

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
 Data File : BN037018.D  
 Acq On : 14 May 2025 18:36  
 Operator : RC/JU  
 Sample : Q2012-03  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP303-20250509

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 05/15/2025  
 Supervised By :Jagrut Upadhyay 05/15/2025

Quant Time: May 15 01:24:59 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 14 11:26:32 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|------|-------|----------|
| -----                         |        |      |          |      |       |          |
| Internal Standards            |        |      |          |      |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.618  | 152  | 1870     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.393 | 136  | 5136     | 0.40 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.266 | 164  | 2975     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.008 | 188  | 6024     | 0.40 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.206 | 240  | 5042     | 0.40 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.406 | 264  | 4333     | 0.40 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |      |       |          |
| 4) 2-Fluorophenol             | 5.213  | 112  | 726      | 0.15 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.795  | 99   | 545      | 0.09 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.771  | 82   | 1550     | 0.28 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.996 | 152  | 2021     | 0.28 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.755 | 330  | 393      | 0.30 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.883 | 172  | 3600     | 0.26 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.049 | 212  | 5943     | 0.36 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.653 | 244  | 6383     | 0.59 | ng    | 0.00     |
| Target Compounds              |        |      |          |      |       |          |
|                               |        |      |          |      |       | Qvalue   |
| 25) Phenanthrene              | 17.046 | 178  | 428      | 0.02 | ng    | # 90     |
| 26) Anthracene                | 17.145 | 178  | 364      | 0.02 | ng    | 96       |
| 28) Fluoranthene              | 19.077 | 202  | 1017     | 0.04 | ng    | # 50     |
| 30) Pyrene                    | 19.439 | 202  | 1047     | 0.05 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.188 | 228  | 1392     | 0.07 | ng    | 93       |
| 33) Chrysene                  | 21.242 | 228  | 1828     | 0.09 | ng    | 97       |
| 34) Bis(2-ethylhexyl)phtha... | 21.135 | 149  | 7263     | 0.62 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.617 | 276  | 1470     | 0.08 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.749 | 252  | 1324     | 0.07 | ng    | # 61     |
| 38) Benzo(k)fluoranthene      | 22.792 | 252  | 1515m    | 0.09 | ng    |          |
| 39) Benzo(a)pyrene            | 23.313 | 252  | 1115     | 0.07 | ng    | # 55     |
| 40) Dibenzo(a,h)anthracene    | 25.637 | 278  | 1211     | 0.09 | ng    | # 67     |
| 41) Benzo(g,h,i)perylene      | 26.295 | 276  | 1249     | 0.08 | ng    | # 83     |
| -----                         |        |      |          |      |       |          |

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

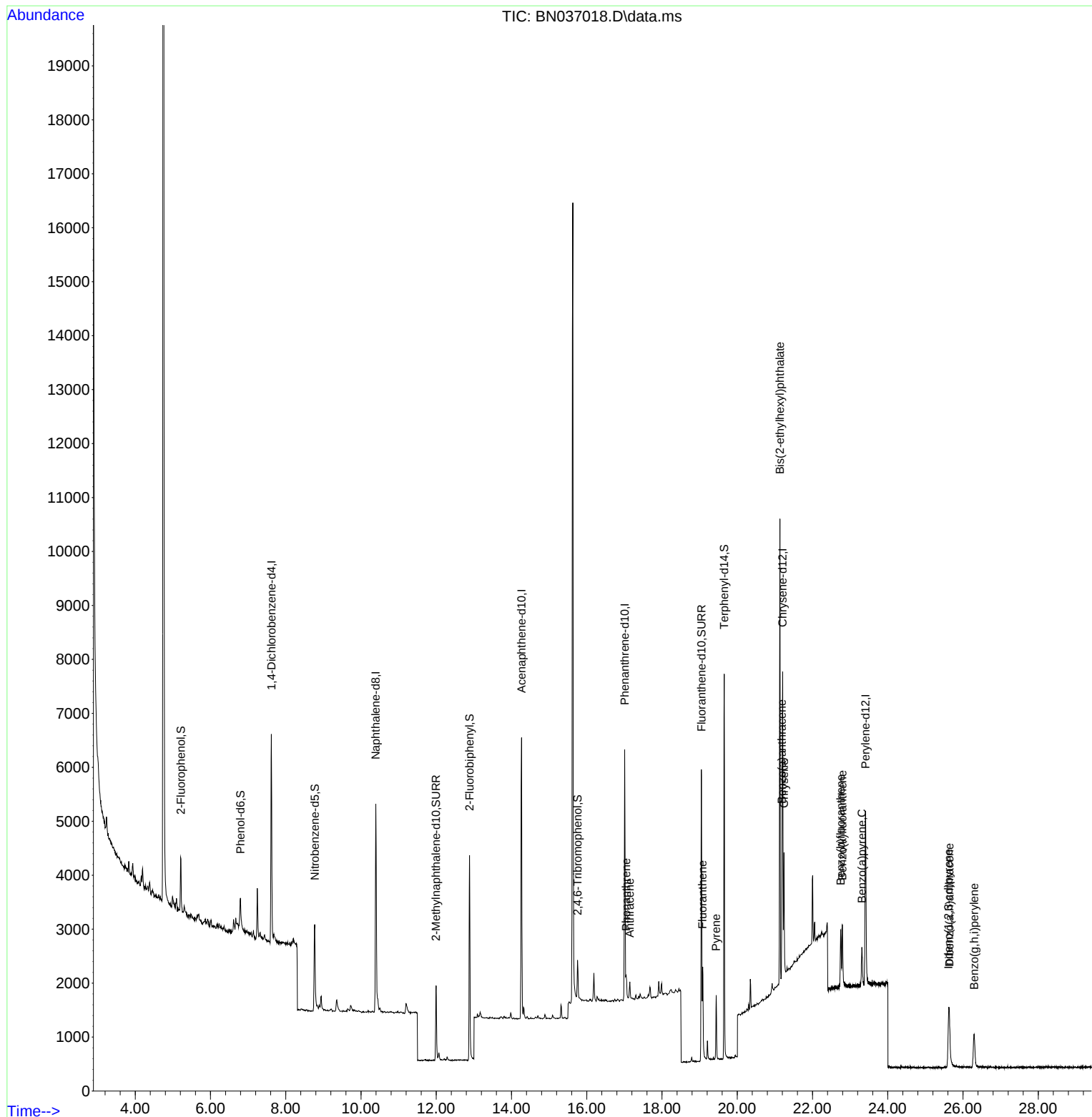
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN051425\  
Data File : BN037018.D  
Acq On : 14 May 2025 18:36  
Operator : RC/JU  
Sample : Q2012-03  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

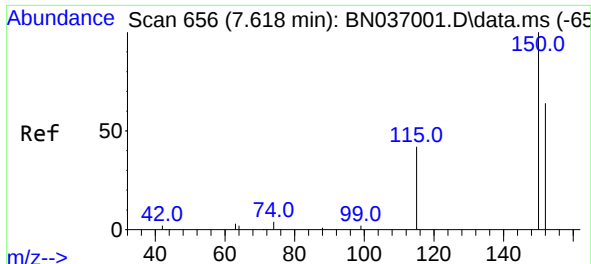
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20250509

Quant Time: May 15 01:24:59 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN051425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 14 11:26:32 2025  
Response via : Initial Calibration

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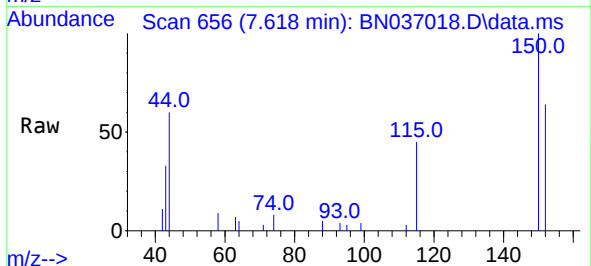
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.40 ng  
RT: 7.618 min Scan# 656  
Delta R.T. 0.000 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36

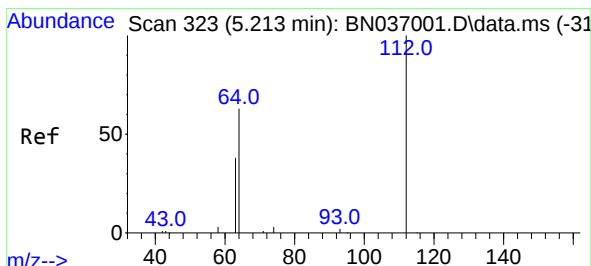
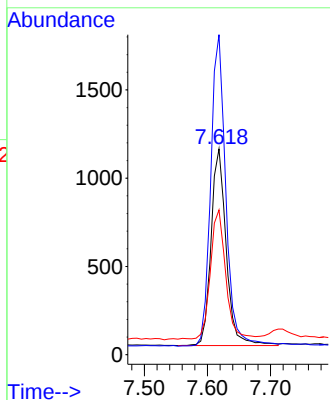
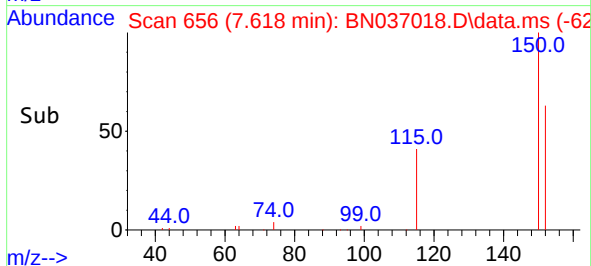
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20250509



