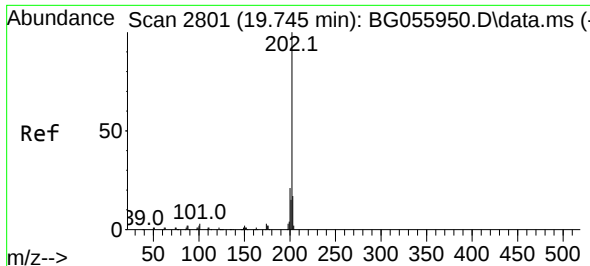


#73
 Carbazole
 Concen: 7.165 ng
 RT: 18.106 min Scan# 2522
 Delta R.T. -0.006 min
 Lab File: BG056022.D
 Acq: 19 Dec 2022 20:52



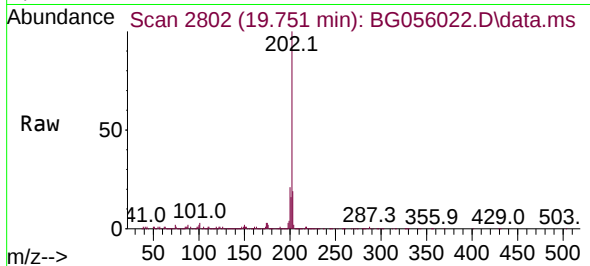
Tgt Ion:167 Resp: 22127
 Ion Ratio Lower Upper
 167 100
 166 20.0 16.6 25.0
 139 11.8 9.7 14.5





#75
Fluoranthene
Concen: 113.130 ng
RT: 19.751 min Scan# 2802
Delta R.T. 0.000 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

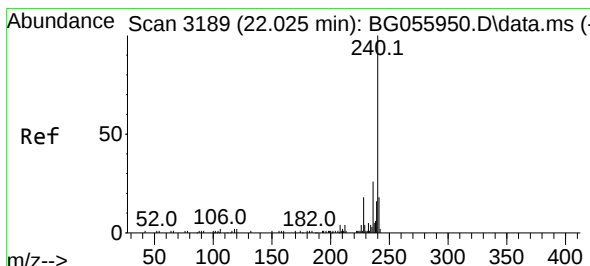
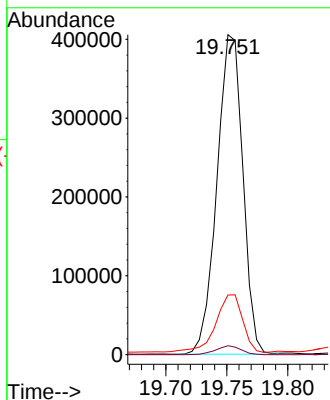
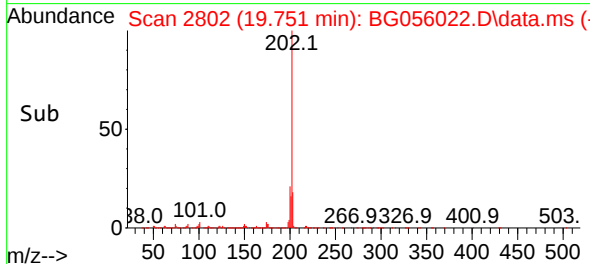
Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214



Tgt Ion:202 Resp: 599608
Ion Ratio Lower Upper
202 100
101 2.8 0.0 22.6
203 18.6 0.0 37.1

