

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041125\  
 Data File : BM049905.D  
 Acq On : 11 Apr 2025 17:34  
 Operator : RC/JU  
 Sample : Q1756-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 TP-9

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 04/14/2025  
 Supervised By :Jagrut Upadhyay 04/14/2025

Quant Time: Apr 11 18:25:36 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 09 04:00:55 2025  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.775  | 152  | 341821   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.569 | 136  | 1156923  | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.416 | 164  | 739993   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.157 | 188  | 1439481  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.398 | 240  | 1406053  | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 24.392 | 264  | 1548926  | 20.000  | ng    | -0.02    |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.363  | 112  | 2005532  | 99.629  | ng    | 0.00     |
| 7) Phenol-d6                | 6.951  | 99   | 2408359  | 96.160  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.928  | 82   | 1456556  | 70.107  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.904 | 330  | 1127825  | 104.783 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.039 | 172  | 3634297  | 66.597  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.786 | 244  | 4882467  | 65.076  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 17.198 | 178  | 771111   | 9.771   | ng    | 100      |
| 72) Anthracene              | 17.292 | 178  | 217393   | 2.795   | ng    | 96       |
| 75) Fluoranthene            | 19.215 | 202  | 1053653  | 10.859  | ng    | 99       |
| 78) Pyrene                  | 19.580 | 202  | 1138502  | 11.749  | ng    | 100      |
| 81) Benzo(a)anthracene      | 21.380 | 228  | 708816   | 7.585   | ng    | 93       |
| 83) Chrysene                | 21.439 | 228  | 705947m  | 7.946   | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 27.762 | 276  | 549826   | 4.762   | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 23.445 | 252  | 934895   | 9.451   | ng    | 98       |
| 89) Benzo(k)fluoranthene    | 23.503 | 252  | 285671m  | 2.980   | ng    |          |
| 90) Benzo(a)pyrene          | 24.250 | 252  | 767007   | 8.824   | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 28.809 | 276  | 542765   | 5.585   | ng    | 96       |
| -----                       |        |      |          |         |       |          |

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

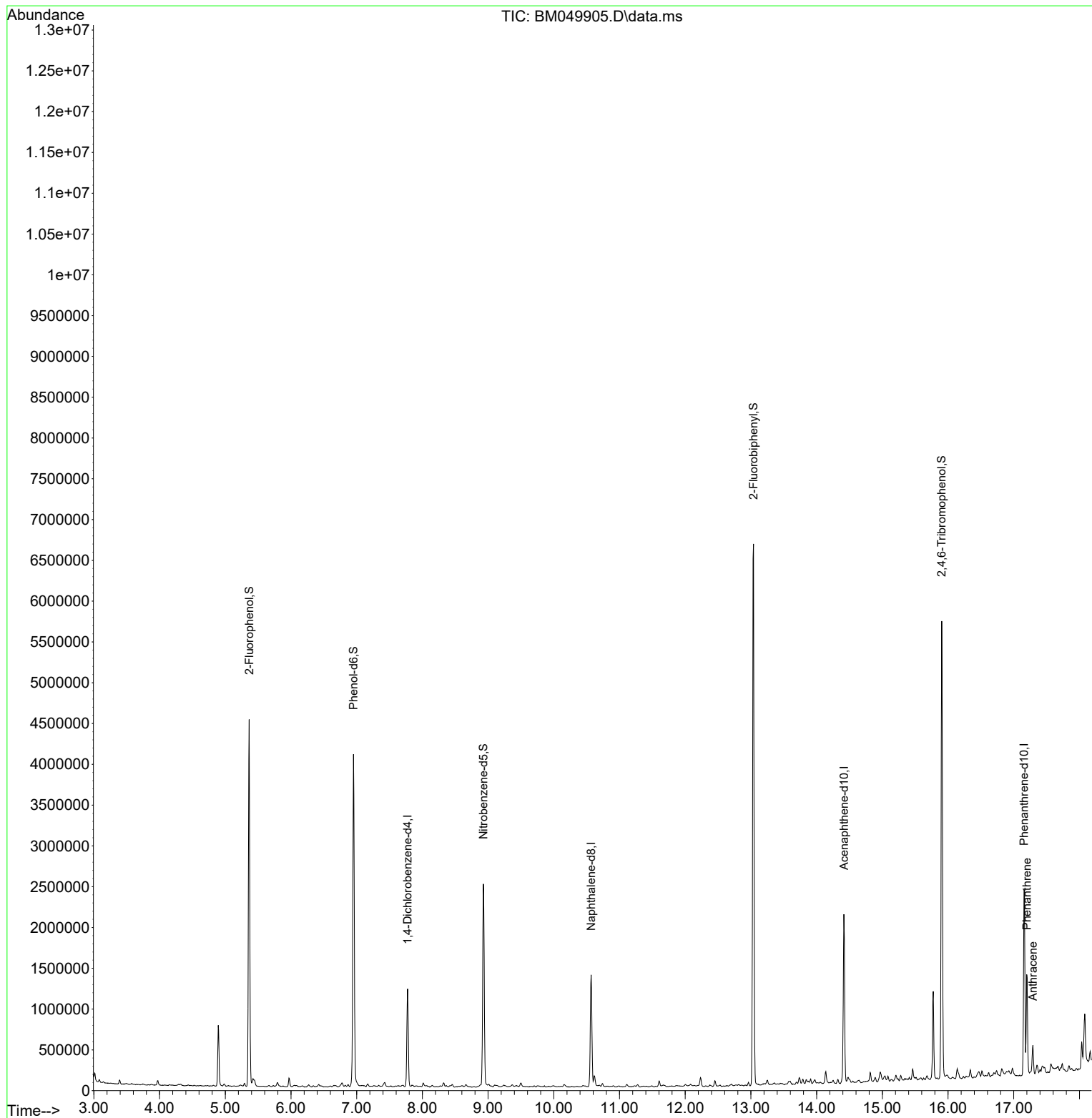
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041125\  
Data File : BM049905.D  
Acq On : 11 Apr 2025 17:34  
Operator : RC/JU  
Sample : Q1756-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TP-9

Quant Time: Apr 11 18:25:36 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 09 04:00:55 2025  
Response via : Initial Calibration

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Reviewed By :Rahul Chavli 04/14/2025  
Supervised By :Jagrut Upadhyay 04/14/2025



