

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM033023\
 Data File : BM039243.D
 Acq On : 31 Mar 2023 01:14
 Operator : CG/JU
 Sample : 02105-01 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 WV-SOIL1-0327

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 03/31/2023
 Supervised By : Jagrut Upadhyay 03/31/2023

Quant Time: Mar 31 02:45:03 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM032923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 30 05:15:45 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	247754	20.000	ng	0.00
21) Naphthalene-d8	10.733	136	983656	20.000	ng	0.00
39) Acenaphthene-d10	14.563	164	554866	20.000	ng	-0.01
64) Phenanthrene-d10	17.315	188	1148595	20.000	ng	0.00
76) Chrysene-d12	21.497	240	1085896	20.000	ng	0.00
86) Perylene-d12	23.909	264	1248542	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	277503	16.875	ng	0.00
7) Phenol-d6	7.087	99	343162	16.134	ng	-0.01
23) Nitrobenzene-d5	9.086	82	207525	10.254	ng	-0.01
42) 2,4,6-Tribromophenol	16.057	330	103900	14.751	ng	0.00
45) 2-Fluorobiphenyl	13.192	172	428479	10.463	ng	0.00
79) Terphenyl-d14	19.933	244	643163	10.943	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	17.356	178	1174763	18.675	ng	100
72) Anthracene	17.445	178	209123	3.260	ng	99
75) Fluoranthene	19.368	202	1427428	19.906	ng	99
78) Pyrene	19.733	202	1434530	18.557	ng	99
81) Benzo(a)anthracene	21.480	228	694913	9.074	ng	99
83) Chrysene	21.533	228	621630	8.408	ng	97
87) Indeno(1,2,3-cd)pyrene	26.409	276	312679	3.399	ng	96
88) Benzo(b)fluoranthene	23.174	252	707223	9.257	ng	97
89) Benzo(k)fluoranthene	23.221	252	200028m	2.571	ng	
90) Benzo(a)pyrene	23.797	252	535241	7.132	ng	98
92) Benzo(g,h,i)perylene	27.179	276	311193	4.097	ng	98

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

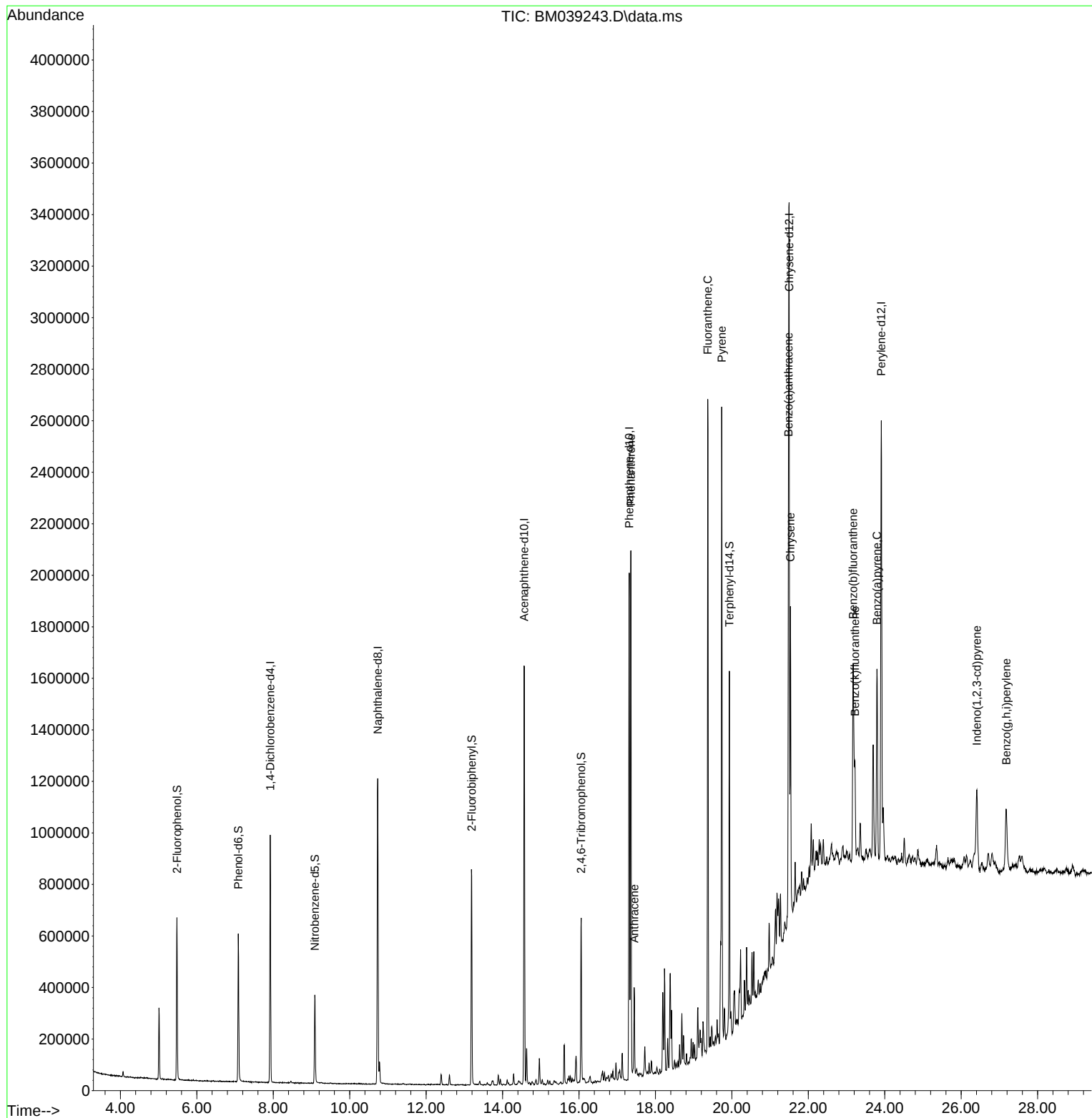
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM033023\
Data File : BM039243.D
Acq On : 31 Mar 2023 01:14
Operator : CG/JU
Sample : 02105-01 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

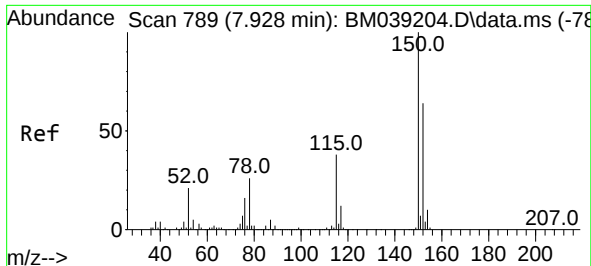
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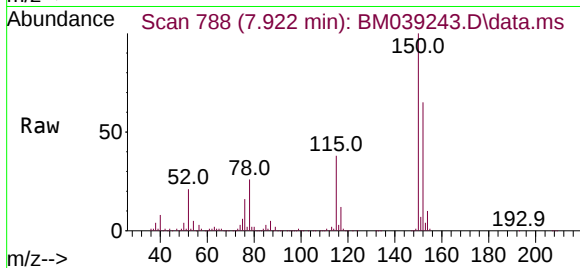
Quant Time: Mar 31 02:45:03 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM032923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 30 05:15:45 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.922 min Scan# 789
Delta R.T. -0.006 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

