

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
 Data File : BM050074.D
 Acq On : 01 May 2025 21:18
 Operator : RC/JU
 Sample : Q1901-03 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 B-170-SB01

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/02/2025
 Supervised By :Jagrut Upadhyay 05/02/2025

Quant Time: May 02 01:13:07 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 18:09:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.751	152	274480	20.000	ng	-0.02
21) Naphthalene-d8	10.539	136	1008897	20.000	ng	-0.02
39) Acenaphthene-d10	14.392	164	706272	20.000	ng	-0.02
64) Phenanthrene-d10	17.145	188	1455099	20.000	ng	-0.01
76) Chrysene-d12	21.380	240	1407668	20.000	ng	-0.02
86) Perylene-d12	24.374	264	1408737	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.346	112	250744	15.996	ng	-0.01
7) Phenol-d6	6.940	99	318577	16.170	ng	-0.01
23) Nitrobenzene-d5	8.910	82	183326	8.954	ng	-0.02
42) 2,4,6-Tribromophenol	15.892	330	166388	15.933	ng	-0.01
45) 2-Fluorobiphenyl	13.016	172	525870	8.808	ng	-0.02
79) Terphenyl-d14	19.768	244	703185	7.392	ng	-0.01
Target Compounds					Qvalue	
31) Naphthalene	10.592	128	175316	3.431	ng	99
52) Acenaphthene	14.457	154	104131	2.744	ng	99
58) Fluorene	15.445	166	148560	2.875	ng	98
71) Phenanthrene	17.186	178	2306825	28.108	ng	99
72) Anthracene	17.274	178	459861	5.537	ng	99
75) Fluoranthene	19.204	202	2273002	23.590	ng	100
78) Pyrene	19.568	202	2240960	22.670	ng	100
81) Benzo(a)anthracene	21.362	228	1056445	10.898	ng	99
83) Chrysene	21.427	228	936460	10.438	ng	98
87) Indeno(1,2,3-cd)pyrene	27.750	276	388788	3.704	ng	98
88) Benzo(b)fluoranthene	23.433	252	895654	9.776	ng	# 97
89) Benzo(k)fluoranthene	23.486	252	270817m	2.922	ng	
90) Benzo(a)pyrene	24.233	252	673773	7.852	ng	97
92) Benzo(g,h,i)perylene	28.797	276	399694	4.879	ng	100

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

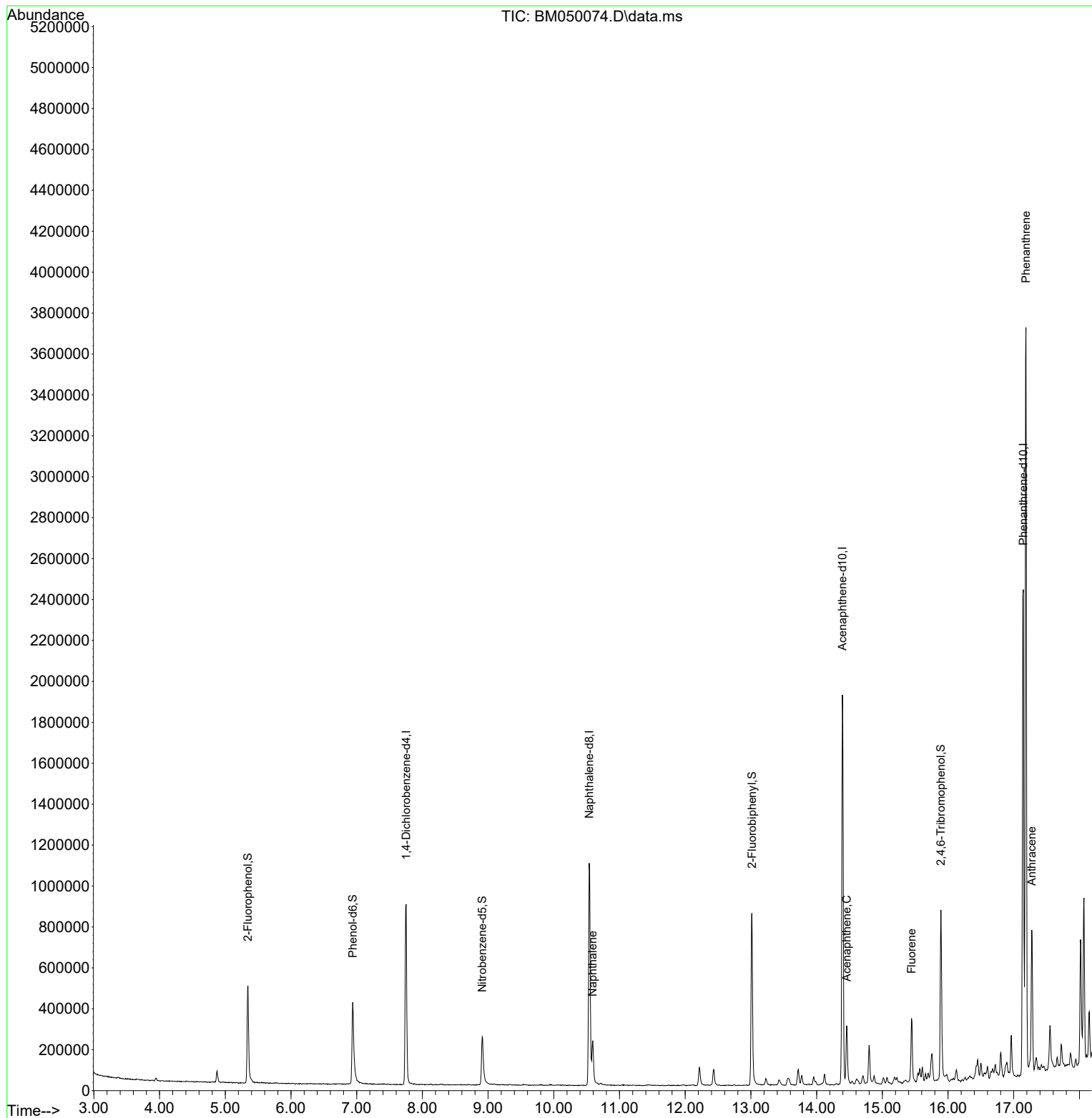
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
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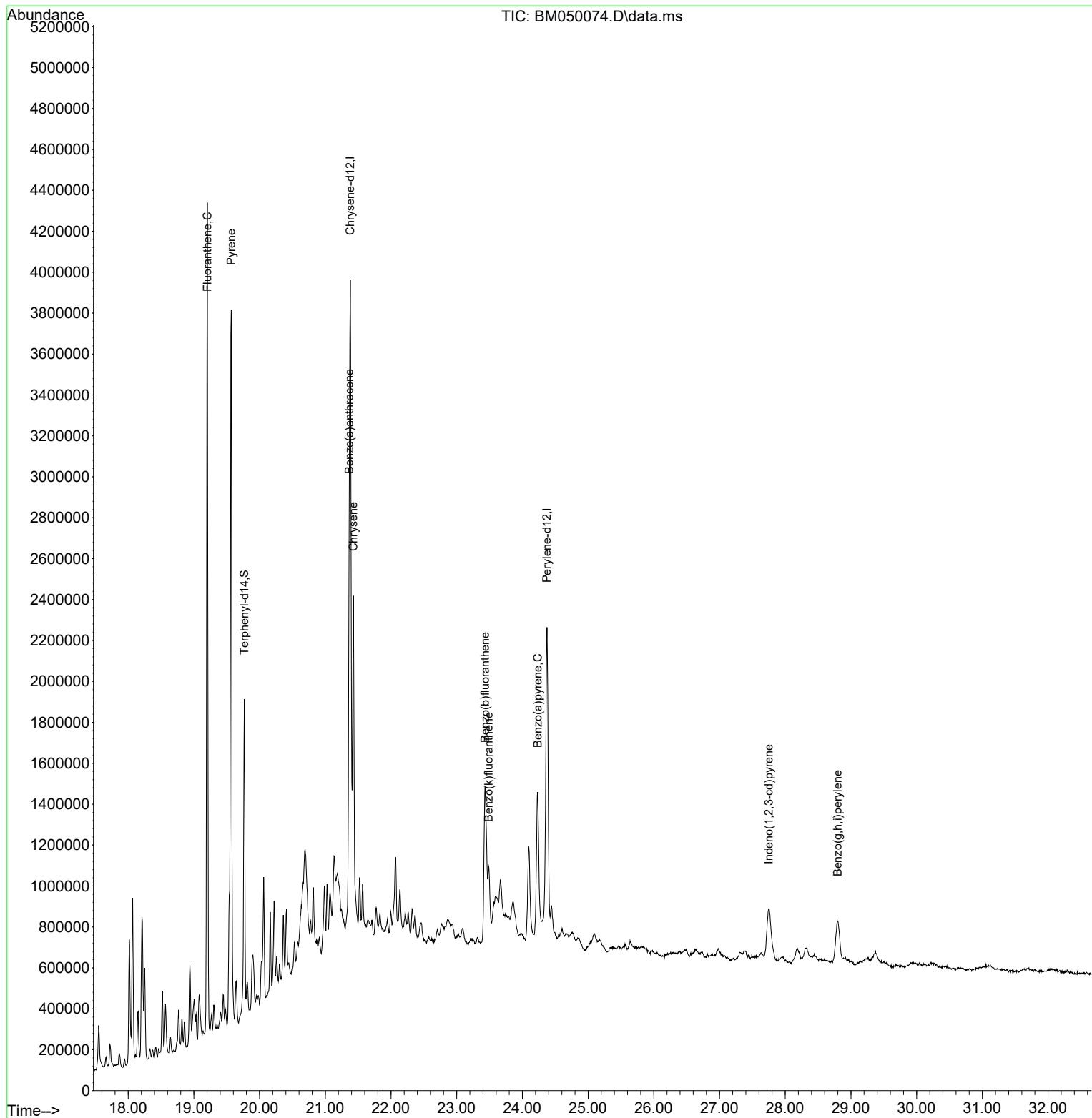
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Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
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ALS Vial : 14 Sample Multiplier: 1

