

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
 Data File : BN032870.D  
 Acq On : 20 Jul 2024 09:15  
 Operator : MA/JU  
 Sample : P3238-07  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4BF0

Manual Integrations  
 APPROVED

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

Quant Time: Jul 21 22:43:24 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  | 4625     | 0.400 | ng/ul  | -0.01    |
| 4) Naphthalene-d8           | 10.294 | 136  | 14518    | 0.400 | ng/ul  | -0.02    |
| 9) Acenaphthene-d10         | 14.179 | 164  | 8313     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.940 | 188  | 17108m   | 0.400 | ng/ul  | -0.02    |
| 17) Chrysene-d12            | 21.159 | 240  | 13516m   | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.348 | 264  | 15650m   | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.084  | 96   | 17741    | 3.195 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.900 | 152  | 4724     | 0.215 | ng/ul  | -0.03    |
| 18) Fluoranthene-d10        | 18.980 | 212  | 9176     | 0.208 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.343 | 128  | 22465    | 0.576 | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 11.971 | 142  | 6527     | 0.268 | ng/ul  | 96       |
| 8) 1-Methylnaphthalene      | 12.197 | 142  | 4370     | 0.174 | ng/ul  | 98       |
| 10) Acenaphthylene          | 13.897 | 152  | 6367     | 0.190 | ng/ul# | 91       |
| 11) Acenaphthene            | 14.239 | 153  | 21856    | 0.787 | ng/ul  | 98       |
| 12) Fluorene                | 15.238 | 166  | 23150    | 0.729 | ng/ul  | 99       |
| 15) Phenanthrene            | 16.982 | 178  | 268958m  | 5.773 | ng/ul  |          |
| 16) Anthracene              | 17.071 | 178  | 54747m   | 1.438 | ng/ul  |          |
| 19) Fluoranthene            | 19.013 | 202  | 334199   | 6.082 | ng/ul  | 98       |
| 20) Pyrene                  | 19.380 | 202  | 277642   | 4.881 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.141 | 228  | 142742   | 3.318 | ng/ul  | 98       |
| 22) Chrysene                | 21.194 | 228  | 134976   | 2.169 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 22.696 | 252  | 172293m  | 3.120 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.731 | 252  | 62990m   | 0.936 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.254 | 252  | 129795   | 2.716 | ng/ul# | 87       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.556 | 276  | 89124    | 1.377 | ng/ul# | 91       |
| 28) Dibenzo(a,h)anthracene  | 25.552 | 278  | 23032    | 0.459 | ng/ul# | 72       |
| 29) Benzo(g,h,i)perylene    | 26.233 | 276  | 84215    | 1.557 | ng/ul  | 98       |
| -----                       |        |      |          |       |        |          |

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

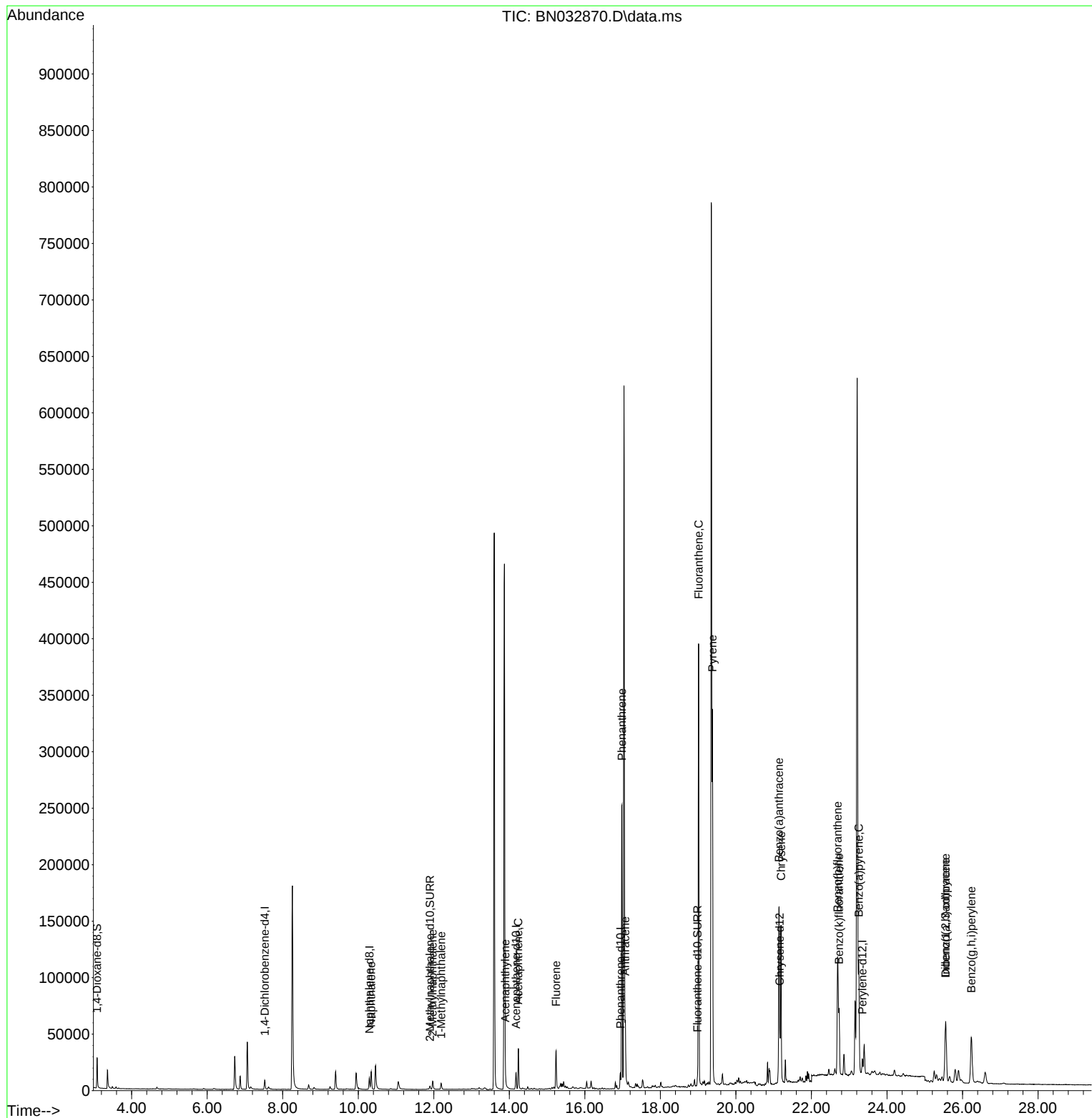
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071924\  
Data File : BN032870.D  
Acq On : 20 Jul 2024 09:15  
Operator : MA/JU  
Sample : P3238-07  
Misc :  
ALS Vial : 34 Sample Multiplier: 1

