

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121224\  
 Data File : BN035586.D  
 Acq On : 12 Dec 2024 15:54  
 Operator : RC/JU  
 Sample : P5153-15  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 E28Q2

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/13/2024  
 Supervised By :mohammad ahmed 12/13/2024

Quant Time: Dec 12 16:59:15 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN111624.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 10 16:10:57 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.293  | 152  | 2178     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.037 | 136  | 6280     | 0.400 | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 13.954 | 164  | 3827     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.722 | 188  | 7478m    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 20.970 | 240  | 6082     | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.063 | 264  | 6460m    | 0.400 | ng/ul  | 0.01     |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 2.964  | 96   | 8156     | 4.097 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.637 | 152  | 2401     | 0.261 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 18.772 | 212  | 4875     | 0.291 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       |        | Qvalue   |
| 5) Naphthalene              | 10.086 | 128  | 4874m    | 0.308 | ng/ul  |          |
| 7) 2-Methylnaphthalene      | 11.714 | 142  | 3003     | 0.274 | ng/ul  | 97       |
| 8) 1-Methylnaphthalene      | 11.945 | 142  | 2221     | 0.201 | ng/ul  | 96       |
| 10) Acenaphthylene          | 13.667 | 152  | 3342     | 0.220 | ng/ul# | 88       |
| 11) Acenaphthene            | 14.014 | 153  | 2615     | 0.225 | ng/ul  | 98       |
| 12) Fluorene                | 15.018 | 166  | 3463     | 0.254 | ng/ul# | 95       |
| 15) Phenanthrene            | 16.760 | 178  | 65326    | 3.304 | ng/ul  | 100      |
| 16) Anthracene              | 16.852 | 178  | 20729    | 1.130 | ng/ul  | 98       |
| 19) Fluoranthene            | 18.805 | 202  | 92509    | 4.369 | ng/ul  | 99       |
| 20) Pyrene                  | 19.172 | 202  | 70823    | 3.214 | ng/ul  | 97       |
| 21) Benzo(a)anthracene      | 20.953 | 228  | 38988    | 1.847 | ng/ul# | 88       |
| 22) Chrysene                | 21.005 | 228  | 44438    | 2.092 | ng/ul# | 93       |
| 24) Benzo(b)fluoranthene    | 22.451 | 252  | 57688m   | 2.702 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.489 | 252  | 21071m   | 0.957 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 22.975 | 252  | 39200m   | 2.009 | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.098 | 276  | 31035m   | 1.178 | ng/ul  |          |
| 28) Dibenzo(a,h)anthracene  | 25.108 | 278  | 8454m    | 0.409 | ng/ul  |          |
| 29) Benzo(g,h,i)perylene    | 25.715 | 276  | 34820m   | 1.676 | ng/ul  |          |
| -----                       |        |      |          |       |        |          |

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

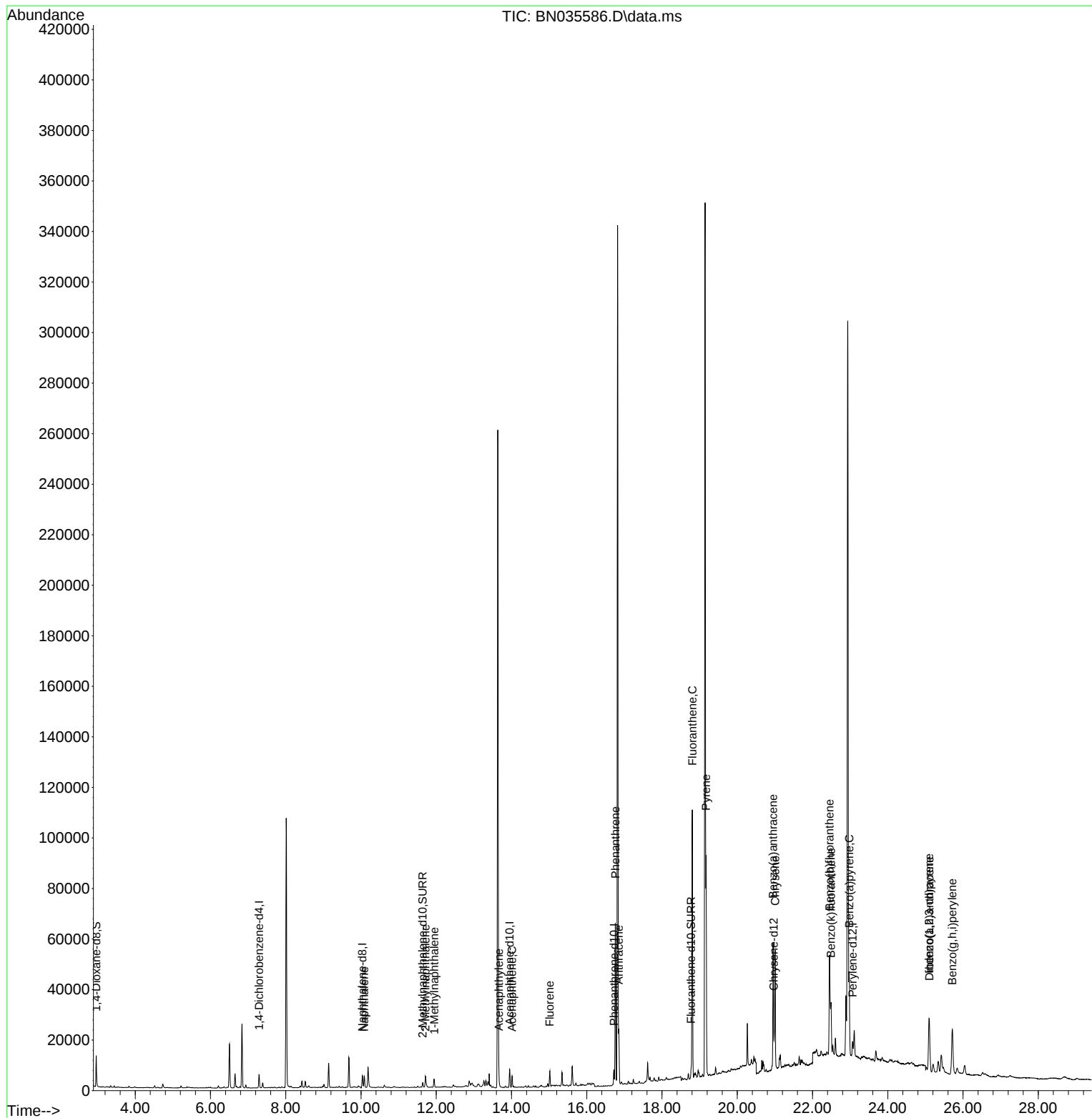
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN121224\  
Data File : BN035586.D  
Acq On : 12 Dec 2024 15:54  
Operator : RC/JU  
Sample : P5153-15  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

