

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP082825\  
 Data File : BP025615.D  
 Acq On : 28 Aug 2025 17:20  
 Operator : CG/JU  
 Sample : Q2971-19  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 TP8

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 08/29/2025  
 Supervised By :Jagrut Upadhyay 08/29/2025

Quant Time: Aug 28 17:55:45 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP081425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 14 18:14:31 2025  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.772  | 152  | 167210   | 20.000 | ng    | -0.02    |
| 21) Naphthalene-d8          | 10.543 | 136  | 652214   | 20.000 | ng    | -0.02    |
| 39) Acenaphthene-d10        | 14.389 | 164  | 425830   | 20.000 | ng    | -0.02    |
| 64) Phenanthrene-d10        | 17.189 | 188  | 883208   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12            | 21.636 | 240  | 979097   | 20.000 | ng    | -0.01    |
| 86) Perylene-d12            | 25.012 | 264  | 1120912  | 20.000 | ng    | -0.02    |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.402  | 112  | 742243   | 73.718 | ng    | 0.00     |
| 7) Phenol-d6                | 6.966  | 99   | 927947   | 71.884 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.919  | 82   | 585300   | 45.396 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 15.901 | 330  | 426028   | 74.328 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 12.995 | 172  | 1304182  | 41.857 | ng    | -0.02    |
| 79) Terphenyl-d14           | 19.913 | 244  | 2164817  | 40.452 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 17.236 | 178  | 348155   | 7.176  | ng    | 99       |
| 75) Fluoranthene            | 19.324 | 202  | 579997   | 10.022 | ng    | 99       |
| 78) Pyrene                  | 19.701 | 202  | 566954   | 8.909  | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.618 | 228  | 307278   | 4.759  | ng    | 98       |
| 83) Chrysene                | 21.683 | 228  | 312070   | 5.161  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 28.842 | 276  | 228931   | 2.785  | ng    | # 92     |
| 88) Benzo(b)fluoranthene    | 23.954 | 252  | 396754   | 6.003  | ng    | # 95     |
| 89) Benzo(k)fluoranthene    | 24.012 | 252  | 162007m  | 2.449  | ng    |          |
| 90) Benzo(a)pyrene          | 24.848 | 252  | 309046   | 4.803  | ng    | 96       |
| 92) Benzo(g,h,i)perylene    | 30.030 | 276  | 219286   | 3.321  | ng    | 99       |
| -----                       |        |      |          |        |       |          |

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

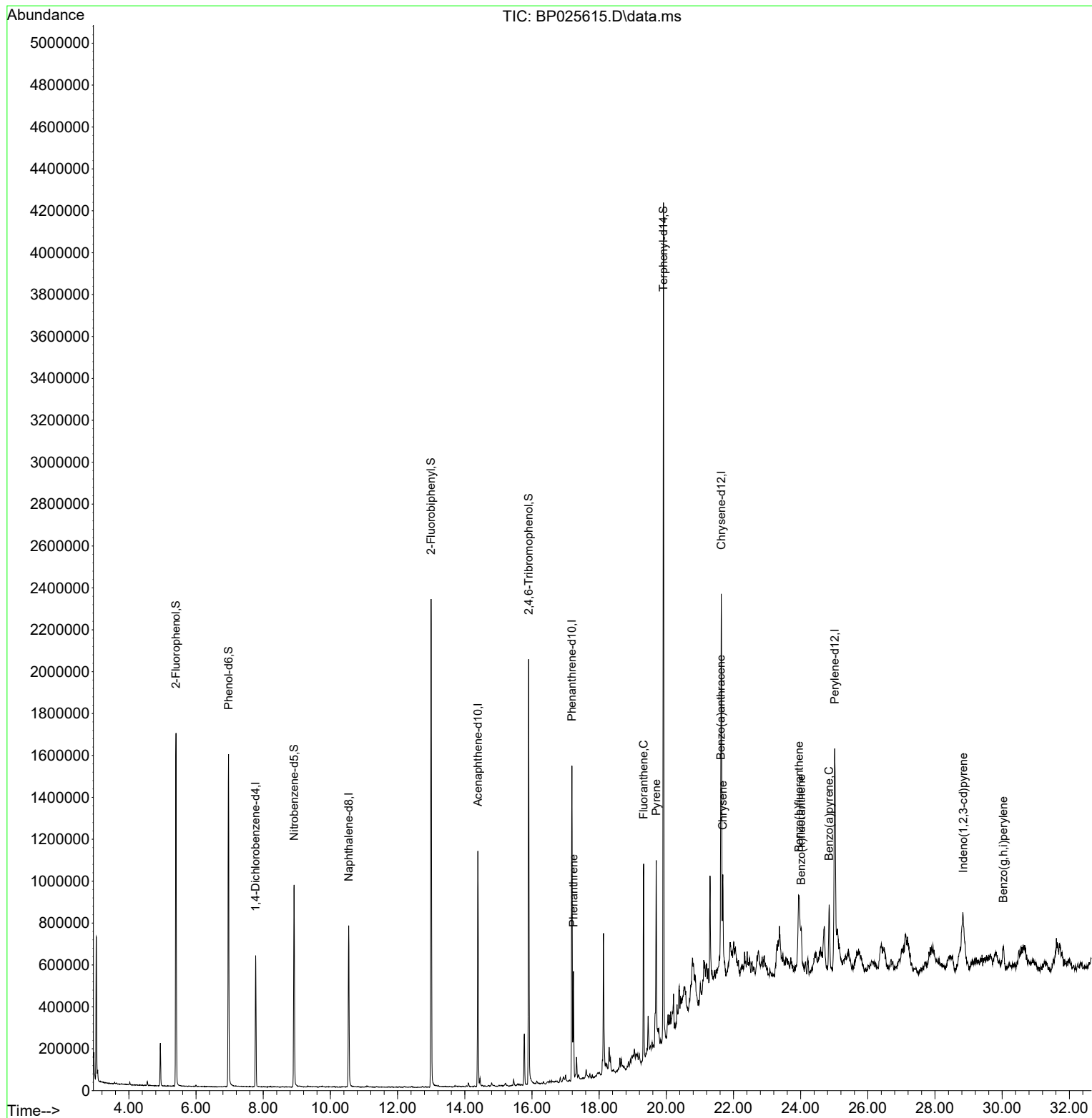
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP082825\  
Data File : BP025615.D  
Acq On : 28 Aug 2025 17:20  
Operator : CG/JU  
Sample : Q2971-19  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP8

Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 08/29/2025  
Supervised By :Jagrut Upadhyay 08/29/2025

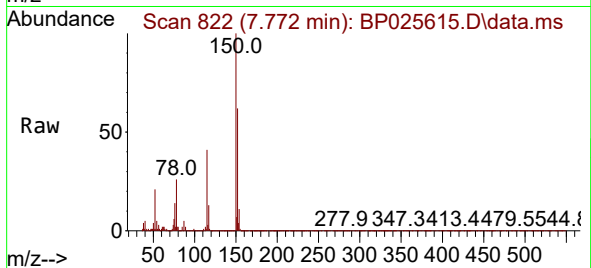
Quant Time: Aug 28 17:55:45 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP081425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 14 18:14:31 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.772 min Scan# 81  
Delta R.T. -0.024 min  
Lab File: BP025615.D  
Acq: 28 Aug 2025 17:20

