

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080323\
 Data File : BM041259.D
 Acq On : 03 Aug 2023 13:07
 Operator : MA/JU
 Sample : 03795-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 TOPSOIL-OU3-DENALI-TEMP

Quant Time: Aug 04 01:17:50 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 02 19:20:51 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/04/2023
 Supervised By :mohammad ahmed 08/04/2023

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08/04/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.793	152	185632	20.000	ng	0.00
21) Naphthalene-d8	10.604	136	790499	20.000	ng	0.00
39) Acenaphthene-d10	14.463	164	502632	20.000	ng	0.00
64) Phenanthrene-d10	17.221	188	1014410	20.000	ng	0.00
76) Chrysene-d12	21.427	240	710415	20.000	ng	0.00
86) Perylene-d12	23.803	264	758320	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	994877	80.101	ng	0.00
7) Phenol-d6	6.981	99	1333693	82.840	ng	0.00
23) Nitrobenzene-d5	8.969	82	858181	50.486	ng	0.00
42) 2,4,6-Tribromophenol	15.963	330	609856	85.781	ng	0.00
45) 2-Fluorobiphenyl	13.081	172	2037574	51.210	ng	0.00
79) Terphenyl-d14	19.862	244	2719005	69.200	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	14.181	152	200353	4.080	ng	99
71) Phenanthrene	17.263	178	238390	4.230	ng	99
72) Anthracene	17.357	178	175658	3.151	ng	100
75) Fluoranthene	19.292	202	870008	13.740	ng	99
78) Pyrene	19.657	202	873413	17.581	ng	100
81) Benzo(a)anthracene	21.415	228	504010	10.465	ng	95
83) Chrysene	21.462	228	485066	10.413	ng	97
84) Bis(2-ethylhexyl)phtha...	21.333	149	9854	2.863	ng	# 84
87) Indeno(1,2,3-cd)pyrene	26.250	276	381572	6.844	ng	# 93
88) Benzo(b)fluoranthene	23.086	252	775451	17.214	ng	98
89) Benzo(k)fluoranthene	23.127	252	219473m	4.763	ng	
90) Benzo(a)pyrene	23.698	252	525991	12.152	ng	97
91) Dibenzo(a,h)anthracene	26.256	278	106265	2.285	ng	# 87
92) Benzo(g,h,i)perylene	27.009	276	379393	8.338	ng	97

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

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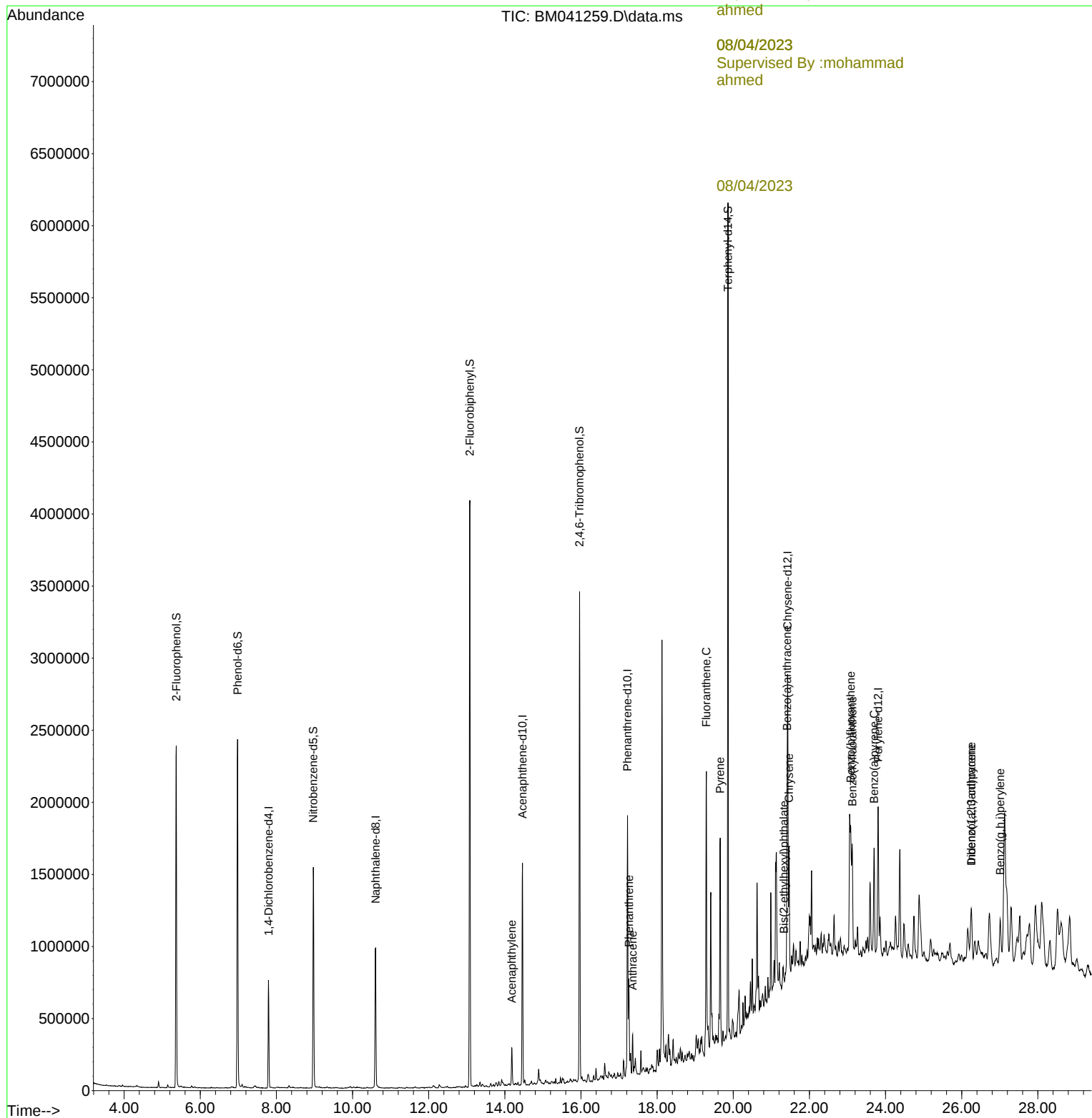
Quant Time: Aug 04 01:17:50 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
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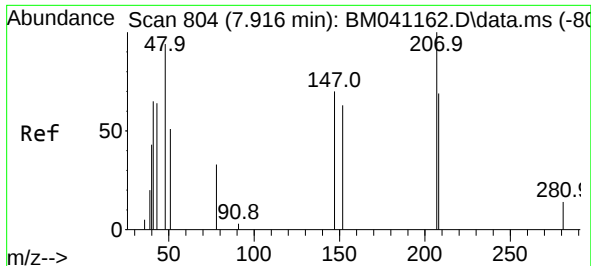
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ahmed

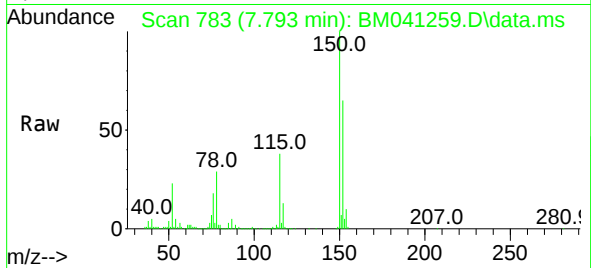
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.793 min Scan# 71
Delta R.T. -0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP



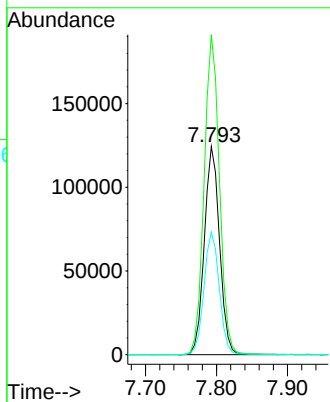
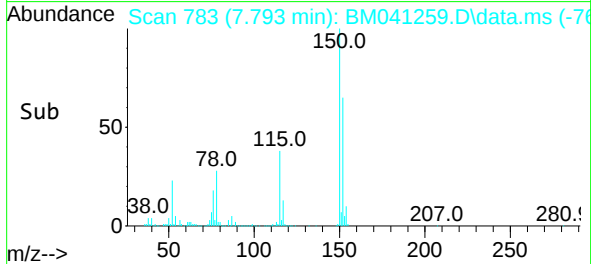
Tgt Ion:152 Resp: 18563
Ion Ratio Lower Upper
152 100
150 153.7 125.5 188.3
115 58.8 48.0 72.0

