

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070124\  
 Data File : BN032425.D  
 Acq On : 03 Jul 2024 06:22  
 Operator : MA/JU  
 Sample : P2963-11  
 Misc :  
 ALS Vial : 73 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4CR5

Manual Integrations  
 APPROVED

Reviewed By :Yogesh  
 Patel

Quant Time: Jul 03 06:54:02 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN062724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 03 03:26:42 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.603  | 152  | 8064     | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.376 | 136  | 26089    | 0.400  | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.248 | 164  | 15522    | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.007 | 188  | 26912m   | 0.400  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.211 | 240  | 16998m   | 0.400  | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.427 | 264  | 21106m   | 0.400  | ng/ul  | 0.00     |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.143  | 96   | 29430    | 3.283  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.976 | 152  | 10042    | 0.257  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.041 | 212  | 16093m   | 0.315  | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        |        | Qvalue   |
| 5) Naphthalene              | 10.426 | 128  | 30897    | 0.448  | ng/ul  | 100      |
| 7) 2-Methylnaphthalene      | 12.053 | 142  | 13614    | 0.298  | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.273 | 142  | 8570     | 0.181  | ng/ul  | 98       |
| 10) Acenaphthylene          | 13.971 | 152  | 63141    | 0.978  | ng/ul  | 99       |
| 11) Acenaphthene            | 14.313 | 153  | 13180    | 0.263  | ng/ul  | 98       |
| 12) Fluorene                | 15.308 | 166  | 19187    | 0.321  | ng/ul# | 99       |
| 15) Phenanthrene            | 17.045 | 178  | 441096m  | 5.978  | ng/ul  |          |
| 16) Anthracene              | 17.138 | 178  | 110676m  | 1.682  | ng/ul  |          |
| 19) Fluoranthene            | 19.073 | 202  | 841759m  | 13.005 | ng/ul  |          |
| 20) Pyrene                  | 19.440 | 202  | 632357m  | 9.349  | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.194 | 228  | 412117m  | 6.717  | ng/ul  |          |
| 22) Chrysene                | 21.246 | 228  | 452253m  | 6.716  | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 22.763 | 252  | 608973m  | 6.641  | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.804 | 252  | 209332m  | 2.350  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.333 | 252  | 242833m  | 3.806  | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.659 | 276  | 240352m  | 2.406  | ng/ul  |          |
| 28) Dibenzo(a,h)anthracene  | 25.663 | 278  | 85215m   | 1.148  | ng/ul  |          |
| 29) Benzo(g,h,i)perylene    | 26.354 | 276  | 35975m   | 0.452  | ng/ul  |          |
| -----                       |        |      |          |        |        |          |

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 Ahmed

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

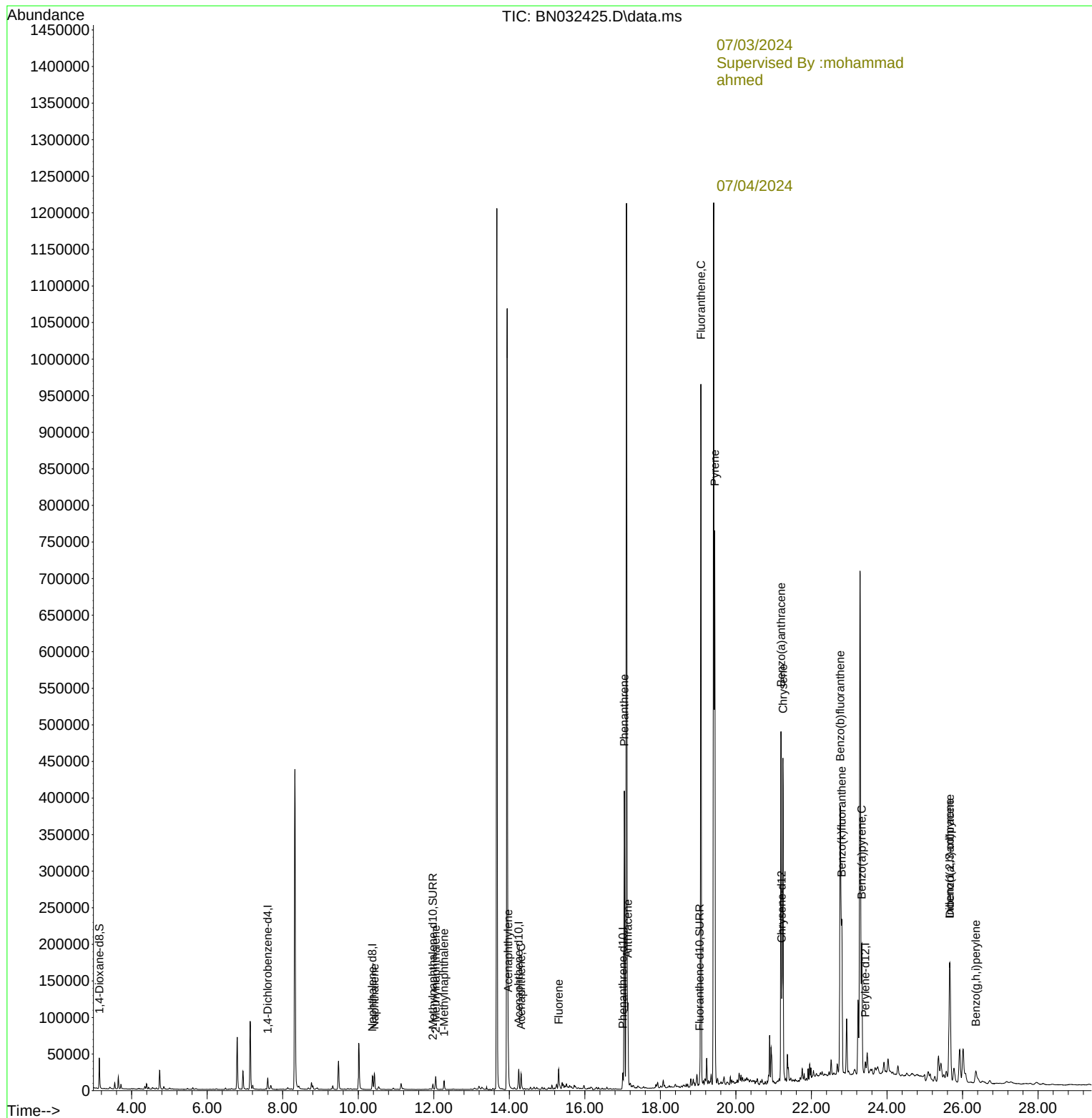
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070124\  
Data File : BN032425.D  
Acq On : 03 Jul 2024 06:22  
Operator : MA/JU  
Sample : P2963-11  
Misc :  
ALS Vial : 73 Sample Multiplier: 1

