

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
 Data File : BN032865.D  
 Acq On : 20 Jul 2024 06:14  
 Operator : MA/JU  
 Sample : P3238-11  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4BF7

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/22/2024  
 Supervised By :mohammad ahmed 07/22/2024

Quant Time: Jul 20 06:39:43 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN071224.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jul 20 01:52:15 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.523  | 152  | 4604     | 0.400  | ng/ul | -0.01    |
| 4) Naphthalene-d8           | 10.292 | 136  | 14130    | 0.400  | ng/ul | -0.02    |
| 9) Acenaphthene-d10         | 14.178 | 164  | 8244     | 0.400  | ng/ul | 0.00     |
| 13) Phenanthrene-d10        | 16.939 | 188  | 14558m   | 0.400  | ng/ul | -0.02    |
| 17) Chrysene-d12            | 21.155 | 240  | 12061m   | 0.400  | ng/ul | -0.01    |
| 23) Perylene-d12            | 23.346 | 264  | 15951m   | 0.400  | ng/ul | -0.01    |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 3) 1,4-Dioxane-d8           | 3.084  | 96   | 17728    | 3.207  | ng/ul | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.898 | 152  | 4486     | 0.210  | ng/ul | -0.03    |
| 18) Fluoranthene-d10        | 18.979 | 212  | 8292m    | 0.211  | ng/ul | -0.02    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       |          |
|                             |        |      |          |        |       | Qvalue   |
| 5) Naphthalene              | 10.342 | 128  | 20393    | 0.537  | ng/ul | 98       |
| 7) 2-Methylnaphthalene      | 11.970 | 142  | 10165    | 0.429  | ng/ul | 97       |
| 8) 1-Methylnaphthalene      | 12.195 | 142  | 8712     | 0.356  | ng/ul | 100      |
| 10) Acenaphthylene          | 13.895 | 152  | 39471    | 1.185  | ng/ul | 100      |
| 11) Acenaphthene            | 14.238 | 153  | 56719    | 2.059  | ng/ul | 98       |
| 12) Fluorene                | 15.237 | 166  | 53793    | 1.708  | ng/ul | 98       |
| 14) Pentachlorophenol       | 16.614 | 266  | 141m     | 0.055  | ng/ul |          |
| 15) Phenanthrene            | 16.981 | 178  | 764036m  | 19.271 | ng/ul |          |
| 16) Anthracene              | 17.074 | 178  | 191902m  | 5.924  | ng/ul |          |
| 19) Fluoranthene            | 19.011 | 202  | 1220381m | 24.887 | ng/ul |          |
| 20) Pyrene                  | 19.379 | 202  | 883051m  | 17.397 | ng/ul |          |
| 21) Benzo(a)anthracene      | 21.137 | 228  | 556294m  | 14.490 | ng/ul |          |
| 22) Chrysene                | 21.190 | 228  | 569964m  | 10.263 | ng/ul |          |
| 24) Benzo(b)fluoranthene    | 22.692 | 252  | 760602m  | 13.514 | ng/ul |          |
| 25) Benzo(k)fluoranthene    | 22.730 | 252  | 285024m  | 4.156  | ng/ul |          |
| 26) Benzo(a)pyrene          | 23.250 | 252  | 317181m  | 6.512  | ng/ul |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.551 | 276  | 288646m  | 4.377  | ng/ul |          |
| 28) Dibenzo(a,h)anthracene  | 25.548 | 278  | 100164m  | 1.959  | ng/ul |          |
| 29) Benzo(g,h,i)perylene    | 26.232 | 276  | 42904m   | 0.778  | ng/ul |          |
| -----                       |        |      |          |        |       |          |

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

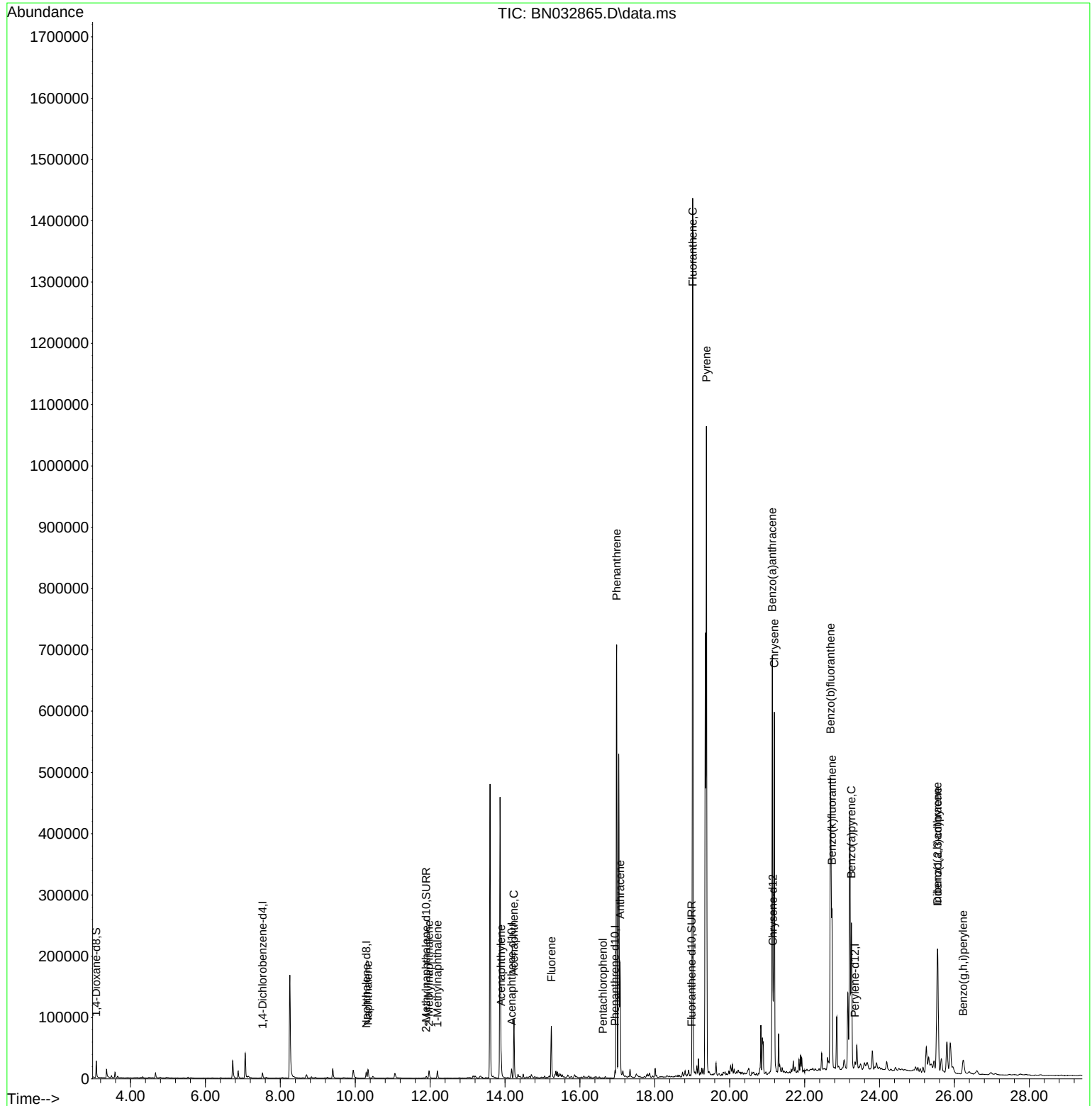
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
Data File : BN032865.D  
Acq On : 20 Jul 2024 06:14  
Operator : MA/JU  
Sample : P3238-11  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