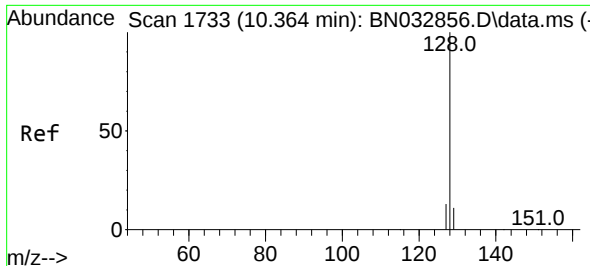
Instrument :  
BNA\_N  
ClientSampleId :  
A4BF0

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

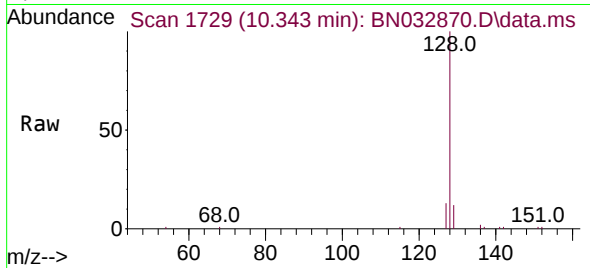
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN071224.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jul 20 01:52:15 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.576 ng/ul  
RT: 10.343 min Scan# 1729  
Delta R.T. -0.021 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15

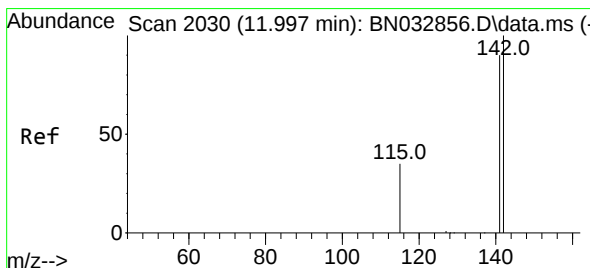
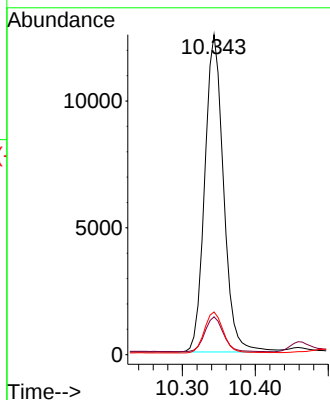
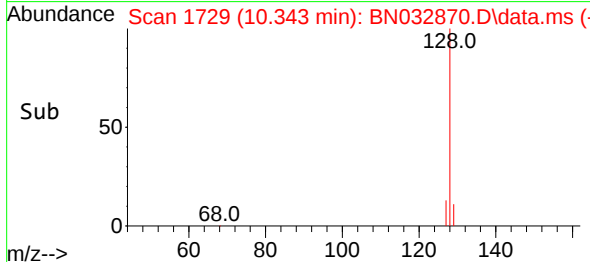
Instrument :  
BNA\_N  
ClientSampleId :  
A4BF0



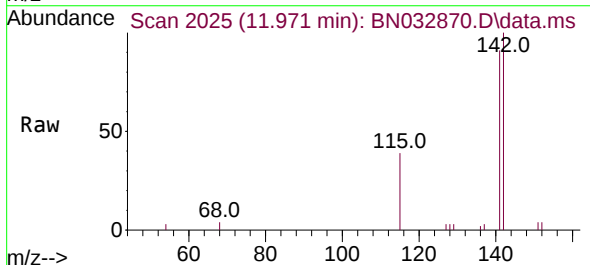
Tgt Ion:128 Resp: 2246  
Ion Ratio Lower Upper  
128 100  
129 11.8 10.0 15.0  
127 13.3 11.6 17.4

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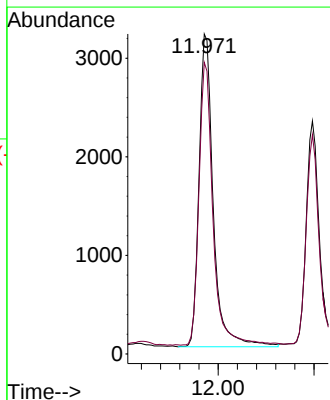
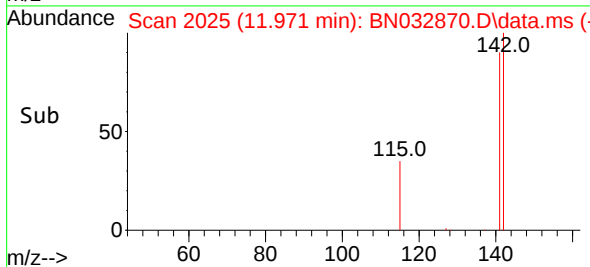
Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024

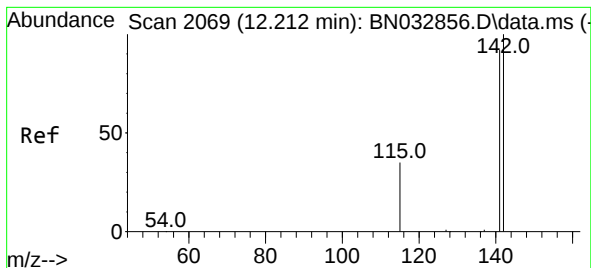


#7  
2-Methylnaphthalene  
Concen: 0.268 ng/ul  
RT: 11.971 min Scan# 2025  
Delta R.T. -0.026 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15



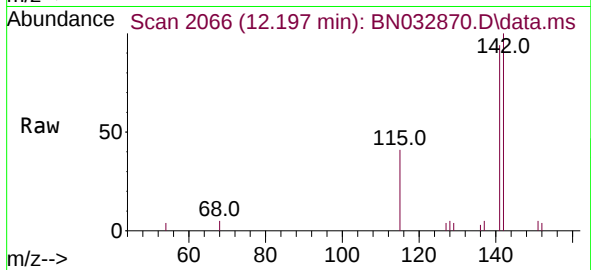
Tgt Ion:142 Resp: 6527  
Ion Ratio Lower Upper  
142 100  
141 89.1 74.0 111.0