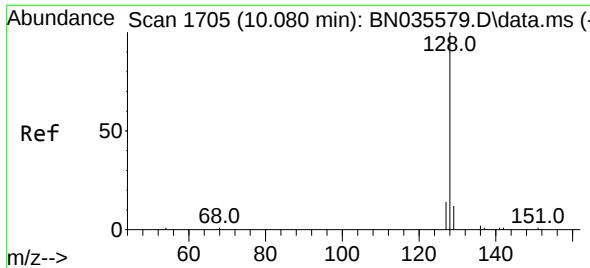
Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2

Manual Integrations  
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Reviewed By :Yogesh Patel 12/13/2024  
Supervised By :mohammad ahmed 12/13/2024

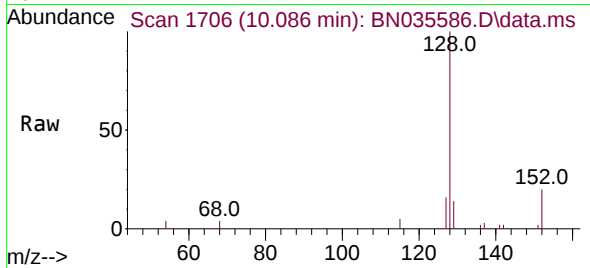
Quant Time: Dec 12 16:59:15 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN111624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 10 16:10:57 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.308 ng/ul m  
RT: 10.086 min Scan# 1705  
Delta R.T. 0.000 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54

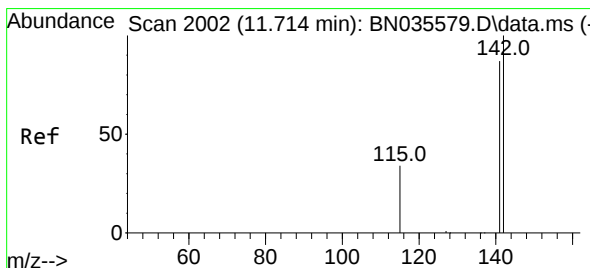
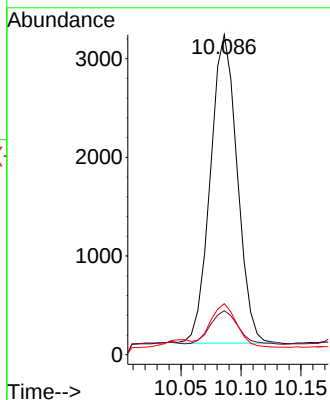
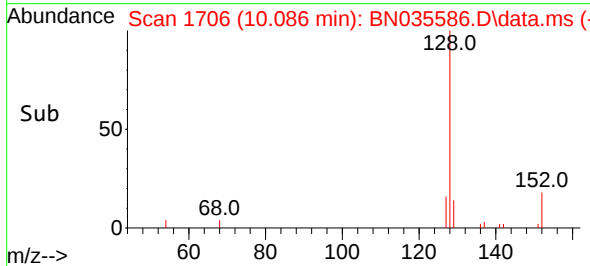
Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2



Tgt Ion:128 Resp: 4874  
Ion Ratio Lower Upper  
128 100  
129 13.8 9.9 14.9  
127 15.9 11.4 17.2

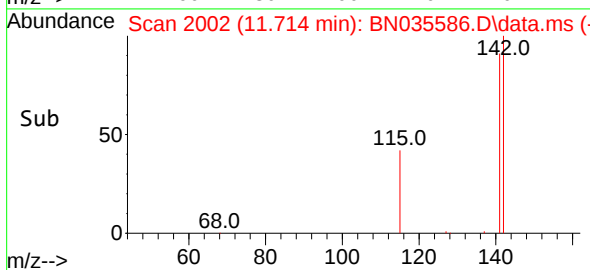
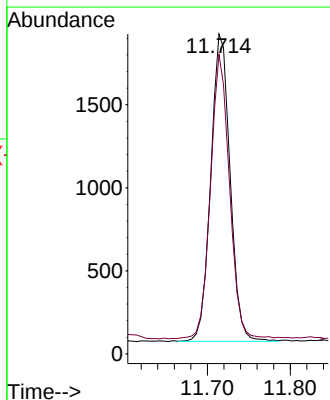
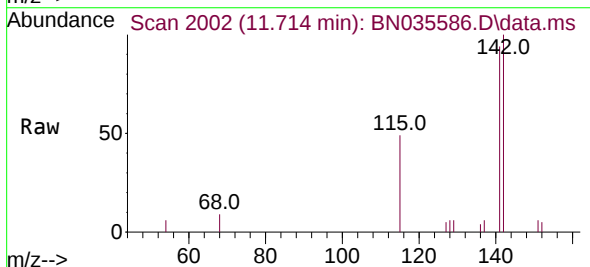
Manual Integrations  
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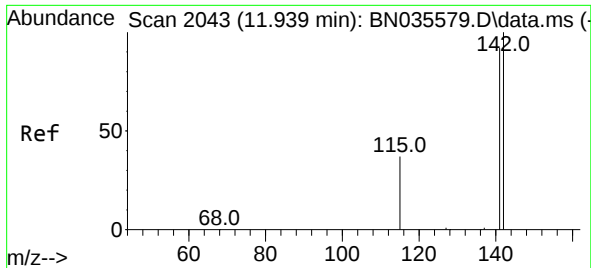
Reviewed By :Yogesh Patel 12/13/2024  
Supervised By :mohammad ahmed 12/13/2024



#7  
2-Methylnaphthalene  
Concen: 0.274 ng/ul  
RT: 11.714 min Scan# 2002  
Delta R.T. 0.000 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54