Tgt Ion:152 Resp: 1870  
Ion Ratio Lower Upper  
152 100  
150 155.5 123.9 185.9  
115 70.4 55.8 83.8

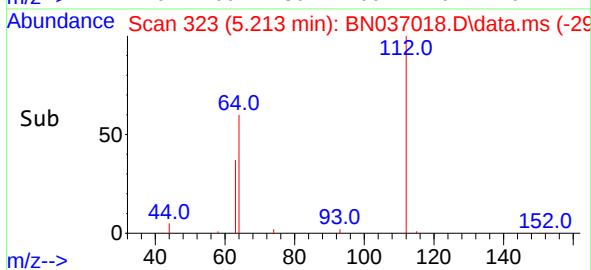
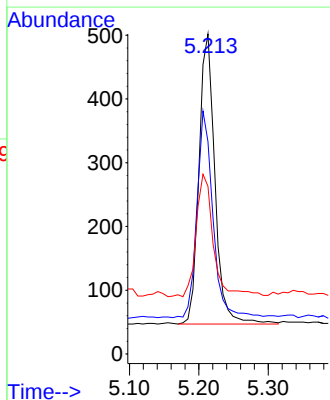
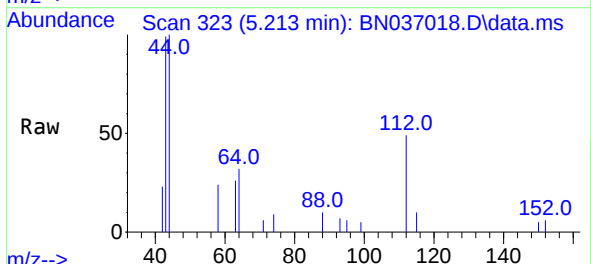
Manual Integrations  
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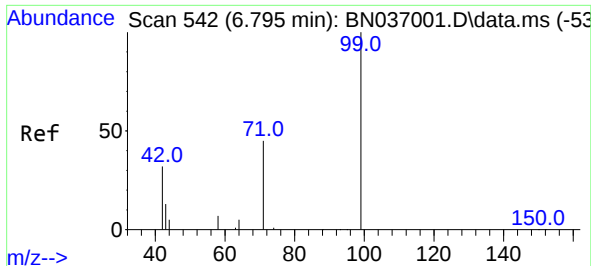
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025



#4  
2-Fluorophenol  
Concen: 0.15 ng  
RT: 5.213 min Scan# 323  
Delta R.T. 0.000 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36

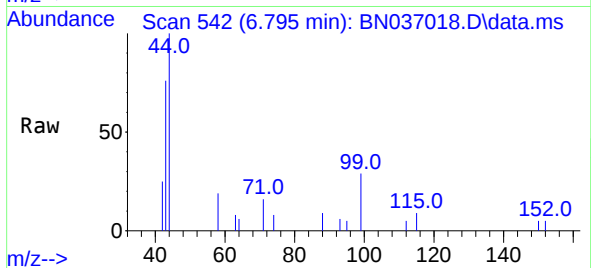
Tgt Ion:112 Resp: 726  
Ion Ratio Lower Upper  
112 100  
64 71.2 55.7 83.5  
63 44.5 34.6 51.8





#5  
Phenol-d6  
Concen: 0.09 ng  
RT: 6.795 min Scan# 542  
Delta R.T. -0.000 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36

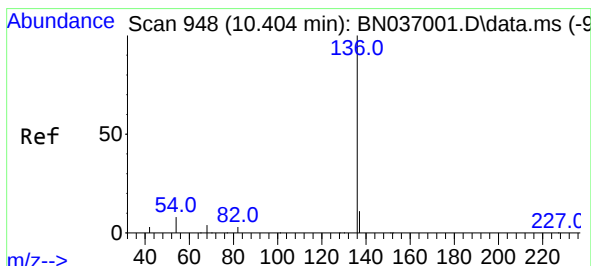
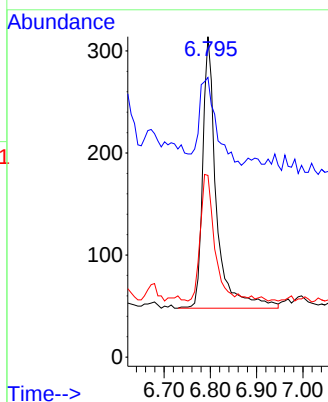
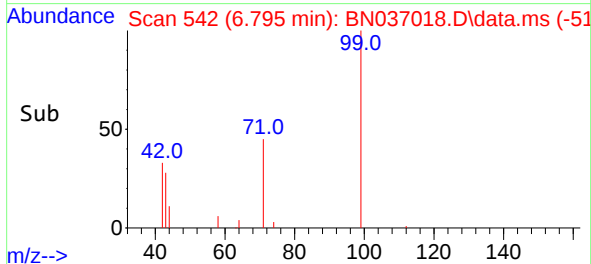
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20250509



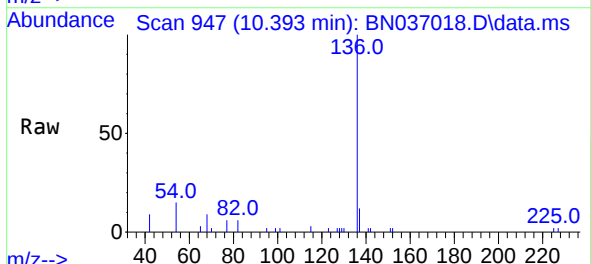
Tgt Ion: 99 Resp: 549  
Ion Ratio Lower Upper  
99 100  
42 39.6 29.3 43.9  
71 50.6 35.7 53.5

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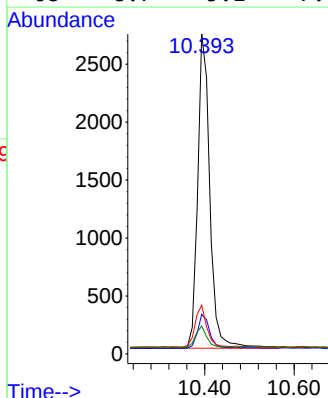
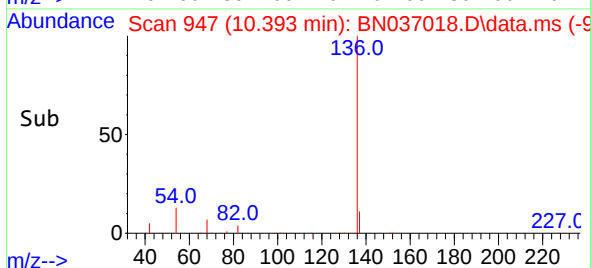
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025

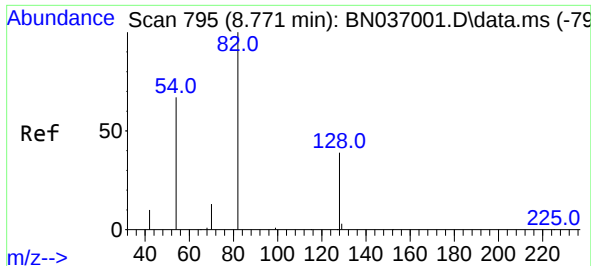


#7  
Naphthalene-d8  
Concen: 0.40 ng  
RT: 10.393 min Scan# 947  
Delta R.T. -0.011 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36



Tgt Ion:136 Resp: 5136  
Ion Ratio Lower Upper  
136 100  
137 12.4 10.4 15.6  
54 15.2 8.5 12.7#  
68 8.7 5.1 7.7#