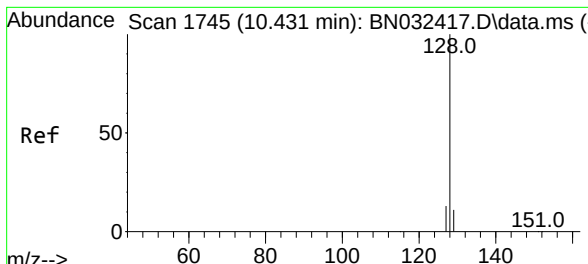
Instrument :  
BNA\_N  
ClientSampleId :  
A4CR5

Manual Integrations  
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Patel

Quant Time: Jul 03 06:54:02 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN062724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 03 03:26:42 2024  
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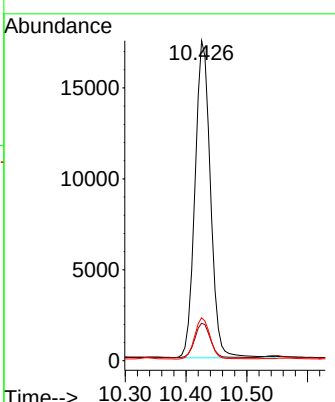
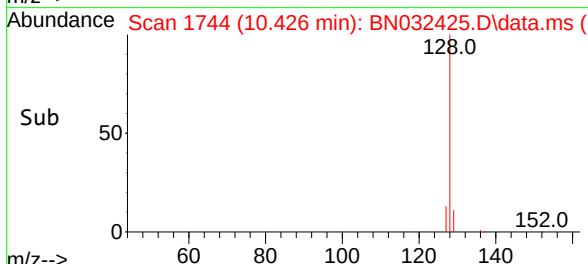
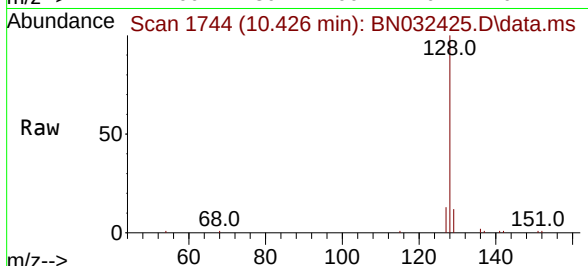
#5  
**Naphthalene**  
 Concen: 0.448 ng/ul  
 RT: 10.426 min Scan# 1744  
 Delta R.T. -0.006 min  
 Lab File: BN032425.D  
 Acq: 03 Jul 2024 06:22

**Instrument :** BNA\_N  
**ClientSampleId :** A4CR5

Tgt Ion:128 Resp: 3089

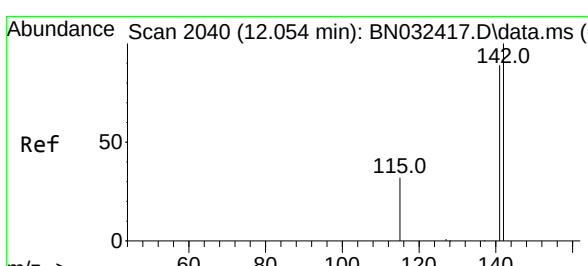
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 11.7  | 9.2   | 13.8  |
| 127 | 13.4  | 10.8  | 16.2  |

**Manual Integrations**  
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 Reviewed By :Yogesh Patel



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 Supervised By :mohammad ahmed

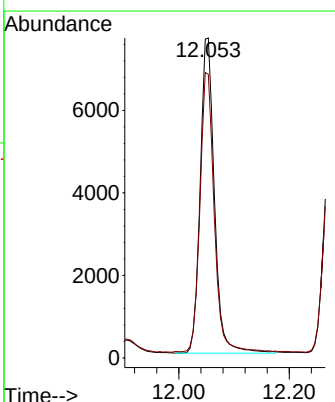
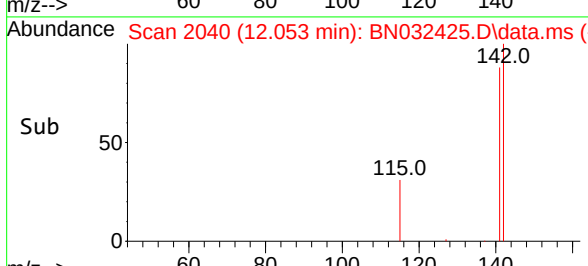
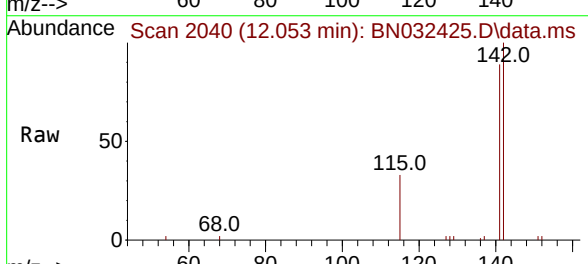
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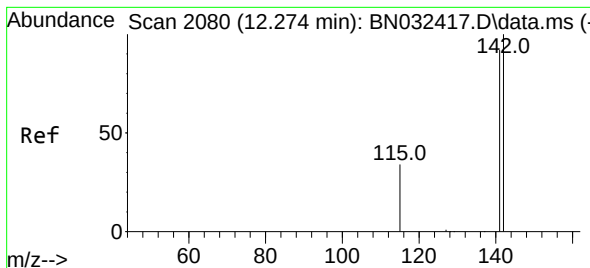


#7  
**2-Methylnaphthalene**  
 Concen: 0.298 ng/ul  
 RT: 12.053 min Scan# 2040  
 Delta R.T. -0.000 min  
 Lab File: BN032425.D  
 Acq: 03 Jul 2024 06:22

Tgt Ion:142 Resp: 13614

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 88.6  | 72.2  | 108.2 |





#8

1-Methylnaphthalene

Concen: 0.181 ng/ul

RT: 12.273 min Scan# 2080

Delta R.T. -0.000 min

Lab File: BN032425.D

Acq: 03 Jul 2024 06:22

Instrument :

BNA\_N

ClientSampleId :