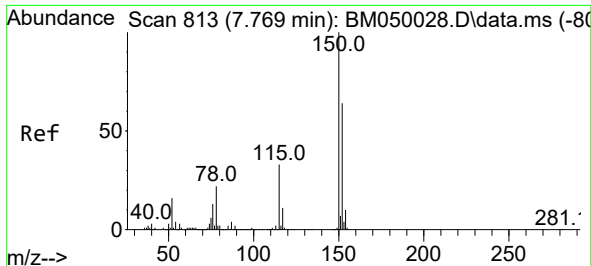
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Quant Time: May 02 01:13:07 2025
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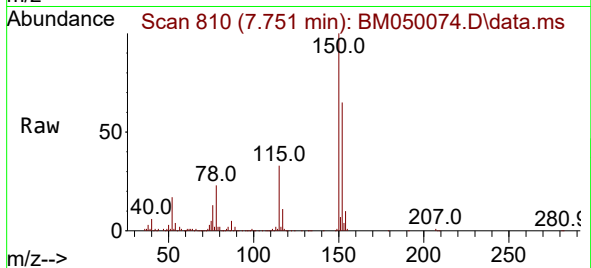
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.751 min Scan# 813
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

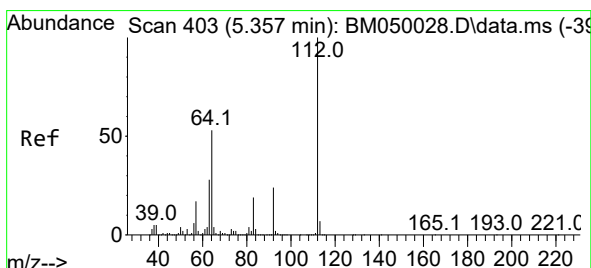
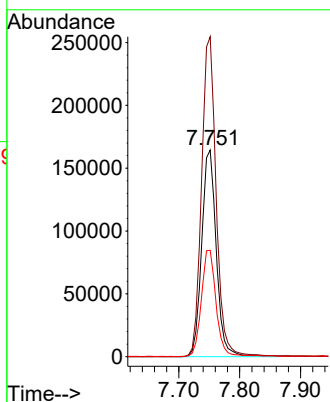
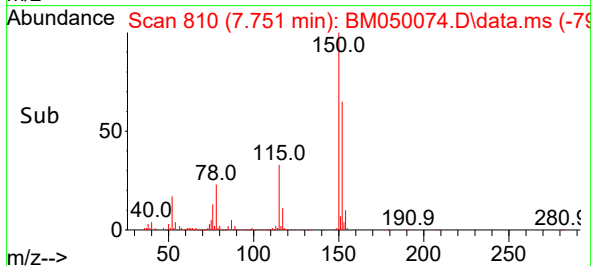
Instrument :
BNA_M
ClientSampleId :
B-170-SB01



Tgt Ion:152 Resp: 274480
Ion Ratio Lower Upper
152 100
150 154.8 124.1 186.1
115 51.5 41.2 61.8

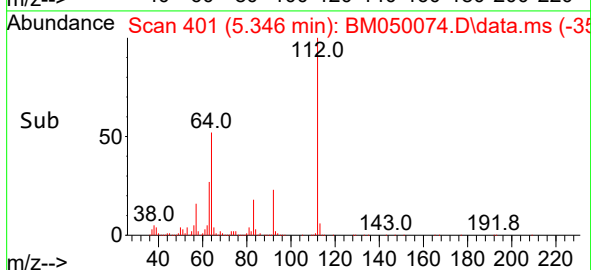
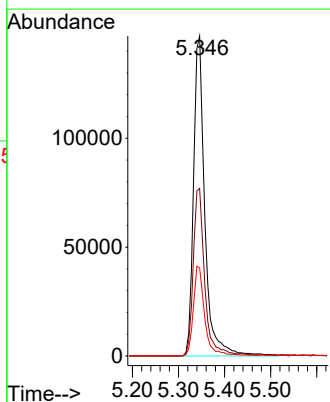
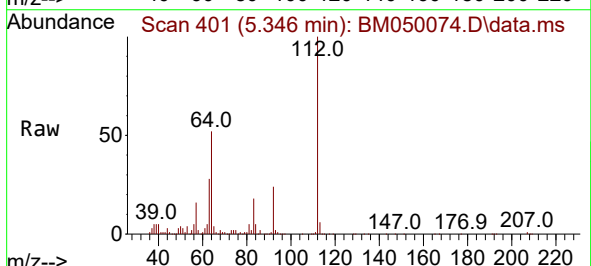
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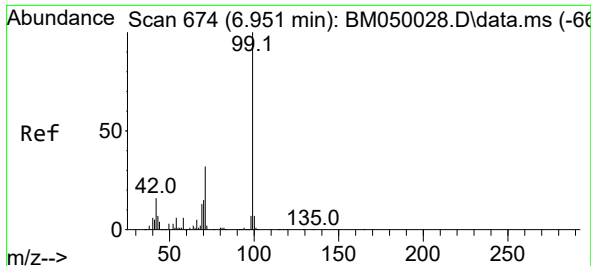
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



#5
2-Fluorophenol
Concen: 15.996 ng
RT: 5.346 min Scan# 401
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

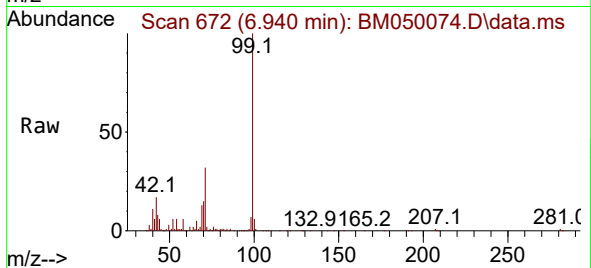
Tgt Ion:112 Resp: 250744
Ion Ratio Lower Upper
112 100
64 52.3 42.6 64.0
63 27.5 22.2 33.4





#7
Phenol-d6
Concen: 16.170 ng
RT: 6.940 min Scan# 61
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

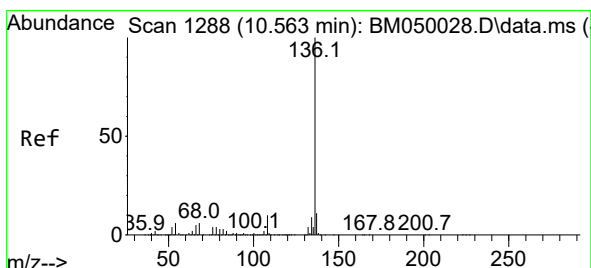
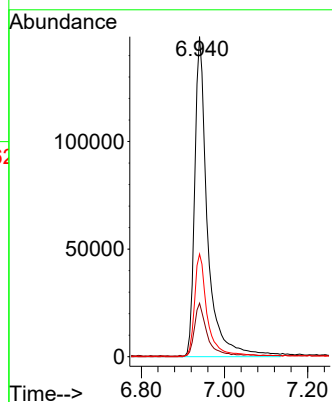
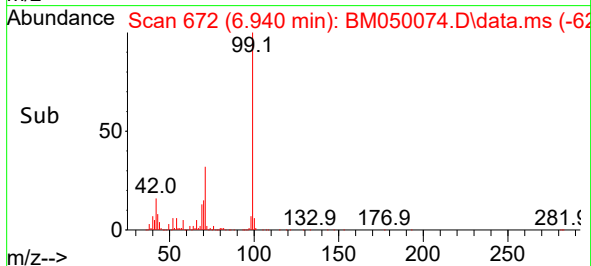
Instrument :
BNA_M
ClientSampleId :
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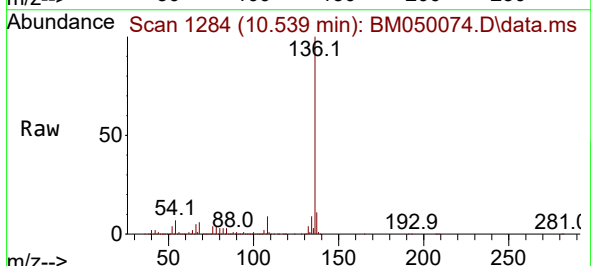
Tgt Ion: 99 Resp: 31857
Ion Ratio Lower Upper
99 100
42 16.7 13.0 19.4
71 32.1 25.6 38.4