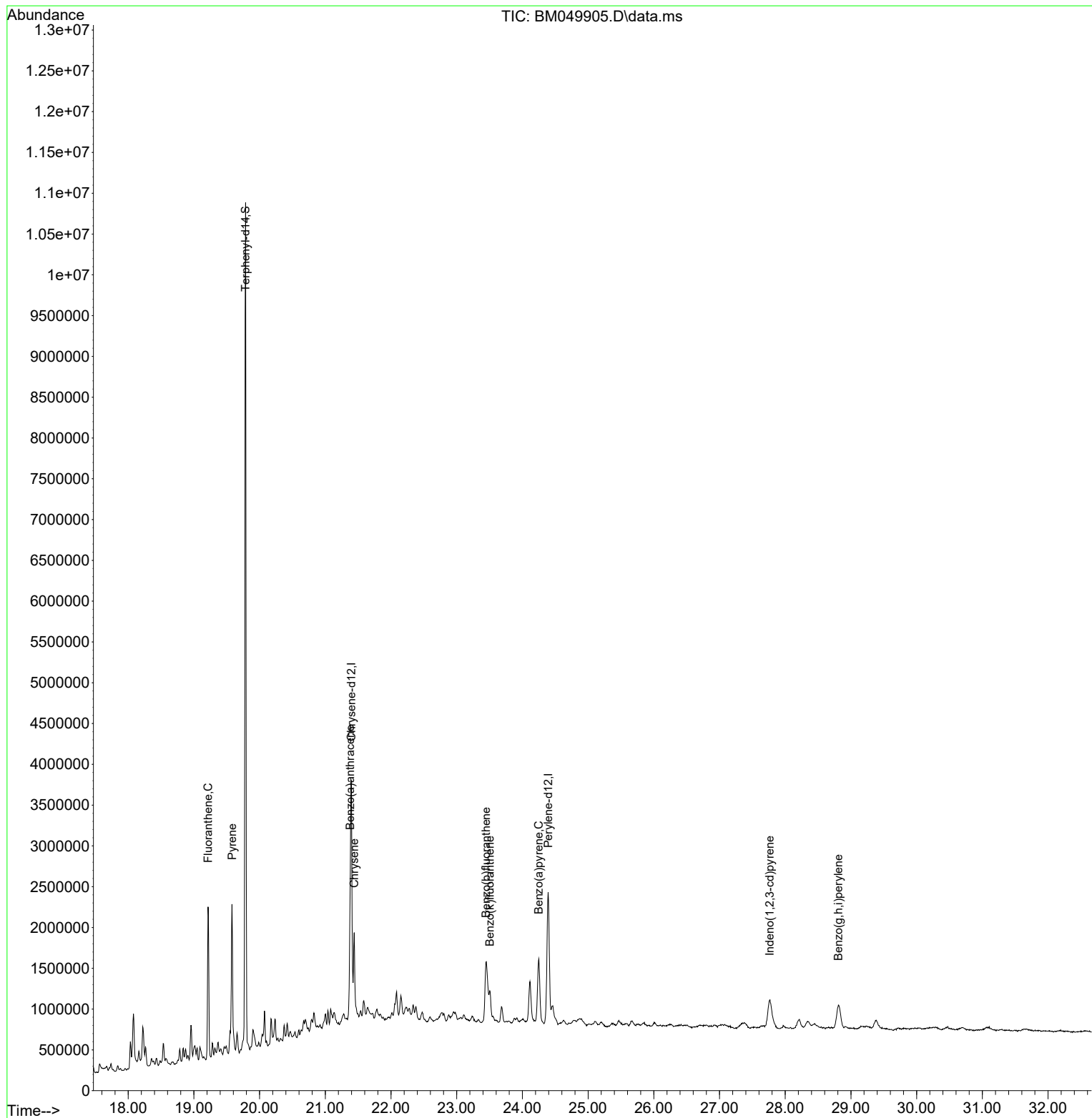
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041125\  
Data File : BM049905.D  
Acq On : 11 Apr 2025 17:34  
Operator : RC/JU  
Sample : Q1756-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

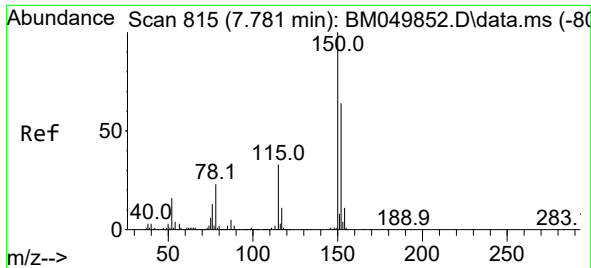
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BNA\_M  
ClientSampleId :  
TP-9

Quant Time: Apr 11 18:25:36 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
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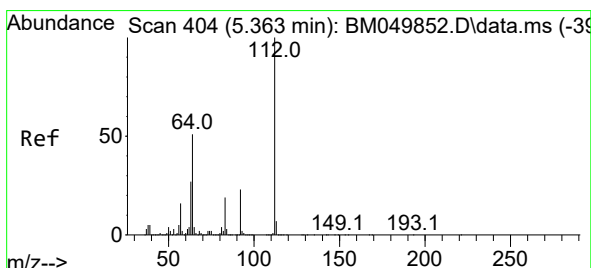
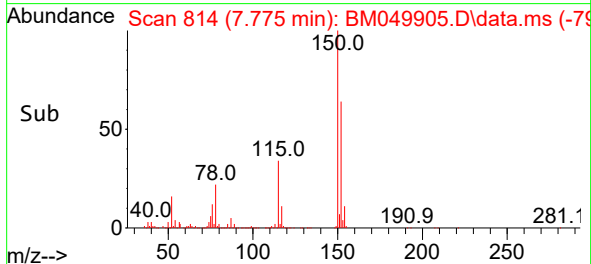
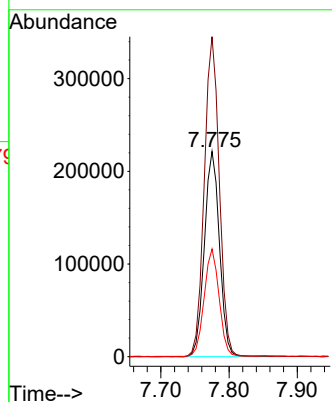
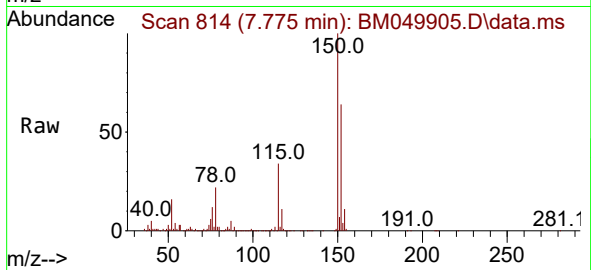
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.775 min Scan# 815  
Delta R.T. -0.006 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

Instrument :  
BNA\_M  
ClientSampleId :  
TP-9

Tgt Ion:152 Resp: 34182  
Ion Ratio Lower Upper  
152 100  
150 155.9 124.3 186.5  
115 52.5 41.1 61.7

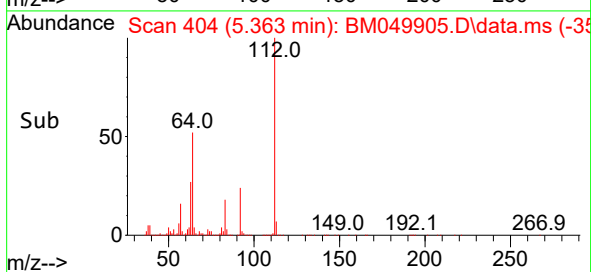
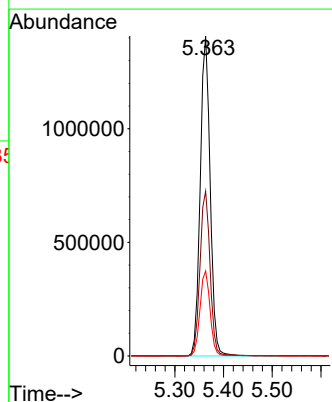
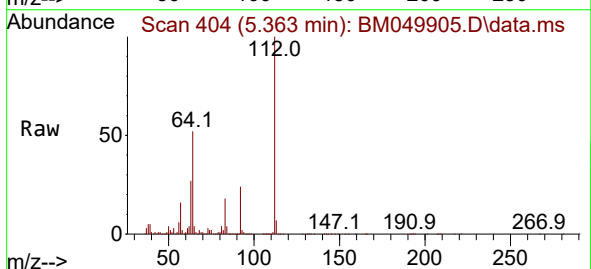
Manual Integrations  
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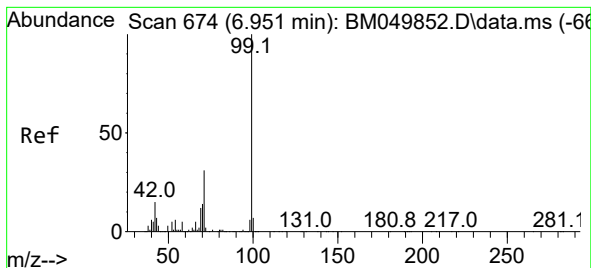
Reviewed By :Rahul Chavli 04/14/2025  
Supervised By :Jagrut Upadhyay 04/14/2025



#5  
2-Fluorophenol  
Concen: 99.629 ng  
RT: 5.363 min Scan# 404  
Delta R.T. 0.000 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

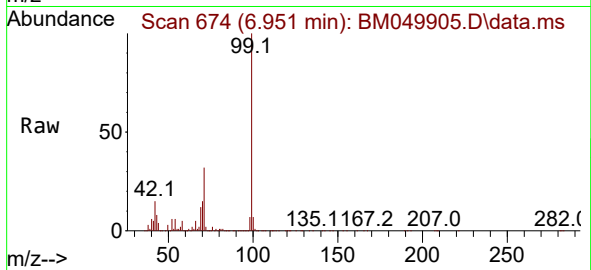
Tgt Ion:112 Resp: 2005532  
Ion Ratio Lower Upper  
112 100  
64 51.5 41.0 61.6  
63 26.6 21.5 32.3





