

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032525\
 Data File : BM049756.D
 Acq On : 25 Mar 2025 11:47
 Operator : RC/JU
 Sample : Q1546-03
 Misc : MDL-SOIL-QT1-2025
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-QT1-2025-01

Quant Time: Mar 25 13:00:31 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM030425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 04 13:03:01 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 03/25/2025
 Supervised By :Jagrut Upadhyay 03/25/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.809	152	7897	0.400	ng/ul	0.00
4) Naphthalene-d8	10.601	136	19846	0.400	ng/ul	0.00
9) Acenaphthene-d10	14.442	164	11530	0.400	ng/ul	0.00
13) Phenanthrene-d10	17.183	188	22800	0.400	ng/ul	0.00
17) Chrysene-d12	21.362	240	15625	0.400	ng/ul	0.00
23) Perylene-d12	23.645	264	14278	0.400	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.252	96	4098	0.443	ng/ul	0.00
6) 2-Methylnaphthalene-d10	12.190	152	9693	0.328	ng/ul	0.00
18) Fluoranthene-d10	19.211	212	19963	0.394	ng/ul	0.00
Target Compounds						
2) 1,4-Dioxane	3.290	88	611m	0.062	ng/ul	Qvalue
5) Naphthalene	10.650	128	3611	0.068	ng/ul#	94
7) 2-Methylnaphthalene	12.267	142	2348	0.069	ng/ul	97
8) 1-Methylnaphthalene	12.487	142	2279	0.066	ng/ul	98
10) Acenaphthylene	14.164	152	3342	0.065	ng/ul	95
11) Acenaphthene	14.507	153	2568	0.069	ng/ul	97
12) Fluorene	15.492	166	2906	0.070	ng/ul	99
14) Pentachlorophenol	16.841	266	310	0.064	ng/ul	100
15) Phenanthrene	17.226	178	4557	0.066	ng/ul	97
16) Anthracene	17.319	178	3837	0.062	ng/ul#	92
19) Fluoranthene	19.239	202	5241	0.080	ng/ul#	96
20) Pyrene	19.602	202	5386	0.079	ng/ul	96
21) Benzo(a)anthracene	21.344	228	3845	0.067	ng/ul	99
22) Chrysene	21.397	228	4509	0.074	ng/ul	97
24) Benzo(b)fluoranthene	22.955	252	4578	0.089	ng/ul#	62
25) Benzo(k)fluoranthene	23.004	252	4691	0.088	ng/ul#	69
26) Benzo(a)pyrene	23.548	252	3823	0.079	ng/ul#	29
27) Indeno(1,2,3-cd)pyrene	25.963	276	5261	0.077	ng/ul#	99
28) Dibenzo(a,h)anthracene	25.987	278	4054	0.077	ng/ul#	73
29) Benzo(g,h,i)perylene	26.674	276	4157	0.075	ng/ul#	87

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

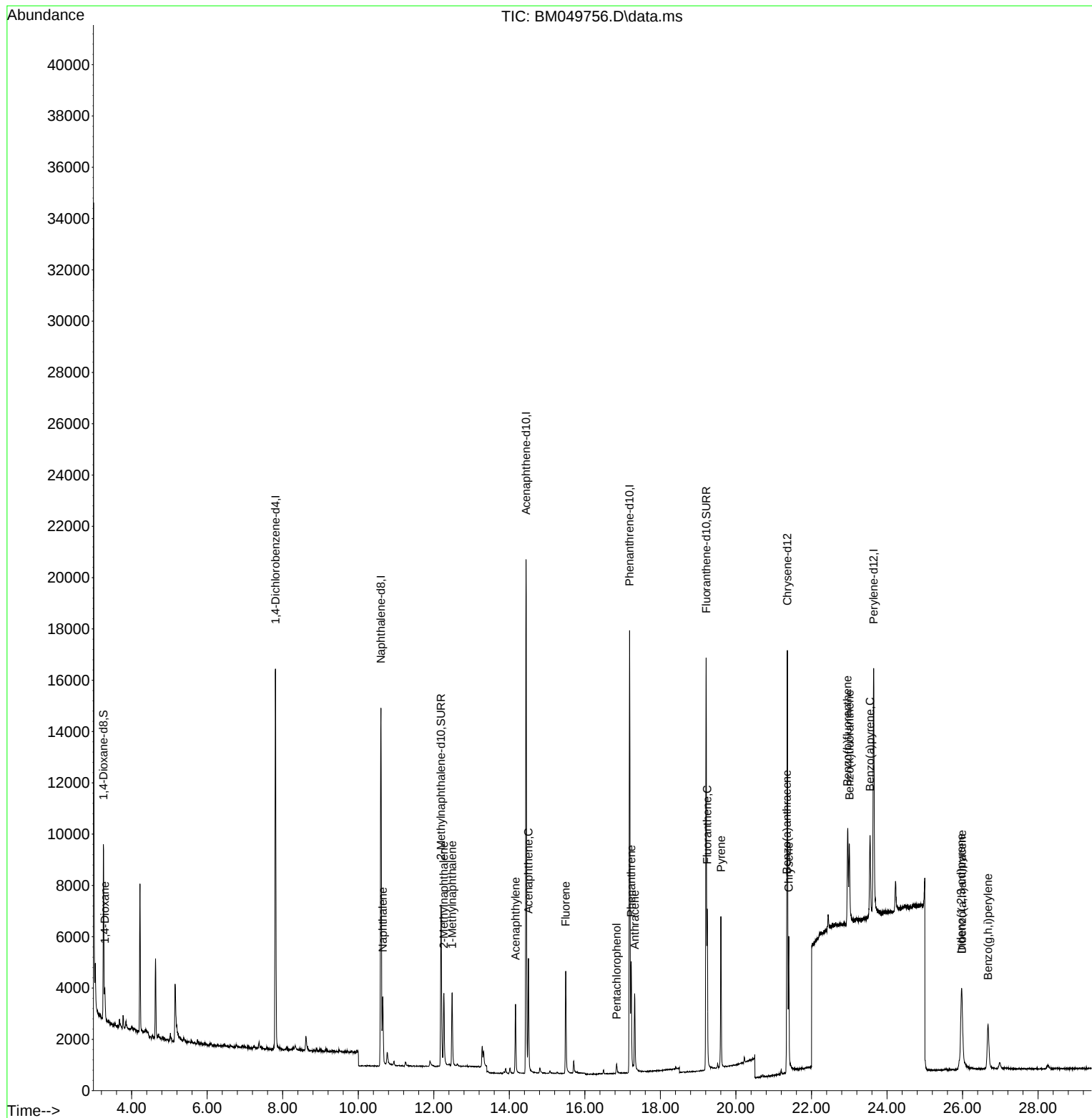
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032525\
Data File : BM049756.D
Acq On : 25 Mar 2025 11:47
Operator : RC/JU
Sample : Q1546-03
Misc : MDL-SOIL-QT1-2025
ALS Vial : 5 Sample Multiplier: 1

