

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN013125\  
 Data File : BN036174.D  
 Acq On : 31 Jan 2025 18:51  
 Operator : RC/JU  
 Sample : Q1197-02MS  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 E2964MS

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025  
 Supervised By :mohammad ahmed 02/04/2025

Quant Time: Feb 03 08:51:44 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN012125.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 21 23:52:22 2025  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.795  | 152  | 2367     | 0.400  | ng/ul  | #-0.02   |
| 4) Naphthalene-d8           | 10.583 | 136  | 5983m    | 0.400  | ng/ul  | -0.02    |
| 9) Acenaphthene-d10         | 14.451 | 164  | 22023m   | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.184 | 188  | 8866     | 0.400  | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.371 | 240  | 13956    | 0.400  | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.674 | 264  | 9730     | 0.400  | ng/ul  | # 0.00   |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.259  | 96   | 660      | 0.255  | ng/ul  | -0.02    |
| 6) 2-Methylnaphthalene-d10  | 12.184 | 152  | 4529     | 0.600  | ng/ul  | -0.02    |
| 18) Fluoranthene-d10        | 19.216 | 212  | 11520    | 0.300  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane              | 3.293  | 88   | 2093     | 0.757  | ng/ul# | 1        |
| 5) Naphthalene              | 10.638 | 128  | 249972   | 15.166 | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 12.261 | 142  | 35803m   | 3.497  | ng/ul  |          |
| 8) 1-Methylnaphthalene      | 12.481 | 142  | 29864m   | 2.874  | ng/ul  |          |
| 10) Acenaphthylene          | 14.159 | 152  | 11358    | 0.109  | ng/ul# | 59       |
| 11) Acenaphthene            | 14.502 | 153  | 19584    | 0.256  | ng/ul  | 95       |
| 12) Fluorene                | 15.487 | 166  | 14424    | 0.171  | ng/ul# | 88       |
| 14) Pentachlorophenol       | 16.842 | 266  | 4661     | 1.501  | ng/ul  | 99       |
| 15) Phenanthrene            | 17.226 | 178  | 34742    | 1.338  | ng/ul# | 74       |
| 16) Anthracene              | 17.310 | 178  | 29919    | 1.240  | ng/ul# | 50       |
| 19) Fluoranthene            | 19.244 | 202  | 20937    | 0.395  | ng/ul# | 79       |
| 20) Pyrene                  | 19.606 | 202  | 21692    | 0.392  | ng/ul# | 79       |
| 21) Benzo(a)anthracene      | 21.356 | 228  | 14655    | 0.294  | ng/ul# | 65       |
| 22) Chrysene                | 21.409 | 228  | 15798    | 0.310  | ng/ul# | 63       |
| 24) Benzo(b)fluoranthene    | 22.978 | 252  | 14227    | 0.438  | ng/ul  | 75       |
| 25) Benzo(k)fluoranthene    | 23.025 | 252  | 13291    | 0.389  | ng/ul# | 73       |
| 26) Benzo(a)pyrene          | 23.569 | 252  | 12242    | 0.417  | ng/ul# | 76       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.014 | 276  | 13836    | 0.357  | ng/ul  | 99       |
| 28) Dibenzo(a,h)anthracene  | 26.031 | 278  | 11006    | 0.368  | ng/ul# | 83       |
| 29) Benzo(g,h,i)perylene    | 26.728 | 276  | 10336    | 0.343  | ng/ul  | 93       |
| -----                       |        |      |          |        |        |          |