#7  
Phenol-d6  
Concen: 96.160 ng  
RT: 6.951 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

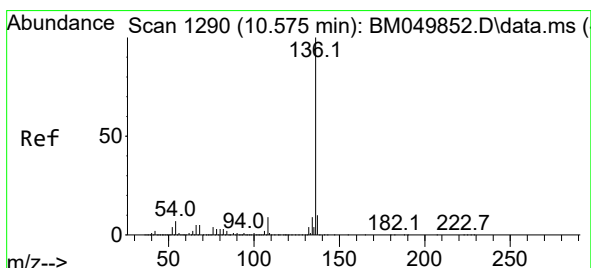
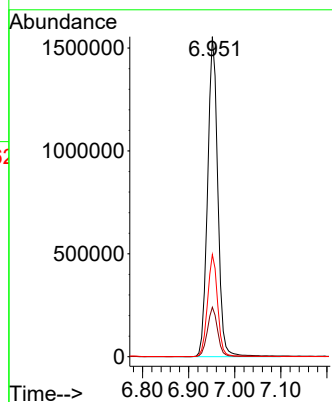
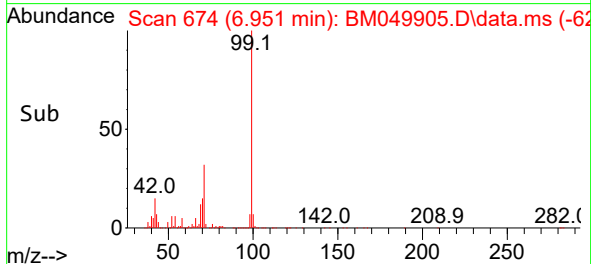
Instrument :  
BNA\_M  
ClientSampleId :  
TP-9



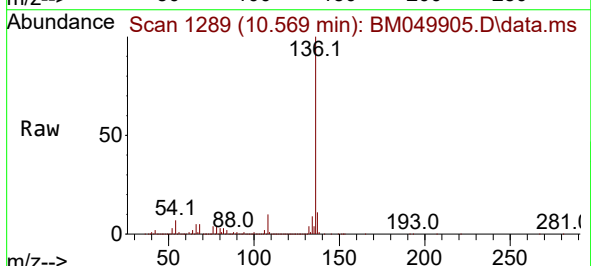
Tgt Ion: 99 Resp: 240835  
Ion Ratio Lower Upper  
99 100  
42 15.5 12.1 18.1  
71 31.9 24.9 37.3

Manual Integrations  
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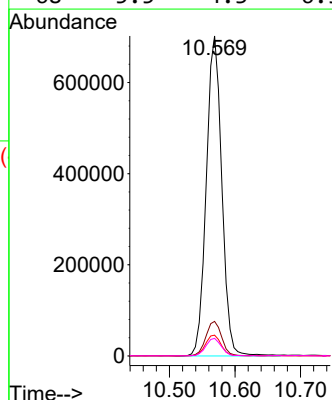
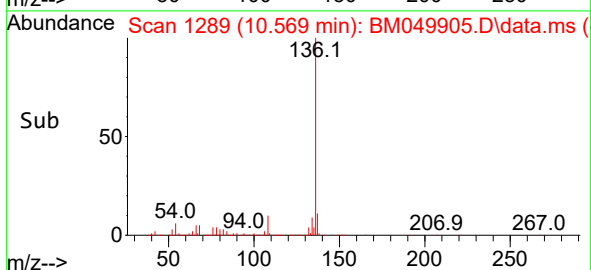
Reviewed By :Rahul Chavli 04/14/2025  
Supervised By :Jagrut Upadhyay 04/14/2025

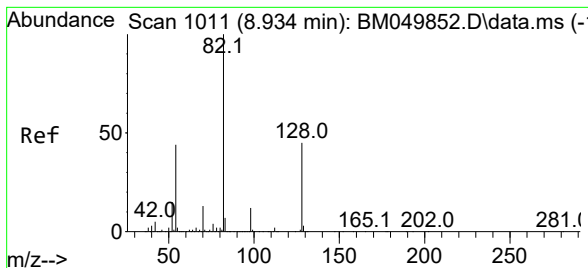


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.569 min Scan# 1289  
Delta R.T. -0.006 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34



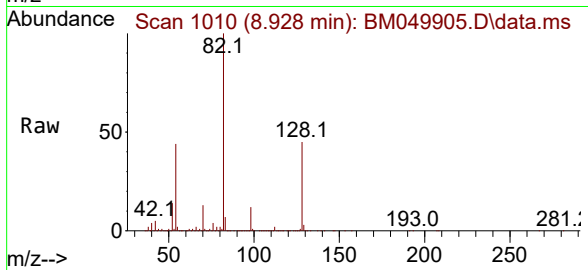
Tgt Ion:136 Resp: 1156923  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.4 12.6  
54 6.5 5.3 7.9  
68 5.5 4.3 6.5





#23  
Nitrobenzene-d5  
Concen: 70.107 ng  
RT: 8.928 min Scan# 1010  
Delta R.T. -0.006 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

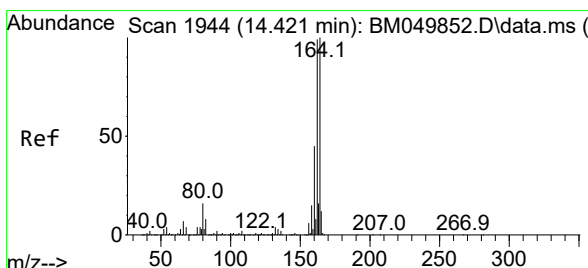
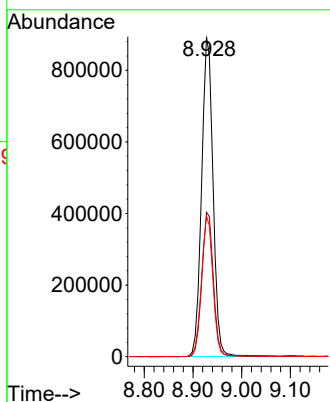
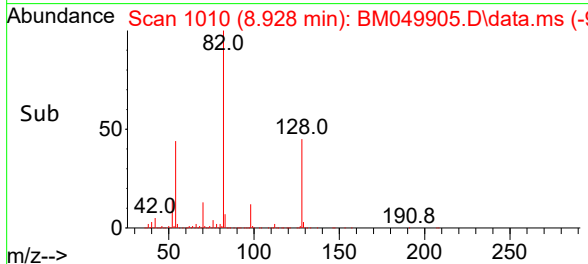
Instrument :  
BNA\_M  
ClientSampleId :  
TP-9



Tgt Ion: 82 Resp: 1456550  
Ion Ratio Lower Upper  
82 100  
128 45.1 36.2 54.2  
54 43.9 35.0 52.6

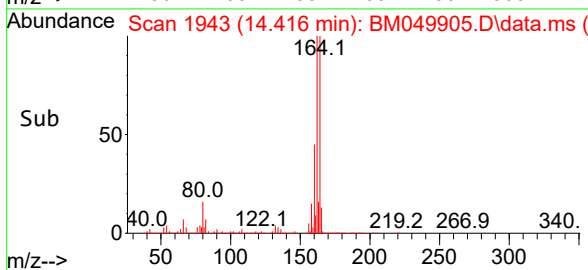
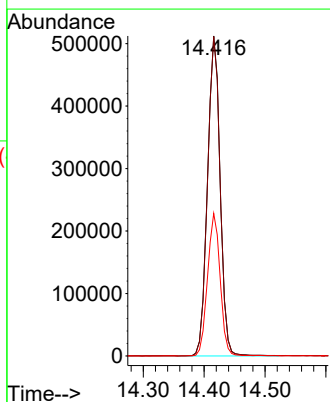
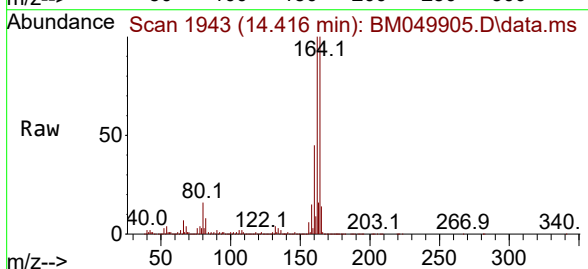
Manual Integrations  
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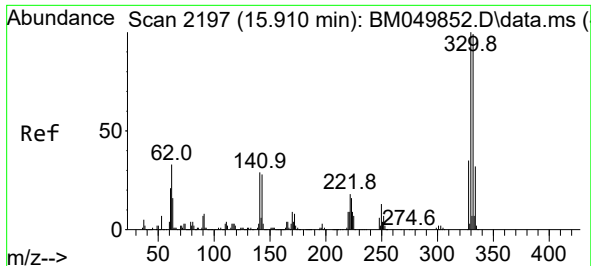
Reviewed By :Rahul Chavli 04/14/2025  
Supervised By :Jagrut Upadhyay 04/14/2025