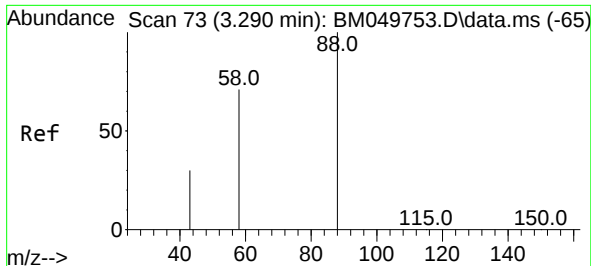
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

Quant Time: Mar 25 13:00:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-SIM-BM030425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 04 13:03:01 2025
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Manual Integrations
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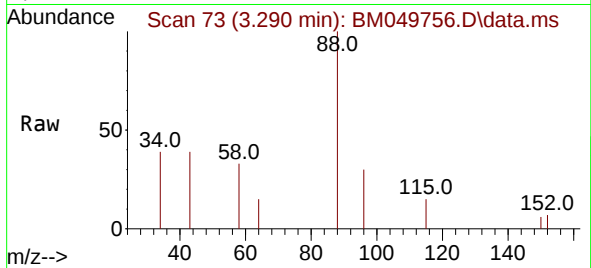
Reviewed By :Rahul Chavli 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025





#2
1,4-Dioxane
Concen: 0.062 ng/ul m
RT: 3.290 min Scan# 73
Delta R.T. -0.000 min
Lab File: BM049756.D
Acq: 25 Mar 2025 11:47

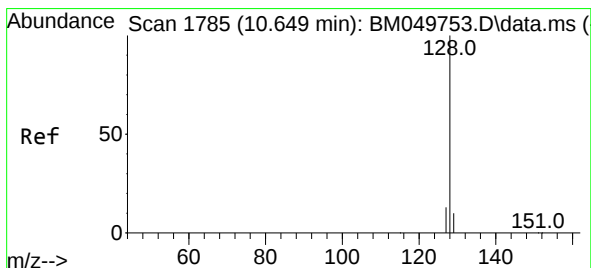
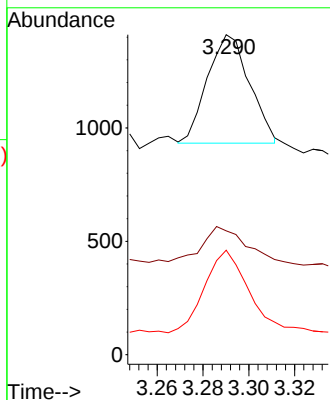
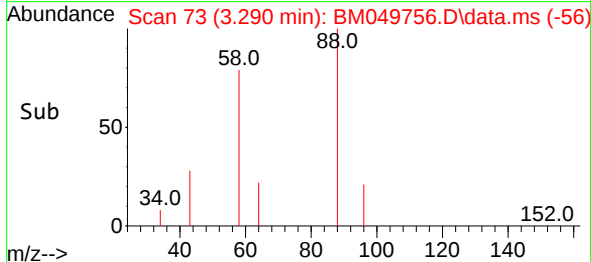
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01



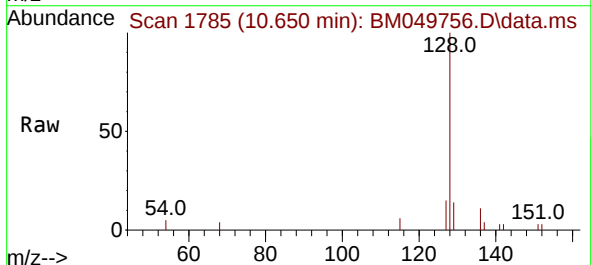
Tgt Ion: 88 Resp: 611
Ion Ratio Lower Upper
88 100
43 38.7 32.6 49.0
58 32.7 45.9 68.9

Manual Integrations
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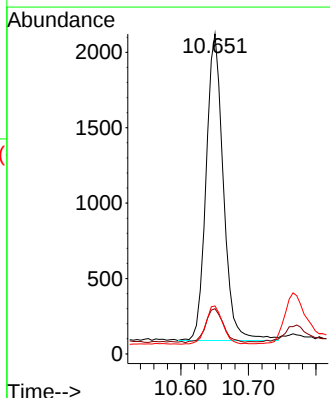
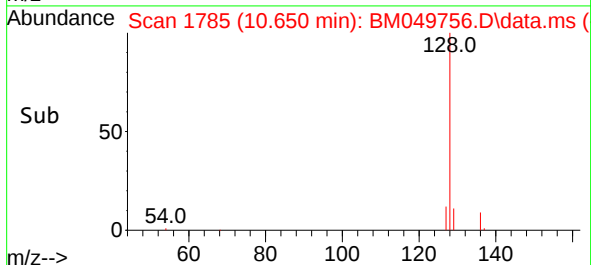
Reviewed By :Rahul Chavli 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025

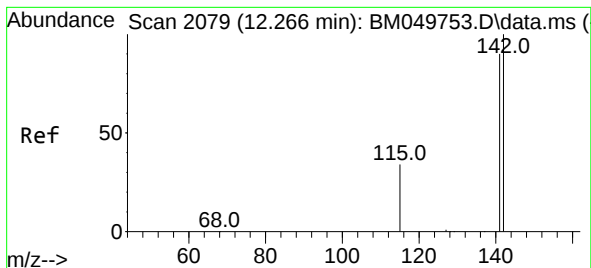


#5
Naphthalene
Concen: 0.068 ng/ul
RT: 10.650 min Scan# 1785
Delta R.T. 0.001 min
Lab File: BM049756.D
Acq: 25 Mar 2025 11:47



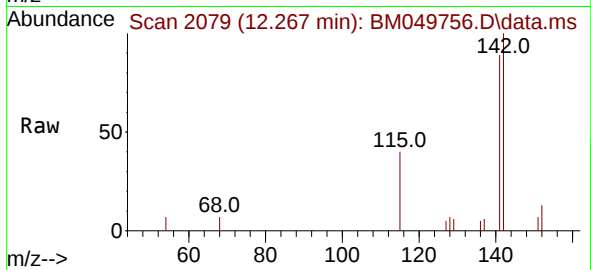
Tgt Ion:128 Resp: 3611
Ion Ratio Lower Upper
128 100
129 14.1 9.2 13.8#
127 15.0 10.2 15.4





#7
2-Methylnaphthalene
Concen: 0.069 ng/ul
RT: 12.267 min Scan# 2079
Delta R.T. 0.001 min
Lab File: BM049756.D
Acq: 25 Mar 2025 11:47