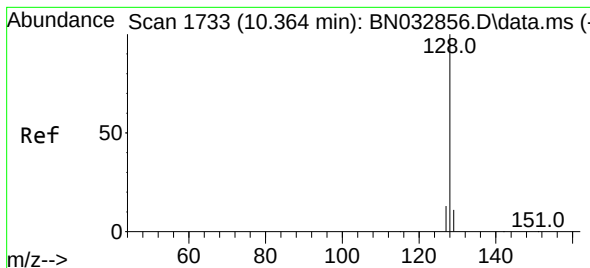
Instrument :  
BNA\_N  
ClientSampleId :  
A4BF7

Quant Time: Jul 20 06:39:43 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN071224.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jul 20 01:52:15 2024  
Response via : Initial Calibration

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APPROVED

Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024





#5

Naphthalene

Concen: 0.537 ng/ul

RT: 10.342 min Scan# 1729

Delta R.T. -0.022 min

Lab File: BN032865.D

Acq: 20 Jul 2024 06:14

Instrument :

BNA\_N

ClientSampleId :

A4BF7

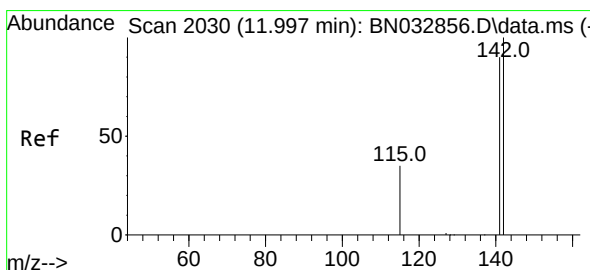
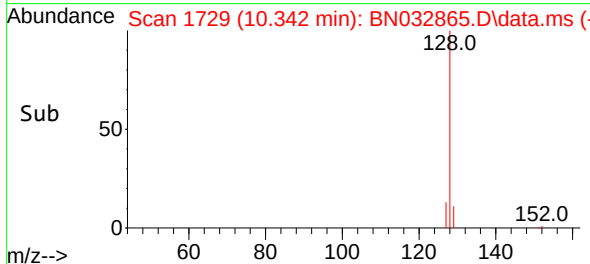
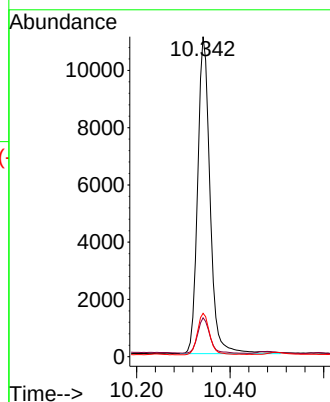
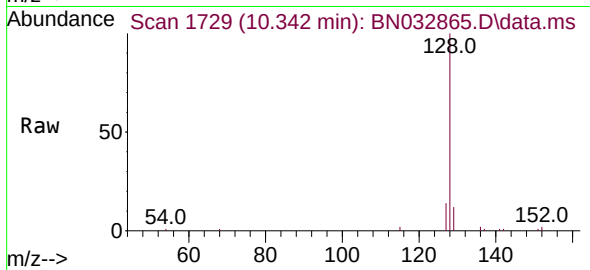
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 2039      |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 129         | 12.2  | 10.0 15.0 |
| 127         | 13.6  | 11.6 17.4 |

Manual Integrations

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Reviewed By :Yogesh Patel 07/22/2024

Supervised By :mohammad ahmed 07/22/2024



#7

2-Methylnaphthalene

Concen: 0.429 ng/ul

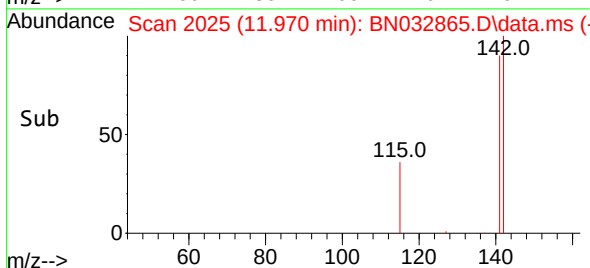
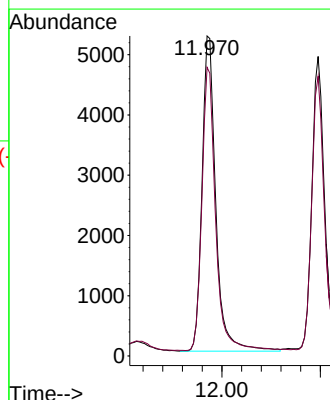
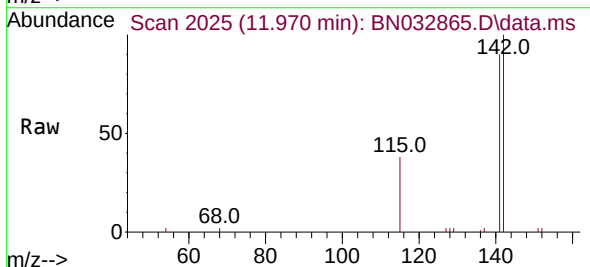
RT: 11.970 min Scan# 2025

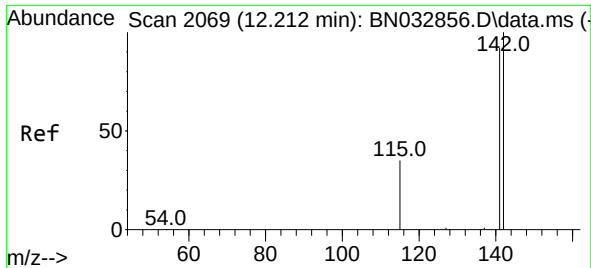
Delta R.T. -0.027 min

Lab File: BN032865.D

Acq: 20 Jul 2024 06:14

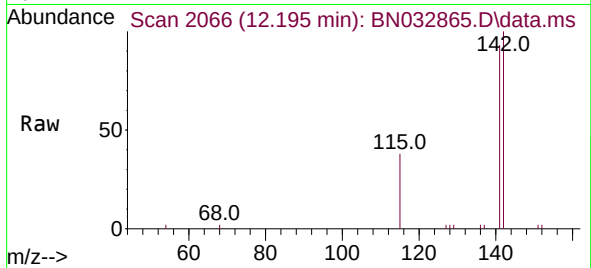
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:142 | Resp: | 10165      |
| Ion Ratio   | Lower | Upper      |
| 142         | 100   |            |
| 141         | 89.6  | 74.0 111.0 |