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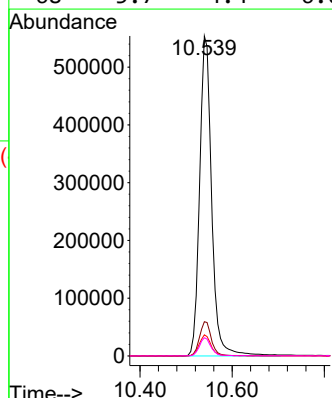
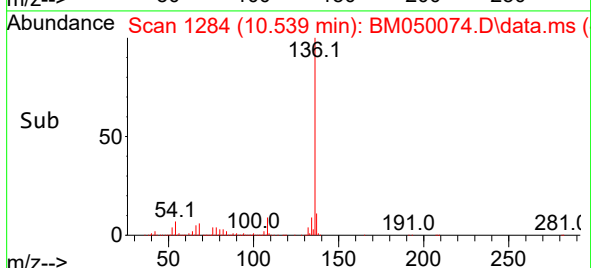
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

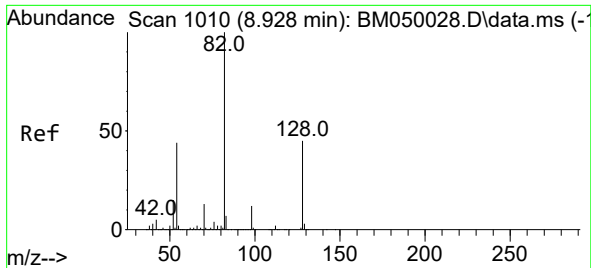


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.539 min Scan# 1284
Delta R.T. -0.023 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18



Tgt Ion:136 Resp: 1008897
Ion Ratio Lower Upper
136 100
137 10.7 8.9 13.3
54 6.6 5.1 7.7
68 5.7 4.4 6.6





#23
Nitrobenzene-d5
Concen: 8.954 ng
RT: 8.910 min Scan# 1010
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Instrument :

BNA_M

ClientSampleId :

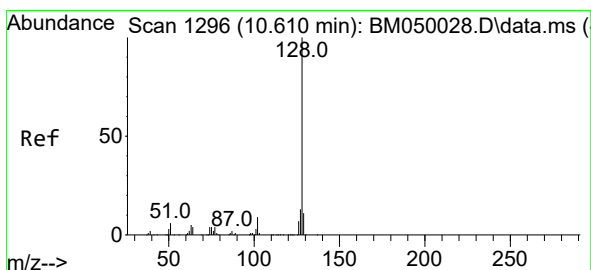
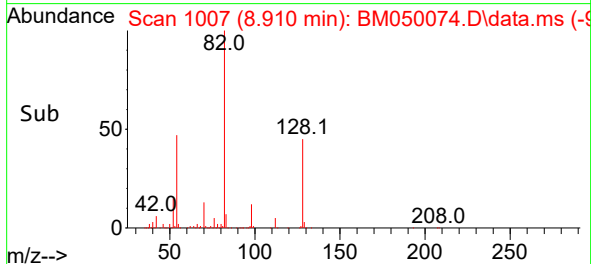
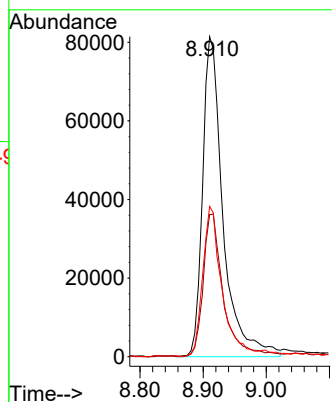
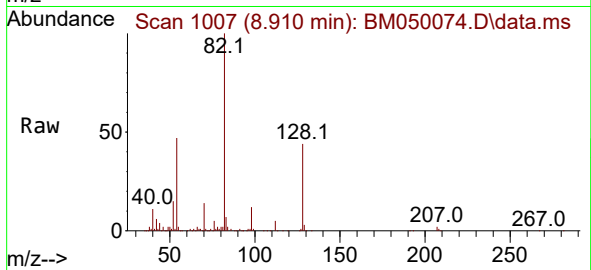
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Tgt Ion: 82 Resp: 183320
Ion Ratio Lower Upper
82 100
128 44.4 35.7 53.5
54 47.0 35.4 53.2

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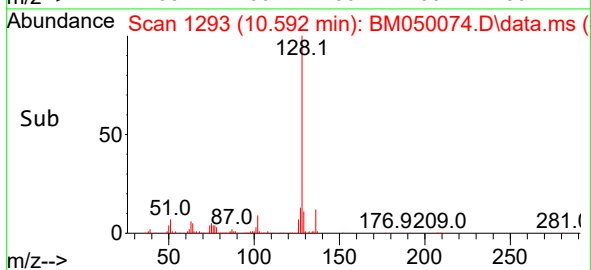
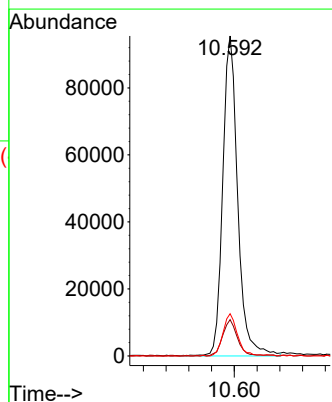
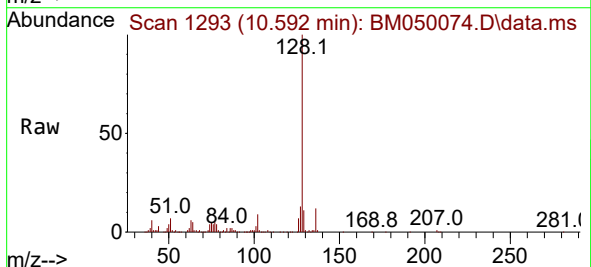
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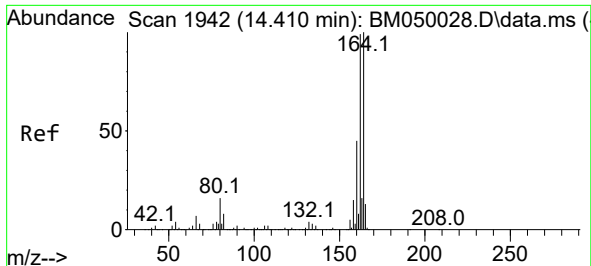
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



#31
Naphthalene
Concen: 3.431 ng
RT: 10.592 min Scan# 1293
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

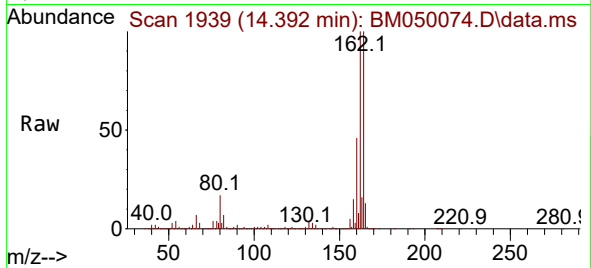
Tgt Ion:128 Resp: 175316
Ion Ratio Lower Upper
128 100
129 11.4 8.8 13.2
127 13.2 10.4 15.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.392 min Scan# 1939
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

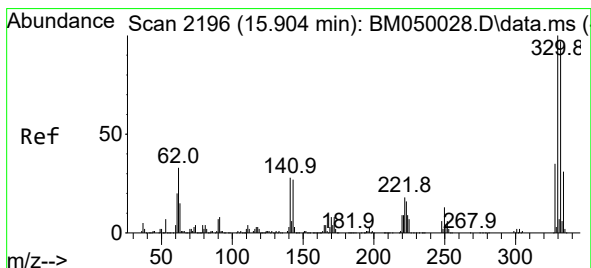
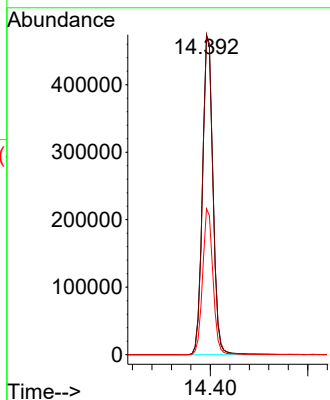
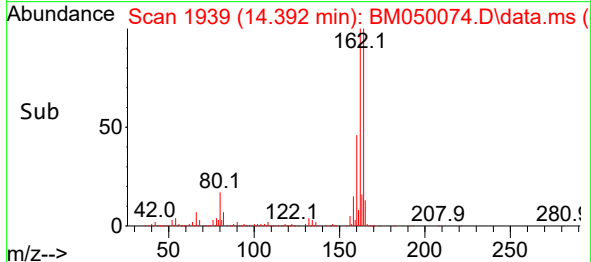
Instrument :
BNA_M
ClientSampleId :
B-170-SB01



