

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122022\
 Data File : BG056038.D
 Acq On : 20 Dec 2022 20:31
 Operator : CG/JU
 Sample : N6067-01DL 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 WC-SOIL-20221214DL

Quant Time: Dec 21 02:40:59 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG121322.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 21 01:11:10 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 12/21/2022
 Supervised By : Jagrut Upadhyay 12/21/2022

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.372	152	11650	20.000	ng	0.00
21) Naphthalene-d8	11.204	136	44729	20.000	ng	# 0.00
39) Acenaphthene-d10	14.976	164	37334	20.000	ng	0.00
64) Phenanthrene-d10	17.714	188	89987	20.000	ng	0.00
76) Chrysene-d12	22.020	240	92005	20.000	ng	# 0.00
86) Perylene-d12	25.510	264	104846	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.886	112	10036	20.203	ng	0.00
7) Phenol-d6	7.496	99	12276	19.214	ng	0.00
23) Nitrobenzene-d5	9.535	82	8376	13.086	ng	0.00
42) 2,4,6-Tribromophenol	16.450	330	15943	17.710	ng	0.00
45) 2-Fluorobiphenyl	13.601	172	29041	10.910	ng	0.00
79) Terphenyl-d14	20.281	244	51118	9.820	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.755	178	95759	20.306	ng	99
72) Anthracene	17.843	178	23014	4.933	ng	98
75) Fluoranthene	19.741	202	136669	20.696	ng	98
78) Pyrene	20.105	202	123224	22.134	ng	98
81) Benzo(a)anthracene	21.997	228	71492	11.043	ng	98
83) Chrysene	22.067	228	60846	10.028	ng	98
87) Indeno(1,2,3-cd)pyrene	29.535	276	28207	3.346	ng	# 95
88) Benzo(b)fluoranthene	24.394	252	74690	11.007	ng	# 99
89) Benzo(k)fluoranthene	24.459	252	30259m	4.470	ng	
90) Benzo(a)pyrene	25.346	252	53389	9.308	ng	# 98
92) Benzo(g,h,i)perylene	30.781	276	21923	3.213	ng	92

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

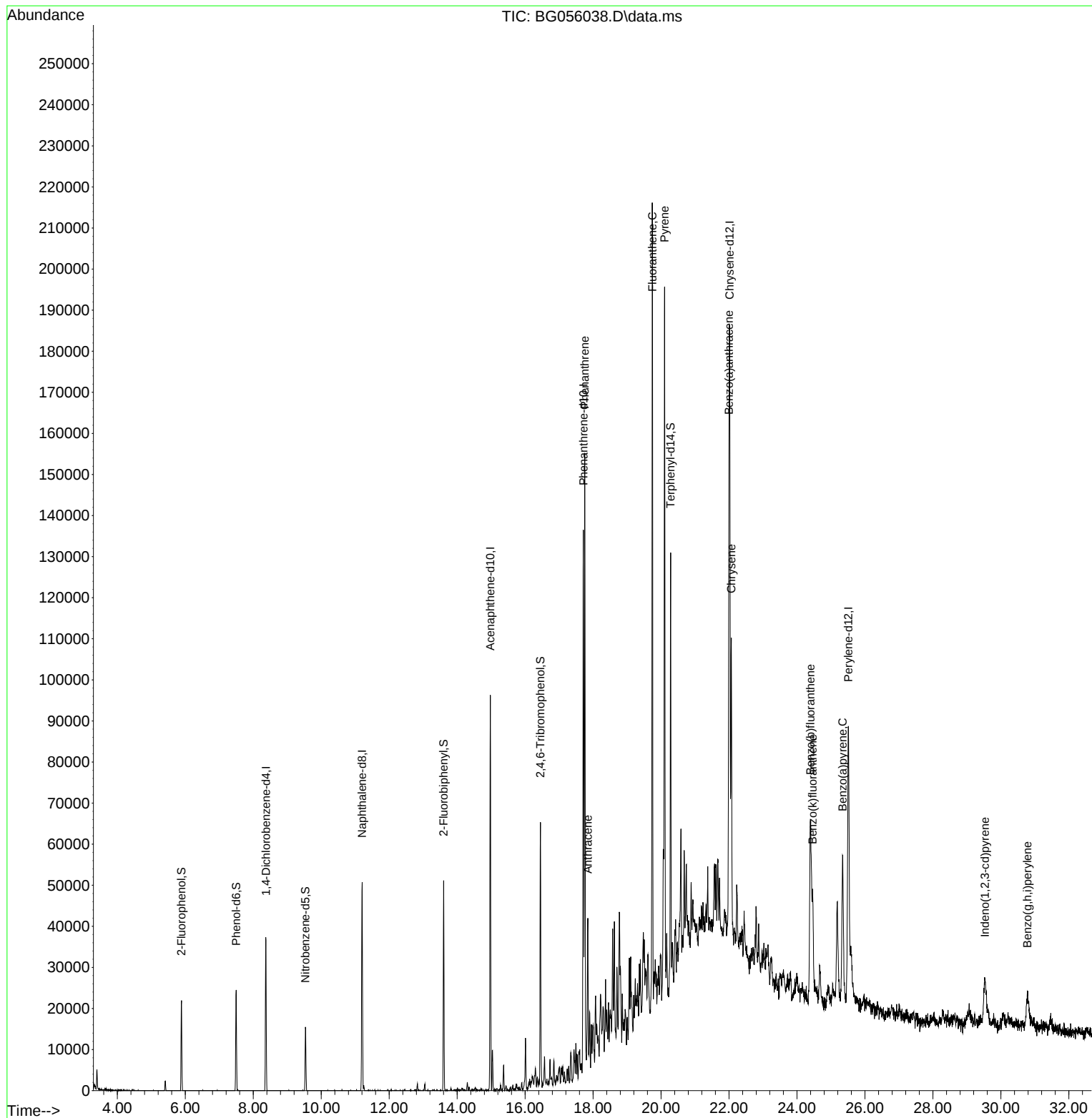
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122022\
Data File : BG056038.D
Acq On : 20 Dec 2022 20:31
Operator : CG/JU
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Misc :
ALS Vial : 15 Sample Multiplier: 1

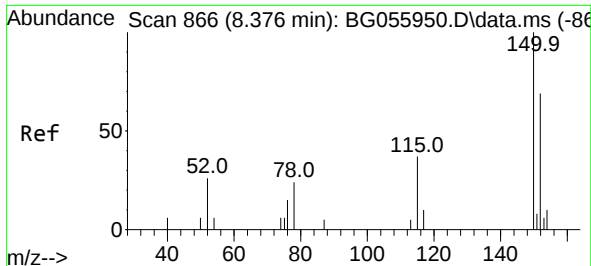
Instrument :
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WC-SOIL-20221214DL

Quant Time: Dec 21 02:40:59 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG121322.M
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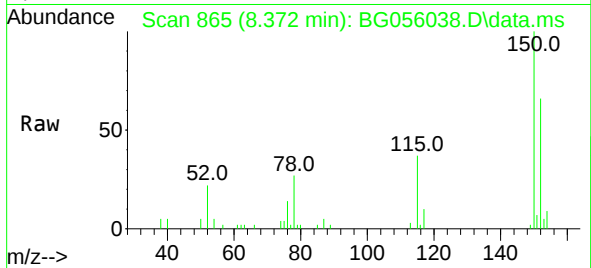
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.372 min Scan# 866
Delta R.T. 0.007 min
Lab File: BG056038.D
Acq: 20 Dec 2022 20:31