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

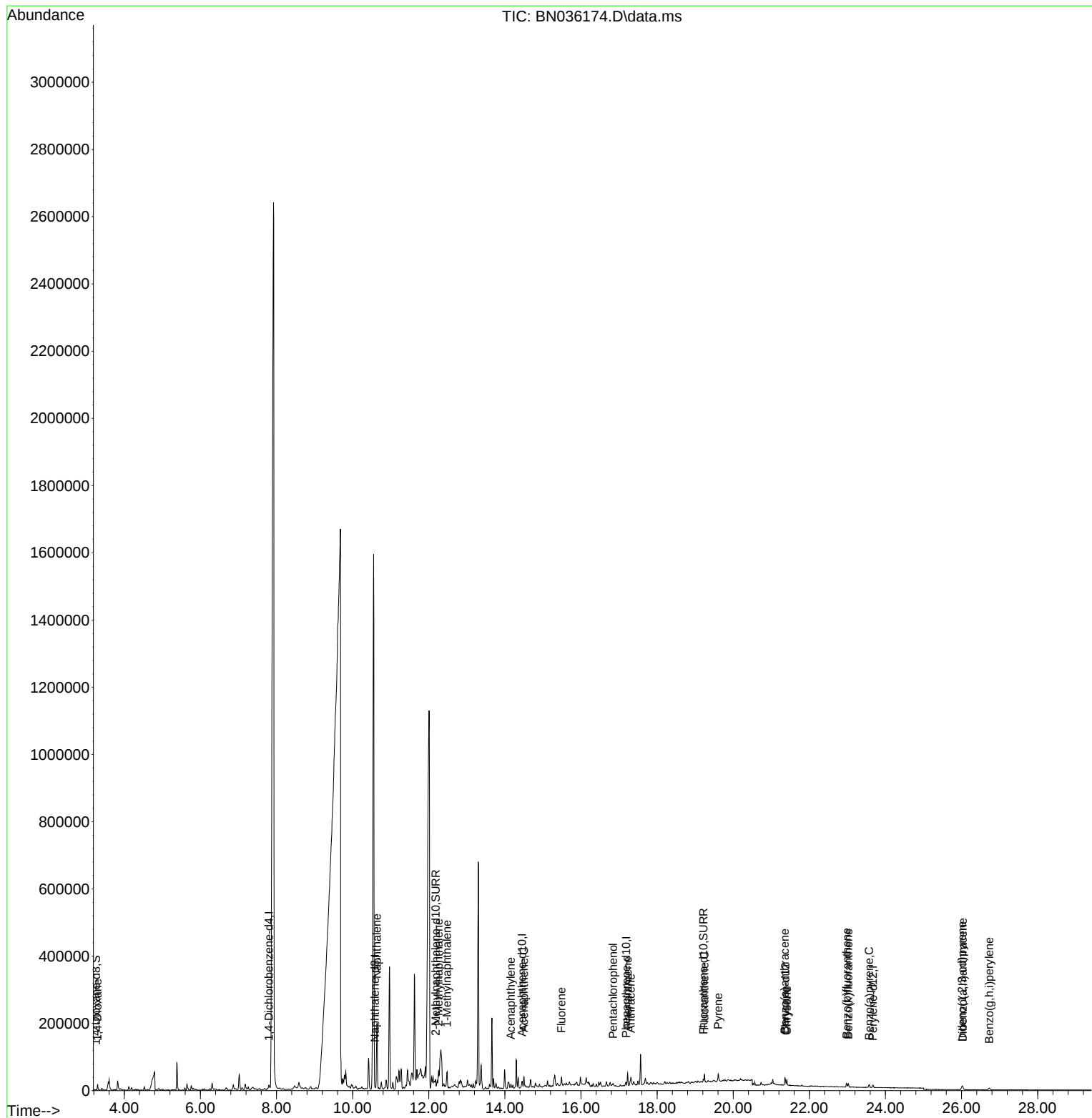
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN013125\  
Data File : BN036174.D  
Acq On : 31 Jan 2025 18:51  
Operator : RC/JU  
Sample : Q1197-02MS  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

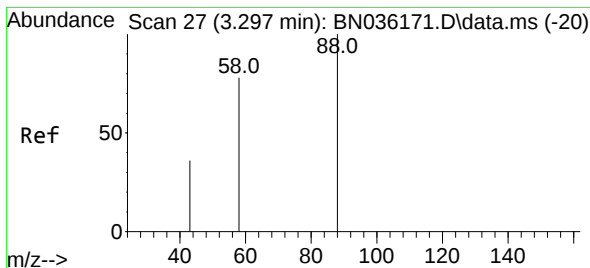
Instrument :  
BNA\_N  
ClientSampleId :  
E2964MS

Manual Integrations  
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Supervised By :mohammad ahmed 02/04/2025

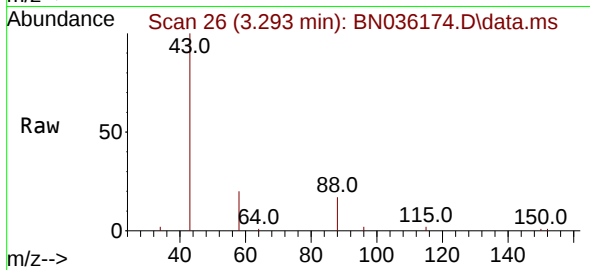
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN012125.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jan 21 23:52:22 2025  
Response via : Initial Calibration





#2  
1,4-Dioxane  
Concen: 0.757 ng/ul  
RT: 3.293 min Scan# 209  
Delta R.T. -0.021 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51

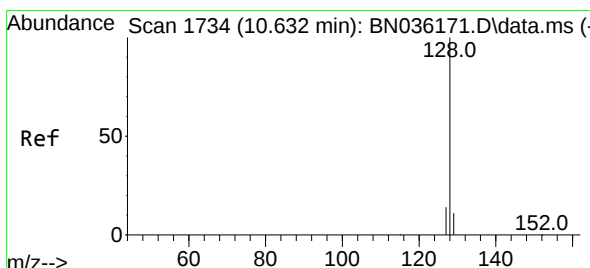
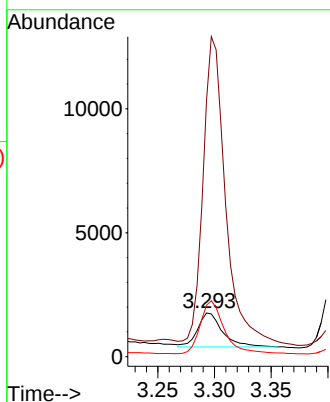
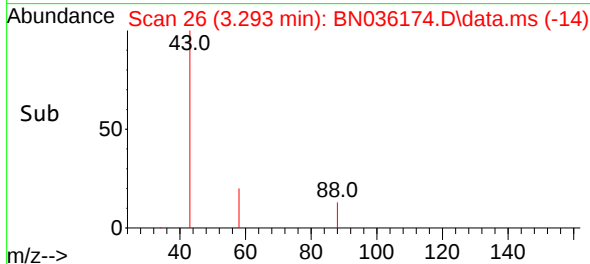
Instrument :  
BNA\_N  
ClientSampleId :  
E2964MS