Manual Integrations
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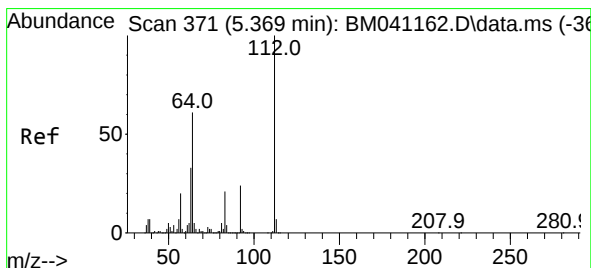
Reviewed By :Yogesh Patel 08/04/2023
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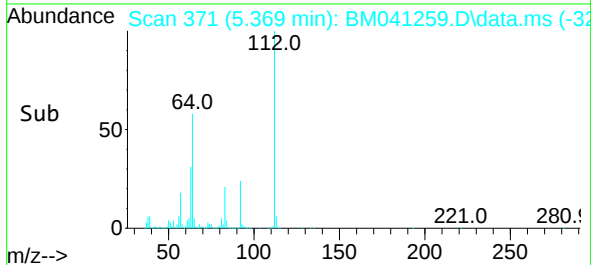
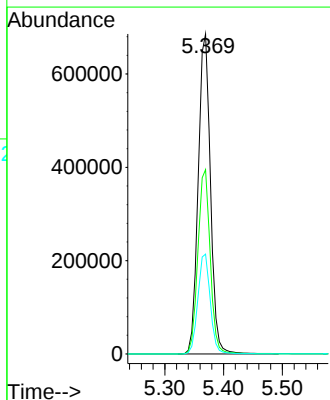
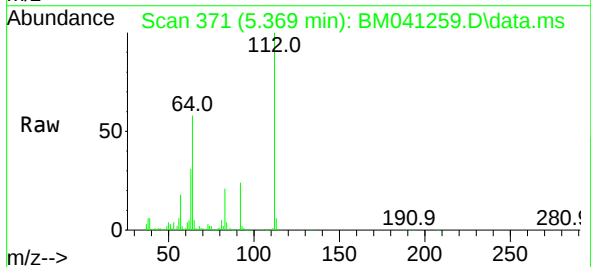


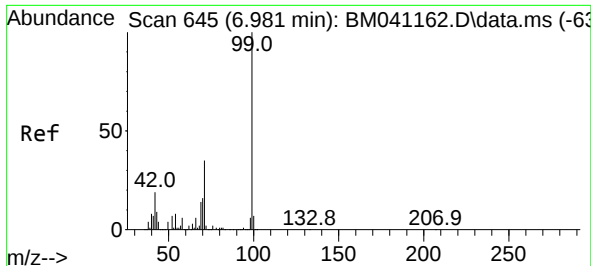
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#5
2-Fluorophenol
Concen: 80.101 ng
RT: 5.369 min Scan# 371
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

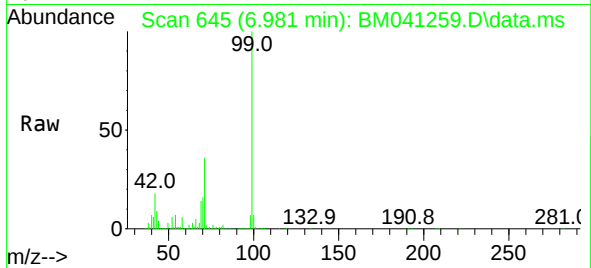
Tgt Ion:112 Resp: 994877
Ion Ratio Lower Upper
112 100
64 57.6 48.5 72.7
63 31.2 26.5 39.7





#7
Phenol-d6
Concen: 82.840 ng
RT: 6.981 min Scan# 645
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

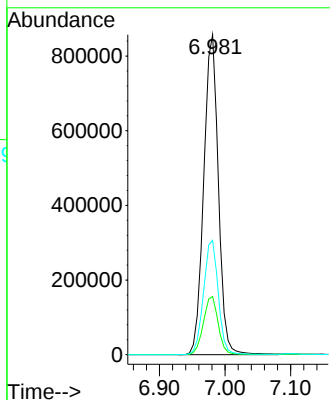
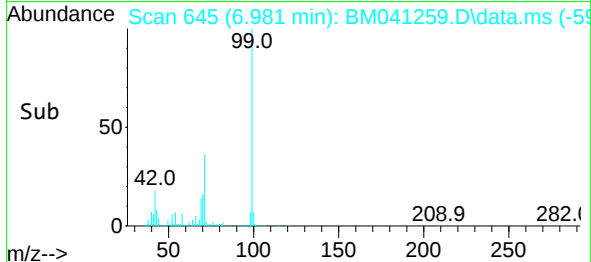
Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP



Tgt Ion: 99 Resp: 133369
Ion Ratio Lower Upper
99 100
42 18.2 15.4 23.0
71 35.7 28.2 42.4

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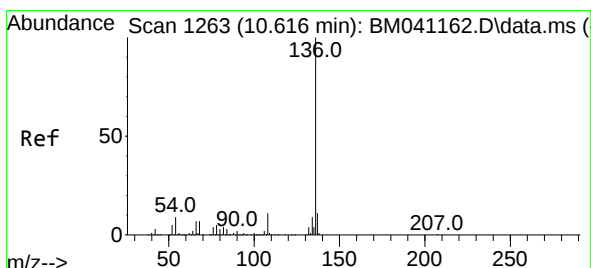
Reviewed By :Yogesh Patel 08/04/2023
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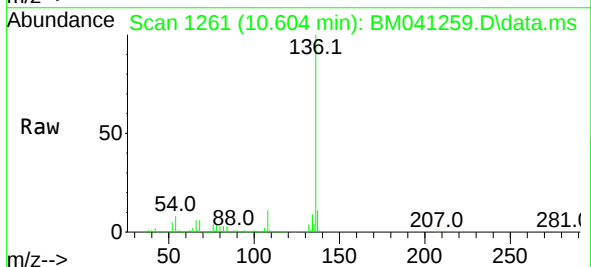
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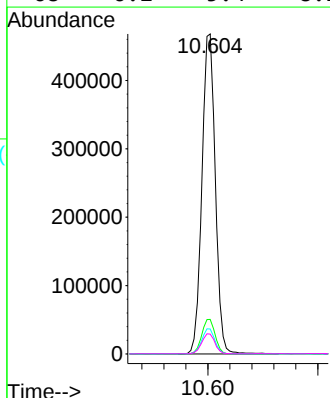
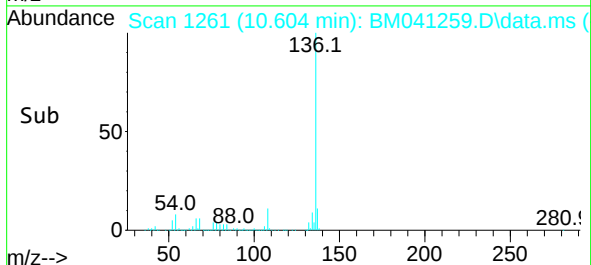
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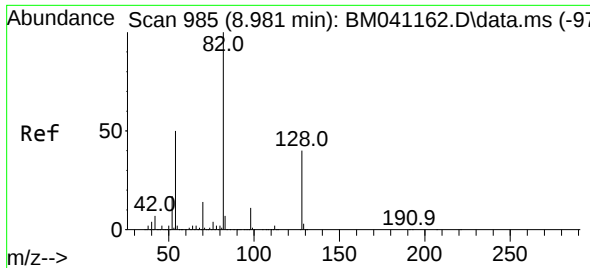


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.604 min Scan# 1261
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07



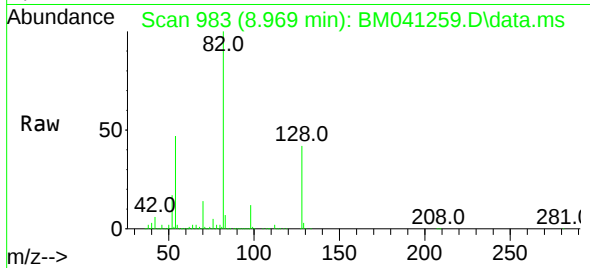
Tgt Ion:136 Resp: 790499
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 7.8 6.9 10.3
68 6.2 5.4 8.2





#23
Nitrobenzene-d5
Concen: 50.486 ng
RT: 8.969 min Scan# 91
Delta R.T. -0.006 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