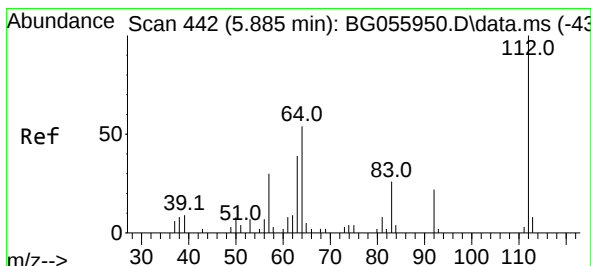
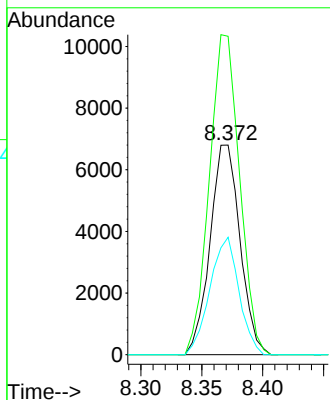
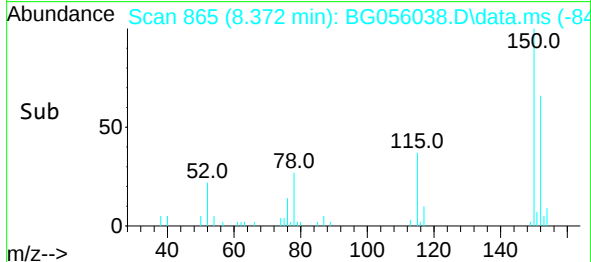
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BNA_G
ClientSampleId :
WC-SOIL-20221214DL



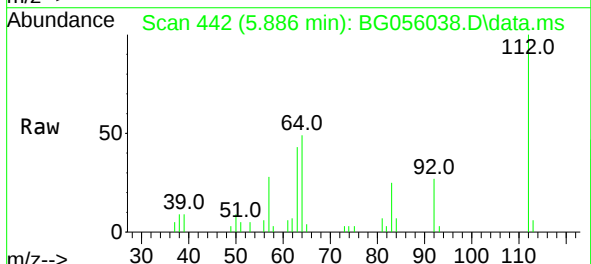
Tgt Ion:152 Resp: 11650
Ion Ratio Lower Upper
152 100
150 151.8 115.7 173.5
115 56.0 43.0 64.4

Manual Integrations
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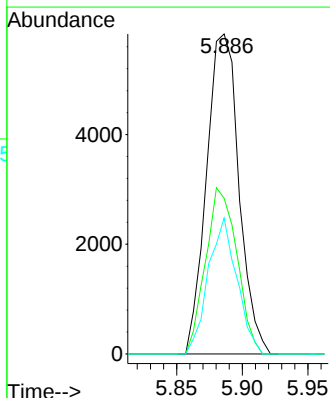
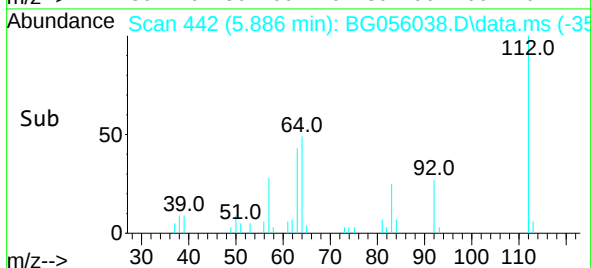
Reviewed By :Christian Giraldo 12/21/2022
Supervised By :Jagrut Upadhyay 12/21/2022

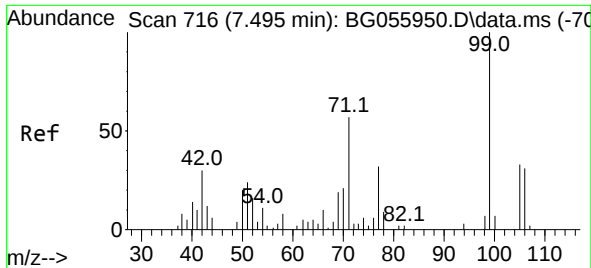


#5
2-Fluorophenol
Concen: 20.203 ng
RT: 5.886 min Scan# 442
Delta R.T. 0.007 min
Lab File: BG056038.D
Acq: 20 Dec 2022 20:31



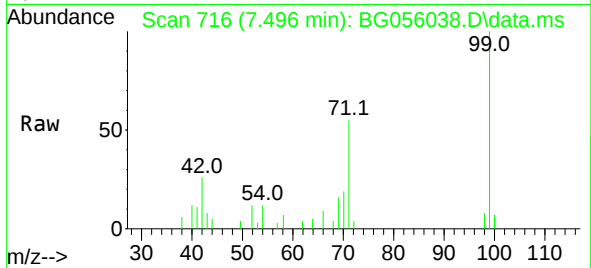
Tgt Ion:112 Resp: 10036
Ion Ratio Lower Upper
112 100
64 48.6 43.0 64.4
63 42.5 31.4 47.2





#7
Phenol-d6
Concen: 19.214 ng
RT: 7.496 min Scan# 716
Delta R.T. 0.001 min
Lab File: BG056038.D
Acq: 20 Dec 2022 20:31

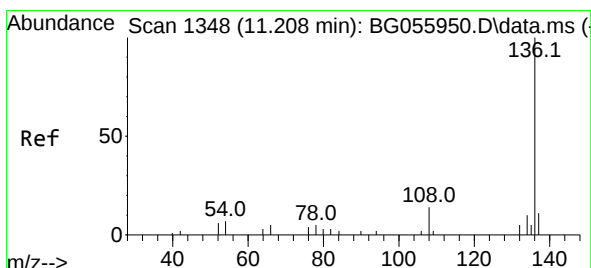
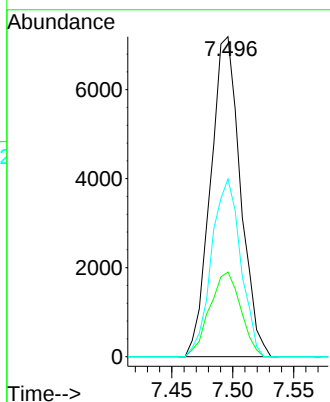
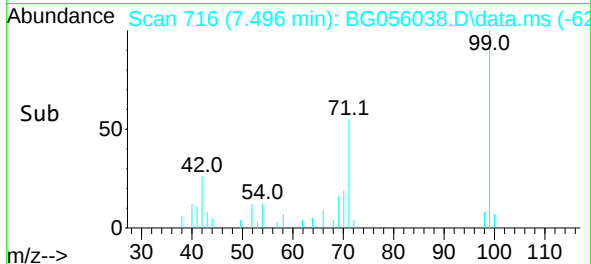
Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214DL



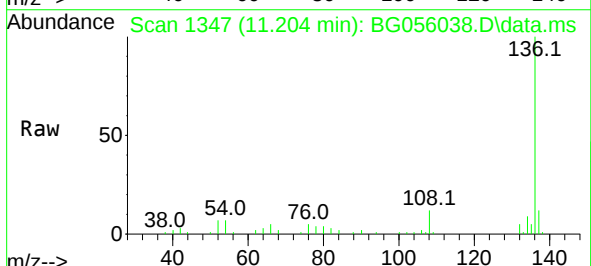
Tgt Ion: 99 Resp: 12270
Ion Ratio Lower Upper
99 100
42 26.5 24.3 36.5
71 55.5 45.6 68.4

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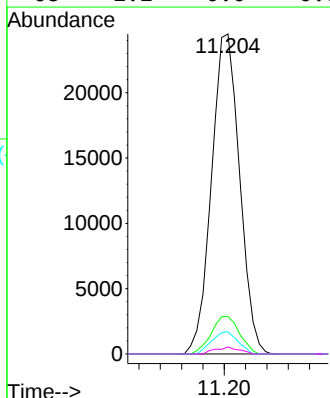
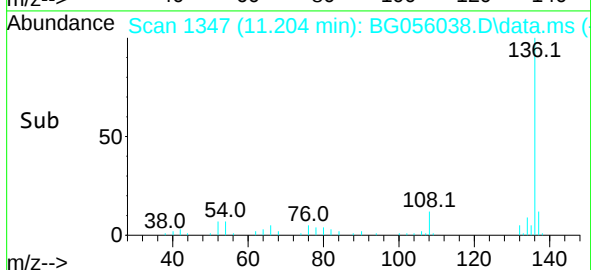
Reviewed By :Christian Giraldo 12/21/2022
Supervised By :Jagrut Upadhyay 12/21/2022