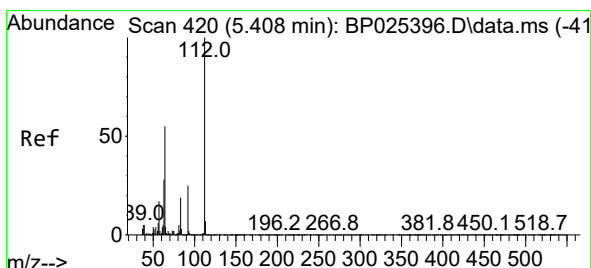
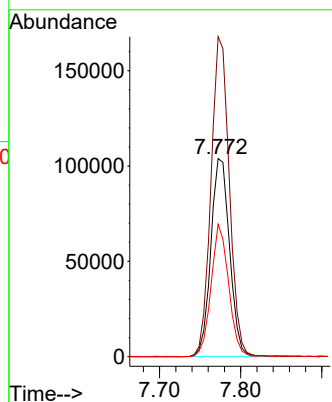
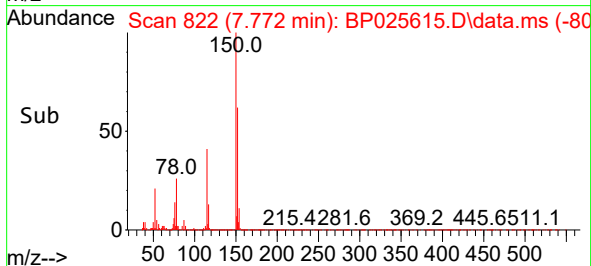
Instrument :  
BNA\_P  
ClientSampleId :  
TP8



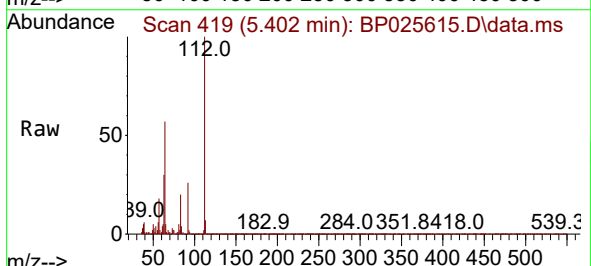
Tgt Ion:152 Resp: 167210  
Ion Ratio Lower Upper  
152 100  
150 161.6 125.9 188.9  
115 66.9 48.5 72.7

Manual Integrations  
APPROVED

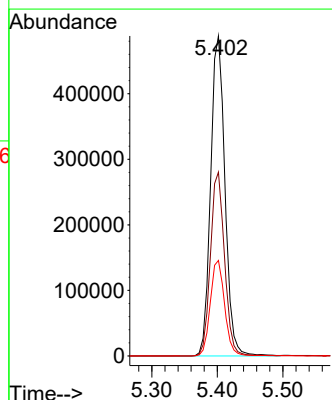
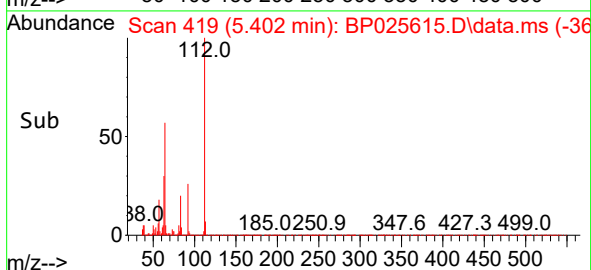
Reviewed By :Rahul Chavli 08/29/2025  
Supervised By :Jagrut Upadhyay 08/29/2025

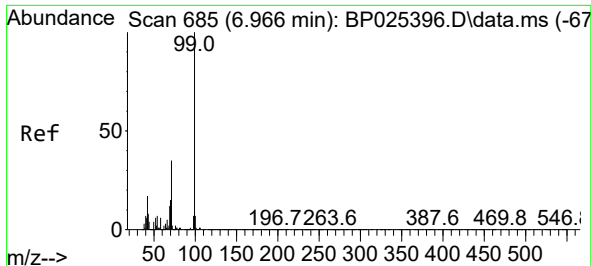


#5  
2-Fluorophenol  
Concen: 73.718 ng  
RT: 5.402 min Scan# 419  
Delta R.T. -0.006 min  
Lab File: BP025615.D  
Acq: 28 Aug 2025 17:20



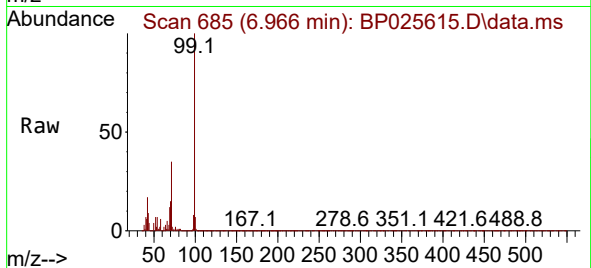
Tgt Ion:112 Resp: 742243  
Ion Ratio Lower Upper  
112 100  
64 57.5 43.8 65.8  
63 29.9 22.7 34.1





#7  
Phenol-d6  
Concen: 71.884 ng  
RT: 6.966 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BP025615.D  
Acq: 28 Aug 2025 17:20

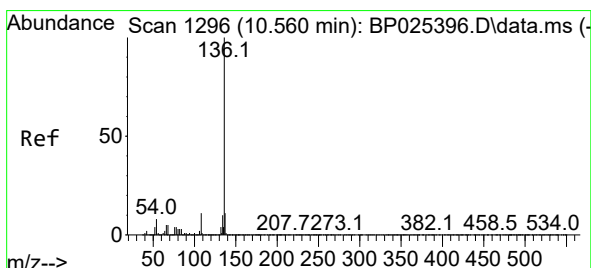
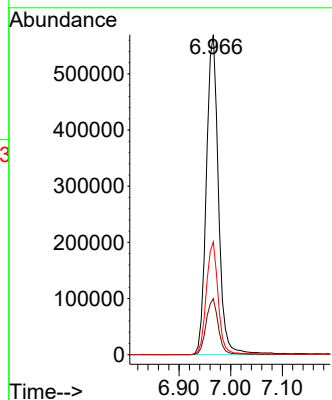
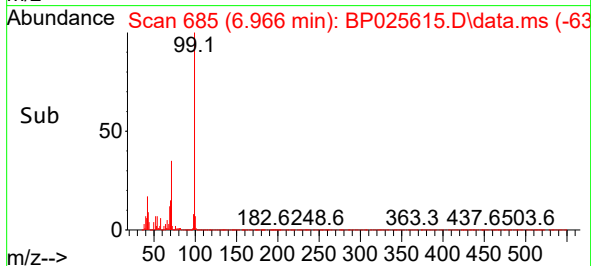
Instrument :  
BNA\_P  
ClientSampleId :  
TP8



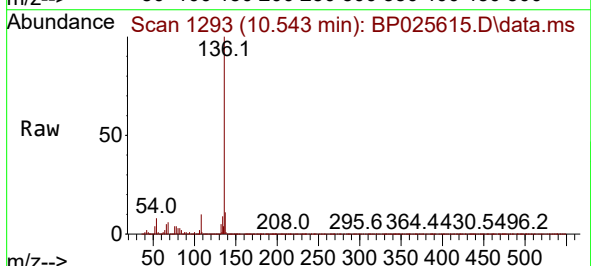
Tgt Ion: 99 Resp: 92794  
Ion Ratio Lower Upper  
99 100  
42 17.5 13.7 20.5  
71 35.2 28.2 42.4

