

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050825\
 Data File : BM050153.D
 Acq On : 08 May 2025 19:17
 Operator : RC/JU
 Sample : Q1972-21
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 WC-B-1

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/09/2025
 Supervised By :Jagrut Upadhyay 05/09/2025

Quant Time: May 09 01:55:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 08 12:03:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.740	152	286619	20.000	ng	-0.03
21) Naphthalene-d8	10.533	136	1023064	20.000	ng	-0.03
39) Acenaphthene-d10	14.392	164	688894	20.000	ng	-0.02
64) Phenanthrene-d10	17.139	188	1408479	20.000	ng	-0.02
76) Chrysene-d12	21.380	240	1383066	20.000	ng	-0.02
86) Perylene-d12	24.374	264	1398074	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.340	112	1190786	72.750	ng	-0.02
7) Phenol-d6	6.934	99	1513048	73.546	ng	-0.02
23) Nitrobenzene-d5	8.904	82	864860	41.656	ng	-0.02
42) 2,4,6-Tribromophenol	15.892	330	729308	71.598	ng	-0.01
45) 2-Fluorobiphenyl	13.004	172	2114571	36.312	ng	-0.03
79) Terphenyl-d14	19.762	244	3309090	35.404	ng	-0.02
Target Compounds						Qvalue
75) Fluoranthene	19.204	202	357960	3.838	ng	98
78) Pyrene	19.568	202	356950	3.675	ng	98
81) Benzo(a)anthracene	21.362	228	203447	2.136	ng	98
83) Chrysene	21.421	228	210415m	2.387	ng	
87) Indeno(1,2,3-cd)pyrene	27.756	276	221019	2.122	ng	98
88) Benzo(b)fluoranthene	23.433	252	362093	3.983	ng	# 93
90) Benzo(a)pyrene	24.233	252	296371	3.480	ng	# 95
92) Benzo(g,h,i)perylene	28.815	276	232260	2.857	ng	99

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

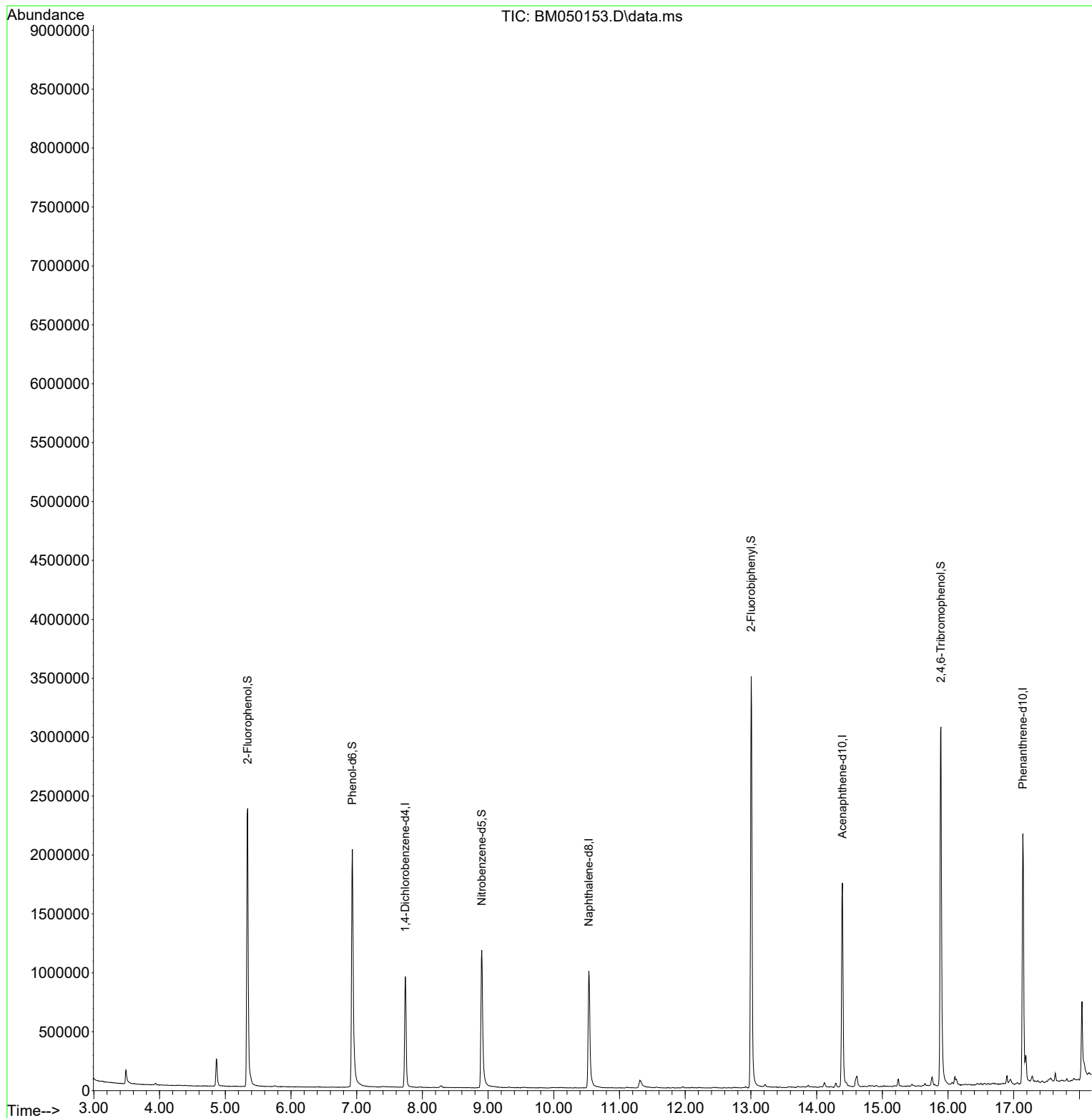
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050825\
Data File : BM050153.D
Acq On : 08 May 2025 19:17
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Sample : Q1972-21
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ALS Vial : 15 Sample Multiplier: 1