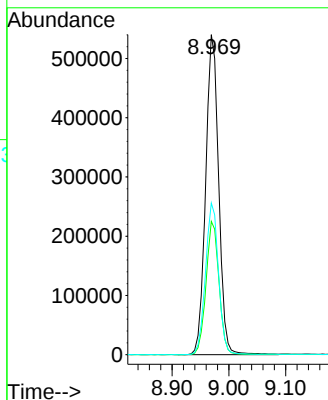
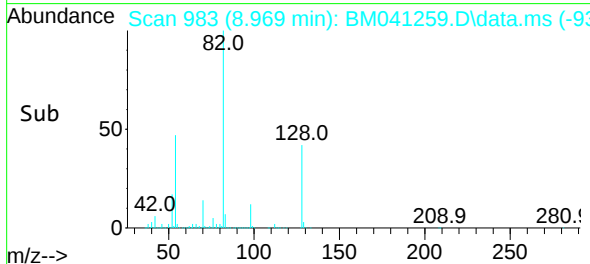
Instrument :
BNA_M
ClientSampleId :
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Tgt Ion: 82 Resp: 85818
Ion Ratio Lower Upper
82 100
128 41.6 31.8 47.6
54 47.4 40.1 60.1

Manual Integrations
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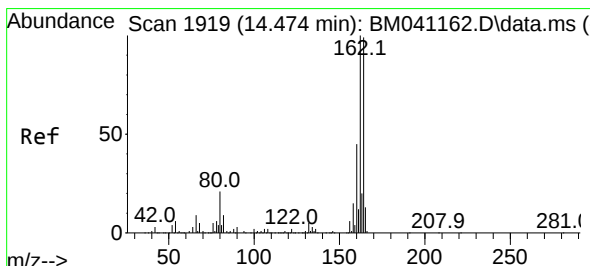
Reviewed By :Yogesh Patel 08/04/2023
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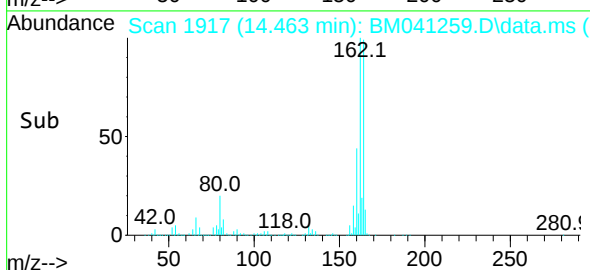
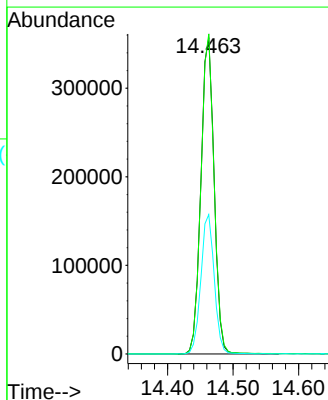
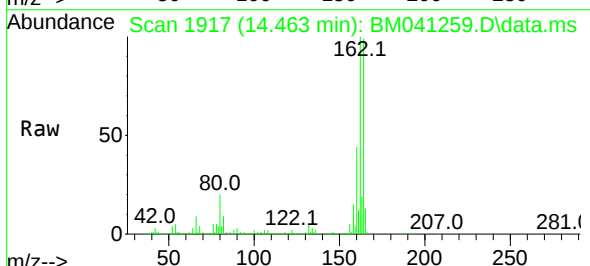
08/04/2023
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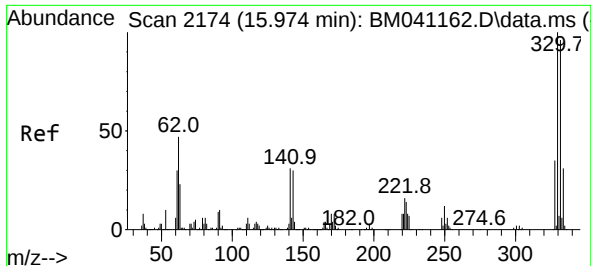
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.463 min Scan# 1917
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

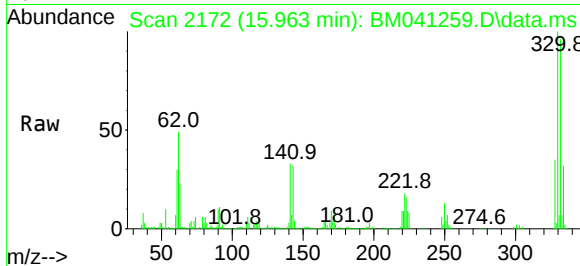
Tgt Ion:164 Resp: 502632
Ion Ratio Lower Upper
164 100
162 101.2 80.4 120.6
160 44.1 36.2 54.2





#42
2,4,6-Tribromophenol
Concen: 85.781 ng
RT: 15.963 min Scan# 2174
Delta R.T. -0.006 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP



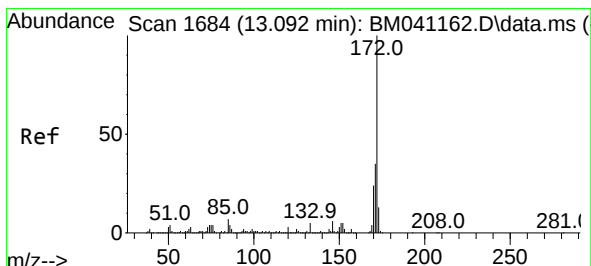
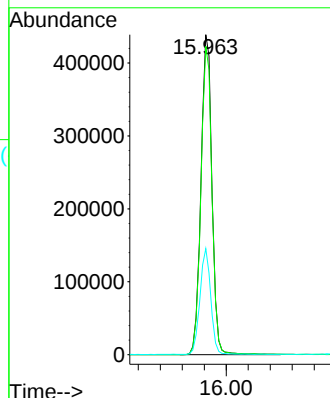
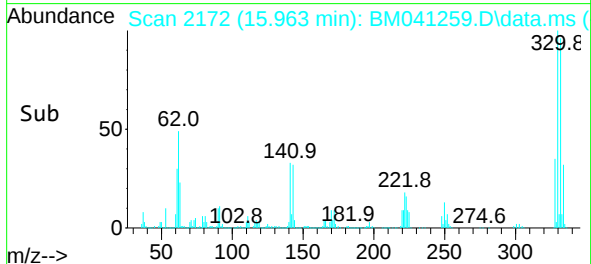
Tgt Ion: 330 Resp: 609850
Ion Ratio Lower Upper
330 100
332 96.9 77.7 116.5
141 32.4 28.3 42.5

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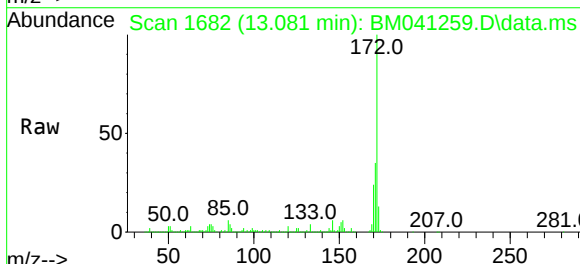
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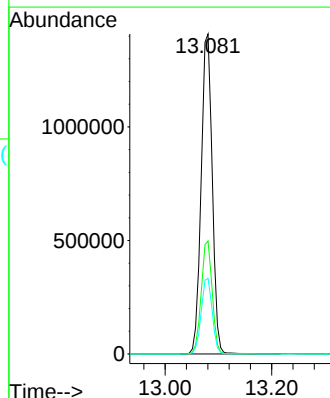
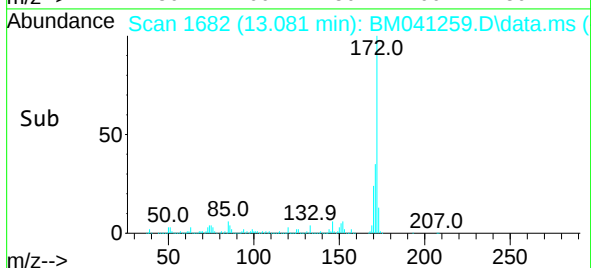
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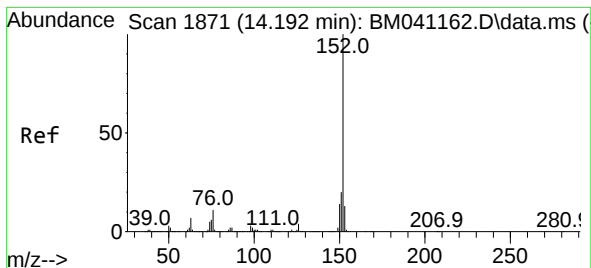