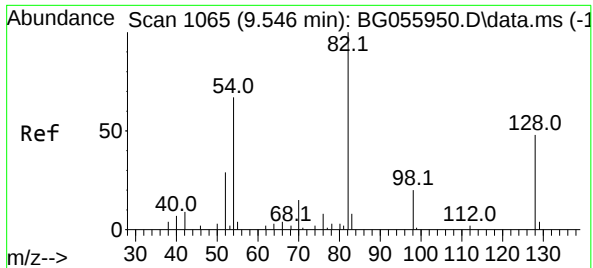


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.204 min Scan# 1347
Delta R.T. 0.007 min
Lab File: BG056038.D
Acq: 20 Dec 2022 20:31



Tgt Ion:136 Resp: 44729
Ion Ratio Lower Upper
136 100
137 11.7 9.2 13.8
54 6.9 5.6 8.4
68 2.2 0.0 0.0#





#23

Nitrobenzene-d5

Concen: 13.086 ng

RT: 9.535 min Scan# 1063

Delta R.T. -0.005 min

Lab File: BG056038.D

Acq: 20 Dec 2022 20:31

Instrument :

BNA_G

ClientSampleId :

WC-SOIL-20221214DL

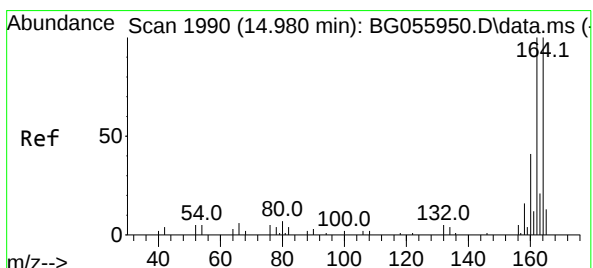
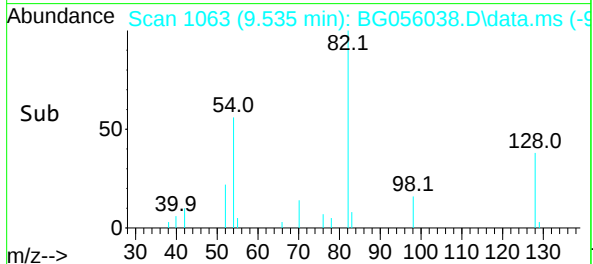
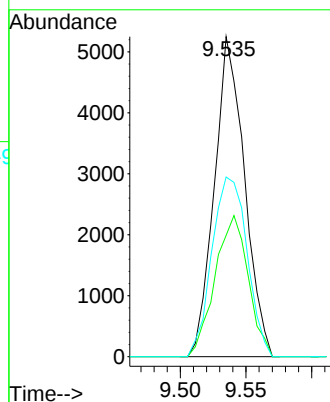
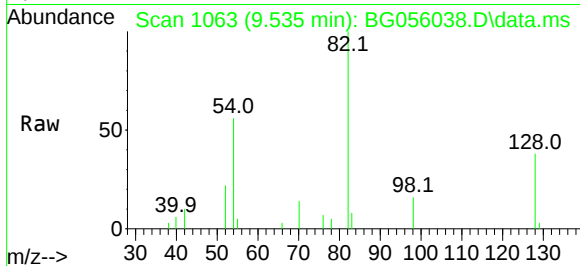
Tgt Ion: 82	Resp: 8370
Ion Ratio	Lower Upper
82	100
128	37.9 38.4 57.6
54	56.2 53.3 79.9

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#39

Acenaphthene-d10

Concen: 20.000 ng

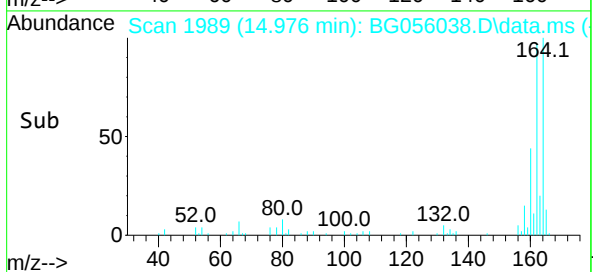
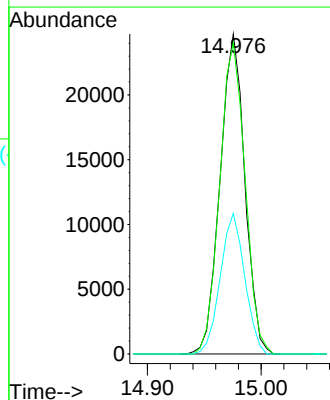
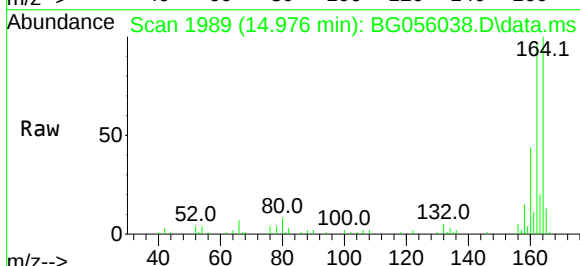
RT: 14.976 min Scan# 1989

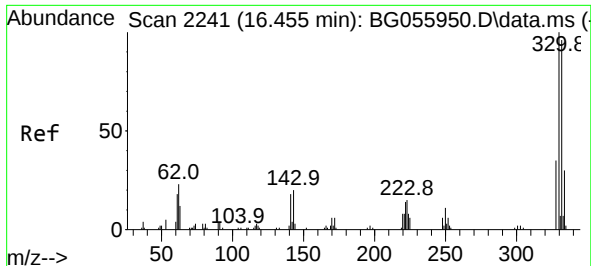
Delta R.T. 0.001 min

Lab File: BG056038.D

Acq: 20 Dec 2022 20:31

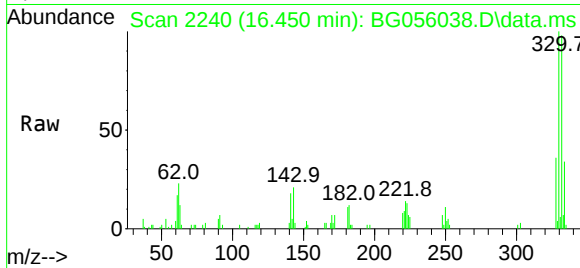
Tgt Ion:164	Resp: 37334
Ion Ratio	Lower Upper
164	100
162	97.2 79.8 119.8
160	43.9 33.0 49.4





#42
2,4,6-Tribromophenol
Concen: 17.710 ng
RT: 16.450 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG056038.D
Acq: 20 Dec 2022 20:31

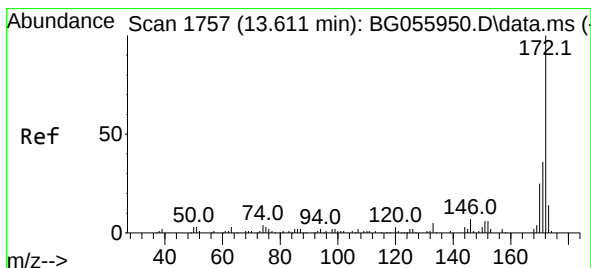
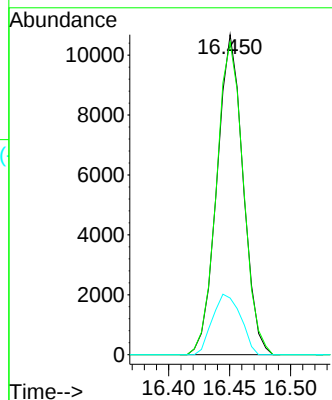
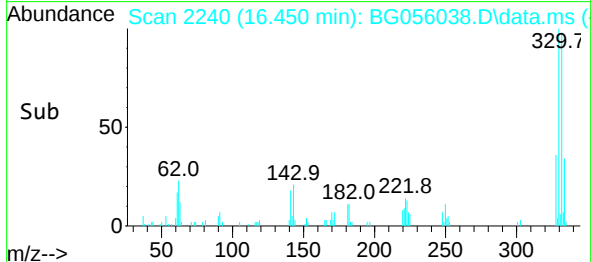
Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214DL