Tgt Ion: 88 Resp: 209  
Ion Ratio Lower Upper  
88 100  
43 585.2 40.7 61.1  
58 117.5 55.2 82.8

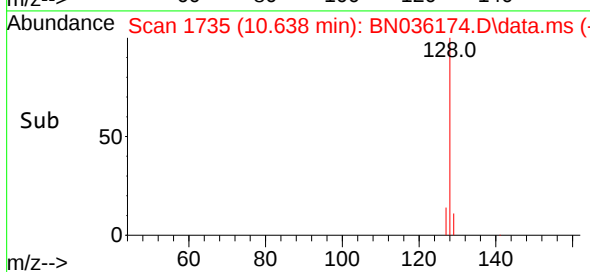
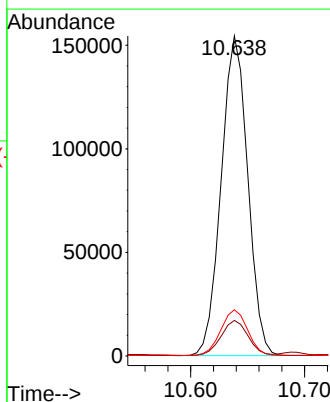
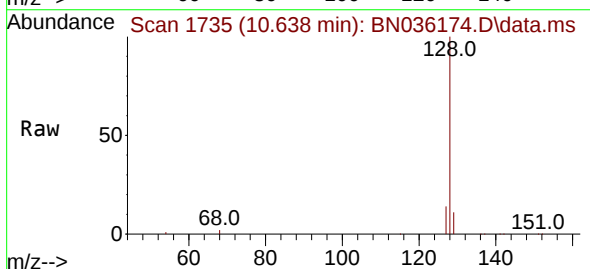
Manual Integrations  
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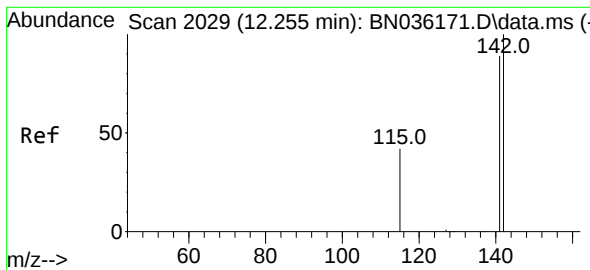
Reviewed By :Jagrut Upadhyay 02/03/2025  
Supervised By :mohammad ahmed 02/04/2025



#5  
Naphthalene  
Concen: 15.166 ng/ul  
RT: 10.638 min Scan# 1735  
Delta R.T. -0.016 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51

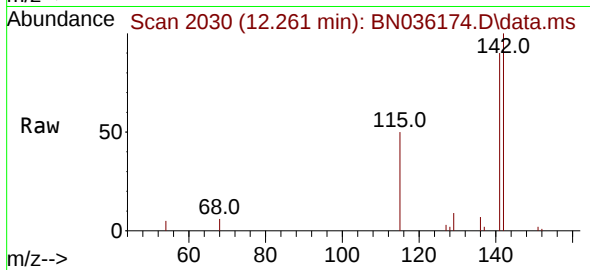
Tgt Ion:128 Resp: 249972  
Ion Ratio Lower Upper  
128 100  
129 11.1 9.6 14.4  
127 14.5 12.0 18.0





#7  
2-Methylnaphthalene  
Concen: 3.497 ng/ul m  
RT: 12.261 min Scan# 2029  
Delta R.T. -0.011 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51

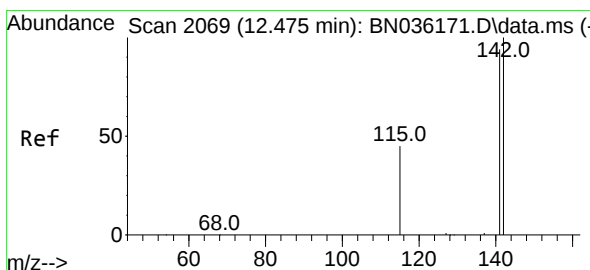
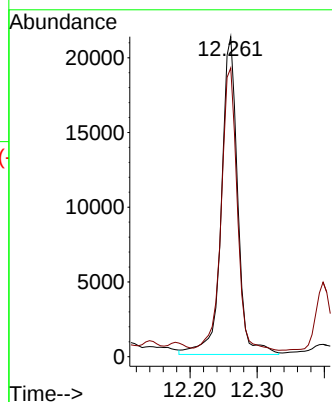
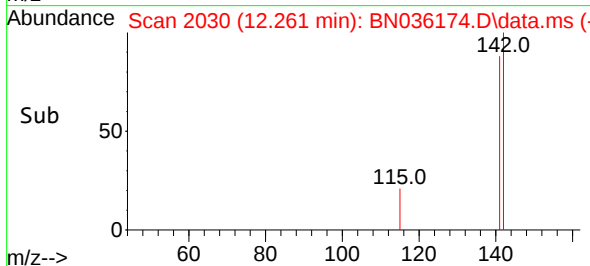
Instrument :  
BNA\_N  
ClientSampleId :  
E2964MS