Manual Integrations  
APPROVED

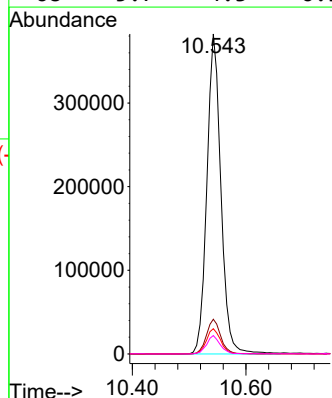
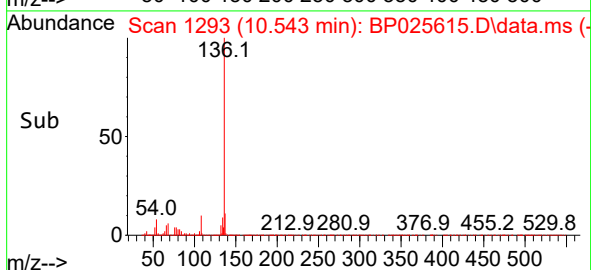
Reviewed By :Rahul Chavli 08/29/2025  
Supervised By :Jagrut Upadhyay 08/29/2025



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.543 min Scan# 1293  
Delta R.T. -0.018 min  
Lab File: BP025615.D  
Acq: 28 Aug 2025 17:20



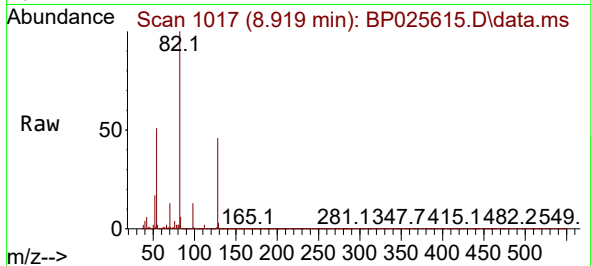
Tgt Ion:136 Resp: 652214  
Ion Ratio Lower Upper  
136 100  
137 10.8 9.2 13.8  
54 7.9 6.0 9.0  
68 5.7 4.3 6.5





#23  
Nitrobenzene-d5  
Concen: 45.396 ng  
RT: 8.919 min Scan# 1020  
Delta R.T. -0.018 min  
Lab File: BP025615.D  
Acq: 28 Aug 2025 17:20

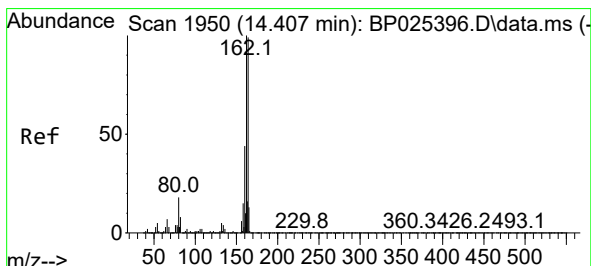
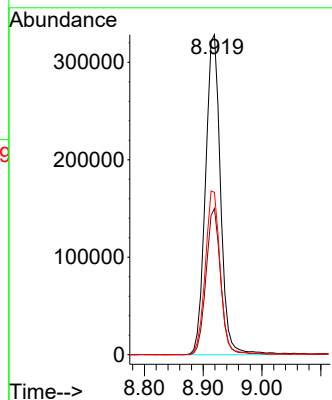
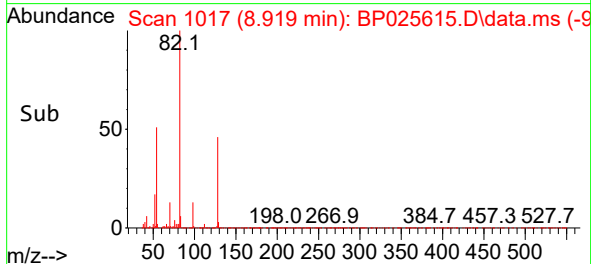
Instrument :  
BNA\_P  
ClientSampleId :  
TP8



Tgt Ion: 82 Resp: 585300  
Ion Ratio Lower Upper  
82 100  
128 45.7 37.7 56.5  
54 50.8 39.8 59.6

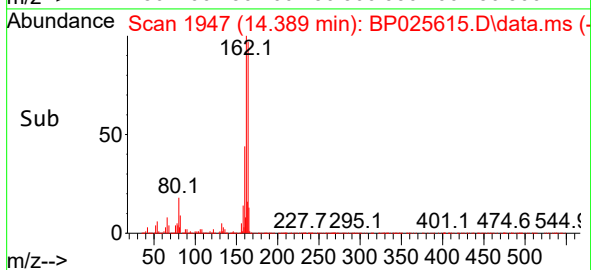
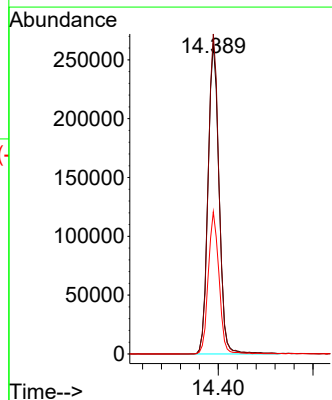
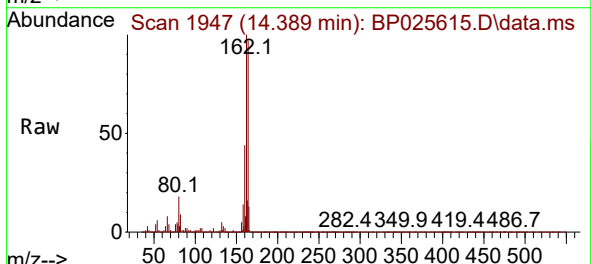
Manual Integrations  
APPROVED

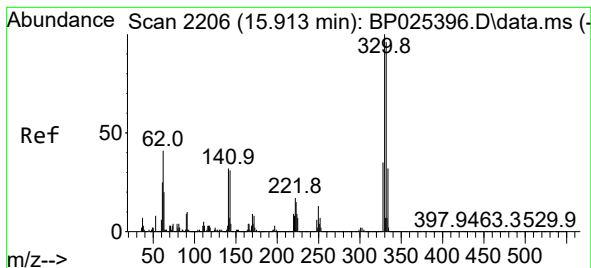
Reviewed By :Rahul Chavli 08/29/2025  
Supervised By :Jagrut Upadhyay 08/29/2025



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.389 min Scan# 1947  
Delta R.T. -0.018 min  
Lab File: BP025615.D  
Acq: 28 Aug 2025 17:20

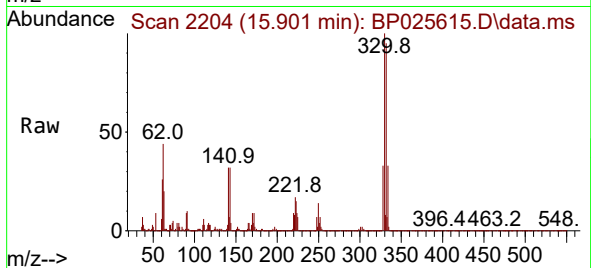
Tgt Ion:164 Resp: 425830  
Ion Ratio Lower Upper  
164 100  
162 103.1 81.0 121.6  
160 45.8 35.4 53.2





#42  
2,4,6-Tribromophenol  
Concen: 74.328 ng  
RT: 15.901 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BP025615.D  
Acq: 28 Aug 2025 17:20