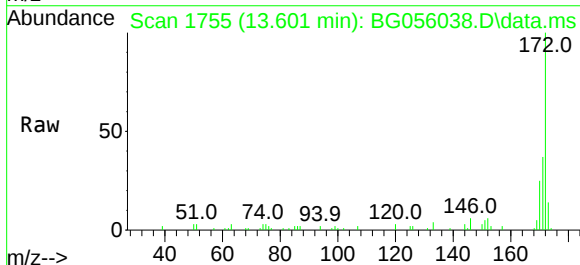
Tgt Ion:330 Resp: 1594
Ion Ratio Lower Upper
330 100
332 100.3 76.6 114.8
141 20.4 15.0 22.4

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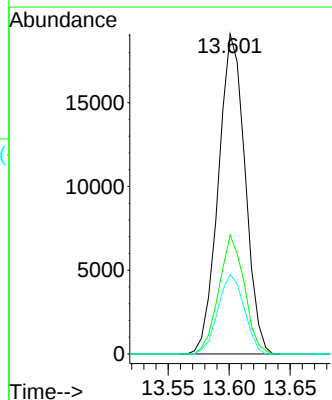
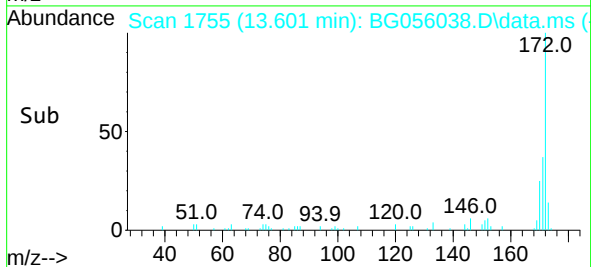
Reviewed By :Christian Giraldo 12/21/2022
Supervised By :Jagrut Upadhyay 12/21/2022

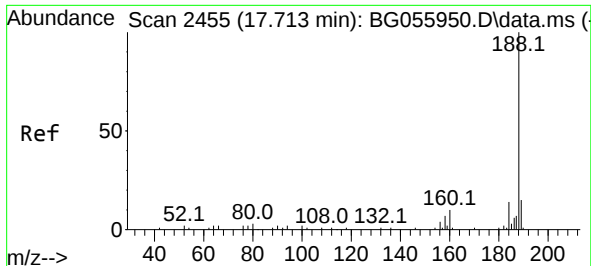


#45
2-Fluorobiphenyl
Concen: 10.910 ng
RT: 13.601 min Scan# 1755
Delta R.T. 0.001 min
Lab File: BG056038.D
Acq: 20 Dec 2022 20:31



Tgt Ion:172 Resp: 29041
Ion Ratio Lower Upper
172 100
171 37.1 28.6 42.8
170 24.9 19.9 29.9





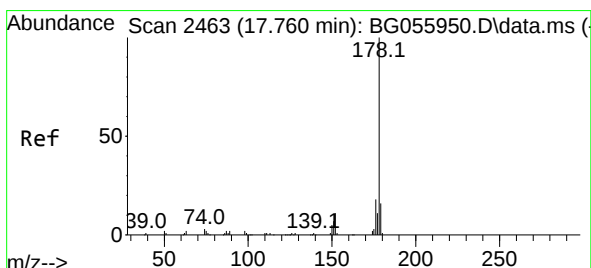
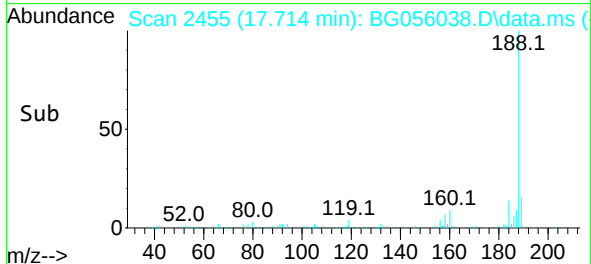
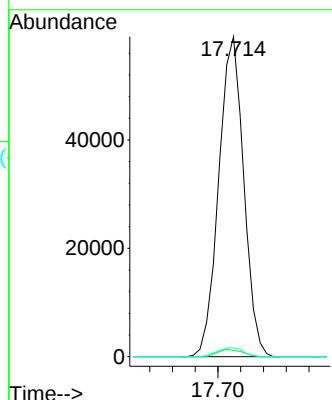
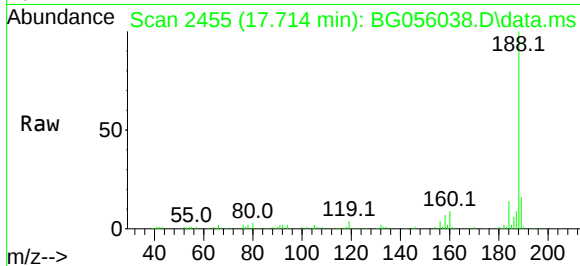
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.714 min Scan# 2455
Delta R.T. 0.007 min
Lab File: BG056038.D
Acq: 20 Dec 2022 20:31

Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214DL

Tgt Ion:188 Resp: 8998
Ion Ratio Lower Upper
188 100
94 1.9 1.8 2.8
80 2.8 2.4 3.6

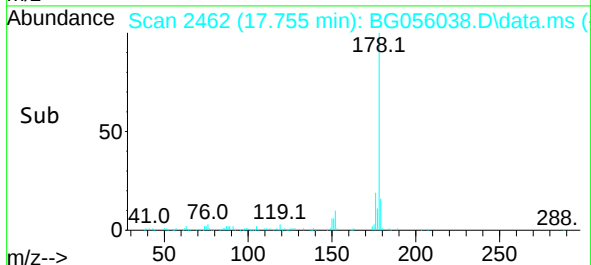
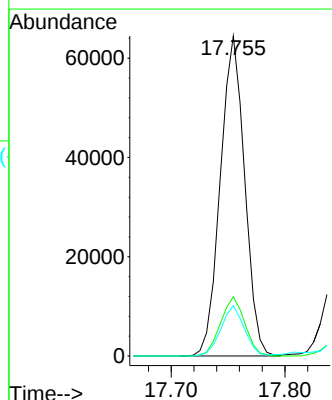
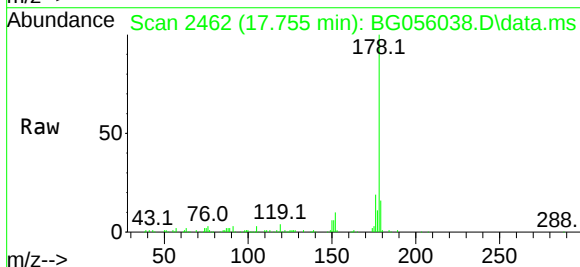
Manual Integrations APPROVED

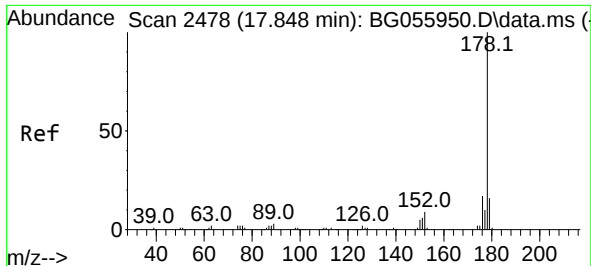
Reviewed By :Christian Giraldo 12/21/2022
Supervised By :Jagrut Upadhyay 12/21/2022



#71
Phenanthrene
Concen: 20.306 ng
RT: 17.755 min Scan# 2462
Delta R.T. 0.001 min
Lab File: BG056038.D
Acq: 20 Dec 2022 20:31