Instrument :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration



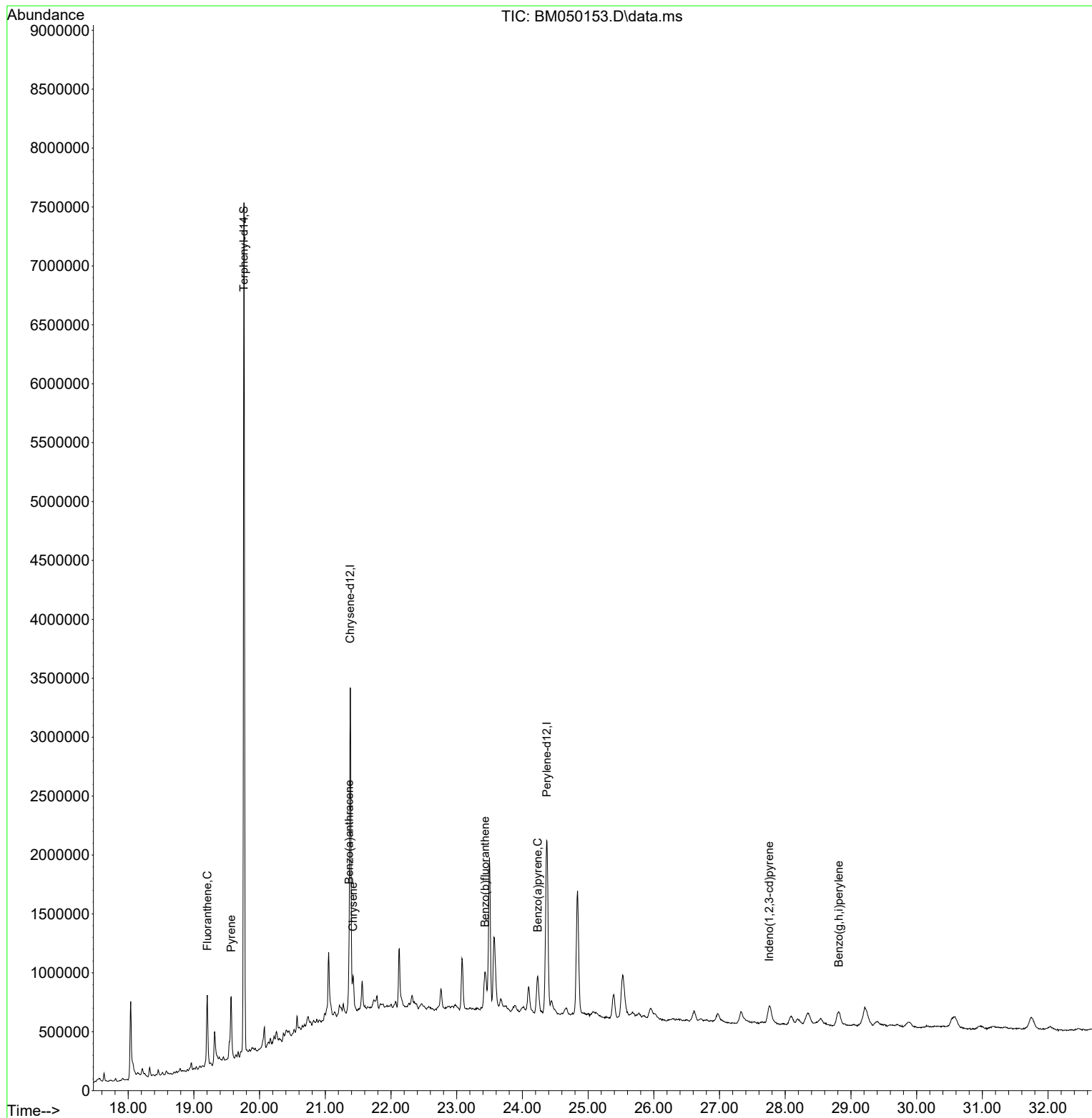
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Data File : BM050153.D
Acq On : 08 May 2025 19:17
Operator : RC/JU
Sample : Q1972-21
Misc :
ALS Vial : 15 Sample Multiplier: 1

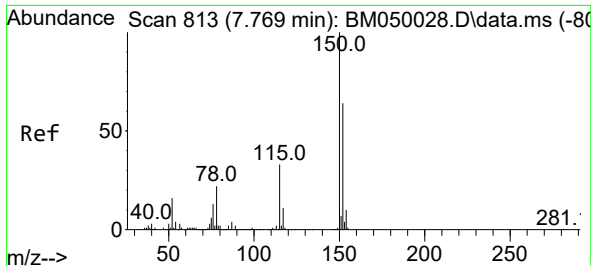
Instrument :
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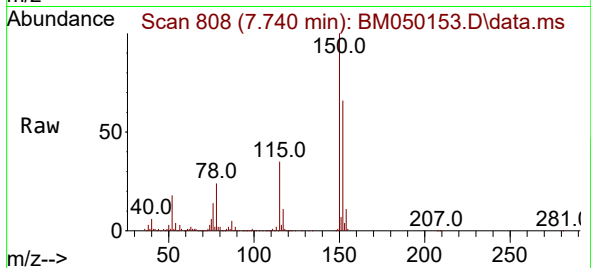
Quant Time: May 09 01:55:58 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu May 08 12:03:21 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.740 min Scan# 80
Delta R.T. -0.029 min
Lab File: BM050153.D
Acq: 08 May 2025 19:17

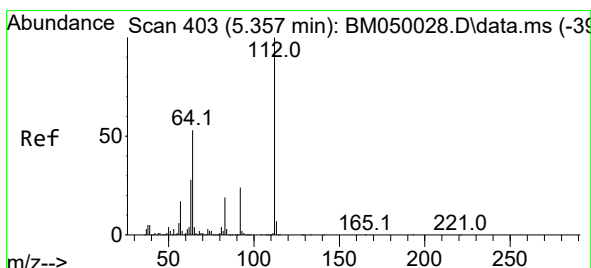
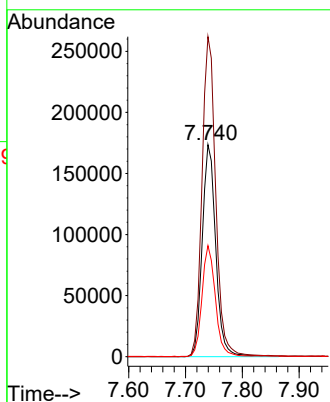
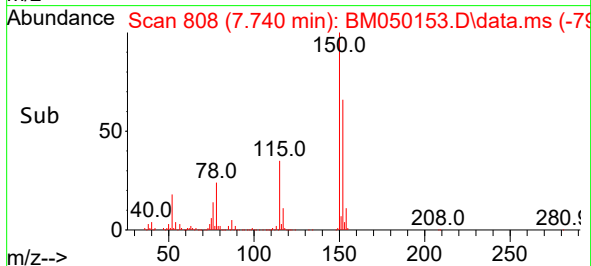
Instrument :
BNA_M
ClientSampleId :
WC-B-1



Tgt Ion:152 Resp: 286619
Ion Ratio Lower Upper
152 100
150 150.9 124.1 186.1
115 52.3 41.2 61.8

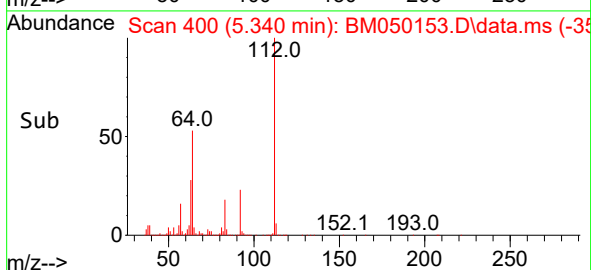
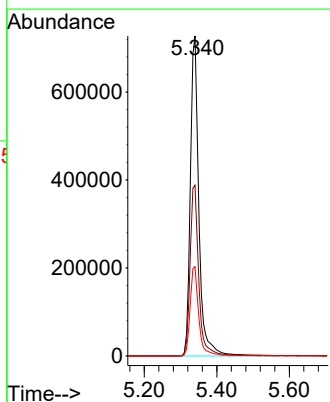
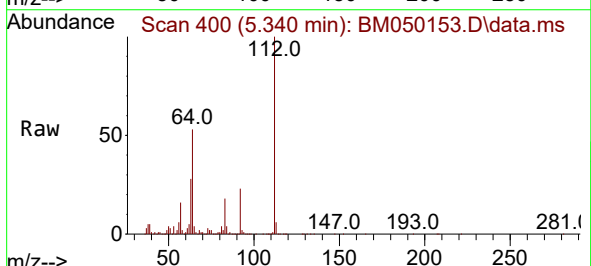
Manual Integrations
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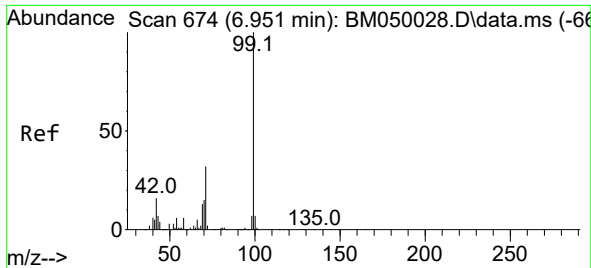
Reviewed By :Rahul Chavli 05/09/2025
Supervised By :Jagrut Upadhyay 05/09/2025