#8  
1-Methylnaphthalene  
Concen: 0.174 ng/ul  
RT: 12.197 min Scan# 2066  
Delta R.T. -0.015 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15

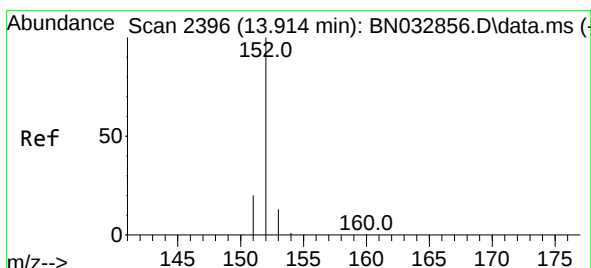
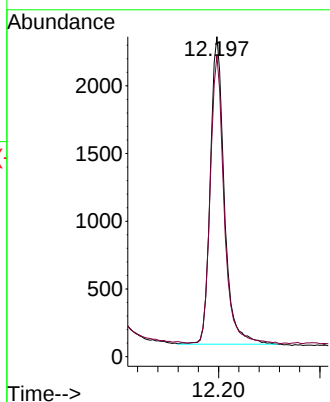
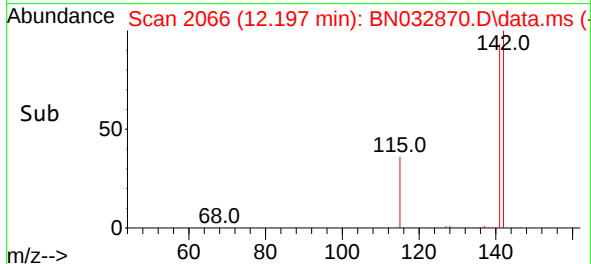
Instrument :  
BNA\_N  
ClientSampleId :  
A4BF0



Tgt Ion:142 Resp: 4370  
Ion Ratio Lower Upper  
142 100  
141 92.1 75.0 112.4

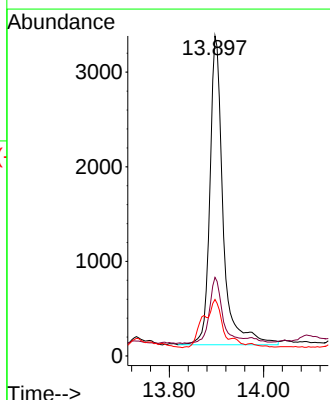
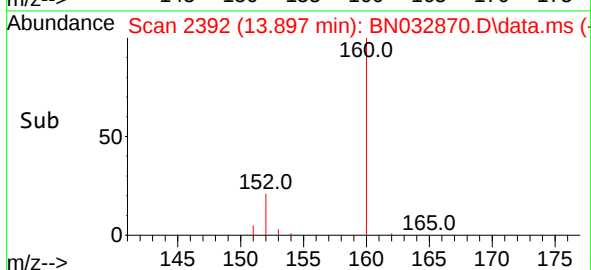
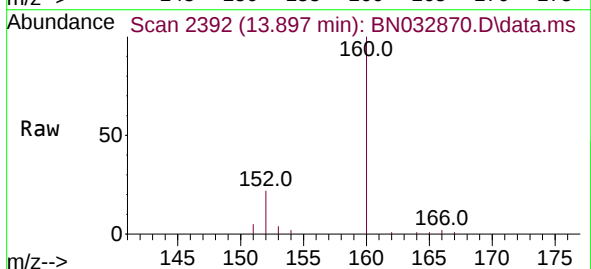
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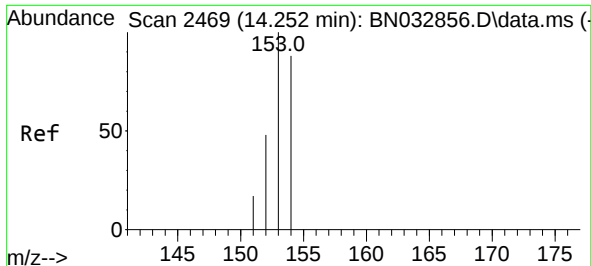
Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024



#10  
Acenaphthylene  
Concen: 0.190 ng/ul  
RT: 13.897 min Scan# 2392  
Delta R.T. -0.017 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15

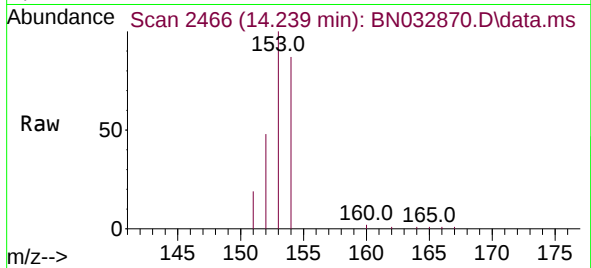
Tgt Ion:152 Resp: 6367  
Ion Ratio Lower Upper  
152 100  
151 24.6 16.3 24.5#  
153 17.6 11.3 16.9#





#11  
Acenaphthene  
Concen: 0.787 ng/ul  
RT: 14.239 min Scan# 2466  
Delta R.T. -0.012 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15

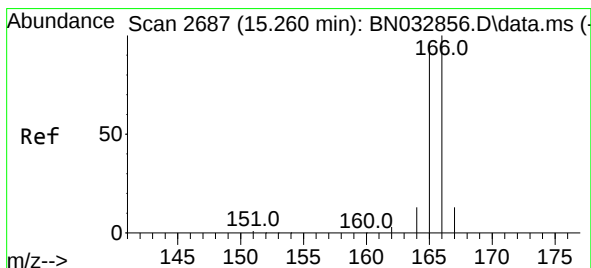
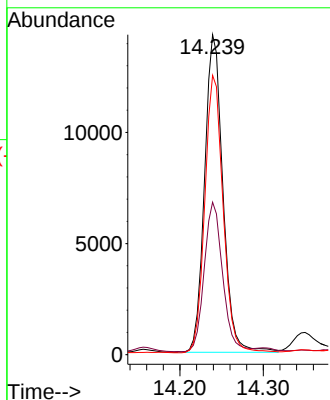
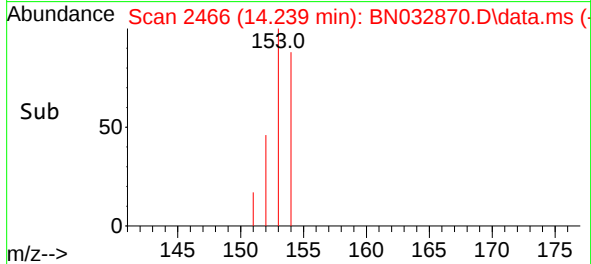
Instrument :  
BNA\_N  
ClientSampleId :  
A4BF0