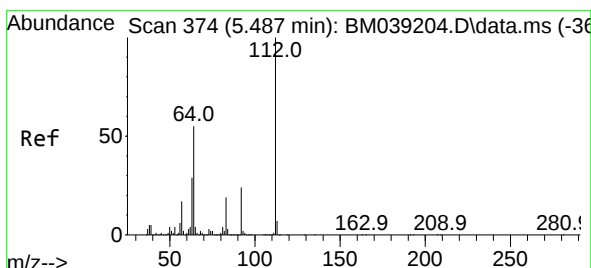
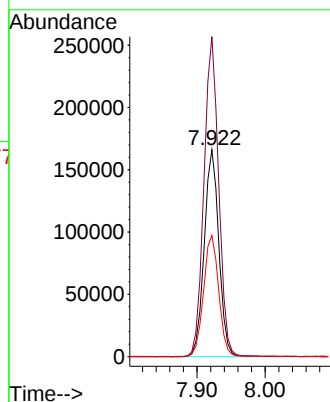
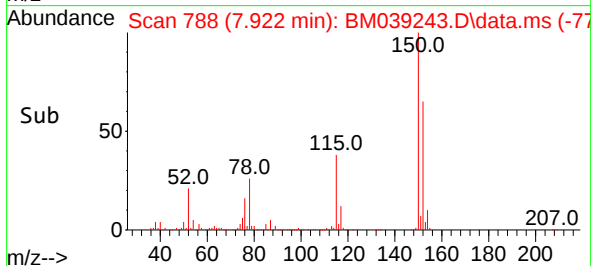
Instrument :
BNA_M
ClientSampleId :
WV-SOIL1-0327



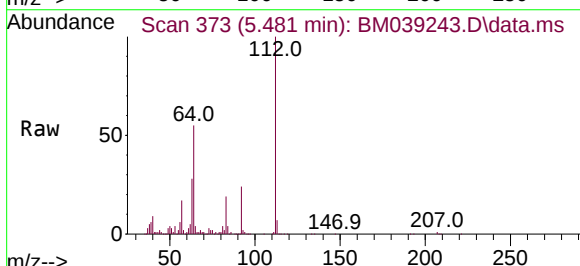
Tgt Ion:152 Resp: 247754
Ion Ratio Lower Upper
152 100
150 154.7 125.5 188.3
115 58.6 48.1 72.1

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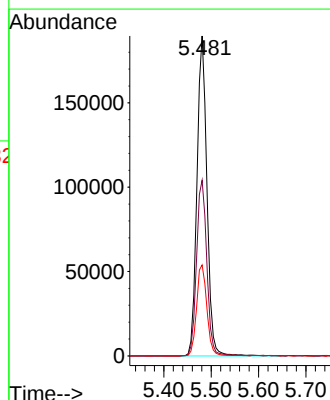
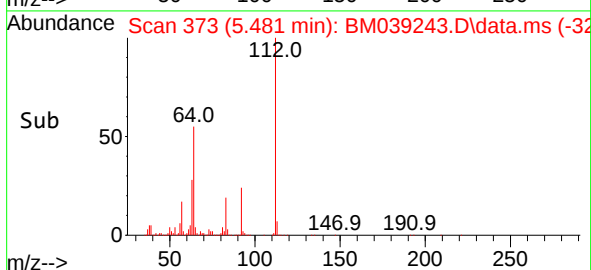
Reviewed By :Christian Giraldo 03/31/2023
Supervised By :Jagrut Upadhyay 03/31/2023

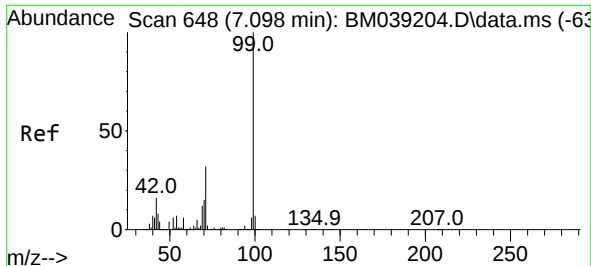


#5
2-Fluorophenol
Concen: 16.875 ng
RT: 5.481 min Scan# 373
Delta R.T. -0.006 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14



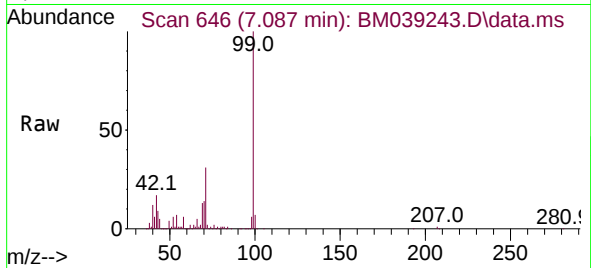
Tgt Ion:112 Resp: 277503
Ion Ratio Lower Upper
112 100
64 54.9 44.3 66.5
63 28.4 23.0 34.6





#7
Phenol-d6
Concen: 16.134 ng
RT: 7.087 min Scan# 648
Delta R.T. -0.012 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

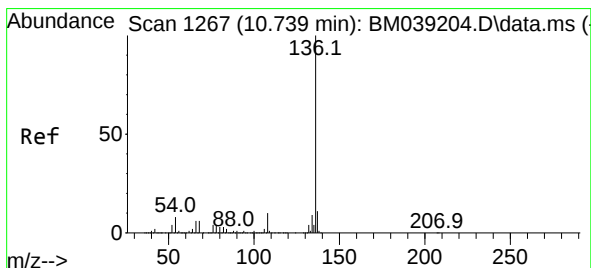
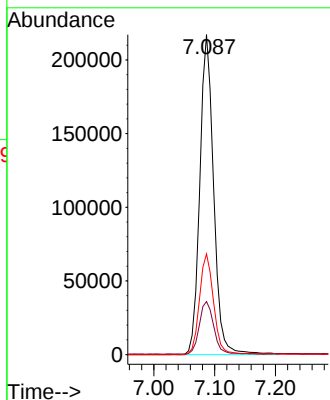
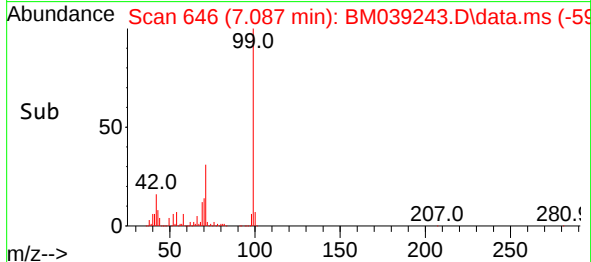
Instrument :
BNA_M
ClientSampleId :
WV-SOIL1-0327



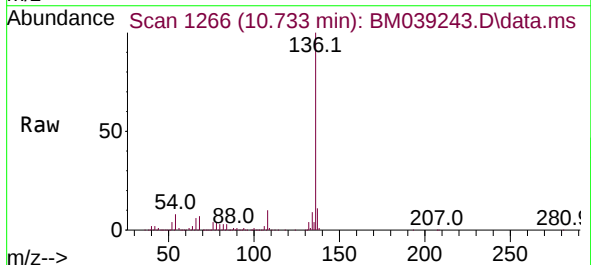
Tgt Ion: 99 Resp: 343162
Ion Ratio Lower Upper
99 100
42 16.6 13.0 19.6
71 31.5 25.5 38.3

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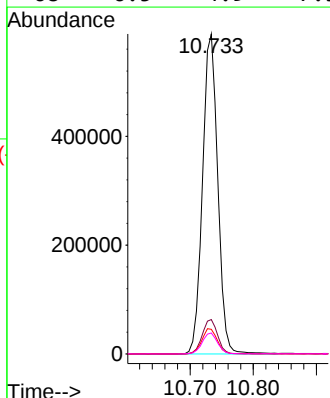
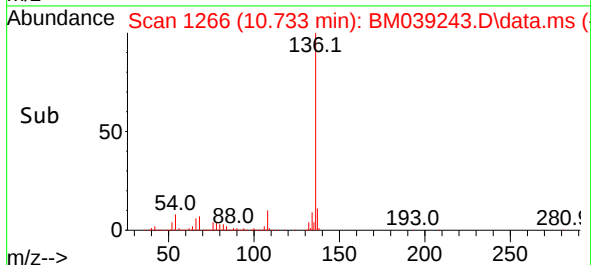
Reviewed By :Christian Giraldo 03/31/2023
Supervised By :Jagrut Upadhyay 03/31/2023