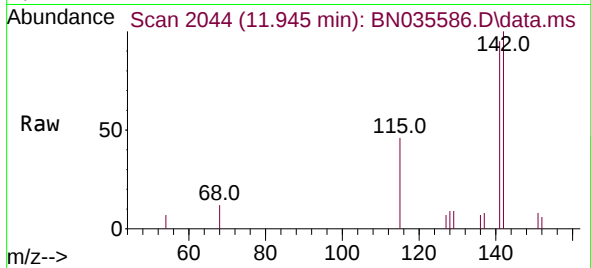
Tgt Ion:142 Resp: 3003  
Ion Ratio Lower Upper  
142 100  
141 91.0 70.4 105.6





#8  
1-Methylnaphthalene  
Concen: 0.201 ng/ul  
RT: 11.945 min Scan# 2044  
Delta R.T. 0.000 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54

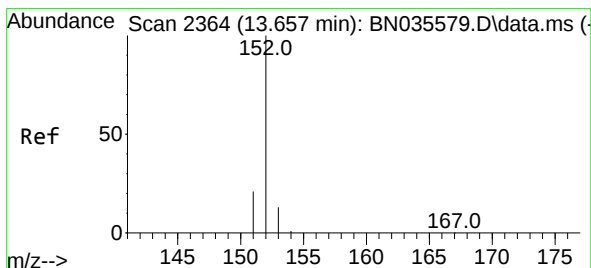
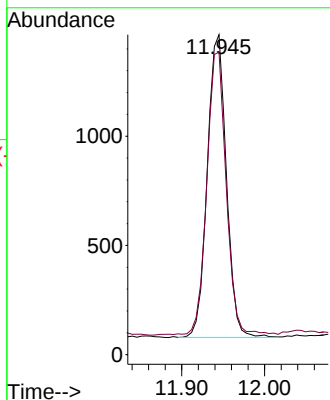
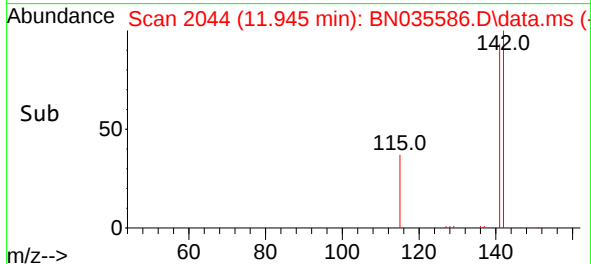
Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2



Tgt Ion:142 Resp: 222  
Ion Ratio Lower Upper  
142 100  
141 95.5 73.1 109.7

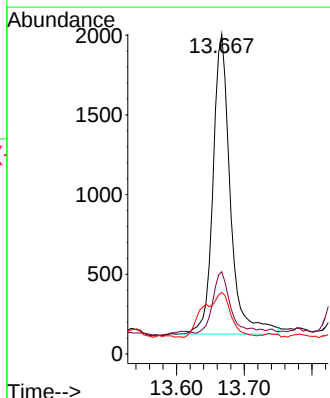
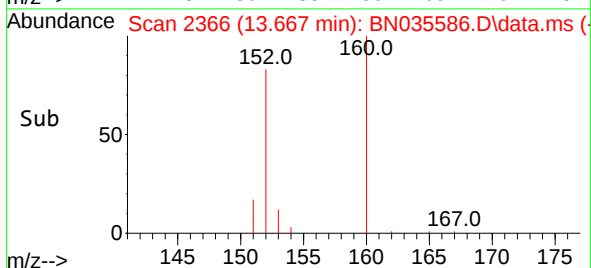
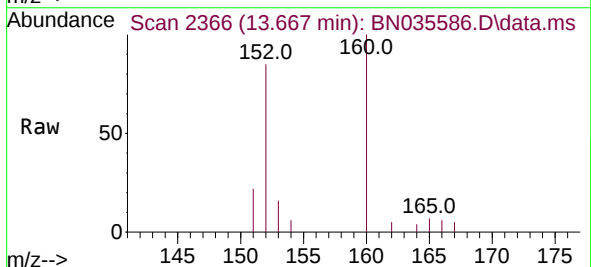
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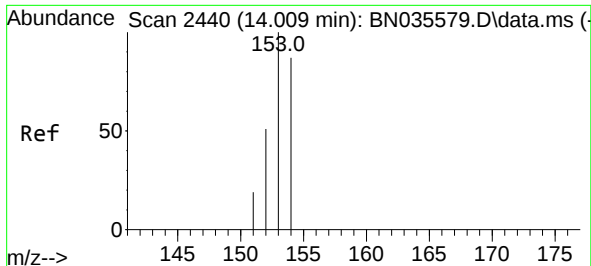
Reviewed By :Yogesh Patel 12/13/2024  
Supervised By :mohammad ahmed 12/13/2024



#10  
Acenaphthylene  
Concen: 0.220 ng/ul  
RT: 13.667 min Scan# 2366  
Delta R.T. 0.005 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54

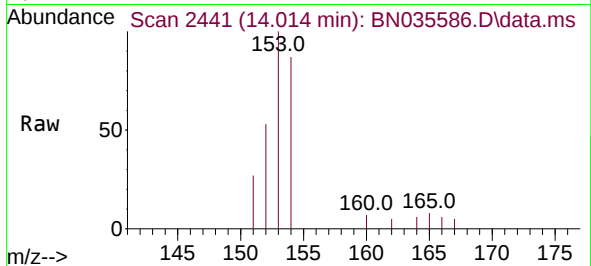
Tgt Ion:152 Resp: 3342  
Ion Ratio Lower Upper  
152 100  
151 25.7 16.4 24.6#  
153 19.2 11.1 16.7#





#11  
Acenaphthene  
Concen: 0.225 ng/ul  
RT: 14.014 min Scan# 2441  
Delta R.T. 0.000 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54

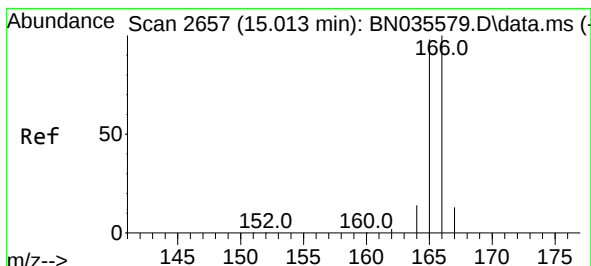
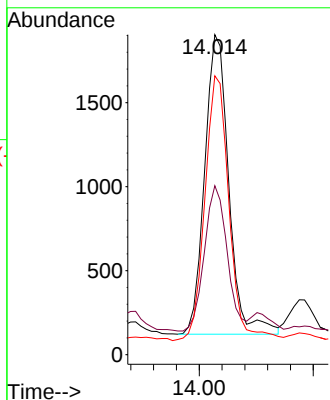
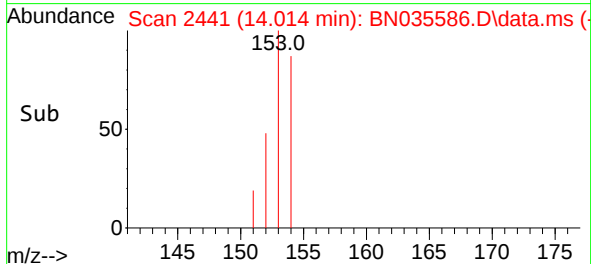
Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2