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.416 min Scan# 1943  
Delta R.T. -0.006 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

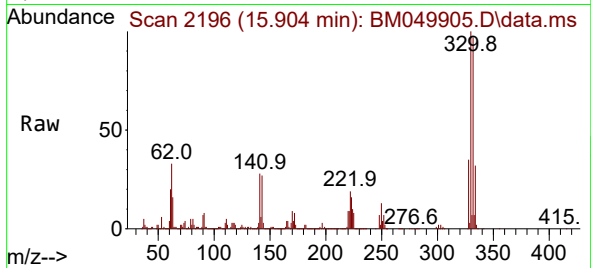
Tgt Ion:164 Resp: 739993  
Ion Ratio Lower Upper  
164 100  
162 99.8 79.4 119.0  
160 44.5 36.2 54.2





#42  
2,4,6-Tribromophenol  
Concen: 104.783 ng  
RT: 15.904 min Scan# 2197  
Delta R.T. -0.006 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

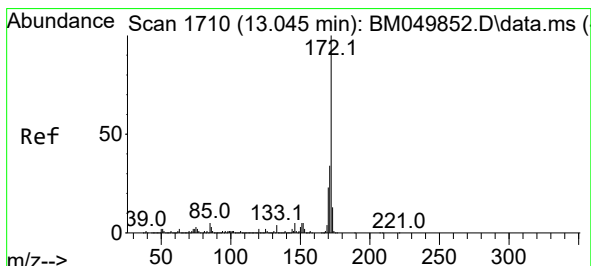
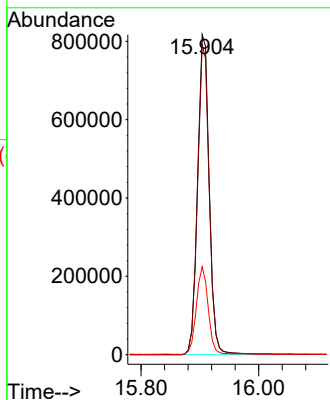
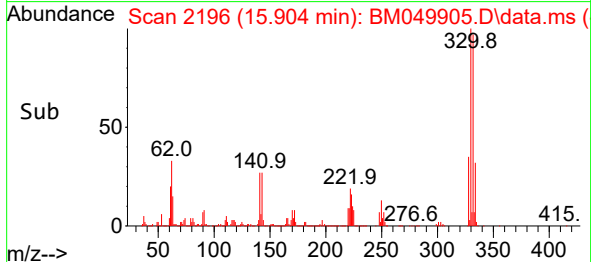
Instrument :  
BNA\_M  
ClientSampleId :  
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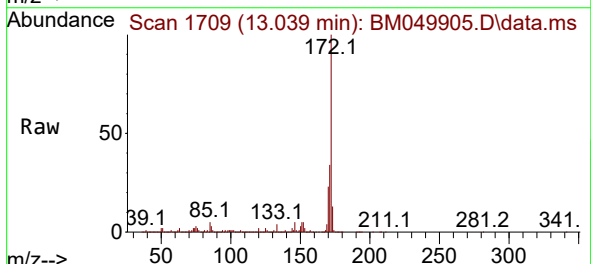
Tgt Ion:330 Resp: 112782  
Ion Ratio Lower Upper  
330 100  
332 96.4 78.0 117.0  
141 27.8 23.5 35.3

Manual Integrations  
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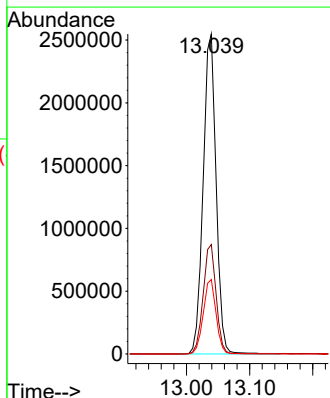
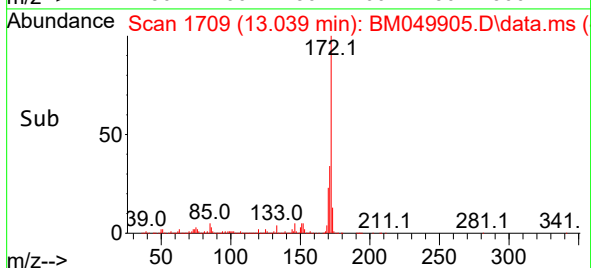
Reviewed By :Rahul Chavli 04/14/2025  
Supervised By :Jagrut Upadhyay 04/14/2025



#45  
2-Fluorobiphenyl  
Concen: 66.597 ng  
RT: 13.039 min Scan# 1709  
Delta R.T. -0.006 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34



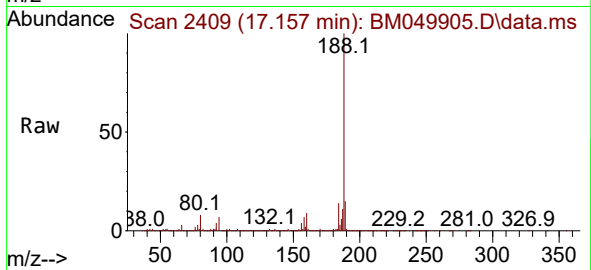
Tgt Ion:172 Resp: 3634297  
Ion Ratio Lower Upper  
172 100  
171 34.2 27.4 41.2  
170 23.3 18.6 28.0





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.157 min Scan# 2410  
Delta R.T. -0.006 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

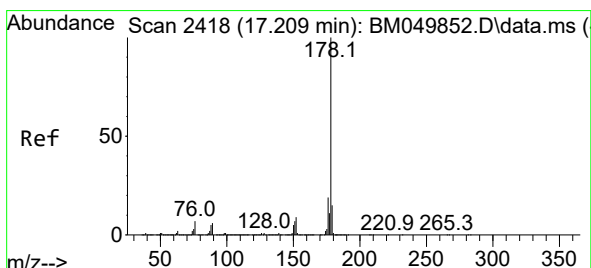
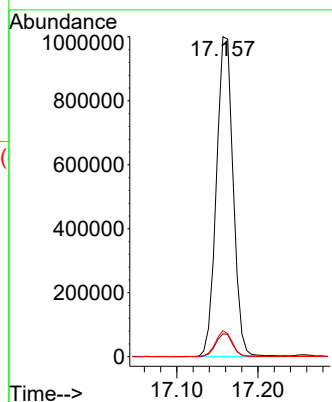
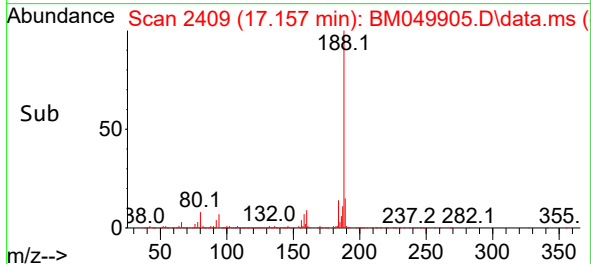
Instrument :  
BNA\_M  
ClientSampleId :  
TP-9



Tgt Ion:188 Resp: 143948  
Ion Ratio Lower Upper  
188 100  
94 7.2 5.8 8.6  
80 8.1 6.4 9.6