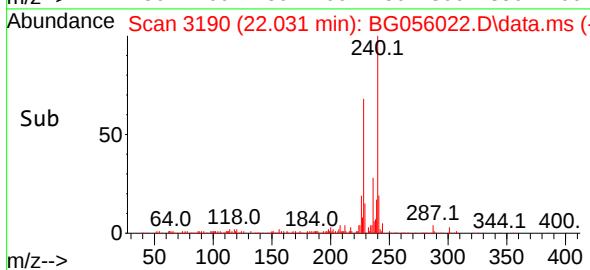
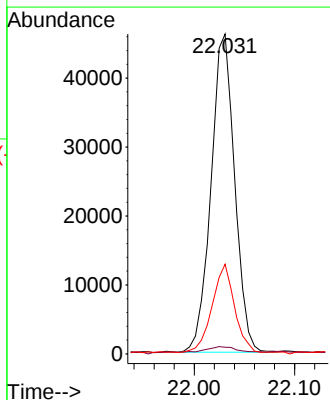
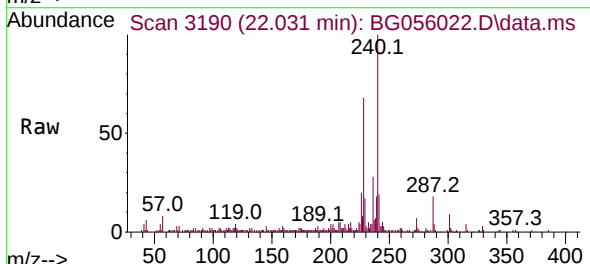
Manual Integrations
APPROVED

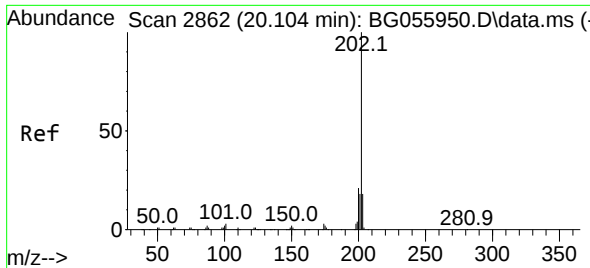
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022



#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.031 min Scan# 3190
Delta R.T. 0.000 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

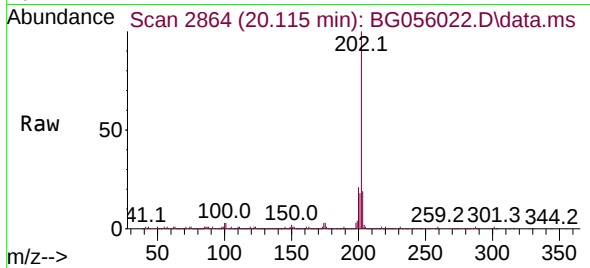
Tgt Ion:240 Resp: 75712
Ion Ratio Lower Upper
240 100
120 2.1 1.7 2.5
236 28.0 21.1 31.7





#78
 Pyrene
 Concen: 118.873 ng
 RT: 20.115 min Scan# 2864
 Delta R.T. 0.006 min
 Lab File: BG056022.D
 Acq: 19 Dec 2022 20:52

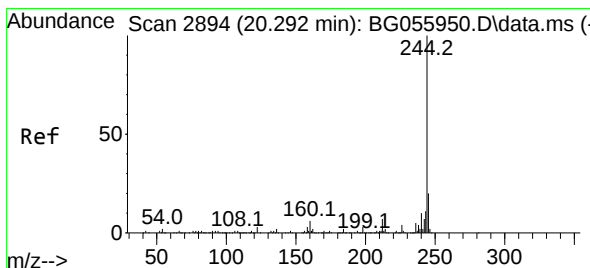
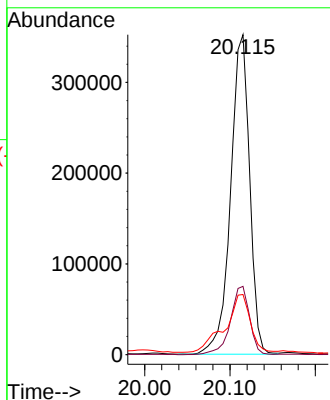
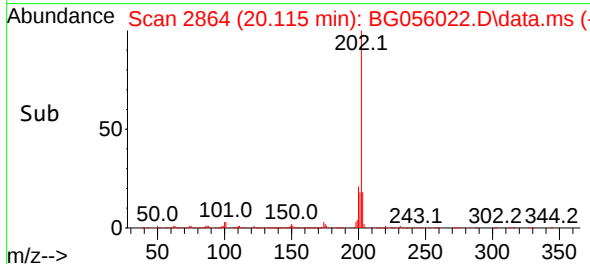
Instrument :
 BNA_G
 ClientSampleId :
 WC-SOIL-20221214