Tgt Ion:153 Resp: 21850  
Ion Ratio Lower Upper  
153 100  
152 47.7 40.0 60.0  
154 87.3 70.2 105.4

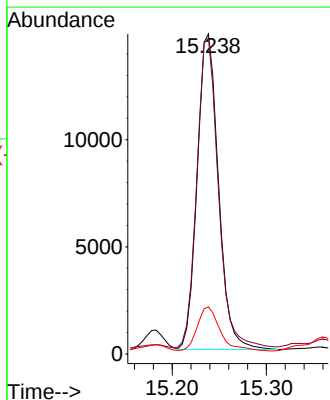
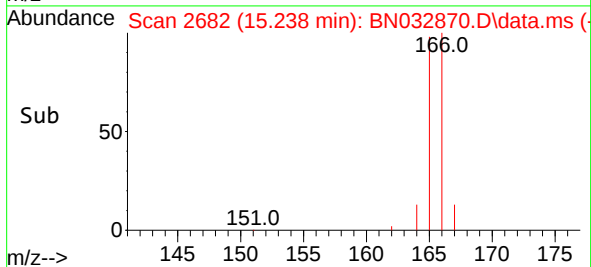
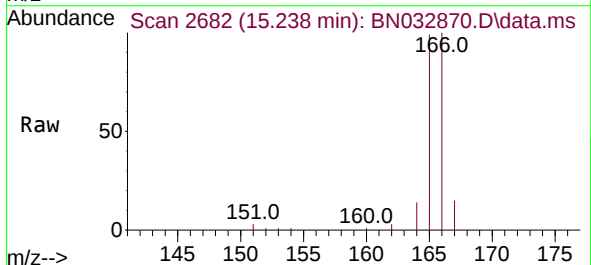
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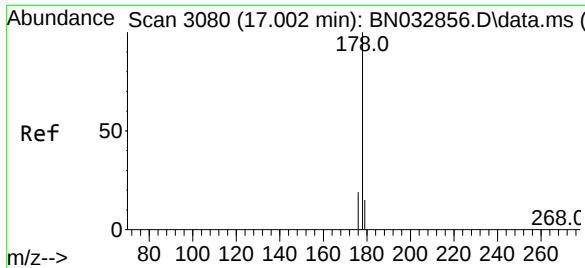
Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024



#12  
Fluorene  
Concen: 0.729 ng/ul  
RT: 15.238 min Scan# 2682  
Delta R.T. -0.022 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15

Tgt Ion:166 Resp: 23150  
Ion Ratio Lower Upper  
166 100  
165 98.8 79.7 119.5  
167 14.7 11.4 17.2





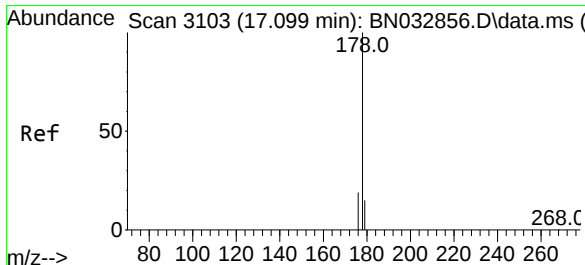
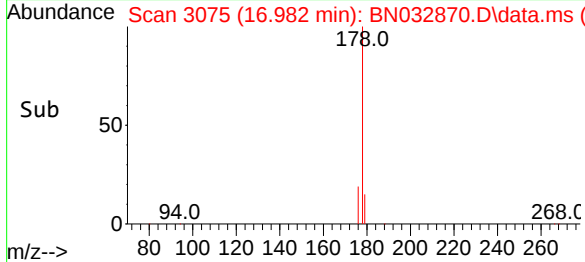
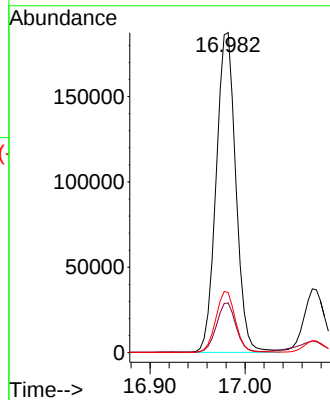
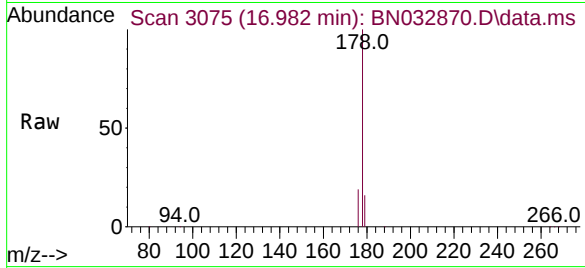
#15  
Phenanthrene  
Concen: 5.773 ng/ul m  
RT: 16.982 min Scan# 3075  
Delta R.T. -0.020 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15

Instrument :  
BNA\_N  
ClientSampleId :  
A4BF0

Tgt Ion:178 Resp: 268958  
Ion Ratio Lower Upper  
178 100  
179 15.5 13.0 19.4  
176 18.8 15.6 23.4