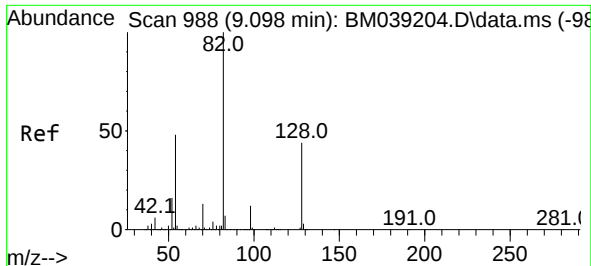


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.733 min Scan# 1266
Delta R.T. -0.006 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14



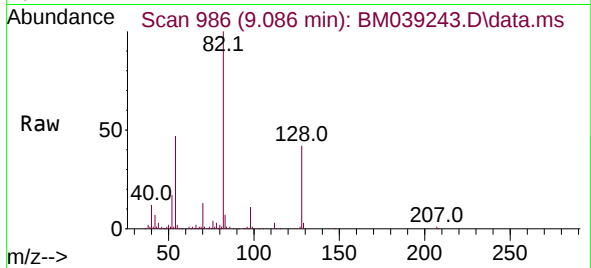
Tgt Ion:136 Resp: 983656
Ion Ratio Lower Upper
136 100
137 10.7 8.9 13.3
54 7.7 6.2 9.4
68 6.5 4.9 7.3





#23
Nitrobenzene-d5
Concen: 10.254 ng
RT: 9.086 min Scan# 988
Delta R.T. -0.012 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

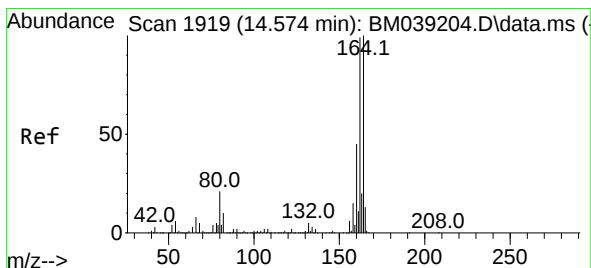
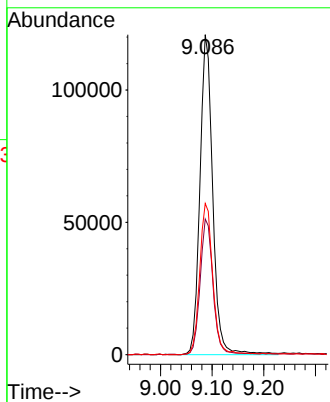
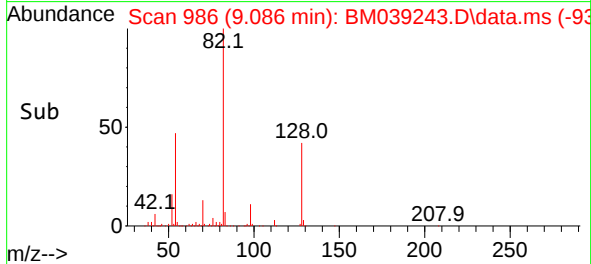
Instrument :
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Tgt Ion: 82 Resp: 207525
Ion Ratio Lower Upper
82 100
128 42.4 35.1 52.7
54 47.2 38.5 57.7

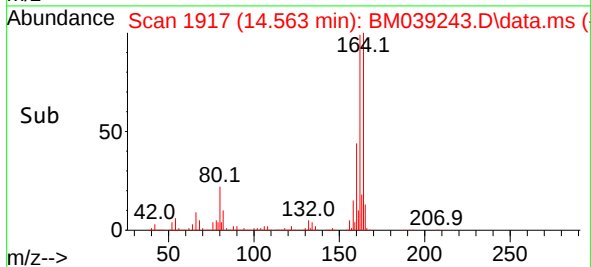
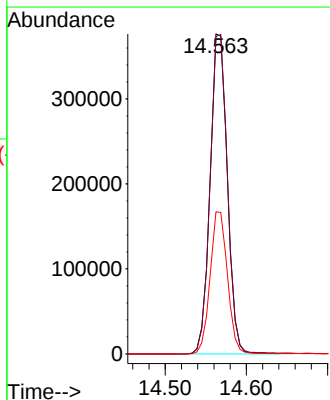
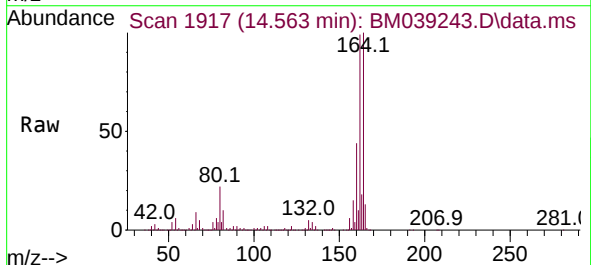
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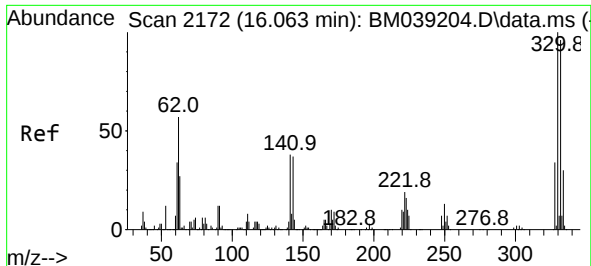
Reviewed By :Christian Giraldo 03/31/2023
Supervised By :Jagrut Upadhyay 03/31/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.563 min Scan# 1917
Delta R.T. -0.011 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

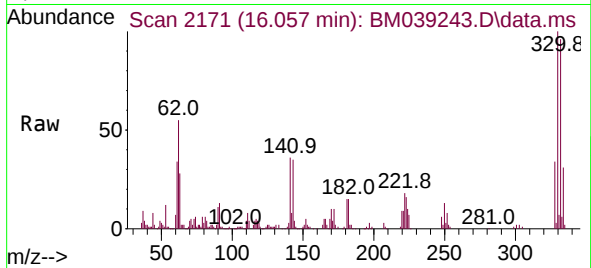
Tgt Ion:164 Resp: 554866
Ion Ratio Lower Upper
164 100
162 99.2 79.1 118.7
160 44.4 35.8 53.8





#42
2,4,6-Tribromophenol
Concen: 14.751 ng
RT: 16.057 min Scan# 2171
Delta R.T. -0.006 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

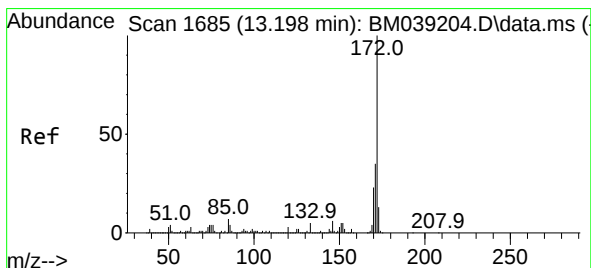
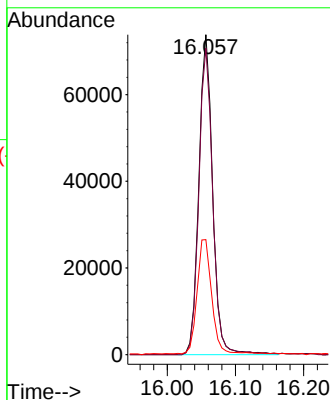
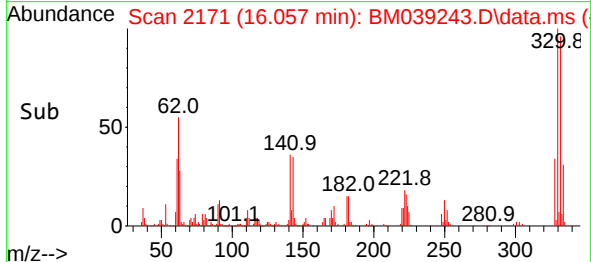
Instrument :
BNA_M
ClientSampleId :
WV-SOIL1-0327