#8  
1-Methylnaphthalene  
Concen: 0.356 ng/ul  
RT: 12.195 min Scan# 2066  
Delta R.T. -0.016 min  
Lab File: BN032865.D  
Acq: 20 Jul 2024 06:14

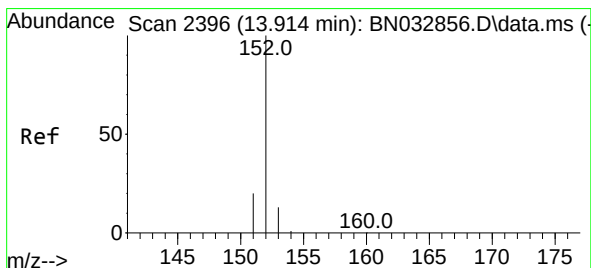
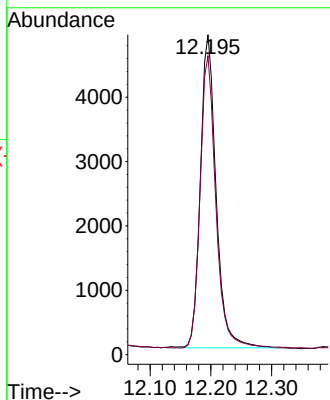
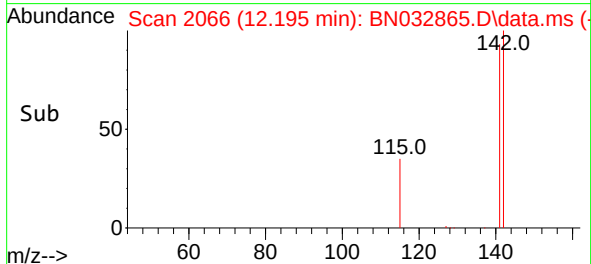
Instrument :  
BNA\_N  
ClientSampleId :  
A4BF7



Tgt Ion:142 Resp: 8712  
Ion Ratio Lower Upper  
142 100  
141 93.6 75.0 112.4

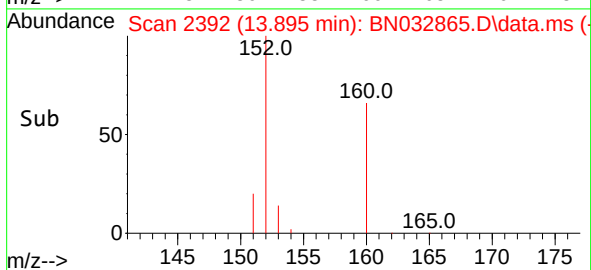
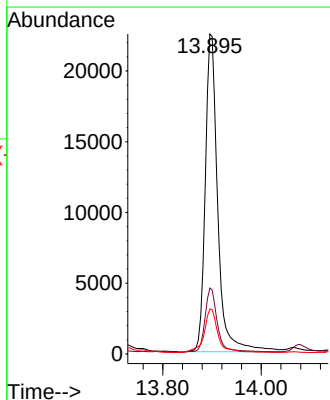
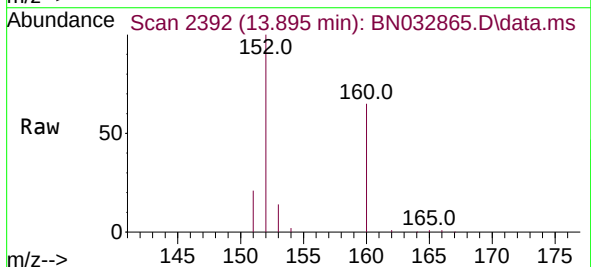
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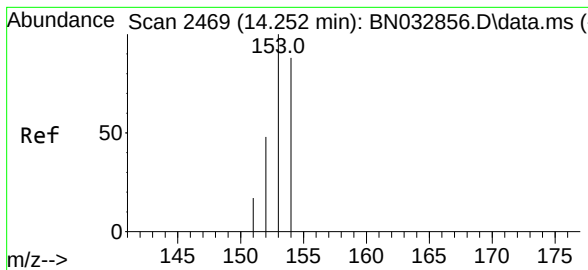
Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024



#10  
Acenaphthylene  
Concen: 1.185 ng/ul  
RT: 13.895 min Scan# 2392  
Delta R.T. -0.018 min  
Lab File: BN032865.D  
Acq: 20 Jul 2024 06:14

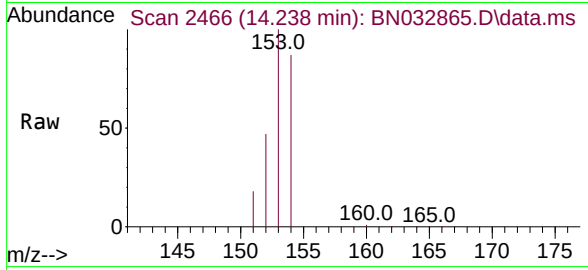
Tgt Ion:152 Resp: 39471  
Ion Ratio Lower Upper  
152 100  
151 20.6 16.3 24.5  
153 14.1 11.3 16.9





#11  
Acenaphthene  
Concen: 2.059 ng/ul  
RT: 14.238 min Scan# 2466  
Delta R.T. -0.014 min  
Lab File: BN032865.D  
Acq: 20 Jul 2024 06:14

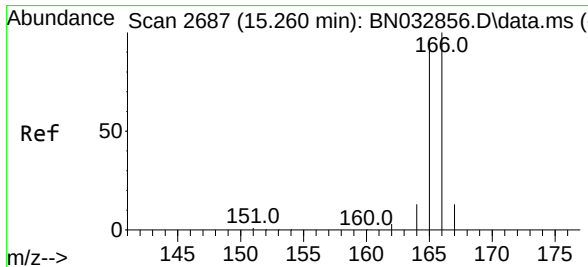
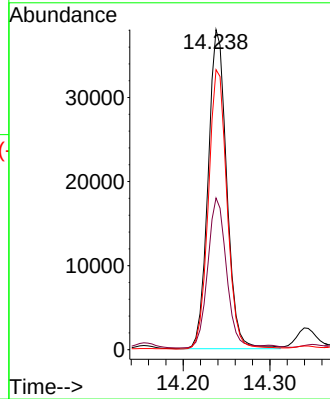
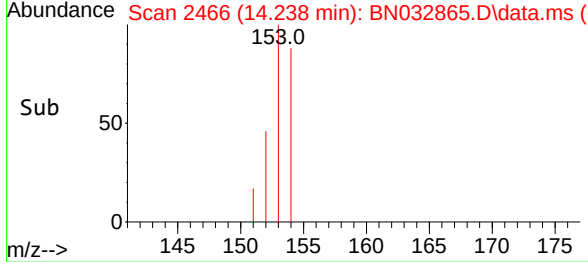
Instrument :  
BNA\_N  
ClientSampleId :  
A4BF7