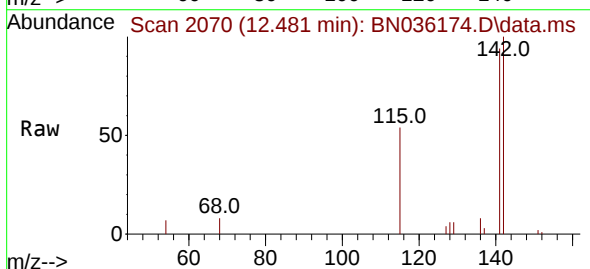
Tgt Ion:142 Resp: 3580  
Ion Ratio Lower Upper  
142 100  
141 83.8 71.9 107.9

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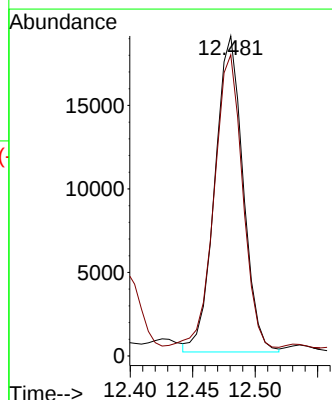
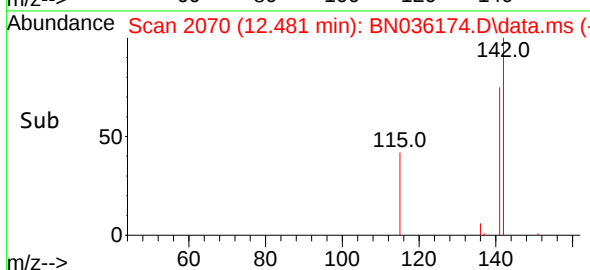
Reviewed By :Jagrut Upadhyay 02/03/2025  
Supervised By :mohammad ahmed 02/04/2025

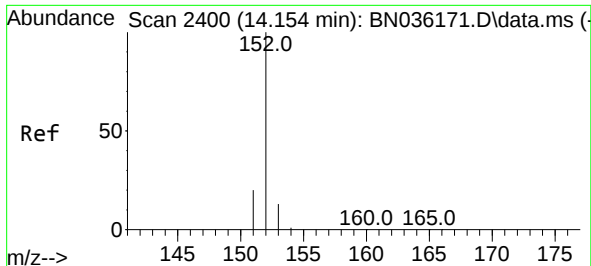


#8  
1-Methylnaphthalene  
Concen: 2.874 ng/ul m  
RT: 12.481 min Scan# 2070  
Delta R.T. -0.011 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51



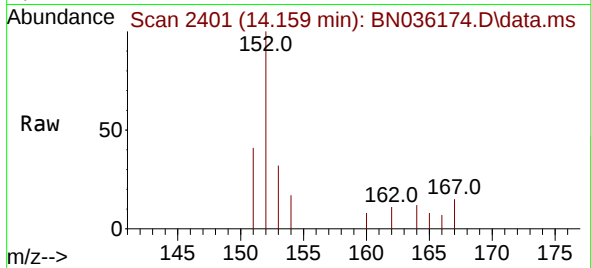
Tgt Ion:142 Resp: 29864  
Ion Ratio Lower Upper  
142 100  
141 91.3 75.2 112.8





#10  
Acenaphthylene  
Concen: 0.109 ng/ul  
RT: 14.159 min Scan# 2401  
Delta R.T. -0.008 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51

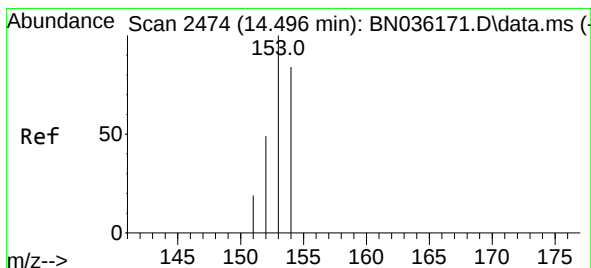
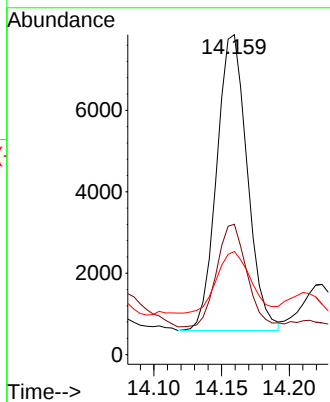
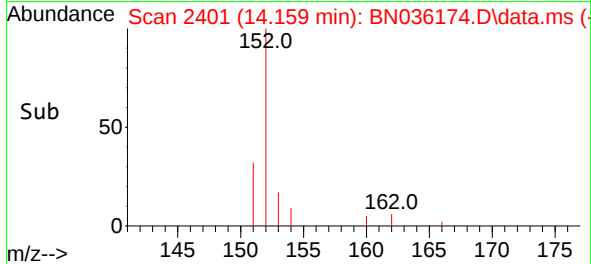
Instrument :  
BNA\_N  
ClientSampleId :  
E2964MS