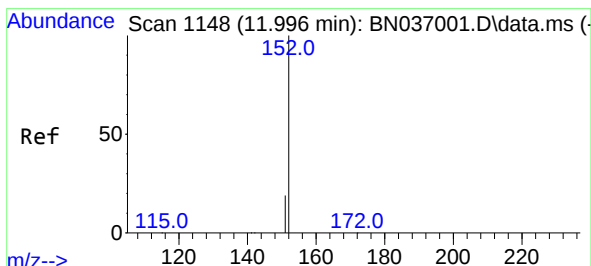
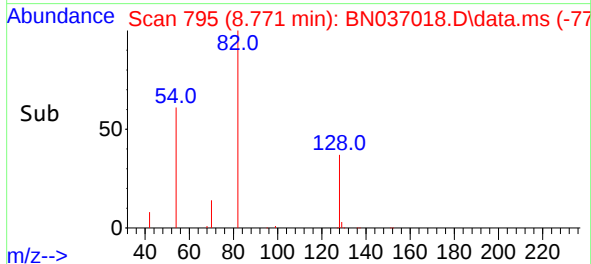
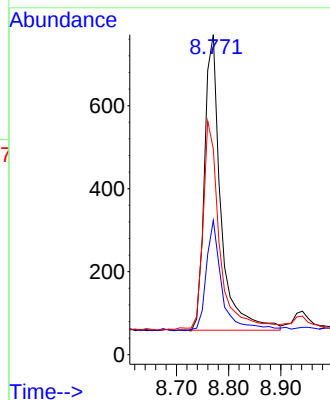
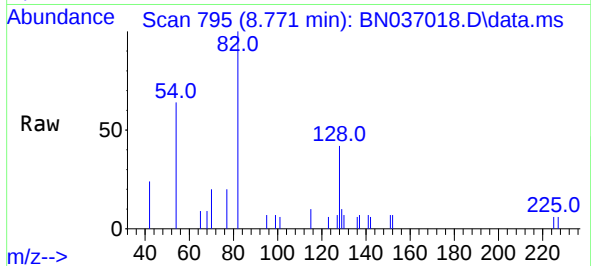
#8  
Nitrobenzene-d5  
Concen: 0.28 ng  
RT: 8.771 min Scan# 795  
Delta R.T. -0.000 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36

Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20250509

Tgt Ion: 82 Resp: 1550  
Ion Ratio Lower Upper  
82 100  
128 42.0 34.0 51.0  
54 64.3 55.0 82.4

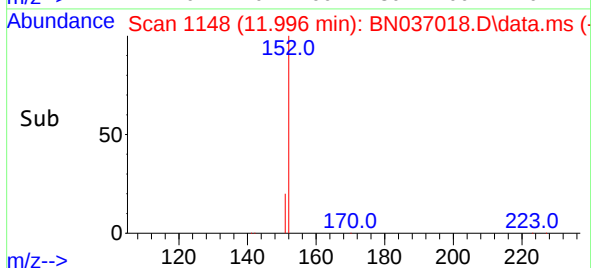
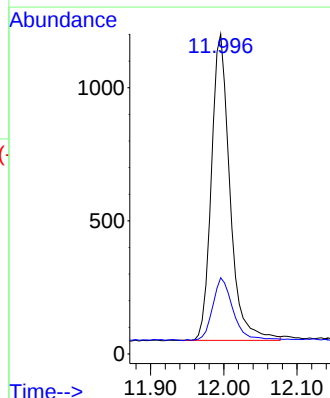
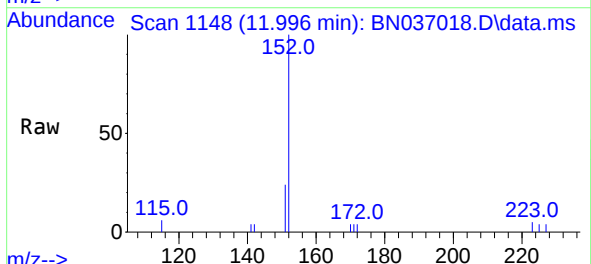
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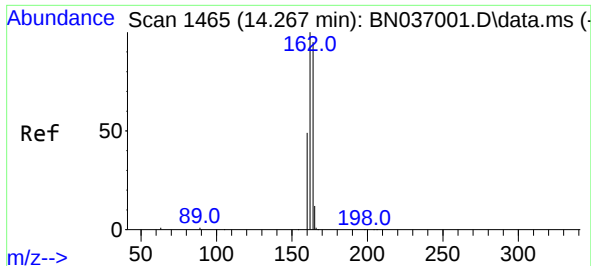
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025



#11  
2-Methylnaphthalene-d10  
Concen: 0.28 ng  
RT: 11.996 min Scan# 1148  
Delta R.T. -0.000 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36

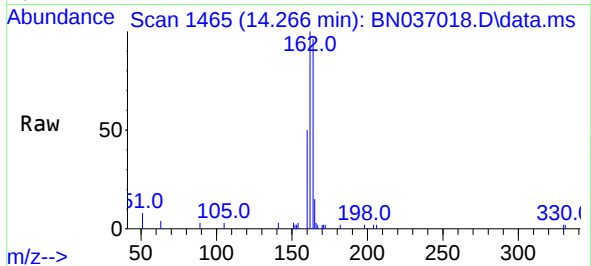
Tgt Ion:152 Resp: 2021  
Ion Ratio Lower Upper  
152 100  
151 23.4 17.5 26.3





#13  
Acenaphthene-d10  
Concen: 0.40 ng  
RT: 14.266 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36

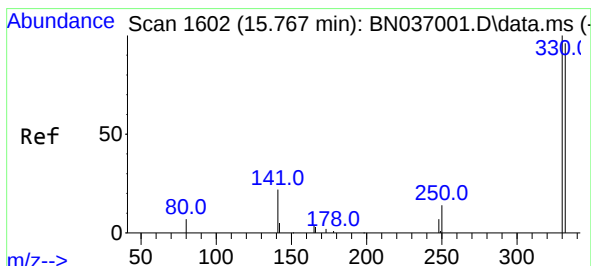
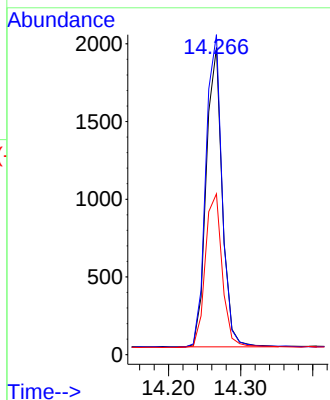
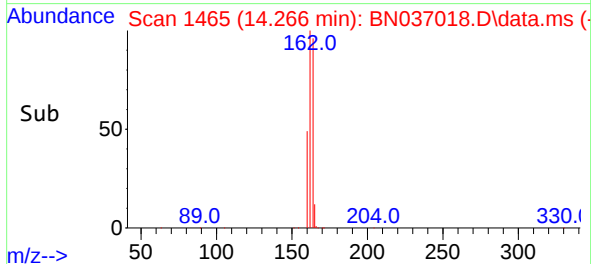
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20250509



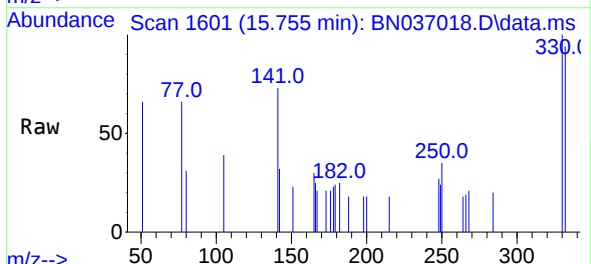
Tgt Ion:164 Resp: 297  
Ion Ratio Lower Upper  
164 100  
162 104.2 84.2 126.4  
160 52.4 42.6 63.8

Manual Integrations  
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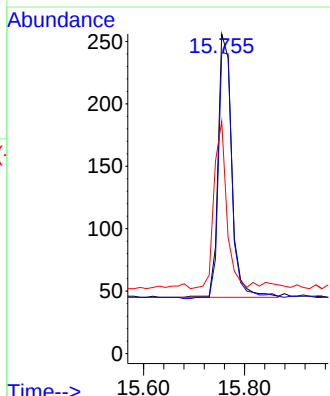
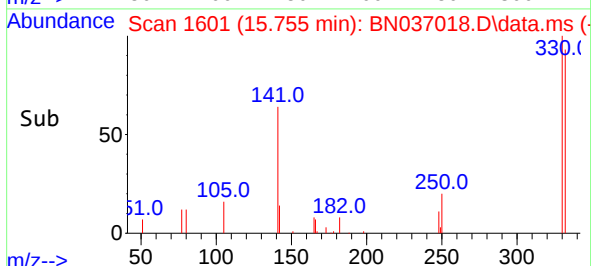
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025

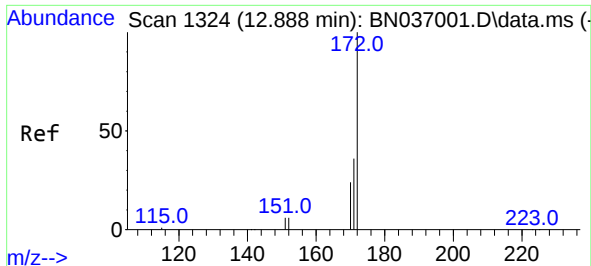


#14  
2,4,6-Tribromophenol  
Concen: 0.30 ng  
RT: 15.755 min Scan# 1601  
Delta R.T. -0.012 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36



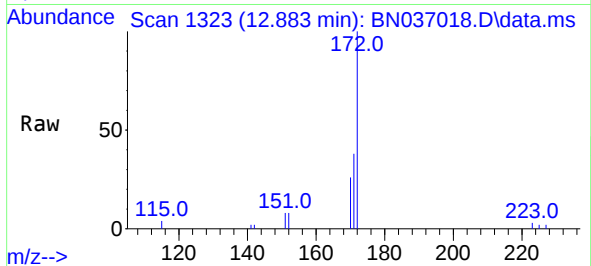
Tgt Ion:330 Resp: 393  
Ion Ratio Lower Upper  
330 100  
332 96.7 73.8 110.8  
141 59.0 43.9 65.9