#45
2-Fluorobiphenyl
Concen: 51.210 ng
RT: 13.081 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07



Tgt Ion: 172 Resp: 2037574
Ion Ratio Lower Upper
172 100
171 35.3 28.1 42.1
170 23.6 18.9 28.3





#49

Acenaphthylene

Concen: 4.080 ng

RT: 14.181 min Scan# 1869

Delta R.T. -0.006 min

Lab File: BM041259.D

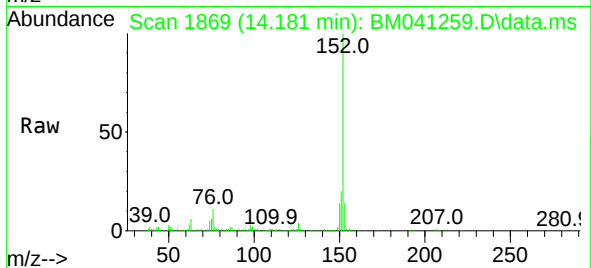
Acq: 03 Aug 2023 13:07

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP



Tgt Ion:152 Resp: 20035

Ion Ratio Lower Upper

152 100

151 19.8 16.1 24.1

153 13.6 10.5 15.7

Manual Integrations

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Reviewed By :Yogesh Patel 08/04/2023

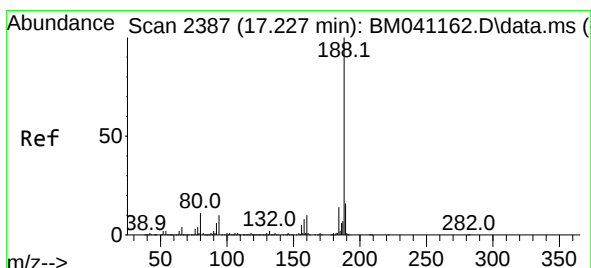
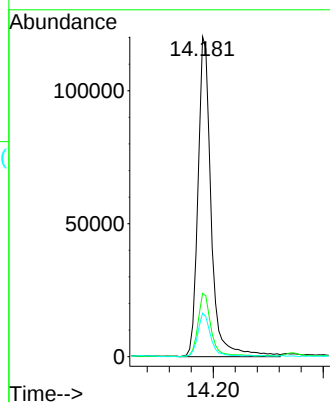
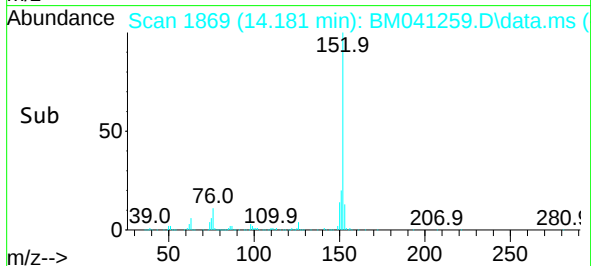
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ahmed

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Supervised By :mohammad
ahmed



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.221 min Scan# 2386

Delta R.T. 0.000 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

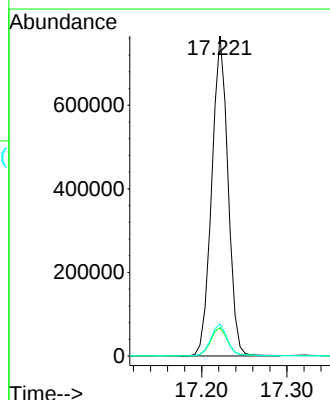
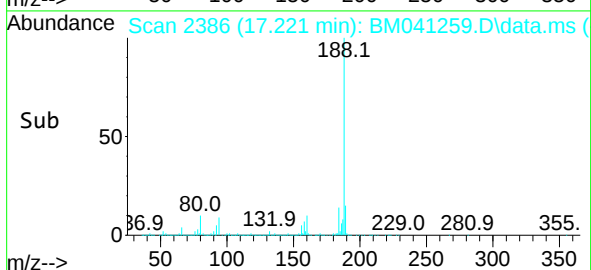
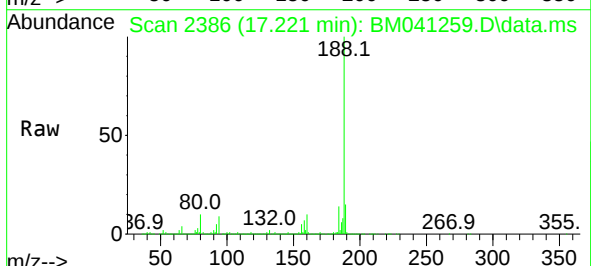
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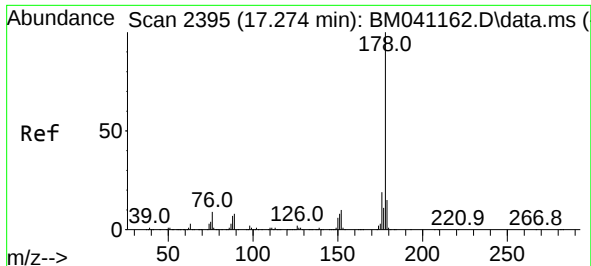
Ion Ratio Lower Upper

188 100

94 8.8 8.2 12.2

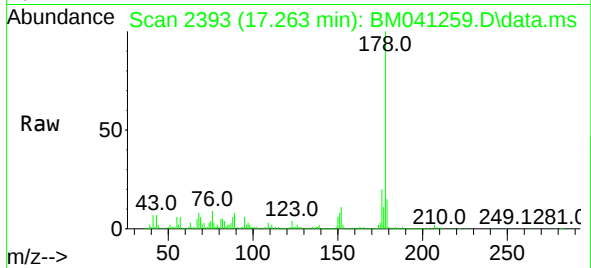
80 10.0 8.6 13.0





#71
Phenanthrene
Concen: 4.230 ng
RT: 17.263 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

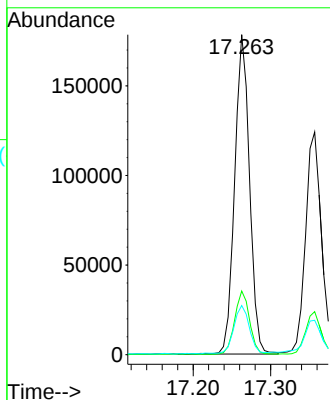
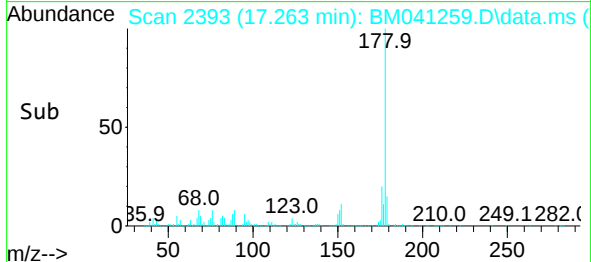
Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP



Tgt Ion:178 Resp: 238390
Ion Ratio Lower Upper
178 100
176 19.9 15.6 23.4
179 15.4 12.1 18.1

Manual Integrations
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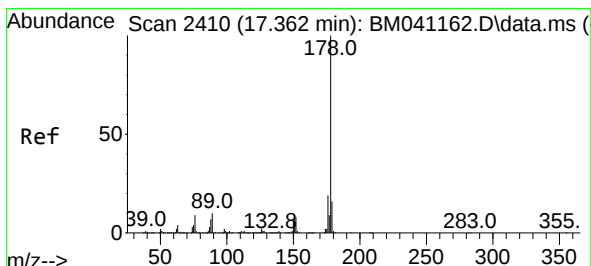
Reviewed By :Yogesh Patel 08/04/2023
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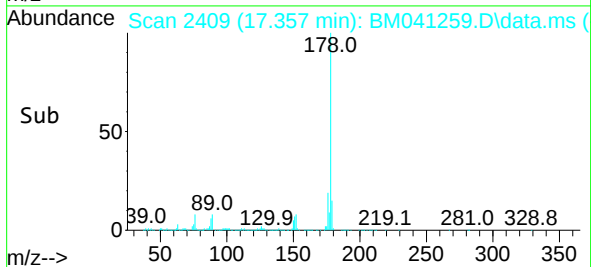
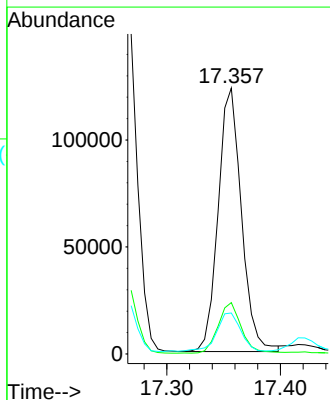
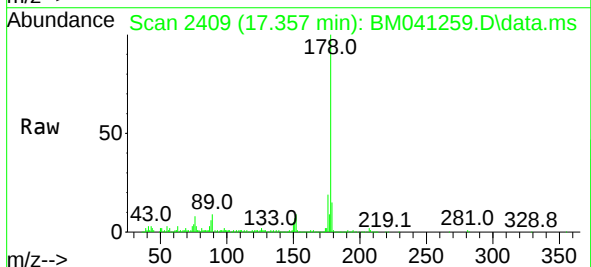
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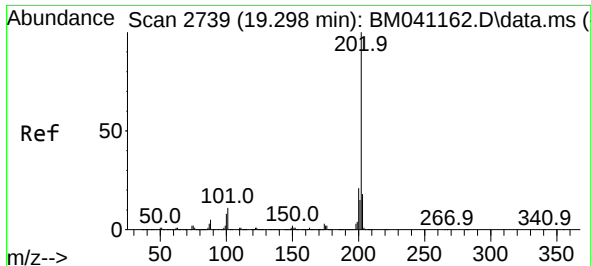
08/04/2023