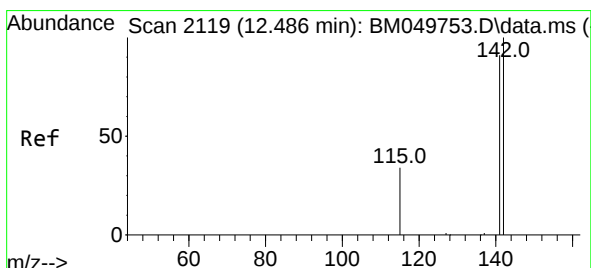
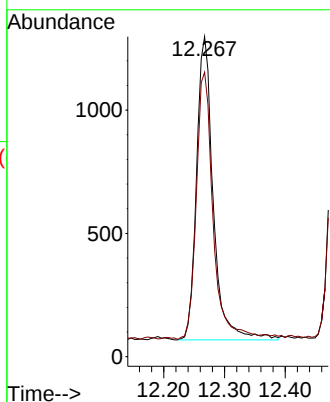
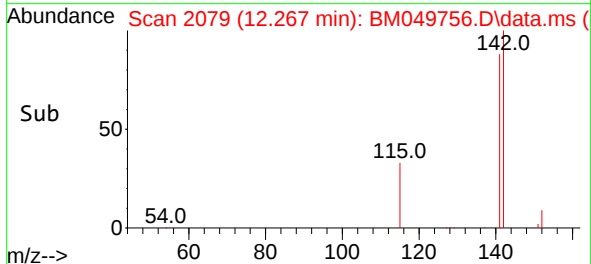
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01



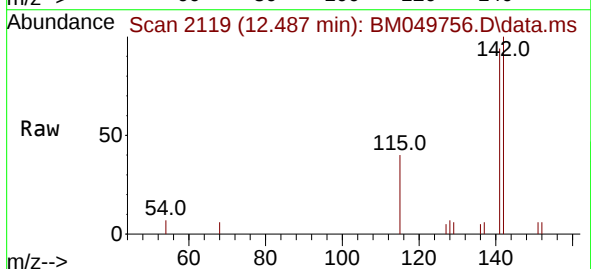
Tgt Ion:142 Resp: 2348
Ion Ratio Lower Upper
142 100
141 90.0 70.0 105.0

Manual Integrations
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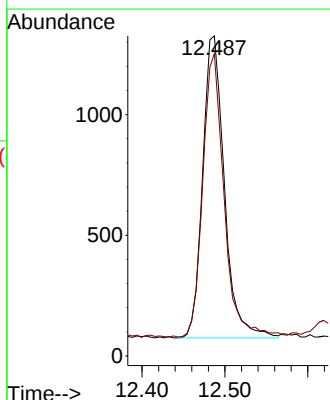
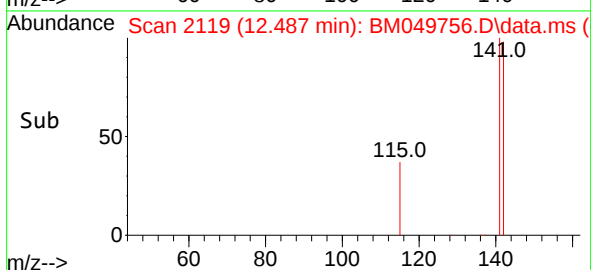
Reviewed By :Rahul Chavli 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025

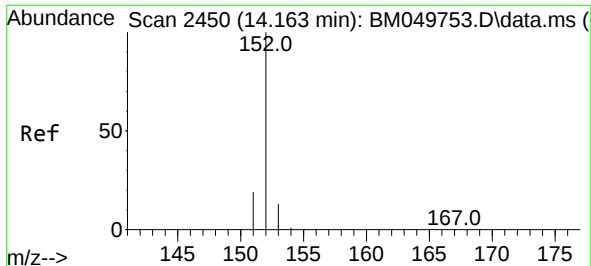


#8
1-Methylnaphthalene
Concen: 0.066 ng/ul
RT: 12.487 min Scan# 2119
Delta R.T. 0.001 min
Lab File: BM049756.D
Acq: 25 Mar 2025 11:47



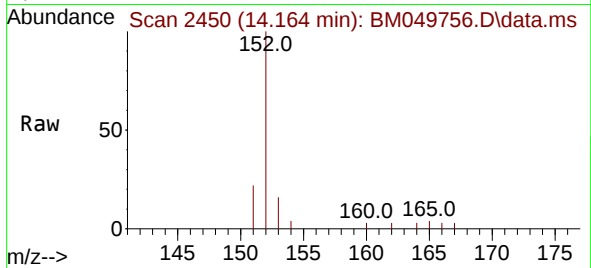
Tgt Ion:142 Resp: 2279
Ion Ratio Lower Upper
142 100
141 92.6 72.4 108.6





#10
Acenaphthylene
Concen: 0.065 ng/ul
RT: 14.164 min Scan# 2450
Delta R.T. 0.001 min
Lab File: BM049756.D
Acq: 25 Mar 2025 11:47

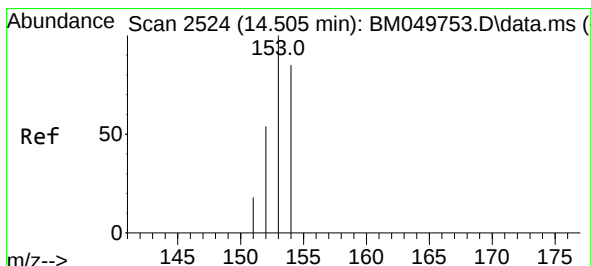
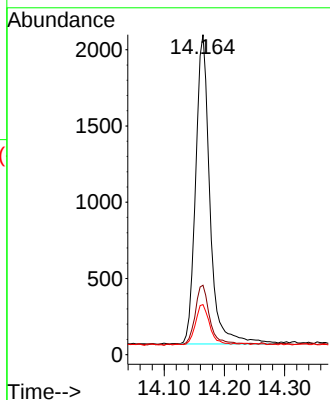
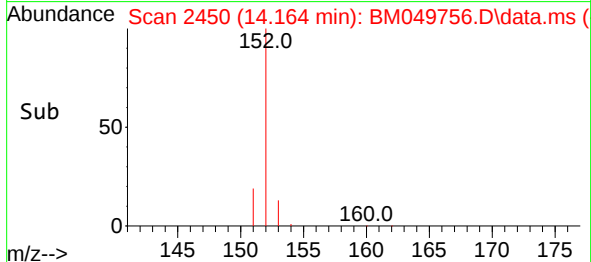
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01



Tgt Ion:152 Resp: 334
Ion Ratio Lower Upper
152 100
151 21.7 15.8 23.6
153 15.6 11.0 16.4