Tgt Ion:153 Resp: 261  
Ion Ratio Lower Upper  
153 100  
152 52.8 41.4 62.0  
154 87.1 71.2 106.8

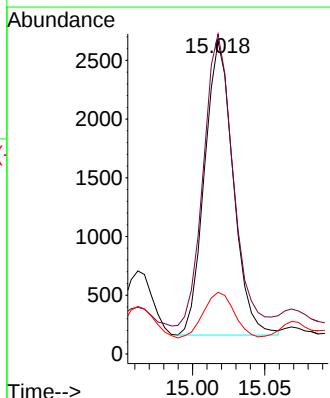
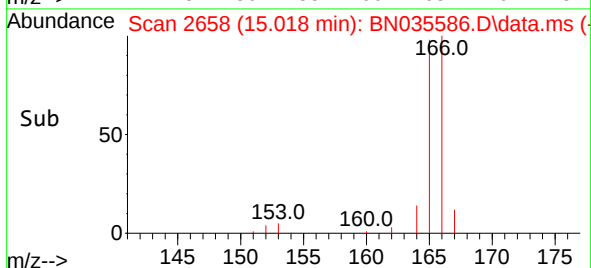
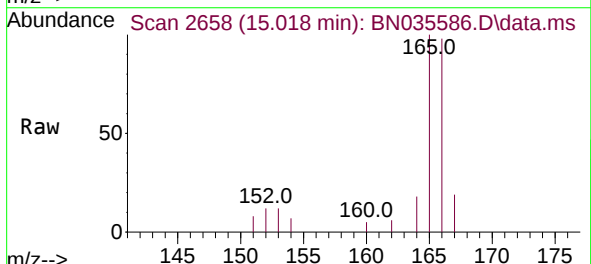
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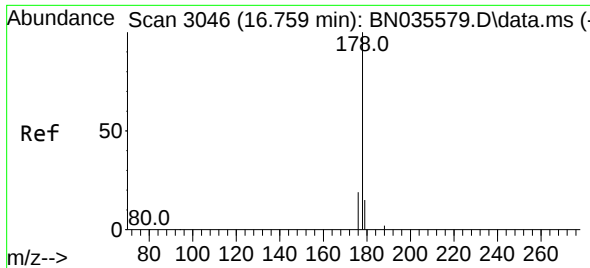
Reviewed By :Yogesh Patel 12/13/2024  
Supervised By :mohammad ahmed 12/13/2024



#12  
Fluorene  
Concen: 0.254 ng/ul  
RT: 15.018 min Scan# 2658  
Delta R.T. 0.000 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54

Tgt Ion:166 Resp: 3463  
Ion Ratio Lower Upper  
166 100  
165 102.4 78.6 118.0  
167 19.7 11.8 17.6#





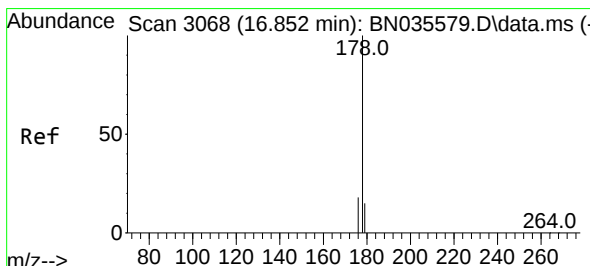
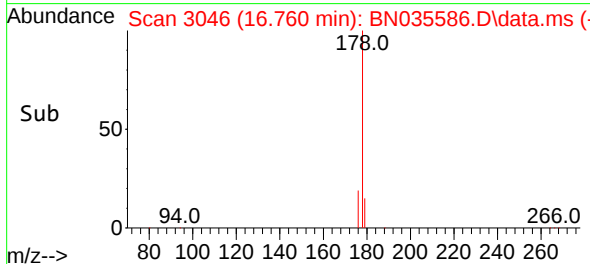
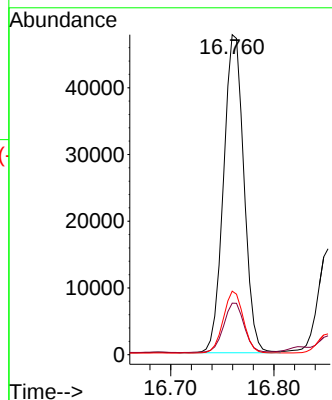
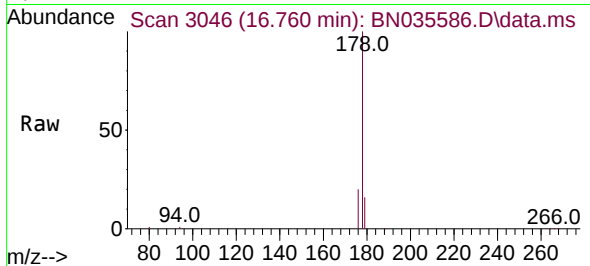
#15  
Phenanthrene  
Concen: 3.304 ng/ul  
RT: 16.760 min Scan# 3046  
Delta R.T. 0.000 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54

Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2

Tgt Ion:178 Resp: 65320  
Ion Ratio Lower Upper  
178 100  
179 16.1 12.9 19.3  
176 19.8 15.6 23.4