A4CR5

Tgt Ion:142 Resp: 8570

Ion Ratio Lower Upper

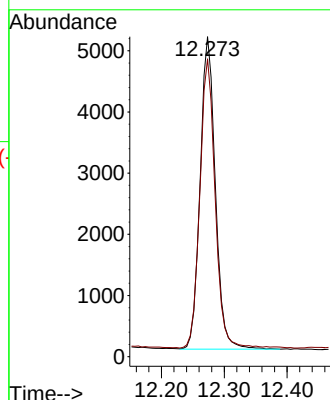
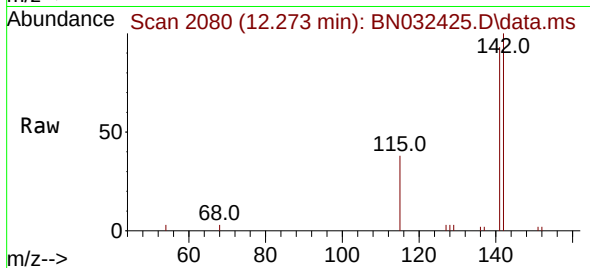
142 100

141 93.3 73.4 110.0

Manual Integrations

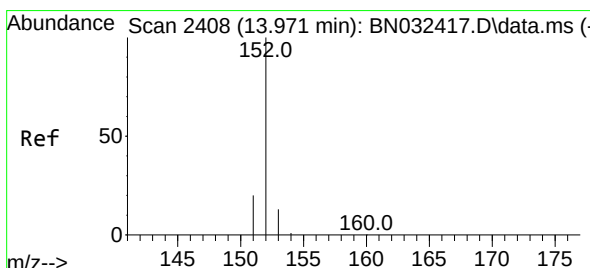
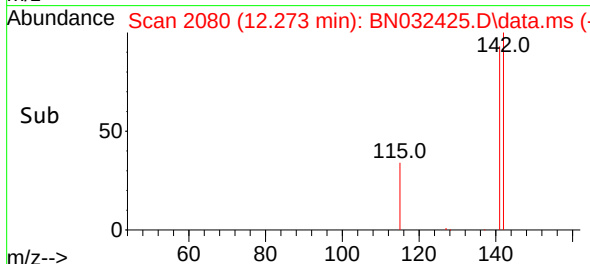
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Supervised By :mohammad  
ahmed

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#10

Acenaphthylene

Concen: 0.978 ng/ul

RT: 13.971 min Scan# 2408

Delta R.T. -0.000 min

Lab File: BN032425.D

Acq: 03 Jul 2024 06:22

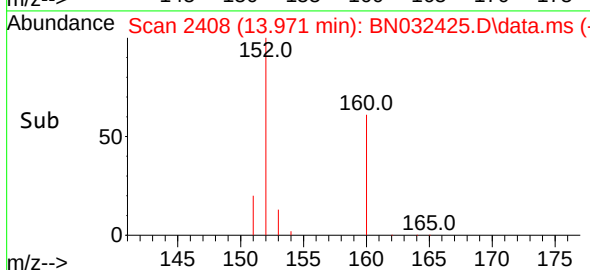
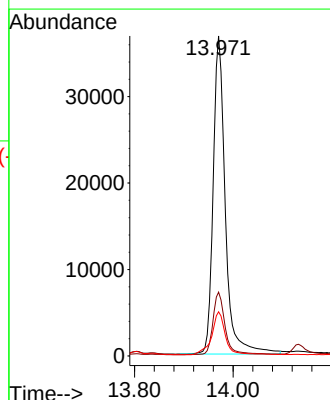
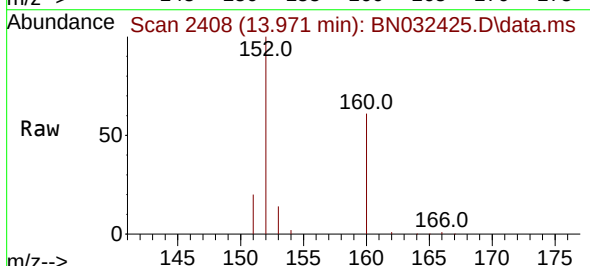
Tgt Ion:152 Resp: 63141

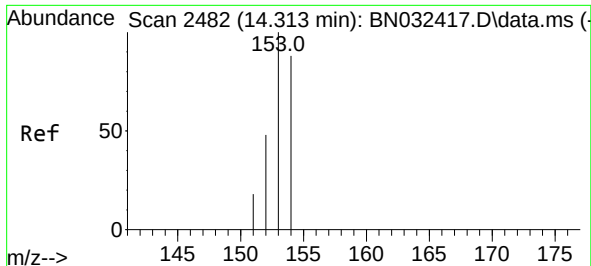
Ion Ratio Lower Upper

152 100

151 19.9 15.7 23.5

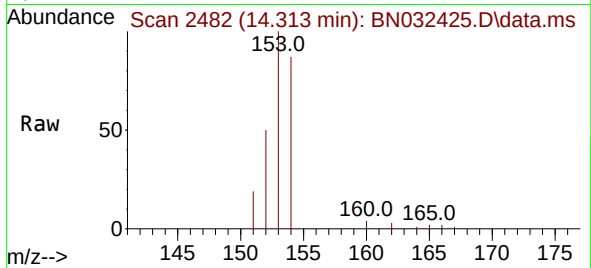
153 13.8 10.9 16.3





#11  
Acenaphthene  
Concen: 0.263 ng/ul  
RT: 14.313 min Scan# 2482  
Delta R.T. -0.000 min  
Lab File: BN032425.D  
Acq: 03 Jul 2024 06:22

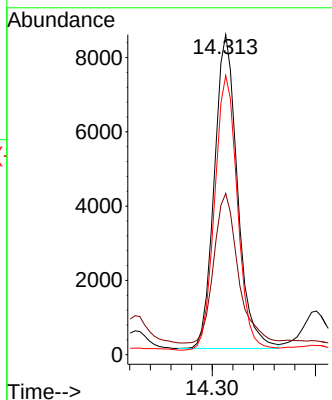
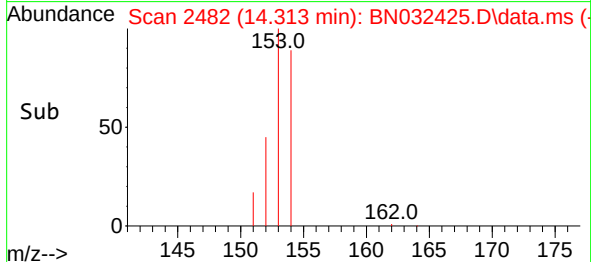
Instrument :  
BNA\_N  
ClientSampleId :  
A4CR5



Tgt Ion:153 Resp: 13180  
Ion Ratio Lower Upper  
153 100  
152 50.4 39.5 59.3  
154 87.2 71.7 107.5