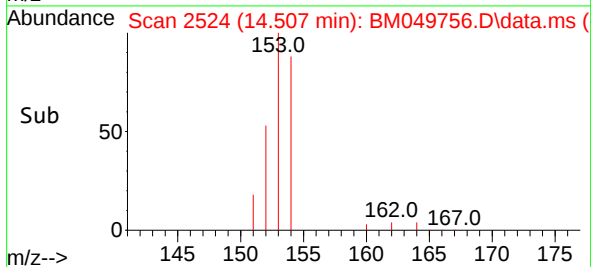
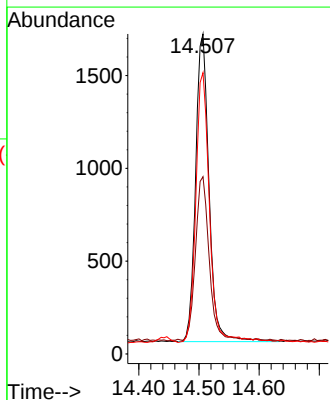
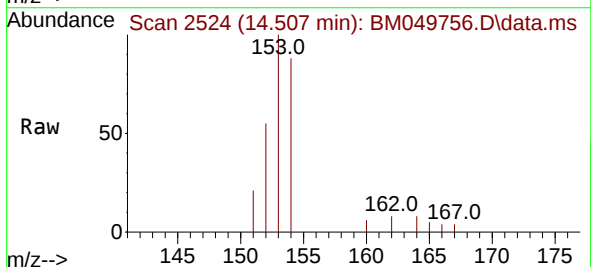
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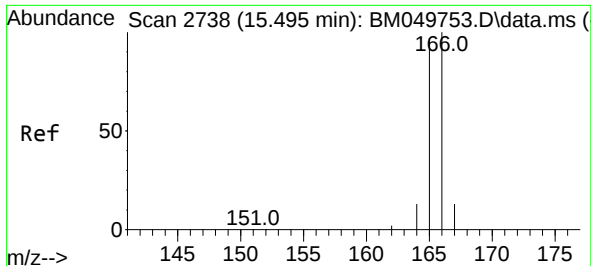
Reviewed By :Rahul Chavli 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025



#11
Acenaphthene
Concen: 0.069 ng/ul
RT: 14.507 min Scan# 2524
Delta R.T. 0.001 min
Lab File: BM049756.D
Acq: 25 Mar 2025 11:47

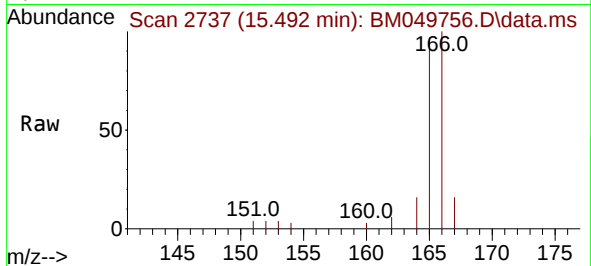
Tgt Ion:153 Resp: 2568
Ion Ratio Lower Upper
153 100
152 55.4 42.0 63.0
154 87.9 71.6 107.4





#12
Fluorene
Concen: 0.070 ng/ul
RT: 15.492 min Scan# 21
Delta R.T. 0.001 min
Lab File: BM049756.D
Acq: 25 Mar 2025 11:47

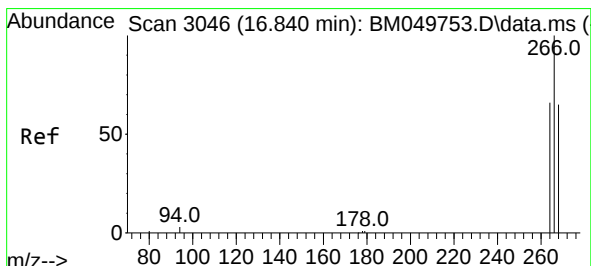
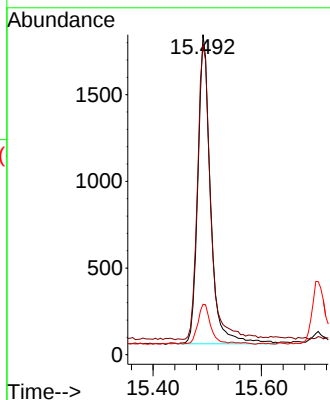
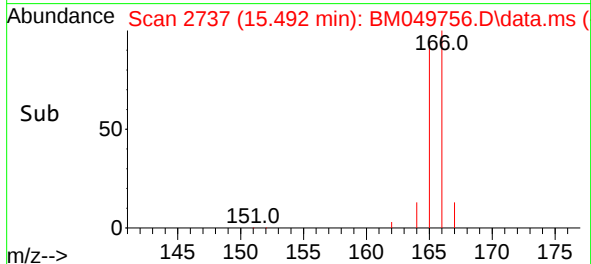
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01



Tgt Ion:166 Resp: 290
Ion Ratio Lower Upper
166 100
165 96.5 77.6 116.4
167 15.8 11.1 16.7

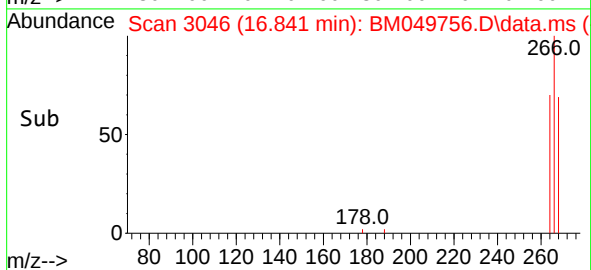
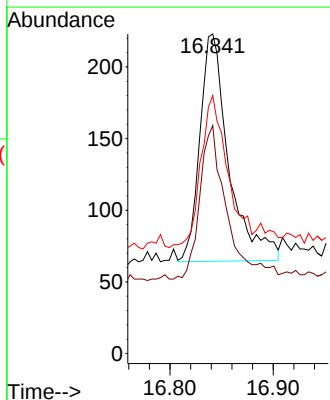
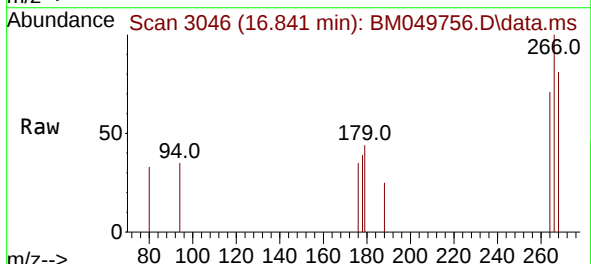
Manual Integrations
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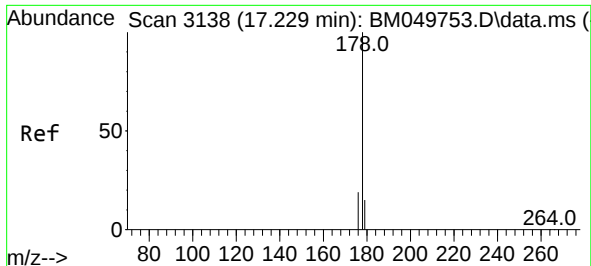
Reviewed By :Rahul Chavli 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025



#14
Pentachlorophenol
Concen: 0.064 ng/ul
RT: 16.841 min Scan# 3046
Delta R.T. 0.001 min
Lab File: BM049756.D
Acq: 25 Mar 2025 11:47

Tgt Ion:266 Resp: 310
Ion Ratio Lower Upper
266 100
264 62.9 50.2 75.4
268 62.9 49.9 74.9