#5
2-Fluorophenol
Concen: 72.750 ng
RT: 5.340 min Scan# 400
Delta R.T. -0.018 min
Lab File: BM050153.D
Acq: 08 May 2025 19:17

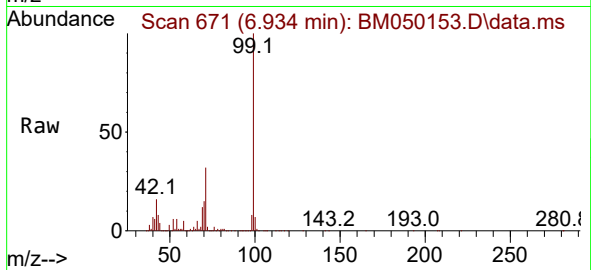
Tgt Ion:112 Resp: 1190786
Ion Ratio Lower Upper
112 100
64 53.3 42.6 64.0
63 27.9 22.2 33.4





#7
Phenol-d6
Concen: 73.546 ng
RT: 6.934 min Scan# 61
Delta R.T. -0.018 min
Lab File: BM050153.D
Acq: 08 May 2025 19:17

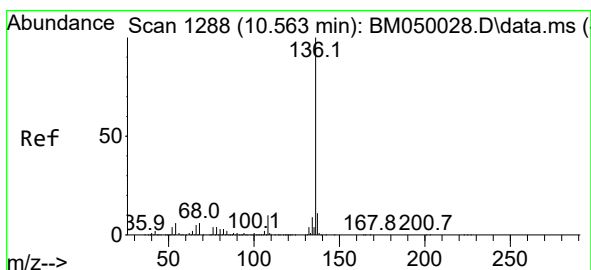
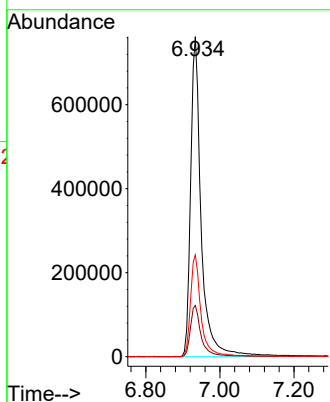
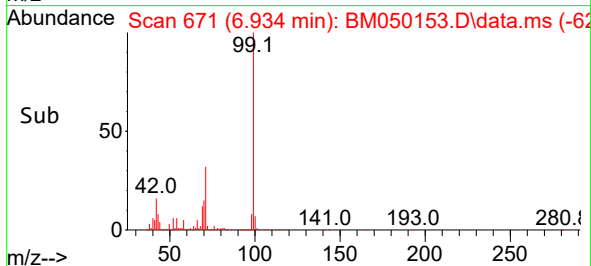
Instrument :
BNA_M
ClientSampleId :
WC-B-1



Tgt Ion: 99 Resp: 151304
Ion Ratio Lower Upper
99 100
42 16.0 13.0 19.4
71 31.8 25.6 38.4

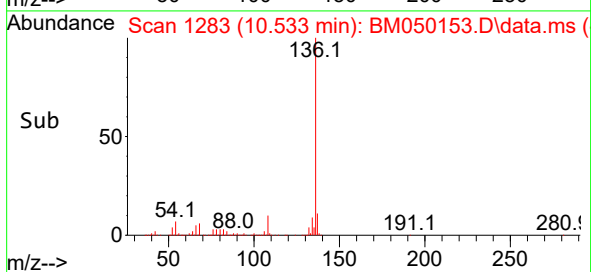
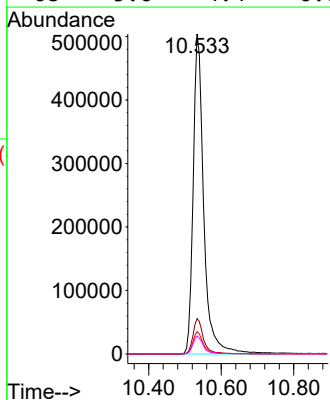
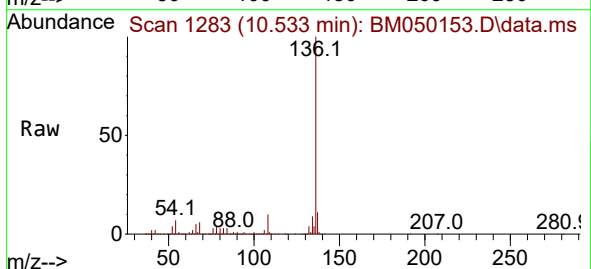
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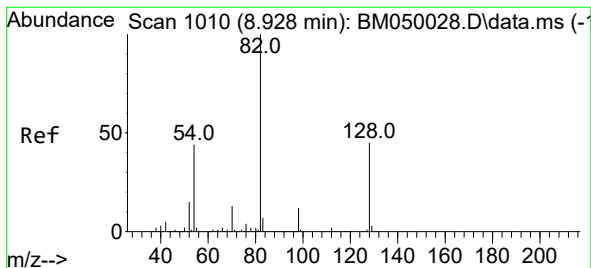
Reviewed By :Rahul Chavli 05/09/2025
Supervised By :Jagrut Upadhyay 05/09/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.533 min Scan# 1283
Delta R.T. -0.029 min
Lab File: BM050153.D
Acq: 08 May 2025 19:17

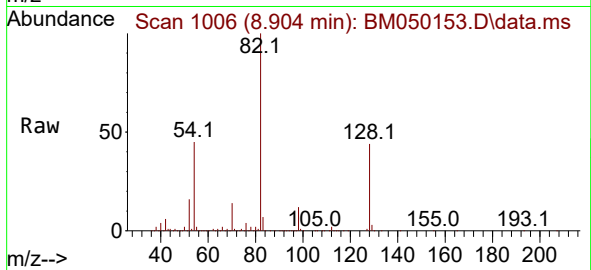
Tgt Ion:136 Resp: 1023064
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 7.0 5.1 7.7
68 5.6 4.4 6.6





#23
Nitrobenzene-d5
Concen: 41.656 ng
RT: 8.904 min Scan# 1010
Delta R.T. -0.024 min
Lab File: BM050153.D
Acq: 08 May 2025 19:17

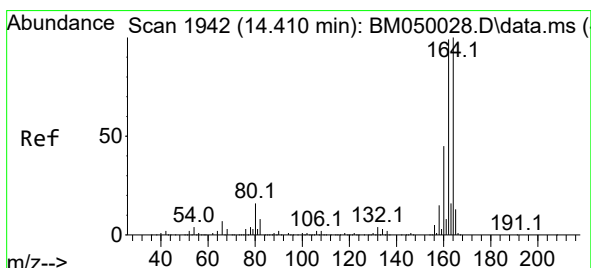
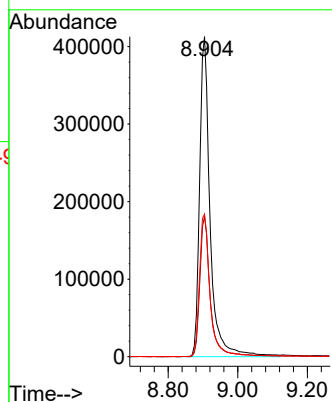
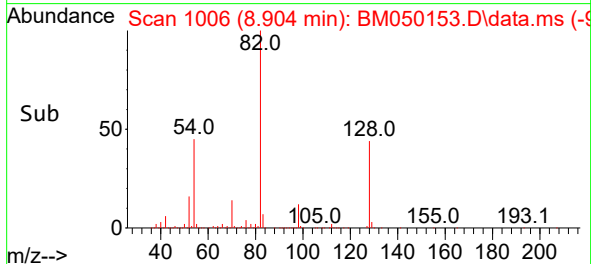
Instrument :
BNA_M
ClientSampleId :
WC-B-1