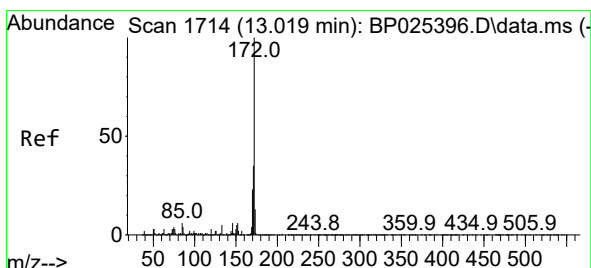
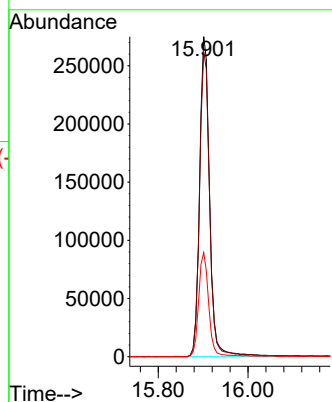
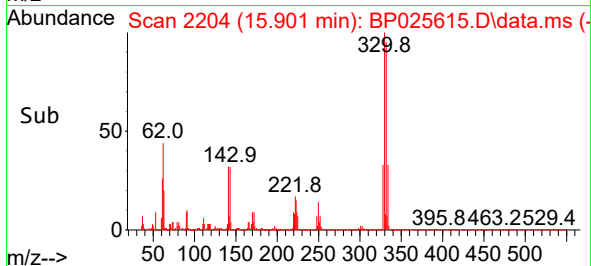
Instrument :  
BNA\_P  
ClientSampleId :  
TP8



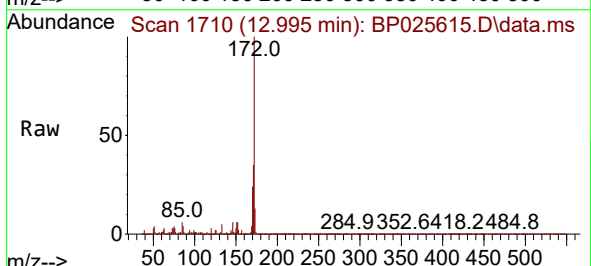
Tgt Ion:330 Resp: 426028  
Ion Ratio Lower Upper  
330 100  
332 96.0 77.3 115.9  
141 32.6 26.6 39.8

Manual Integrations  
APPROVED

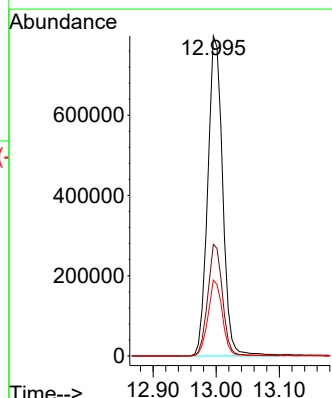
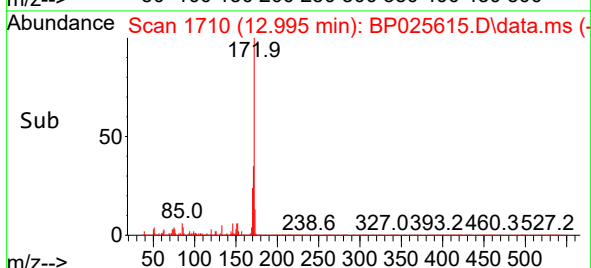
Reviewed By :Rahul Chavli 08/29/2025  
Supervised By :Jagrut Upadhyay 08/29/2025

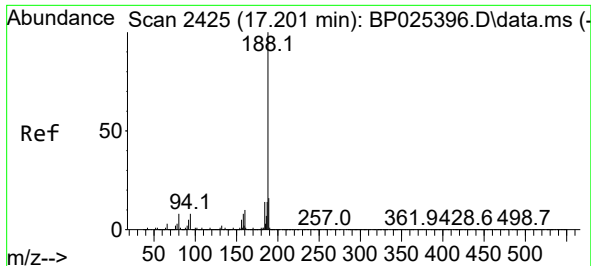


#45  
2-Fluorobiphenyl  
Concen: 41.857 ng  
RT: 12.995 min Scan# 1710  
Delta R.T. -0.024 min  
Lab File: BP025615.D  
Acq: 28 Aug 2025 17:20



Tgt Ion:172 Resp: 1304182  
Ion Ratio Lower Upper  
172 100  
171 34.9 28.1 42.1  
170 23.7 18.6 28.0





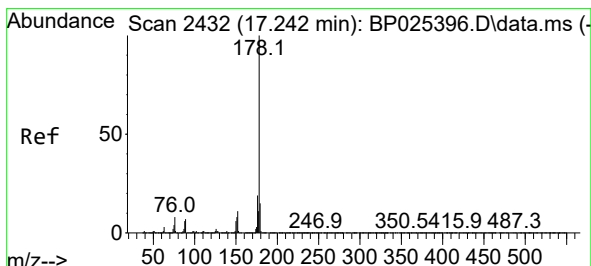
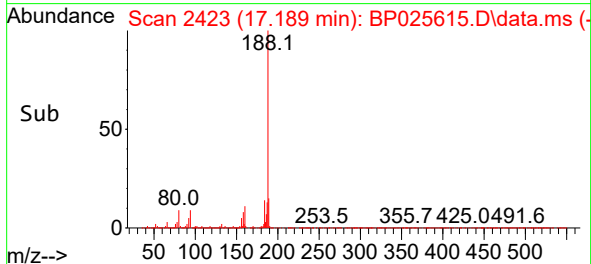
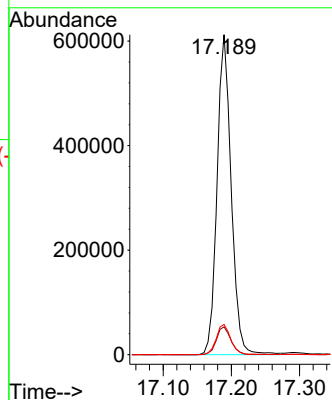
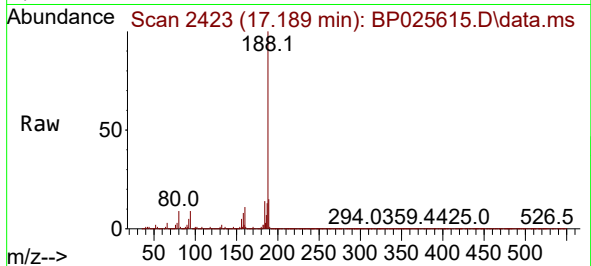
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.189 min Scan# 2425  
Delta R.T. -0.012 min  
Lab File: BP025615.D  
Acq: 28 Aug 2025 17:20

Instrument :  
BNA\_P  
ClientSampleId :  
TP8

Tgt Ion:188 Resp: 883208  
Ion Ratio Lower Upper  
188 100  
94 8.7 6.6 10.0  
80 9.4 6.7 10.1

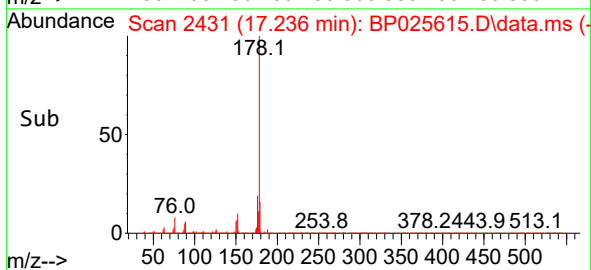
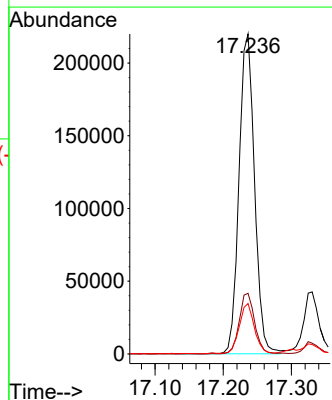
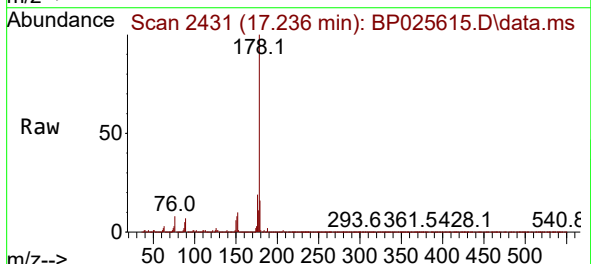
Manual Integrations  
APPROVED

