

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071224\  
 Data File : BN032677.D  
 Acq On : 12 Jul 2024 17:59  
 Operator : MA/JU  
 Sample : P3087-16  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4BR1

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/13/2024  
 Supervised By :mohammad ahmed 07/16/2024

Quant Time: Jul 12 18:46:49 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 : Fri Jul 12 01:40:24 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.553  | 152  | 4865     | 0.400 | ng/ul  | -0.03    |
| 4) Naphthalene-d8           | 10.321 | 136  | 14301    | 0.400 | ng/ul  | -0.04    |
| 9) Acenaphthene-d10         | 14.202 | 164  | 7509     | 0.400 | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 16.957 | 188  | 14297m   | 0.400 | ng/ul  | -0.03    |
| 17) Chrysene-d12            | 21.171 | 240  | 12275m   | 0.400 | ng/ul  | -0.02    |
| 23) Perylene-d12            | 23.366 | 264  | 13004m   | 0.400 | ng/ul  | -0.03    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.101  | 96   | 18877    | 3.232 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.927 | 152  | 5128     | 0.237 | ng/ul  | -0.04    |
| 18) Fluoranthene-d10        | 18.999 | 212  | 10735    | 0.268 | ng/ul  | -0.03    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.371 | 128  | 2928     | 0.076 | ng/ul# | 92       |
| 7) 2-Methylnaphthalene      | 12.004 | 142  | 941      | 0.039 | ng/ul  | 92       |
| 8) 1-Methylnaphthalene      | 12.224 | 142  | 697      | 0.028 | ng/ul  | 95       |
| 10) Acenaphthylene          | 13.920 | 152  | 5584     | 0.184 | ng/ul  | 95       |
| 11) Acenaphthene            | 14.262 | 153  | 2594     | 0.103 | ng/ul  | 98       |
| 12) Fluorene                | 15.257 | 166  | 3078     | 0.107 | ng/ul# | 98       |
| 15) Phenanthrene            | 16.999 | 178  | 58082m   | 1.492 | ng/ul  |          |
| 16) Anthracene              | 17.092 | 178  | 12529m   | 0.394 | ng/ul  |          |
| 19) Fluoranthene            | 19.032 | 202  | 126575   | 2.536 | ng/ul  | 97       |
| 20) Pyrene                  | 19.394 | 202  | 111421   | 2.157 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.156 | 228  | 56542    | 1.447 | ng/ul  | 96       |
| 22) Chrysene                | 21.209 | 228  | 62601    | 1.108 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 22.711 | 252  | 91086m   | 1.985 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.749 | 252  | 34466m   | 0.616 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.269 | 252  | 61722    | 1.554 | ng/ul# | 88       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.576 | 276  | 49799    | 0.926 | ng/ul# | 90       |
| 28) Dibenzo(a,h)anthracene  | 25.572 | 278  | 11151    | 0.268 | ng/ul# | 71       |
| 29) Benzo(g,h,i)perylene    | 26.253 | 276  | 49363    | 1.099 | ng/ul  | 99       |
| -----                       |        |      |          |       |        |          |

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

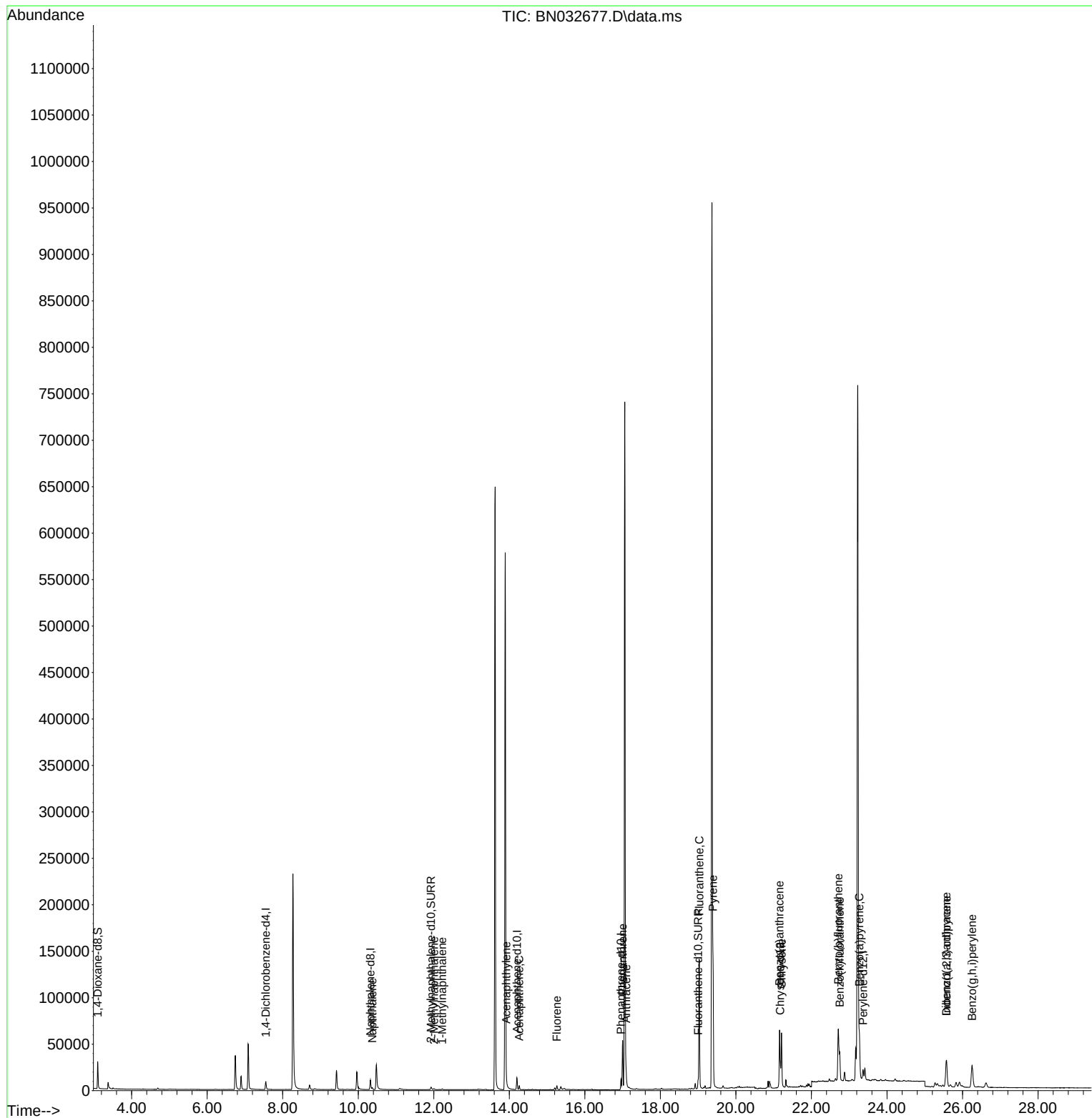
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071224\  
Data File : BN032677.D  
Acq On : 12 Jul 2024 17:59  
Operator : MA/JU  
Sample : P3087-16  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