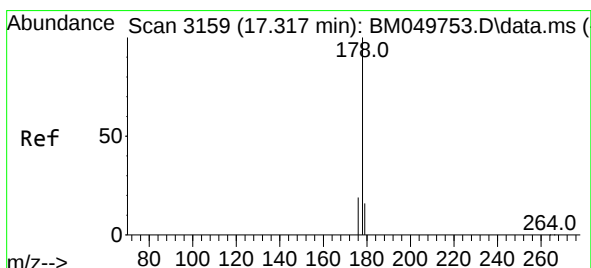
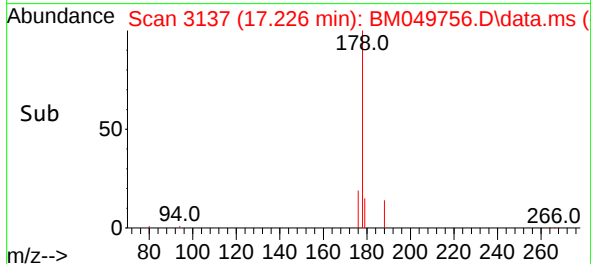
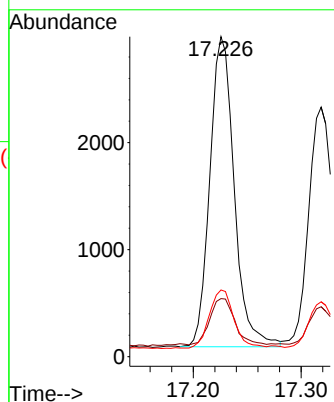
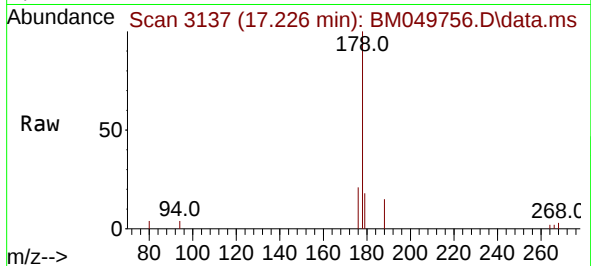
#15
Phenanthrene
Concen: 0.066 ng/ul
RT: 17.226 min Scan# 3138
Delta R.T. 0.001 min
Lab File: BM049756.D
Acq: 25 Mar 2025 11:47

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

Tgt Ion:178 Resp: 455
Ion Ratio Lower Upper
178 100
179 18.2 12.7 19.1
176 20.8 16.2 24.2

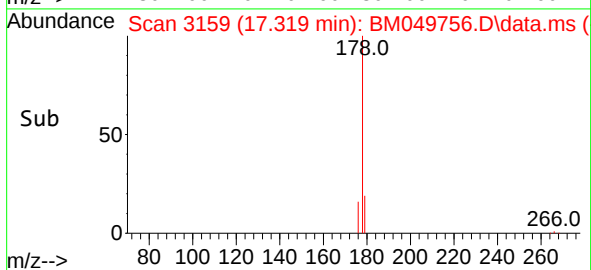
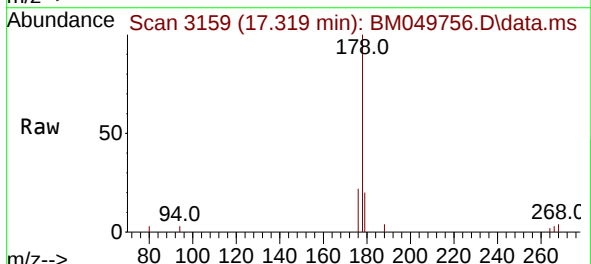
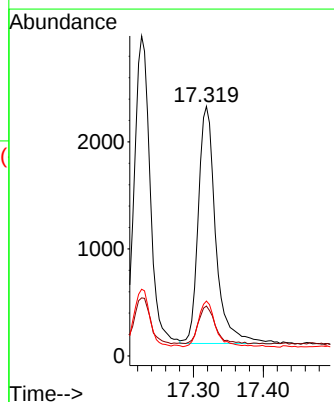
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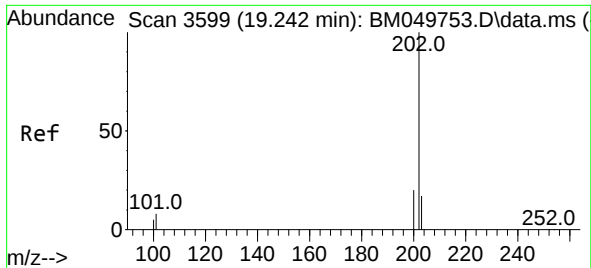
Reviewed By :Rahul Chavli 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025



#16
Anthracene
Concen: 0.062 ng/ul
RT: 17.319 min Scan# 3159
Delta R.T. 0.001 min
Lab File: BM049756.D
Acq: 25 Mar 2025 11:47

Tgt Ion:178 Resp: 3837
Ion Ratio Lower Upper
178 100
179 20.0 12.6 19.0#
176 22.0 15.5 23.3





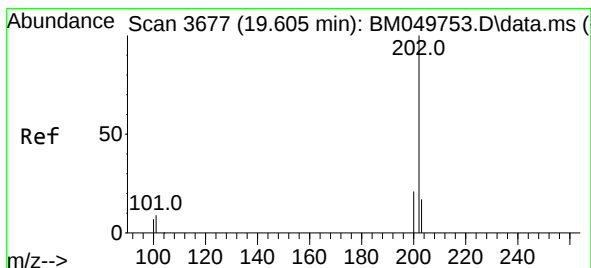
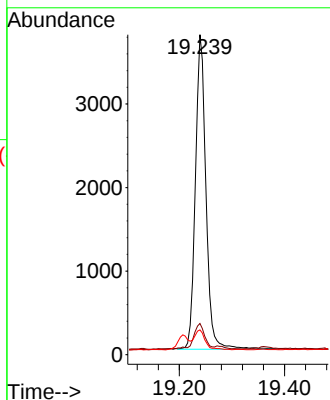
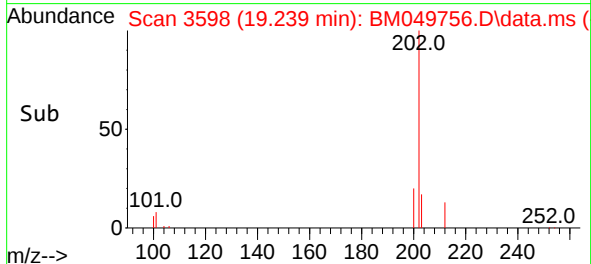
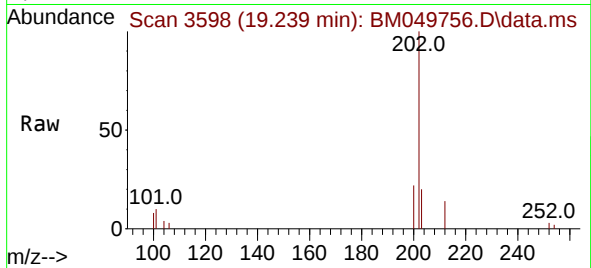
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Fluoranthene
Concen: 0.080 ng/ul
RT: 19.239 min Scan# 3598
Delta R.T. -0.003 min
Lab File: BM049756.D
Acq: 25 Mar 2025 11:47