Tgt Ion:153 Resp: 56719  
Ion Ratio Lower Upper  
153 100  
152 47.4 40.0 60.0  
154 87.5 70.2 105.4

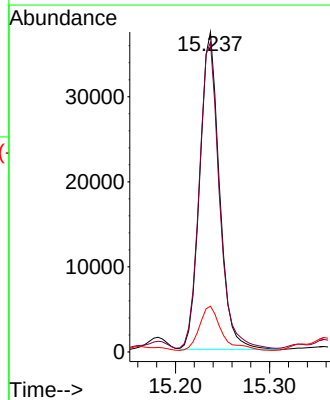
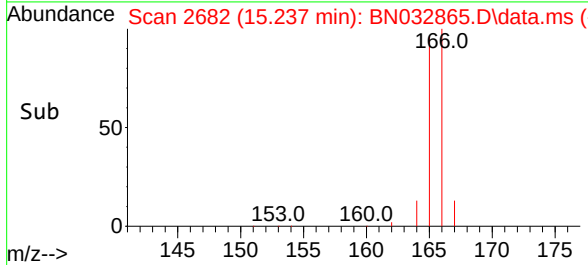
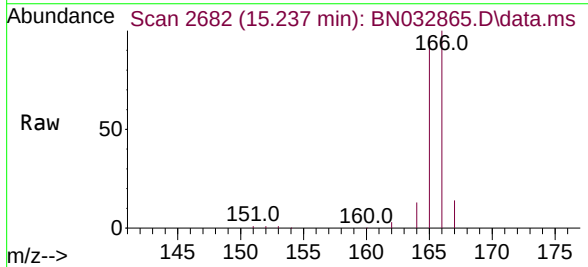
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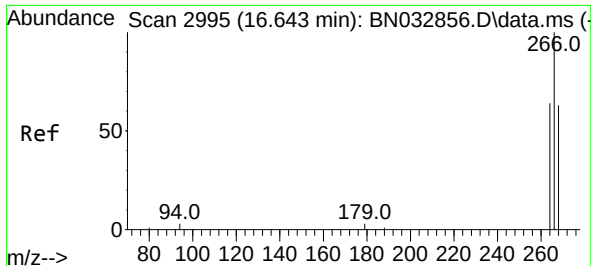
Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024



#12  
Fluorene  
Concen: 1.708 ng/ul  
RT: 15.237 min Scan# 2682  
Delta R.T. -0.023 min  
Lab File: BN032865.D  
Acq: 20 Jul 2024 06:14

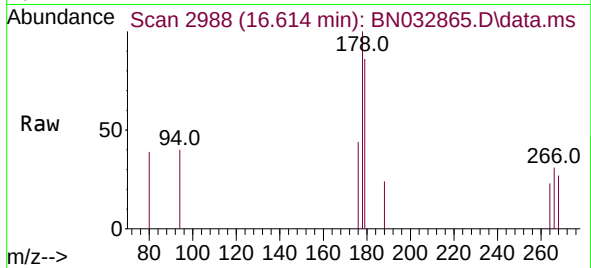
Tgt Ion:166 Resp: 53793  
Ion Ratio Lower Upper  
166 100  
165 96.8 79.7 119.5  
167 14.3 11.4 17.2





#14  
Pentachlorophenol  
Concen: 0.055 ng/ul m  
RT: 16.614 min Scan# 2995  
Delta R.T. -0.029 min  
Lab File: BN032865.D  
Acq: 20 Jul 2024 06:14

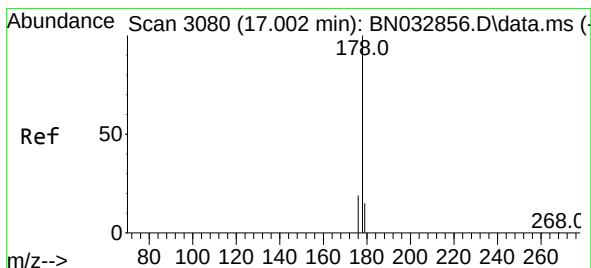
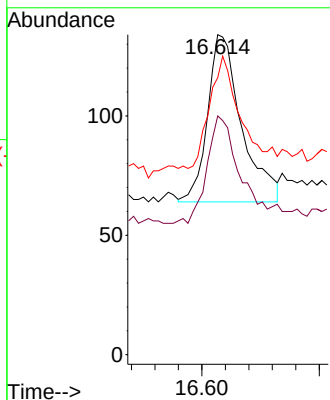
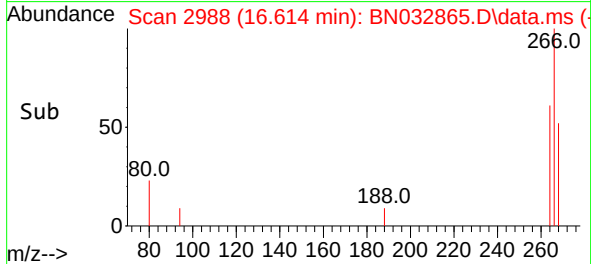
Instrument :  
BNA\_N  
ClientSampleId :  
A4BF7



Tgt Ion:266 Resp: 143  
Ion Ratio Lower Upper  
266 100  
264 0.0 49.4 74.2  
268 7.8 51.6 77.4

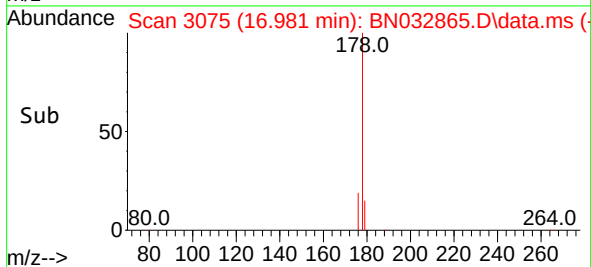
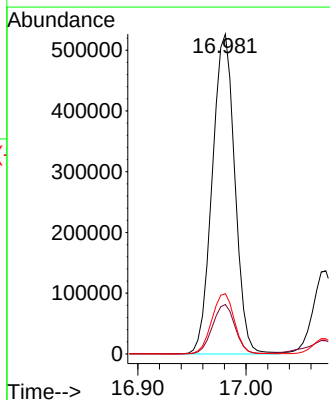
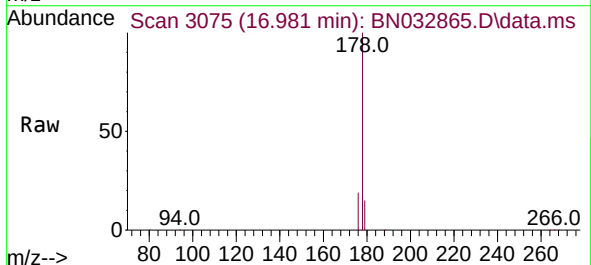
Manual Integrations  
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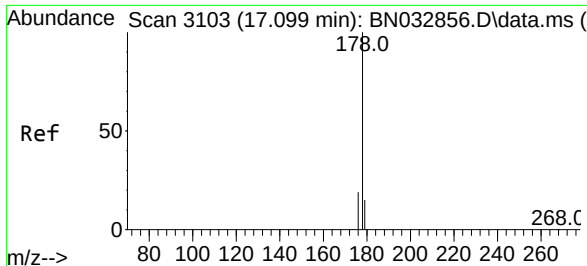
Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024