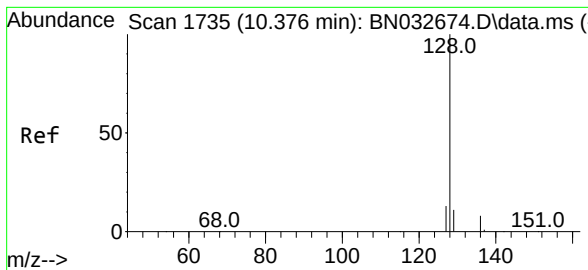
Instrument :  
BNA\_N  
ClientSampleId :  
A4BR1

Manual Integrations  
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Supervised By :mohammad ahmed 07/16/2024

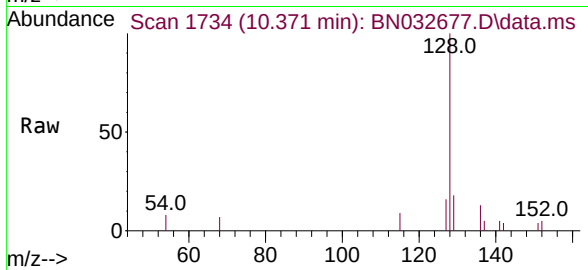
Quant Time: Jul 12 18:46:49 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN071224.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 12 01:40:24 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.076 ng/ul  
RT: 10.371 min Scan# 1734  
Delta R.T. -0.038 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59

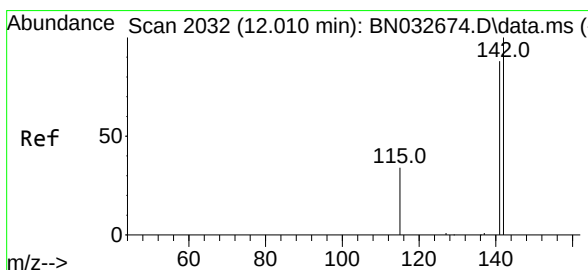
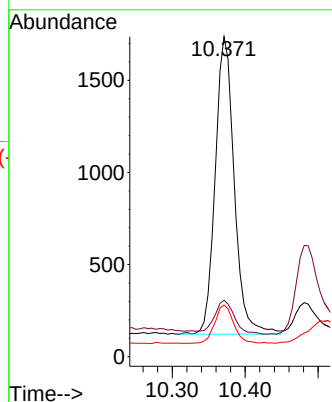
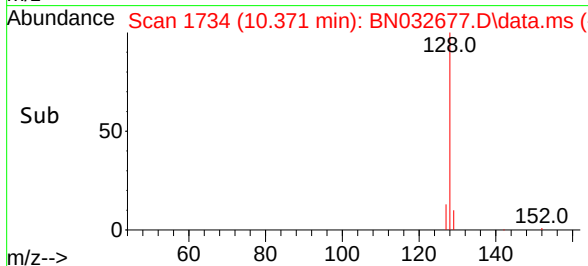
Instrument :  
BNA\_N  
ClientSampleId :  
A4BR1



Tgt Ion:128 Resp: 2928  
Ion Ratio Lower Upper  
128 100  
129 17.7 10.0 15.0  
127 16.2 11.6 17.4

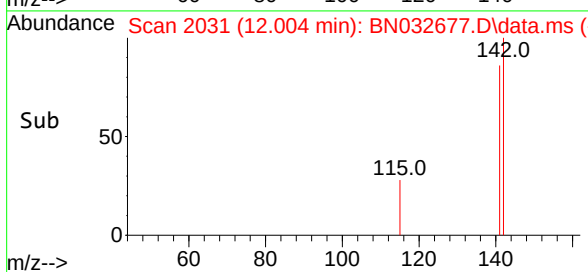
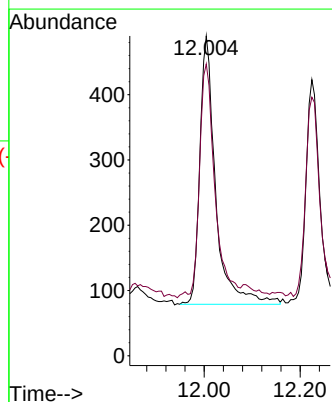
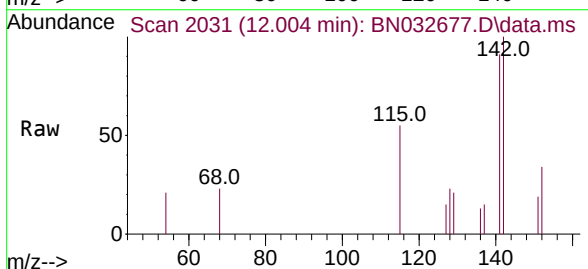
Manual Integrations  
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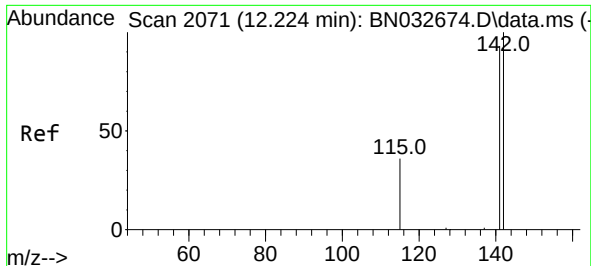
Reviewed By :Yogesh Patel 07/13/2024  
Supervised By :mohammad ahmed 07/16/2024



#7  
2-Methylnaphthalene  
Concen: 0.039 ng/ul  
RT: 12.004 min Scan# 2031  
Delta R.T. -0.044 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59