#15  
2-Fluorobiphenyl  
Concen: 0.26 ng  
RT: 12.883 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36

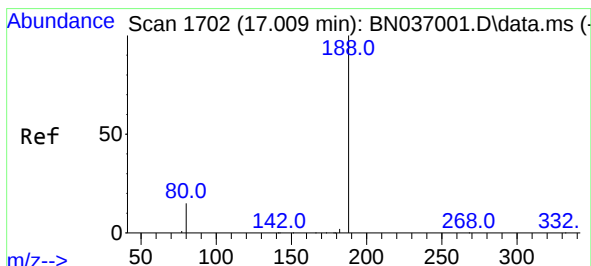
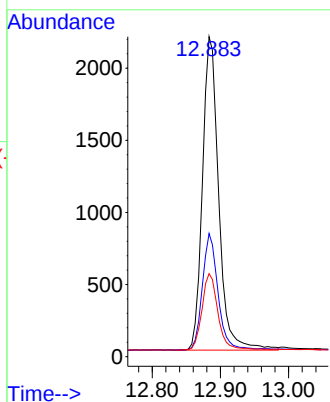
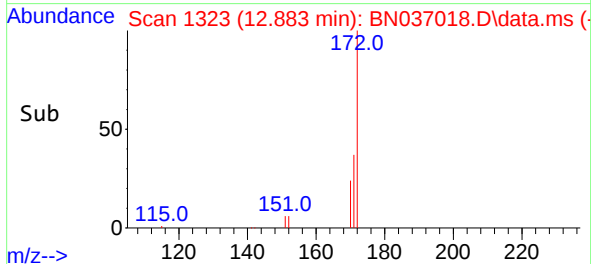
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20250509



Tgt Ion:172 Resp: 3600  
Ion Ratio Lower Upper  
172 100  
171 38.5 29.2 43.8  
170 26.0 20.5 30.7

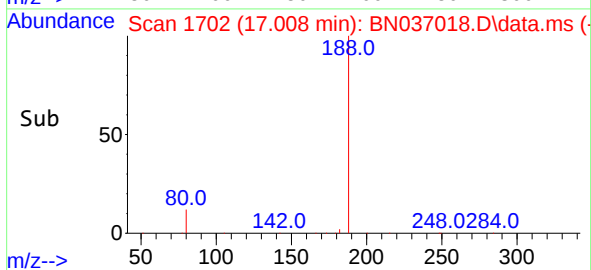
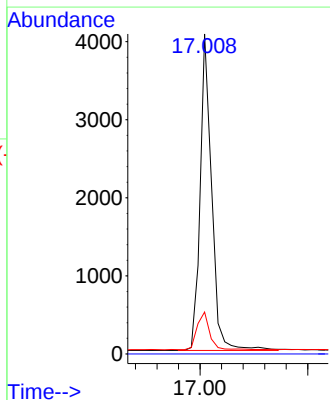
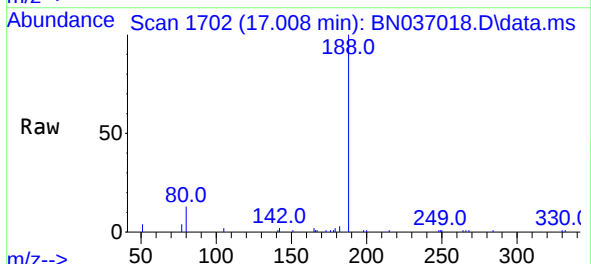
Manual Integrations  
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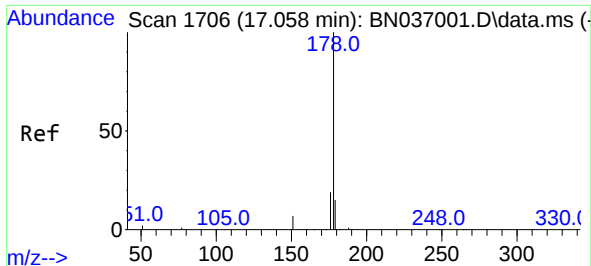
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025



#19  
Phenanthrene-d10  
Concen: 0.40 ng  
RT: 17.008 min Scan# 1702  
Delta R.T. -0.000 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36

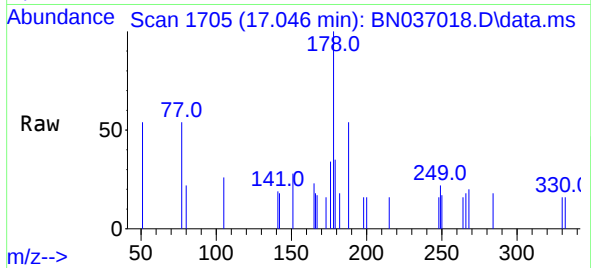
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Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 13.1 13.4 20.0#





#25  
Phenanthrene  
Concen: 0.02 ng  
RT: 17.046 min Scan# 1705  
Delta R.T. -0.012 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36

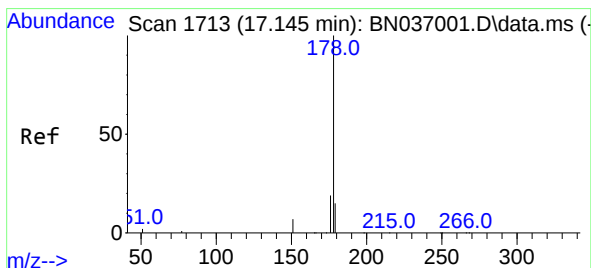
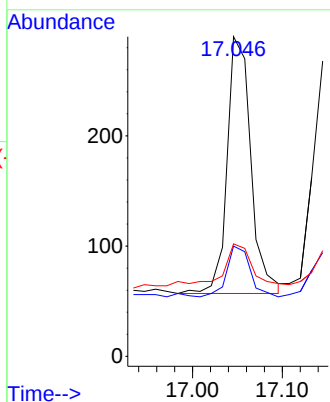
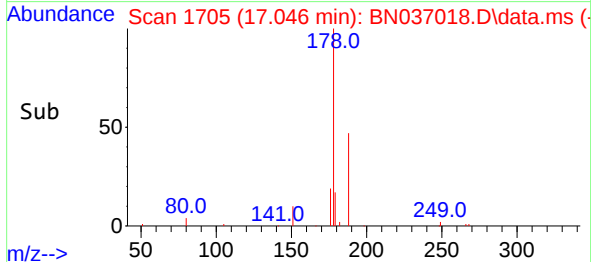
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20250509



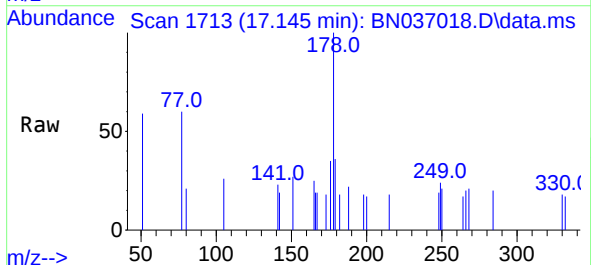
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Ion Ratio Lower Upper  
178 100  
176 19.4 15.7 23.5  
179 24.3 12.2 18.2

Manual Integrations  
APPROVED

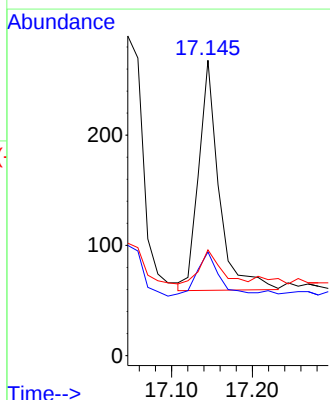
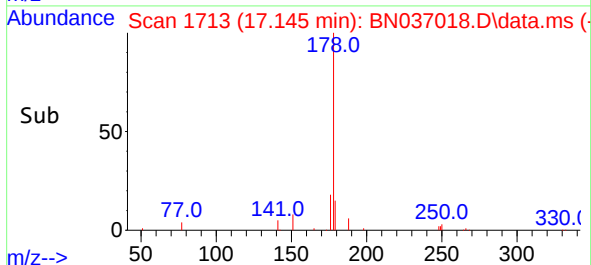
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025

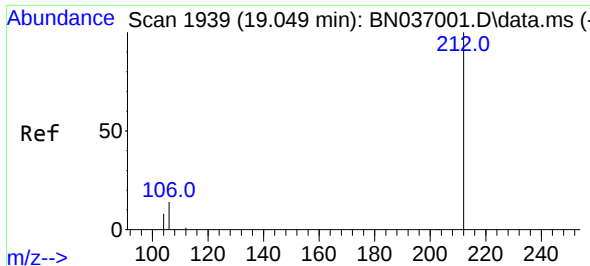


#26  
Anthracene  
Concen: 0.02 ng  
RT: 17.145 min Scan# 1713  
Delta R.T. -0.000 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36