#15  
Phenanthrene  
Concen: 19.271 ng/ul m  
RT: 16.981 min Scan# 3075  
Delta R.T. -0.021 min  
Lab File: BN032865.D  
Acq: 20 Jul 2024 06:14

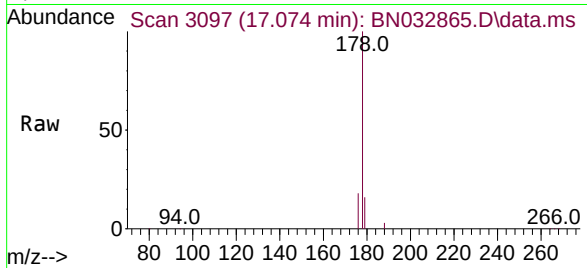
Tgt Ion:178 Resp: 764036  
Ion Ratio Lower Upper  
178 100  
179 15.4 13.0 19.4  
176 18.9 15.6 23.4





#16  
 Anthracene  
 Concen: 5.924 ng/ul m  
 RT: 17.074 min Scan# 3097  
 Delta R.T. -0.025 min  
 Lab File: BN032865.D  
 Acq: 20 Jul 2024 06:14

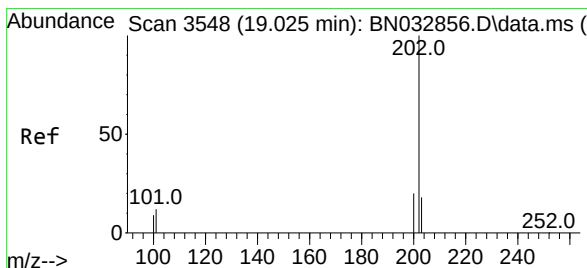
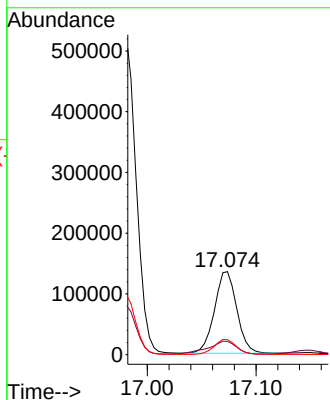
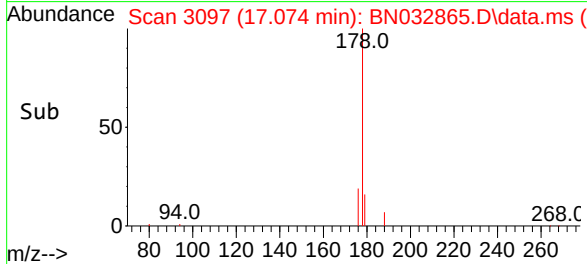
Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4BF7



Tgt Ion:178 Resp: 191902  
 Ion Ratio Lower Upper  
 178 100  
 179 16.1 13.4 20.2  
 176 18.1 15.4 23.0

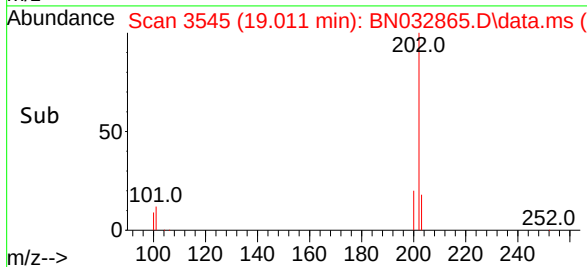
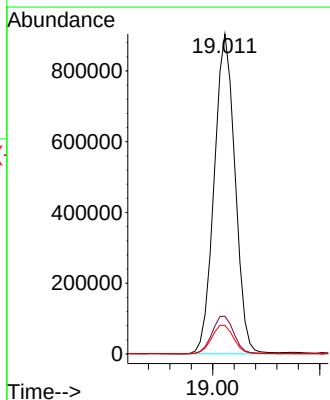
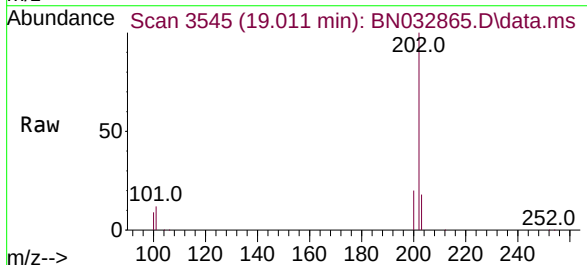
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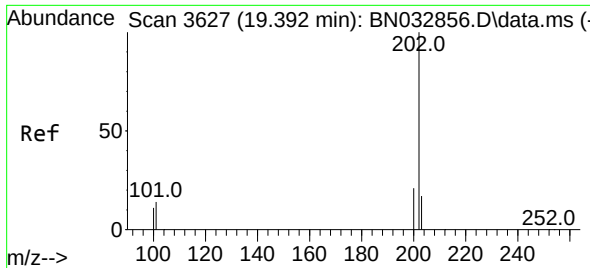
Reviewed By :Yogesh Patel 07/22/2024  
 Supervised By :mohammad ahmed 07/22/2024



#19  
 Fluoranthene  
 Concen: 24.887 ng/ul m  
 RT: 19.011 min Scan# 3545  
 Delta R.T. -0.014 min  
 Lab File: BN032865.D  
 Acq: 20 Jul 2024 06:14

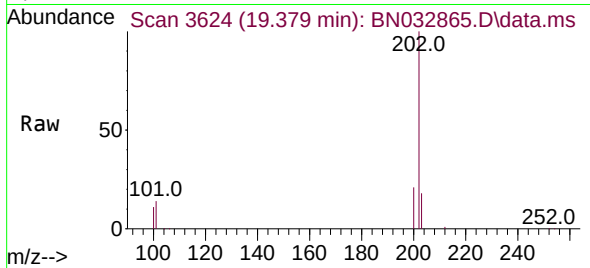
Tgt Ion:202 Resp: 1220381  
 Ion Ratio Lower Upper  
 202 100  
 101 11.8 9.8 14.8  
 100 8.9 7.9 11.9





#20  
Pyrene  
Concen: 17.397 ng/ul m  
RT: 19.379 min Scan# 3624  
Delta R.T. -0.014 min  
Lab File: BN032865.D  
Acq: 20 Jul 2024 06:14