#72
Anthracene
Concen: 3.151 ng
RT: 17.357 min Scan# 2409
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

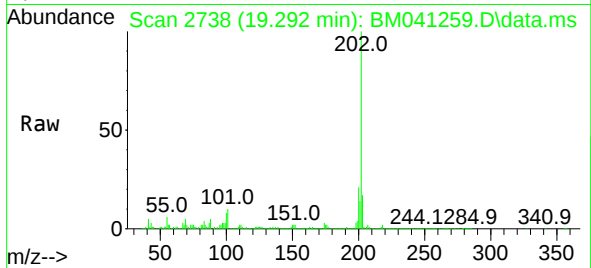
Tgt Ion:178 Resp: 175658
Ion Ratio Lower Upper
178 100
176 19.3 15.2 22.8
179 15.4 12.4 18.6





#75
Fluoranthene
Concen: 13.740 ng
RT: 19.292 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP



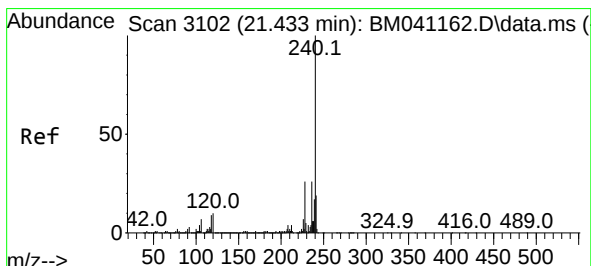
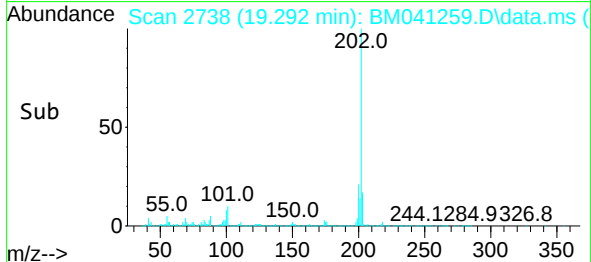
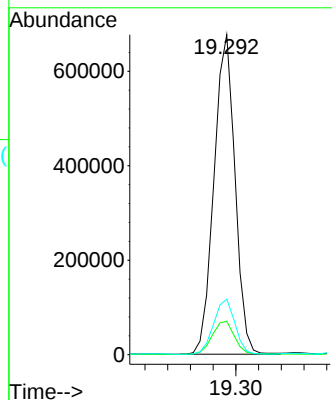
Tgt Ion:202 Resp: 870000
Ion Ratio Lower Upper
202 100
101 10.4 0.0 30.8
203 17.4 0.0 37.6

Manual Integrations
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Reviewed By :Yogesh Patel 08/04/2023
Supervised By :mohammad ahmed 08/04/2023

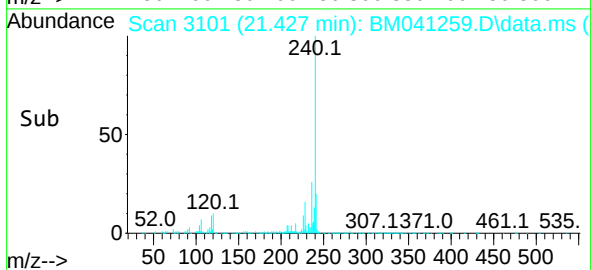
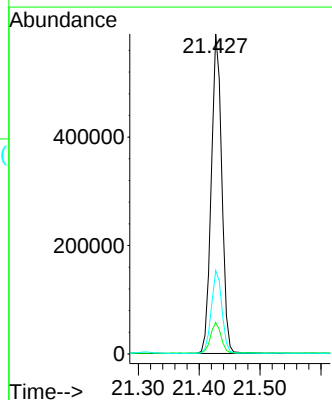
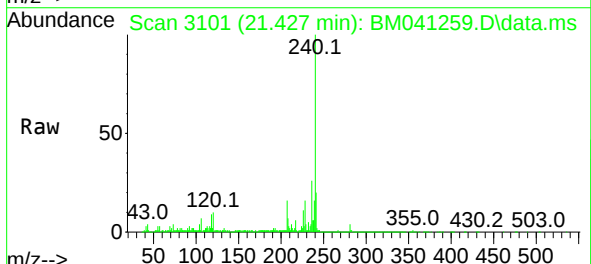
08/04/2023
Supervised By :mohammad
ahmed

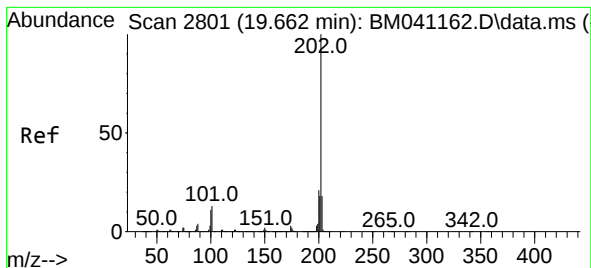
08/04/2023
Supervised By :mohammad
ahmed



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.427 min Scan# 3101
Delta R.T. -0.006 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

Tgt Ion:240 Resp: 710415
Ion Ratio Lower Upper
240 100
120 9.9 8.3 12.5
236 26.1 20.6 30.8





#78

Pyrene

Concen: 17.581 ng

RT: 19.657 min Scan# 2

Delta R.T. 0.000 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP

Tgt Ion:202 Resp: 87341

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.6	14.1	21.1

Manual Integrations

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Reviewed By :Yogesh Patel 08/04/2023

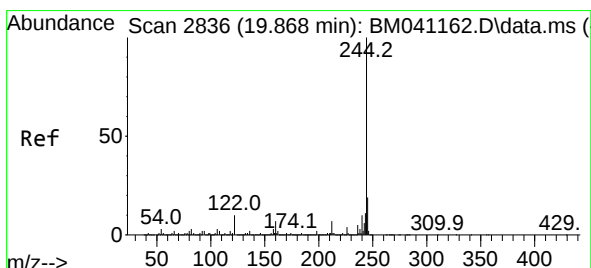
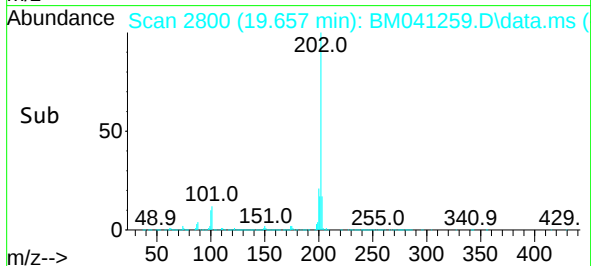
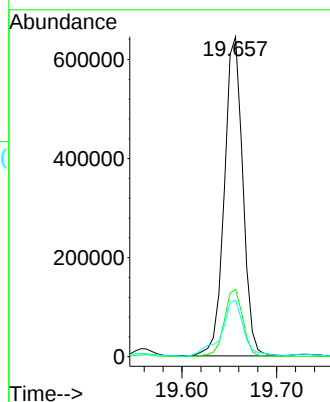
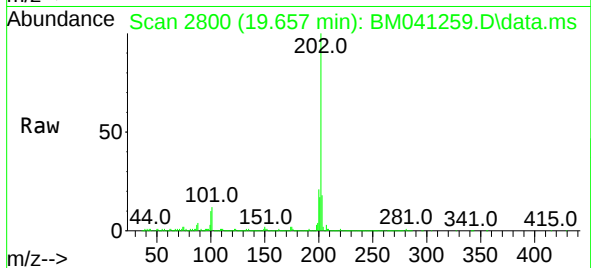
Supervised By :mohammad ahmed 08/04/2023