Tgt Ion: 82 Resp: 864860
Ion Ratio Lower Upper
82 100
128 43.9 35.7 53.5
54 44.5 35.4 53.2

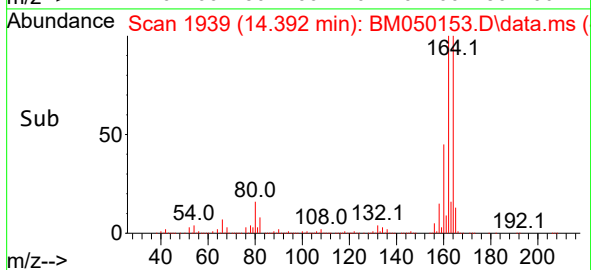
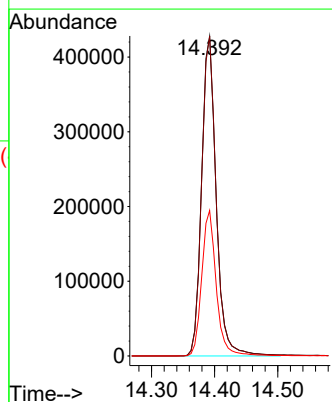
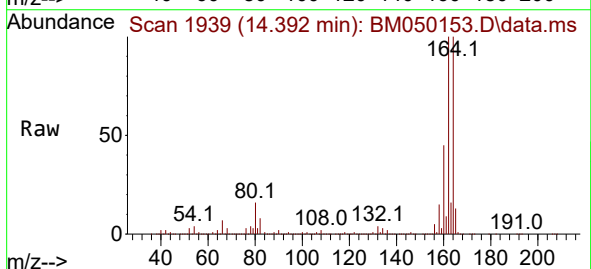
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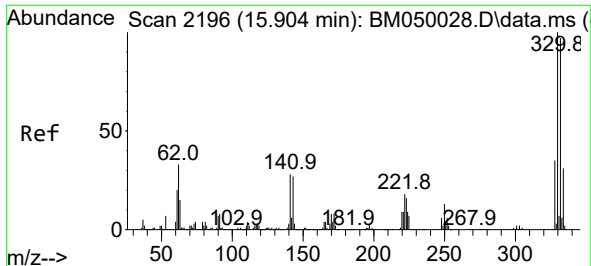
Reviewed By :Rahul Chavli 05/09/2025
Supervised By :Jagrut Upadhyay 05/09/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.392 min Scan# 1939
Delta R.T. -0.018 min
Lab File: BM050153.D
Acq: 08 May 2025 19:17

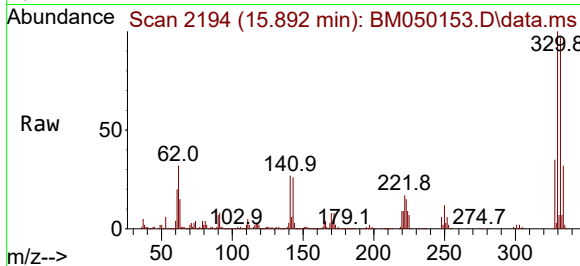
Tgt Ion:164 Resp: 688894
Ion Ratio Lower Upper
164 100
162 100.1 79.4 119.0
160 45.5 36.2 54.4





#42
2,4,6-Tribromophenol
Concen: 71.598 ng
RT: 15.892 min Scan# 2196
Delta R.T. -0.012 min
Lab File: BM050153.D
Acq: 08 May 2025 19:17

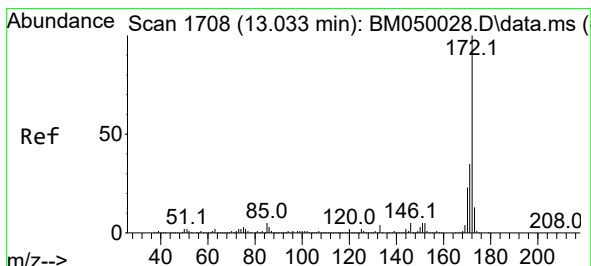
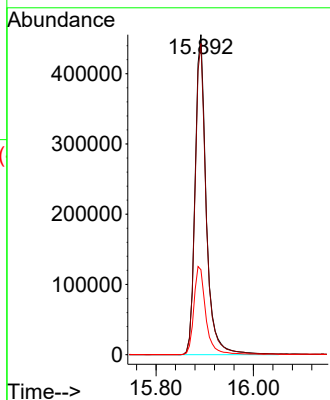
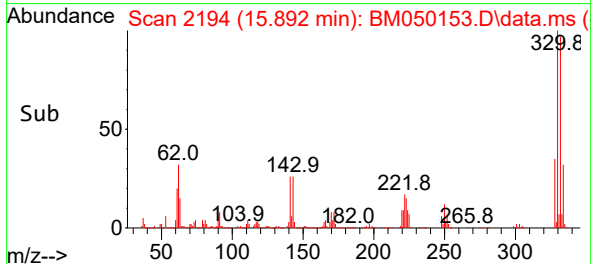
Instrument :
BNA_M
ClientSampleId :
WC-B-1



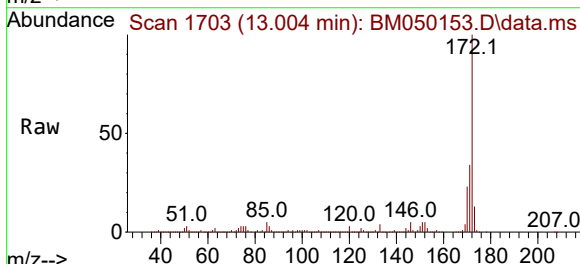
Tgt Ion:330 Resp: 729308
Ion Ratio Lower Upper
330 100
332 97.7 77.3 115.9
141 29.4 22.5 33.7

Manual Integrations
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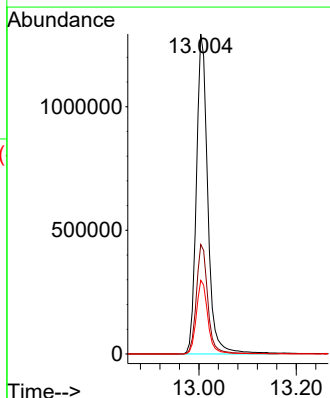
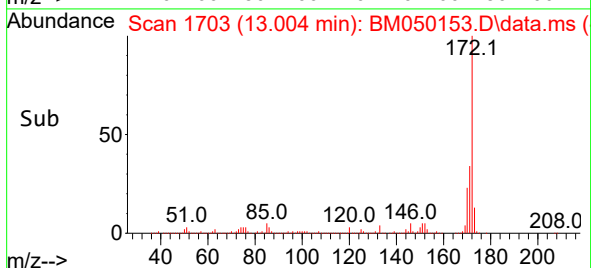
Reviewed By :Rahul Chavli 05/09/2025
Supervised By :Jagrut Upadhyay 05/09/2025