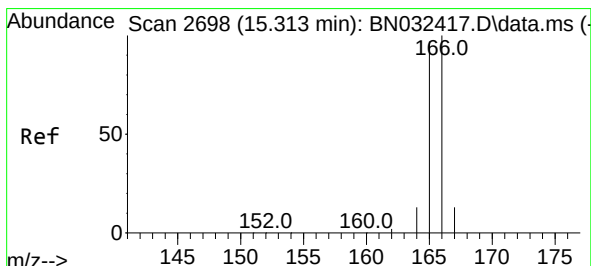
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Patel



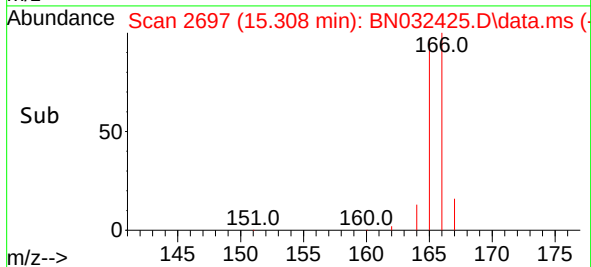
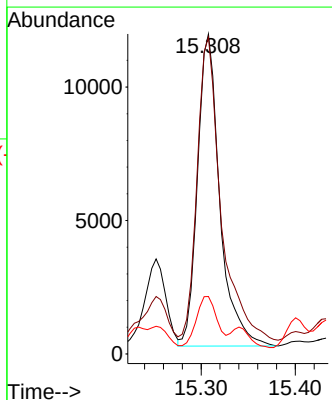
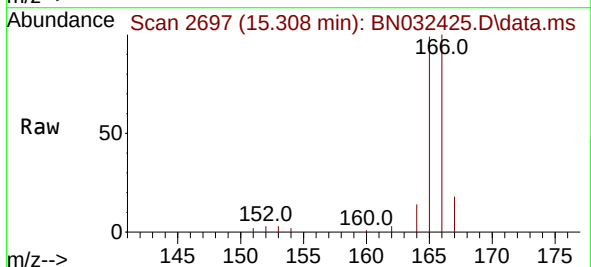
07/03/2024  
Supervised By :mohammad  
ahmed

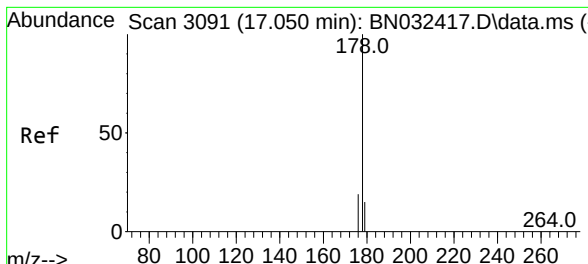
07/04/2024



#12  
Fluorene  
Concen: 0.321 ng/ul  
RT: 15.308 min Scan# 2697  
Delta R.T. -0.005 min  
Lab File: BN032425.D  
Acq: 03 Jul 2024 06:22

Tgt Ion:166 Resp: 19187  
Ion Ratio Lower Upper  
166 100  
165 99.0 79.0 118.6  
167 17.9 11.0 16.6#





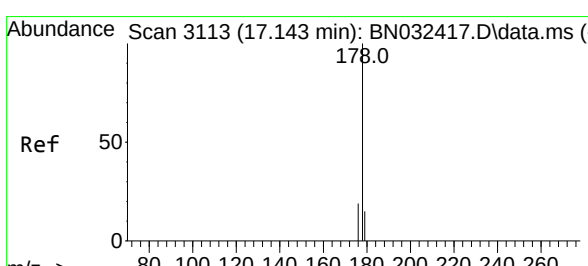
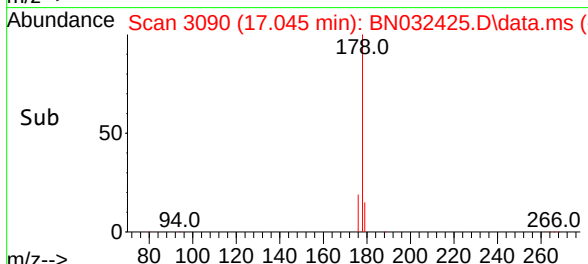
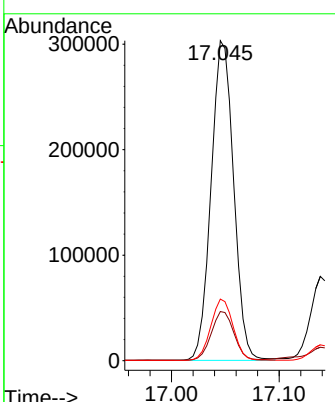
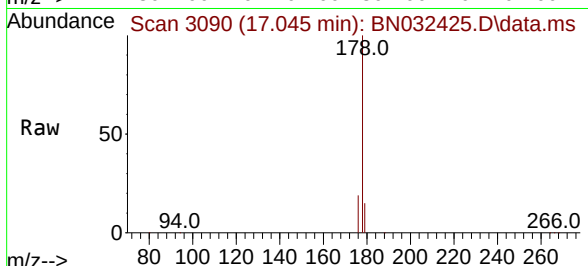
#15  
 Phenanthrene  
 Concen: 5.978 ng/ul m  
 RT: 17.045 min Scan# 3090  
 Delta R.T. -0.004 min  
 Lab File: BN032425.D  
 Acq: 03 Jul 2024 06:22

Instrument : BNA\_N  
 ClientSampleId : A4CR5

Tgt Ion:178 Resp: 441090

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.4  | 12.6  | 18.8  |
| 176 | 19.3  | 15.6  | 23.4  |

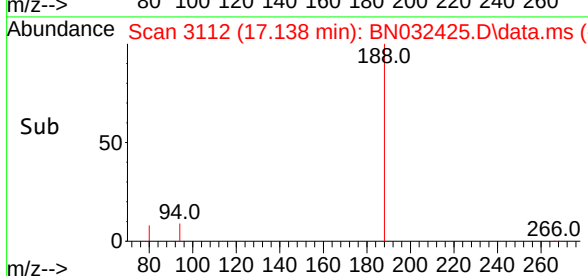
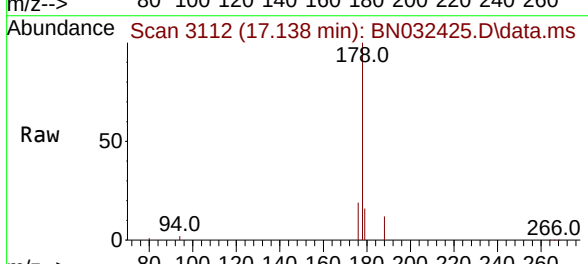
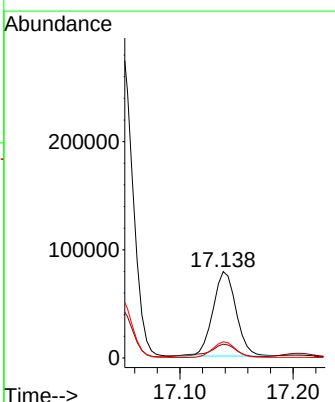
Manual Integrations  
**APPROVED**  
 Reviewed By :Yogesh Patel 07/03/2024  
 Supervised By :mohammad ahmed 07/04/2024