08/04/2023

Supervised By :mohammad ahmed

08/04/2023

Supervised By :mohammad ahmed



#79

Terphenyl-d14

Concen: 69.200 ng

RT: 19.862 min Scan# 2835

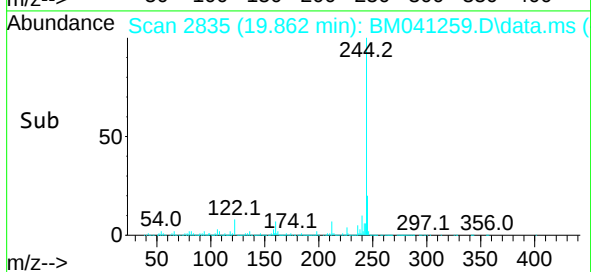
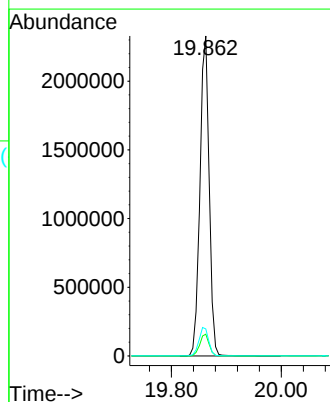
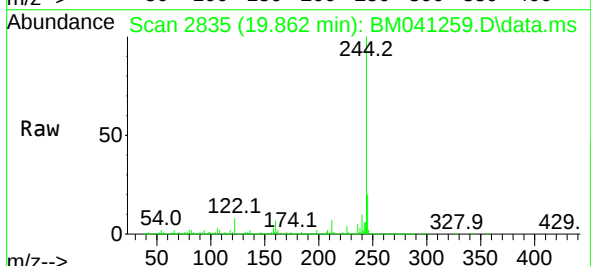
Delta R.T. 0.000 min

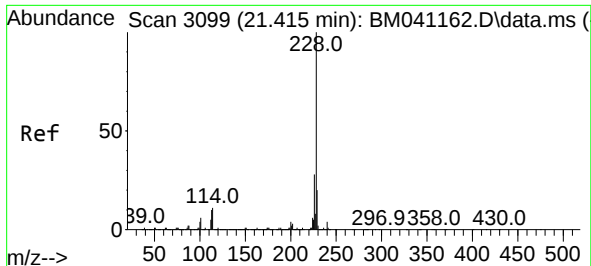
Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

Tgt Ion:244 Resp: 2719005

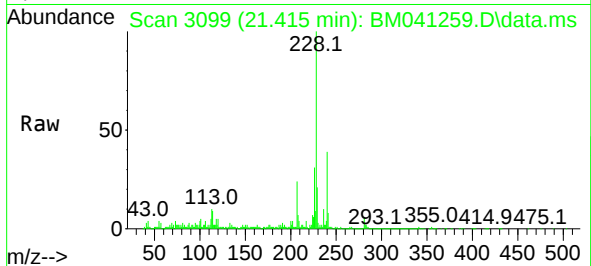
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	8.5	7.8	11.6





#81
Benzo(a)anthracene
Concen: 10.465 ng
RT: 21.415 min Scan# 3099
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP



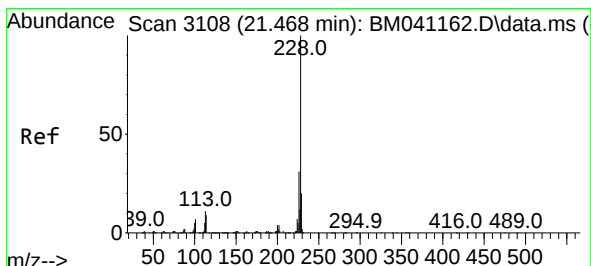
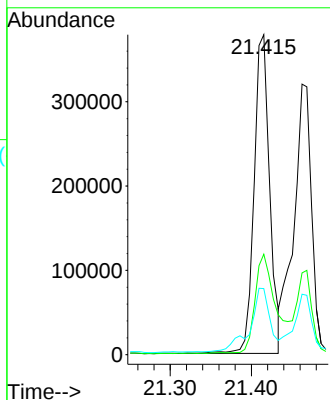
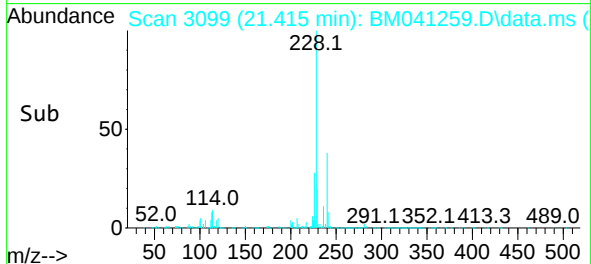
Tgt Ion:228 Resp: 504010
Ion Ratio Lower Upper
228 100
226 31.4 22.4 33.6
229 20.7 15.8 23.8

Manual Integrations
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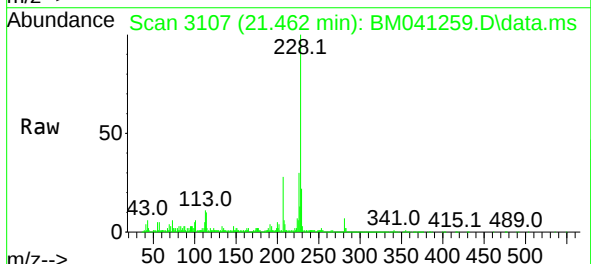
Reviewed By :Yogesh Patel 08/04/2023
Supervised By :mohammad ahmed 08/04/2023

08/04/2023
Supervised By :mohammad
ahmed

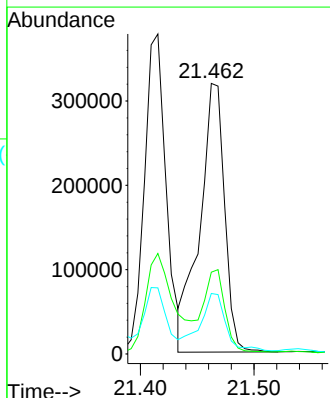
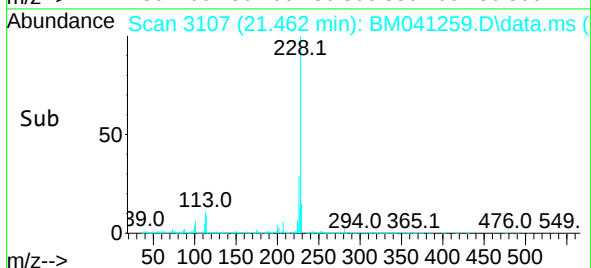
08/04/2023
Supervised By :mohammad
ahmed

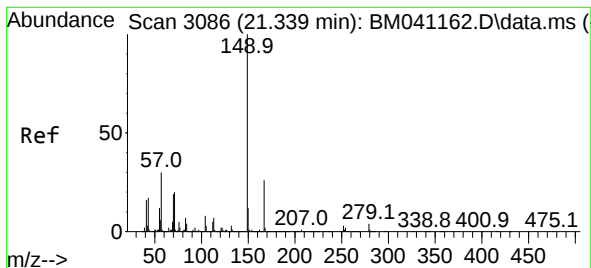


#83
Chrysene
Concen: 10.413 ng
RT: 21.462 min Scan# 3107
Delta R.T. -0.006 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07



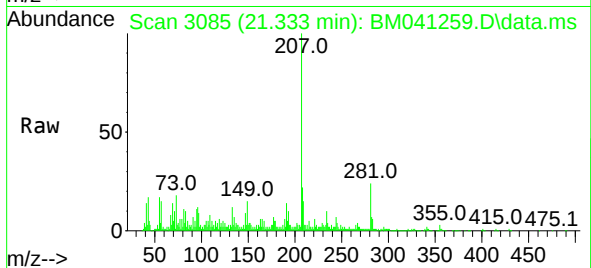
Tgt Ion:228 Resp: 485066
Ion Ratio Lower Upper
228 100
226 30.2 24.5 36.7
229 22.4 15.8 23.8





#84
Bis(2-ethylhexyl)phthalate
Concen: 2.863 ng
RT: 21.333 min Scan# 3085
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