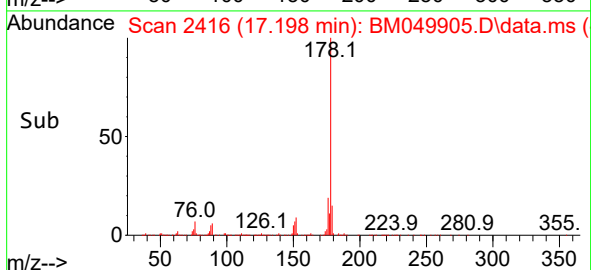
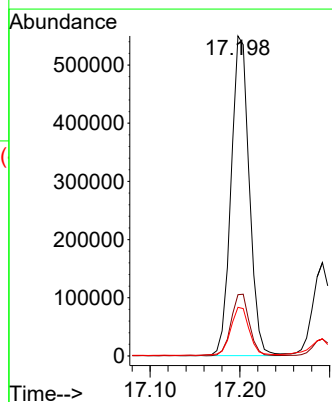
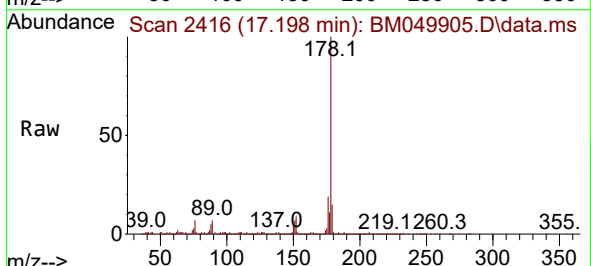
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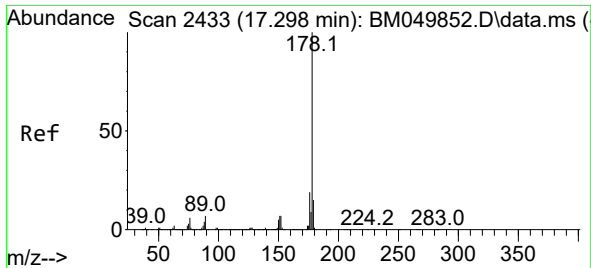
Reviewed By :Rahul Chavli 04/14/2025  
Supervised By :Jagrut Upadhyay 04/14/2025



#71  
Phenanthrene  
Concen: 9.771 ng  
RT: 17.198 min Scan# 2416  
Delta R.T. -0.012 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

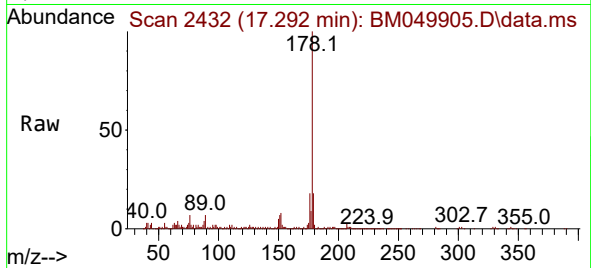
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Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.2  
179 15.2 12.3 18.5





#72  
 Anthracene  
 Concen: 2.795 ng  
 RT: 17.292 min Scan# 2433  
 Delta R.T. -0.006 min  
 Lab File: BM049905.D  
 Acq: 11 Apr 2025 17:34

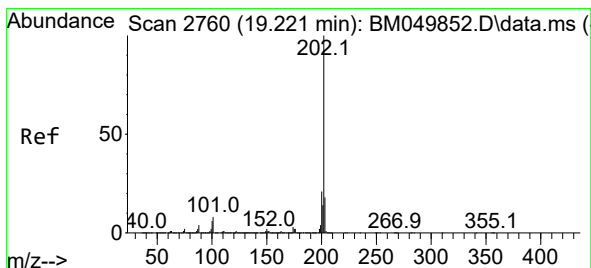
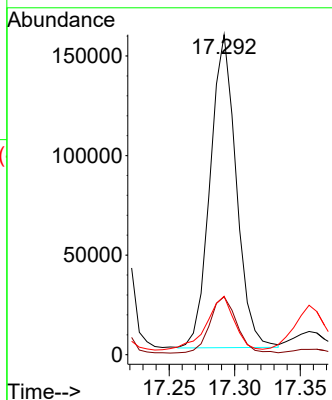
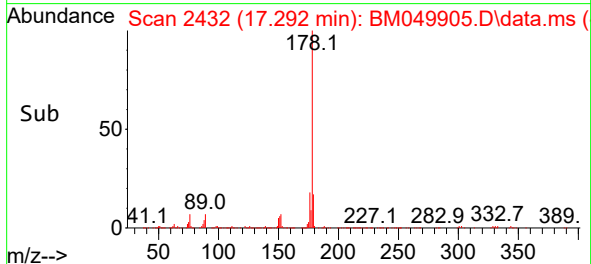
Instrument :  
 BNA\_M  
 ClientSampleId :  
 TP-9



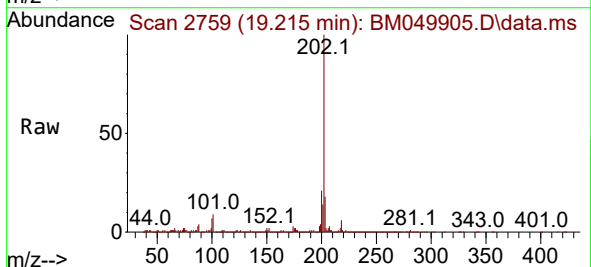
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Manual Integrations  
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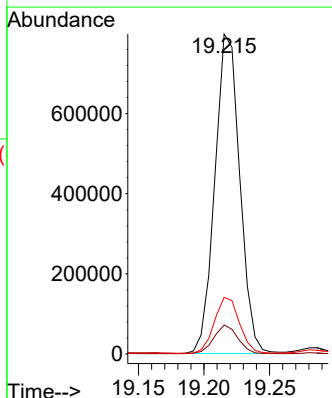
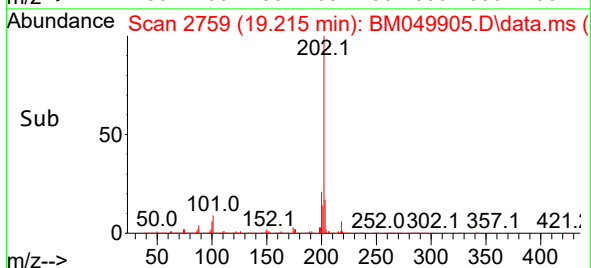
Reviewed By :Rahul Chavli 04/14/2025  
 Supervised By :Jagrut Upadhyay 04/14/2025

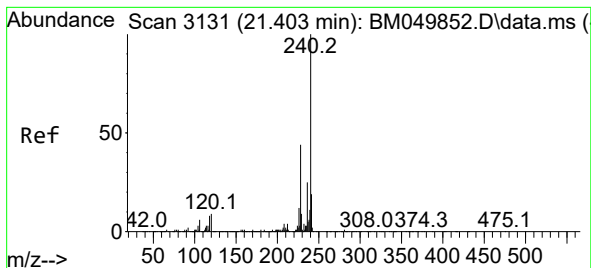


#75  
 Fluoranthene  
 Concen: 10.859 ng  
 RT: 19.215 min Scan# 2759  
 Delta R.T. -0.006 min  
 Lab File: BM049905.D  
 Acq: 11 Apr 2025 17:34



Tgt Ion:202 Resp: 1053653  
 Ion Ratio Lower Upper  
 202 100  
 101 9.0 0.0 28.4  
 203 17.7 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.398 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

Instrument :

BNA\_M

ClientSampleId :