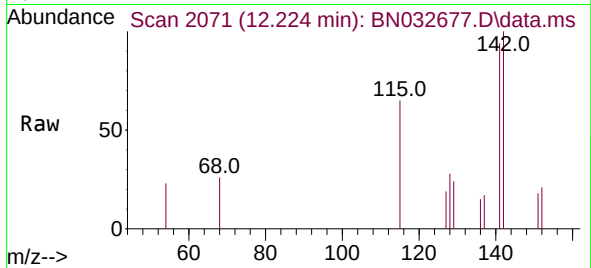
Tgt Ion:142 Resp: 941  
Ion Ratio Lower Upper  
142 100  
141 84.9 74.0 111.0





#8  
1-Methylnaphthalene  
Concen: 0.028 ng/ul  
RT: 12.224 min Scan# 2071  
Delta R.T. -0.022 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59

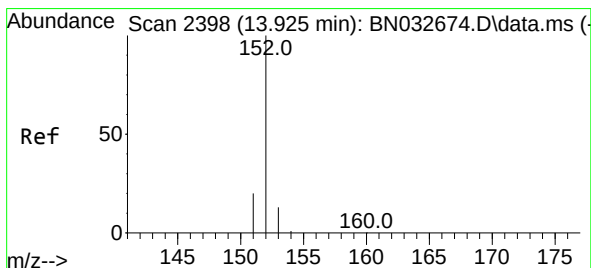
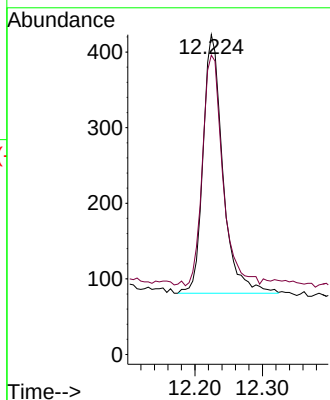
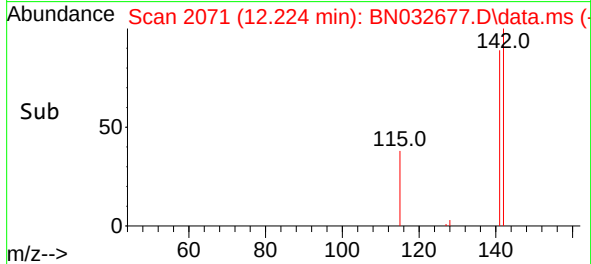
Instrument :  
BNA\_N  
ClientSampleId :  
A4BR1



Tgt Ion:142 Resp: 69  
Ion Ratio Lower Upper  
142 100  
141 89.2 75.0 112.4

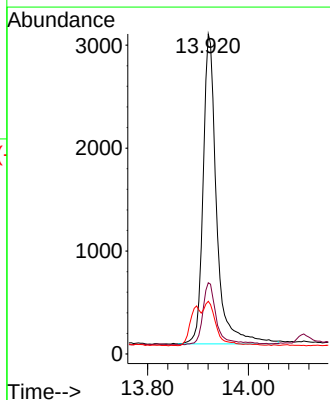
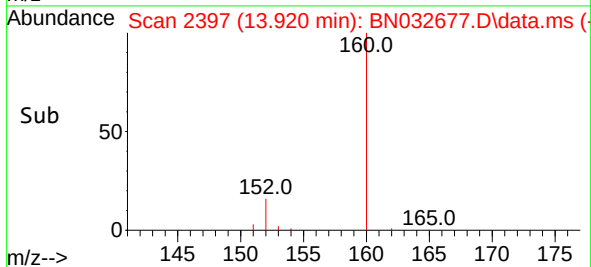
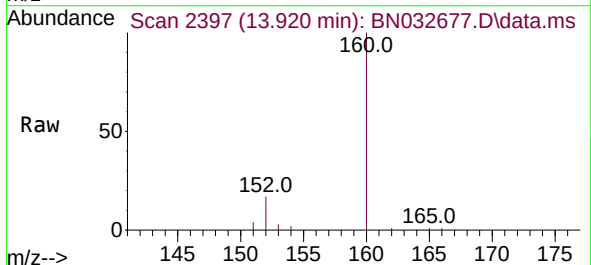
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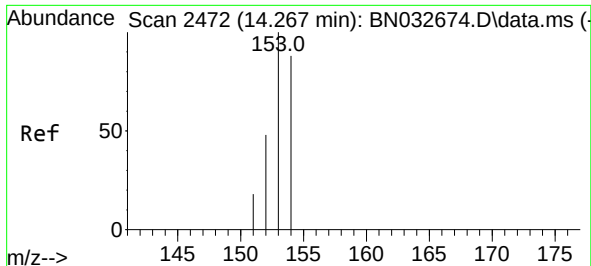
Reviewed By :Yogesh Patel 07/13/2024  
Supervised By :mohammad ahmed 07/16/2024



#10  
Acenaphthylene  
Concen: 0.184 ng/ul  
RT: 13.920 min Scan# 2397  
Delta R.T. -0.023 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59

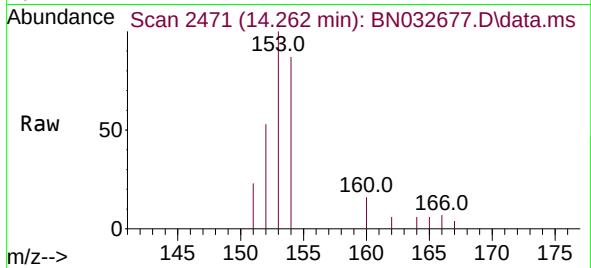
Tgt Ion:152 Resp: 5584  
Ion Ratio Lower Upper  
152 100  
151 22.3 16.3 24.5  
153 16.4 11.3 16.9





#11  
Acenaphthene  
Concen: 0.103 ng/ul  
RT: 14.262 min Scan# 2471  
Delta R.T. -0.018 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59