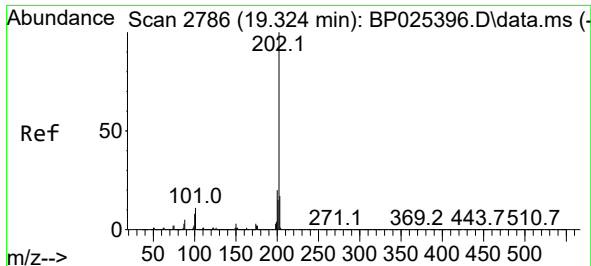
Reviewed By :Rahul Chavli 08/29/2025  
Supervised By :Jagrut Upadhyay 08/29/2025



#71  
Phenanthrene  
Concen: 7.176 ng  
RT: 17.236 min Scan# 2431  
Delta R.T. -0.006 min  
Lab File: BP025615.D  
Acq: 28 Aug 2025 17:20

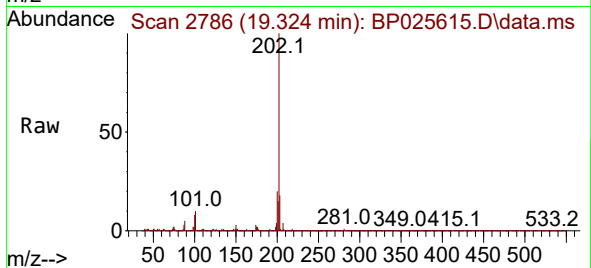
Tgt Ion:178 Resp: 348155  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.5 23.3  
179 15.8 12.2 18.4





#75  
Fluoranthene  
Concen: 10.022 ng  
RT: 19.324 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BP025615.D  
Acq: 28 Aug 2025 17:20

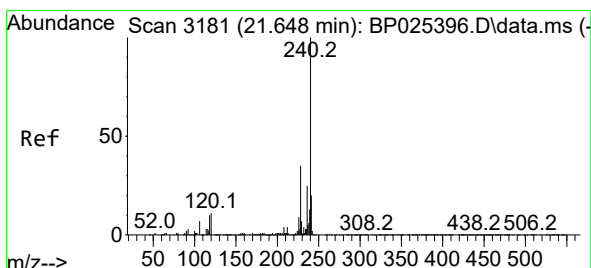
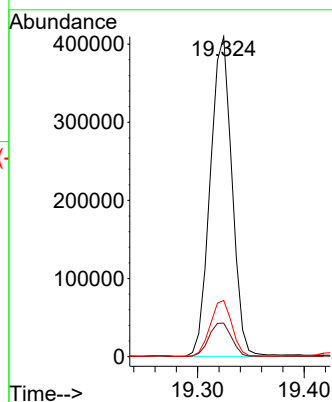
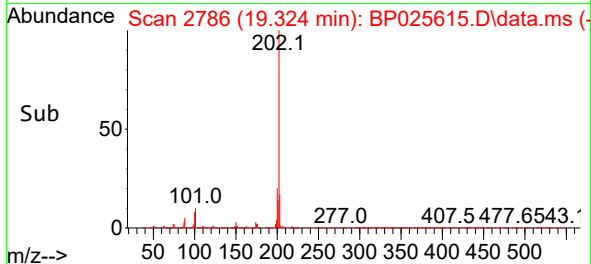
Instrument :  
BNA\_P  
ClientSampleId :  
TP8



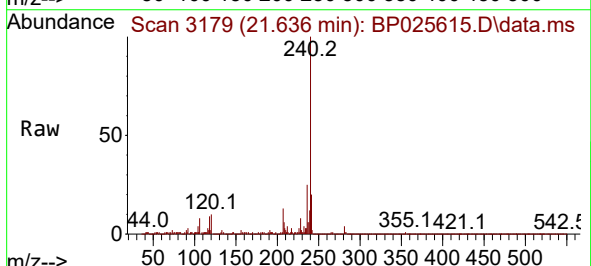
Tgt Ion:202 Resp: 57999  
Ion Ratio Lower Upper  
202 100  
101 10.5 0.0 31.1  
203 17.5 0.0 37.3

Manual Integrations  
APPROVED

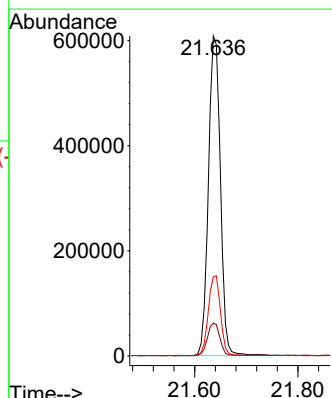
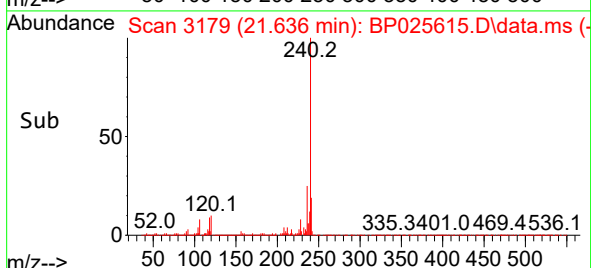
Reviewed By :Rahul Chavli 08/29/2025  
Supervised By :Jagrut Upadhyay 08/29/2025

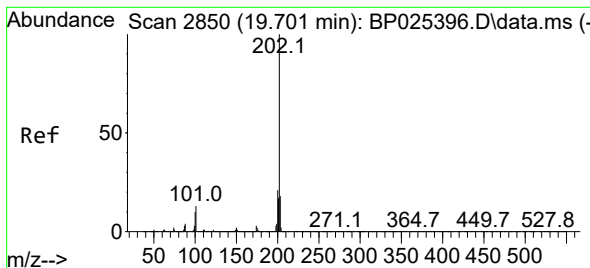


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.636 min Scan# 3179  
Delta R.T. -0.012 min  
Lab File: BP025615.D  
Acq: 28 Aug 2025 17:20



Tgt Ion:240 Resp: 979097  
Ion Ratio Lower Upper  
240 100  
120 10.3 8.9 13.3  
236 24.8 19.8 29.8





#78

Pyrene

Concen: 8.909 ng

RT: 19.701 min Scan# 2850

Delta R.T. 0.000 min

Lab File: BP025615.D

Acq: 28 Aug 2025 17:20

Instrument :

BNA\_P

ClientSampleId :