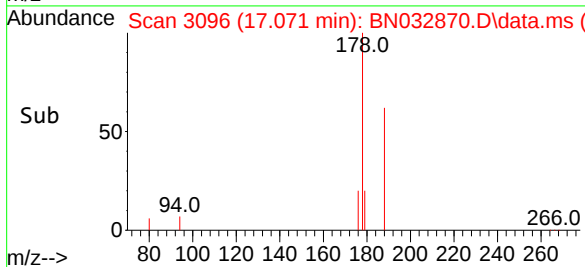
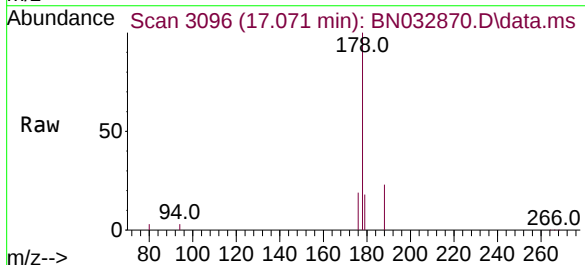
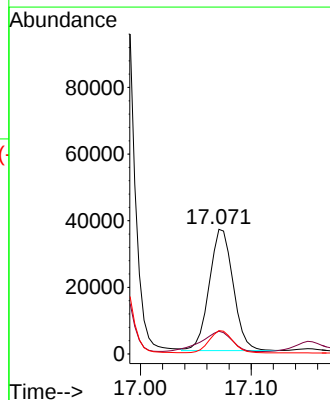
Manual Integrations  
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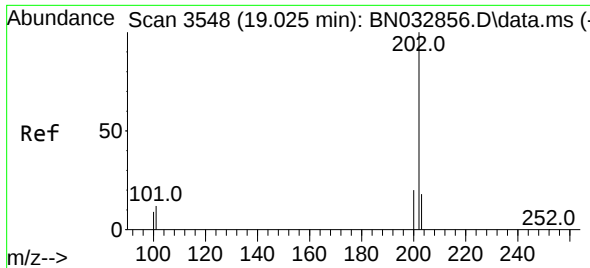
Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024



#16  
Anthracene  
Concen: 1.438 ng/ul m  
RT: 17.071 min Scan# 3096  
Delta R.T. -0.028 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15

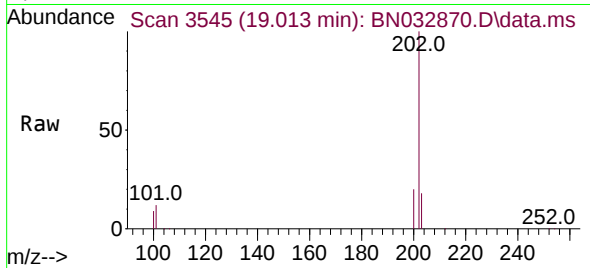
Tgt Ion:178 Resp: 54747  
Ion Ratio Lower Upper  
178 100  
179 18.3 13.4 20.2  
176 18.8 15.4 23.0





#19  
Fluoranthene  
Concen: 6.082 ng/u1  
RT: 19.013 min Scan# 3545  
Delta R.T. -0.012 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15

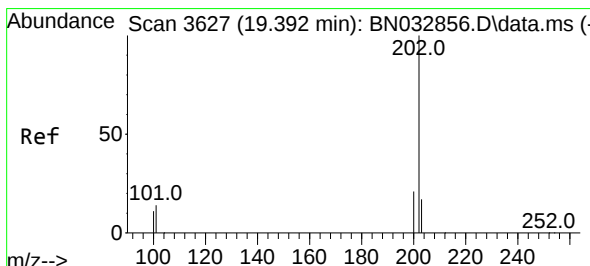
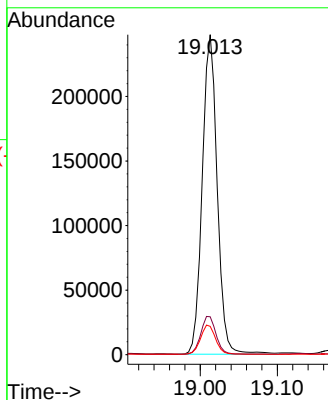
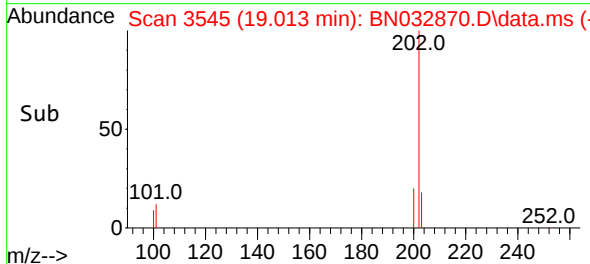
Instrument :  
BNA\_N  
ClientSampleId :  
A4BF0



Tgt Ion:202 Resp: 334199  
Ion Ratio Lower Upper  
202 100  
101 11.9 9.8 14.8  
100 8.9 7.9 11.9

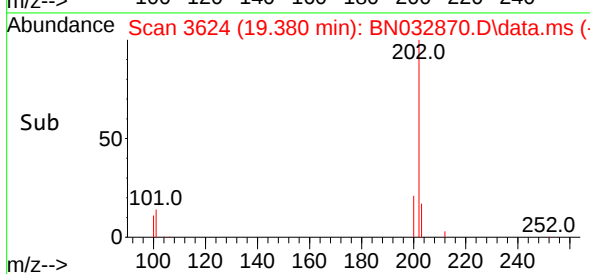
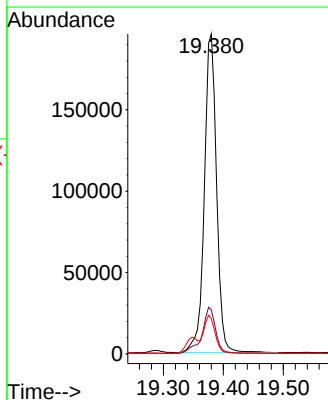
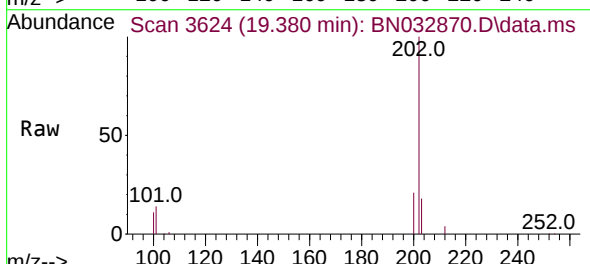
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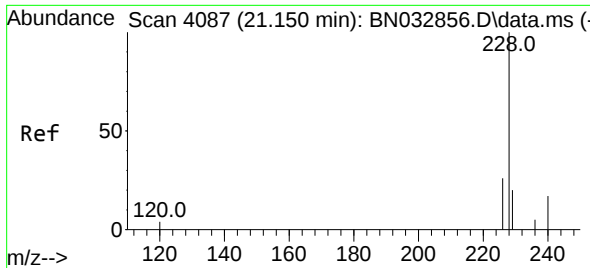
Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024