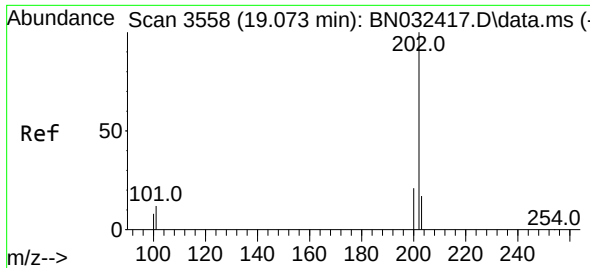


#16  
 Anthracene  
 Concen: 1.682 ng/ul m  
 RT: 17.138 min Scan# 3112  
 Delta R.T. -0.004 min  
 Lab File: BN032425.D  
 Acq: 03 Jul 2024 06:22

Tgt Ion:178 Resp: 110676

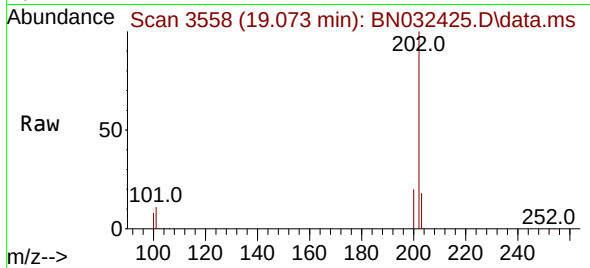
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 16.0  | 12.5  | 18.7  |
| 176 | 18.8  | 15.0  | 22.6  |





#19  
Fluoranthene  
Concen: 13.005 ng/ul m  
RT: 19.073 min Scan# 3558  
Delta R.T. -0.000 min  
Lab File: BN032425.D  
Acq: 03 Jul 2024 06:22

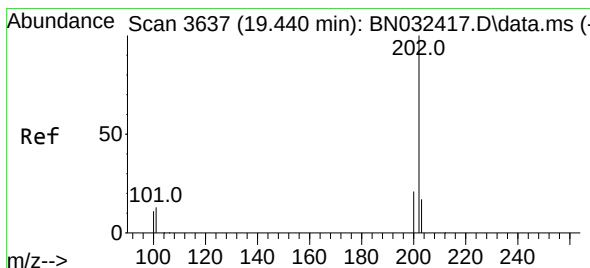
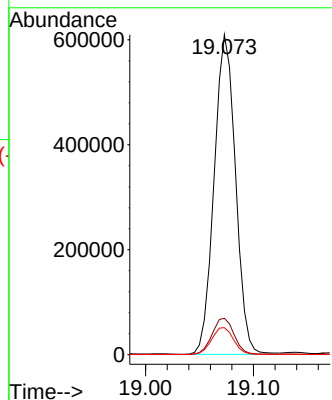
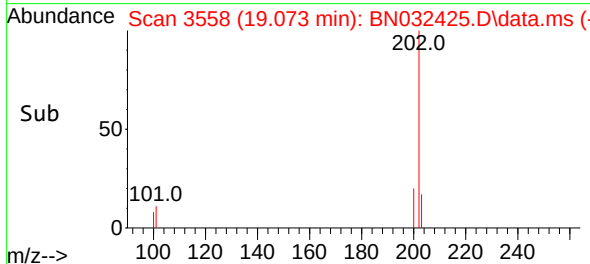
Instrument :  
BNA\_N  
ClientSampleId :  
A4CR5



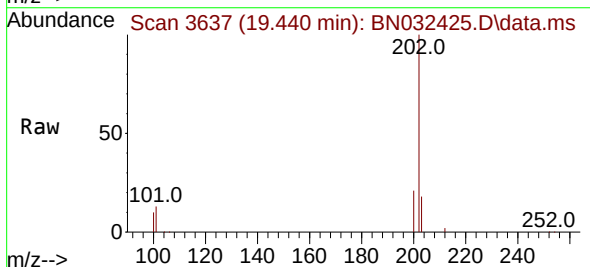
Tgt Ion:202 Resp: 841759  
Ion Ratio Lower Upper  
202 100  
101 11.3 8.8 13.2  
100 8.4 6.4 9.6

Manual Integrations  
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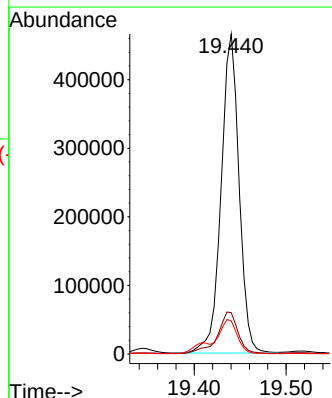
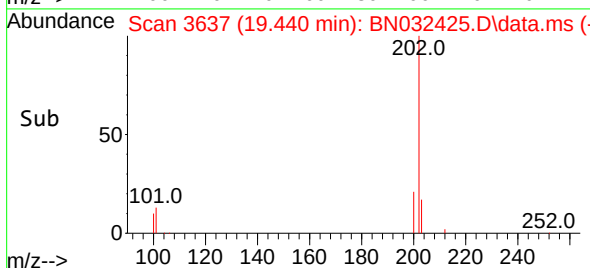
Reviewed By :Yogesh Patel 07/03/2024  
Supervised By :mohammad ahmed 07/04/2024

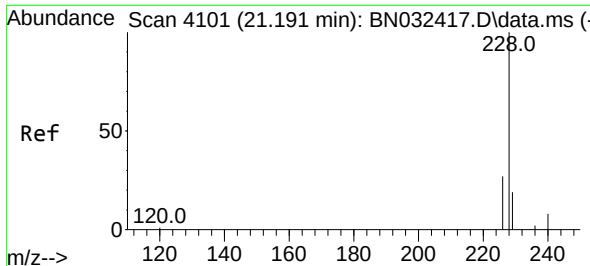


#20  
Pyrene  
Concen: 9.349 ng/ul m  
RT: 19.440 min Scan# 3637  
Delta R.T. -0.000 min  
Lab File: BN032425.D  
Acq: 03 Jul 2024 06:22