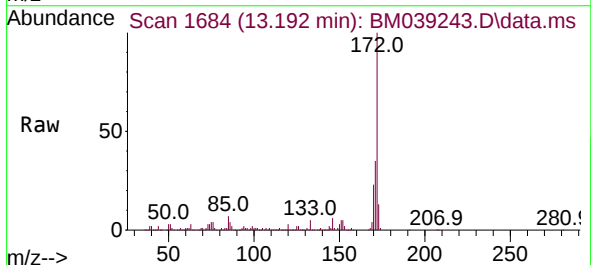
Tgt Ion: 330 Resp: 103900
Ion Ratio Lower Upper
330 100
332 96.3 77.4 116.0
141 37.7 29.8 44.6

Manual Integrations
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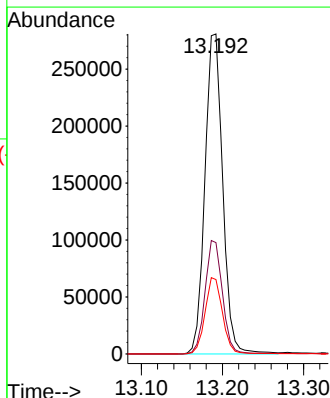
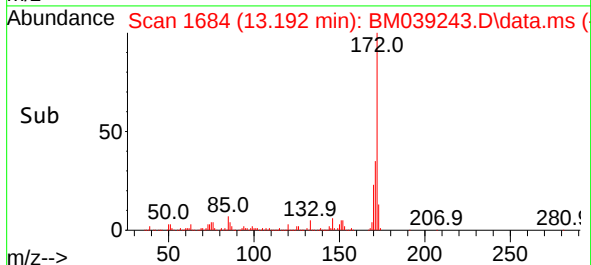
Reviewed By : Christian Giraldo 03/31/2023
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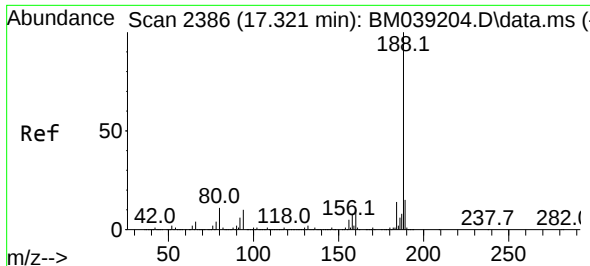


#45
2-Fluorobiphenyl
Concen: 10.463 ng
RT: 13.192 min Scan# 1684
Delta R.T. -0.006 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14



Tgt Ion: 172 Resp: 428479
Ion Ratio Lower Upper
172 100
171 34.8 28.0 42.0
170 23.2 18.7 28.1





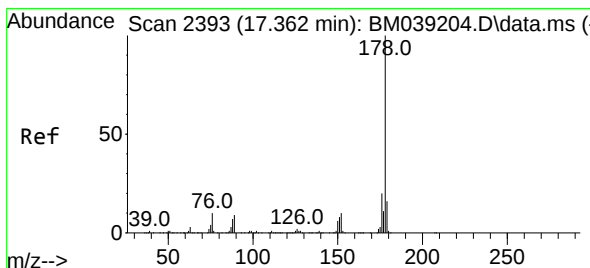
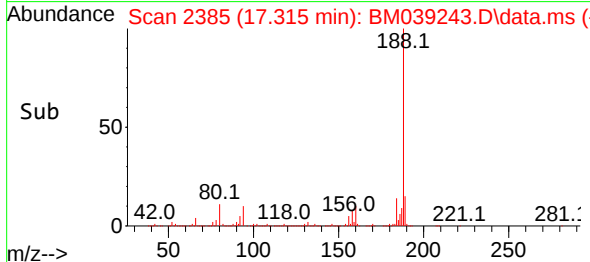
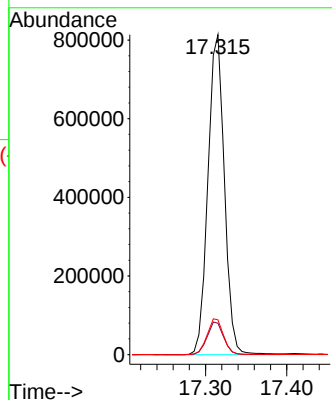
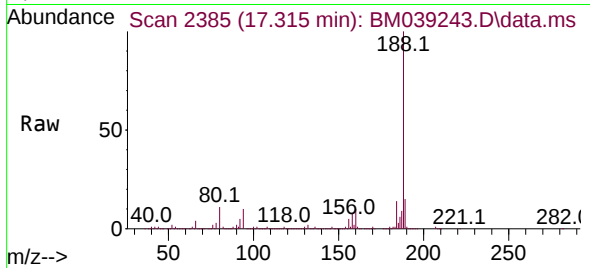
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.315 min Scan# 2385
Delta R.T. -0.006 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

Instrument :
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ClientSampleId :
WV-SOIL1-0327

Tgt Ion:188 Resp: 1148595
Ion Ratio Lower Upper
188 100
94 9.8 8.2 12.4
80 10.9 8.9 13.3

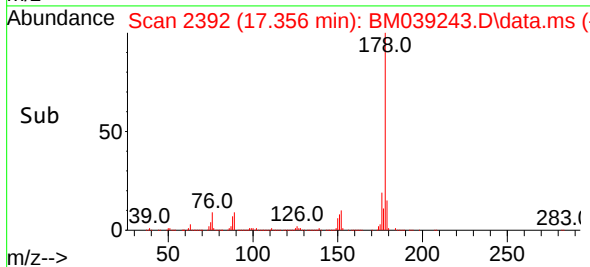
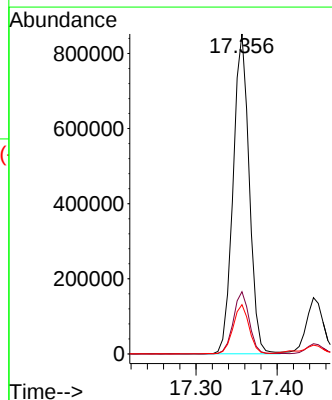
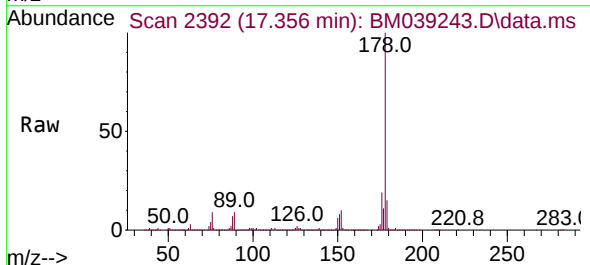
Manual Integrations
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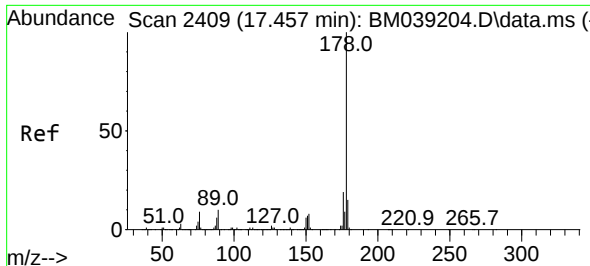
Reviewed By :Christian Giraldo 03/31/2023
Supervised By :Jagrut Upadhyay 03/31/2023



#71
Phenanthrene
Concen: 18.675 ng
RT: 17.356 min Scan# 2392
Delta R.T. -0.006 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