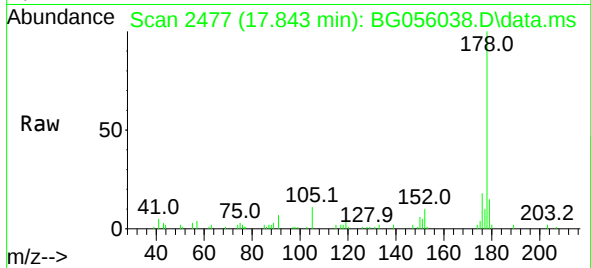
Tgt Ion:178 Resp: 95759
Ion Ratio Lower Upper
178 100
176 18.5 14.4 21.6
179 15.8 12.7 19.1





#72
 Anthracene
 Concen: 4.933 ng
 RT: 17.843 min Scan# 2478
 Delta R.T. 0.001 min
 Lab File: BG056038.D
 Acq: 20 Dec 2022 20:31

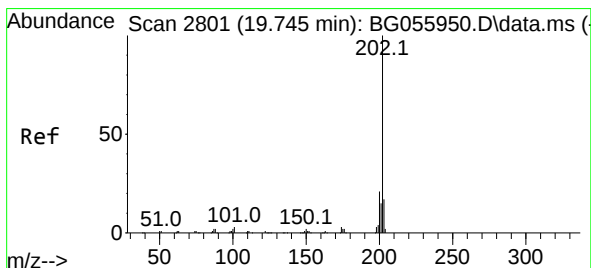
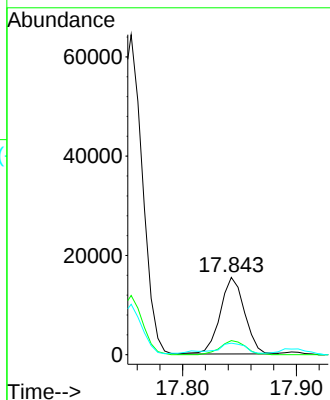
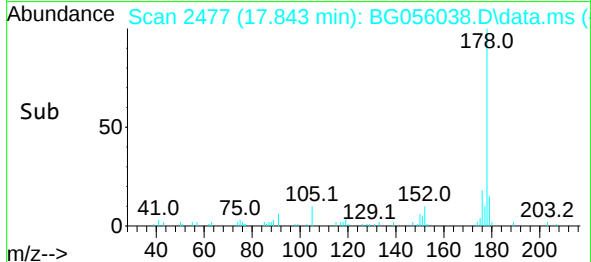
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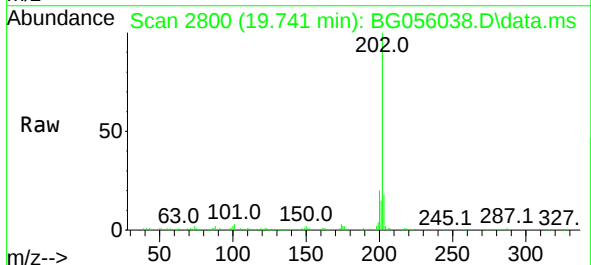
Tgt Ion:178 Resp: 23014
 Ion Ratio Lower Upper
 178 100
 176 18.2 13.9 20.9
 179 14.8 12.7 19.1

Manual Integrations
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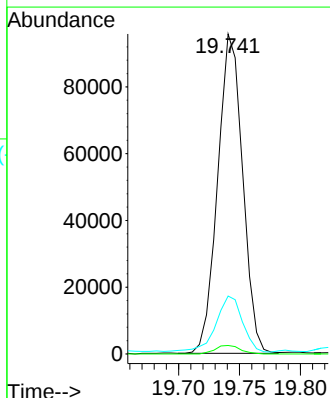
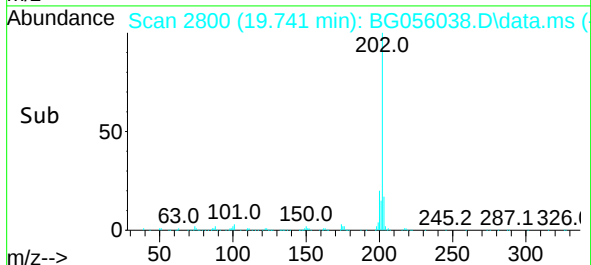
Reviewed By :Christian Giraldo 12/21/2022
 Supervised By :Jagrut Upadhyay 12/21/2022

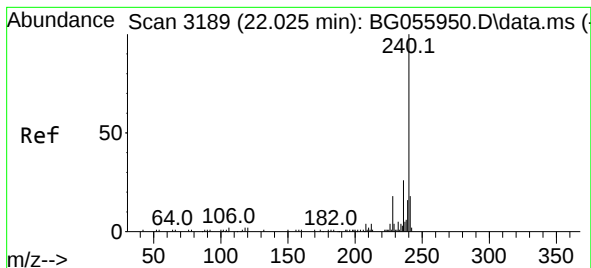


#75
 Fluoranthene
 Concen: 20.696 ng
 RT: 19.741 min Scan# 2800
 Delta R.T. 0.001 min
 Lab File: BG056038.D
 Acq: 20 Dec 2022 20:31



Tgt Ion:202 Resp: 136669
 Ion Ratio Lower Upper
 202 100
 101 2.7 0.0 22.6
 203 18.1 0.0 37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 22.020 min Scan# 3189

Delta R.T. 0.007 min

Lab File: BG056038.D

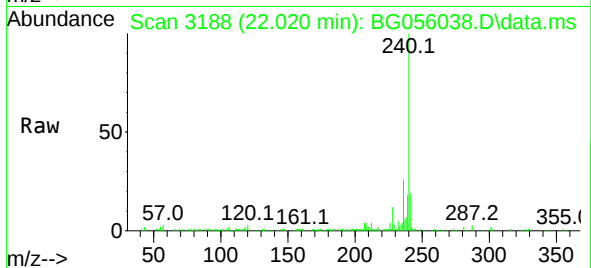
Acq: 20 Dec 2022 20:31

Instrument :

BNA_G

ClientSampleId :

WC-SOIL-20221214DL



Tgt Ion:240 Resp: 92000

Ion Ratio Lower Upper

240 100

120 3.1 1.7 2.5

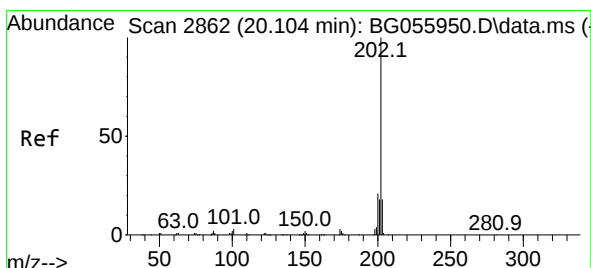
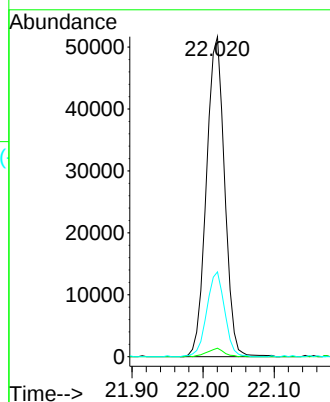
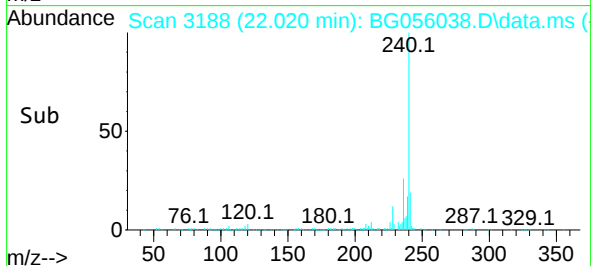
236 26.5 21.1 31.7

Manual Integrations

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Reviewed By :Christian Giraldo 12/21/2022