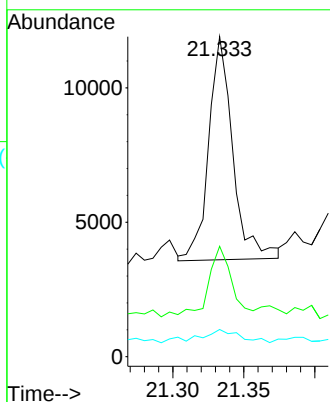
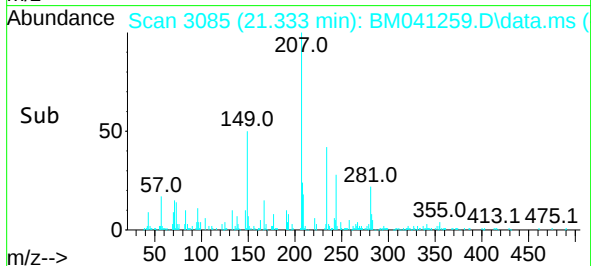
Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP



Tgt Ion:149 Resp: 9854
Ion Ratio Lower Upper
149 100
167 34.5 21.0 31.6
279 8.5 3.1 4.7

Manual Integrations
APPROVED

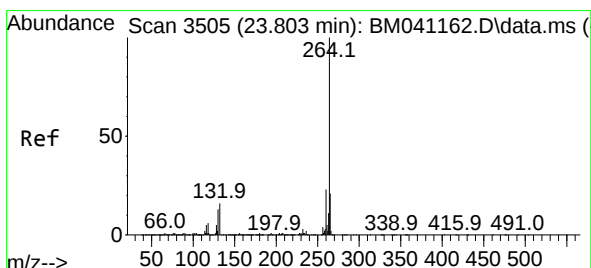
Reviewed By :Yogesh Patel 08/04/2023
Supervised By :mohammad ahmed 08/04/2023



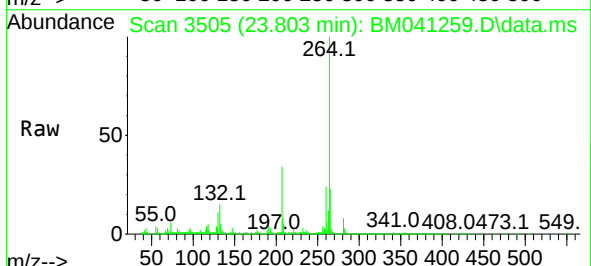
08/04/2023
Supervised By :mohammad
ahmed

08/04/2023
Supervised By :mohammad
ahmed

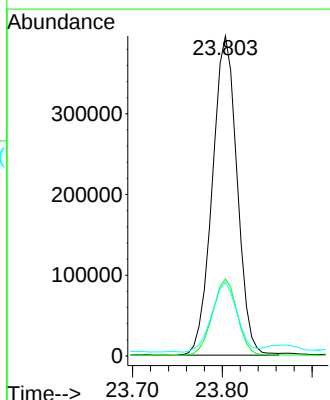
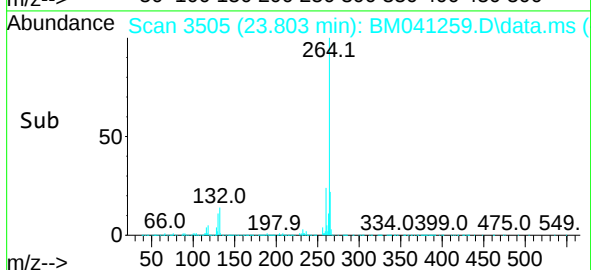
08/04/2023

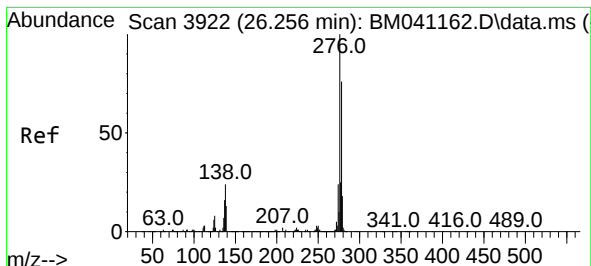


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.803 min Scan# 3505
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07



Tgt Ion:264 Resp: 758320
Ion Ratio Lower Upper
264 100
260 24.0 18.5 27.7
265 23.0 17.4 26.0





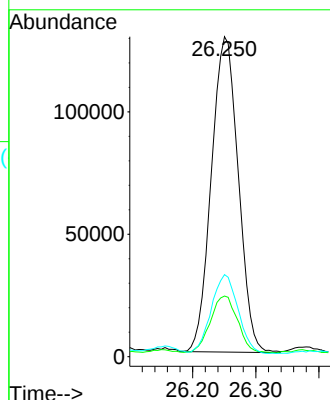
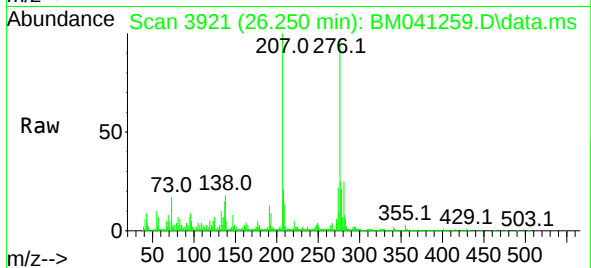
#87
Indeno(1,2,3-cd)pyrene
Concen: 6.844 ng
RT: 26.250 min Scan# 3922
Delta R.T. -0.012 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP

Tgt Ion: 276 Resp: 381572
Ion Ratio Lower Upper
276 100
138 18.4 20.0 30.0
277 24.9 20.1 30.1

Manual Integrations
APPROVED

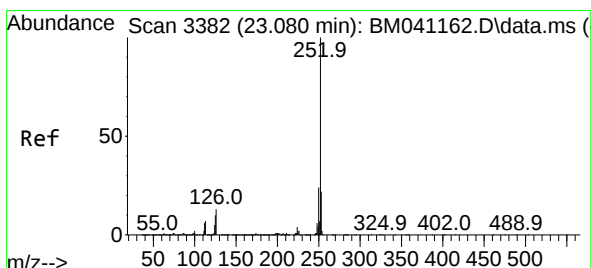
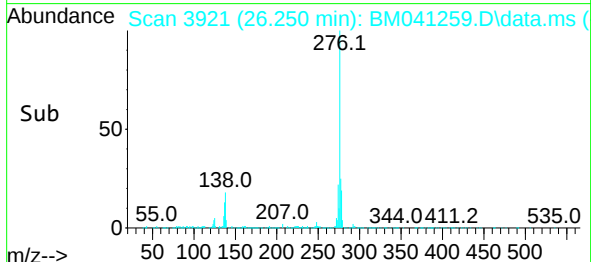
Reviewed By :Yogesh Patel 08/04/2023
Supervised By :mohammad ahmed 08/04/2023



08/04/2023
Supervised By :mohammad
ahmed

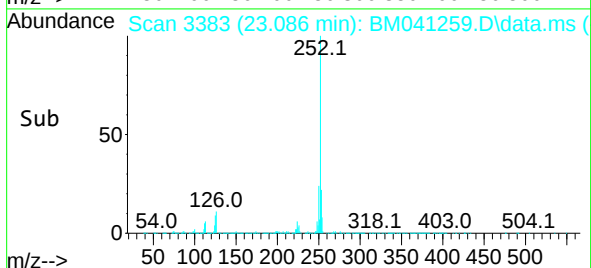
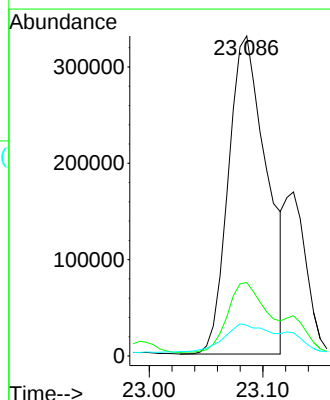
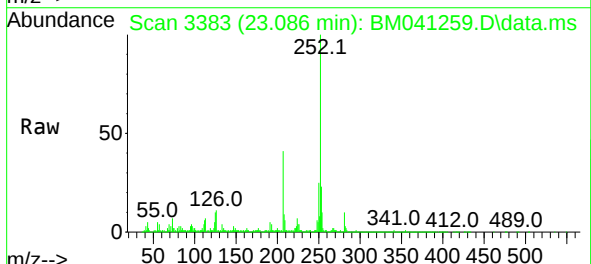
08/04/2023
Supervised By :mohammad
ahmed