#20  
Pyrene  
Concen: 4.881 ng/u1  
RT: 19.380 min Scan# 3624  
Delta R.T. -0.012 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15

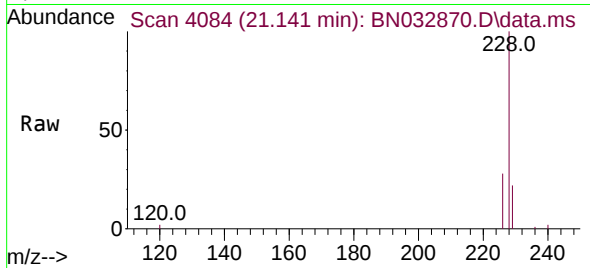
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Ion Ratio Lower Upper  
202 100  
101 13.7 11.8 17.6  
100 11.0 9.6 14.4





#21  
Benzo(a)anthracene  
Concen: 3.318 ng/ul  
RT: 21.141 min Scan# 4087  
Delta R.T. -0.009 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15

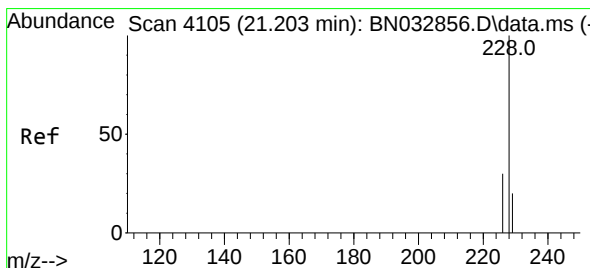
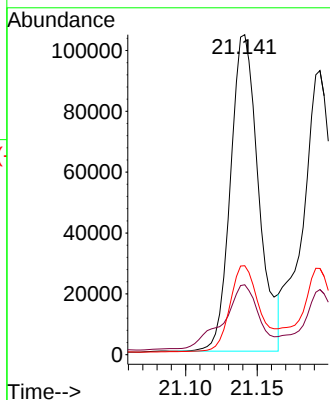
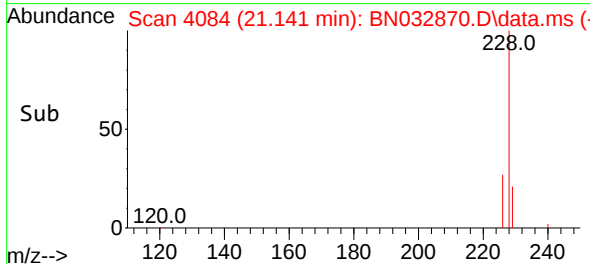
Instrument :  
BNA\_N  
ClientSampleId :  
A4BF0



Tgt Ion:228 Resp: 14274  
Ion Ratio Lower Upper  
228 100  
229 21.9 16.1 24.1  
226 27.8 21.9 32.9

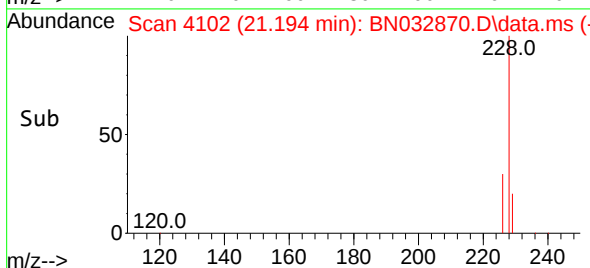
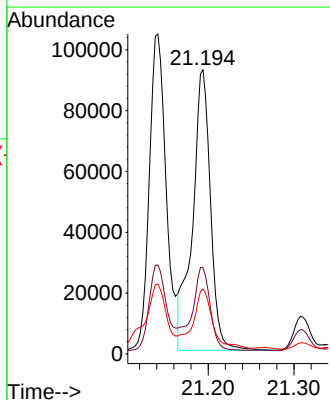
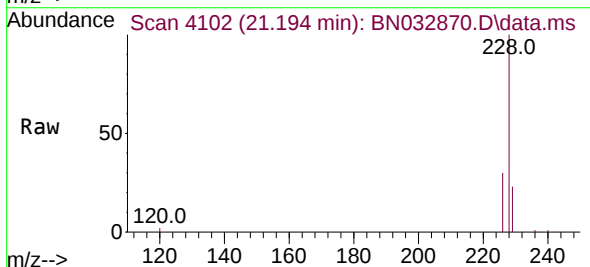
Manual Integrations  
APPROVED

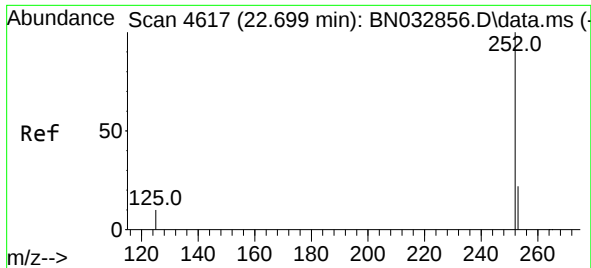
Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024



#22  
Chrysene  
Concen: 2.169 ng/ul  
RT: 21.194 min Scan# 4102  
Delta R.T. -0.009 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15

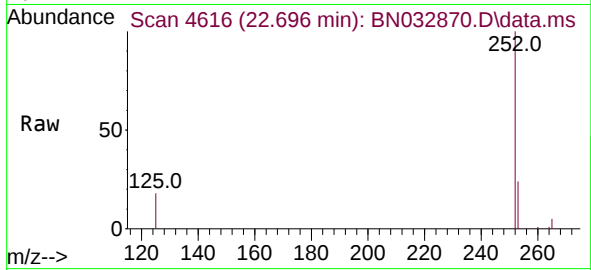
Tgt Ion:228 Resp: 134976  
Ion Ratio Lower Upper  
228 100  
226 30.4 24.0 36.0  
229 22.9 15.8 23.6





#24  
Benzo(b)fluoranthene  
Concen: 3.120 ng/ul m  
RT: 22.696 min Scan# 4617  
Delta R.T. -0.003 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15