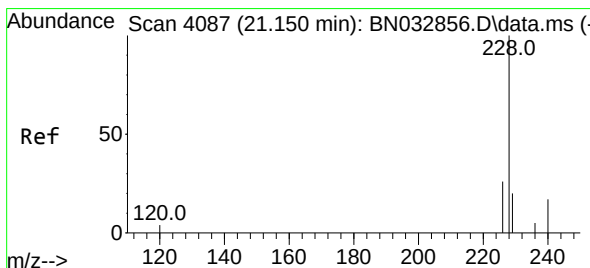
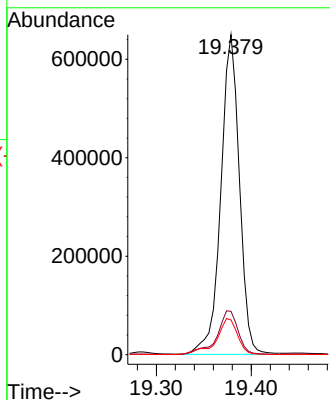
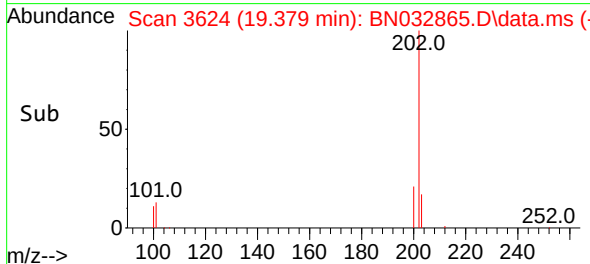
Instrument :  
BNA\_N  
ClientSampleId :  
A4BF7



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Ion Ratio Lower Upper  
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101 13.6 11.8 17.6  
100 10.9 9.6 14.4

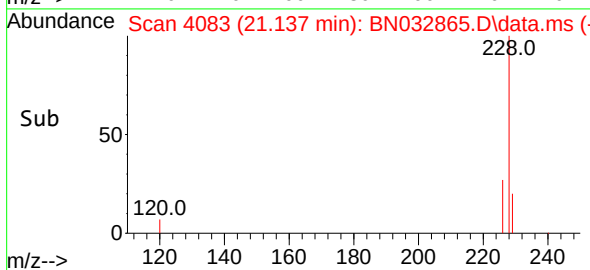
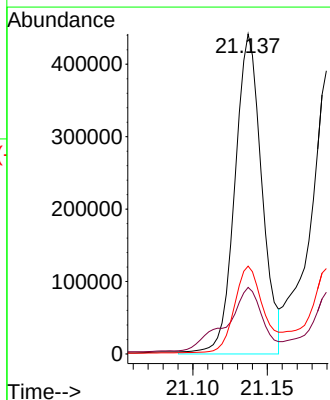
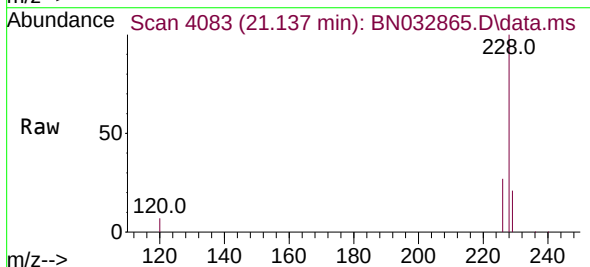
Manual Integrations  
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Supervised By :mohammad ahmed 07/22/2024

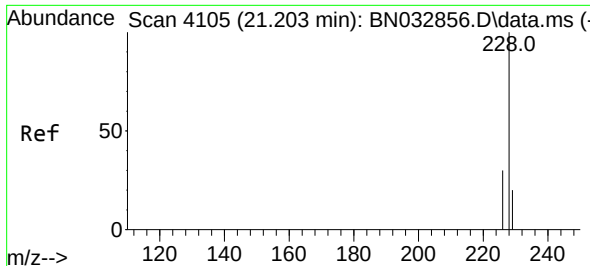


#21  
Benzo(a)anthracene  
Concen: 14.490 ng/ul m  
RT: 21.137 min Scan# 4083  
Delta R.T. -0.013 min  
Lab File: BN032865.D  
Acq: 20 Jul 2024 06:14

Tgt Ion:228 Resp: 556294  
Ion Ratio Lower Upper  
228 100  
229 20.8 16.1 24.1  
226 27.4 21.9 32.9

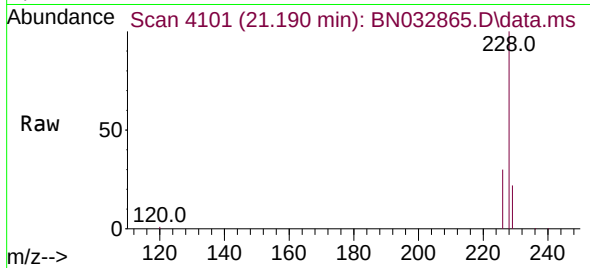






#22  
Chrysene  
Concen: 10.263 ng/ul m  
RT: 21.190 min Scan# 4105  
Delta R.T. -0.013 min  
Lab File: BN032865.D  
Acq: 20 Jul 2024 06:14

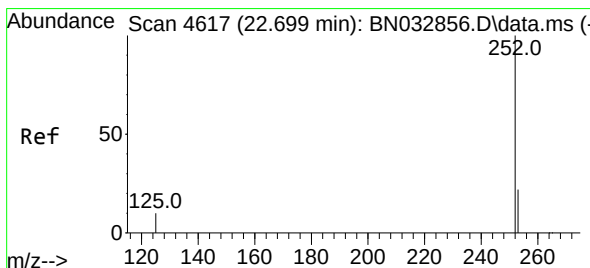
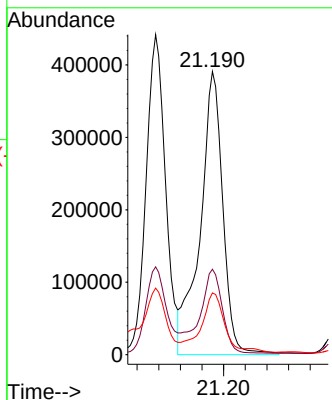
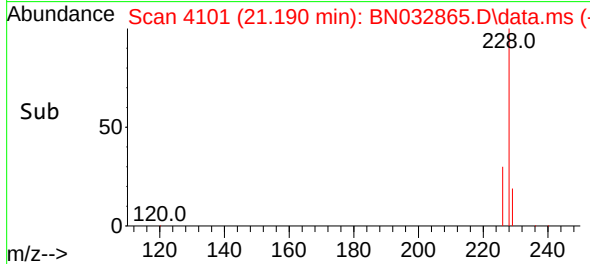
Instrument :  
BNA\_N  
ClientSampleId :  
A4BF7



Tgt Ion:228 Resp: 569964  
Ion Ratio Lower Upper  
228 100  
226 30.1 24.0 36.0  
229 21.8 15.8 23.6