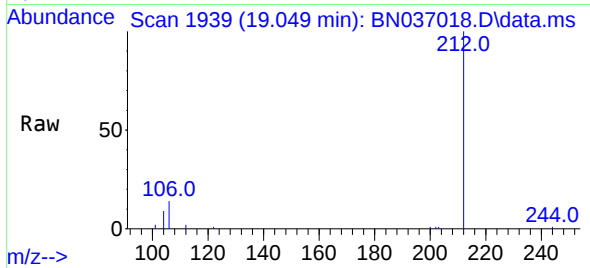
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Ion Ratio Lower Upper  
178 100  
176 22.0 15.0 22.6  
179 15.1 12.3 18.5





#27  
Fluoranthene-d10  
Concen: 0.36 ng  
RT: 19.049 min Scan# 1939  
Delta R.T. -0.000 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36

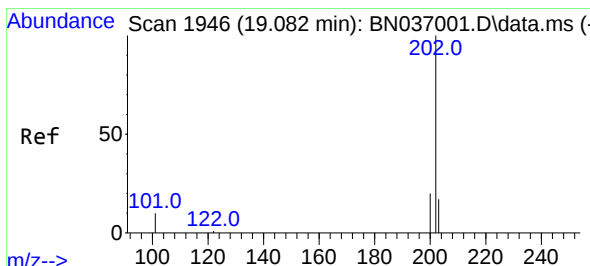
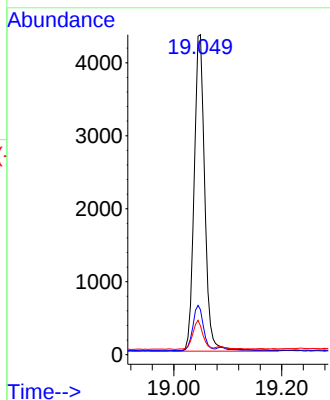
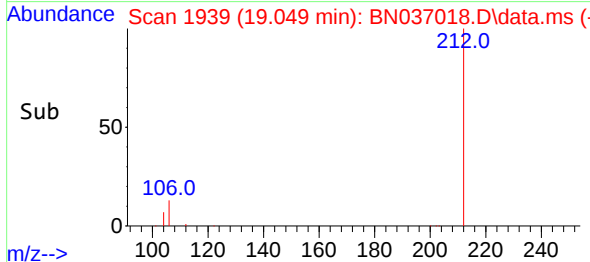
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20250509



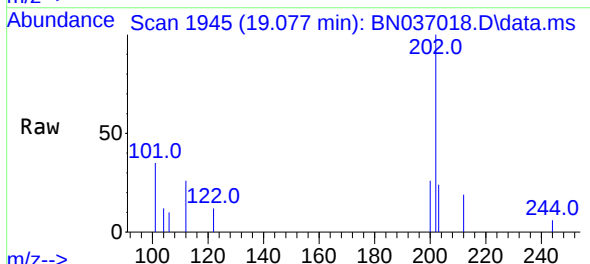
Tgt Ion:212 Resp: 594.0  
Ion Ratio Lower Upper  
212 100  
106 14.0 11.3 16.9  
104 8.8 6.7 10.1

Manual Integrations  
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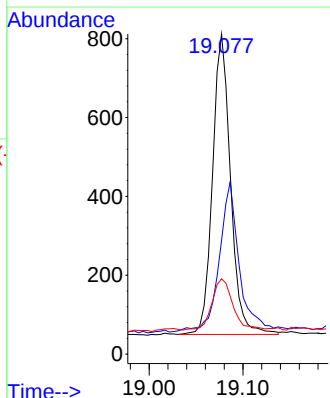
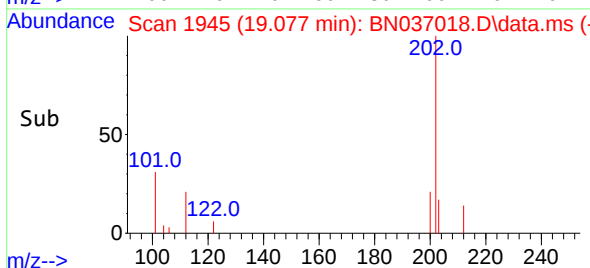
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025

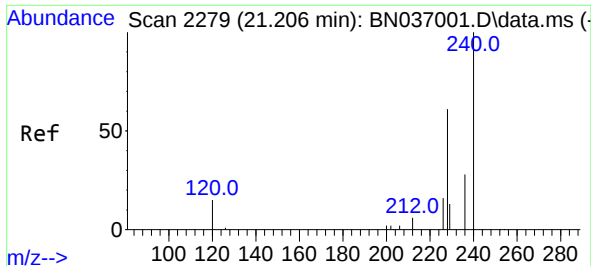


#28  
Fluoranthene  
Concen: 0.04 ng  
RT: 19.077 min Scan# 1945  
Delta R.T. -0.005 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36



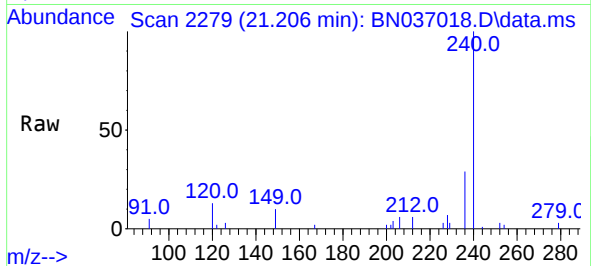
Tgt Ion:202 Resp: 1017  
Ion Ratio Lower Upper  
202 100  
101 56.5 8.9 13.3#  
203 19.8 13.8 20.8





#29  
Chrysene-d12  
Concen: 0.40 ng  
RT: 21.206 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36

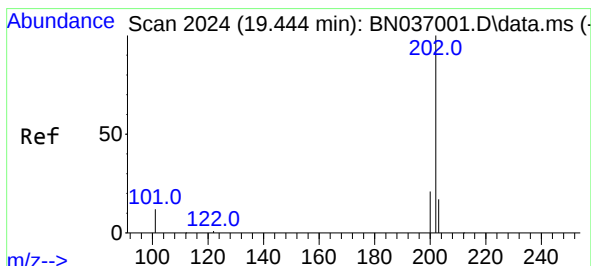
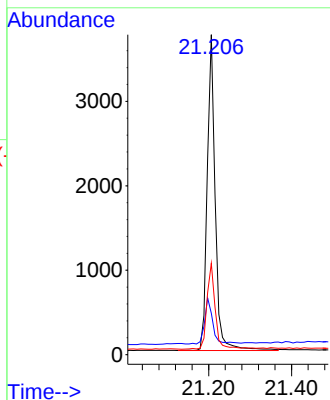
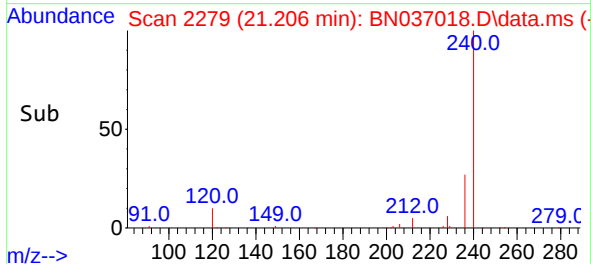
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20250509



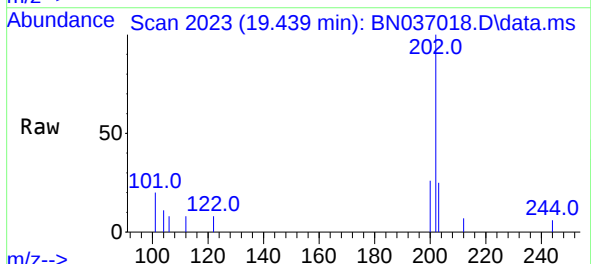
Tgt Ion:240 Resp: 504  
Ion Ratio Lower Upper  
240 100  
120 13.0 15.1 22.7  
236 28.5 24.0 36.0

Manual Integrations  
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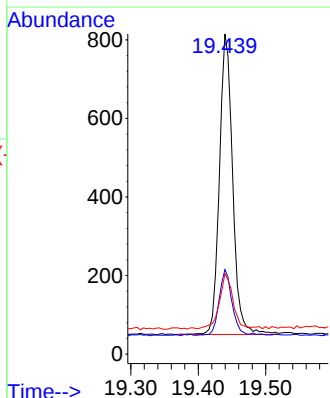
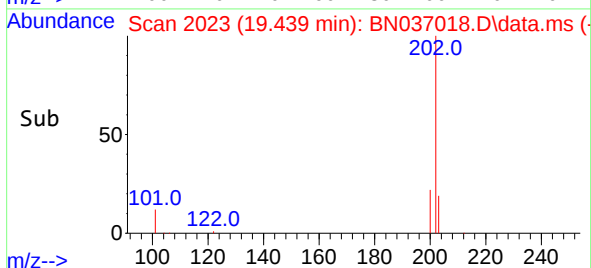
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025