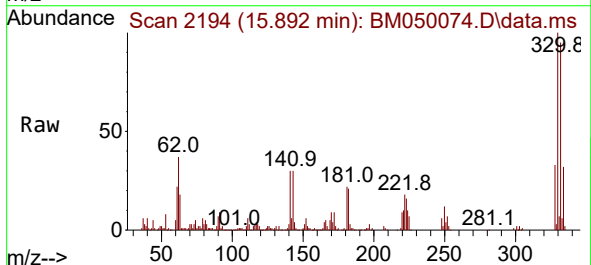
Tgt Ion:164 Resp: 706272
Ion Ratio Lower Upper
164 100
162 100.1 79.4 119.0
160 45.7 36.2 54.4

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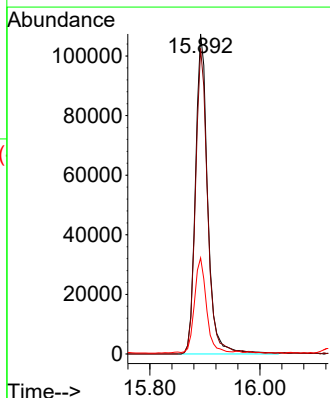
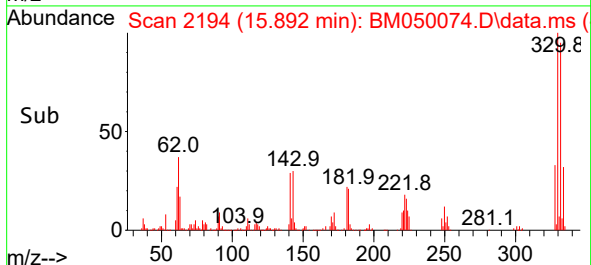
Reviewed By :Rahul Chavli 05/02/2025
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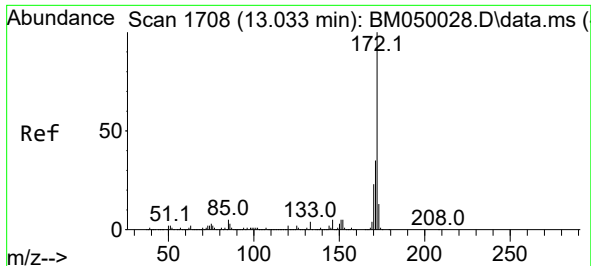


#42
2,4,6-Tribromophenol
Concen: 15.933 ng
RT: 15.892 min Scan# 2194
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18



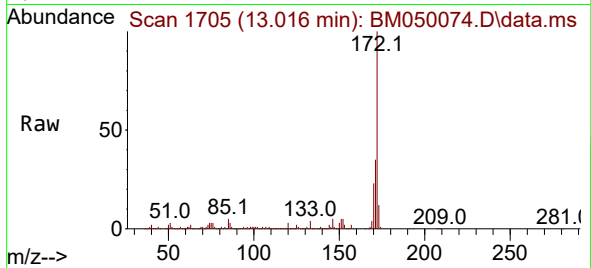
Tgt Ion:330 Resp: 166388
Ion Ratio Lower Upper
330 100
332 95.1 77.3 115.9
141 29.5 22.5 33.7





#45
2-Fluorobiphenyl
Concen: 8.808 ng
RT: 13.016 min Scan# 1705
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

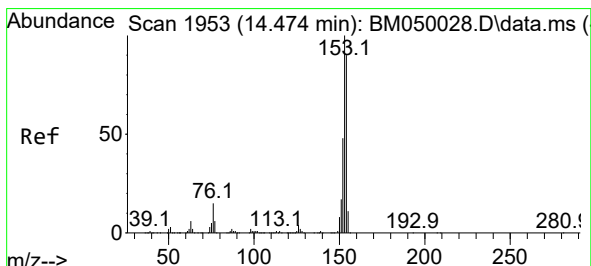
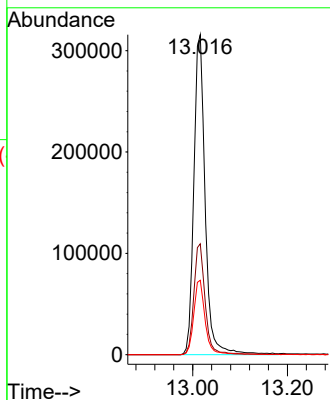
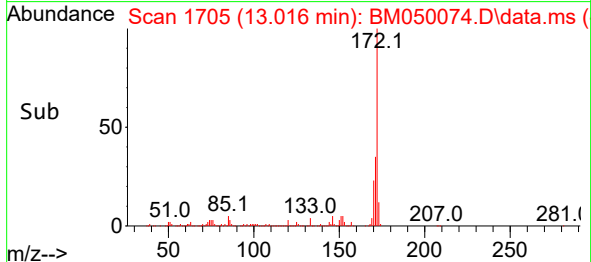
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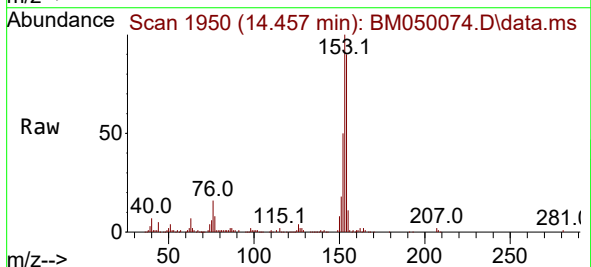
Tgt Ion:172 Resp: 525870
Ion Ratio Lower Upper
172 100
171 34.7 27.8 41.6
170 23.3 18.6 28.0

Manual Integrations
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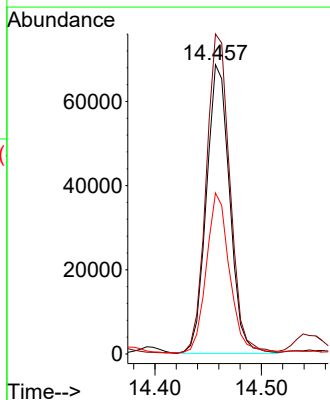
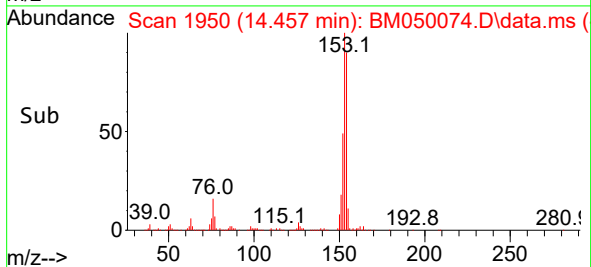
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

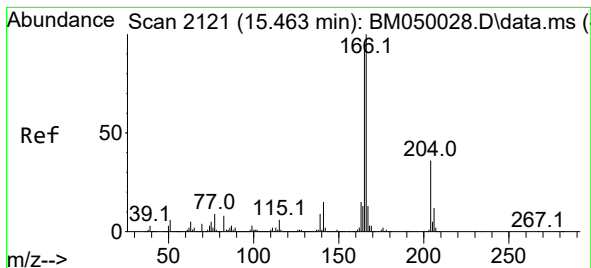


#52
Acenaphthene
Concen: 2.744 ng
RT: 14.457 min Scan# 1950
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18



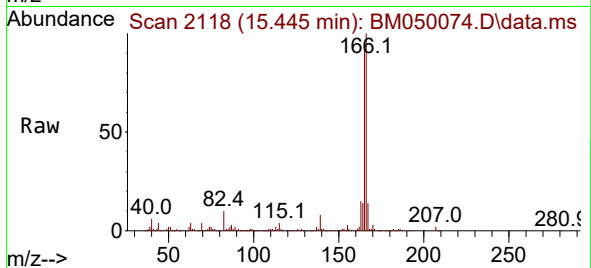
Tgt Ion:154 Resp: 104131
Ion Ratio Lower Upper
154 100
153 110.6 89.0 133.4
152 55.6 43.0 64.6





#58
Fluorene
Concen: 2.875 ng
RT: 15.445 min Scan# 2121
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