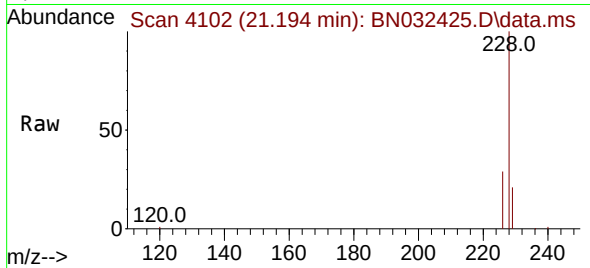
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Ion Ratio Lower Upper  
202 100  
101 12.9 11.0 16.4  
100 10.3 8.7 13.1





#21  
Benzo(a)anthracene  
Concen: 6.717 ng/ul m  
RT: 21.194 min Scan# 4101  
Delta R.T. 0.003 min  
Lab File: BN032425.D  
Acq: 03 Jul 2024 06:22

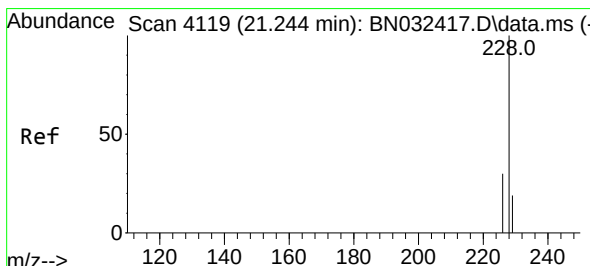
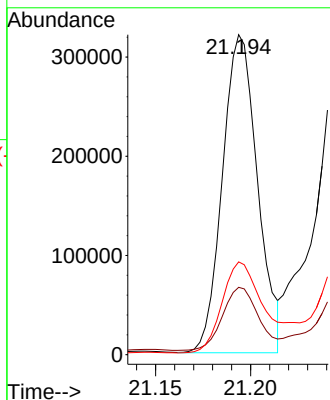
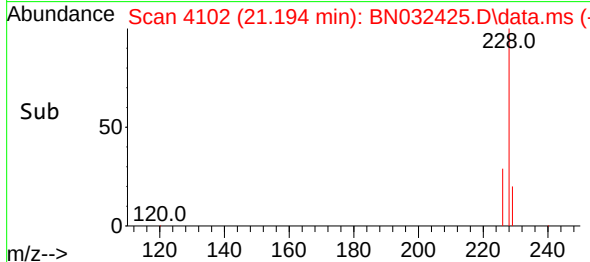
Instrument :  
BNA\_N  
ClientSampleId :  
A4CR5



Tgt Ion:228 Resp: 412117  
Ion Ratio Lower Upper  
228 100  
229 21.0 15.7 23.5  
226 29.0 21.8 32.8

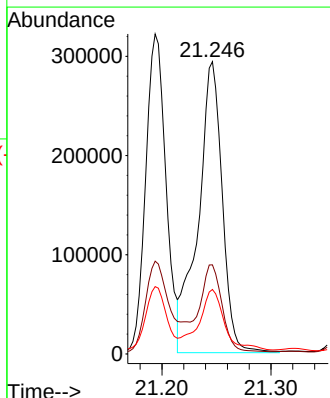
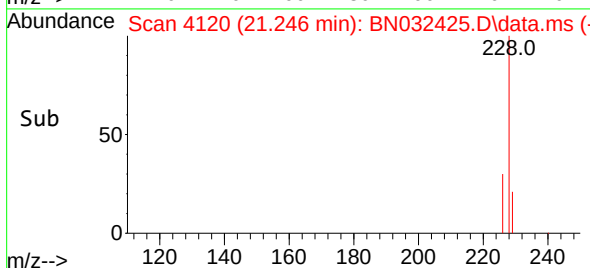
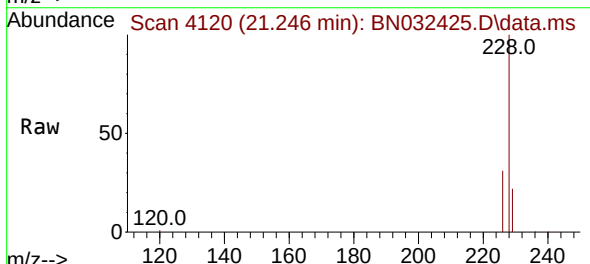
Manual Integrations  
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Reviewed By :Yogesh Patel 07/03/2024  
Supervised By :mohammad ahmed 07/04/2024

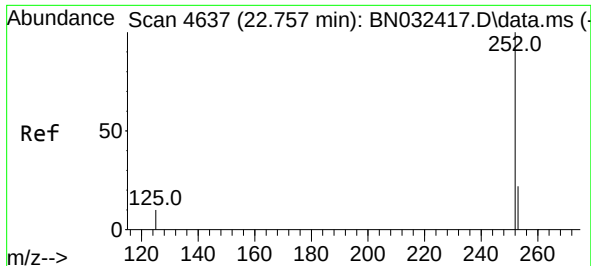


#22  
Chrysene  
Concen: 6.716 ng/ul m  
RT: 21.246 min Scan# 4120  
Delta R.T. 0.003 min  
Lab File: BN032425.D  
Acq: 03 Jul 2024 06:22

Tgt Ion:228 Resp: 452253  
Ion Ratio Lower Upper  
228 100  
226 30.5 23.6 35.4  
229 22.1 15.7 23.5

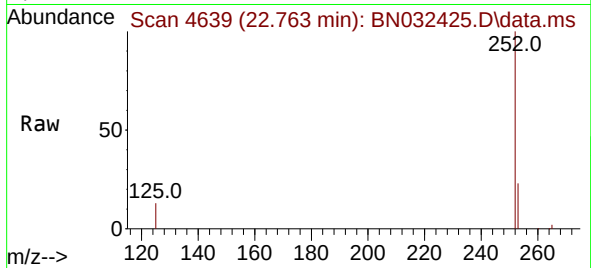






#24  
Benzo(b)fluoranthene  
Concen: 6.641 ng/ul m  
RT: 22.763 min Scan# 4639  
Delta R.T. 0.006 min  
Lab File: BN032425.D  
Acq: 03 Jul 2024 06:22