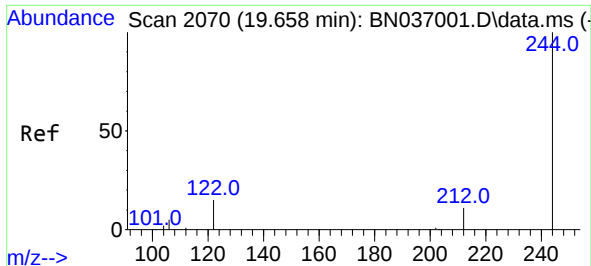


#30  
Pyrene  
Concen: 0.05 ng  
RT: 19.439 min Scan# 2023  
Delta R.T. -0.005 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36



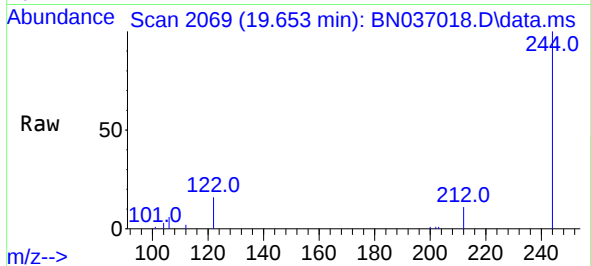
Tgt Ion:202 Resp: 1047  
Ion Ratio Lower Upper  
202 100  
200 20.9 17.1 25.7  
203 18.2 14.2 21.4





#31  
 Terphenyl-d14  
 Concen: 0.59 ng  
 RT: 19.653 min Scan# 2069  
 Delta R.T. -0.005 min  
 Lab File: BN037018.D  
 Acq: 14 May 2025 18:36

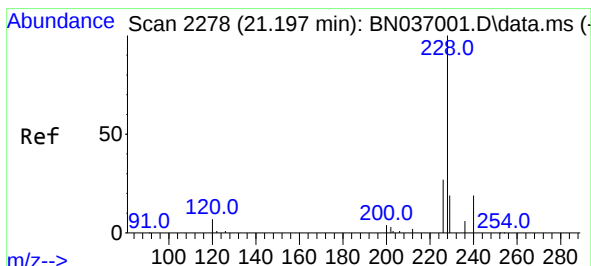
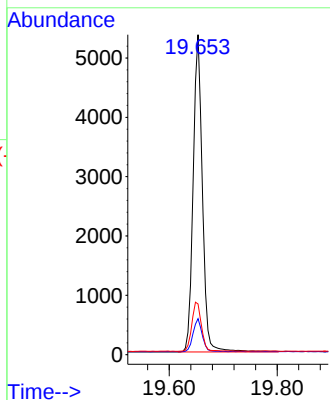
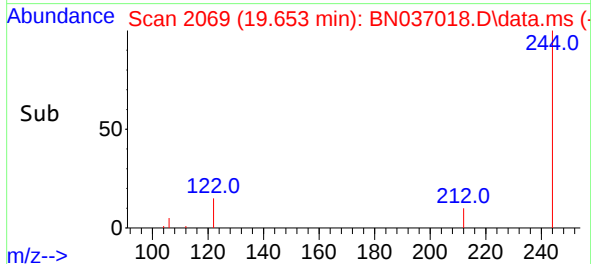
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP303-20250509



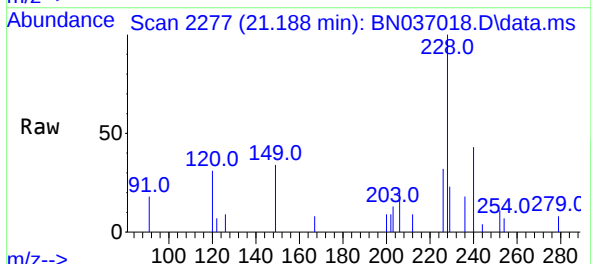
Tgt Ion:244 Resp: 638  
 Ion Ratio Lower Upper  
 244 100  
 212 11.3 9.7 14.5  
 122 15.9 13.4 20.0

Manual Integrations  
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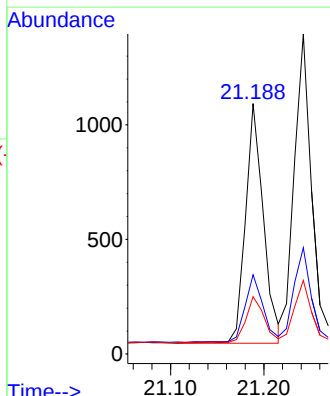
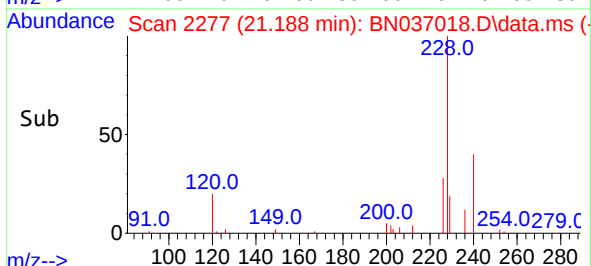
Reviewed By :Rahul Chavli 05/15/2025  
 Supervised By :Jagrut Upadhyay 05/15/2025

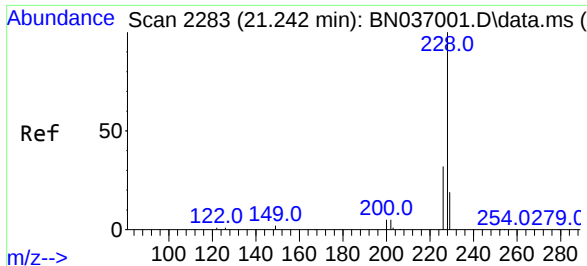


#32  
 Benzo(a)anthracene  
 Concen: 0.07 ng  
 RT: 21.188 min Scan# 2277  
 Delta R.T. -0.009 min  
 Lab File: BN037018.D  
 Acq: 14 May 2025 18:36



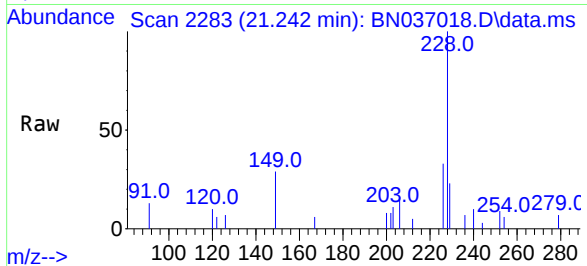
Tgt Ion:228 Resp: 1392  
 Ion Ratio Lower Upper  
 228 100  
 226 31.7 22.2 33.4  
 229 22.9 16.0 24.0





#33  
Chrysene  
Concen: 0.09 ng  
RT: 21.242 min Scan# 2128  
Delta R.T. -0.000 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36

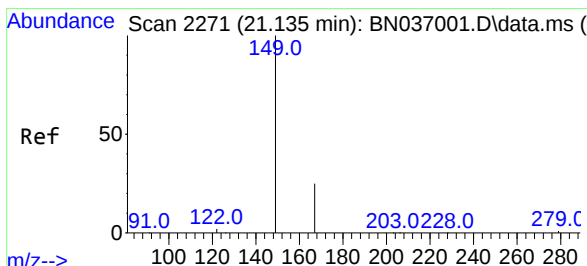
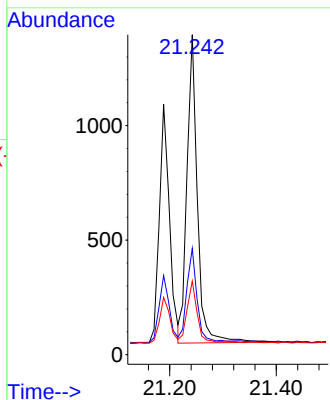
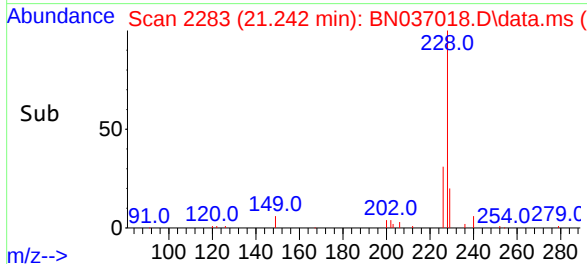
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20250509



Tgt Ion:228 Resp: 1828  
Ion Ratio Lower Upper  
228 100  
226 33.2 26.3 39.5  
229 23.0 16.2 24.2