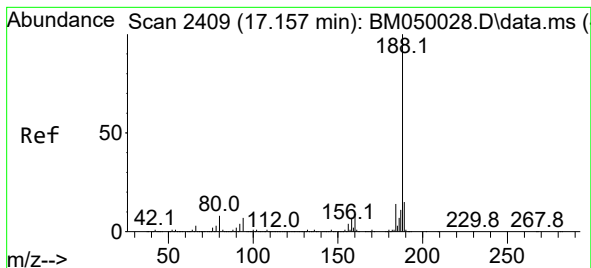


#45
2-Fluorobiphenyl
Concen: 36.312 ng
RT: 13.004 min Scan# 1703
Delta R.T. -0.029 min
Lab File: BM050153.D
Acq: 08 May 2025 19:17



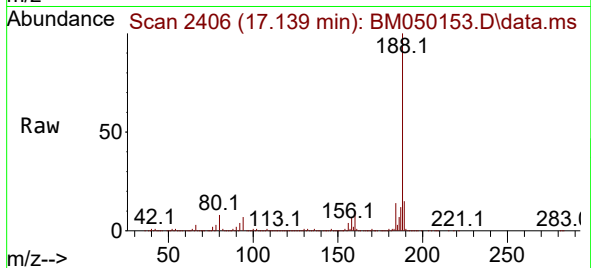
Tgt Ion:172 Resp: 2114571
Ion Ratio Lower Upper
172 100
171 34.2 27.8 41.6
170 23.0 18.6 28.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.139 min Scan# 2409
Delta R.T. -0.018 min
Lab File: BM050153.D
Acq: 08 May 2025 19:17

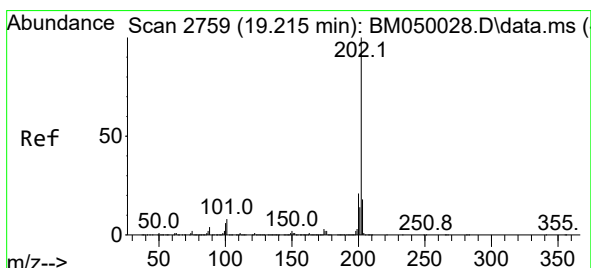
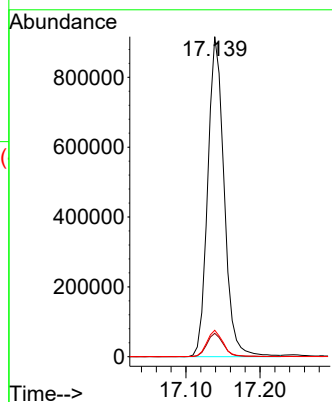
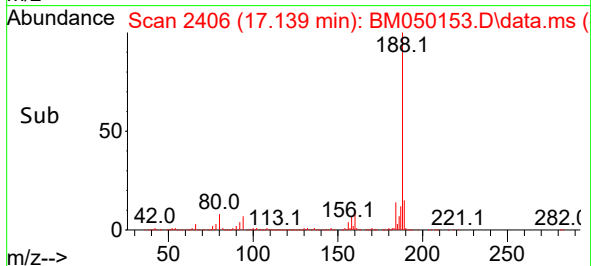
Instrument :
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WC-B-1



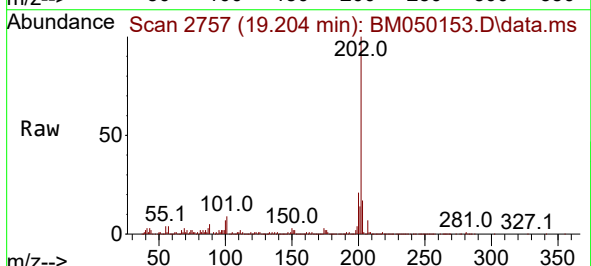
Tgt Ion:188 Resp: 1408479
Ion Ratio Lower Upper
188 100
94 7.3 5.7 8.5
80 8.3 6.2 9.4

Manual Integrations
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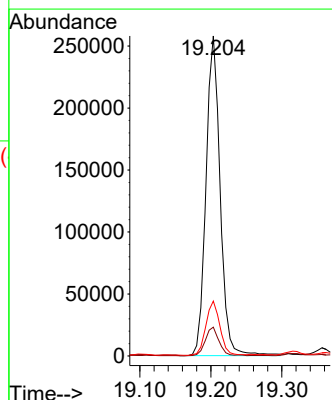
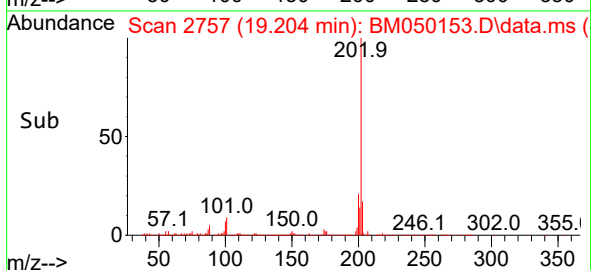
Reviewed By :Rahul Chavli 05/09/2025
Supervised By :Jagrut Upadhyay 05/09/2025

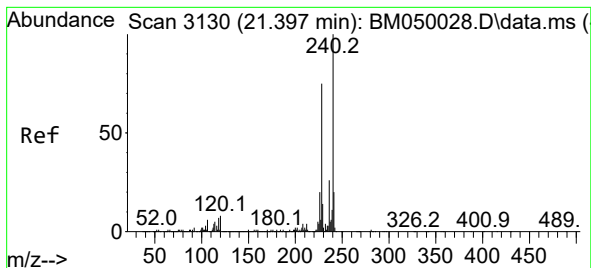


#75
Fluoranthene
Concen: 3.838 ng
RT: 19.204 min Scan# 2757
Delta R.T. -0.012 min
Lab File: BM050153.D
Acq: 08 May 2025 19:17



Tgt Ion:202 Resp: 357960
Ion Ratio Lower Upper
202 100
101 9.0 0.0 28.0
203 17.2 0.0 37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.380 min Scan# 31

Delta R.T. -0.017 min

Lab File: BM050153.D

Acq: 08 May 2025 19:17

Instrument :

BNA_M

ClientSampleId :