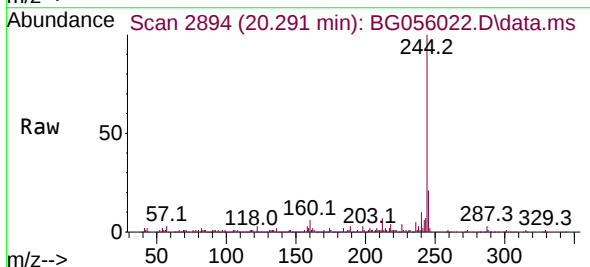
Tgt Ion:202 Resp: 544603
 Ion Ratio Lower Upper
 202 100
 200 21.3 16.7 25.1
 203 18.8 14.6 21.8

Manual Integrations
 APPROVED

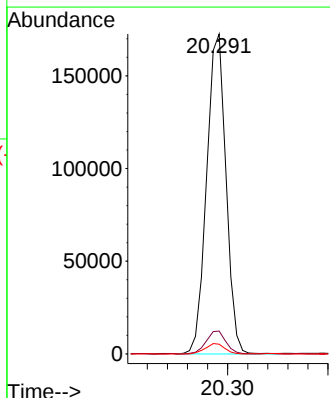
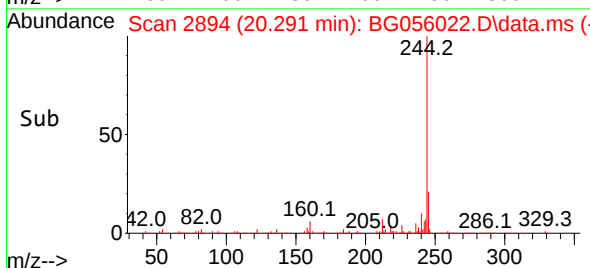
Reviewed By :Christian Giraldo 12/20/2022
 Supervised By :mohammad ahmed 12/20/2022

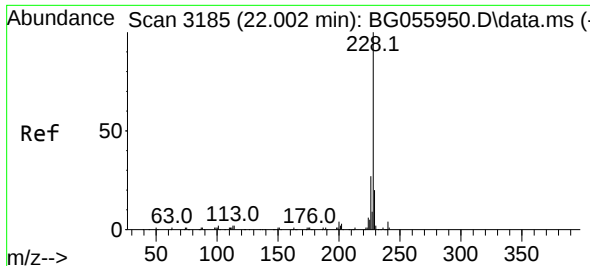


#79
 Terphenyl-d14
 Concen: 53.951 ng
 RT: 20.291 min Scan# 2894
 Delta R.T. 0.000 min
 Lab File: BG056022.D
 Acq: 19 Dec 2022 20:52



Tgt Ion:244 Resp: 231117
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.8 8.6
 122 3.0 2.5 3.7