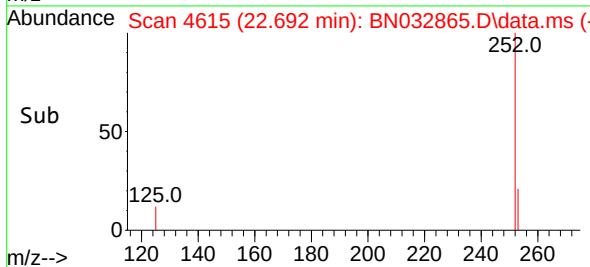
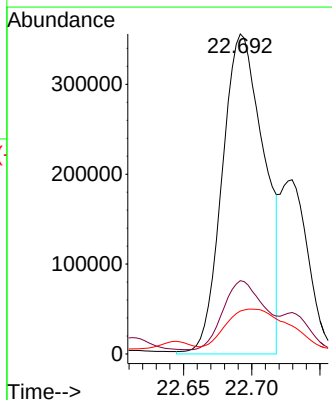
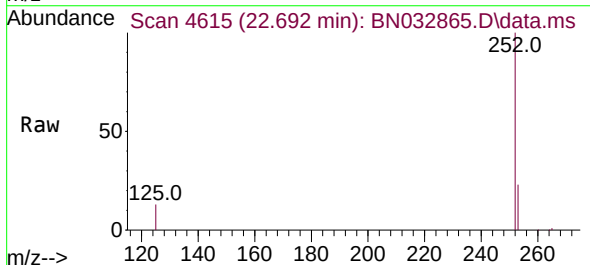
Manual Integrations  
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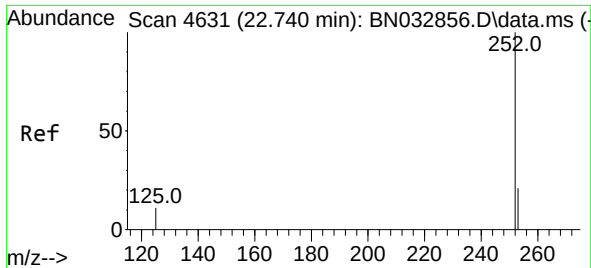
Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024



#24  
Benzo(b)fluoranthene  
Concen: 13.514 ng/ul m  
RT: 22.692 min Scan# 4615  
Delta R.T. -0.007 min  
Lab File: BN032865.D  
Acq: 20 Jul 2024 06:14

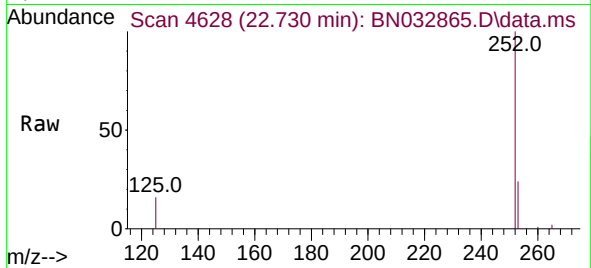
Tgt Ion:252 Resp: 760602  
Ion Ratio Lower Upper  
252 100  
253 22.9 0.0 54.0  
125 13.4 0.0 36.0





#25  
Benzo(k)fluoranthene  
Concen: 4.156 ng/ul m  
RT: 22.730 min Scan# 4628  
Delta R.T. -0.010 min  
Lab File: BN032865.D  
Acq: 20 Jul 2024 06:14

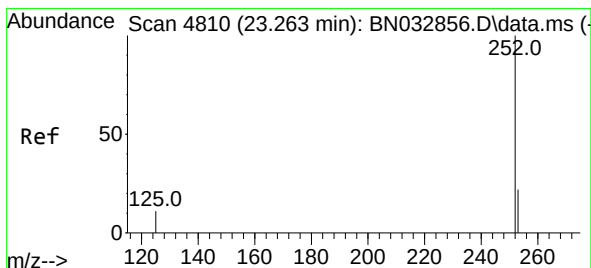
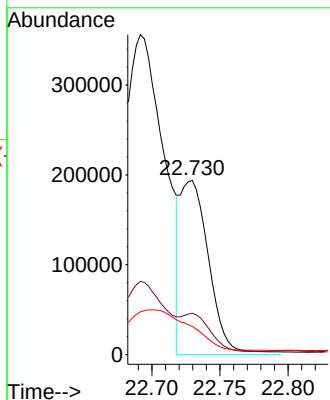
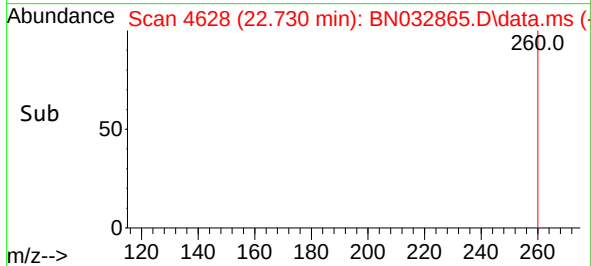
Instrument :  
BNA\_N  
ClientSampleId :  
A4BF7



Tgt Ion:252 Resp: 285024  
Ion Ratio Lower Upper  
252 100  
253 23.8 21.2 31.8  
125 16.2 14.8 22.2

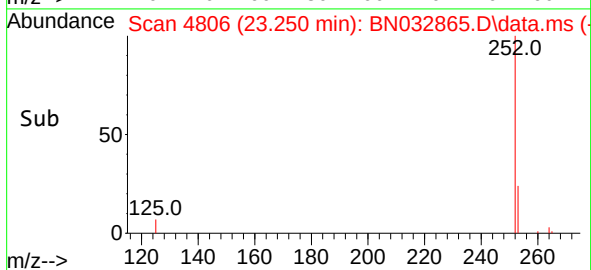
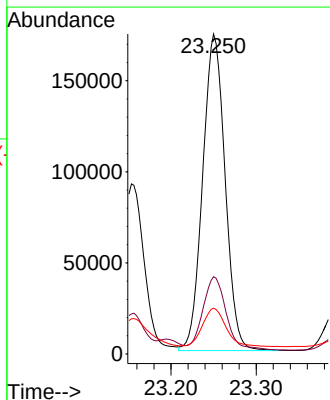
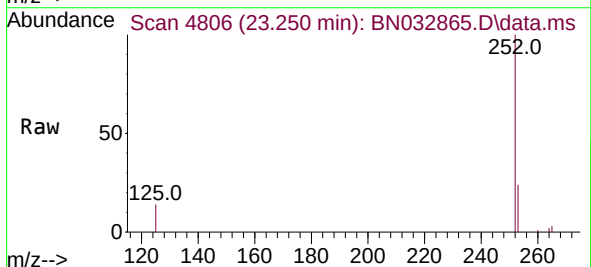
Manual Integrations  
APPROVED