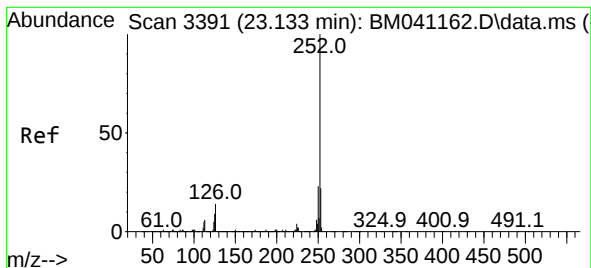
08/04/2023



#88
Benzo(b)fluoranthene
Concen: 17.214 ng
RT: 23.086 min Scan# 3383
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

Tgt Ion: 252 Resp: 775451
Ion Ratio Lower Upper
252 100
253 23.0 17.7 26.5
125 9.6 8.2 12.4





#89

Benzo(k)fluoranthene

Concen: 4.763 ng m

RT: 23.127 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP

Tgt Ion:252 Resp: 21947

Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.4	26.0
125	14.1	7.6	11.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/04/2023

Supervised By :mohammad ahmed 08/04/2023

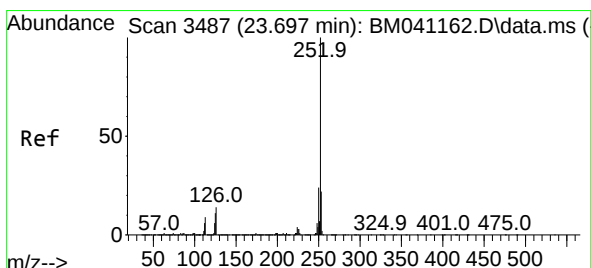
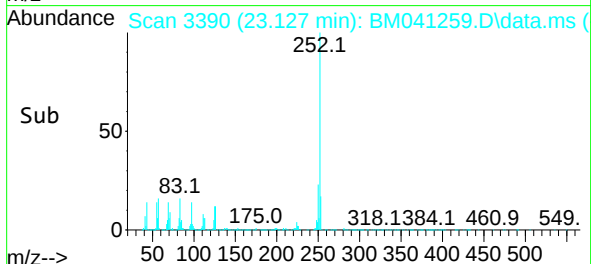
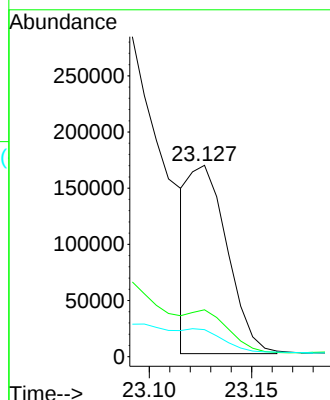
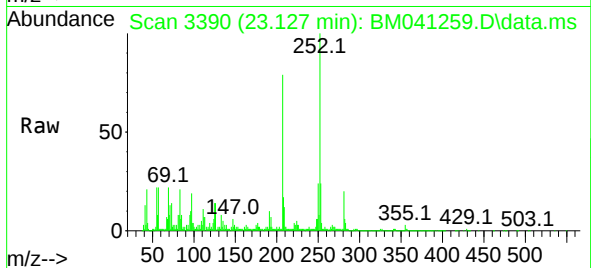
08/04/2023

Supervised By :mohammad ahmed

08/04/2023

Supervised By :mohammad ahmed

08/04/2023



#90

Benzo(a)pyrene

Concen: 12.152 ng

RT: 23.698 min Scan# 3487

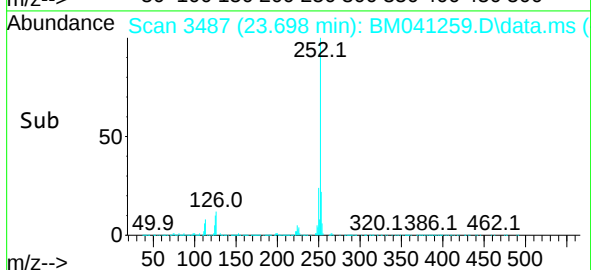
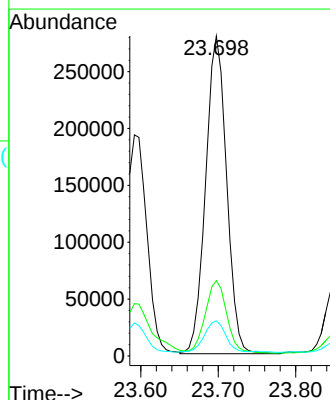
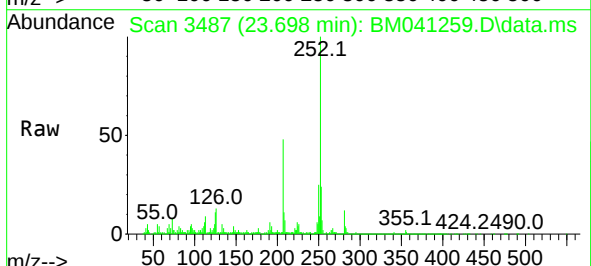
Delta R.T. 0.000 min

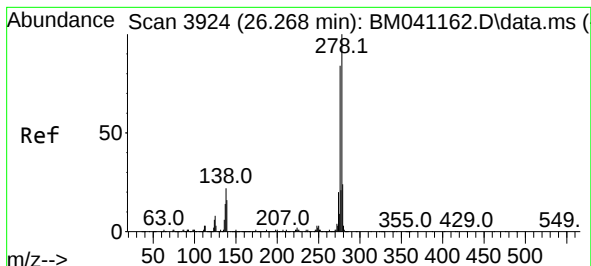
Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

Tgt Ion:252 Resp: 525991

Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.3	25.9
125	11.0	9.0	13.4





#91

Dibenzo(a,h)anthracene

Concen: 2.285 ng

RT: 26.256 min Scan# 3924

Delta R.T. -0.018 min

Lab File: BM041259.D

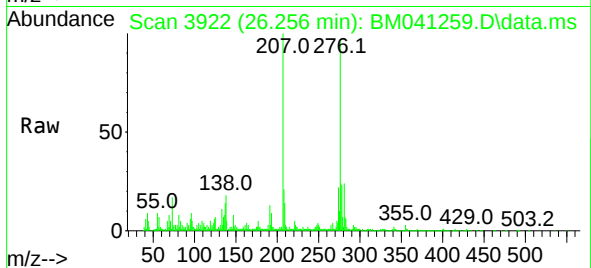
Acq: 03 Aug 2023 13:07

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP



Tgt Ion:278 Resp: 10626

Ion Ratio Lower Upper

278 100

139 21.2 12.7 19.1

279 30.5 19.1 28.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/04/2023

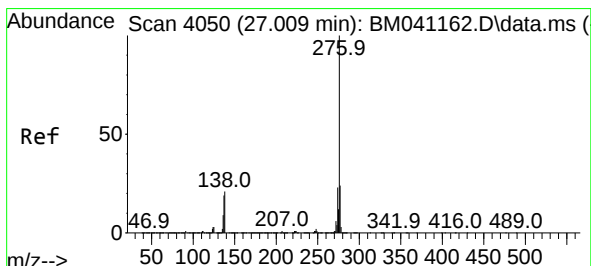
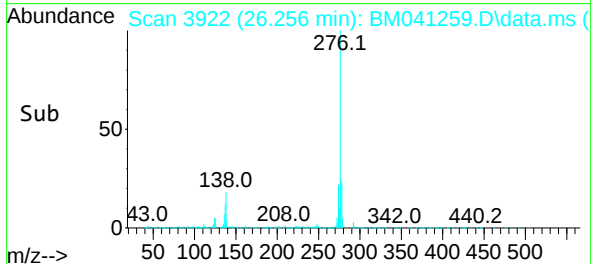
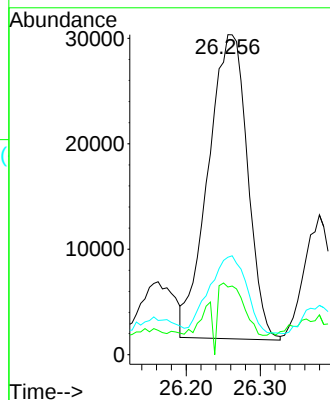
Supervised By :mohammad ahmed 08/04/2023

08/04/2023

Supervised By :mohammad ahmed

08/04/2023

Supervised By :mohammad ahmed



#92

Benzo(g,h,i)perylene

Concen: 8.338 ng

RT: 27.009 min Scan# 4050

Delta R.T. -0.006 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

Tgt Ion:276 Resp: 379393

Ion Ratio Lower Upper

276 100

277 25.0 19.1 28.7

138 19.7 17.1 25.7