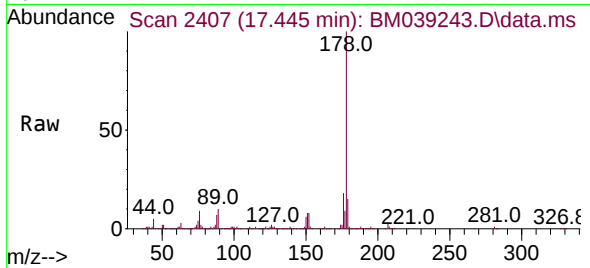
Tgt Ion:178 Resp: 1174763
Ion Ratio Lower Upper
178 100
176 19.4 15.7 23.5
179 15.4 12.4 18.6





#72
 Anthracene
 Concen: 3.260 ng
 RT: 17.445 min Scan# 2409
 Delta R.T. -0.012 min
 Lab File: BM039243.D
 Acq: 31 Mar 2023 01:14

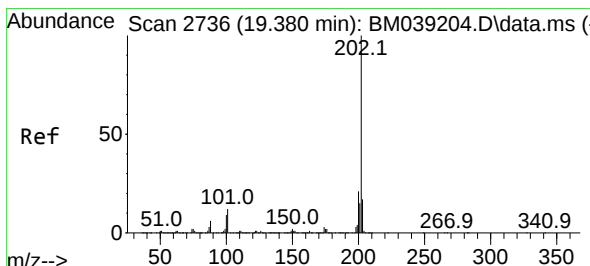
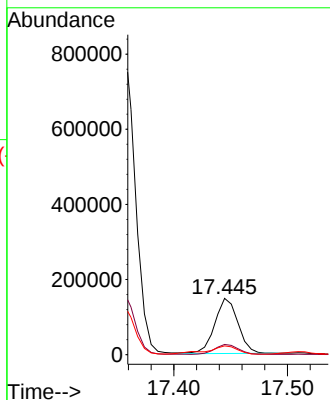
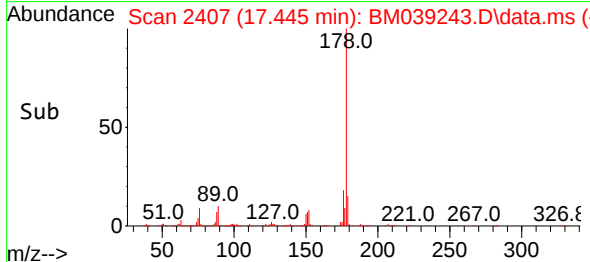
Instrument :
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Tgt Ion:178 Resp: 209123
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.9 22.3
 179 15.4 12.2 18.2

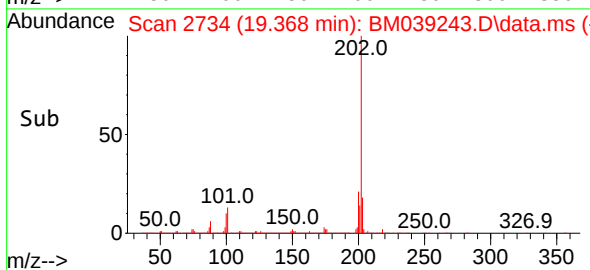
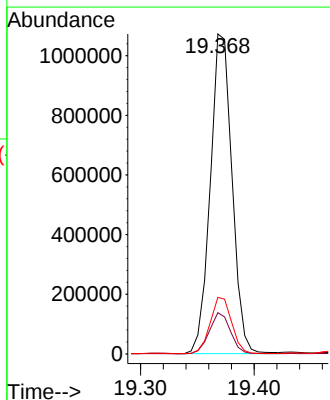
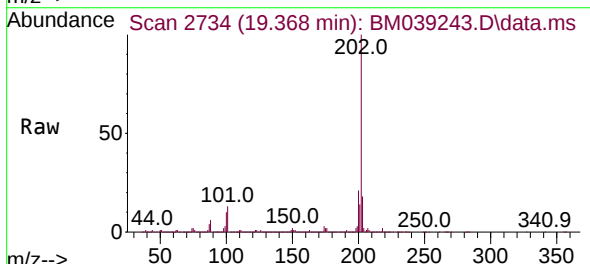
Manual Integrations
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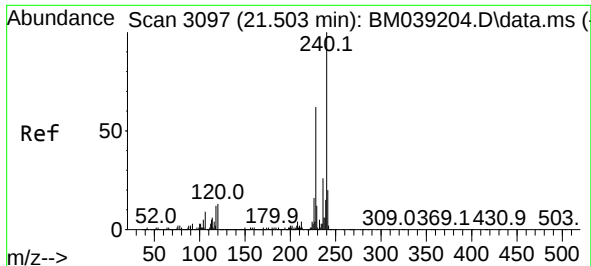
Reviewed By :Christian Giraldo 03/31/2023
 Supervised By :Jagrut Upadhyay 03/31/2023



#75
 Fluoranthene
 Concen: 19.906 ng
 RT: 19.368 min Scan# 2734
 Delta R.T. -0.012 min
 Lab File: BM039243.D
 Acq: 31 Mar 2023 01:14

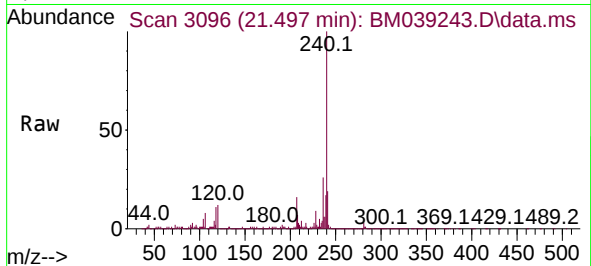
Tgt Ion:202 Resp: 1427428
 Ion Ratio Lower Upper
 202 100
 101 12.9 0.0 32.5
 203 17.7 0.0 37.5





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.497 min Scan# 3097
Delta R.T. -0.006 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

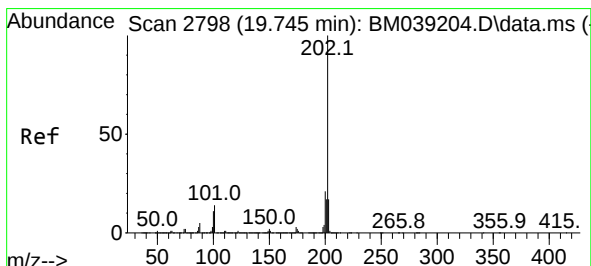
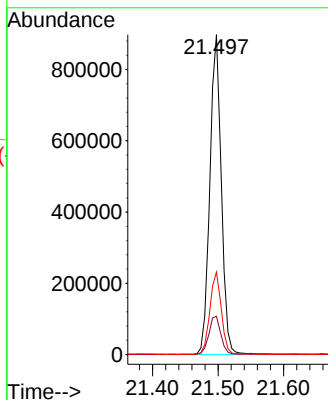
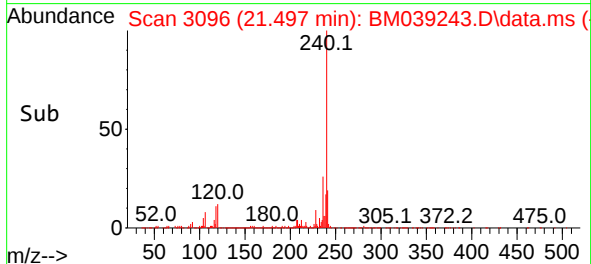
Instrument :
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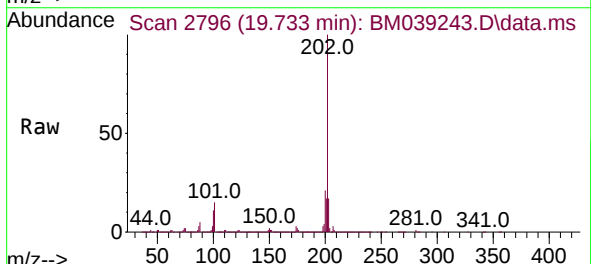
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Ion Ratio Lower Upper
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120 12.0 10.2 15.2
236 25.8 20.9 31.3