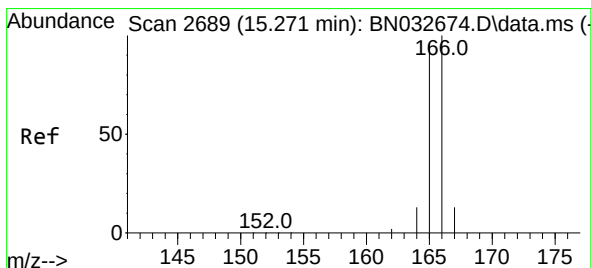
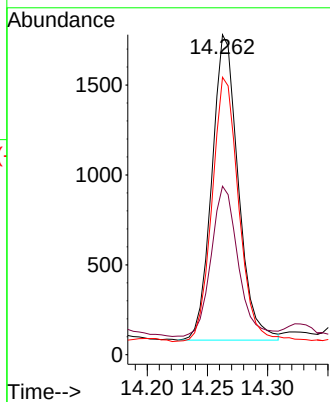
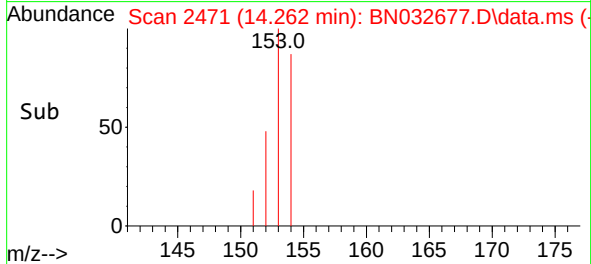
Instrument :  
BNA\_N  
ClientSampleId :  
A4BR1



Tgt Ion:153 Resp: 2594  
Ion Ratio Lower Upper  
153 100  
152 52.6 40.0 60.0  
154 86.7 70.2 105.4

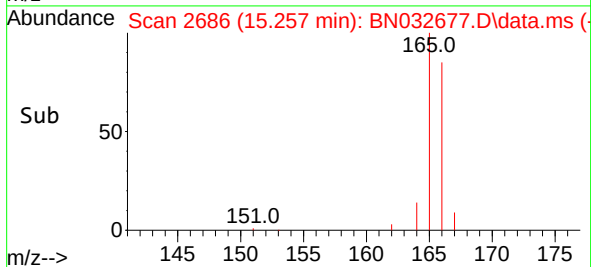
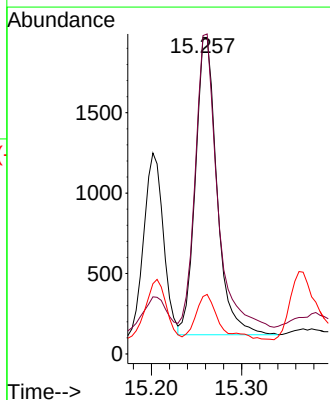
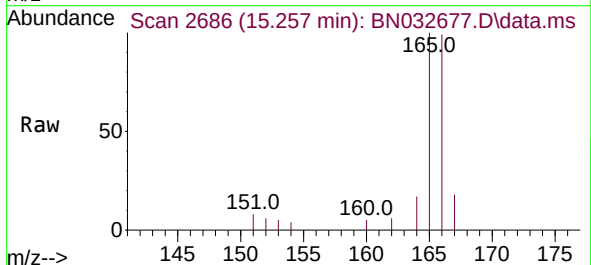
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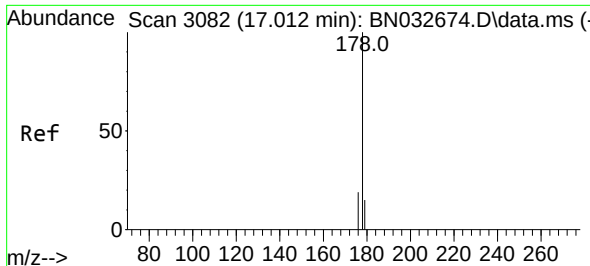
Reviewed By :Yogesh Patel 07/13/2024  
Supervised By :mohammad ahmed 07/16/2024



#12  
Fluorene  
Concen: 0.107 ng/ul  
RT: 15.257 min Scan# 2686  
Delta R.T. -0.032 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59

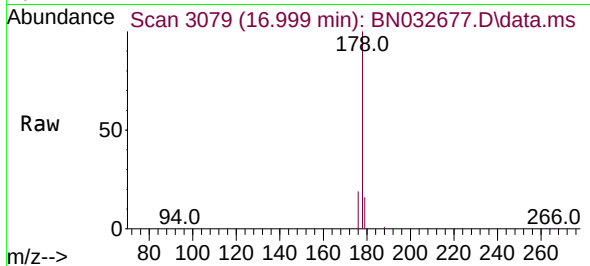
Tgt Ion:166 Resp: 3078  
Ion Ratio Lower Upper  
166 100  
165 100.6 79.7 119.5  
167 18.1 11.4 17.2#





#15  
Phenanthrene  
Concen: 1.492 ng/ul m  
RT: 16.999 min Scan# 3082  
Delta R.T. -0.029 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59

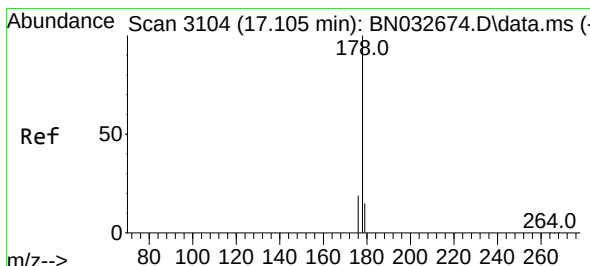
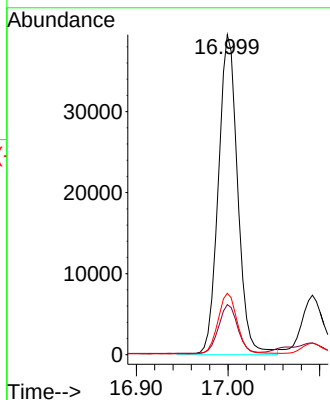
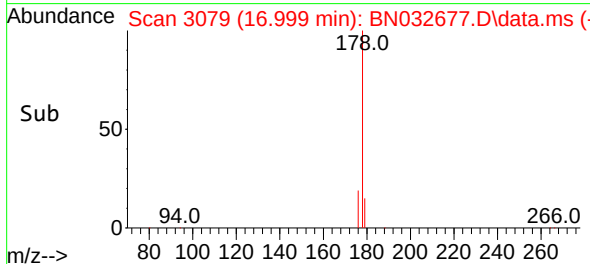
Instrument :  
BNA\_N  
ClientSampleId :  
A4BR1



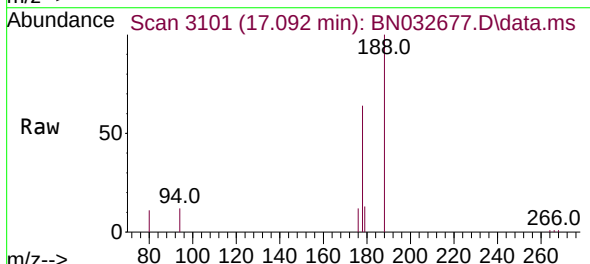
Tgt Ion:178 Resp: 5808  
Ion Ratio Lower Upper  
178 100  
179 15.7 13.0 19.4  
176 19.2 15.6 23.4