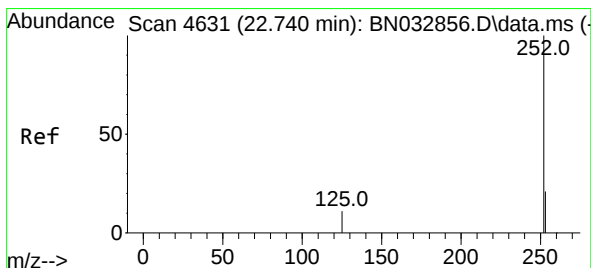
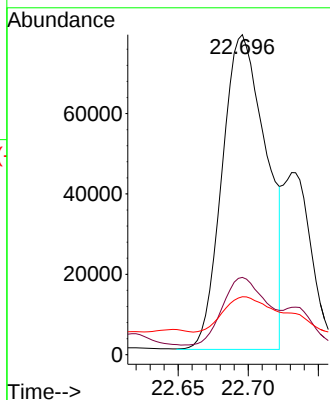
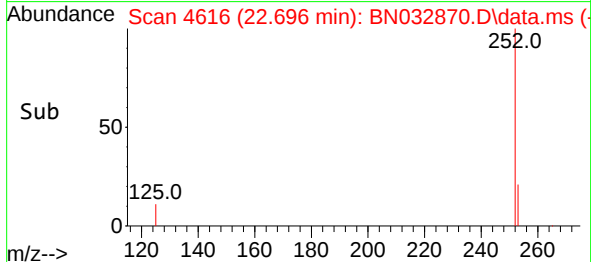
Instrument :  
BNA\_N  
ClientSampleId :  
A4BF0



Tgt Ion:252 Resp: 17229  
Ion Ratio Lower Upper  
252 100  
253 24.2 0.0 54.0  
125 18.1 0.0 36.0

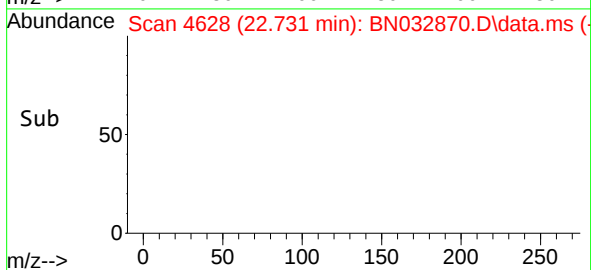
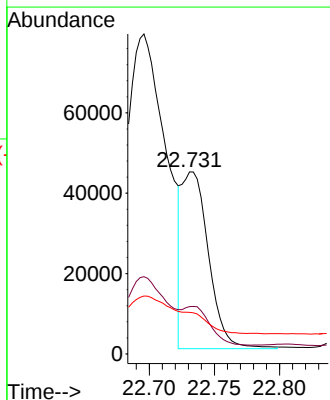
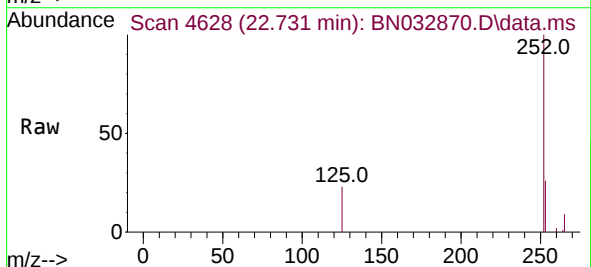
Manual Integrations  
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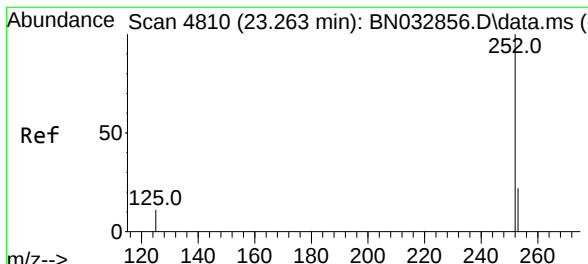
Reviewed By :Yogesh Patel 07/22/2024  
Supervised By :mohammad ahmed 07/22/2024



#25  
Benzo(k)fluoranthene  
Concen: 0.936 ng/ul m  
RT: 22.731 min Scan# 4628  
Delta R.T. -0.009 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15

Tgt Ion:252 Resp: 62990  
Ion Ratio Lower Upper  
252 100  
253 26.0 21.2 31.8  
125 22.8 14.8 22.2#





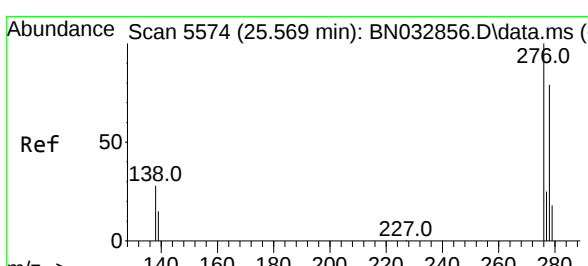
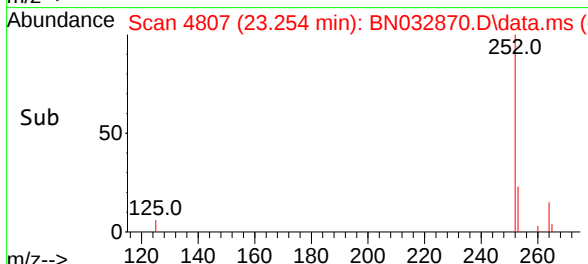
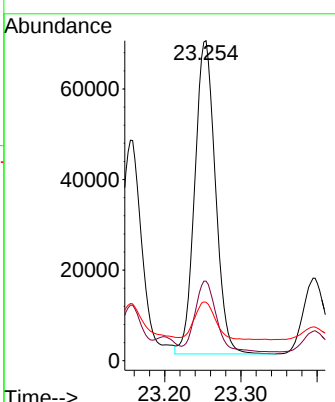
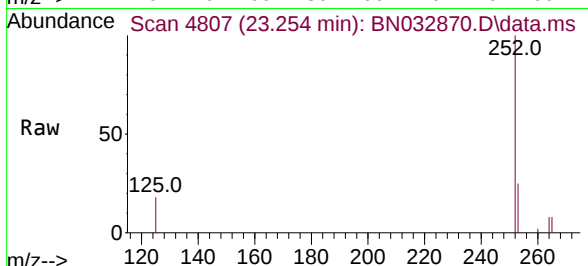
#26  
 Benzo(a)pyrene  
 Concen: 2.716 ng/ul  
 RT: 23.254 min Scan# 4810  
 Delta R.T. -0.009 min  
 Lab File: BN032870.D  
 Acq: 20 Jul 2024 09:15