Tgt Ion:152 Resp: 11358  
Ion Ratio Lower Upper  
152 100  
151 40.7 17.4 26.2  
153 32.3 11.9 17.9

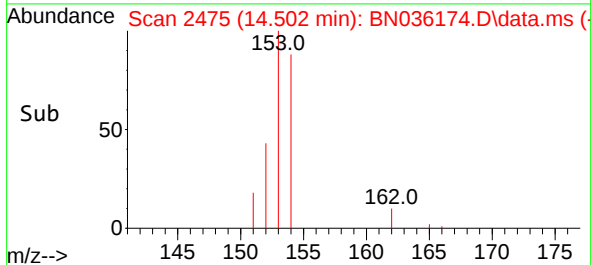
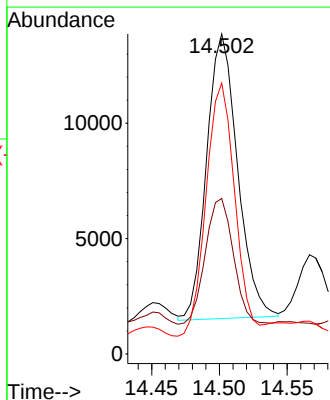
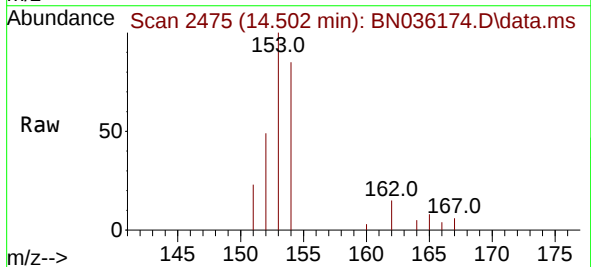
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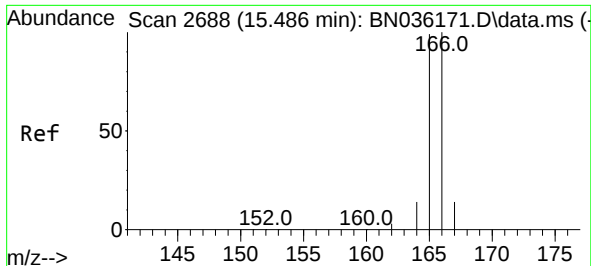
Reviewed By :Jagrut Upadhyay 02/03/2025  
Supervised By :mohammad ahmed 02/04/2025



#11  
Acenaphthene  
Concen: 0.256 ng/ul  
RT: 14.502 min Scan# 2475  
Delta R.T. -0.013 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51

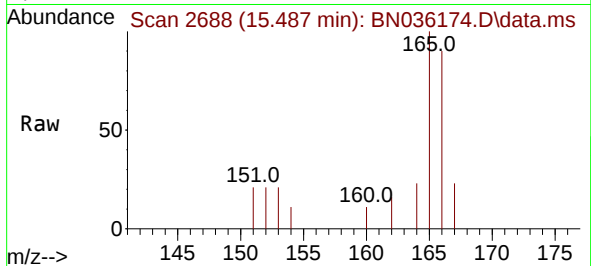
Tgt Ion:153 Resp: 19584  
Ion Ratio Lower Upper  
153 100  
152 48.6 43.2 64.8  
154 84.7 70.5 105.7





#12  
Fluorene  
Concen: 0.171 ng/ul  
RT: 15.487 min Scan# 2688  
Delta R.T. -0.013 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51

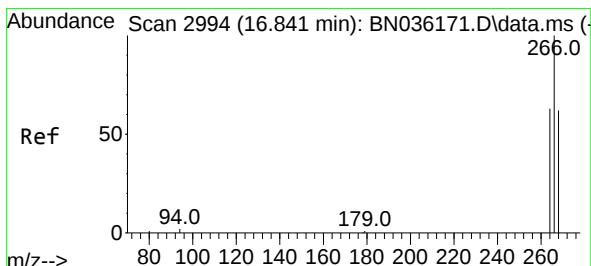
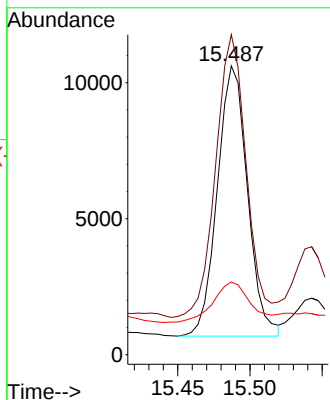
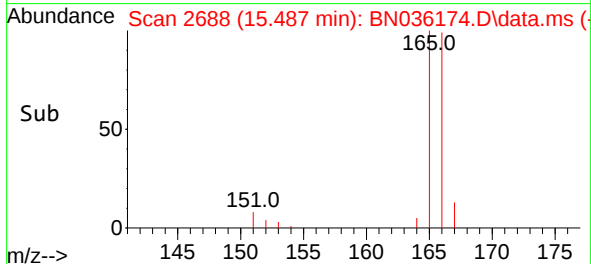
Instrument :  
BNA\_N  
ClientSampleId :  
E2964MS



Tgt Ion:166 Resp: 14424  
Ion Ratio Lower Upper  
166 100  
165 110.8 80.3 120.5  
167 25.1 12.3 18.5