Manual Integrations  
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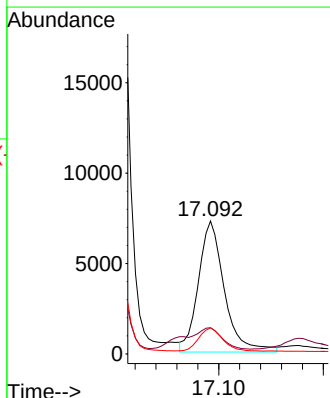
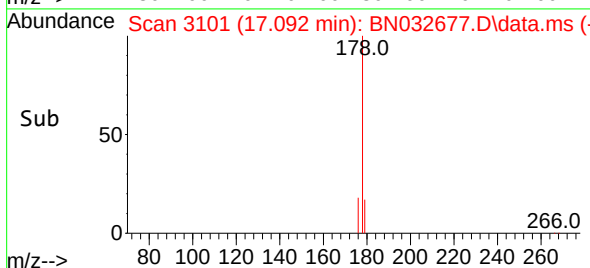
Reviewed By :Yogesh Patel 07/13/2024  
Supervised By :mohammad ahmed 07/16/2024

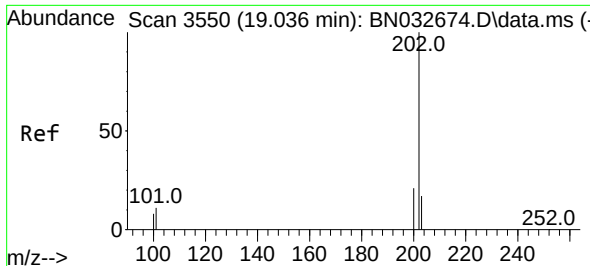


#16  
Anthracene  
Concen: 0.394 ng/ul m  
RT: 17.092 min Scan# 3101  
Delta R.T. -0.046 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59



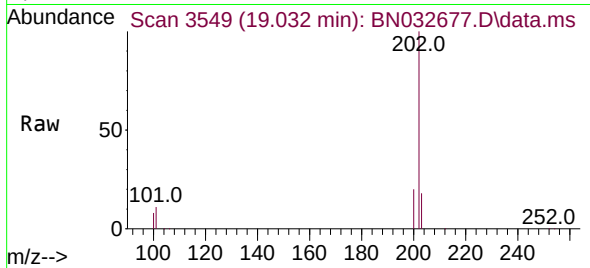
Tgt Ion:178 Resp: 12529  
Ion Ratio Lower Upper  
178 100  
179 19.7 13.4 20.2  
176 19.6 15.4 23.0





#19  
Fluoranthene  
Concen: 2.536 ng/u1  
RT: 19.032 min Scan# 3549  
Delta R.T. -0.023 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59

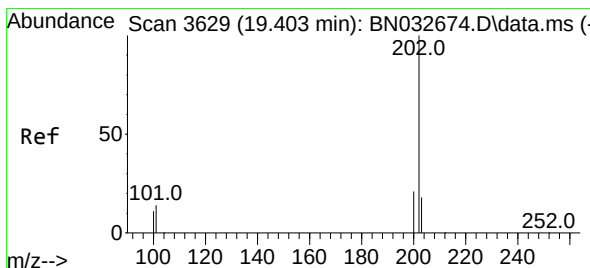
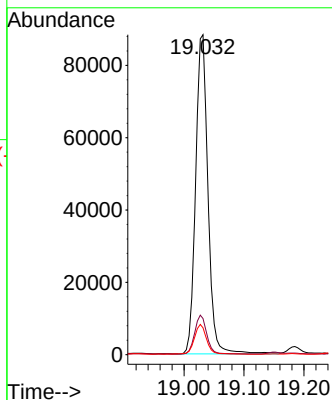
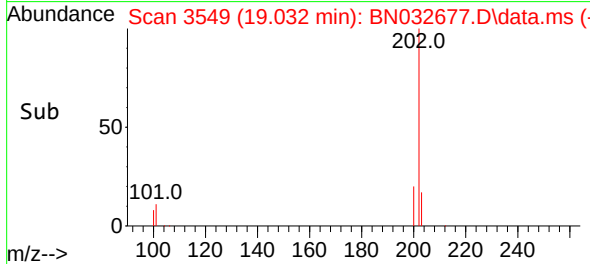
Instrument :  
BNA\_N  
ClientSampleId :  
A4BR1



Tgt Ion:202 Resp: 126579  
Ion Ratio Lower Upper  
202 100  
101 11.3 9.8 14.8  
100 8.4 7.9 11.9

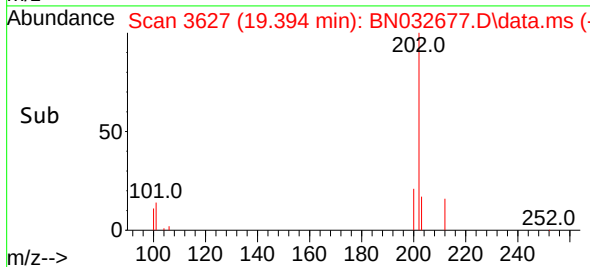
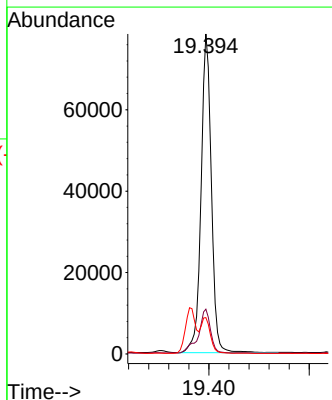
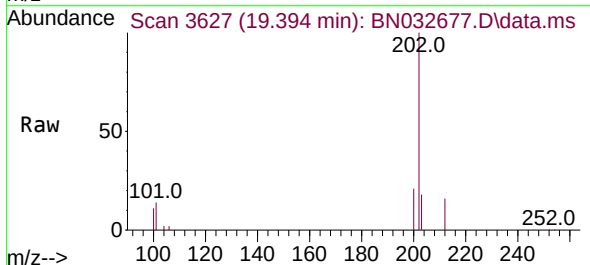
Manual Integrations  
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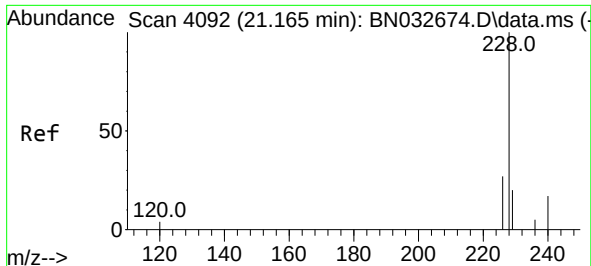
Reviewed By :Yogesh Patel 07/13/2024  
Supervised By :mohammad ahmed 07/16/2024