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01

Tgt Ion:202 Resp: 524
Ion Ratio Lower Upper
202 100
101 9.8 6.6 10.0
100 7.8 5.0 7.4

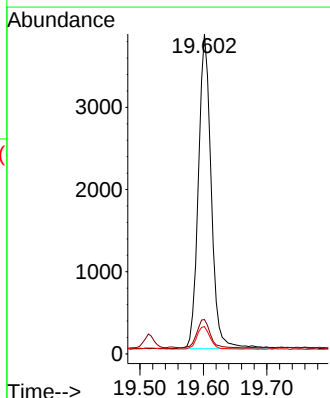
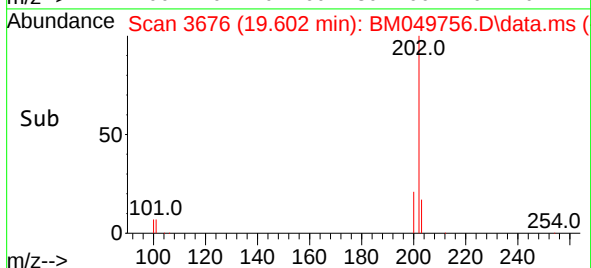
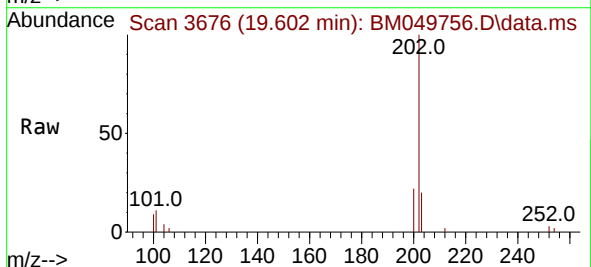
Manual Integrations
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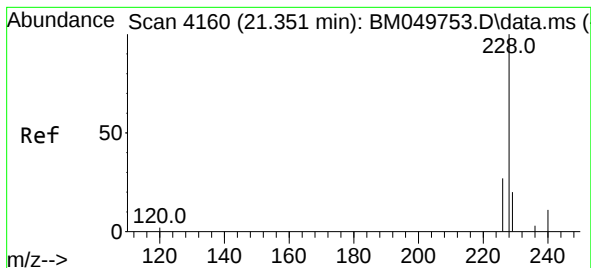
Reviewed By :Rahul Chavli 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025



#20
Pyrene
Concen: 0.079 ng/ul
RT: 19.602 min Scan# 3676
Delta R.T. -0.003 min
Lab File: BM049756.D
Acq: 25 Mar 2025 11:47

Tgt Ion:202 Resp: 5386
Ion Ratio Lower Upper
202 100
101 10.8 7.4 11.2
100 8.6 6.0 9.0





#21

Benzo(a)anthracene

Concen: 0.067 ng/ul

RT: 21.344 min Scan# 41

Delta R.T. -0.006 min

Lab File: BM049756.D

Acq: 25 Mar 2025 11:47

Instrument :

BNA_M

ClientSampleId :

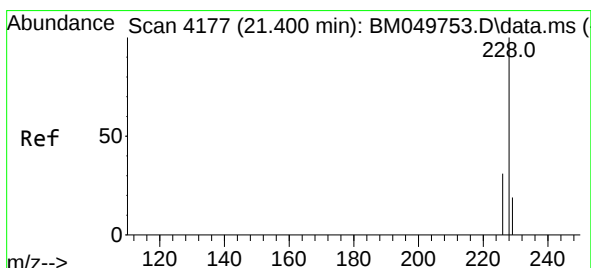
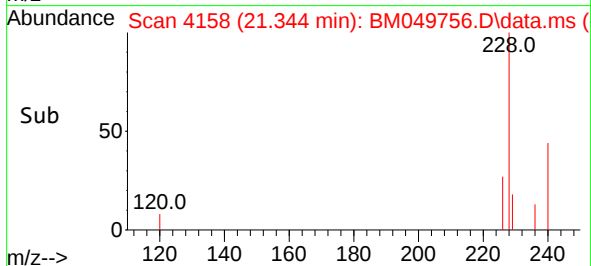
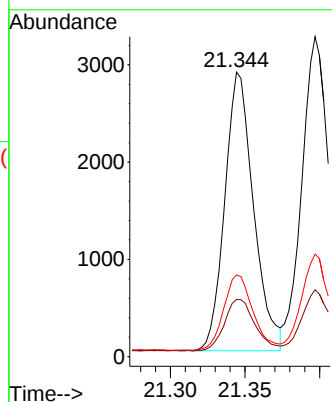
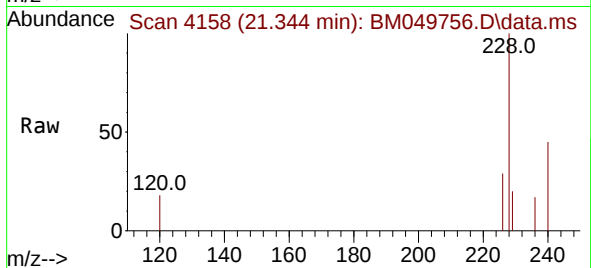
MDL-SOIL-QT1-2025-01

Tgt Ion:228	Resp:	384
Ion Ratio	Lower	Upper
228	100	
229	20.1	16.0 24.0
226	28.7	22.1 33.1

Manual Integrations

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Reviewed By :Rahul Chavli 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025



#22

Chrysene

Concen: 0.074 ng/ul

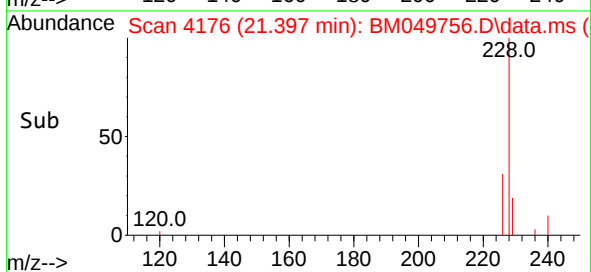
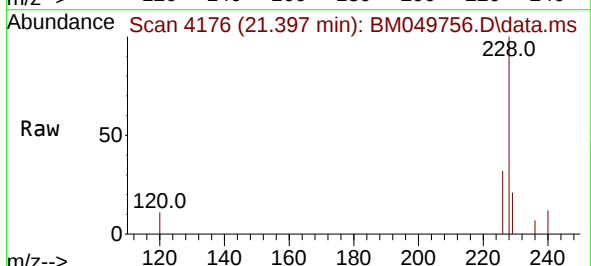
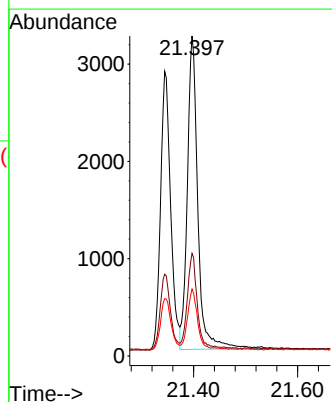
RT: 21.397 min Scan# 4176