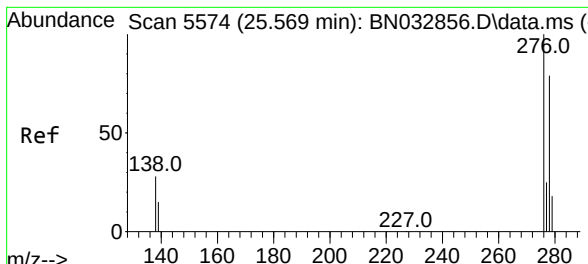
Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024



#26  
Benzo(a)pyrene  
Concen: 6.512 ng/ul m  
RT: 23.250 min Scan# 4806  
Delta R.T. -0.013 min  
Lab File: BN032865.D  
Acq: 20 Jul 2024 06:14

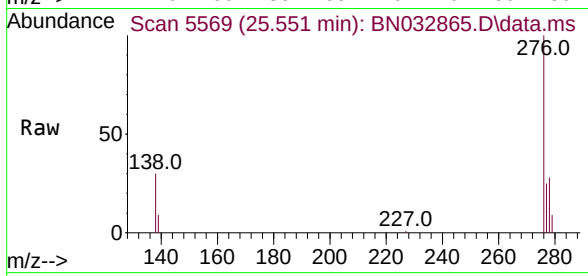
Tgt Ion:252 Resp: 317181  
Ion Ratio Lower Upper  
252 100  
253 24.2 25.4 38.0#  
125 14.3 20.6 30.8#





#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 4.377 ng/ul m  
 RT: 25.551 min Scan# 5569  
 Delta R.T. -0.018 min  
 Lab File: BN032865.D  
 Acq: 20 Jul 2024 06:14

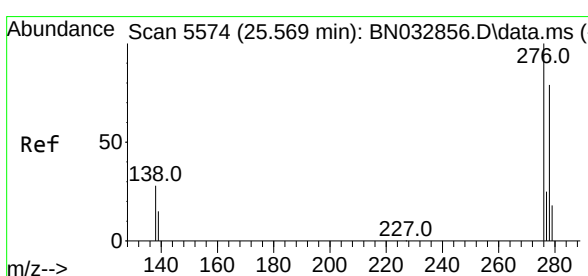
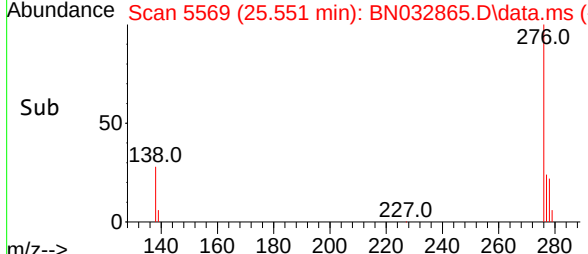
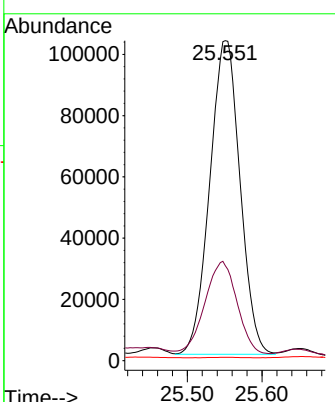
Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4BF7



Tgt Ion:276 Resp: 288640  
 Ion Ratio Lower Upper  
 276 100  
 138 3.8 21.6 32.4  
 227 0.0 0.0 0.0

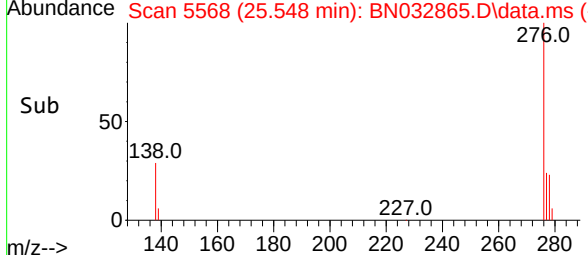
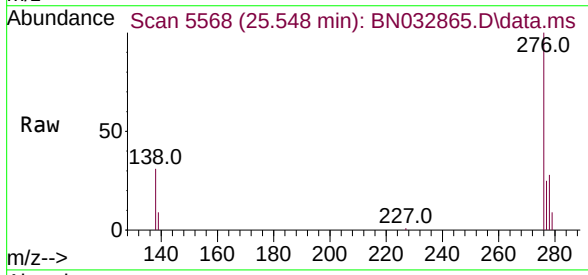
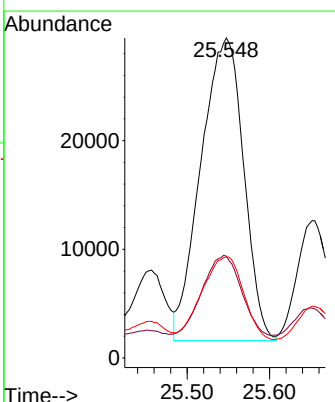
Manual Integrations  
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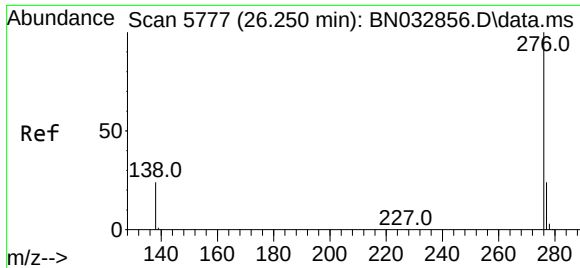
Reviewed By :Yogesh Patel 07/22/2024  
 Supervised By :mohammad ahmed 07/22/2024



#28  
 Dibenzo(a,h)anthracene  
 Concen: 1.959 ng/ul m  
 RT: 25.548 min Scan# 5568  
 Delta R.T. -0.022 min  
 Lab File: BN032865.D  
 Acq: 20 Jul 2024 06:14

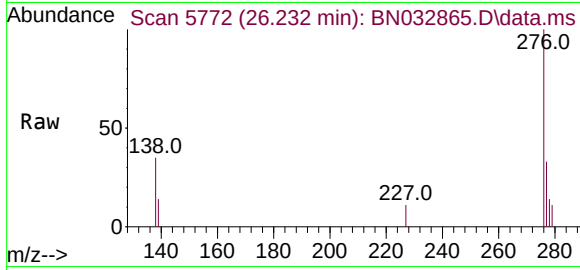
Tgt Ion:278 Resp: 100164  
 Ion Ratio Lower Upper  
 278 100  
 139 31.8 16.6 24.8  
 279 31.5 23.7 35.5





#29  
Benzo(g,h,i)perylene  
Concen: 0.778 ng/ul m  
RT: 26.232 min Scan# 51  
Delta R.T. -0.018 min  
Lab File: BN032865.D  
Acq: 20 Jul 2024 06:14

Instrument :  
BNA\_N  
ClientSampleId :  
A4BF7



Tgt Ion:276 Resp: 42904  
Ion Ratio Lower Upper  
276 100  
138 34.6 21.0 31.4  
277 32.7 20.6 31.0

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024