Manual Integrations
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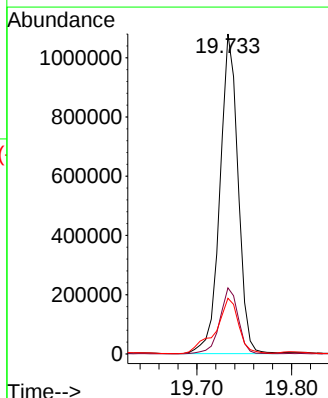
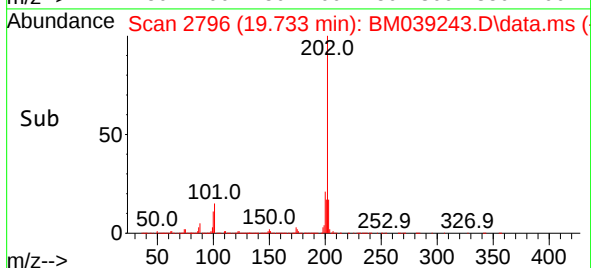
Reviewed By :Christian Giraldo 03/31/2023
Supervised By :Jagrut Upadhyay 03/31/2023

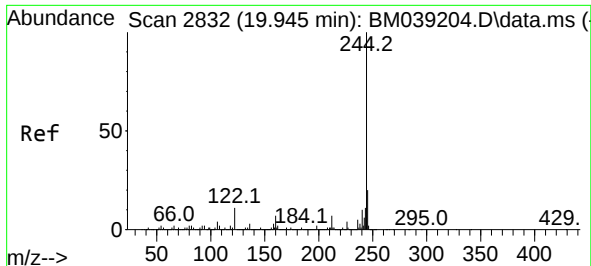


#78
Pyrene
Concen: 18.557 ng
RT: 19.733 min Scan# 2796
Delta R.T. -0.012 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14



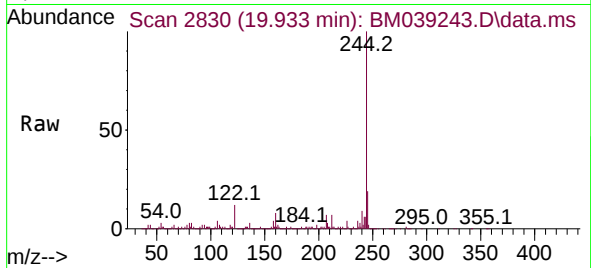
Tgt Ion:202 Resp: 1434530
Ion Ratio Lower Upper
202 100
200 20.6 17.1 25.7
203 17.4 13.9 20.9





#79
 Terphenyl-d14
 Concen: 10.943 ng
 RT: 19.933 min Scan# 2832
 Delta R.T. -0.012 min
 Lab File: BM039243.D
 Acq: 31 Mar 2023 01:14

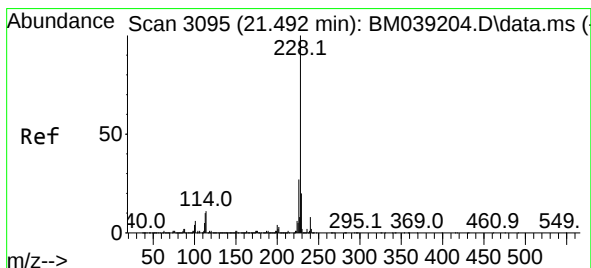
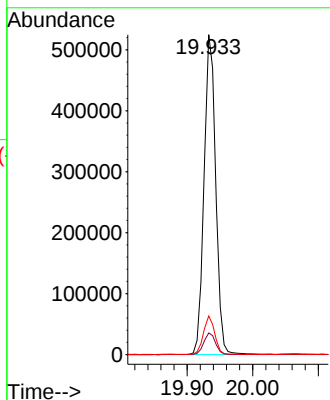
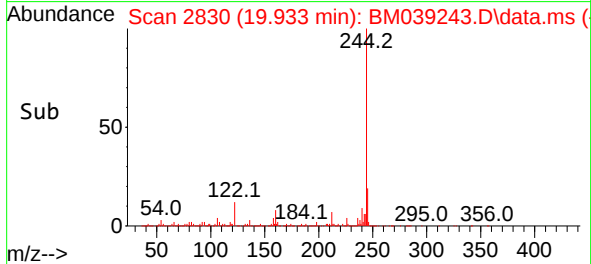
Instrument :
 BNA_M
 ClientSampleId :
 WV-SOIL1-0327



Tgt Ion:244 Resp: 643163
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.6 8.4
 122 12.1 9.1 13.7

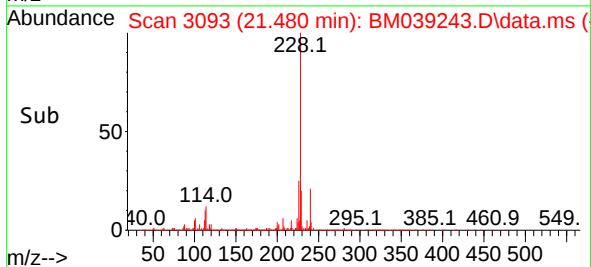
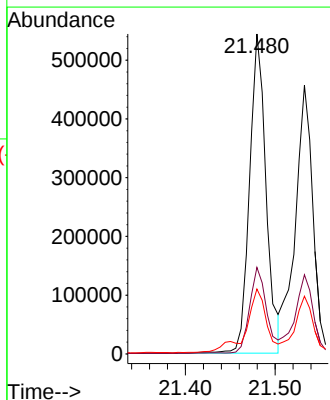
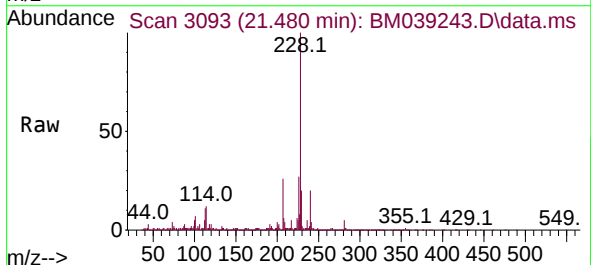
Manual Integrations
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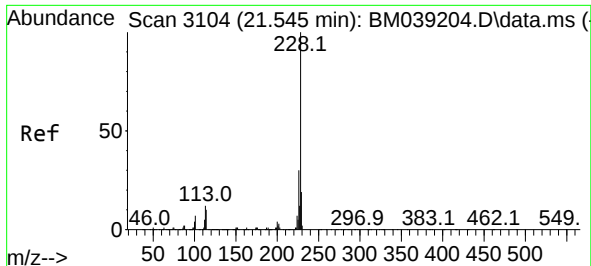
Reviewed By :Christian Giraldo 03/31/2023
 Supervised By :Jagrut Upadhyay 03/31/2023



#81
 Benzo(a)anthracene
 Concen: 9.074 ng
 RT: 21.480 min Scan# 3093
 Delta R.T. -0.012 min
 Lab File: BM039243.D
 Acq: 31 Mar 2023 01:14

Tgt Ion:228 Resp: 694913
 Ion Ratio Lower Upper
 228 100
 226 27.0 21.9 32.9
 229 20.3 15.8 23.6