#20  
Pyrene  
Concen: 2.157 ng/u1  
RT: 19.394 min Scan# 3627  
Delta R.T. -0.028 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59

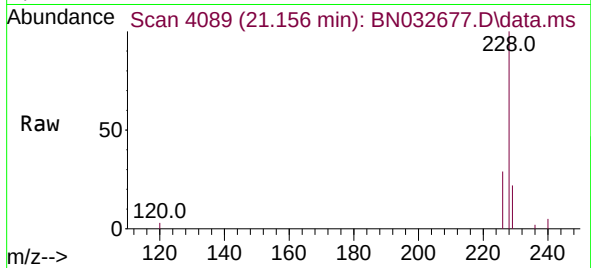
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Ion Ratio Lower Upper  
202 100  
101 14.0 11.8 17.6  
100 11.3 9.6 14.4





#21  
Benzo(a)anthracene  
Concen: 1.447 ng/ul  
RT: 21.156 min Scan# 4092  
Delta R.T. -0.026 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59

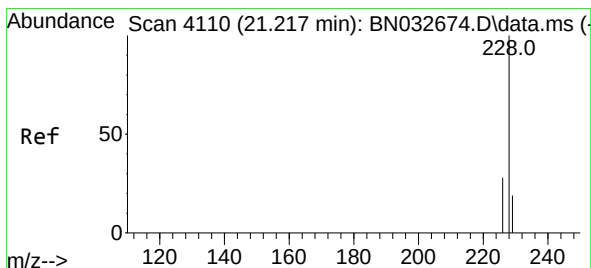
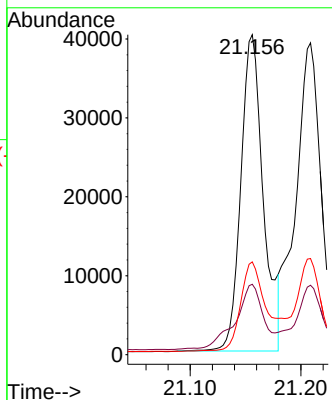
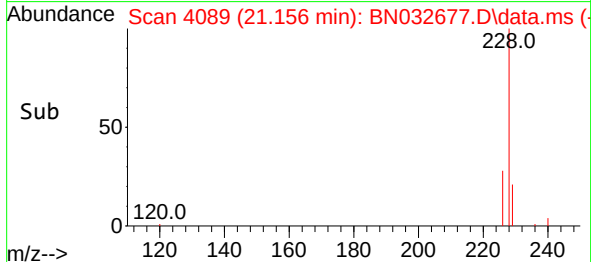
Instrument :  
BNA\_N  
ClientSampleId :  
A4BR1



Tgt Ion:228 Resp: 5654  
Ion Ratio Lower Upper  
228 100  
229 22.0 16.1 24.1  
226 29.0 21.9 32.9

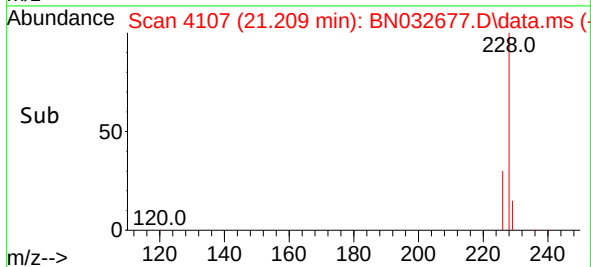
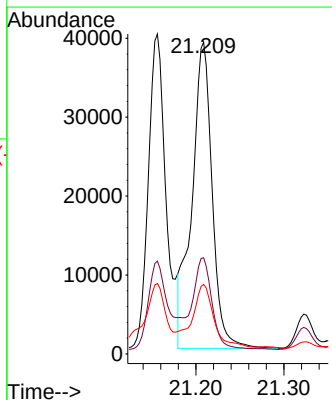
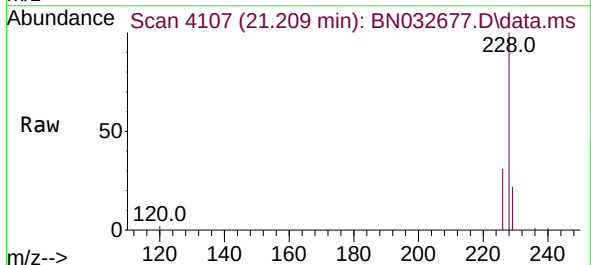
Manual Integrations  
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Supervised By :mohammad ahmed 07/16/2024

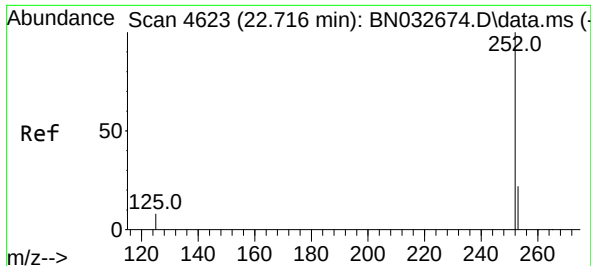


#22  
Chrysene  
Concen: 1.108 ng/ul  
RT: 21.209 min Scan# 4107  
Delta R.T. -0.023 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59

Tgt Ion:228 Resp: 62601  
Ion Ratio Lower Upper  
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226 30.9 24.0 36.0  
229 22.3 15.8 23.6

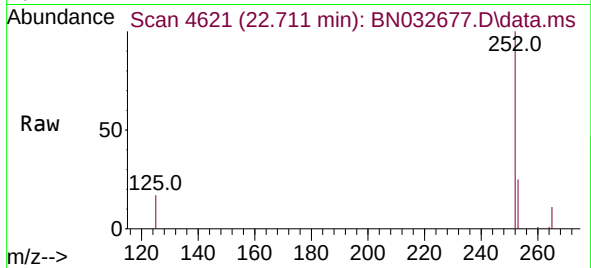






#24  
Benzo(b)fluoranthene  
Concen: 1.985 ng/ul m  
RT: 22.711 min Scan# 4621  
Delta R.T. -0.023 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59