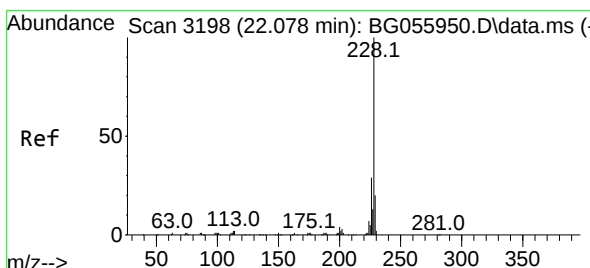
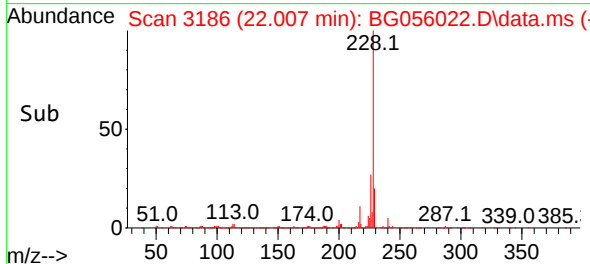
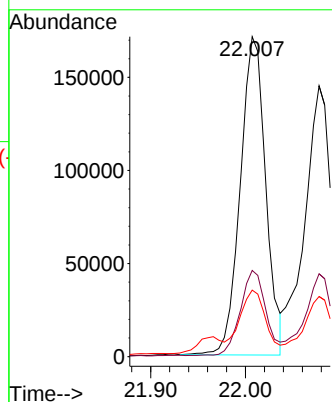
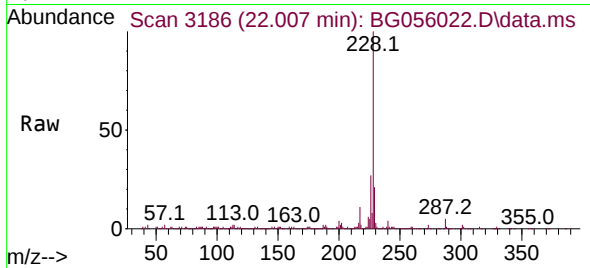
#81
Benzo(a)anthracene
Concen: 59.947 ng
RT: 22.007 min Scan# 3185
Delta R.T. 0.000 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214

Tgt Ion:228 Resp: 31938
Ion Ratio Lower Upper
228 100
226 26.9 21.8 32.6
229 20.8 15.9 23.9

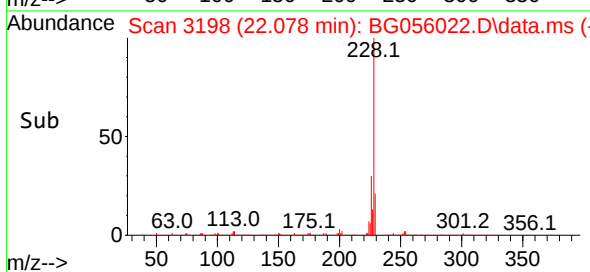
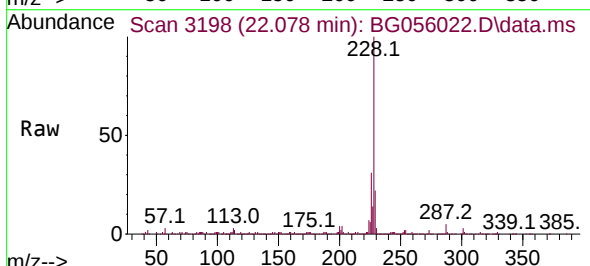
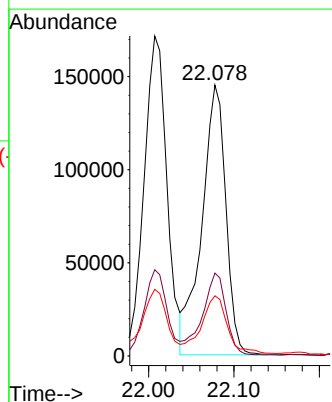
Manual Integrations
APPROVED

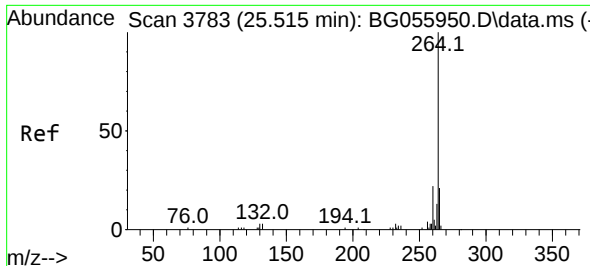
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022



#83
Chrysene
Concen: 56.744 ng
RT: 22.078 min Scan# 3198
Delta R.T. 0.000 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