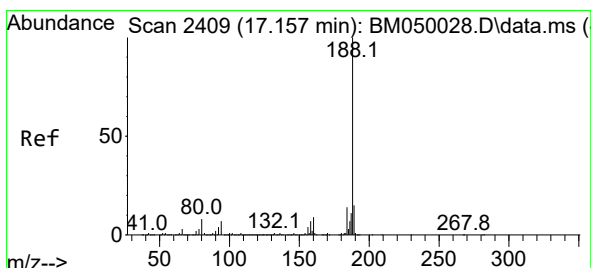
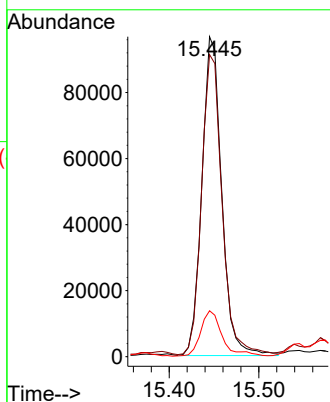
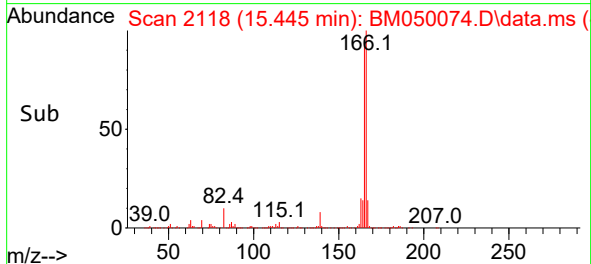
Instrument :
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B-170-SB01



Tgt Ion:166 Resp: 148560
Ion Ratio Lower Upper
166 100
165 94.4 76.6 115.0
167 14.4 10.6 16.0

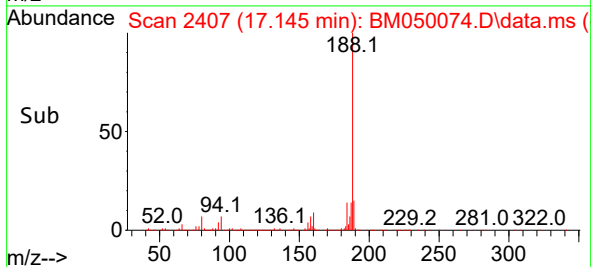
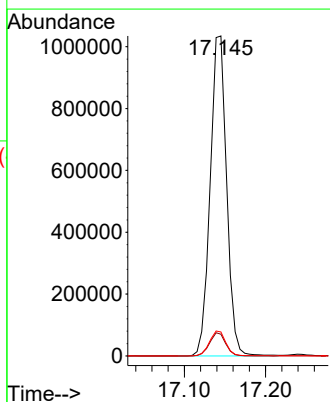
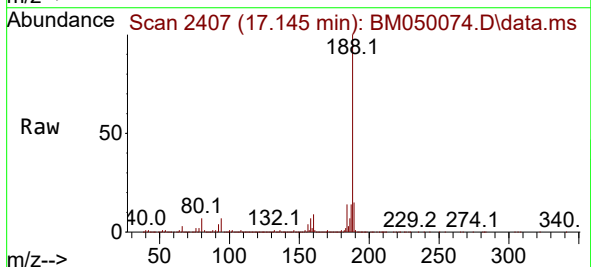
Manual Integrations
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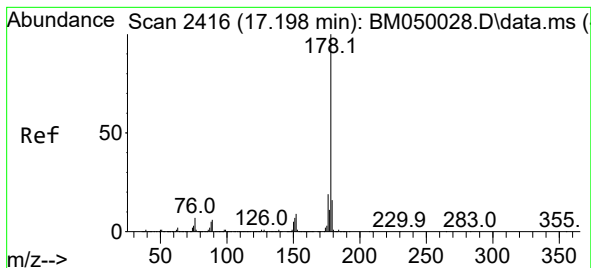
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.145 min Scan# 2407
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:188 Resp: 1455099
Ion Ratio Lower Upper
188 100
94 6.8 5.7 8.5
80 7.5 6.2 9.4





#71

Phenanthrene

Concen: 28.108 ng

RT: 17.186 min Scan# 2416

Delta R.T. -0.012 min

Lab File: BM050074.D

Acq: 01 May 2025 21:18

Instrument :

BNA_M

ClientSampleId :

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Tgt Ion:178 Resp: 2306825

Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

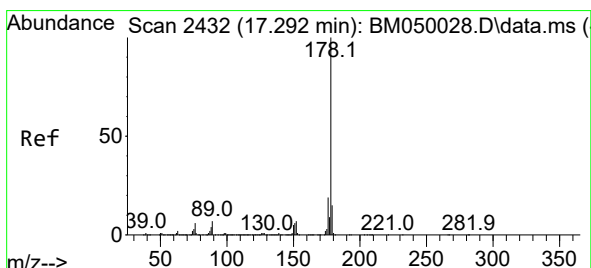
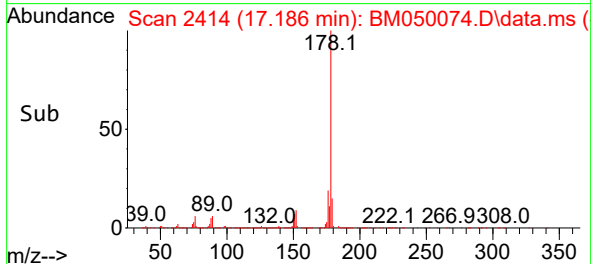
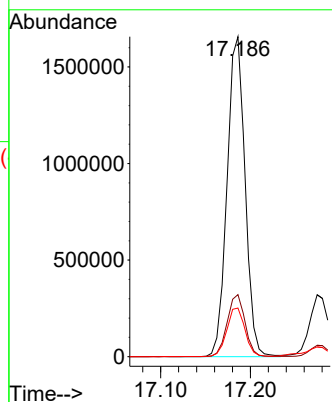
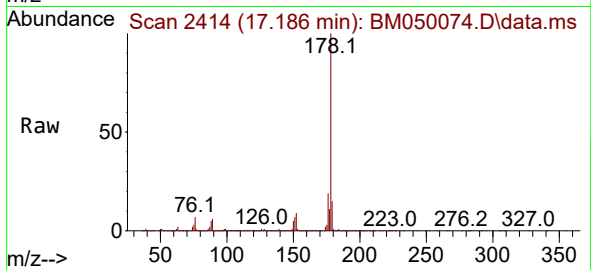
179 15.2 12.4 18.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/02/2025

Supervised By :Jagrut Upadhyay 05/02/2025



#72

Anthracene

Concen: 5.537 ng

RT: 17.274 min Scan# 2429

Delta R.T. -0.018 min

Lab File: BM050074.D

Acq: 01 May 2025 21:18

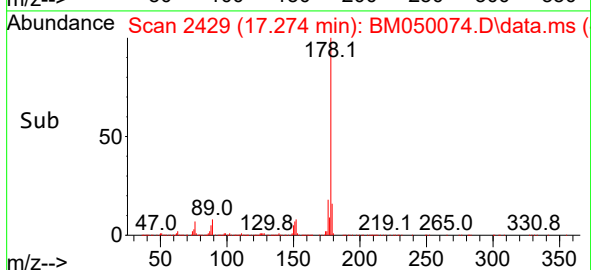
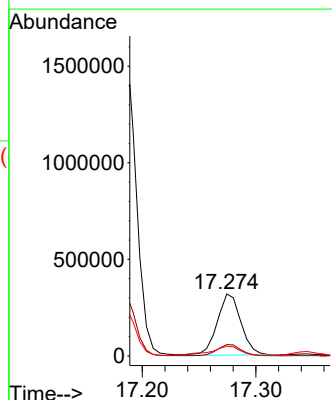
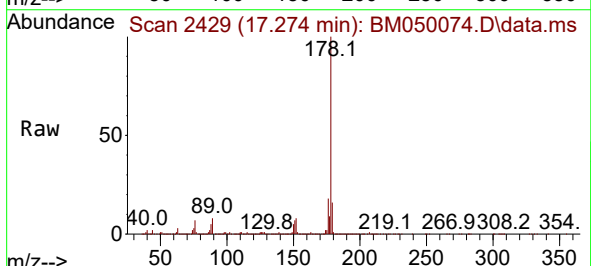
Tgt Ion:178 Resp: 459861

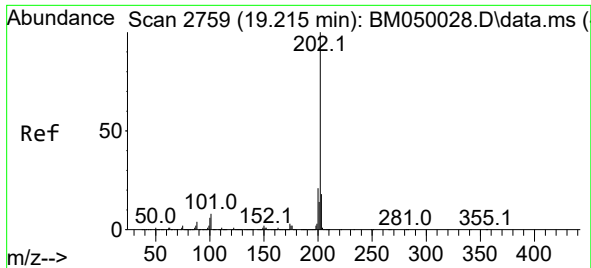
Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.4

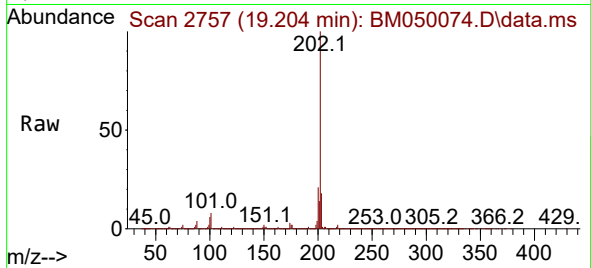
179 15.8 12.2 18.4





#75
Fluoranthene
Concen: 23.590 ng
RT: 19.204 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