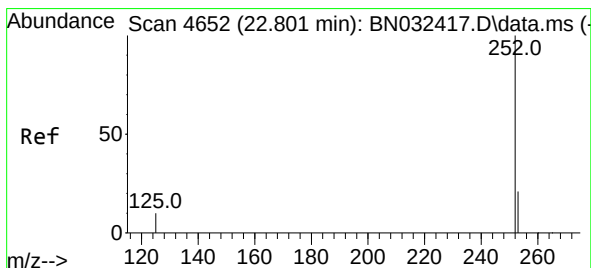
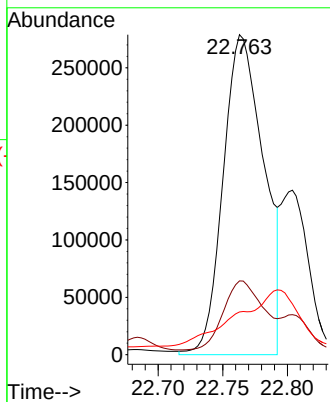
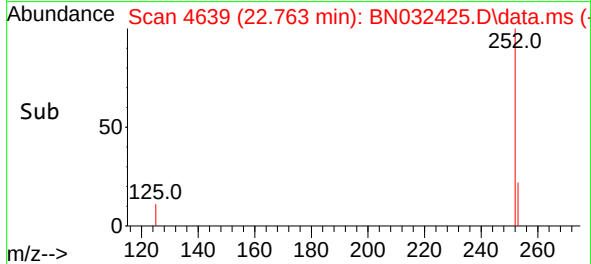
Instrument :  
BNA\_N  
ClientSampleId :  
A4CR5



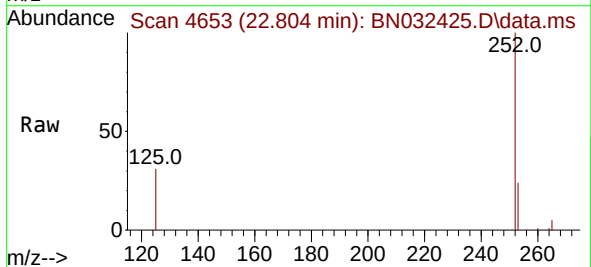
Tgt Ion:252 Resp: 60897  
Ion Ratio Lower Upper  
252 100  
253 23.1 0.0 50.2  
125 13.3 0.0 32.0

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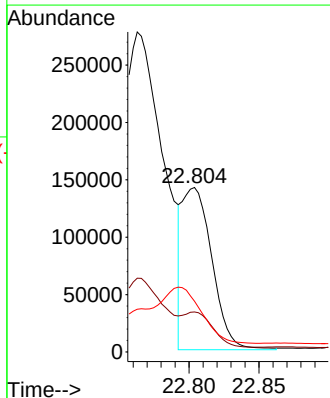
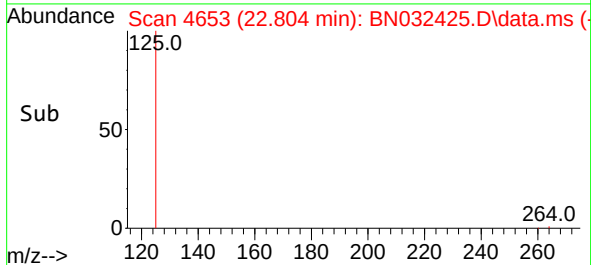
Reviewed By :Yogesh Patel 07/03/2024  
Supervised By :mohammad ahmed 07/04/2024

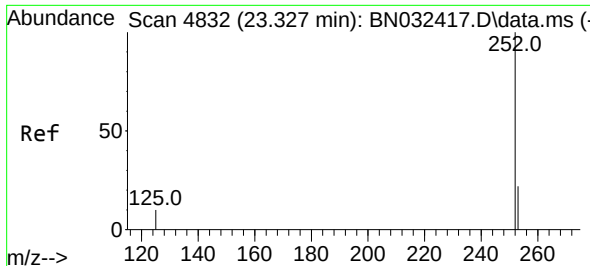


#25  
Benzo(k)fluoranthene  
Concen: 2.350 ng/ul m  
RT: 22.804 min Scan# 4653  
Delta R.T. 0.003 min  
Lab File: BN032425.D  
Acq: 03 Jul 2024 06:22



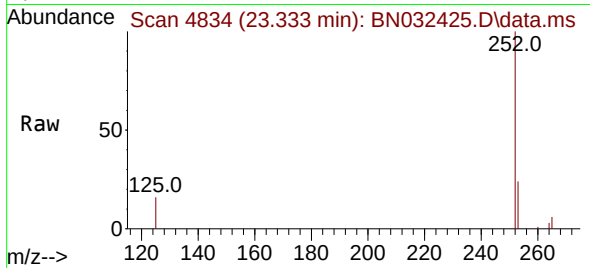
Tgt Ion:252 Resp: 209332  
Ion Ratio Lower Upper  
252 100  
253 24.3 20.3 30.5  
125 30.9 12.8 19.2#





#26  
Benzo(a)pyrene  
Concen: 3.806 ng/ul m  
RT: 23.333 min Scan# 4834  
Delta R.T. 0.006 min  
Lab File: BN032425.D  
Acq: 03 Jul 2024 06:22

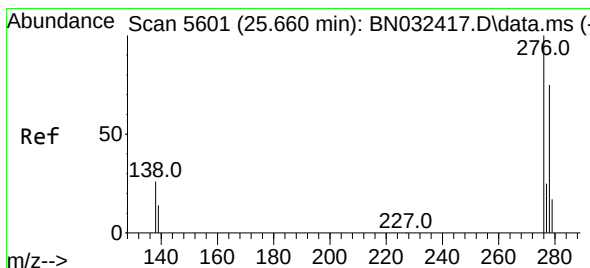
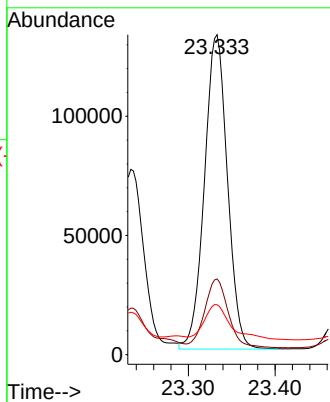
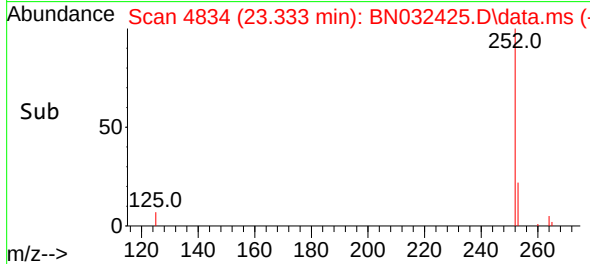
Instrument :  
BNA\_N  
ClientSampleId :  
A4CR5