TP8

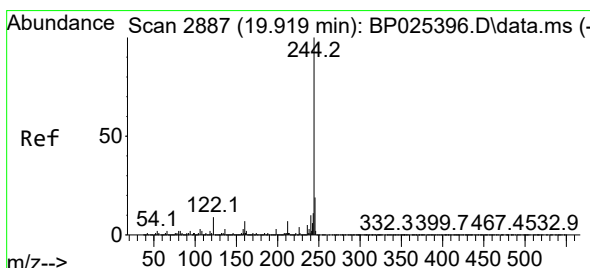
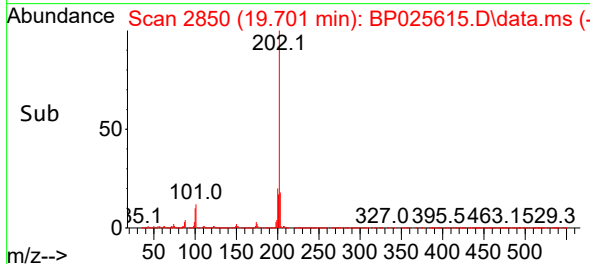
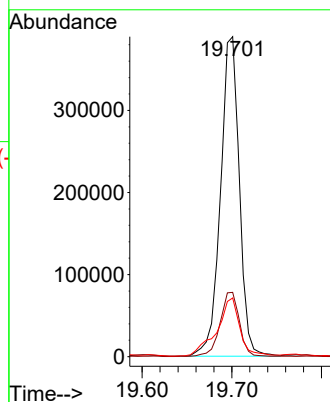
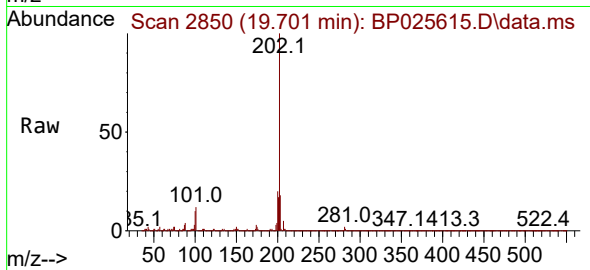
Tgt Ion:202 Resp: 566954  
 Ion Ratio Lower Upper  
 202 100  
 200 20.1 16.9 25.3  
 203 18.4 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/29/2025

Supervised By :Jagrut Upadhyay 08/29/2025



#79

Terphenyl-d14

Concen: 40.452 ng

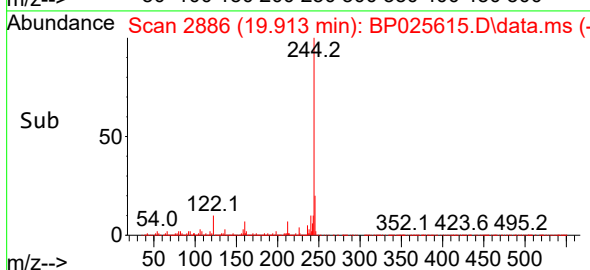
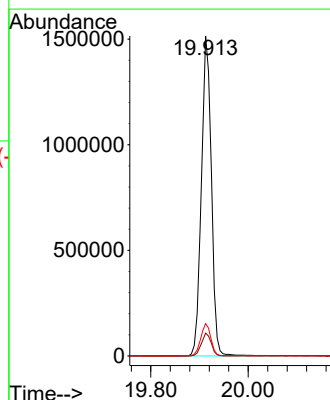
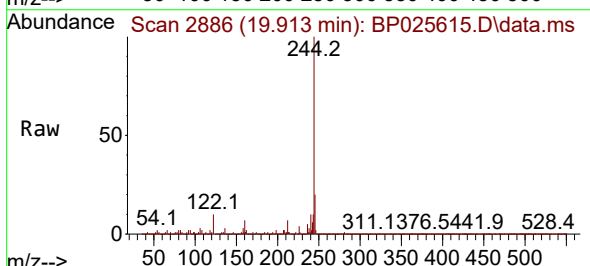
RT: 19.913 min Scan# 2886

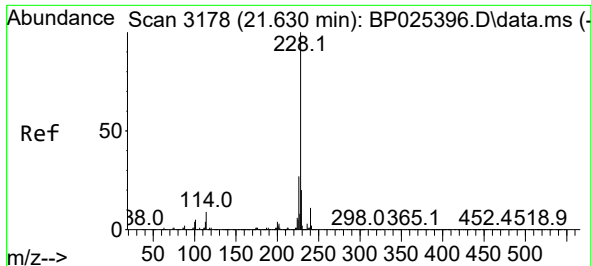
Delta R.T. -0.006 min

Lab File: BP025615.D

Acq: 28 Aug 2025 17:20

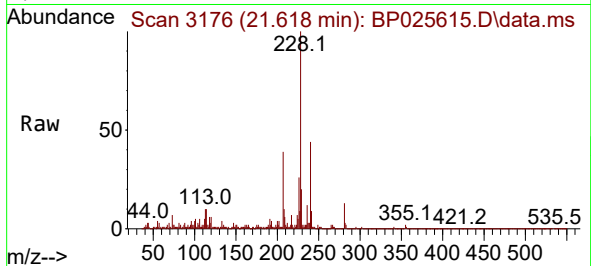
Tgt Ion:244 Resp: 2164817  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 5.8 8.6  
 122 10.1 7.4 11.2





#81  
Benzo(a)anthracene  
Concen: 4.759 ng  
RT: 21.618 min Scan# 3176  
Delta R.T. -0.012 min  
Lab File: BP025615.D  
Acq: 28 Aug 2025 17:20

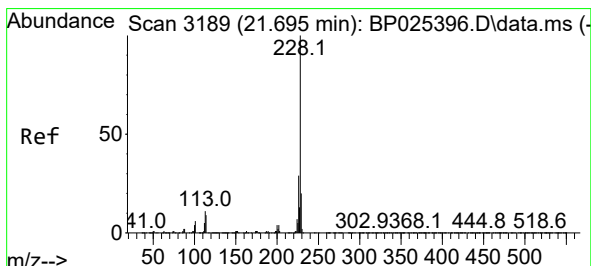
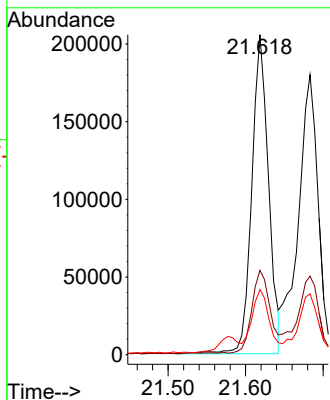
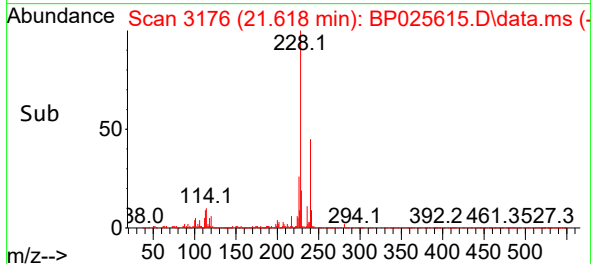
Instrument :  
BNA\_P  
ClientSampleId :  
TP8



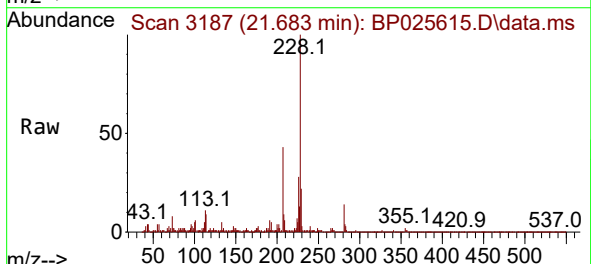
Tgt Ion:228 Resp: 307278  
Ion Ratio Lower Upper  
228 100  
226 26.4 21.7 32.5  
229 20.3 15.6 23.4