TP-9

Tgt Ion:240 Resp: 140605

Ion Ratio Lower Upper

240 100

120 8.5 6.9 10.3

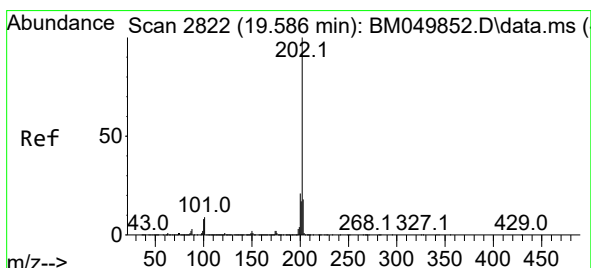
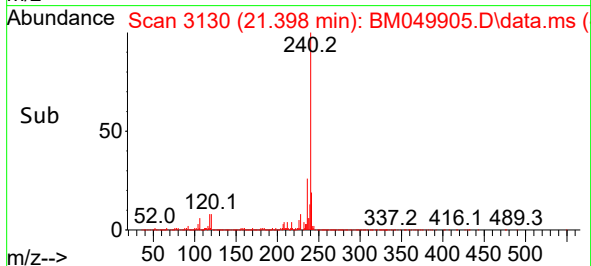
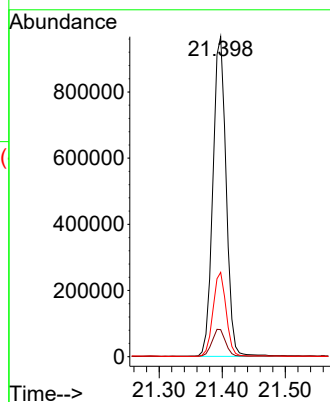
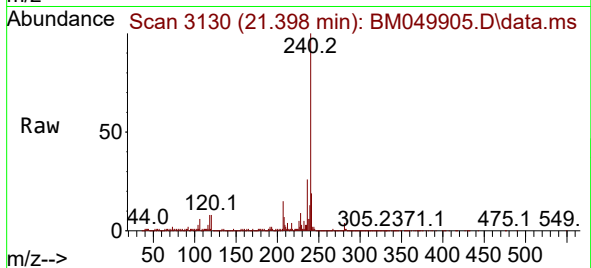
236 26.4 20.4 30.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/14/2025

Supervised By :Jagrut Upadhyay 04/14/2025



#78

Pyrene

Concen: 11.749 ng

RT: 19.580 min Scan# 2821

Delta R.T. -0.006 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

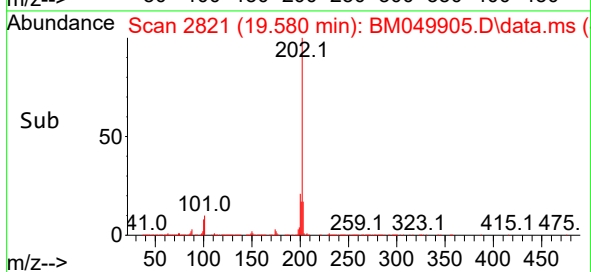
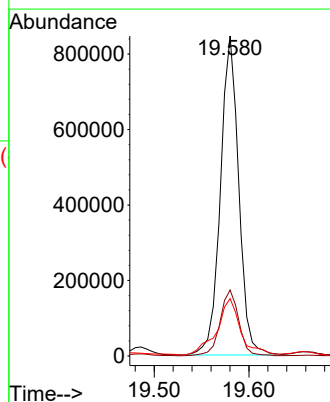
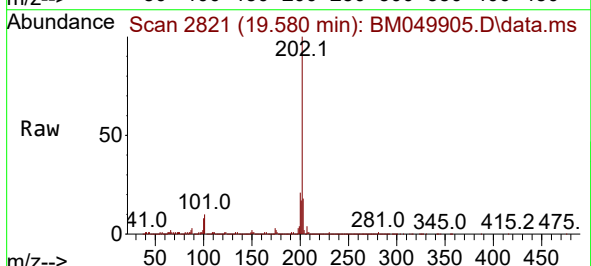
Tgt Ion:202 Resp: 1138502

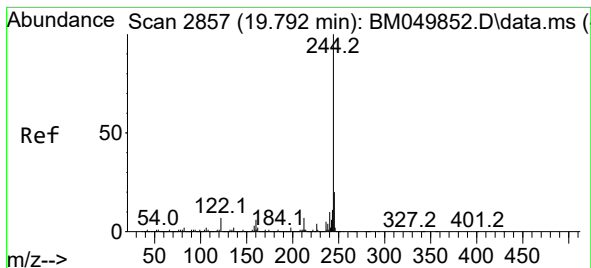
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 17.9 14.0 21.0





#79

Terphenyl-d14

Concen: 65.076 ng

RT: 19.786 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

Instrument :

BNA\_M

ClientSampleId :

TP-9

Tgt Ion:244 Resp: 488246

Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

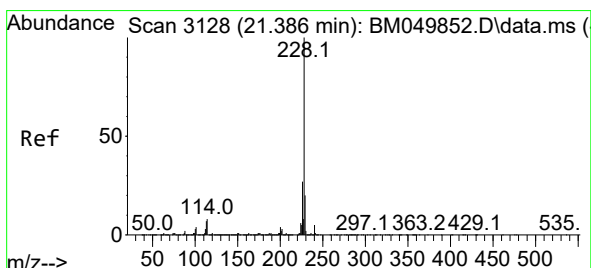
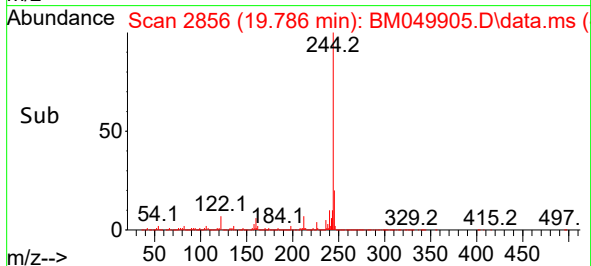
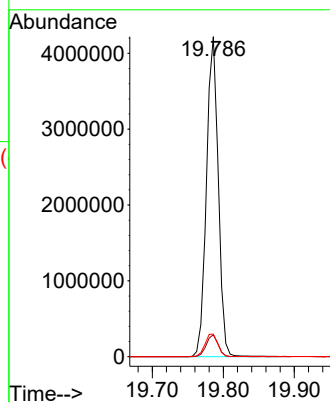
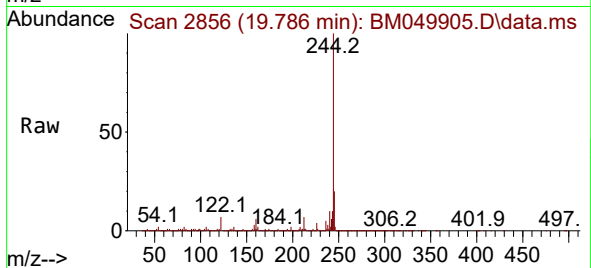
122 7.0 5.4 8.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/14/2025

Supervised By :Jagrut Upadhyay 04/14/2025



#81

Benzo(a)anthracene

Concen: 7.585 ng

RT: 21.380 min Scan# 3127

Delta R.T. -0.006 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

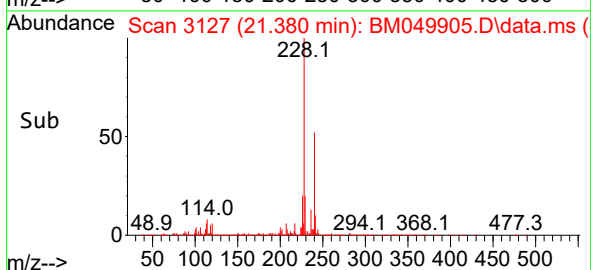
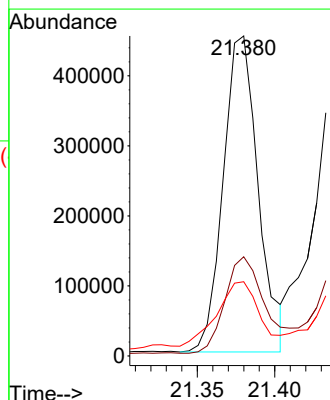
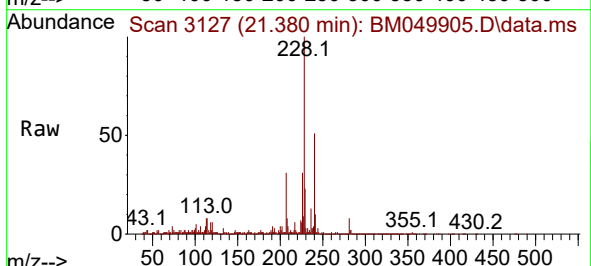
Tgt Ion:228 Resp: 708816