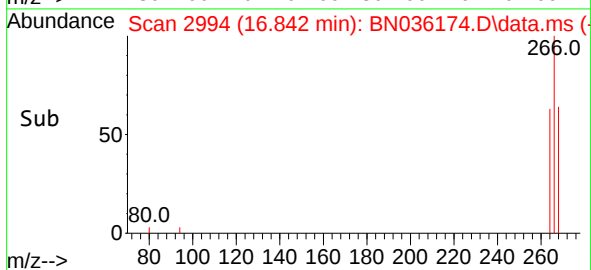
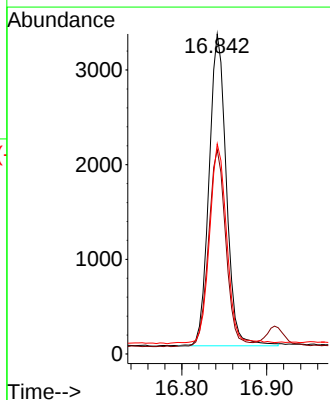
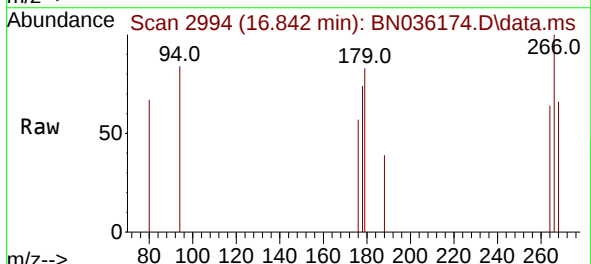
Manual Integrations  
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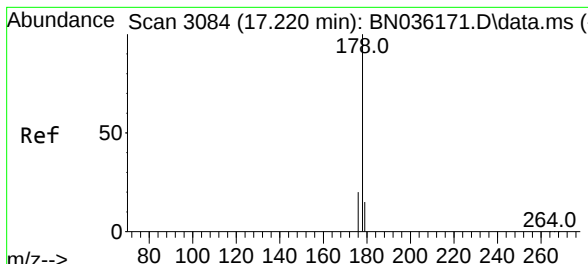
Reviewed By :Jagrut Upadhyay 02/03/2025  
Supervised By :mohammad ahmed 02/04/2025



#14  
Pentachlorophenol  
Concen: 1.501 ng/ul  
RT: 16.842 min Scan# 2994  
Delta R.T. 0.001 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51

Tgt Ion:266 Resp: 4661  
Ion Ratio Lower Upper  
266 100  
264 63.4 50.6 75.8  
268 64.1 50.6 75.8



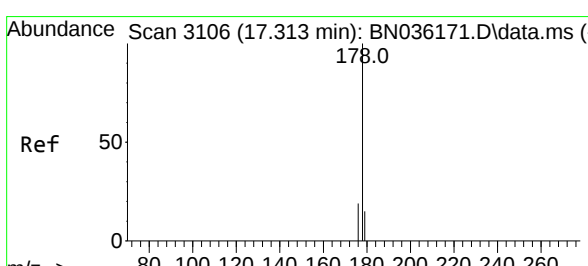
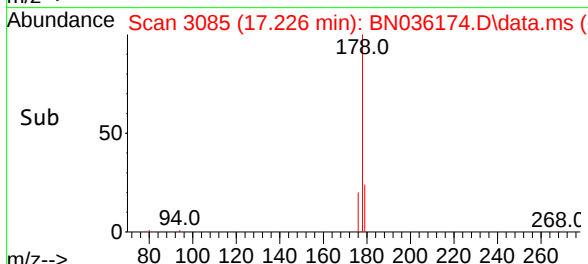
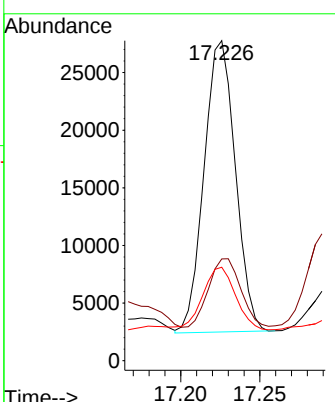
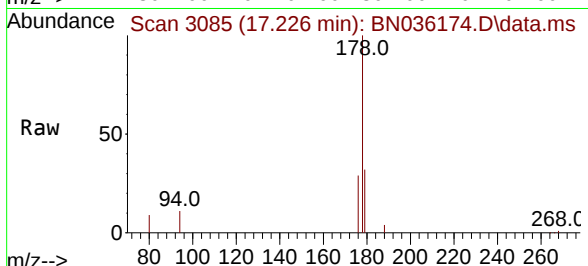


#15  
 Phenanthrene  
 Concen: 1.338 ng/ul  
 RT: 17.226 min Scan# 3084  
 Delta R.T. -0.008 min  
 Lab File: BN036174.D  
 Acq: 31 Jan 2025 18:51