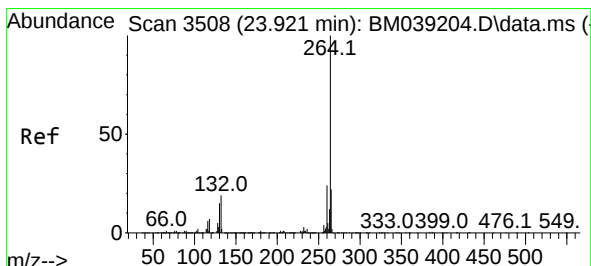
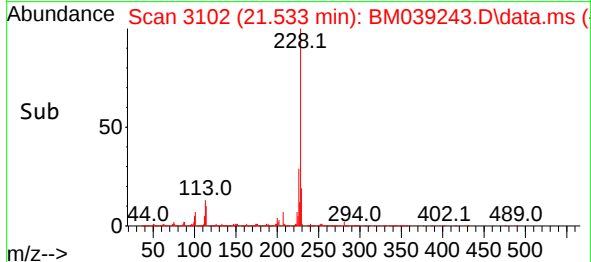
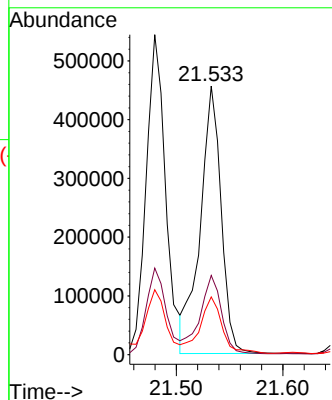
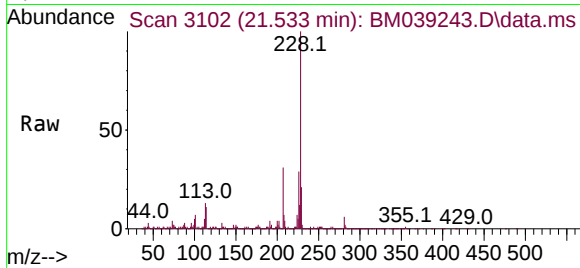
#83
Chrysene
Concen: 8.408 ng
RT: 21.533 min Scan# 3104
Delta R.T. -0.012 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

Instrument :
BNA_M
ClientSampleId :
WV-SOIL1-0327

Tgt Ion:228 Resp: 621630
Ion Ratio Lower Upper
228 100
226 29.5 24.1 36.1
229 21.5 15.5 23.3

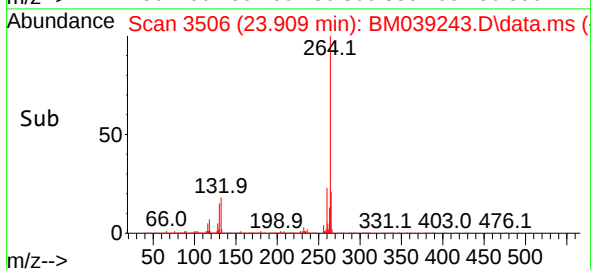
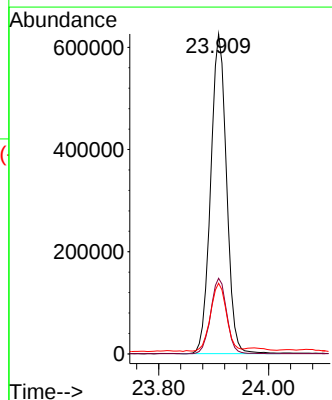
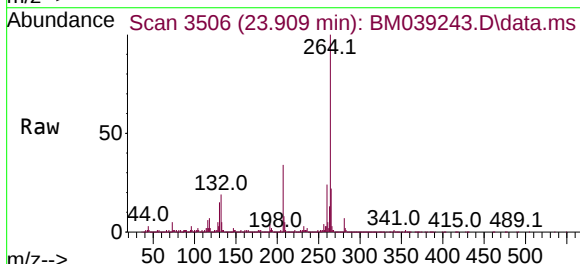
Manual Integrations
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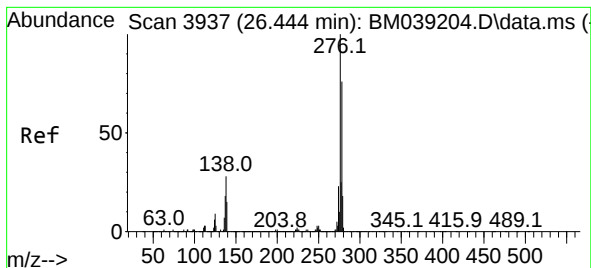
Reviewed By :Christian Giraldo 03/31/2023
Supervised By :Jagrut Upadhyay 03/31/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.909 min Scan# 3506
Delta R.T. -0.012 min
Lab File: BM039243.D
Acq: 31 Mar 2023 01:14

Tgt Ion:264 Resp: 1248542
Ion Ratio Lower Upper
264 100
260 23.6 19.0 28.6
265 22.1 18.1 27.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.399 ng

RT: 26.409 min Scan# 3937

Delta R.T. -0.035 min

Lab File: BM039243.D

Acq: 31 Mar 2023 01:14

Instrument :

BNA_M

ClientSampleId :

WV-SOIL1-0327

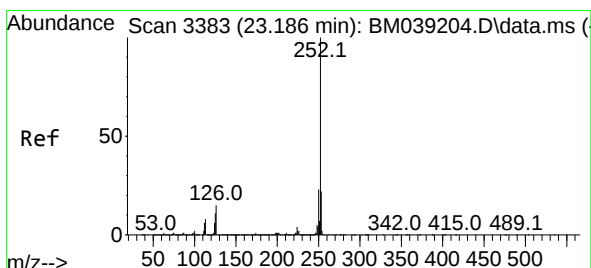
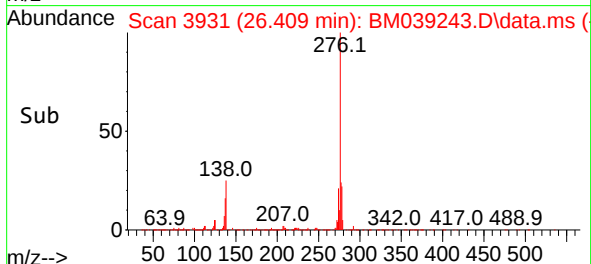
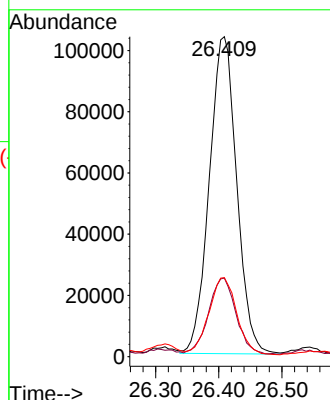
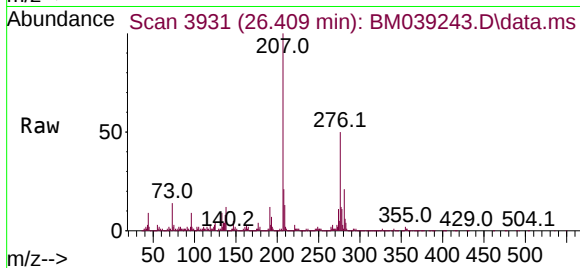
Tgt Ion:	276	Resp:	312679
Ion Ratio	Lower	Upper	
276	100		
138	23.9	22.2	33.2
277	24.9	20.2	30.2

Manual Integrations

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Reviewed By :Christian Giraldo 03/31/2023

Supervised By :Jagrut Upadhyay 03/31/2023



#88

Benzo(b)fluoranthene

Concen: 9.257 ng

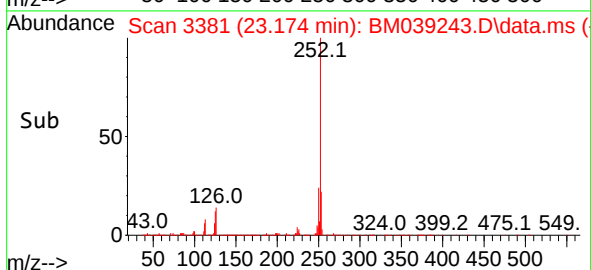
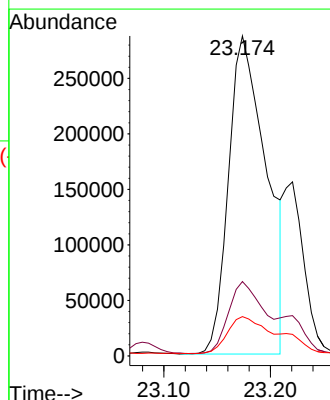
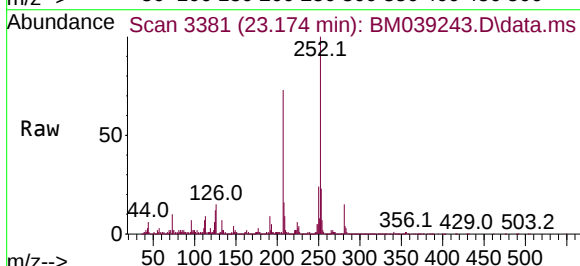
RT: 23.174 min Scan# 3381