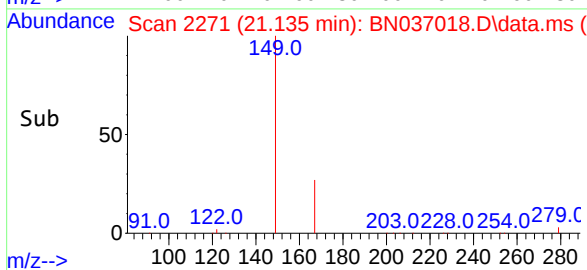
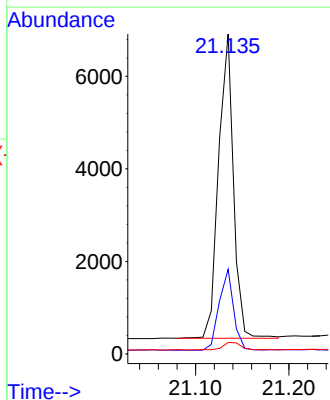
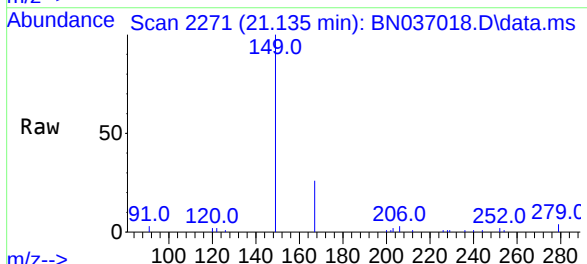
Manual Integrations  
APPROVED

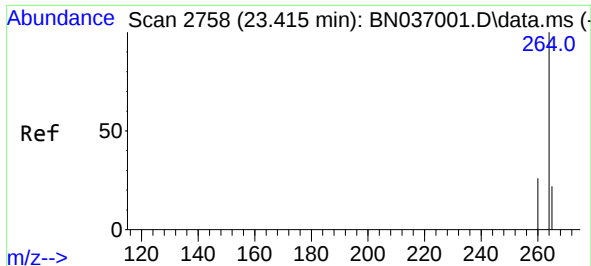
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.62 ng  
RT: 21.135 min Scan# 2271  
Delta R.T. -0.000 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36

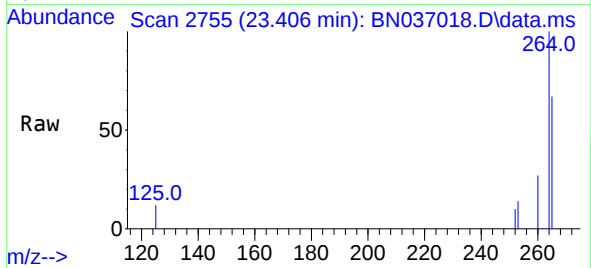
Tgt Ion:149 Resp: 7263  
Ion Ratio Lower Upper  
149 100  
167 26.0 20.6 30.8  
279 3.0 2.6 3.8





#35  
Perylene-d12  
Concen: 0.40 ng  
RT: 23.406 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36

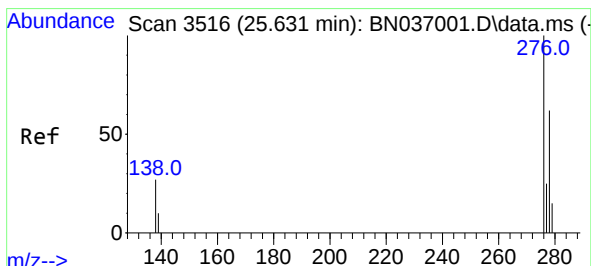
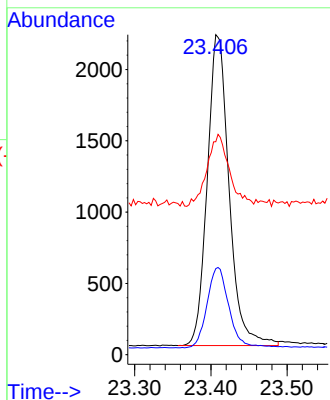
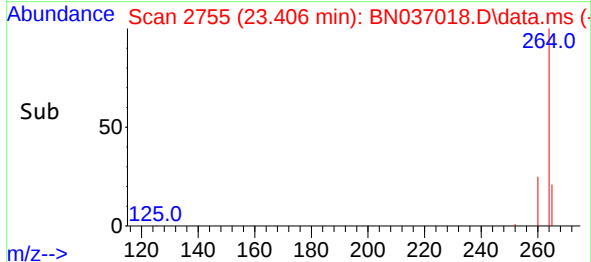
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20250509



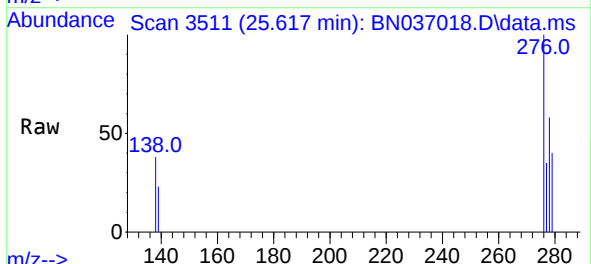
Tgt Ion:264 Resp: 433  
Ion Ratio Lower Upper  
264 100  
260 26.9 21.9 32.9  
265 66.6 51.6 77.4

Manual Integrations  
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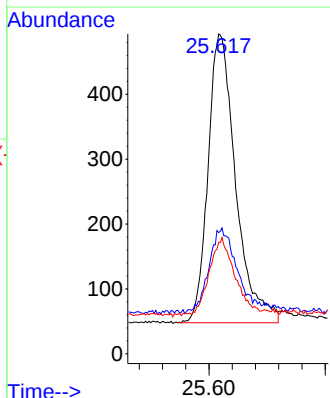
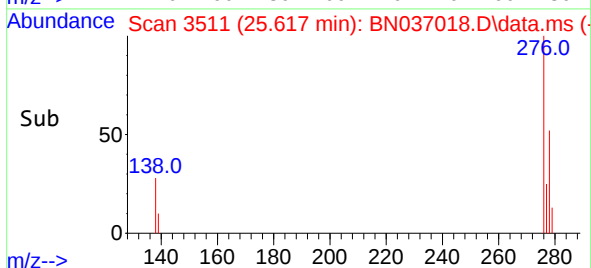
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025

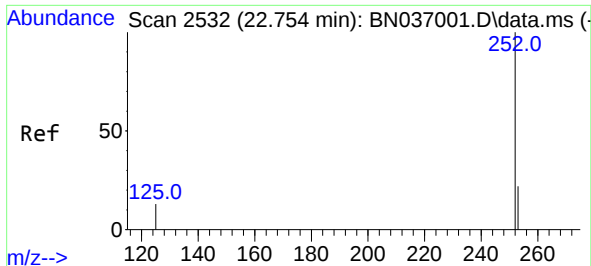


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.08 ng  
RT: 25.617 min Scan# 3511  
Delta R.T. -0.015 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36



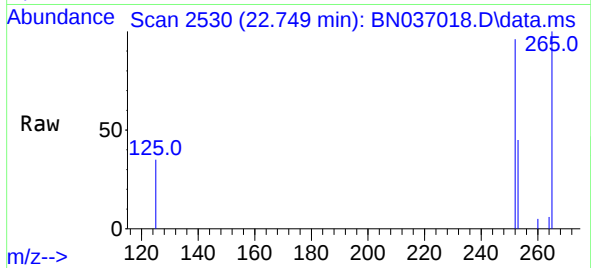
Tgt Ion:276 Resp: 1470  
Ion Ratio Lower Upper  
276 100  
138 30.5 22.7 34.1  
277 24.6 20.0 30.0





#37  
Benzo(b)fluoranthene  
Concen: 0.07 ng  
RT: 22.749 min Scan# 2532  
Delta R.T. -0.006 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36

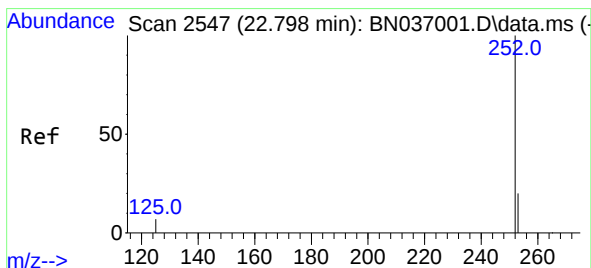
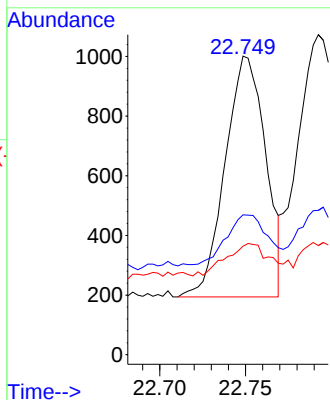
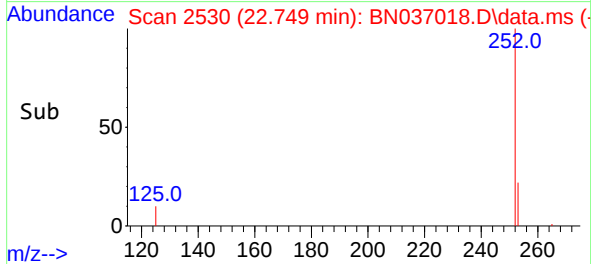
Instrument :  
BNA\_N  
ClientSampleId :  
RW5-SP303-20250509