Instrument : BNA\_N  
 ClientSampleId : E2964MS

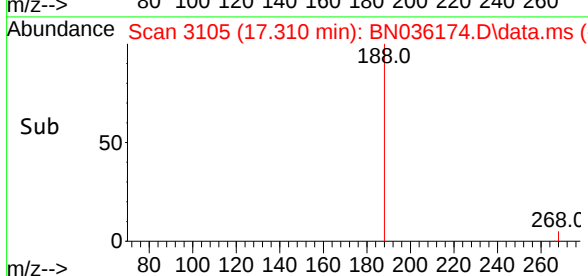
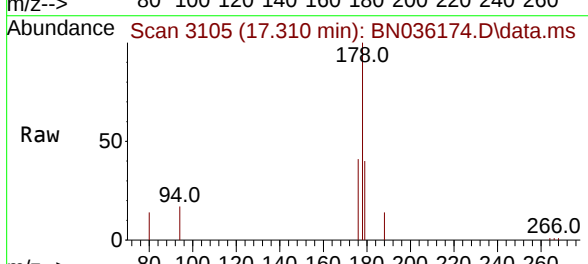
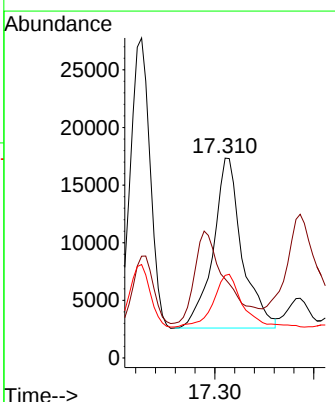
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|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 3474 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 31.8  | 13.2  | 19.8 |
| 176       | 29.2  | 16.8  | 25.2 |

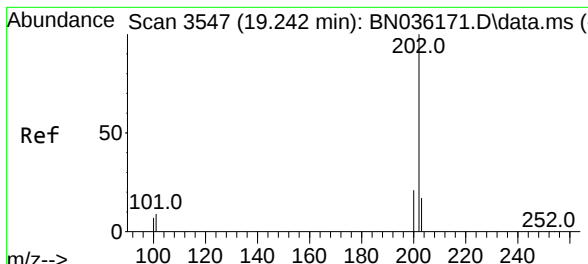
Manual Integrations  
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 Reviewed By :Jagrut Upadhyay 02/03/2025  
 Supervised By :mohammad ahmed 02/04/2025



#16  
 Anthracene  
 Concen: 1.240 ng/ul  
 RT: 17.310 min Scan# 3105  
 Delta R.T. -0.012 min  
 Lab File: BN036174.D  
 Acq: 31 Jan 2025 18:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 29919 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 39.6  | 13.0  | 19.4  |
| 176       | 41.3  | 15.9  | 23.9  |





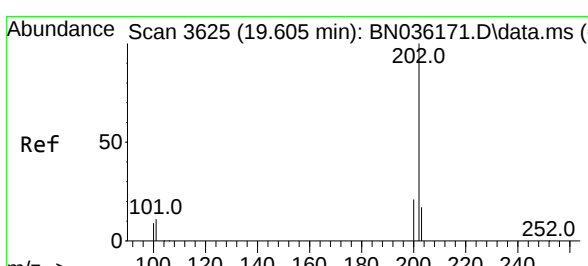
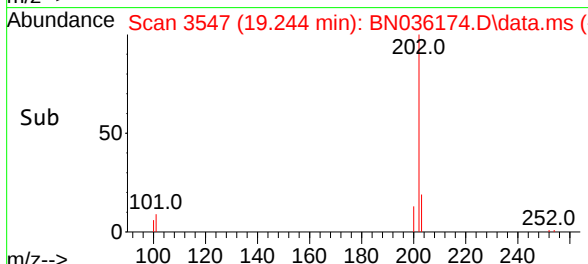
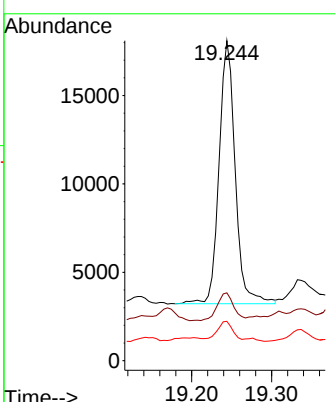
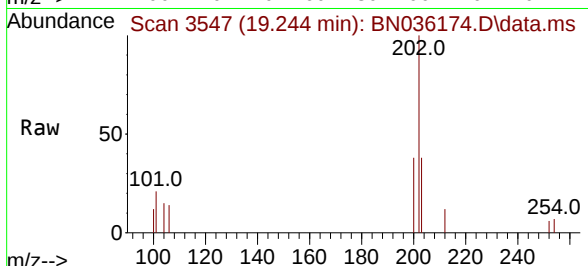
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 Fluoranthene  
 Concen: 0.395 ng/u1  
 RT: 19.244 min Scan# 3547  
 Delta R.T. -0.003 min  
 Lab File: BN036174.D  
 Acq: 31 Jan 2025 18:51

Instrument : BNA\_N  
 ClientSampleId : E2964MS

Tgt Ion:202 Resp: 20937

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 21.2  | 8.4   | 12.6  |
| 100 | 12.3  | 6.5   | 9.7   |