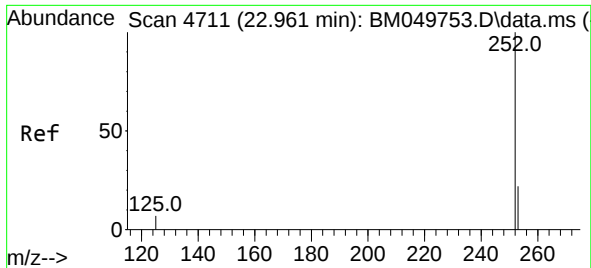
Delta R.T. -0.006 min

Lab File: BM049756.D

Acq: 25 Mar 2025 11:47

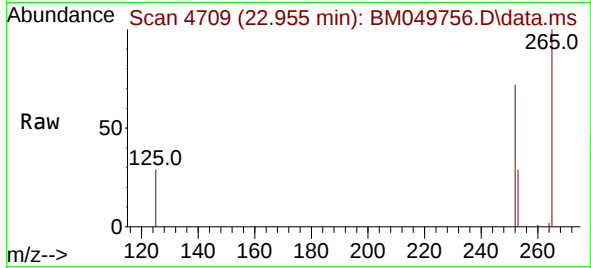
Tgt Ion:228	Resp:	4509
Ion Ratio	Lower	Upper
228	100	
226	32.0	24.2 36.4
229	20.9	16.0 24.0





#24
Benzo(b)fluoranthene
Concen: 0.089 ng/ul
RT: 22.955 min Scan# 4711
Delta R.T. -0.006 min
Lab File: BM049756.D
Acq: 25 Mar 2025 11:47

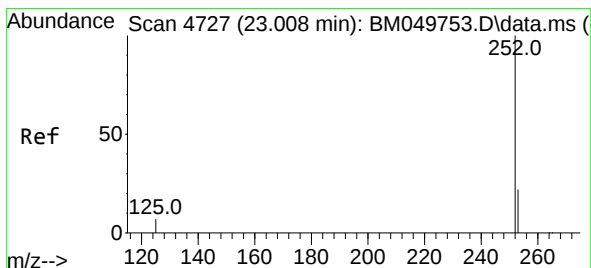
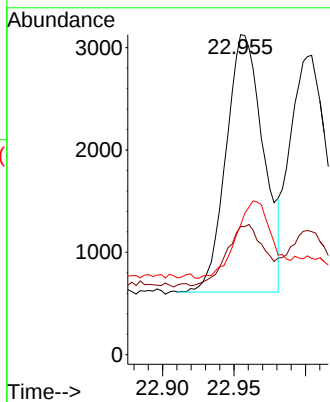
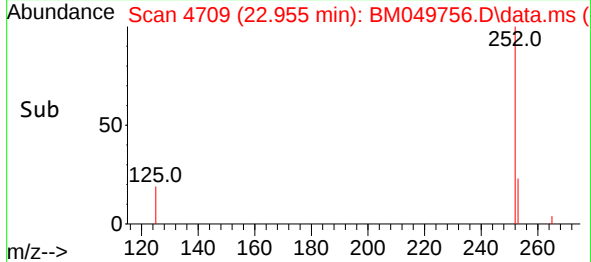
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2025-01



Tgt Ion:252 Resp: 4578
Ion Ratio Lower Upper
252 100
253 40.1 0.0 54.4
125 40.5 0.0 29.2

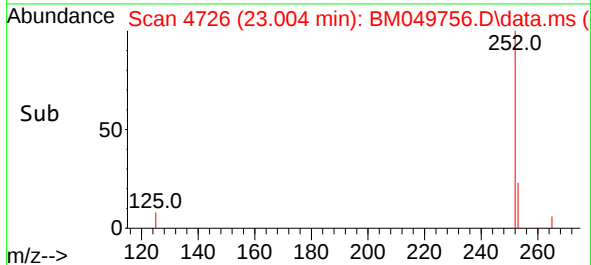
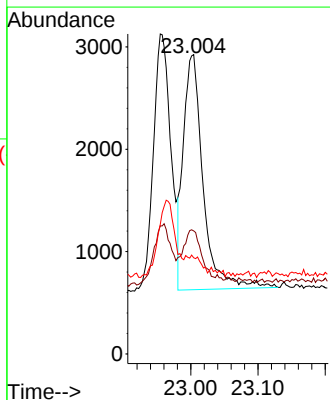
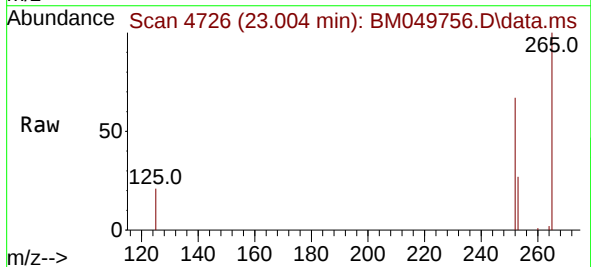
Manual Integrations
APPROVED

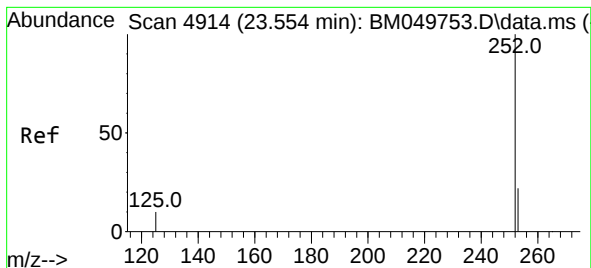
Reviewed By :Rahul Chavli 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025



#25
Benzo(k)fluoranthene
Concen: 0.088 ng/ul
RT: 23.004 min Scan# 4726
Delta R.T. -0.003 min
Lab File: BM049756.D
Acq: 25 Mar 2025 11:47

Tgt Ion:252 Resp: 4691
Ion Ratio Lower Upper
252 100
253 41.1 22.2 33.2#
125 32.1 11.7 17.5#





#26

Benzo(a)pyrene

Concen: 0.079 ng/ul

RT: 23.548 min Scan# 4914

Delta R.T. -0.003 min

Lab File: BM049756.D

Acq: 25 Mar 2025 11:47

Instrument :

BNM

ClientSampleId :