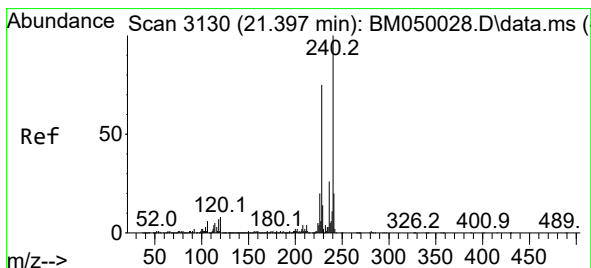
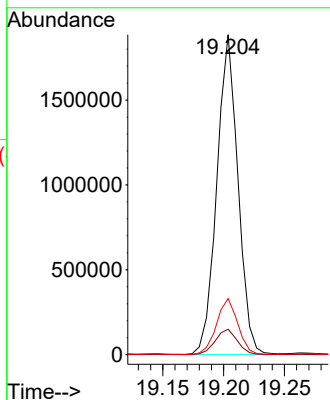
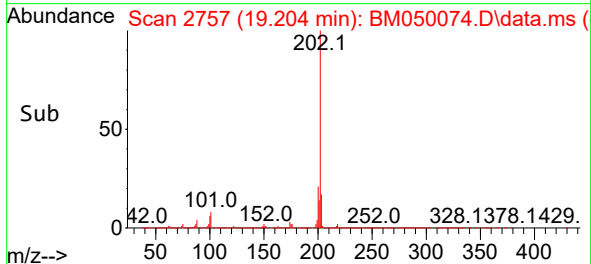
Instrument :
BNA_M
ClientSampleId :
B-170-SB01



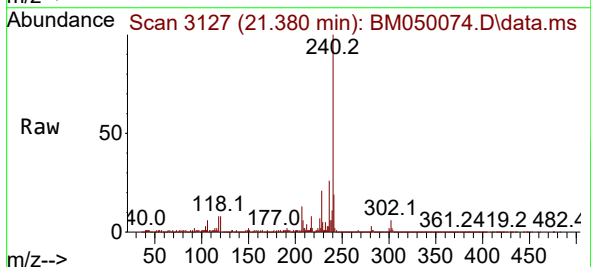
Tgt Ion:202 Resp: 227300
Ion Ratio Lower Upper
202 100
101 7.9 0.0 28.0
203 17.5 0.0 37.7

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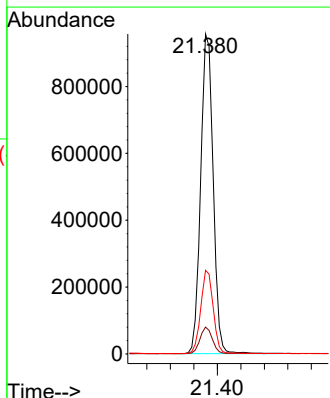
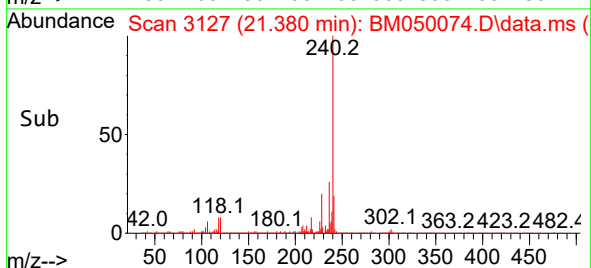
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

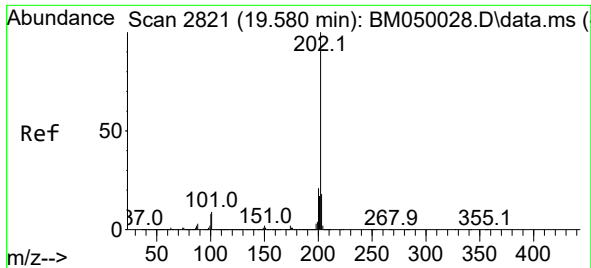


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.380 min Scan# 3127
Delta R.T. -0.017 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18



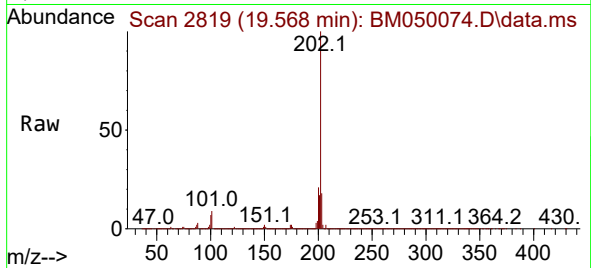
Tgt Ion:240 Resp: 1407668
Ion Ratio Lower Upper
240 100
120 8.4 6.5 9.7
236 26.2 20.9 31.3





#78
 Pyrene
 Concen: 22.670 ng
 RT: 19.568 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BM050074.D
 Acq: 01 May 2025 21:18

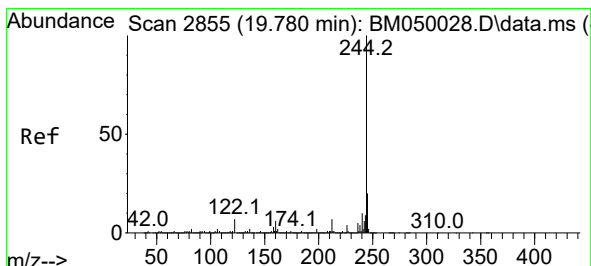
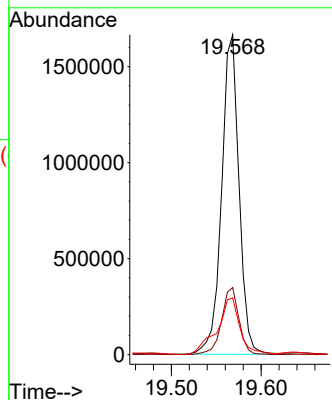
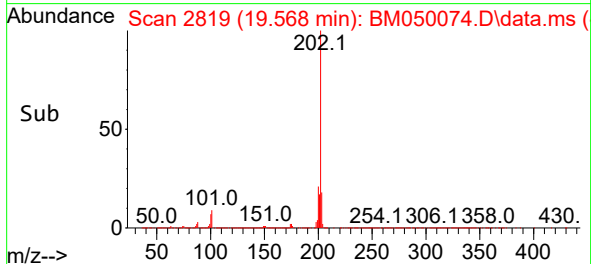
Instrument :
 BNA_M
 ClientSampleId :
 B-170-SB01



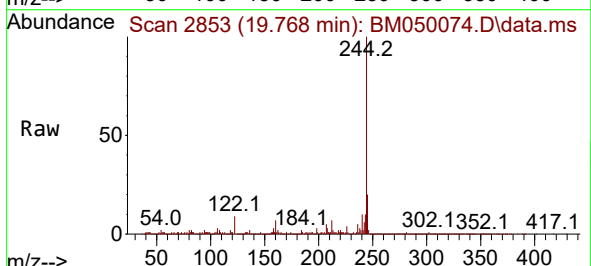
Tgt Ion:202 Resp: 2240960
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.7 25.1
 203 17.8 14.1 21.1

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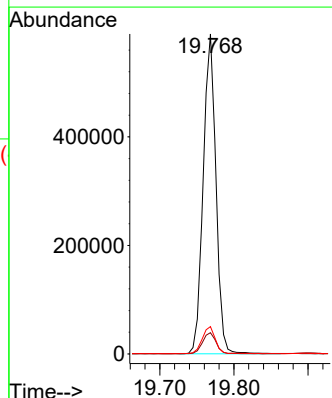
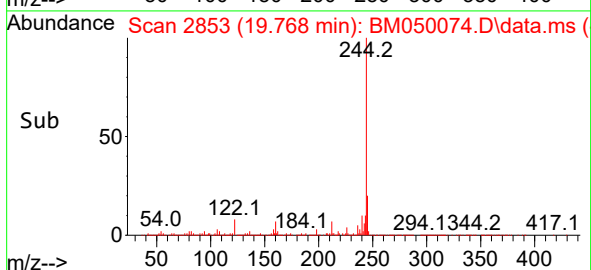
Reviewed By :Rahul Chavli 05/02/2025
 Supervised By :Jagrut Upadhyay 05/02/2025

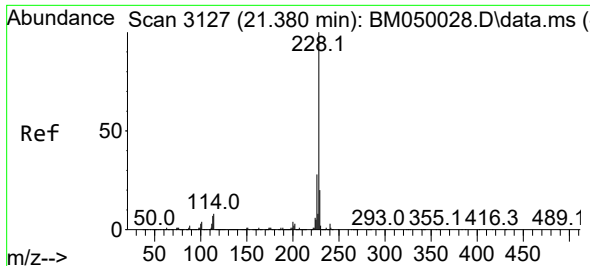


#79
 Terphenyl-d14
 Concen: 7.392 ng
 RT: 19.768 min Scan# 2853
 Delta R.T. -0.012 min
 Lab File: BM050074.D
 Acq: 01 May 2025 21:18