WC-B-1

Tgt Ion:240 Resp: 138306

Ion Ratio Lower Upper

240 100

120 8.9 6.5 9.7

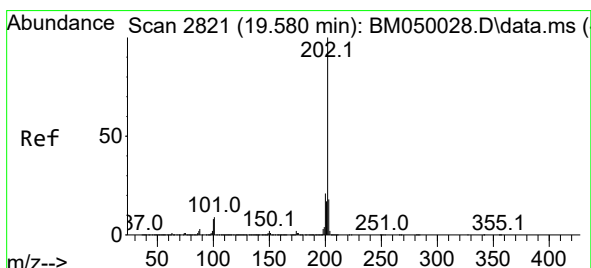
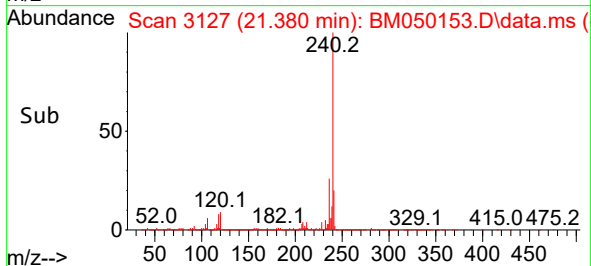
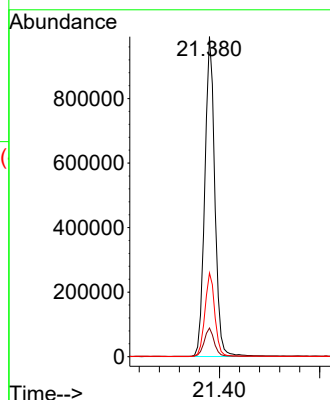
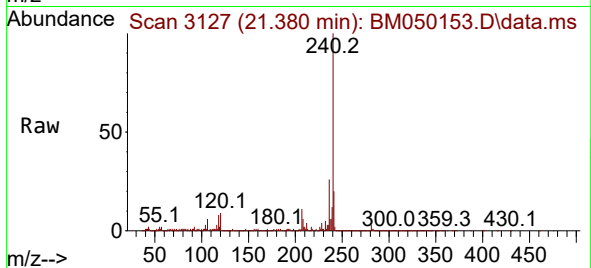
236 26.1 20.9 31.3

Manual Integrations

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Reviewed By :Rahul Chavli 05/09/2025

Supervised By :Jagrut Upadhyay 05/09/2025



#78

Pyrene

Concen: 3.675 ng

RT: 19.568 min Scan# 2819

Delta R.T. -0.012 min

Lab File: BM050153.D

Acq: 08 May 2025 19:17

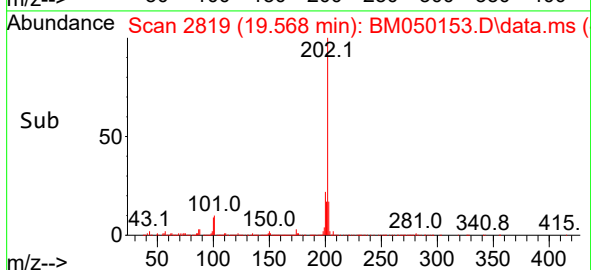
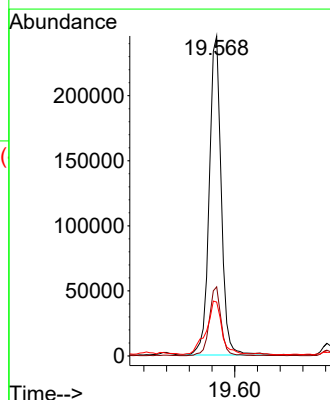
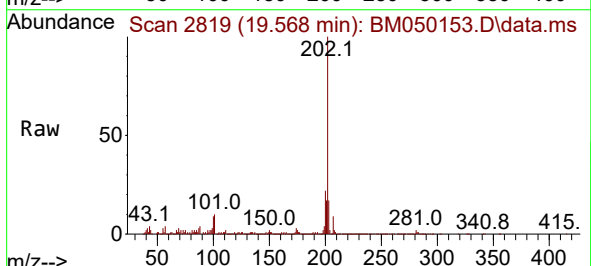
Tgt Ion:202 Resp: 356950

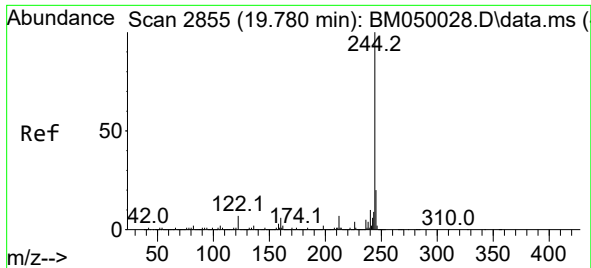
Ion Ratio Lower Upper

202 100

200 21.6 16.7 25.1

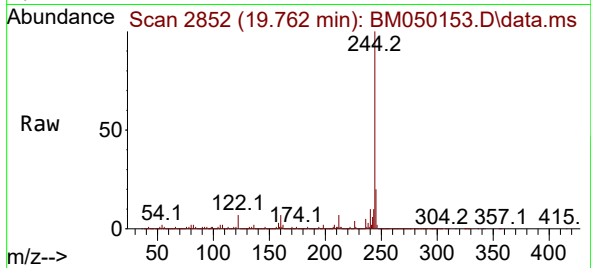
203 16.8 14.1 21.1





#79
 Terphenyl-d14
 Concen: 35.404 ng
 RT: 19.762 min Scan# 21
 Delta R.T. -0.018 min
 Lab File: BM050153.D
 Acq: 08 May 2025 19:17

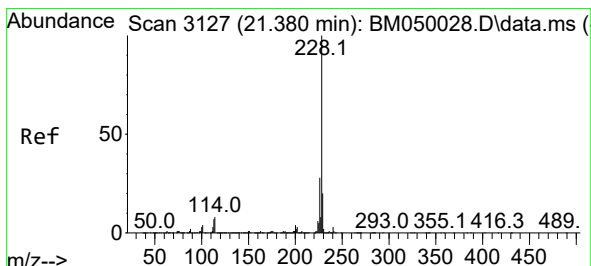
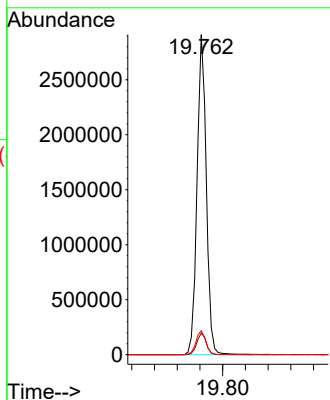
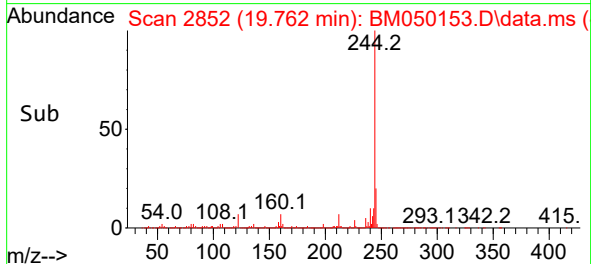
Instrument :
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 ClientSampleId :
 WC-B-1



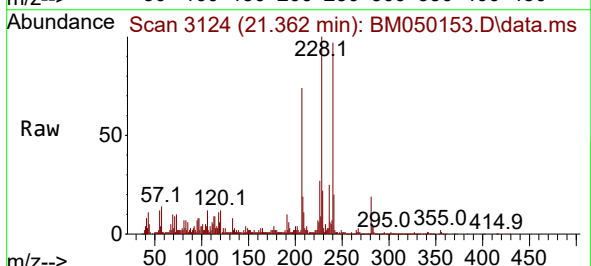
Tgt Ion:244 Resp: 3309090
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.6 8.4
 122 7.5 5.6 8.4

Manual Integrations
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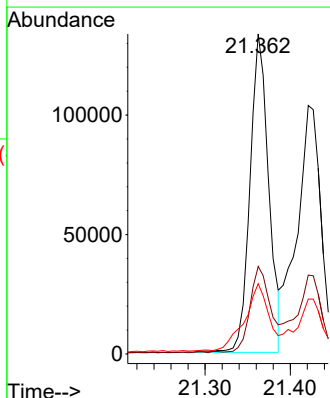
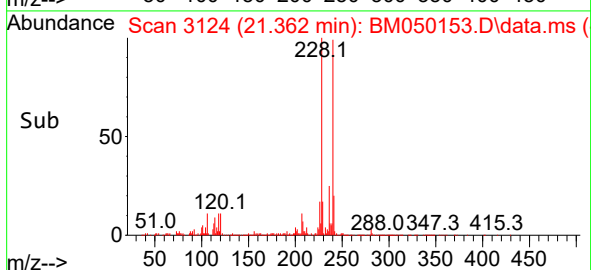
Reviewed By :Rahul Chavli 05/09/2025
 Supervised By :Jagrut Upadhyay 05/09/2025