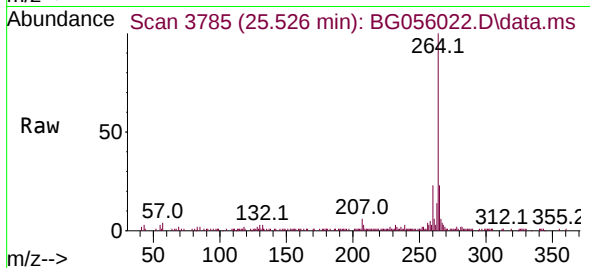
Tgt Ion:228 Resp: 283335
Ion Ratio Lower Upper
228 100
226 30.6 23.1 34.7
229 22.2 15.7 23.5





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.526 min Scan# 31
Delta R.T. 0.000 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

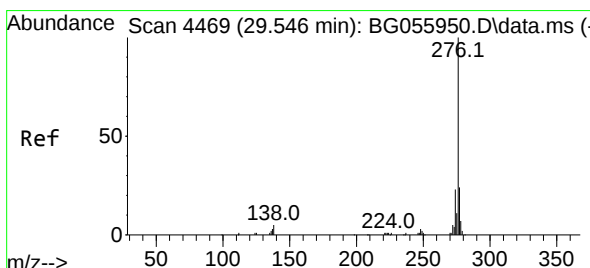
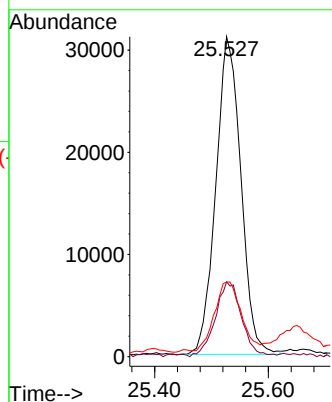
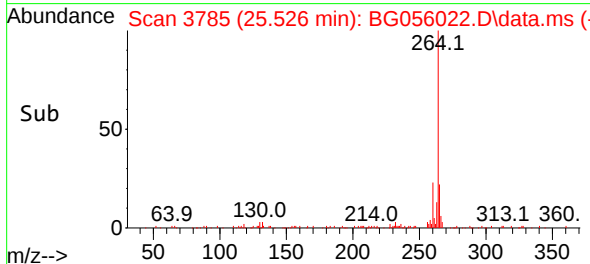
Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214



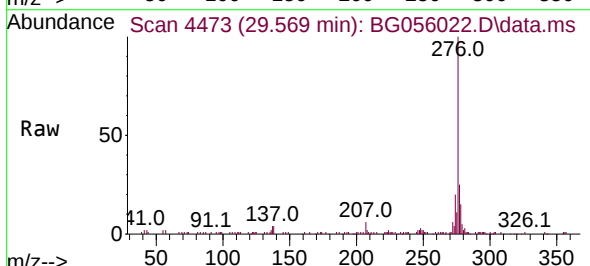
Tgt Ion:264 Resp: 95128
Ion Ratio Lower Upper
264 100
260 23.4 17.8 26.8
265 23.3 16.6 25.0

Manual Integrations
APPROVED

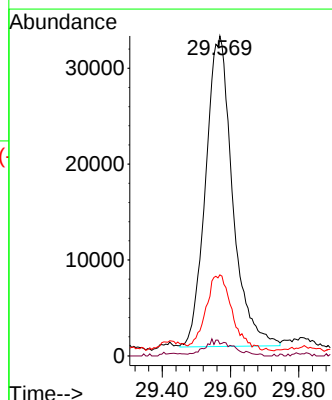
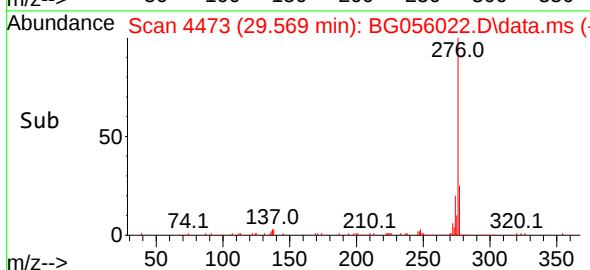
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022