Tgt Ion:252 Resp: 242833  
Ion Ratio Lower Upper  
252 100  
253 23.7 22.2 33.2  
125 15.6 16.4 24.6

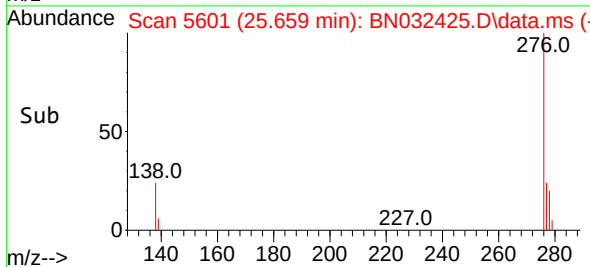
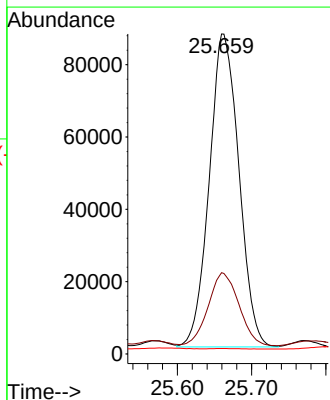
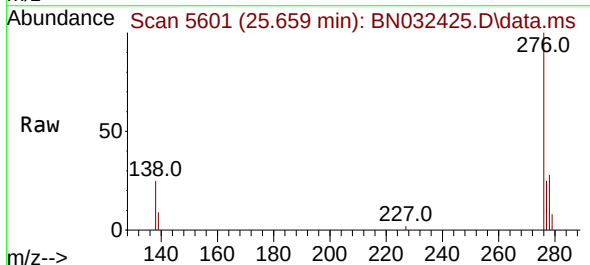
Manual Integrations  
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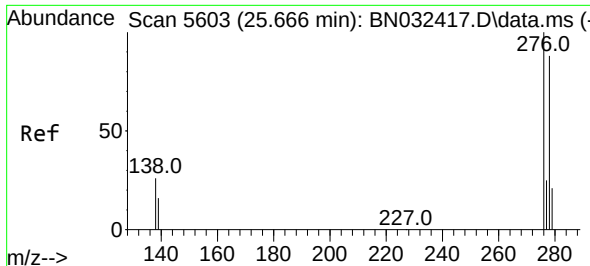
Reviewed By :Yogesh Patel 07/03/2024  
Supervised By :mohammad ahmed 07/04/2024



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 2.406 ng/ul m  
RT: 25.659 min Scan# 5601  
Delta R.T. -0.000 min  
Lab File: BN032425.D  
Acq: 03 Jul 2024 06:22

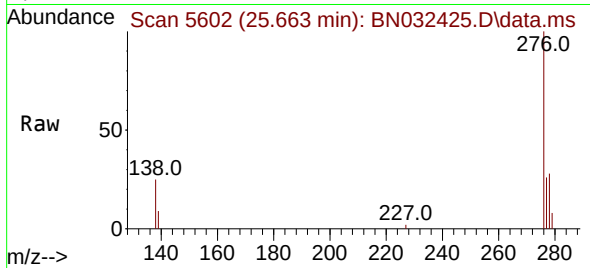
Tgt Ion:276 Resp: 240352  
Ion Ratio Lower Upper  
276 100  
138 3.9 21.3 31.9#  
227 0.1 0.1 0.1





#28  
Dibenzo(a,h)anthracene  
Concen: 1.148 ng/ul m  
RT: 25.663 min Scan# 5603  
Delta R.T. -0.004 min  
Lab File: BN032425.D  
Acq: 03 Jul 2024 06:22

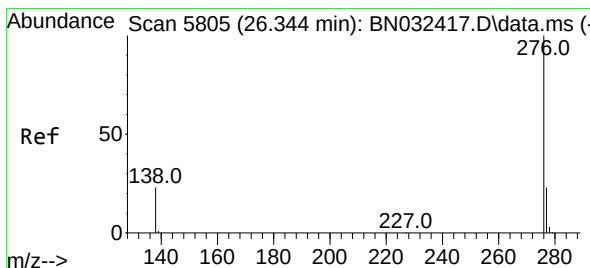
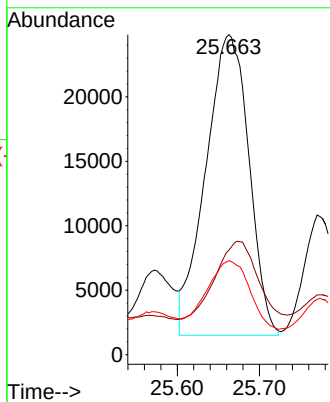
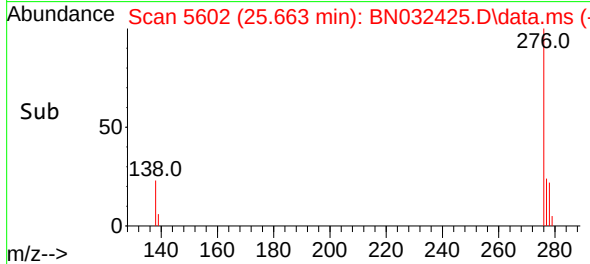
Instrument :  
BNA\_N  
ClientSampleId :  
A4CR5



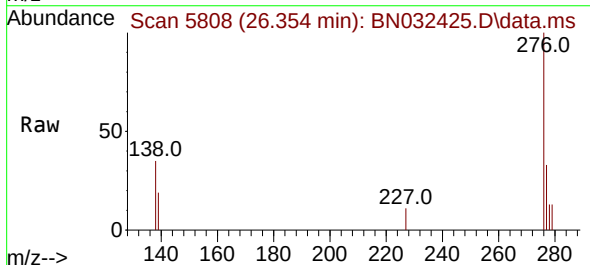
Tgt Ion:278 Resp: 85215  
Ion Ratio Lower Upper  
278 100  
139 32.7 15.9 23.9#  
279 29.4 21.1 31.7

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/03/2024  
Supervised By :mohammad ahmed 07/04/2024



#29  
Benzo(g,h,i)perylene  
Concen: 0.452 ng/ul m  
RT: 26.354 min Scan# 5808  
Delta R.T. 0.010 min  
Lab File: BN032425.D  
Acq: 03 Jul 2024 06:22



Tgt Ion:276 Resp: 35975  
Ion Ratio Lower Upper  
276 100  
138 35.1 19.8 29.6#  
277 33.4 19.8 29.6#