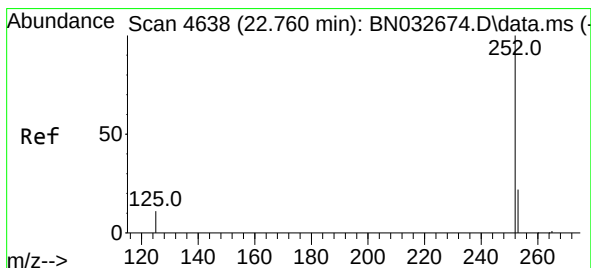
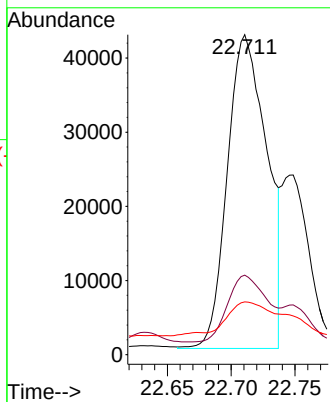
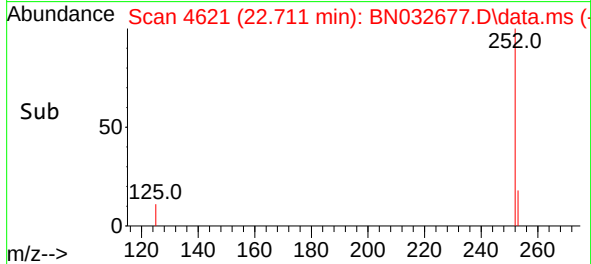
Instrument :  
BNA\_N  
ClientSampleId :  
A4BR1



Tgt Ion:252 Resp: 91080  
Ion Ratio Lower Upper  
252 100  
253 24.9 0.0 54.0  
125 16.5 0.0 36.0

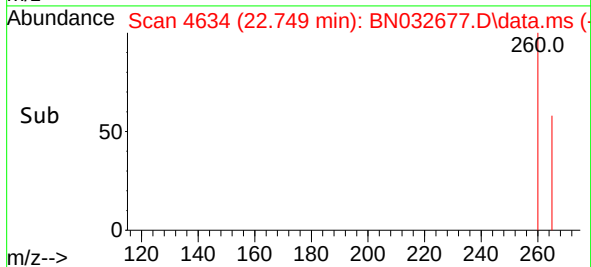
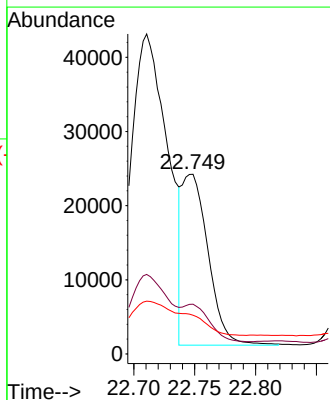
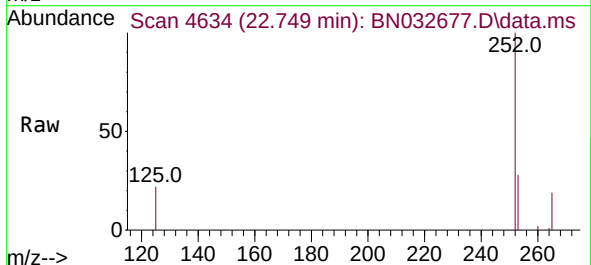
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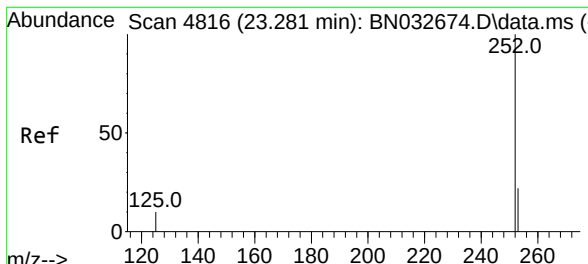
Reviewed By :Yogesh Patel 07/13/2024  
Supervised By :mohammad ahmed 07/16/2024



#25  
Benzo(k)fluoranthene  
Concen: 0.616 ng/ul m  
RT: 22.749 min Scan# 4634  
Delta R.T. -0.029 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59

Tgt Ion:252 Resp: 34466  
Ion Ratio Lower Upper  
252 100  
253 27.7 21.2 31.8  
125 21.5 14.8 22.2





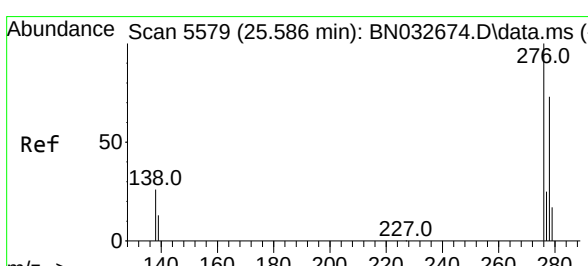
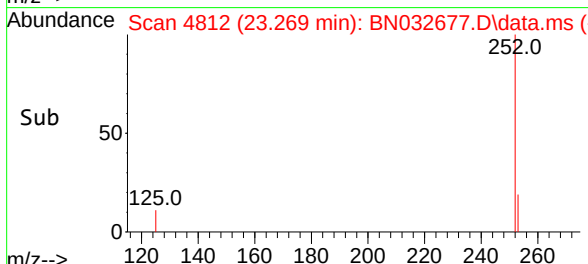
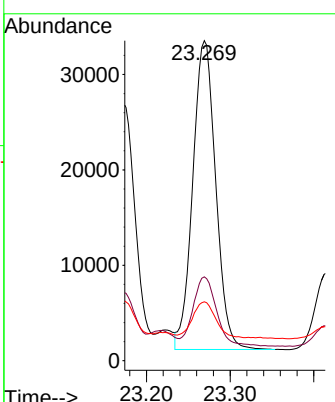
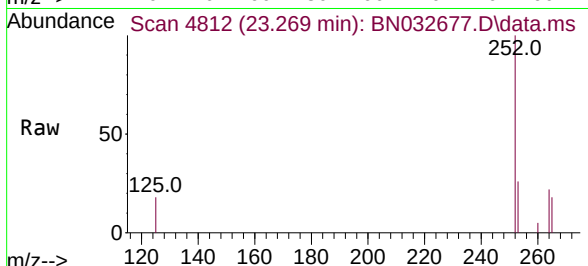
#26  
 Benzo(a)pyrene  
 Concen: 1.554 ng/ul  
 RT: 23.269 min Scan# 4816  
 Delta R.T. -0.041 min  
 Lab File: BN032677.D  
 Acq: 12 Jul 2024 17:59