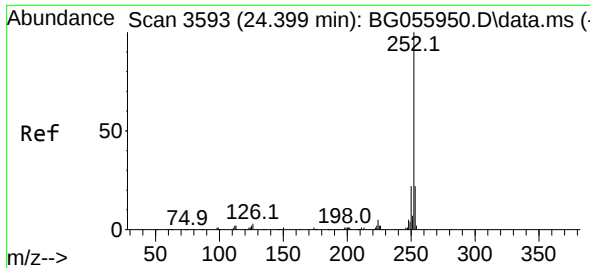


#87
Indeno(1,2,3-cd)pyrene
Concen: 23.230 ng
RT: 29.569 min Scan# 4473
Delta R.T. 0.012 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52



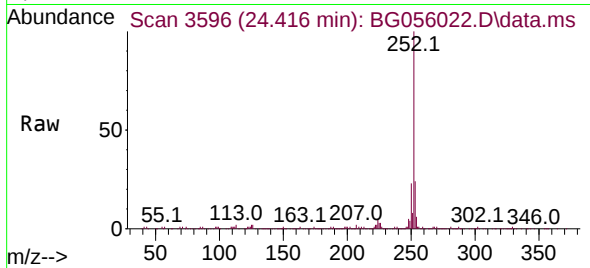
Tgt Ion:276 Resp: 177699
Ion Ratio Lower Upper
276 100
138 0.0 3.0 4.4#
277 23.6 20.4 30.6





#88
Benzo(b)fluoranthene
Concen: 61.334 ng
RT: 24.416 min Scan# 3596
Delta R.T. 0.012 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

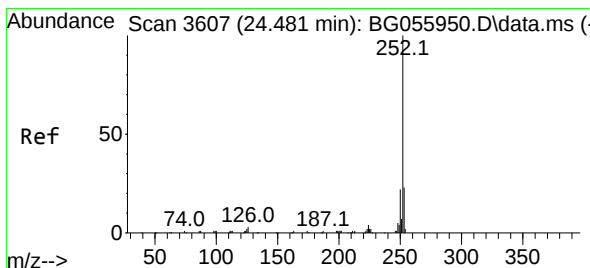
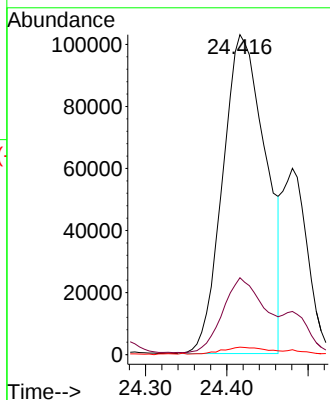
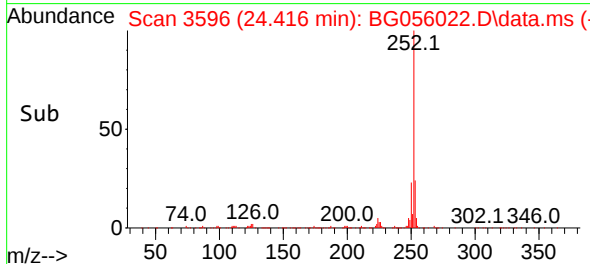
Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214



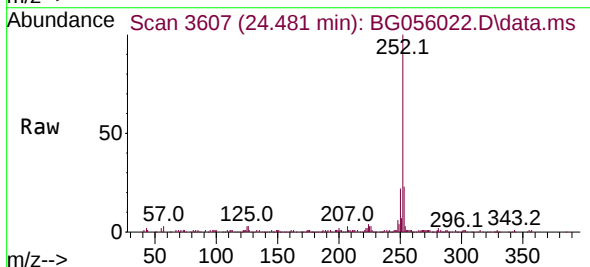
Tgt Ion:252 Resp: 37760
Ion Ratio Lower Upper
252 100
253 24.0 17.4 26.0
125 2.3 1.8 2.8