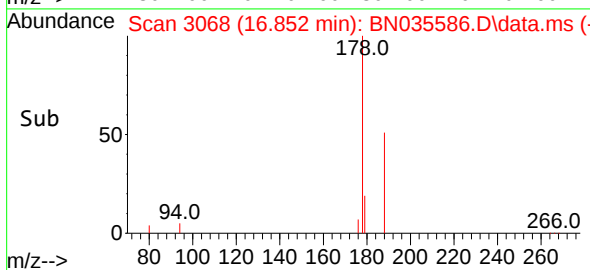
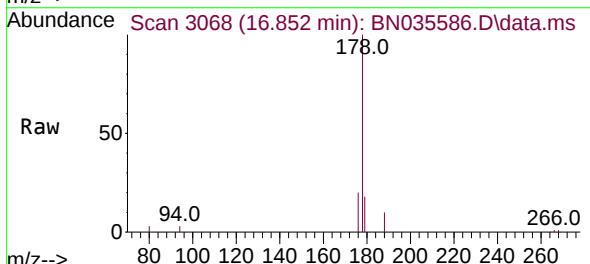
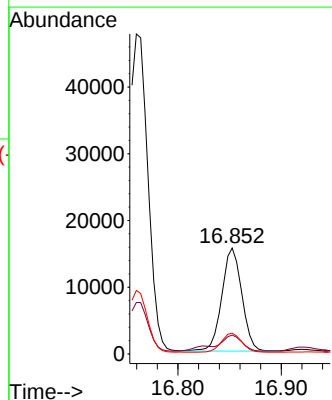
Manual Integrations  
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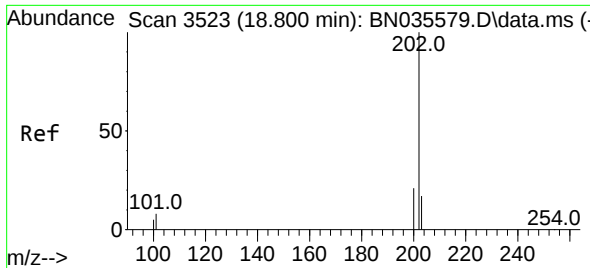
Reviewed By :Yogesh Patel 12/13/2024  
Supervised By :mohammad ahmed 12/13/2024



#16  
Anthracene  
Concen: 1.130 ng/ul  
RT: 16.852 min Scan# 3068  
Delta R.T. 0.004 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54

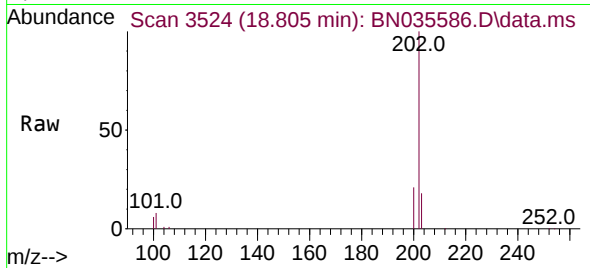
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Ion Ratio Lower Upper  
178 100  
179 17.8 12.9 19.3  
176 19.7 15.4 23.2





#19  
Fluoranthene  
Concen: 4.369 ng/ul  
RT: 18.805 min Scan# 3523  
Delta R.T. 0.005 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54

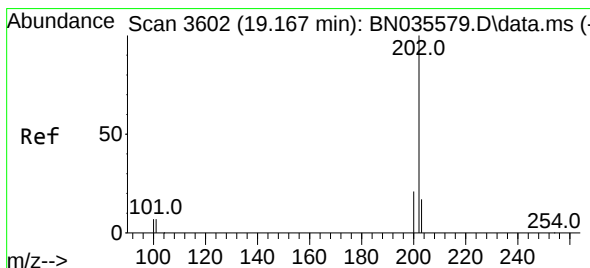
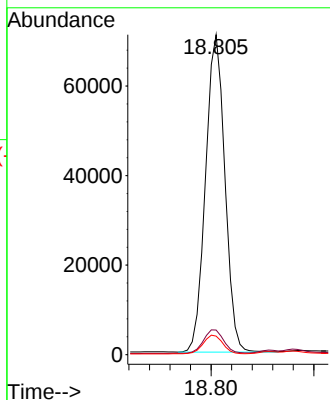
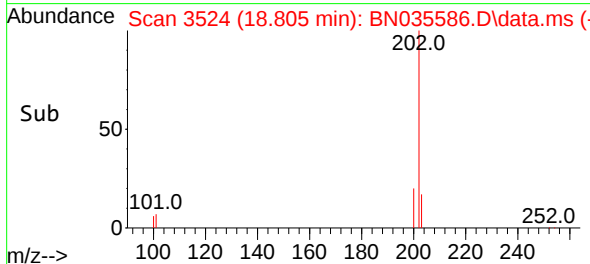
Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2



Tgt Ion:202 Resp: 92509  
Ion Ratio Lower Upper  
202 100  
101 7.7 5.8 8.6  
100 5.8 4.5 6.7

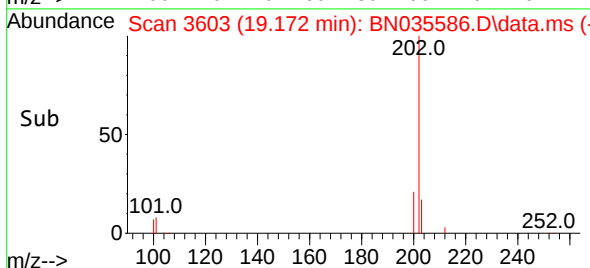
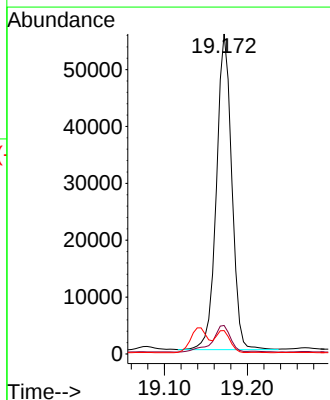
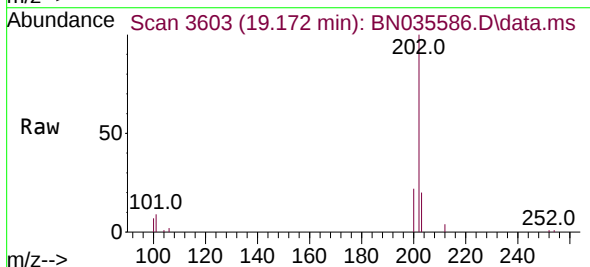
Manual Integrations  
APPROVED

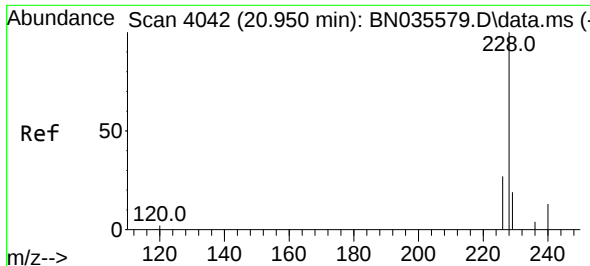
Reviewed By :Yogesh Patel 12/13/2024  
Supervised By :mohammad ahmed 12/13/2024