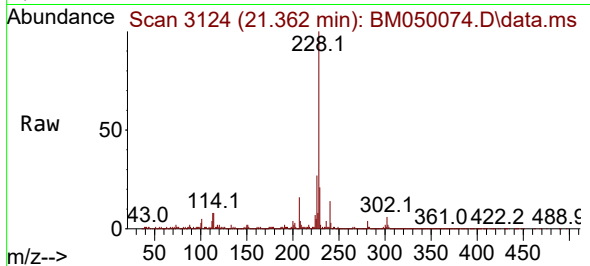
Tgt Ion:244 Resp: 703185
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.6 8.4
 122 8.5 5.6 8.4#





#81
Benzo(a)anthracene
Concen: 10.898 ng
RT: 21.362 min Scan# 3124
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

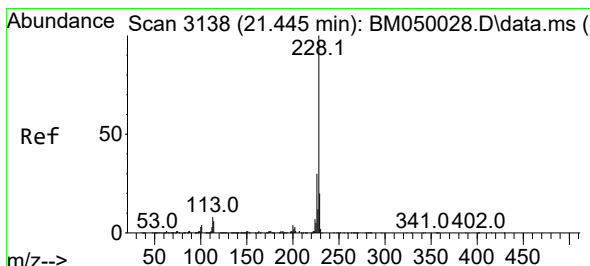
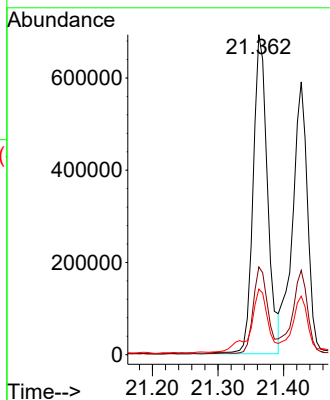
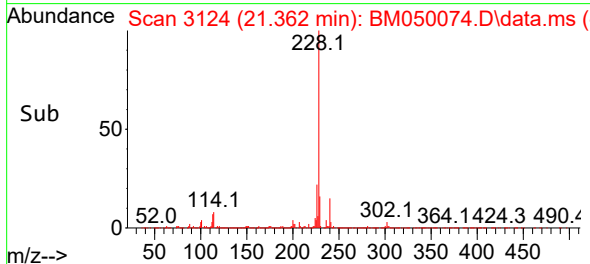
Instrument :
BNA_M
ClientSampleId :
B-170-SB01



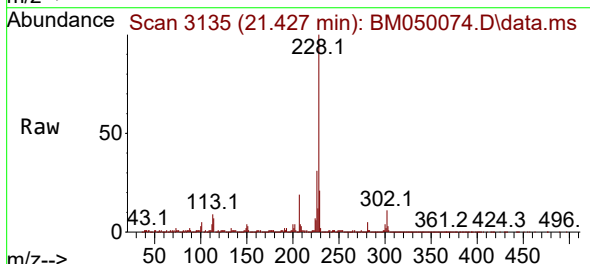
Tgt Ion:228 Resp: 105644
Ion Ratio Lower Upper
228 100
226 27.4 22.1 33.1
229 20.5 15.7 23.5

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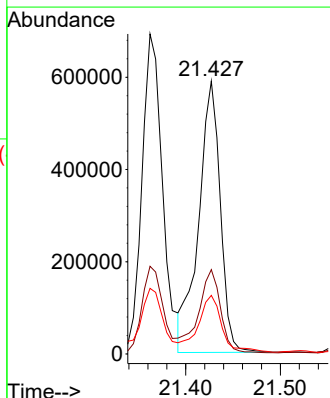
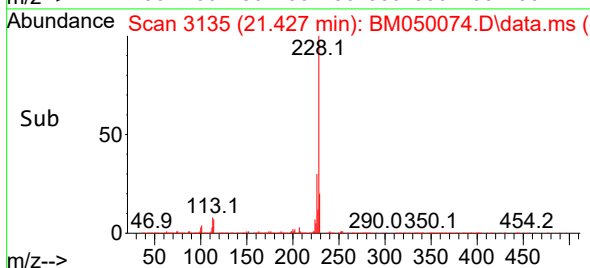
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

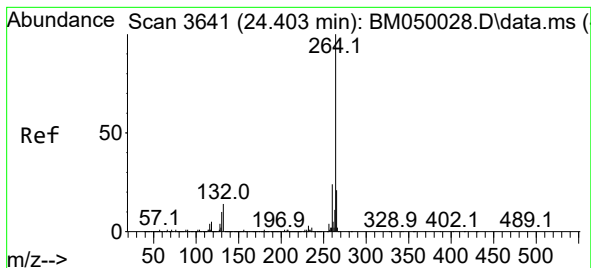


#83
Chrysene
Concen: 10.438 ng
RT: 21.427 min Scan# 3135
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18



Tgt Ion:228 Resp: 936460
Ion Ratio Lower Upper
228 100
226 30.9 24.2 36.2
229 21.5 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.374 min Scan# 3

Delta R.T. -0.029 min

Lab File: BM050074.D

Acq: 01 May 2025 21:18

Instrument :

BNA_M

ClientSampleId :

B-170-SB01

Tgt Ion:264 Resp: 140873

Ion Ratio Lower Upper

264 100

260 23.7 18.8 28.2

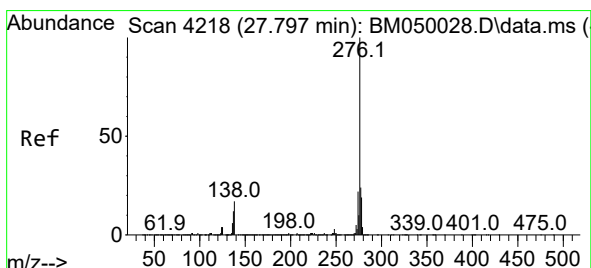
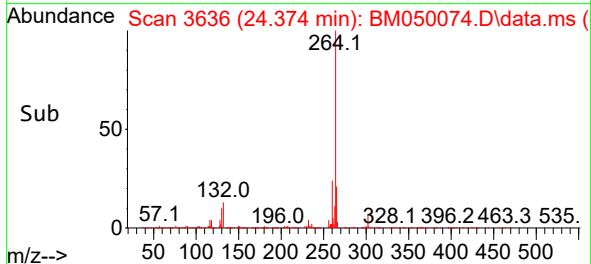
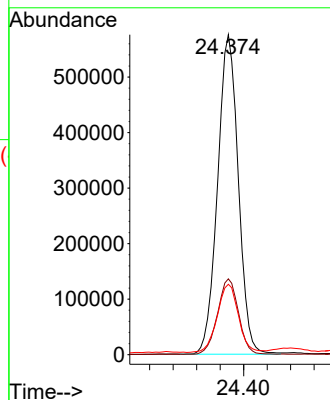
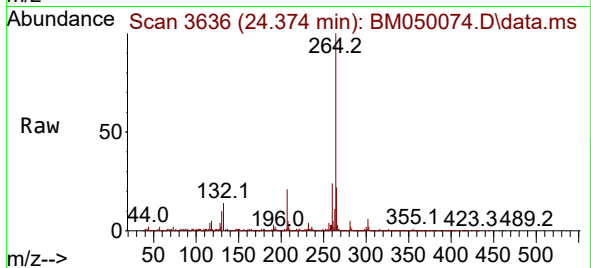
265 22.0 17.0 25.4

Manual Integrations

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#87

Indeno(1,2,3-cd)pyrene

Concen: 3.704 ng

RT: 27.750 min Scan# 4210

Delta R.T. -0.047 min

Lab File: BM050074.D

Acq: 01 May 2025 21:18

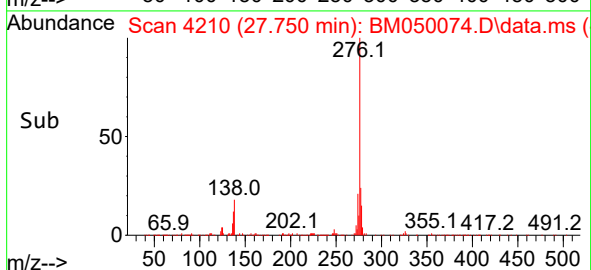
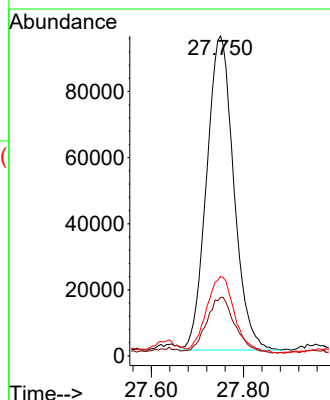
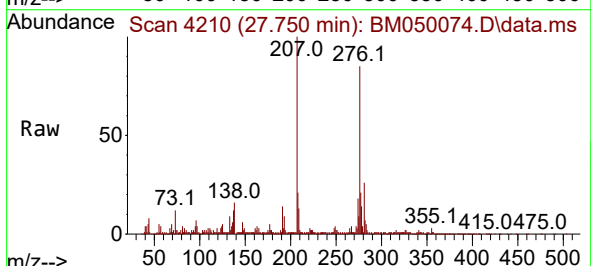
Tgt Ion:276 Resp: 388788