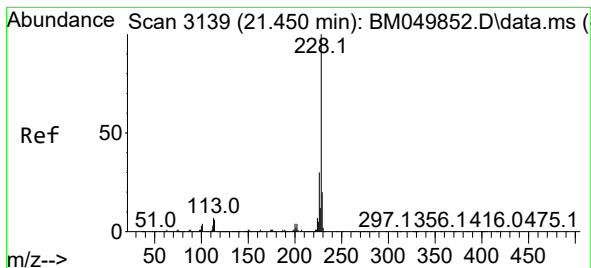
Ion Ratio Lower Upper

228 100

226 31.0 21.8 32.8

229 23.2 15.8 23.8





#83

Chrysene

Concen: 7.946 ng m

RT: 21.439 min Scan# 31

Delta R.T. -0.012 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

Instrument :

BNA\_M

ClientSampleId :

TP-9

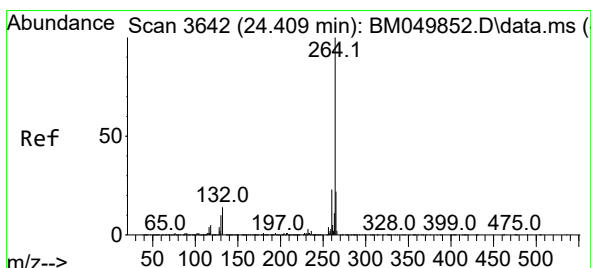
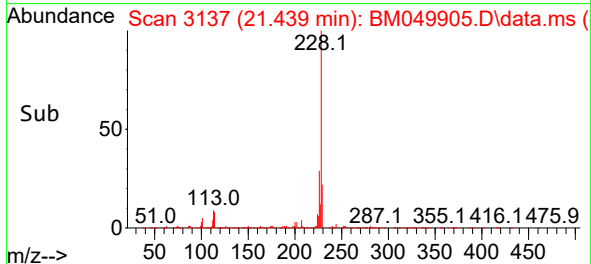
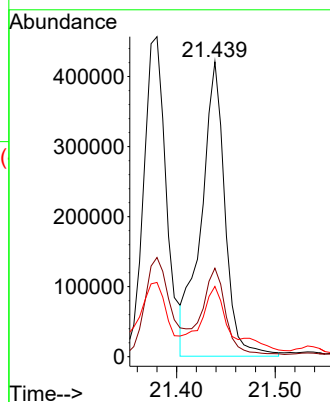
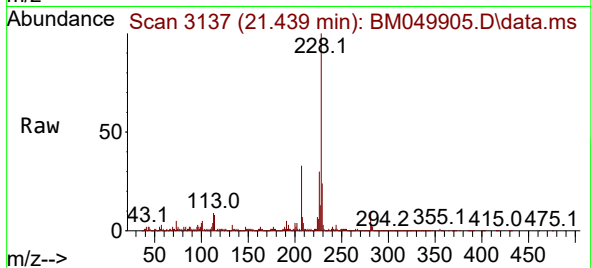
Tgt Ion:228 Resp: 70594  
 Ion Ratio Lower Upper  
 228 100  
 226 30.0 24.1 36.1  
 229 23.8 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/14/2025

Supervised By :Jagrut Upadhyay 04/14/2025



#86

Perylene-d12

Concen: 20.000 ng

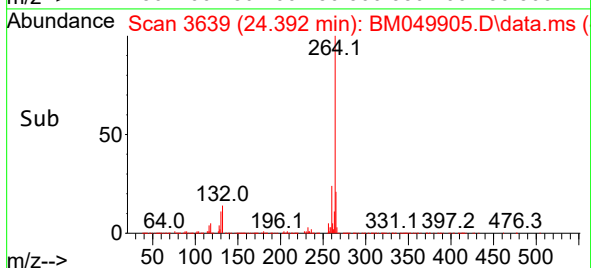
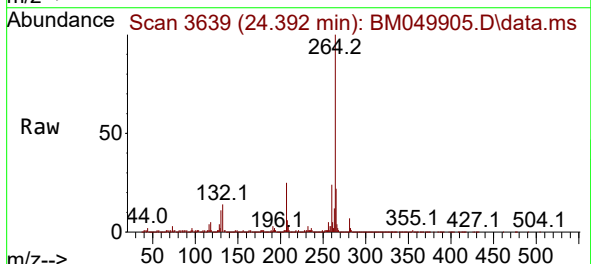
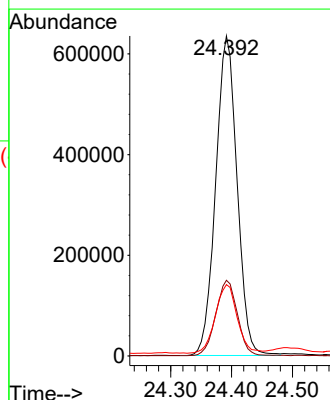
RT: 24.392 min Scan# 3639

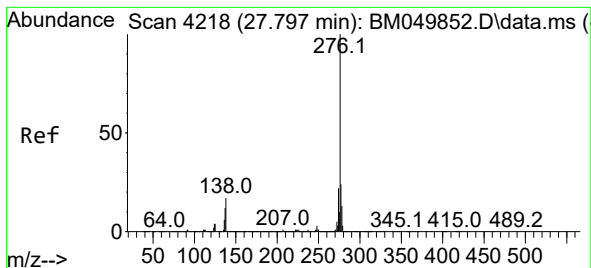
Delta R.T. -0.017 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

Tgt Ion:264 Resp: 1548926  
 Ion Ratio Lower Upper  
 264 100  
 260 23.6 18.6 28.0  
 265 22.3 17.8 26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.762 ng

RT: 27.762 min Scan# 41

Delta R.T. -0.035 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

Instrument :

BNA\_M

ClientSampleId :

TP-9

Tgt Ion:276 Resp: 549820

Ion Ratio Lower Upper

276 100

138 18.1 16.8 25.2

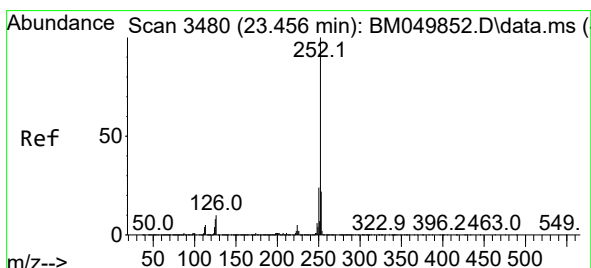
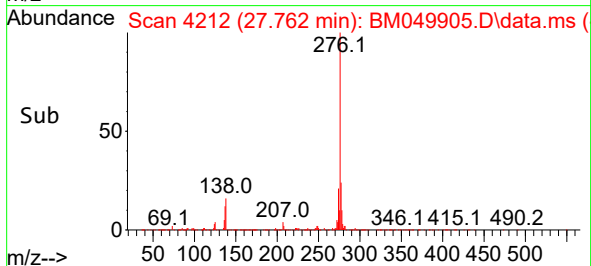
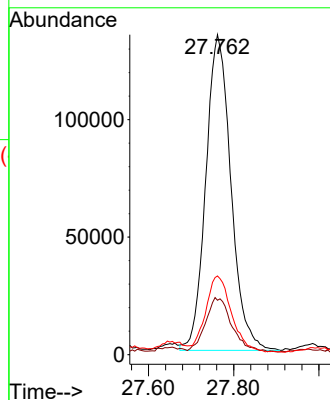
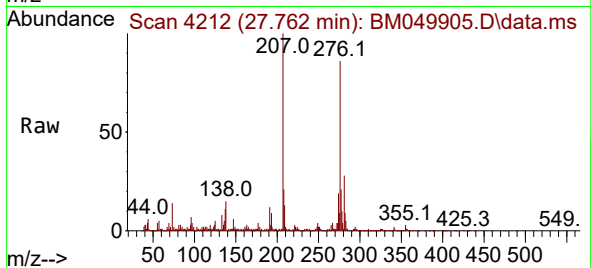
277 24.6 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/14/2025