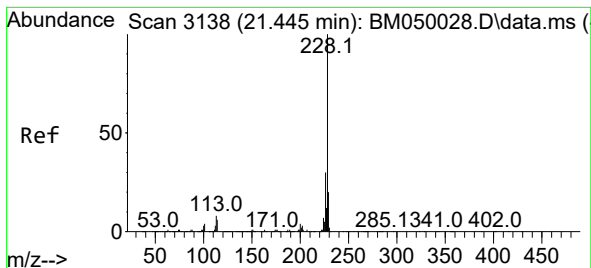


#81
 Benzo(a)anthracene
 Concen: 2.136 ng
 RT: 21.362 min Scan# 3124
 Delta R.T. -0.018 min
 Lab File: BM050153.D
 Acq: 08 May 2025 19:17



Tgt Ion:228 Resp: 203447
 Ion Ratio Lower Upper
 228 100
 226 27.3 22.1 33.1
 229 22.0 15.7 23.5





#83

Chrysene

Concen: 2.387 ng m

RT: 21.421 min Scan# 3138

Delta R.T. -0.024 min

Lab File: BM050153.D

Acq: 08 May 2025 19:17

Instrument :

BNA_M

ClientSampleId :

WC-B-1

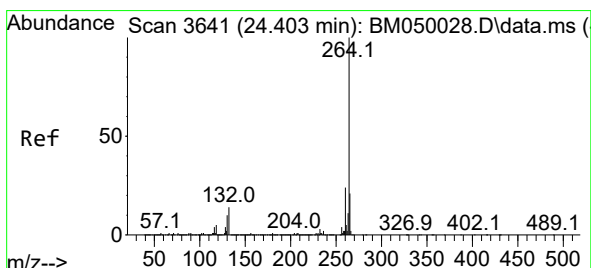
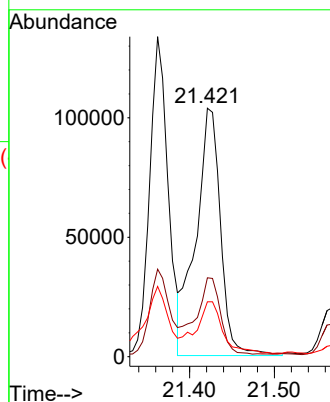
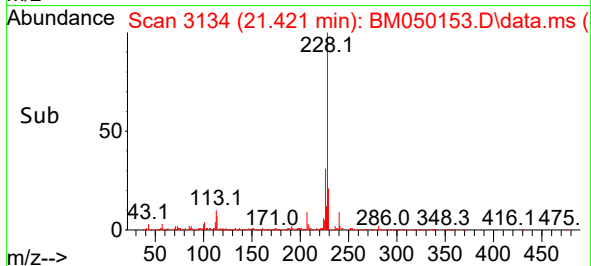
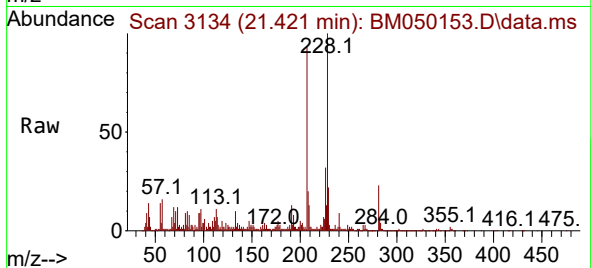
Tgt Ion:	228	Resp:	21041
Ion Ratio	Lower	Upper	
228	100		
226	31.8	24.2	36.2
229	22.1	15.7	23.5

Manual Integrations

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Reviewed By :Rahul Chavli 05/09/2025

Supervised By :Jagrut Upadhyay 05/09/2025



#86

Perylene-d12

Concen: 20.000 ng

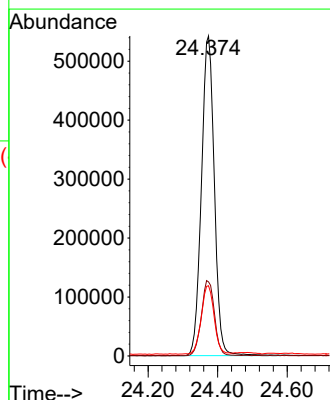
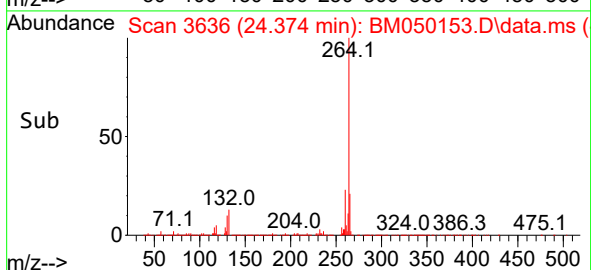
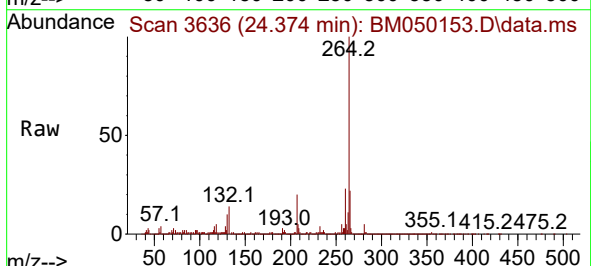
RT: 24.374 min Scan# 3636

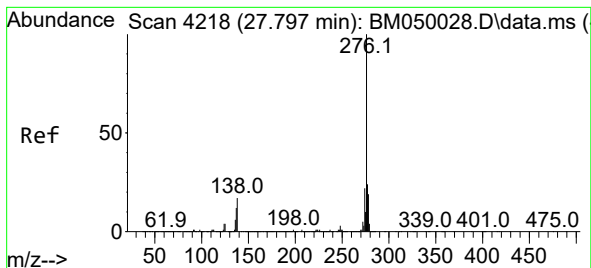
Delta R.T. -0.029 min

Lab File: BM050153.D

Acq: 08 May 2025 19:17

Tgt Ion:	264	Resp:	1398074
Ion Ratio	Lower	Upper	
264	100		
260	23.2	18.8	28.2
265	21.9	17.0	25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.122 ng

RT: 27.756 min Scan# 4211

Delta R.T. -0.041 min

Lab File: BM050153.D

Acq: 08 May 2025 19:17

Instrument :

BNA_M

ClientSampleId :