#20  
Pyrene  
Concen: 3.214 ng/ul  
RT: 19.172 min Scan# 3603  
Delta R.T. 0.005 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54

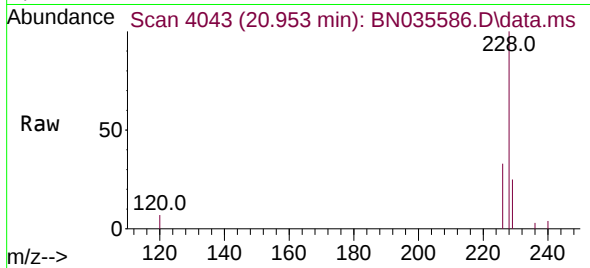
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Ion Ratio Lower Upper  
202 100  
101 8.9 6.2 9.4  
100 7.3 5.1 7.7





#21  
Benzo(a)anthracene  
Concen: 1.847 ng/ul  
RT: 20.953 min Scan# 4042  
Delta R.T. 0.006 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54

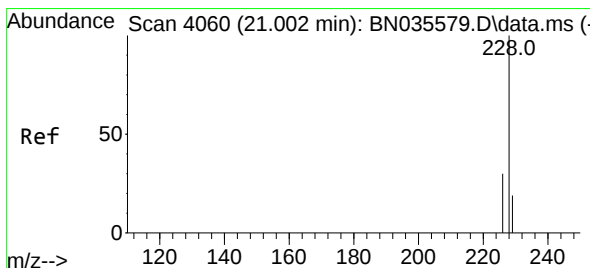
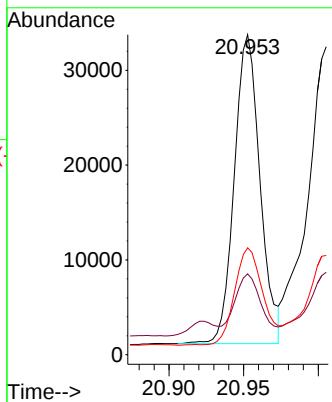
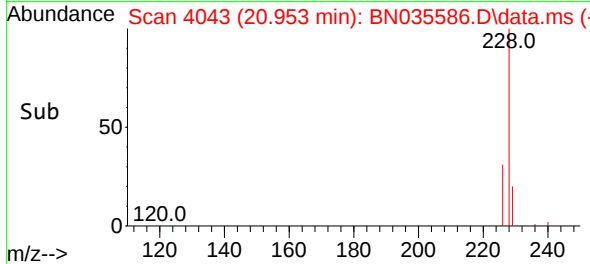
Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2



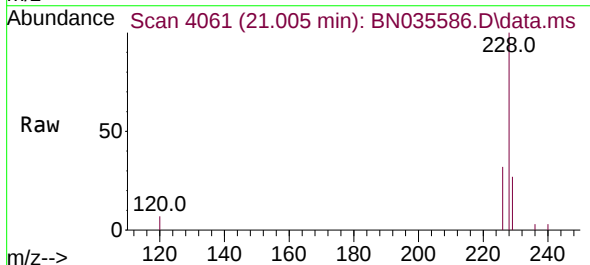
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226 33.4 21.8 32.8

Manual Integrations  
APPROVED

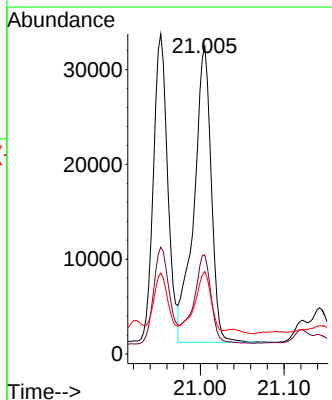
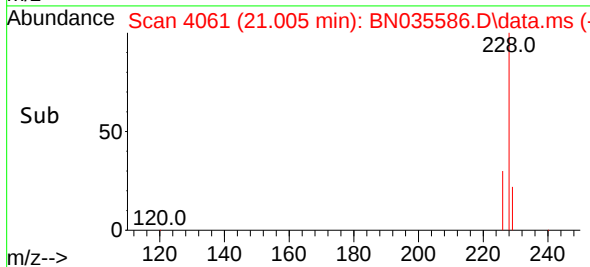
Reviewed By :Yogesh Patel 12/13/2024  
Supervised By :mohammad ahmed 12/13/2024

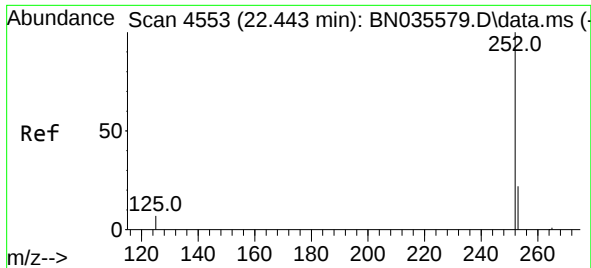


#22  
Chrysene  
Concen: 2.092 ng/ul  
RT: 21.005 min Scan# 4061  
Delta R.T. 0.009 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54



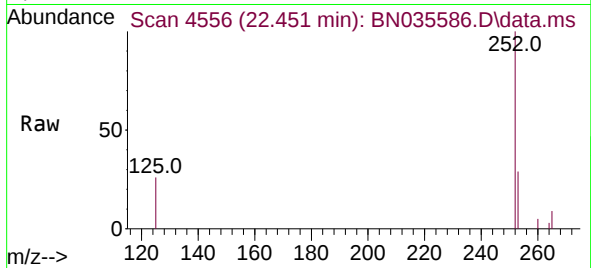
Tgt Ion:228 Resp: 44438  
Ion Ratio Lower Upper  
228 100  
226 32.2 24.7 37.1  
229 26.7 16.0 24.0





#24  
Benzo(b)fluoranthene  
Concen: 2.702 ng/ul m  
RT: 22.451 min Scan# 4556  
Delta R.T. 0.012 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54