Supervised By :Jagrut Upadhyay 04/14/2025



#88

Benzo(b)fluoranthene

Concen: 9.451 ng

RT: 23.445 min Scan# 3478

Delta R.T. -0.012 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

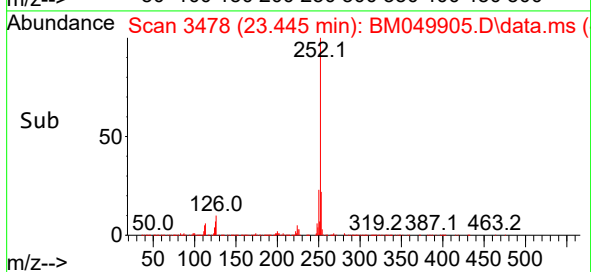
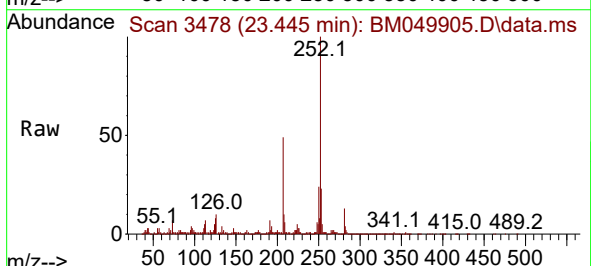
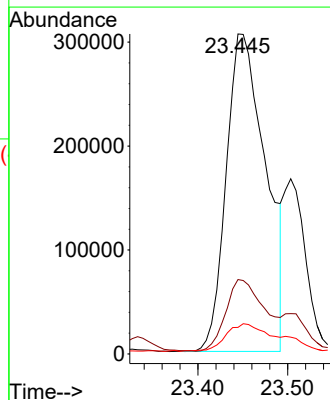
Tgt Ion:252 Resp: 934895

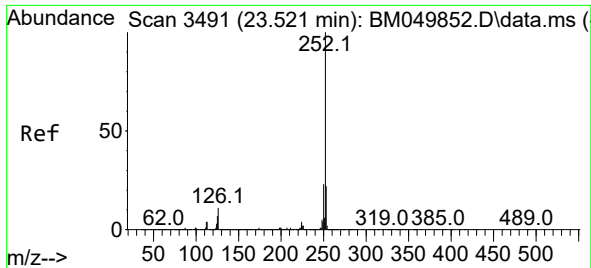
Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

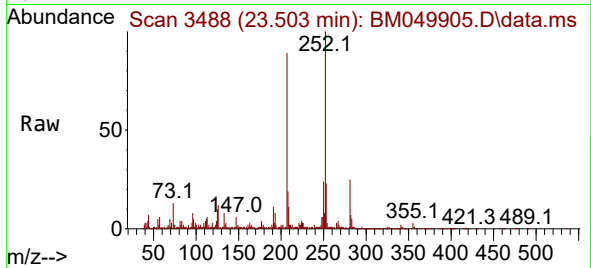
125 8.3 6.2 9.4





#89  
Benzo(k)fluoranthene  
Concen: 2.980 ng m  
RT: 23.503 min Scan# 3491  
Delta R.T. -0.017 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

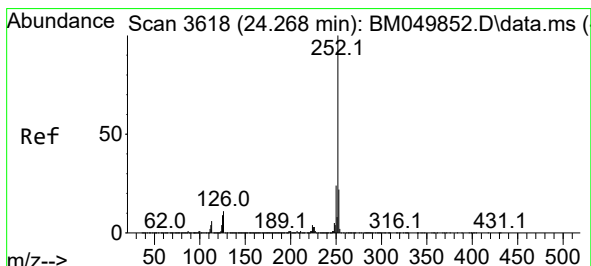
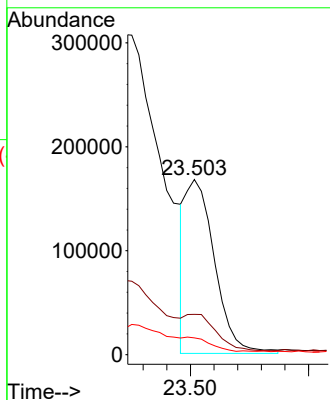
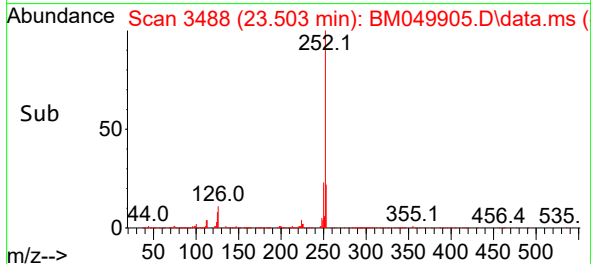
Instrument :  
BNA\_M  
ClientSampleId :  
TP-9



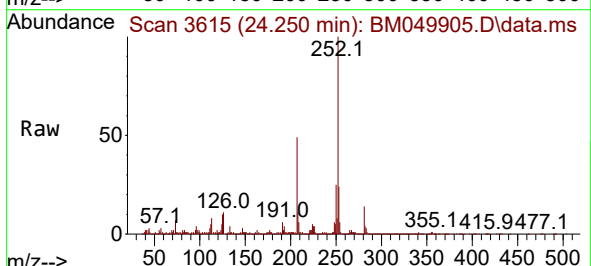
Tgt Ion:252 Resp: 28567  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.4 26.2  
125 9.6 5.8 8.8

Manual Integrations  
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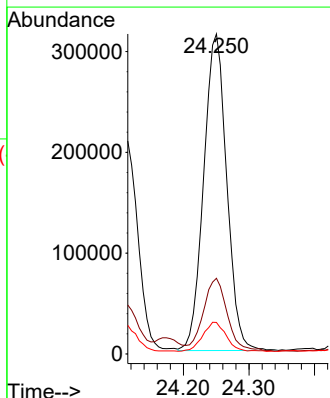
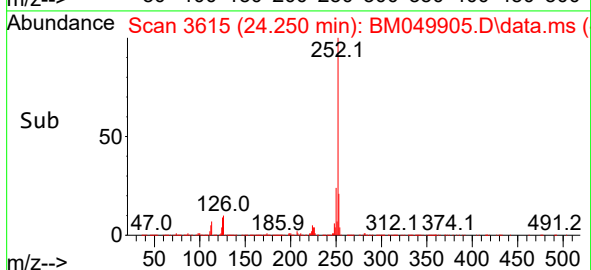
Reviewed By :Rahul Chavli 04/14/2025  
Supervised By :Jagrut Upadhyay 04/14/2025

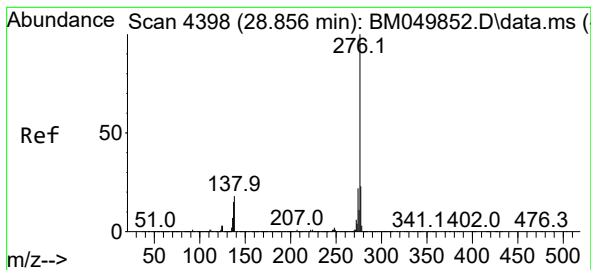


#90  
Benzo(a)pyrene  
Concen: 8.824 ng  
RT: 24.250 min Scan# 3615  
Delta R.T. -0.017 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34



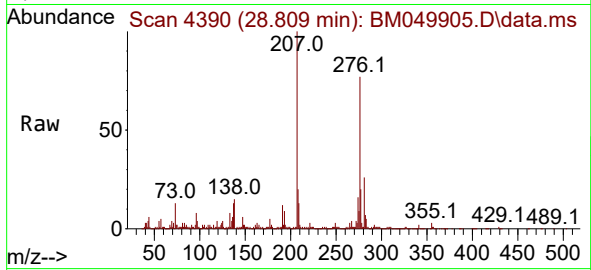
Tgt Ion:252 Resp: 767007  
Ion Ratio Lower Upper  
252 100  
253 23.7 17.8 26.8  
125 9.9 7.0 10.4





#92  
 Benzo(g,h,i)perylene  
 Concen: 5.585 ng  
 RT: 28.809 min Scan# 41  
 Delta R.T. -0.047 min  
 Lab File: BM049905.D  
 Acq: 11 Apr 2025 17:34

Instrument :  
 BNA\_M  
 ClientSampleId :  
 TP-9



Tgt Ion: 276 Resp: 54276  
 Ion Ratio Lower Upper  
 276 100  
 277 25.6 18.7 28.1  
 138 19.2 14.6 21.8

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 04/14/2025  
 Supervised By :Jagrut Upadhyay 04/14/2025