Supervised By :Jagrut Upadhyay 12/21/2022



#78

Pyrene

Concen: 22.134 ng

RT: 20.105 min Scan# 2862

Delta R.T. 0.007 min

Lab File: BG056038.D

Acq: 20 Dec 2022 20:31

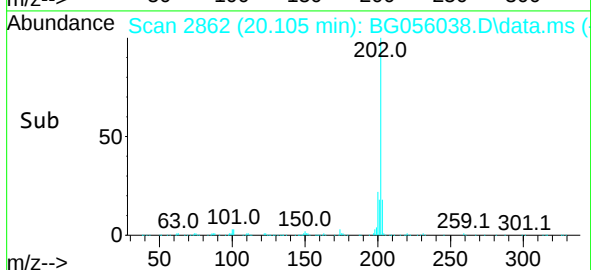
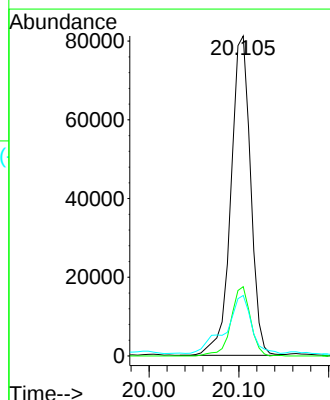
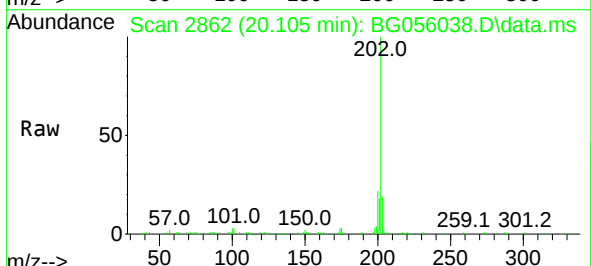
Tgt Ion:202 Resp: 123224

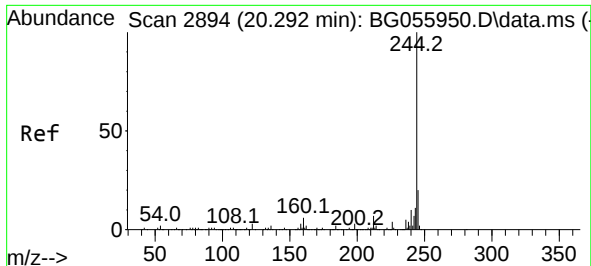
Ion Ratio Lower Upper

202 100

200 21.6 16.7 25.1

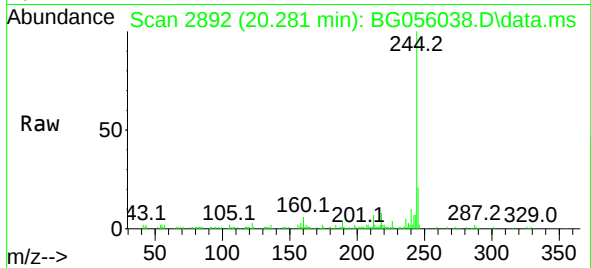
203 18.9 14.6 21.8





#79
 Terphenyl-d14
 Concen: 9.820 ng
 RT: 20.281 min Scan# 2118
 Delta R.T. 0.001 min
 Lab File: BG056038.D
 Acq: 20 Dec 2022 20:31

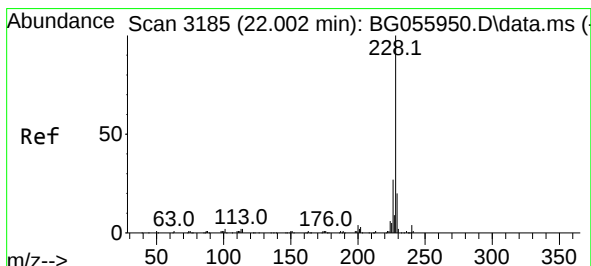
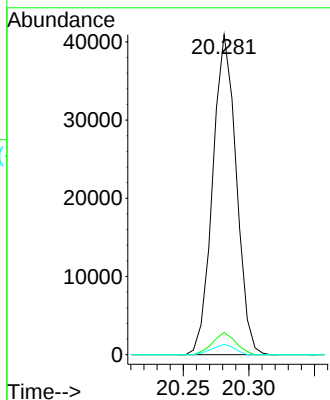
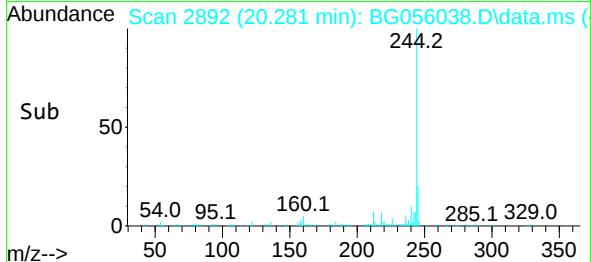
Instrument :
 BNA_G
 ClientSampleId :
 WC-SOIL-20221214DL



Tgt Ion:244 Resp: 51118
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.8 8.6
 122 3.2 2.5 3.7

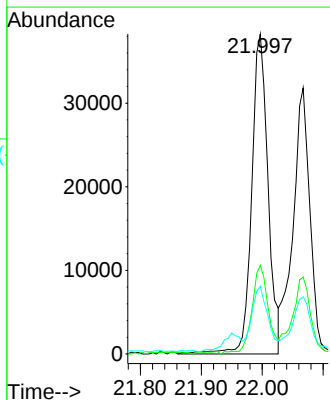
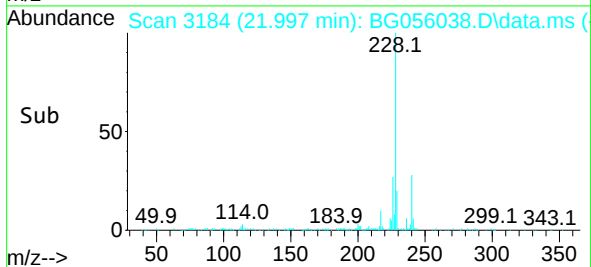
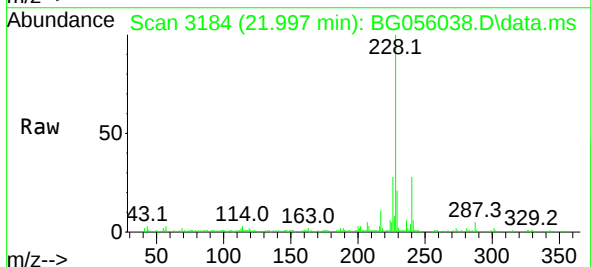
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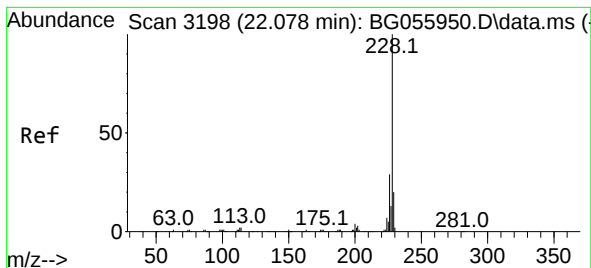
Reviewed By :Christian Giraldo 12/21/2022
 Supervised By :Jagrut Upadhyay 12/21/2022



#81
 Benzo(a)anthracene
 Concen: 11.043 ng
 RT: 21.997 min Scan# 3184
 Delta R.T. 0.001 min
 Lab File: BG056038.D
 Acq: 20 Dec 2022 20:31

Tgt Ion:228 Resp: 71492
 Ion Ratio Lower Upper
 228 100
 226 27.7 21.8 32.6
 229 21.2 15.9 23.9





#83

Chrysene

Concen: 10.028 ng

RT: 22.067 min Scan# 3196

Delta R.T. 0.001 min

Lab File: BG056038.D

Acq: 20 Dec 2022 20:31

Instrument :

BNA_G

ClientSampleId :