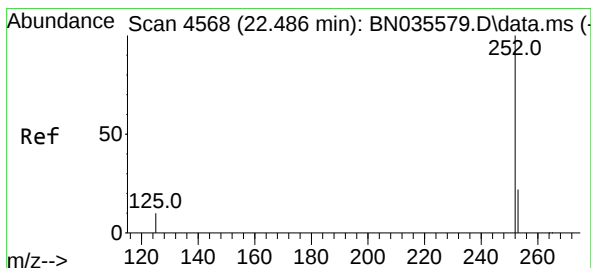
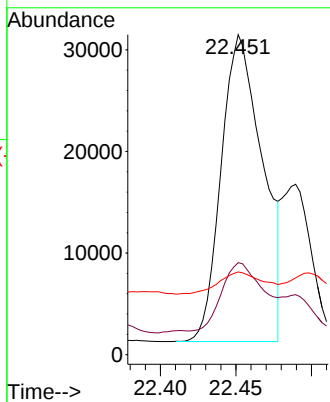
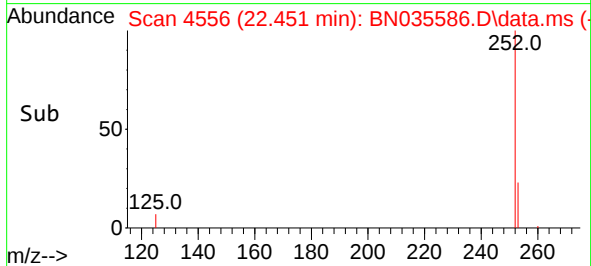
Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2



Tgt Ion:252 Resp: 5768  
Ion Ratio Lower Upper  
252 100  
253 28.7 0.0 54.0  
125 25.8 0.0 19.4

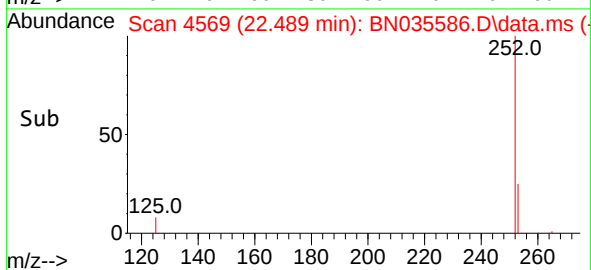
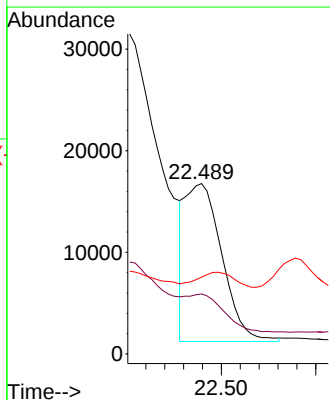
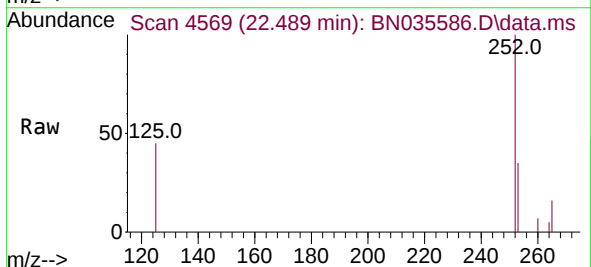
Manual Integrations  
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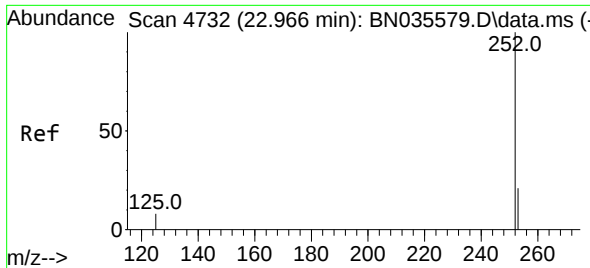
Reviewed By :Yogesh Patel 12/13/2024  
Supervised By :mohammad ahmed 12/13/2024



#25  
Benzo(k)fluoranthene  
Concen: 0.957 ng/ul m  
RT: 22.489 min Scan# 4569  
Delta R.T. 0.009 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54

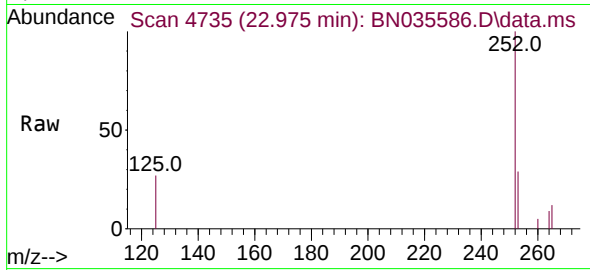
Tgt Ion:252 Resp: 21071  
Ion Ratio Lower Upper  
252 100  
253 35.2 21.8 32.6#  
125 45.1 8.6 12.8#





#26  
Benzo(a)pyrene  
Concen: 2.009 ng/ul m  
RT: 22.975 min Scan# 4735  
Delta R.T. 0.015 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54

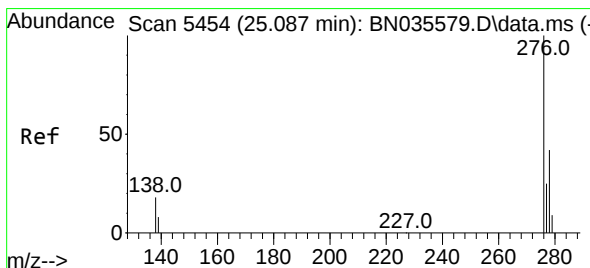
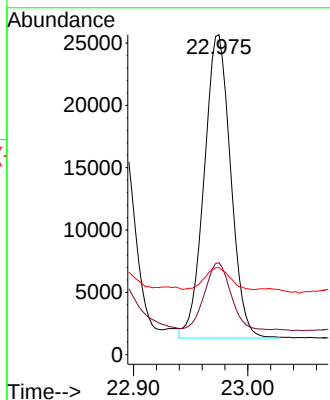
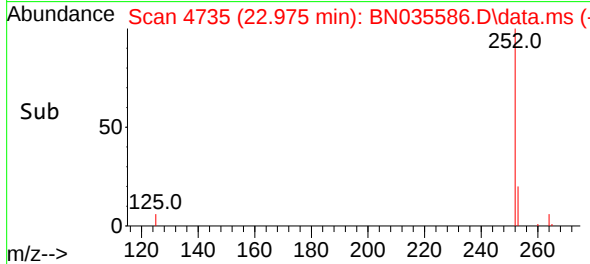
Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2