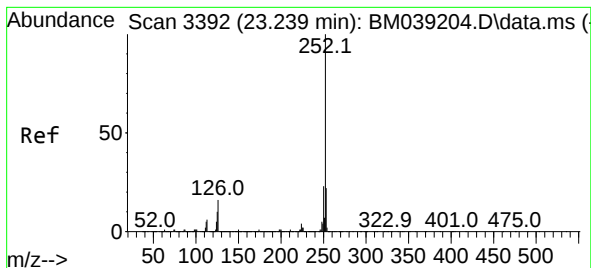
Delta R.T. -0.012 min

Lab File: BM039243.D

Acq: 31 Mar 2023 01:14

Tgt Ion:	252	Resp:	707223
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.6	26.4
125	12.3	9.0	13.6





#89

Benzo(k)fluoranthene

Concen: 2.571 ng m

RT: 23.221 min Scan# 3392

Delta R.T. -0.018 min

Lab File: BM039243.D

Acq: 31 Mar 2023 01:14

Instrument :

BNA_M

ClientSampleId :

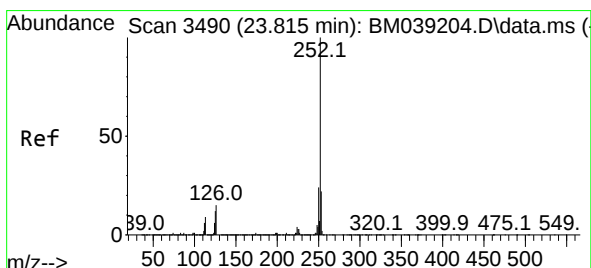
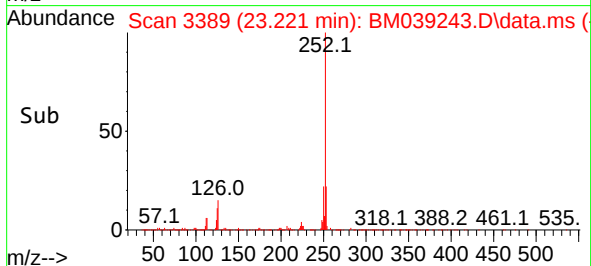
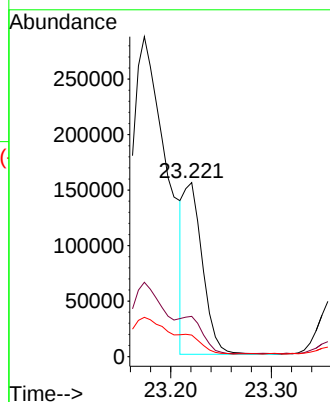
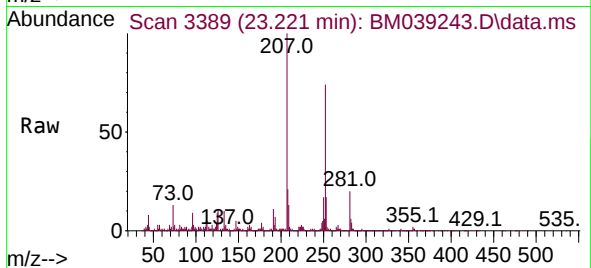
WV-SOIL1-0327

Tgt Ion:	252	Resp:	200028
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.8	26.8
125	12.4	8.5	12.7

Manual Integrations

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Reviewed By :Christian Giraldo 03/31/2023
Supervised By :Jagrut Upadhyay 03/31/2023



#90

Benzo(a)pyrene

Concen: 7.132 ng

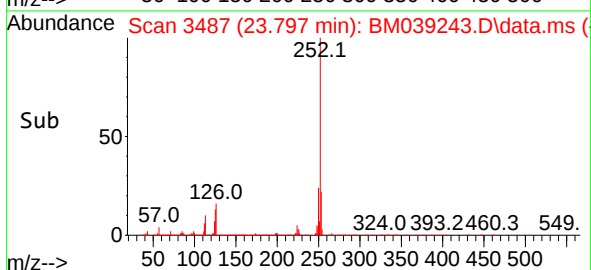
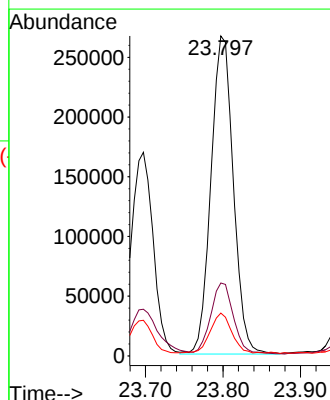
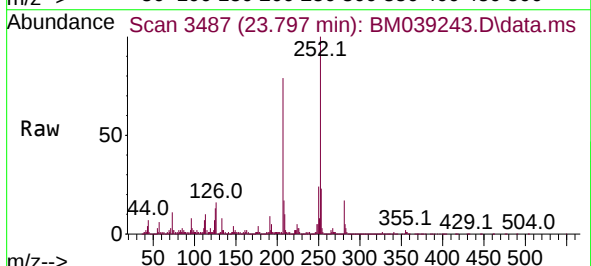
RT: 23.797 min Scan# 3487

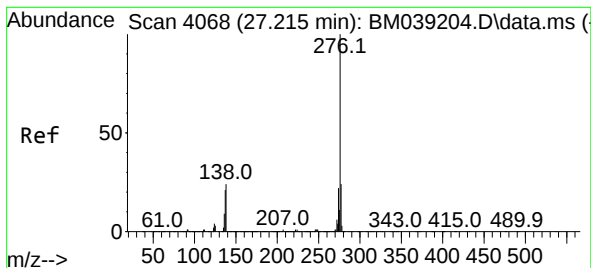
Delta R.T. -0.018 min

Lab File: BM039243.D

Acq: 31 Mar 2023 01:14

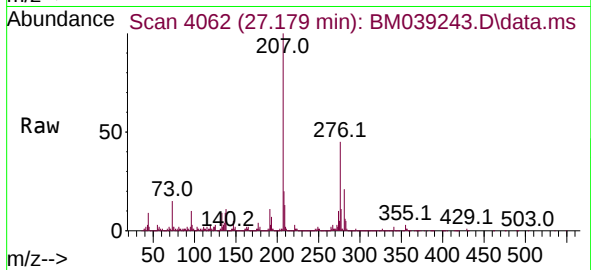
Tgt Ion:	252	Resp:	535241
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.6	26.4
125	13.4	9.8	14.6





#92
 Benzo(g,h,i)perylene
 Concen: 4.097 ng
 RT: 27.179 min Scan# 4062
 Delta R.T. -0.035 min
 Lab File: BM039243.D
 Acq: 31 Mar 2023 01:14

Instrument :
 BNA_M
 ClientSampleId :
 WV-SOIL1-0327



Tgt Ion:	276	Resp:	311193
Ion Ratio	Lower	Upper	
276	100		
277	24.9	19.1	28.7
138	25.0	19.5	29.3

Manual Integrations
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Reviewed By :Christian Giraldo 03/31/2023
 Supervised By :Jagrut Upadhyay 03/31/2023