WC-B-1

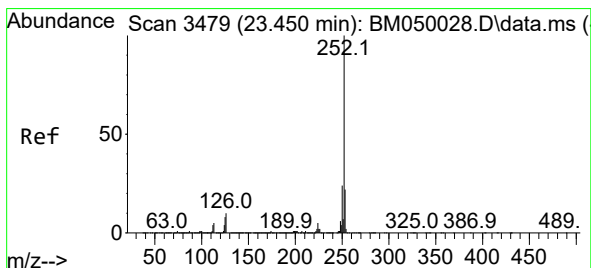
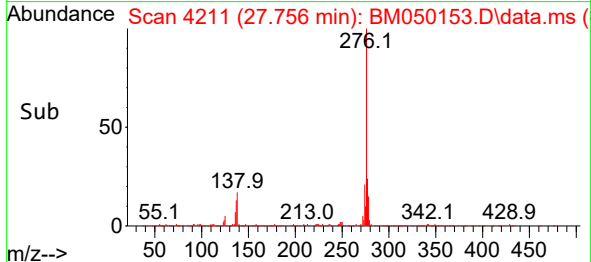
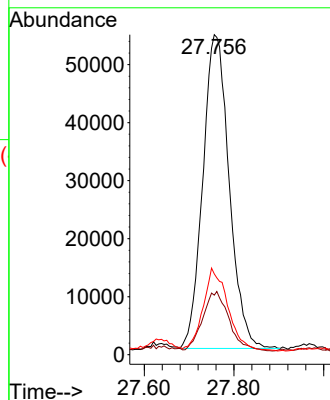
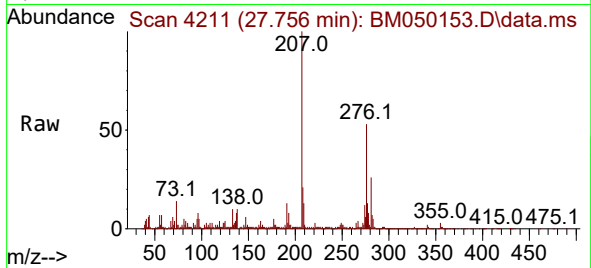
Tgt Ion:	276	Resp:	221019
Ion Ratio	Lower	Upper	
276	100		
138	18.9	16.4	24.6
277	25.2	19.8	29.8

Manual Integrations

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Reviewed By :Rahul Chavli 05/09/2025

Supervised By :Jagrut Upadhyay 05/09/2025



#88

Benzo(b)fluoranthene

Concen: 3.983 ng

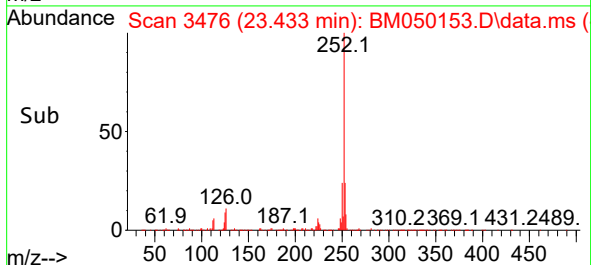
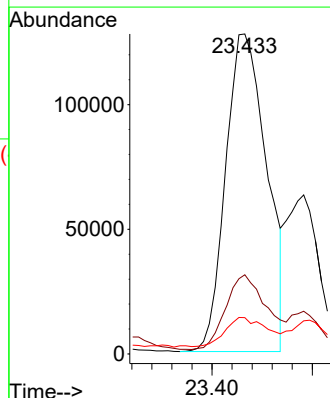
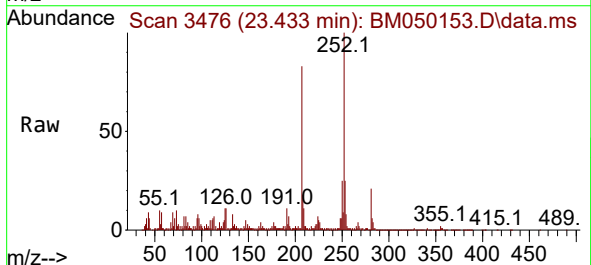
RT: 23.433 min Scan# 3476

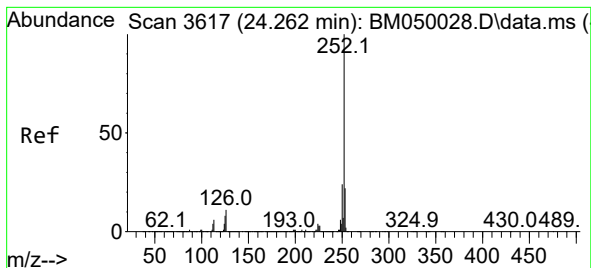
Delta R.T. -0.018 min

Lab File: BM050153.D

Acq: 08 May 2025 19:17

Tgt Ion:	252	Resp:	362093
Ion Ratio	Lower	Upper	
252	100		
253	24.8	17.7	26.5
125	11.4	6.1	9.1





#90

Benzo(a)pyrene

Concen: 3.480 ng

RT: 24.233 min Scan# 30

Delta R.T. -0.029 min

Lab File: BM050153.D

Acq: 08 May 2025 19:17

Instrument :

BNA_M

ClientSampleId :

WC-B-1

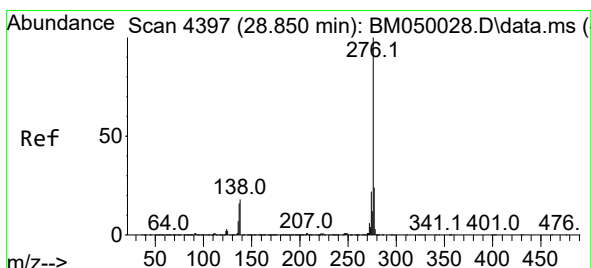
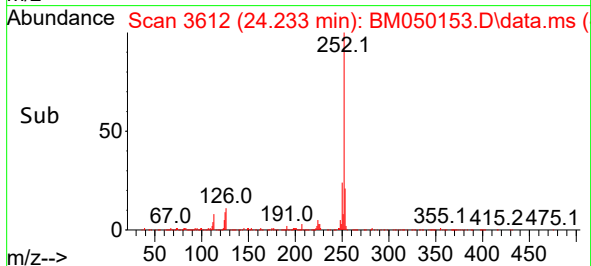
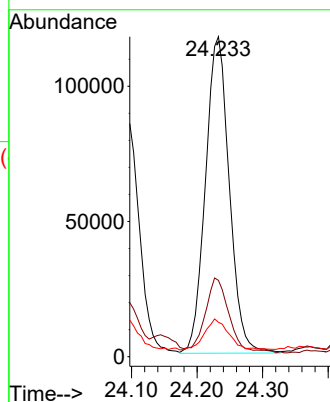
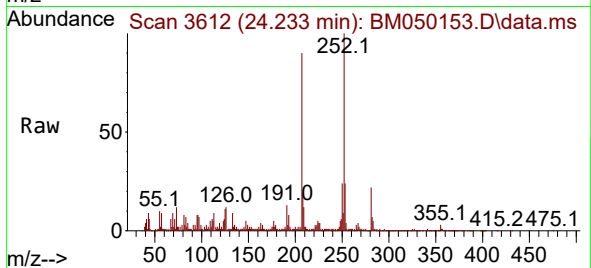
Tgt Ion:252 Resp: 29637
 Ion Ratio Lower Upper
 252 100
 253 23.9 17.4 26.0
 125 10.7 6.6 9.8

Manual Integrations

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Reviewed By :Rahul Chavli 05/09/2025

Supervised By :Jagrut Upadhyay 05/09/2025



#92

Benzo(g,h,i)perylene

Concen: 2.857 ng

RT: 28.815 min Scan# 4391

Delta R.T. -0.035 min

Lab File: BM050153.D

Acq: 08 May 2025 19:17

Tgt Ion:276 Resp: 232260
 Ion Ratio Lower Upper
 276 100
 277 24.2 19.1 28.7
 138 18.4 14.3 21.5