Instrument : BNA\_N  
 ClientSampleId : A4BF0

Tgt Ion:252 Resp: 12979

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 24.9  | 25.4  | 38.0  |
| 125 | 18.3  | 20.6  | 30.8  |

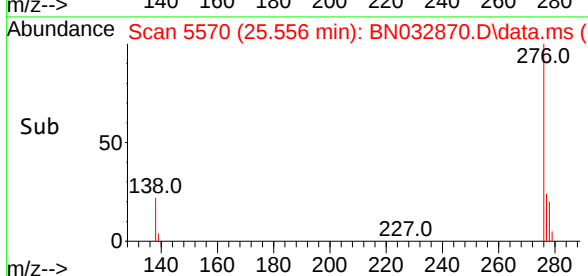
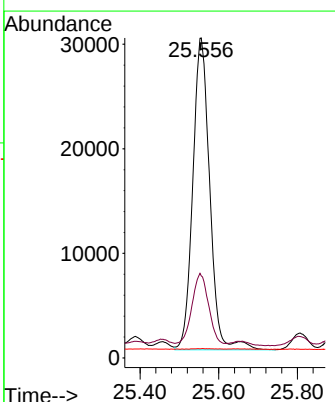
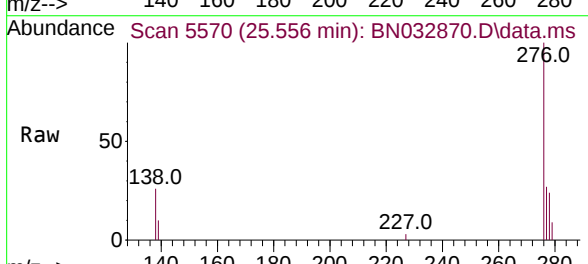
Manual Integrations  
**APPROVED**  
 Reviewed By :Yogesh Patel 07/22/2024  
 Supervised By :mohammad ahmed 07/22/2024

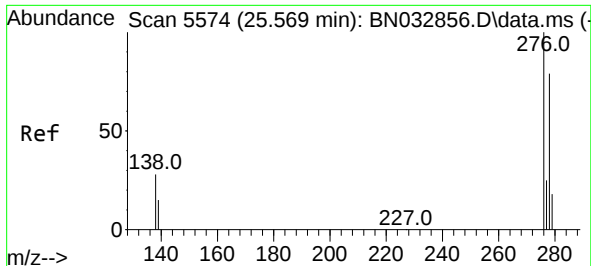


#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.377 ng/ul  
 RT: 25.556 min Scan# 5570  
 Delta R.T. -0.014 min  
 Lab File: BN032870.D  
 Acq: 20 Jul 2024 09:15

Tgt Ion:276 Resp: 89124

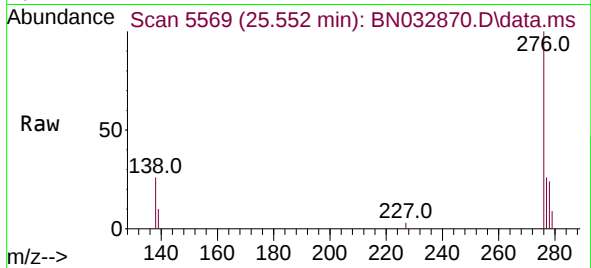
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 22.3  | 21.6  | 32.4  |
| 227 | 0.1   | 0.0   | 0.0   |





#28  
Dibenzo(a,h)anthracene  
Concen: 0.459 ng/ul  
RT: 25.552 min Scan# 5569  
Delta R.T. -0.017 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15

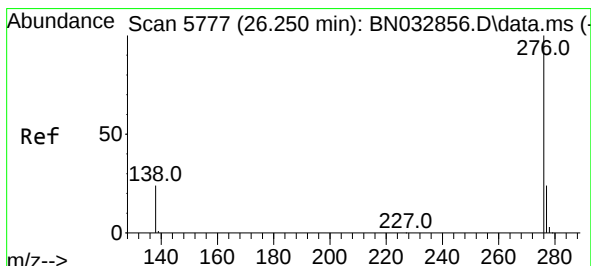
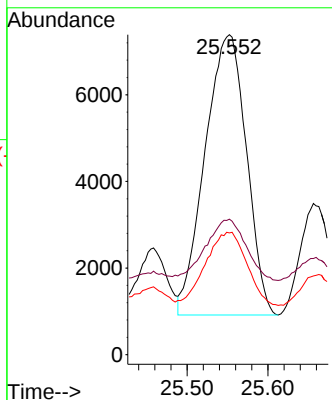
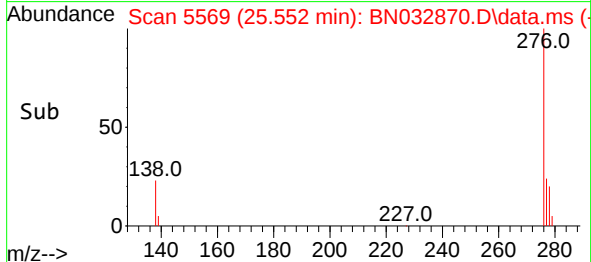
Instrument :  
BNA\_N  
ClientSampleId :  
A4BF0



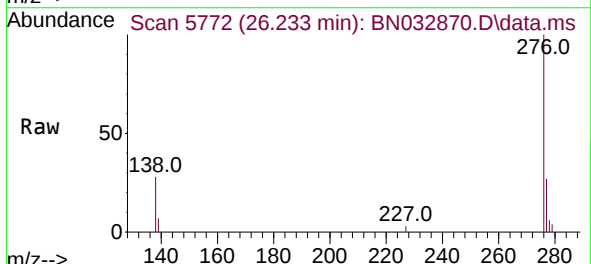
Tgt Ion:278 Resp: 23032  
Ion Ratio Lower Upper  
278 100  
139 42.3 16.6 24.8  
279 38.0 23.7 35.5

Manual Integrations  
APPROVED

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



#29  
Benzo(g,h,i)perylene  
Concen: 1.557 ng/ul  
RT: 26.233 min Scan# 5772  
Delta R.T. -0.017 min  
Lab File: BN032870.D  
Acq: 20 Jul 2024 09:15



Tgt Ion:276 Resp: 84215  
Ion Ratio Lower Upper  
276 100  
138 27.5 21.0 31.4  
277 26.7 20.6 31.0