WC-SOIL-20221214DL

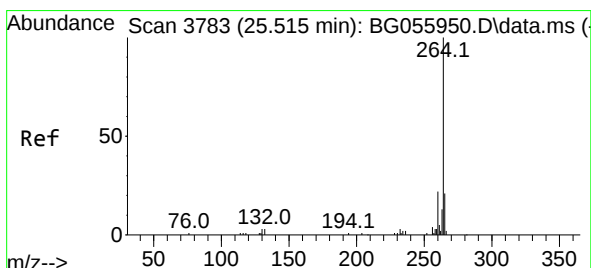
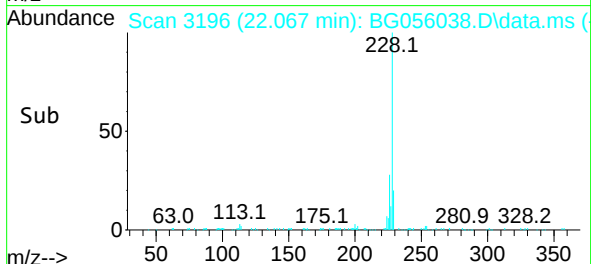
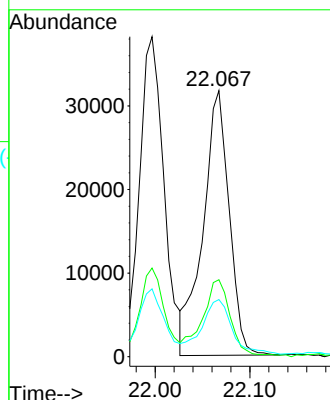
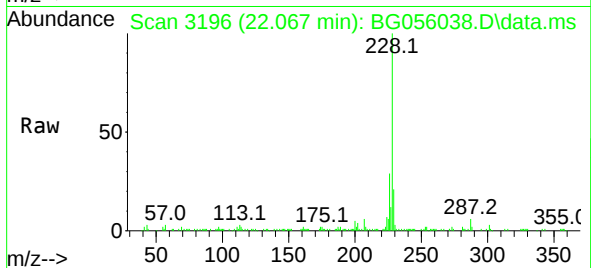
Tgt Ion:228 Resp: 60840

Ion	Ratio	Lower	Upper
228	100		
226	28.9	23.1	34.7
229	21.4	15.7	23.5

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Reviewed By :Christian Giraldo 12/21/2022
Supervised By :Jagrut Upadhyay 12/21/2022



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.510 min Scan# 3782

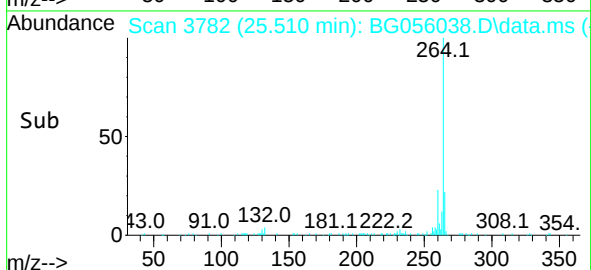
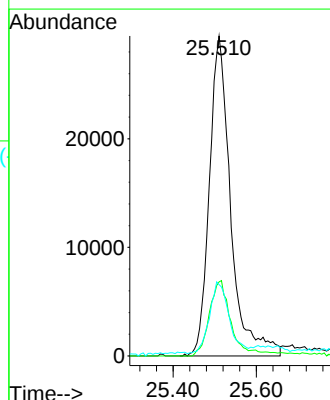
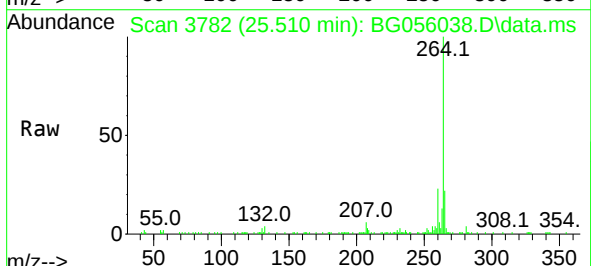
Delta R.T. 0.013 min

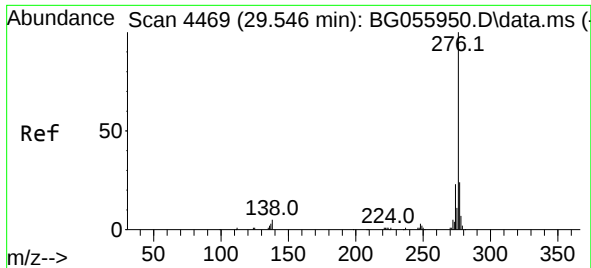
Lab File: BG056038.D

Acq: 20 Dec 2022 20:31

Tgt Ion:264 Resp: 104846

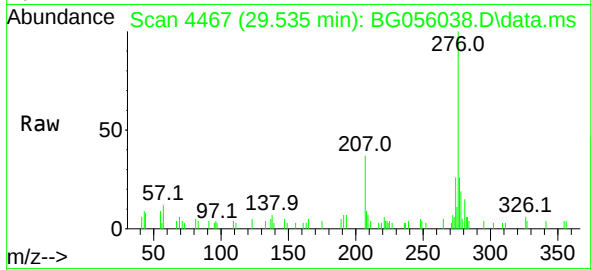
Ion	Ratio	Lower	Upper
264	100		
260	23.1	17.8	26.8
265	22.3	16.6	25.0





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 3.346 ng
 RT: 29.535 min Scan# 4467
 Delta R.T. 0.013 min
 Lab File: BG056038.D
 Acq: 20 Dec 2022 20:31

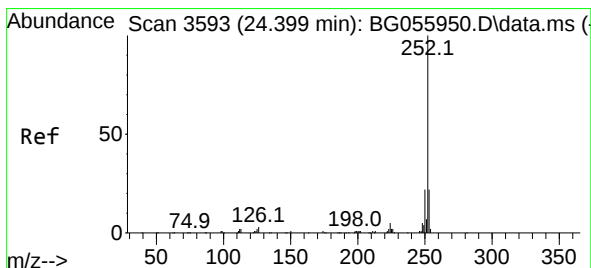
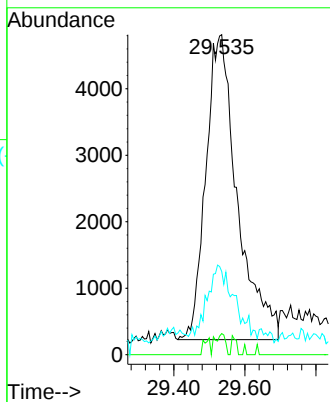
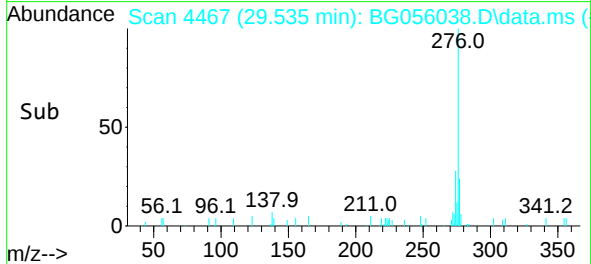
Instrument :
 BNA_G
 ClientSampleId :
 WC-SOIL-20221214DL



Tgt Ion: 276 Resp: 2820
 Ion Ratio Lower Upper
 276 100
 138 2.2 3.0 4.4
 277 23.1 20.4 30.6