MDL-SOIL-QT1-2025-01

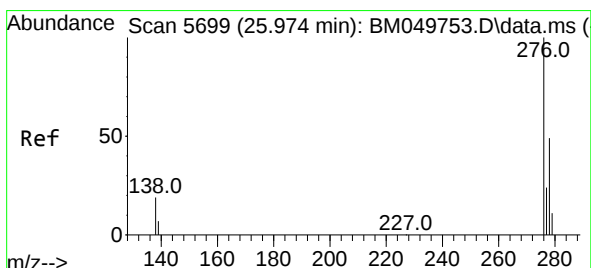
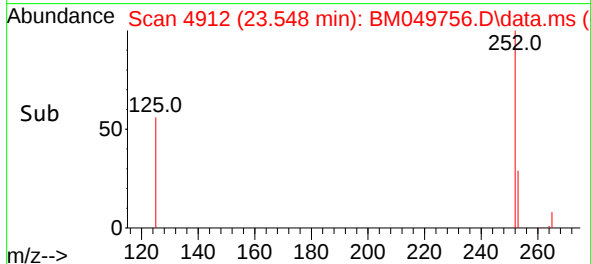
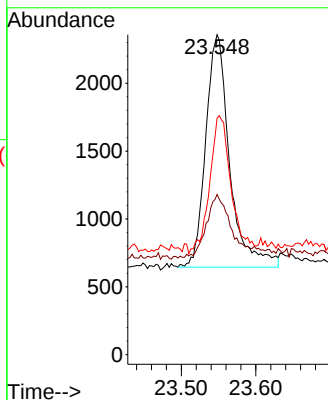
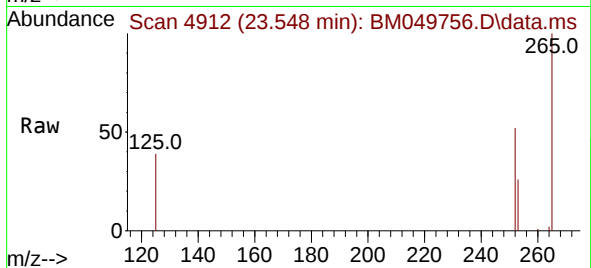
Tgt Ion:	252	Resp:	382
Ion Ratio	Lower	Upper	
252	100		
253	50.0	23.7	35.5
125	73.9	15.0	22.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 03/25/2025

Supervised By :Jagrut Upadhyay 03/25/2025



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.077 ng/ul

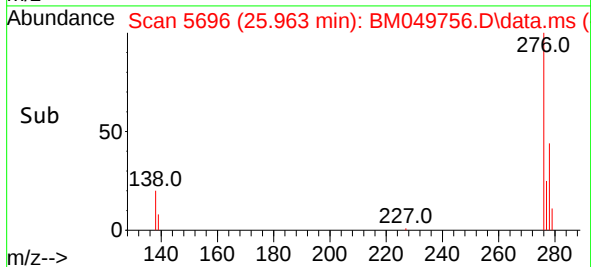
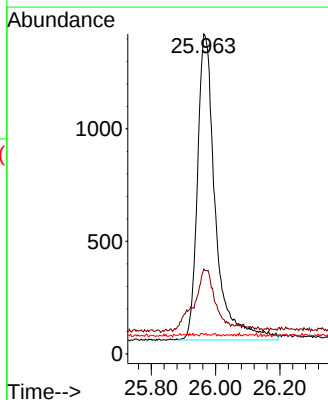
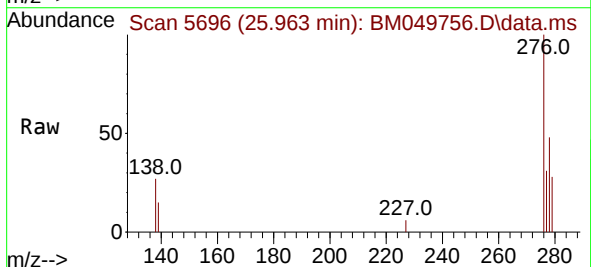
RT: 25.963 min Scan# 5696

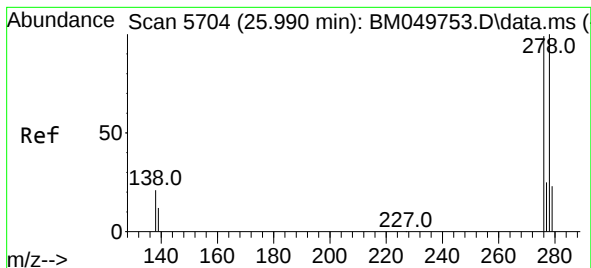
Delta R.T. -0.011 min

Lab File: BM049756.D

Acq: 25 Mar 2025 11:47

Tgt Ion:	276	Resp:	5261
Ion Ratio	Lower	Upper	
276	100		
138	19.7	16.2	24.4
227	0.3	0.1	0.1





#28

Dibenzo(a,h)anthracene

Concen: 0.077 ng/ul

RT: 25.987 min Scan# 51

Delta R.T. -0.004 min

Lab File: BM049756.D

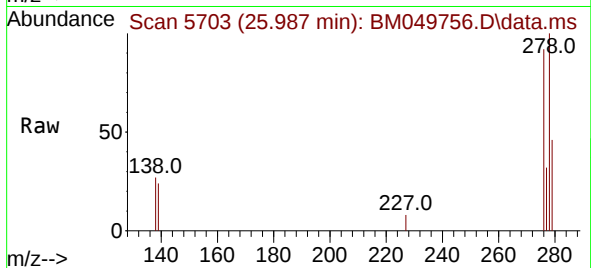
Acq: 25 Mar 2025 11:47

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2025-01



Tgt Ion:278 Resp: 4054

Ion Ratio Lower Upper

278 100

139 23.6 13.0 19.4#

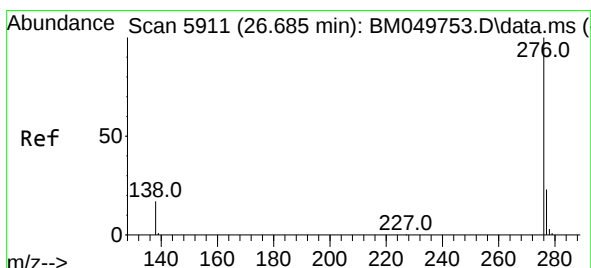
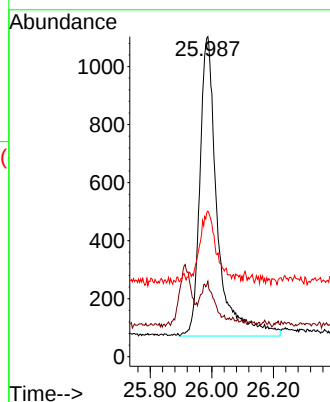
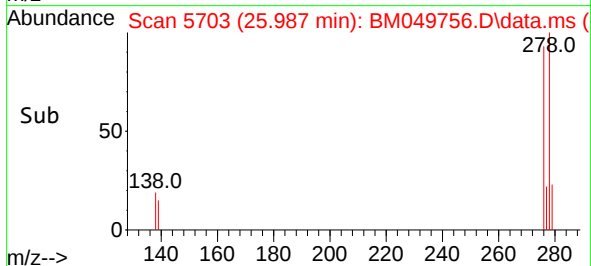
279 45.5 22.6 33.8#

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 03/25/2025

Supervised By :Jagrut Upadhyay 03/25/2025



#29

Benzo(g,h,i)perylene

Concen: 0.075 ng/ul

RT: 26.674 min Scan# 5908

Delta R.T. -0.007 min

Lab File: BM049756.D

Acq: 25 Mar 2025 11:47

Tgt Ion:276 Resp: 4157

Ion Ratio Lower Upper

276 100

138 25.3 15.2 22.8#

277 31.8 20.3 30.5#