Instrument : BNA\_N  
 ClientSampleId : A4BR1

Tgt Ion:252 Resp: 6172

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 26.2  | 25.4  | 38.0  |
| 125 | 18.4  | 20.6  | 30.8  |

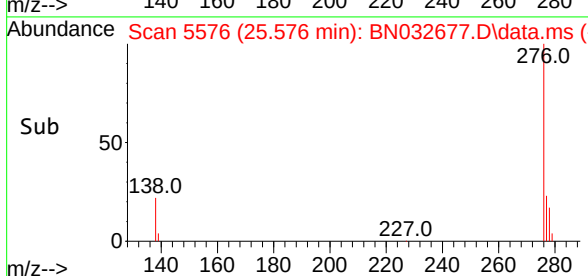
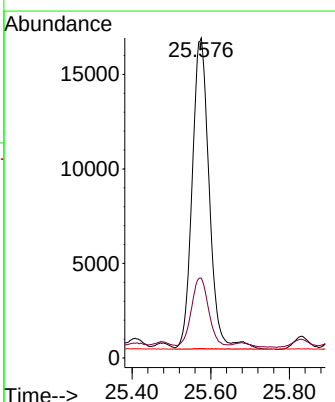
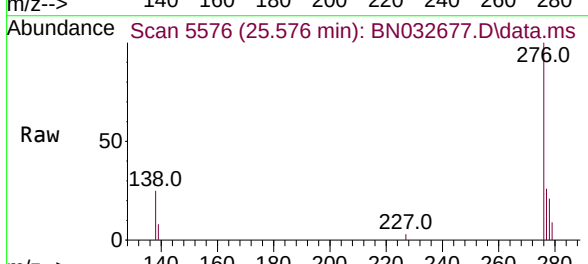
Manual Integrations  
**APPROVED**  
 Reviewed By :Yogesh Patel 07/13/2024  
 Supervised By :mohammad ahmed 07/16/2024

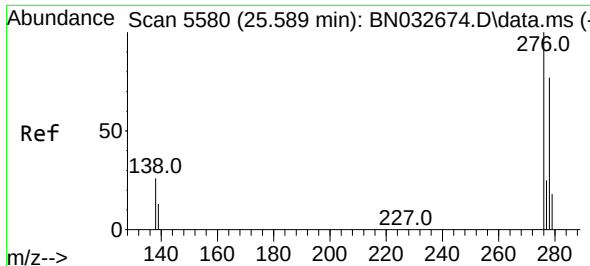


#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.926 ng/ul  
 RT: 25.576 min Scan# 5576  
 Delta R.T. -0.050 min  
 Lab File: BN032677.D  
 Acq: 12 Jul 2024 17:59

Tgt Ion:276 Resp: 49799

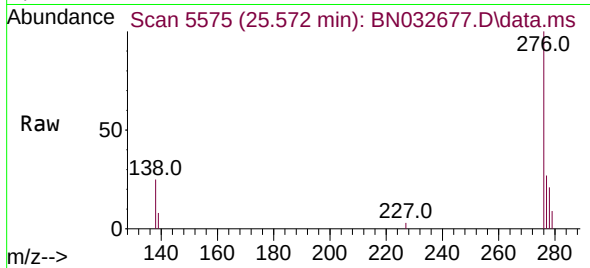
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 21.9  | 21.6  | 32.4  |
| 227 | 0.0   | 0.0   | 0.0   |





#28  
Dibenzo(a,h)anthracene  
Concen: 0.268 ng/ul  
RT: 25.572 min Scan# 5575  
Delta R.T. -0.067 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59

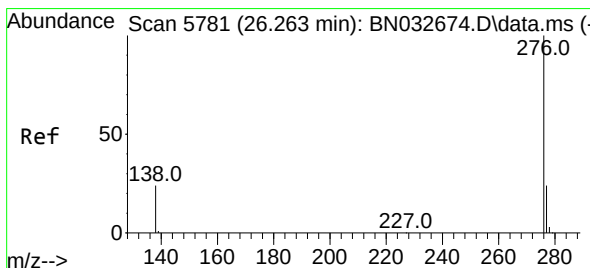
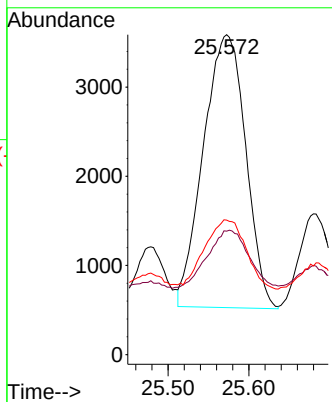
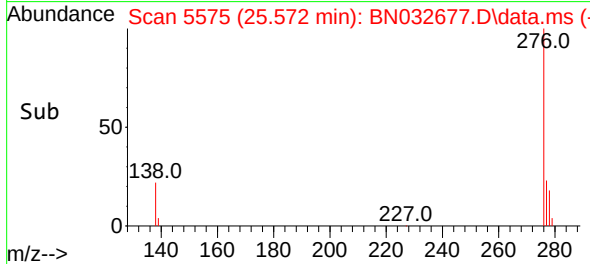
Instrument :  
BNA\_N  
ClientSampleId :  
A4BR1



Tgt Ion:278 Resp: 1115  
Ion Ratio Lower Upper  
278 100  
139 38.6 16.6 24.8  
279 42.1 23.7 35.5

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/13/2024  
Supervised By :mohammad ahmed 07/16/2024



#29  
Benzo(g,h,i)perylene  
Concen: 1.099 ng/ul  
RT: 26.253 min Scan# 5778  
Delta R.T. -0.047 min  
Lab File: BN032677.D  
Acq: 12 Jul 2024 17:59

Tgt Ion:276 Resp: 49363  
Ion Ratio Lower Upper  
276 100  
138 25.4 21.0 31.4  
277 26.1 20.6 31.0