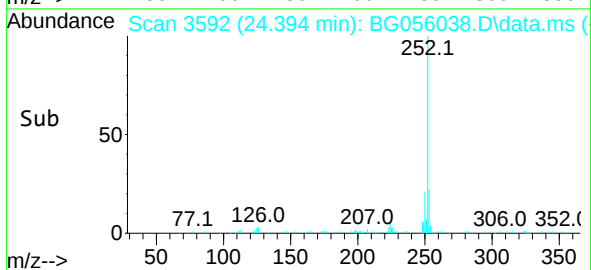
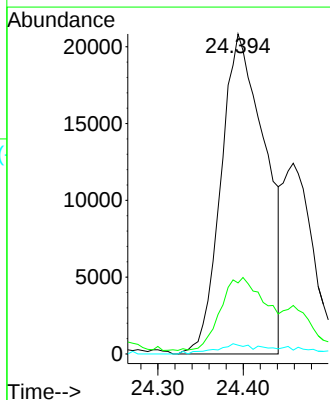
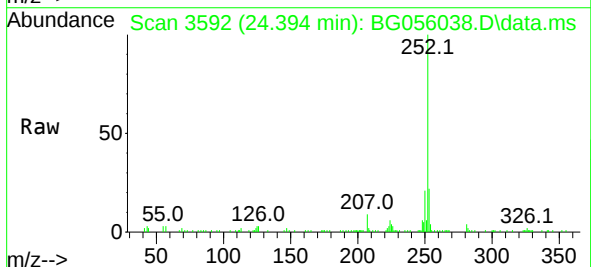
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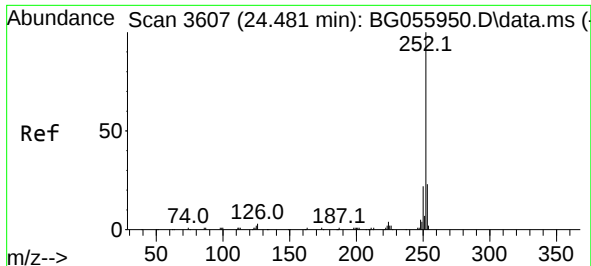
Reviewed By : Christian Giraldo 12/21/2022
 Supervised By : Jagrut Upadhyay 12/21/2022



#88
 Benzo(b)fluoranthene
 Concen: 11.007 ng
 RT: 24.394 min Scan# 3592
 Delta R.T. 0.007 min
 Lab File: BG056038.D
 Acq: 20 Dec 2022 20:31

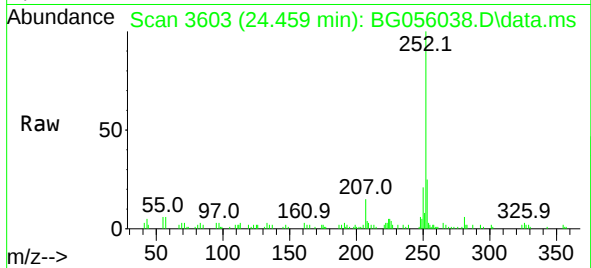
Tgt Ion: 252 Resp: 74690
 Ion Ratio Lower Upper
 252 100
 253 22.2 17.4 26.0
 125 2.8 1.8 2.8#





#89
Benzo(k)fluoranthene
Concen: 4.470 ng m
RT: 24.459 min Scan# 3025
Delta R.T. -0.005 min
Lab File: BG056038.D
Acq: 20 Dec 2022 20:31

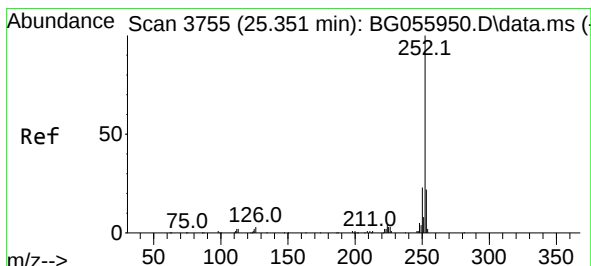
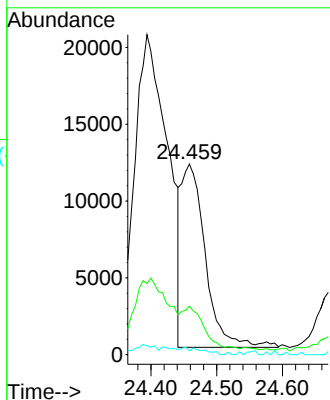
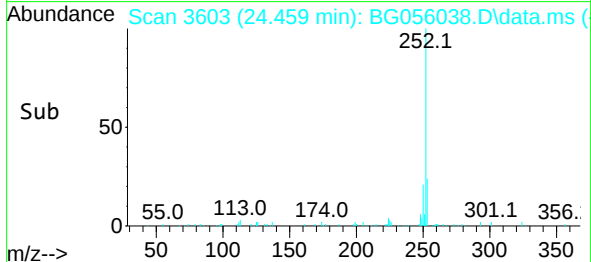
Instrument :
BNA_G
ClientSampleId :
WC-SOIL-20221214DL



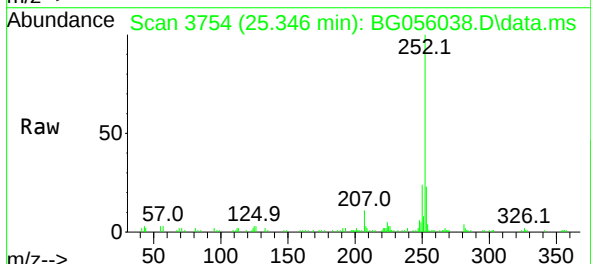
Tgt Ion:252 Resp: 3025
Ion Ratio Lower Upper
252 100
253 25.5 18.2 27.2
125 2.0 2.0 3.0

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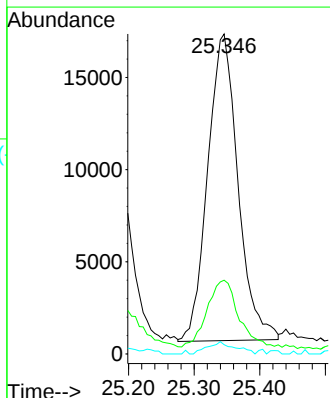
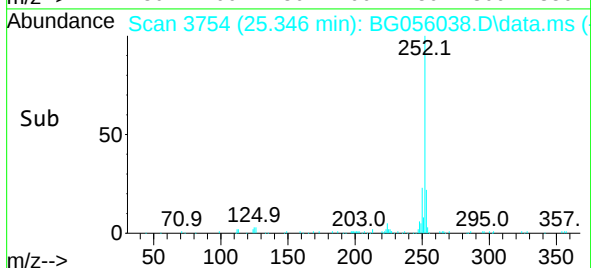
Reviewed By :Christian Giraldo 12/21/2022
Supervised By :Jagrut Upadhyay 12/21/2022

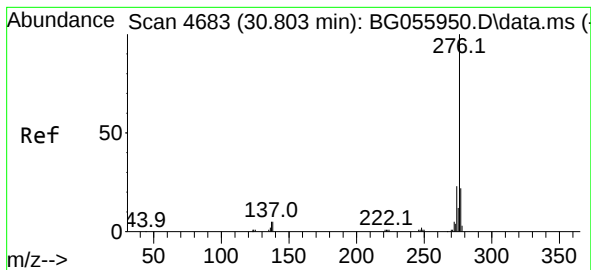


#90
Benzo(a)pyrene
Concen: 9.308 ng
RT: 25.346 min Scan# 3754
Delta R.T. 0.013 min
Lab File: BG056038.D
Acq: 20 Dec 2022 20:31



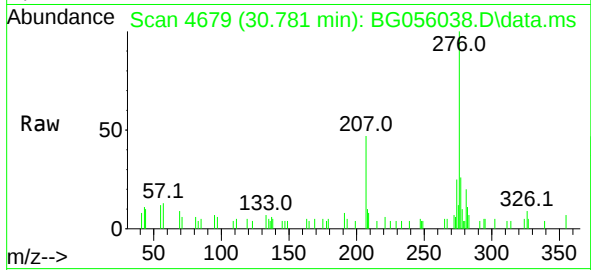
Tgt Ion:252 Resp: 53389
Ion Ratio Lower Upper
252 100
253 23.0 17.7 26.5
125 2.9 1.9 2.9#





#92
 Benzo(g,h,i)perylene
 Concen: 3.213 ng
 RT: 30.781 min Scan# 4679
 Delta R.T. -0.011 min
 Lab File: BG056038.D
 Acq: 20 Dec 2022 20:31

Instrument :
 BNA_G
 ClientSampleId :
 WC-SOIL-20221214DL



Tgt Ion:276 Resp: 2192
 Ion Ratio Lower Upper
 276 100
 277 26.4 17.8 26.6
 138 5.3 3.8 5.6

Manual Integrations
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Reviewed By :Christian Giraldo 12/21/2022
 Supervised By :Jagrut Upadhyay 12/21/2022