Manual Integrations
APPROVED

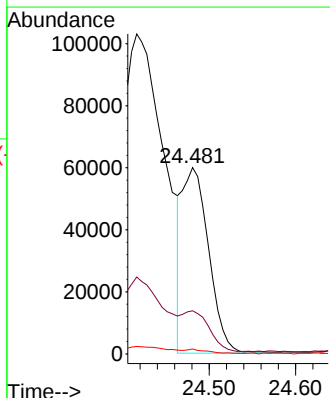
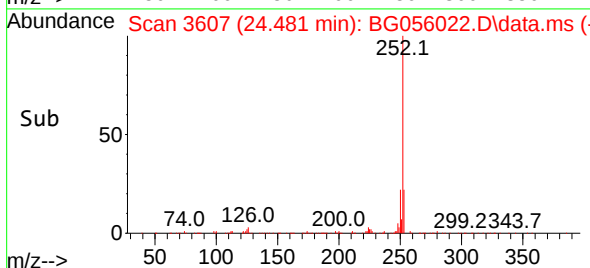
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022

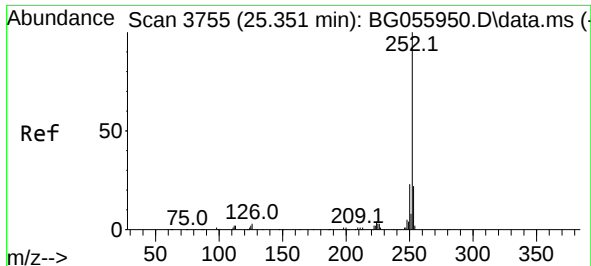


#89
Benzo(k)fluoranthene
Concen: 20.767 ng m
RT: 24.481 min Scan# 3607
Delta R.T. -0.006 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52



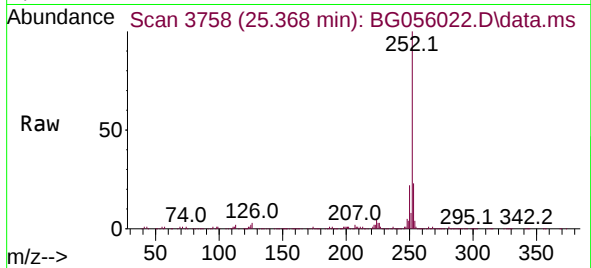
Tgt Ion:252 Resp: 127560
Ion Ratio Lower Upper
252 100
253 23.1 18.2 27.2
125 2.7 2.0 3.0





#90
Benzo(a)pyrene
Concen: 56.686 ng
RT: 25.368 min Scan# 31
Delta R.T. 0.006 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

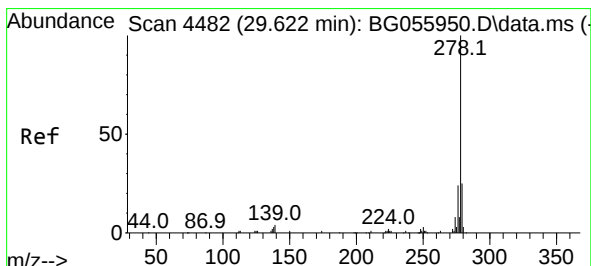
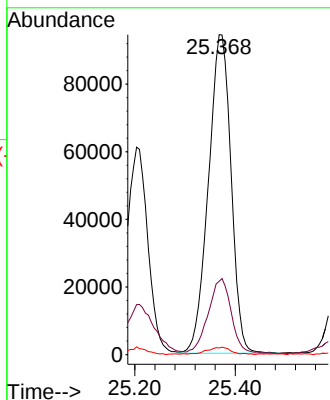
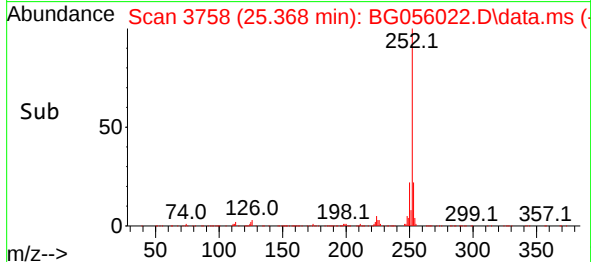
Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214