Manual Integrations  
APPROVED

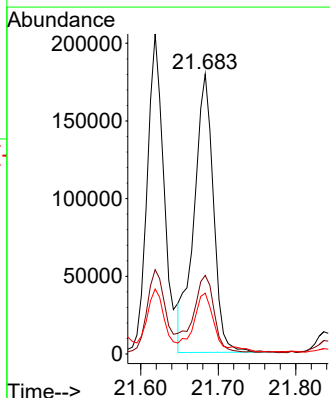
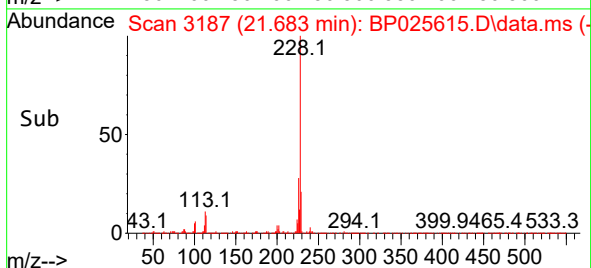
Reviewed By :Rahul Chavli 08/29/2025  
Supervised By :Jagrut Upadhyay 08/29/2025

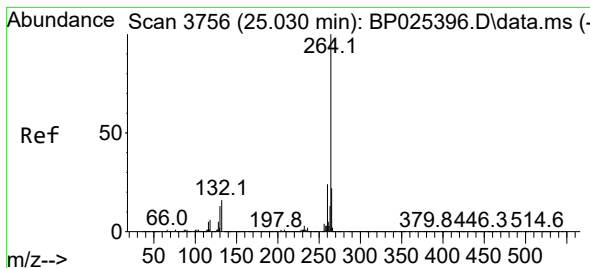


#83  
Chrysene  
Concen: 5.161 ng  
RT: 21.683 min Scan# 3187  
Delta R.T. -0.012 min  
Lab File: BP025615.D  
Acq: 28 Aug 2025 17:20



Tgt Ion:228 Resp: 312070  
Ion Ratio Lower Upper  
228 100  
226 28.1 23.2 34.8  
229 21.7 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.012 min Scan# 31

Delta R.T. -0.018 min

Lab File: BP025615.D

Acq: 28 Aug 2025 17:20

Instrument :

BNA\_P

ClientSampleId :

TP8

Tgt Ion:264 Resp: 112091

Ion Ratio Lower Upper

264 100

260 23.6 19.3 28.9

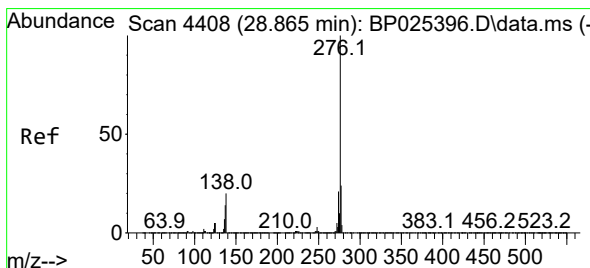
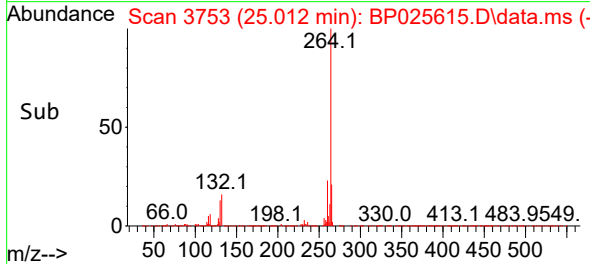
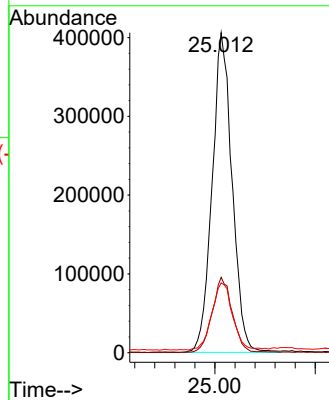
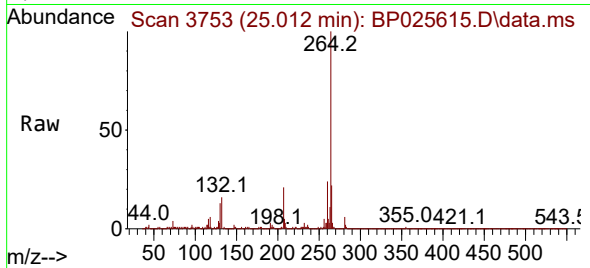
265 21.8 17.4 26.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/29/2025

Supervised By :Jagrut Upadhyay 08/29/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.785 ng

RT: 28.842 min Scan# 4404

Delta R.T. -0.024 min

Lab File: BP025615.D

Acq: 28 Aug 2025 17:20

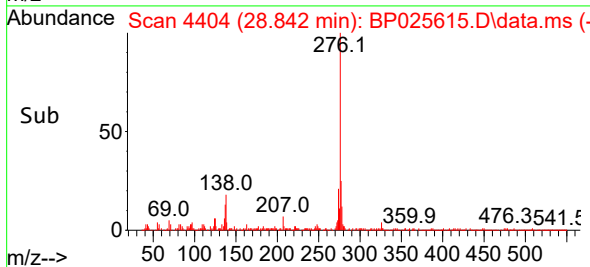
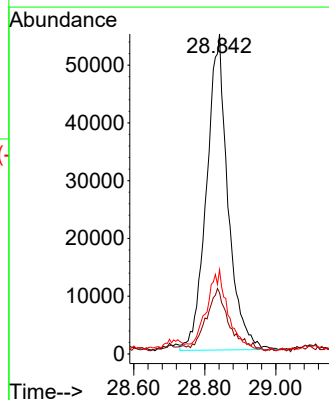
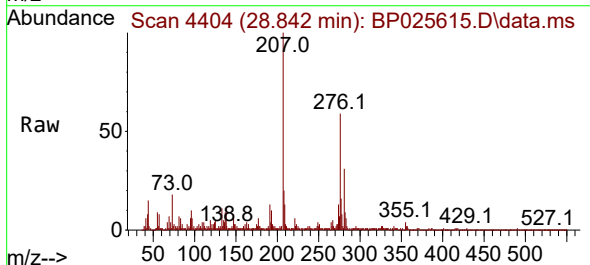
Tgt Ion:276 Resp: 228931

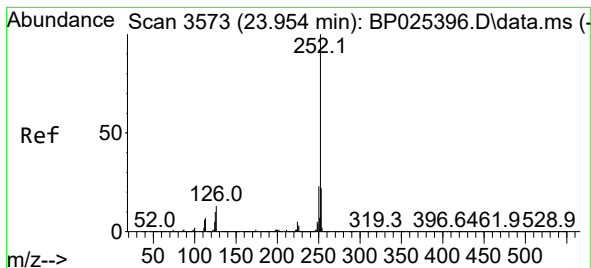
Ion Ratio Lower Upper

276 100

138 21.1 12.9 19.3#

277 24.0 17.0 25.6





#88

Benzo(b)fluoranthene

Concen: 6.003 ng

RT: 23.954 min Scan# 3573

Delta R.T. 0.000 min

Lab File: BP025615.D

Acq: 28 Aug 2025 17:20

Instrument :

BNA\_P

ClientSampleId :