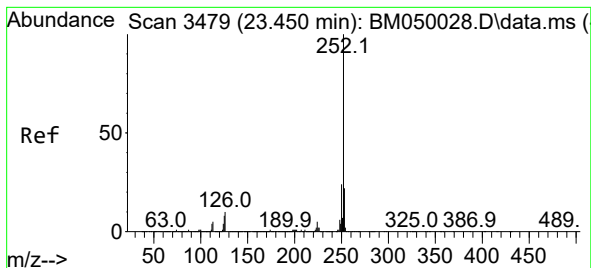
Ion Ratio Lower Upper

276 100

138 19.1 16.4 24.6

277 25.6 19.8 29.8





#88

Benzo(b)fluoranthene

Concen: 9.776 ng

RT: 23.433 min Scan# 3479

Delta R.T. -0.018 min

Lab File: BM050074.D

Acq: 01 May 2025 21:18

Instrument :

BNA_M

ClientSampleId :

B-170-SB01

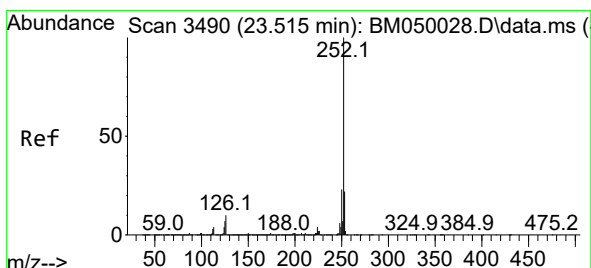
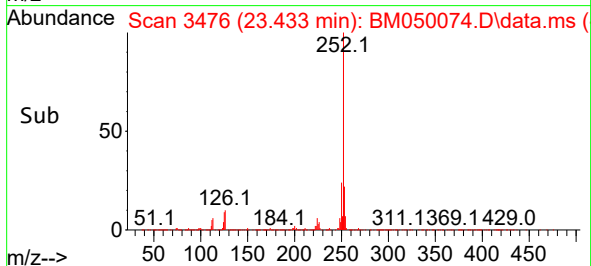
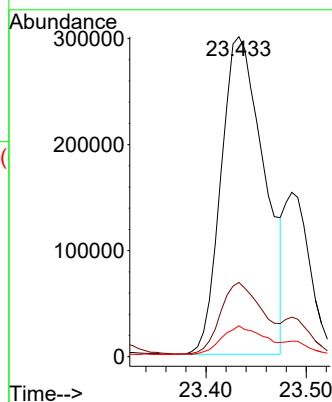
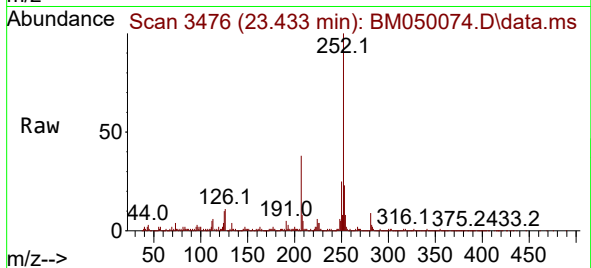
Tgt Ion:252 Resp: 895654
 Ion Ratio Lower Upper
 252 100
 253 23.2 17.7 26.5
 125 9.6 6.1 9.1

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Supervised By :Jagrut Upadhyay 05/02/2025



#89

Benzo(k)fluoranthene

Concen: 2.922 ng m

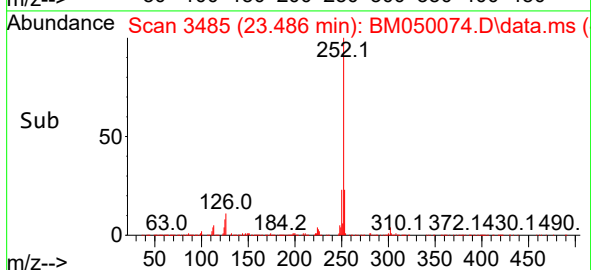
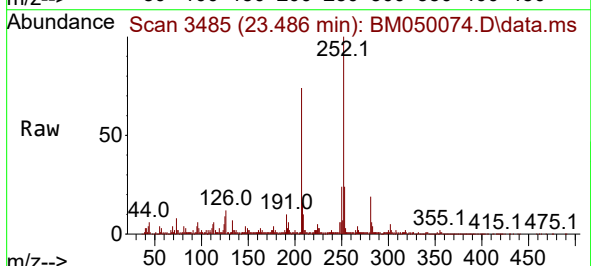
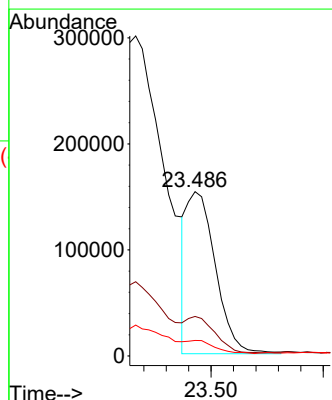
RT: 23.486 min Scan# 3485

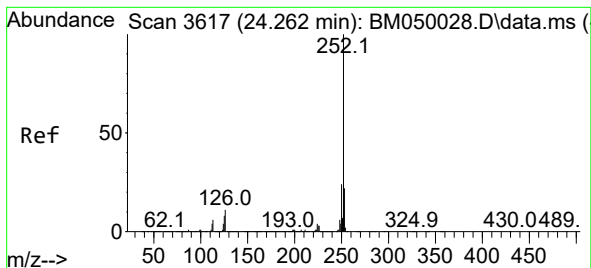
Delta R.T. -0.029 min

Lab File: BM050074.D

Acq: 01 May 2025 21:18

Tgt Ion:252 Resp: 270817
 Ion Ratio Lower Upper
 252 100
 253 24.1 17.4 26.2
 125 9.4 5.8 8.8





#90

Benzo(a)pyrene

Concen: 7.852 ng

RT: 24.233 min Scan# 3

Delta R.T. -0.029 min

Lab File: BM050074.D

Acq: 01 May 2025 21:18

Instrument :

BNA_M

ClientSampleId :

B-170-SB01

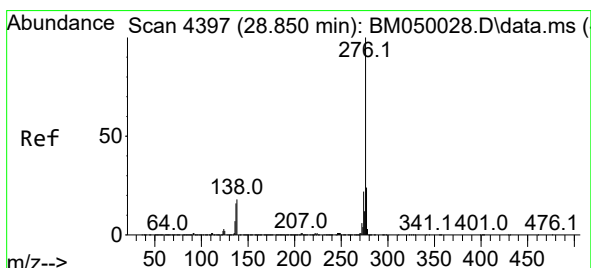
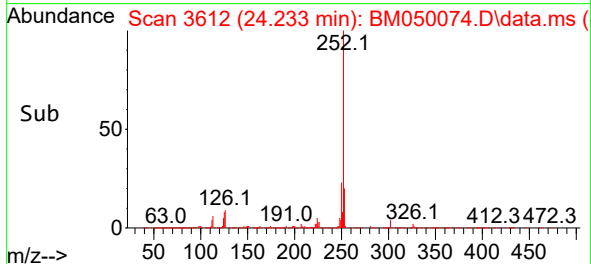
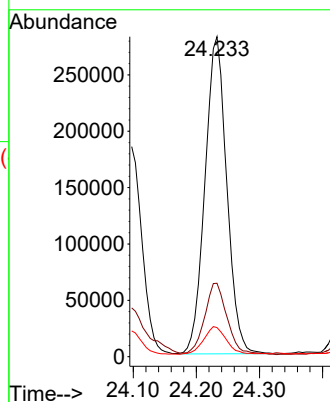
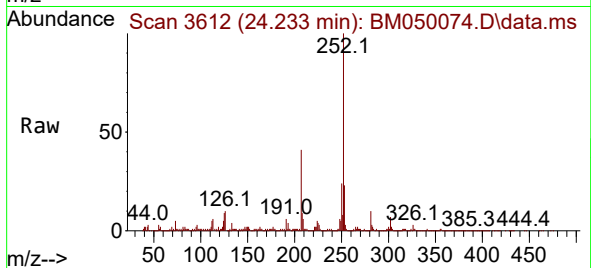
Tgt Ion:252 Resp: 67377
 Ion Ratio Lower Upper
 252 100
 253 22.9 17.4 26.0
 125 9.1 6.6 9.8

Manual Integrations

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Supervised By :Jagrut Upadhyay 05/02/2025



#92

Benzo(g,h,i)perylene

Concen: 4.879 ng

RT: 28.797 min Scan# 4388

Delta R.T. -0.053 min

Lab File: BM050074.D

Acq: 01 May 2025 21:18

Tgt Ion:276 Resp: 399694
 Ion Ratio Lower Upper
 276 100
 277 23.7 19.1 28.7
 138 18.1 14.3 21.5