Tgt Ion:252 Resp: 294997
Ion Ratio Lower Upper
252 100
253 22.9 17.7 26.5
125 2.1 1.9 2.9

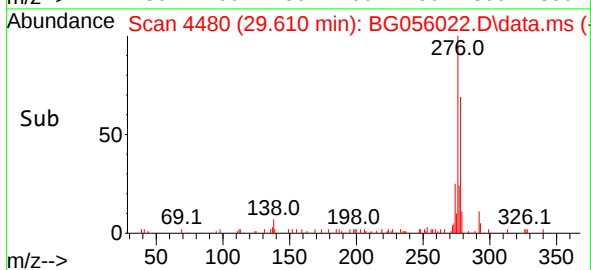
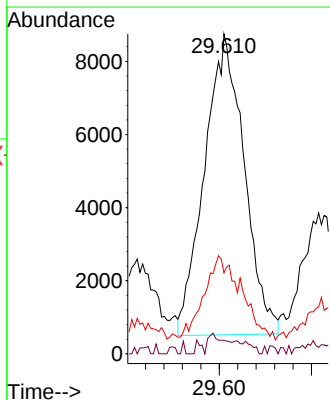
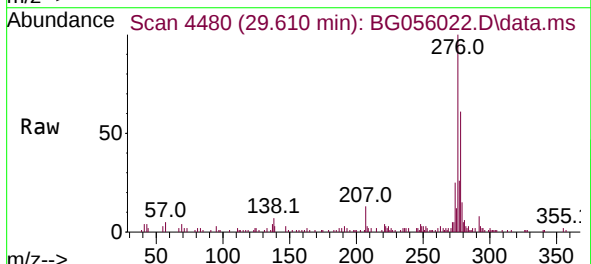
Manual Integrations
APPROVED

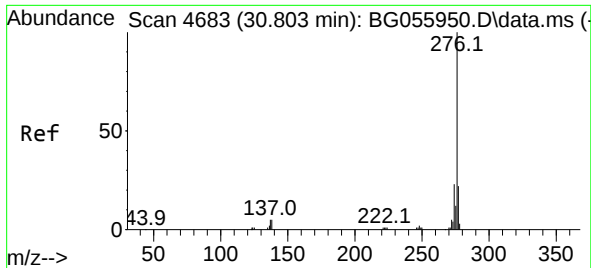
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022



#91
Dibenzo(a,h)anthracene
Concen: 7.682 ng
RT: 29.610 min Scan# 4480
Delta R.T. -0.029 min
Lab File: BG056022.D
Acq: 19 Dec 2022 20:52

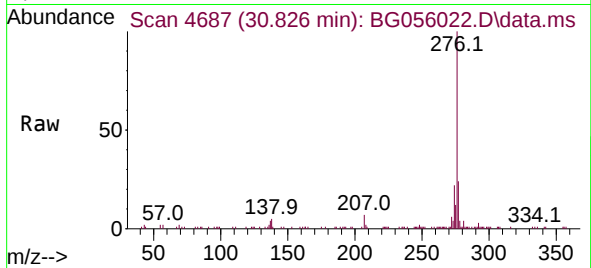
Tgt Ion:278 Resp: 49187
Ion Ratio Lower Upper
278 100
139 4.2 2.9 4.3
279 25.4 20.0 30.0





#92
 Benzo(g,h,i)perylene
 Concen: 27.835 ng
 RT: 30.826 min Scan# 4683
 Delta R.T. -0.006 min
 Lab File: BG056022.D
 Acq: 19 Dec 2022 20:52

Instrument :
 BNA_G
 ClientSampleId :
 WC-SOIL-20221214



Tgt Ion:276 Resp: 172312
 Ion Ratio Lower Upper
 276 100
 277 24.5 17.8 26.6
 138 4.6 3.8 5.6

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 12/20/2022
 Supervised By :mohammad ahmed 12/20/2022