TP8

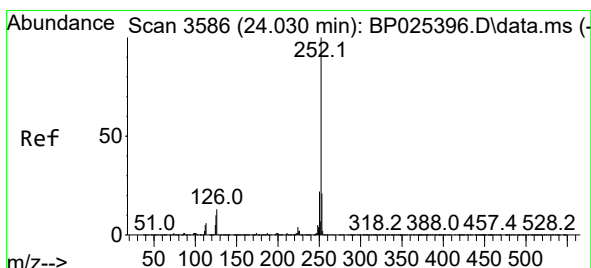
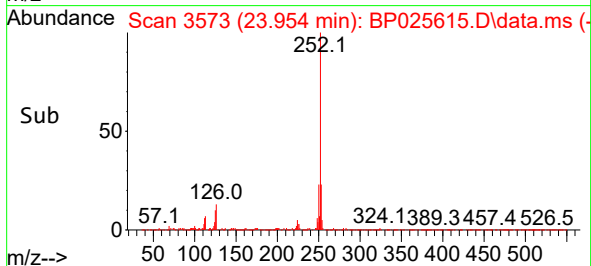
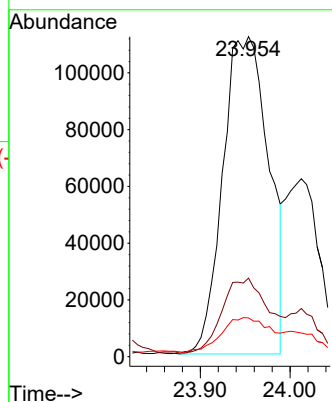
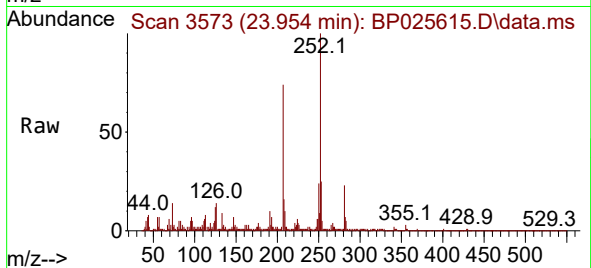
Tgt Ion:252 Resp: 396754  
 Ion Ratio Lower Upper  
 252 100  
 253 24.5 17.7 26.5  
 125 12.1 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/29/2025

Supervised By :Jagrut Upadhyay 08/29/2025



#89

Benzo(k)fluoranthene

Concen: 2.449 ng m

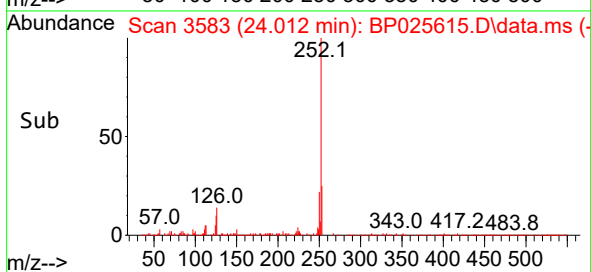
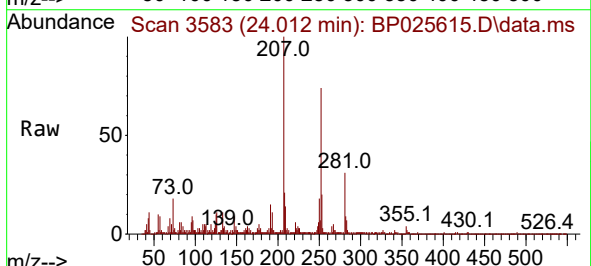
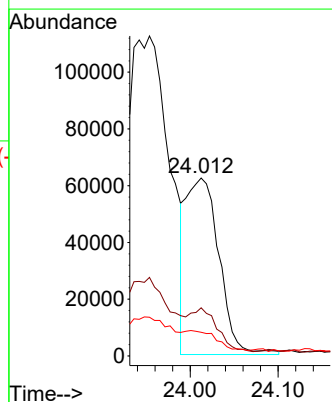
RT: 24.012 min Scan# 3583

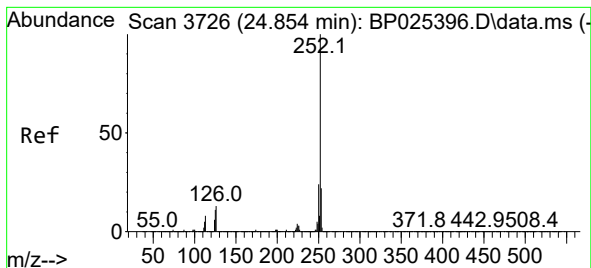
Delta R.T. -0.018 min

Lab File: BP025615.D

Acq: 28 Aug 2025 17:20

Tgt Ion:252 Resp: 162007  
 Ion Ratio Lower Upper  
 252 100  
 253 27.1 17.1 25.7#  
 125 13.3 7.8 11.6#





#90

Benzo(a)pyrene

Concen: 4.803 ng

RT: 24.848 min Scan# 31

Delta R.T. -0.006 min

Lab File: BP025615.D

Acq: 28 Aug 2025 17:20

Instrument :

BNA\_P

ClientSampleId :

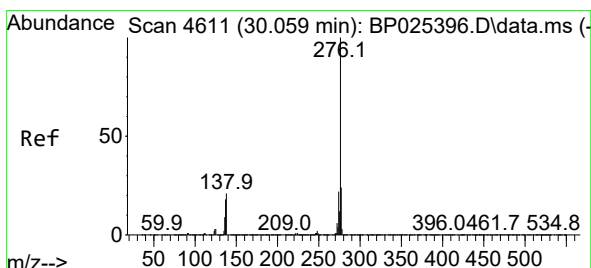
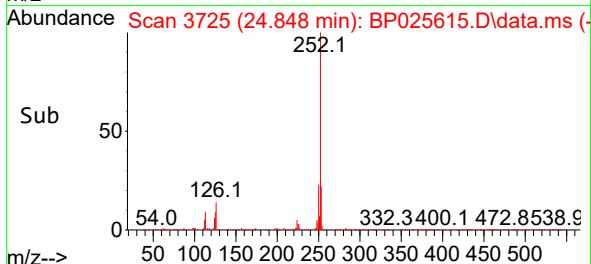
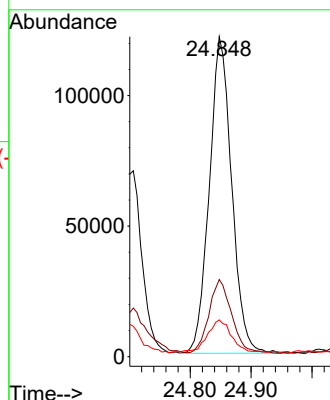
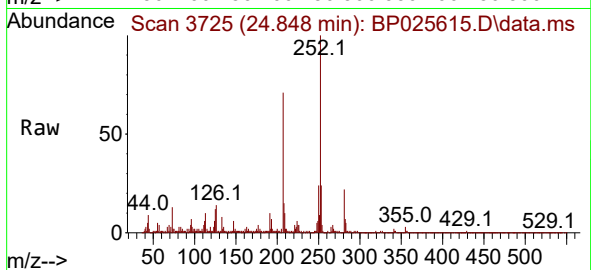
TP8

Tgt Ion:252 Resp: 309040  
 Ion Ratio Lower Upper  
 252 100  
 253 24.1 17.5 26.3  
 125 11.5 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/29/2025  
 Supervised By :Jagrut Upadhyay 08/29/2025



#92

Benzo(g,h,i)perylene

Concen: 3.321 ng

RT: 30.030 min Scan# 4606

Delta R.T. -0.029 min

Lab File: BP025615.D

Acq: 28 Aug 2025 17:20

Tgt Ion:276 Resp: 219286  
 Ion Ratio Lower Upper  
 276 100  
 277 25.1 19.4 29.0  
 138 20.8 16.7 25.1