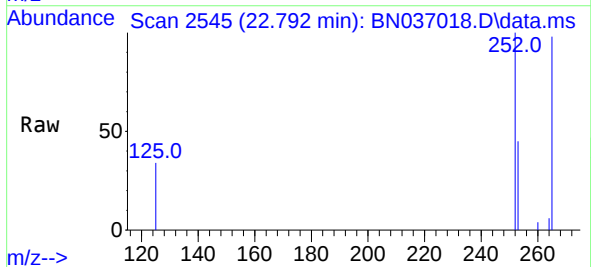
Tgt Ion:252 Resp: 1324  
Ion Ratio Lower Upper  
252 100  
253 46.9 21.8 32.6  
125 36.4 14.6 21.8

Manual Integrations  
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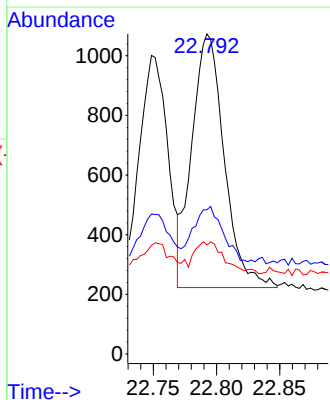
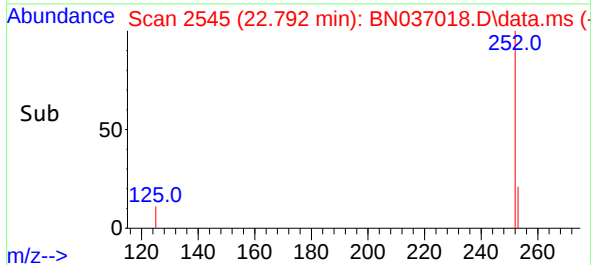
Reviewed By :Rahul Chavli 05/15/2025  
Supervised By :Jagrut Upadhyay 05/15/2025

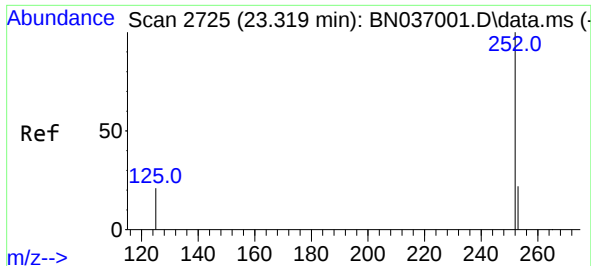


#38  
Benzo(k)fluoranthene  
Concen: 0.09 ng m  
RT: 22.792 min Scan# 2545  
Delta R.T. -0.006 min  
Lab File: BN037018.D  
Acq: 14 May 2025 18:36



Tgt Ion:252 Resp: 1515  
Ion Ratio Lower Upper  
252 100  
253 45.1 21.4 32.2#  
125 34.1 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 0.07 ng

RT: 23.313 min Scan# 2111

Delta R.T. -0.006 min

Lab File: BN037018.D

Acq: 14 May 2025 18:36

Instrument :

BNA\_N

ClientSampleId :

RW5-SP303-20250509

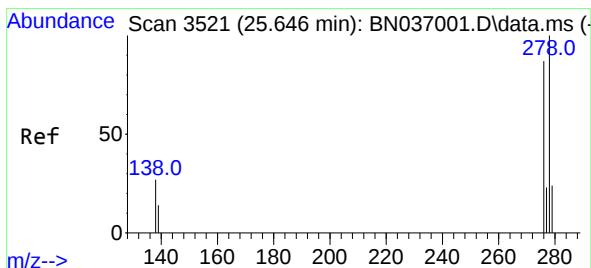
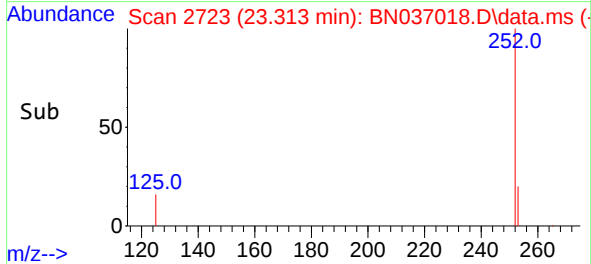
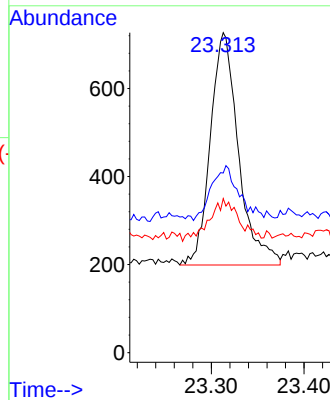
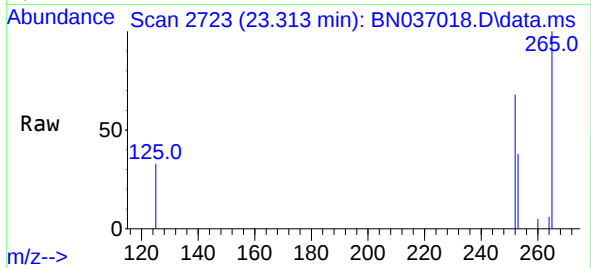
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 1111      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 56.1  | 23.8 35.6 |
| 125         | 48.1  | 21.8 32.6 |

Manual Integrations

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Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.09 ng

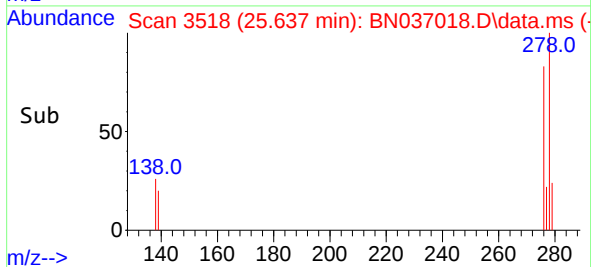
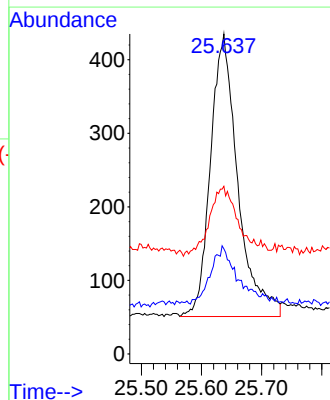
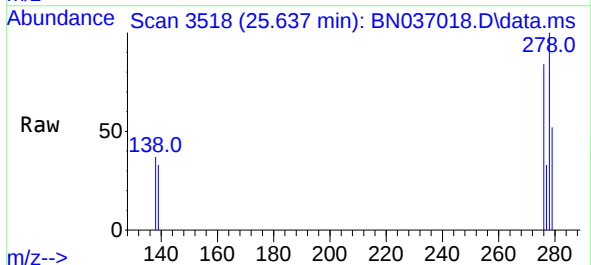
RT: 25.637 min Scan# 3518

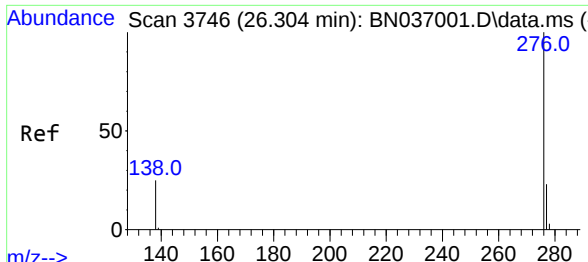
Delta R.T. -0.009 min

Lab File: BN037018.D

Acq: 14 May 2025 18:36

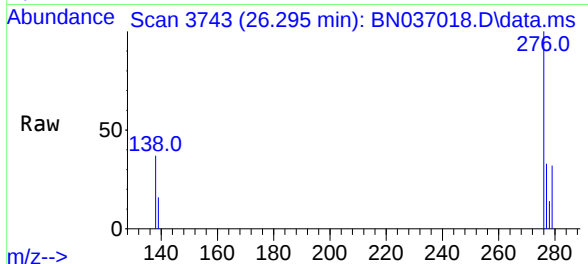
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:278 | Resp: | 1211      |
| Ion Ratio   | Lower | Upper     |
| 278         | 100   |           |
| 139         | 32.9  | 17.4 26.0 |
| 279         | 52.4  | 24.6 37.0 |





#41  
 Benzo(g,h,i)perylene  
 Concen: 0.08 ng  
 RT: 26.295 min Scan# 31  
 Delta R.T. -0.009 min  
 Lab File: BN037018.D  
 Acq: 14 May 2025 18:36

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW5-SP303-20250509



Tgt Ion:276 Resp: 1249  
 Ion Ratio Lower Upper  
 276 100  
 277 33.5 20.2 30.4  
 138 37.2 22.0 33.0

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 05/15/2025  
 Supervised By :Jagrut Upadhyay 05/15/2025