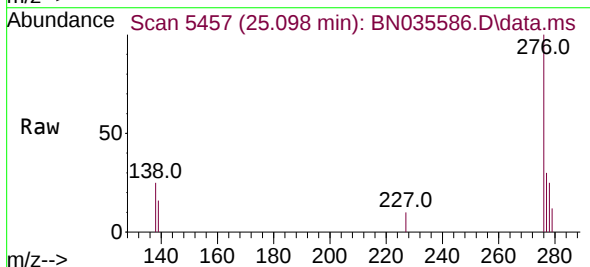
Tgt Ion:252 Resp: 39200  
Ion Ratio Lower Upper  
252 100  
253 28.8 22.9 34.3  
125 27.2 9.4 14.2

Manual Integrations  
APPROVED

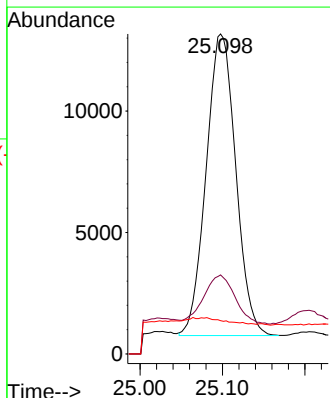
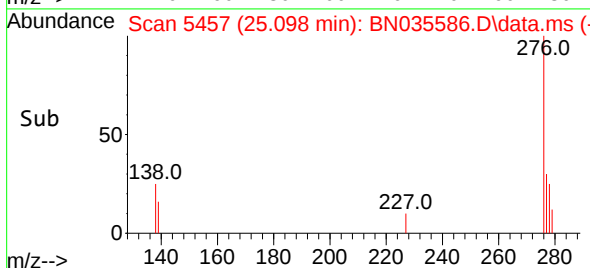
Reviewed By :Yogesh Patel 12/13/2024  
Supervised By :mohammad ahmed 12/13/2024

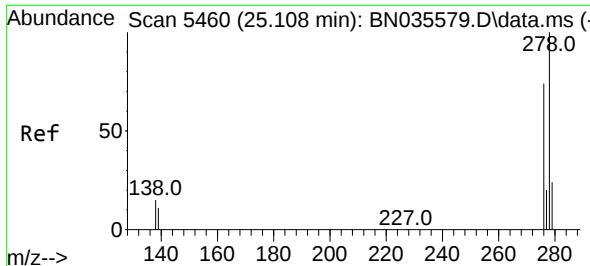


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 1.178 ng/ul m  
RT: 25.098 min Scan# 5457  
Delta R.T. 0.017 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54



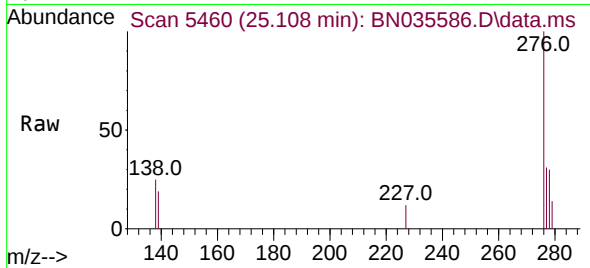
Tgt Ion:276 Resp: 31035  
Ion Ratio Lower Upper  
276 100  
138 0.0 13.8 20.8#  
227 0.0 0.2 0.4#





#28  
Dibenzo(a,h)anthracene  
Concen: 0.409 ng/ul m  
RT: 25.108 min Scan# 5460  
Delta R.T. 0.007 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54

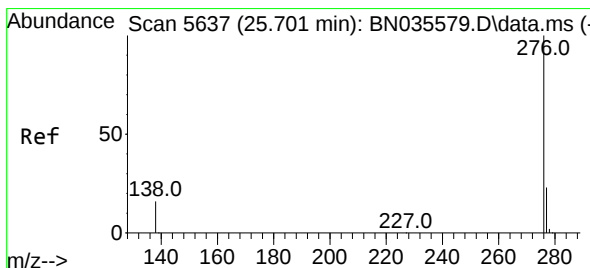
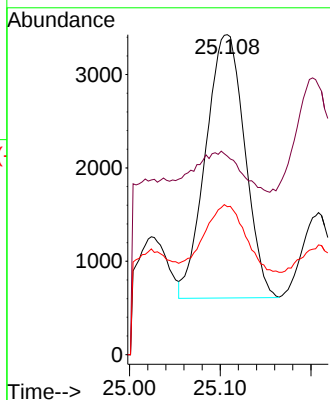
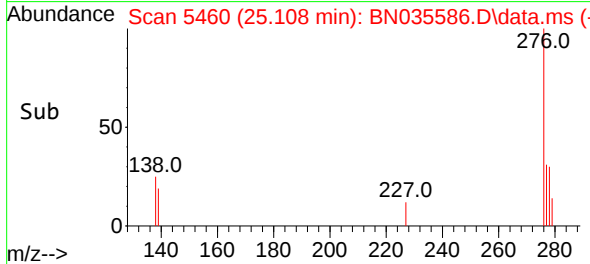
Instrument :  
BNA\_N  
ClientSampleId :  
E28Q2



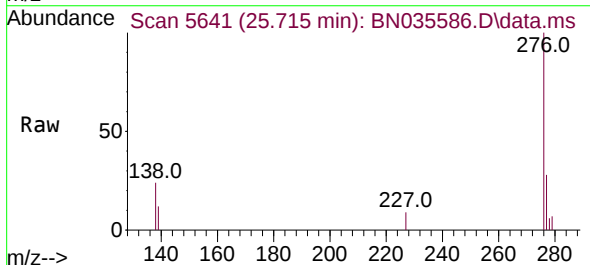
Tgt Ion:278 Resp: 8454  
Ion Ratio Lower Upper  
278 100  
139 62.0 10.7 16.1  
279 46.3 22.8 34.2

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/13/2024  
Supervised By :mohammad ahmed 12/13/2024



#29  
Benzo(g,h,i)perylene  
Concen: 1.676 ng/ul m  
RT: 25.715 min Scan# 5641  
Delta R.T. 0.024 min  
Lab File: BN035586.D  
Acq: 12 Dec 2024 15:54



Tgt Ion:276 Resp: 34820  
Ion Ratio Lower Upper  
276 100  
138 23.9 13.0 19.6  
277 28.0 20.5 30.7