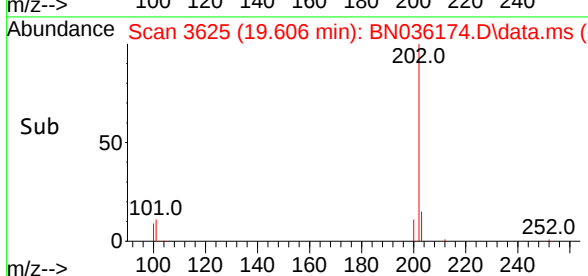
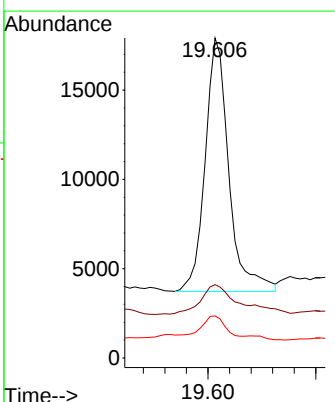
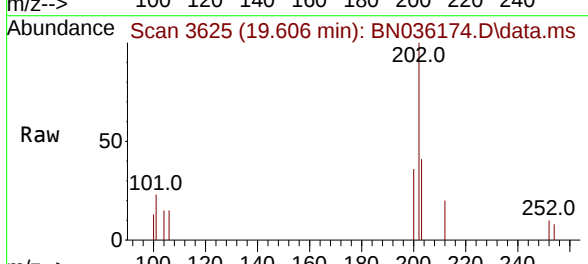
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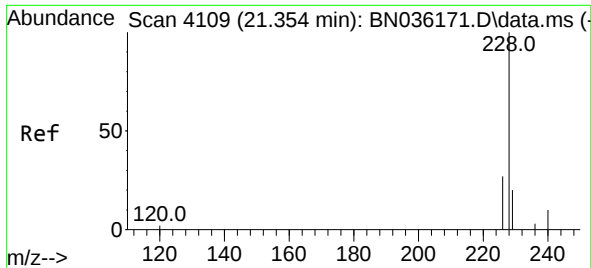


#20  
 Pyrene  
 Concen: 0.392 ng/u1  
 RT: 19.606 min Scan# 3625  
 Delta R.T. -0.003 min  
 Lab File: BN036174.D  
 Acq: 31 Jan 2025 18:51

Tgt Ion:202 Resp: 21692

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 22.9  | 9.3   | 13.9# |
| 100 | 13.1  | 7.5   | 11.3# |





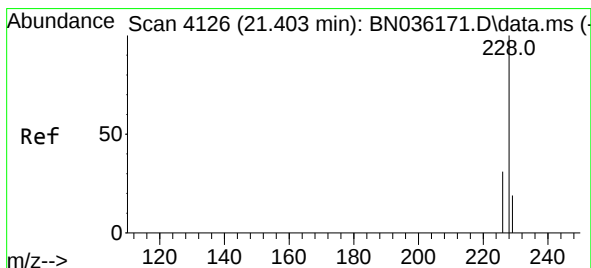
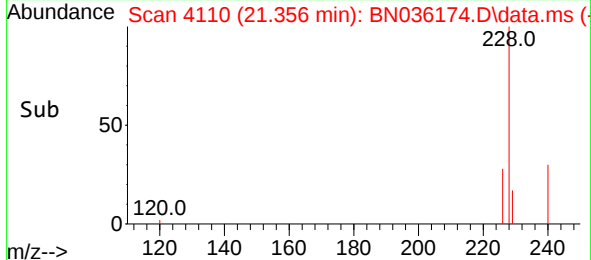
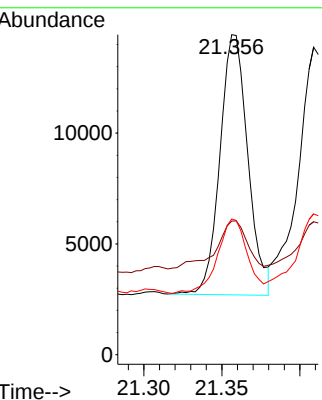
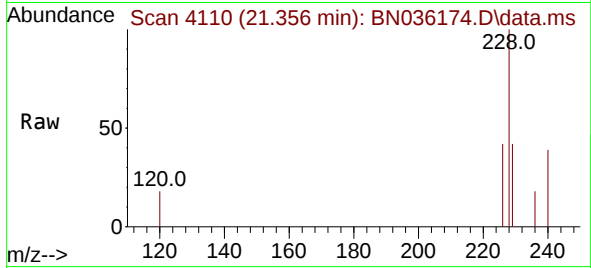
#21  
Benzo(a)anthracene  
Concen: 0.294 ng/ul  
RT: 21.356 min Scan# 4110  
Delta R.T. 0.003 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51

Instrument :  
BNA\_N  
ClientSampleId :  
E2964MS

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 1465 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 229       | 41.8  | 15.9  | 23.9 |
| 226       | 42.4  | 22.8  | 34.2 |

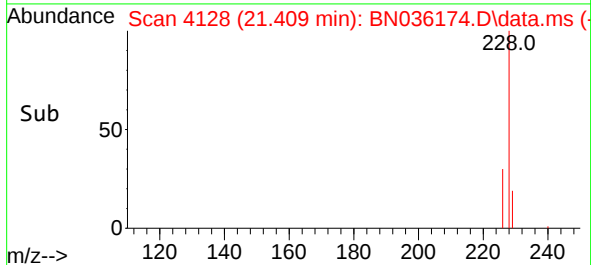
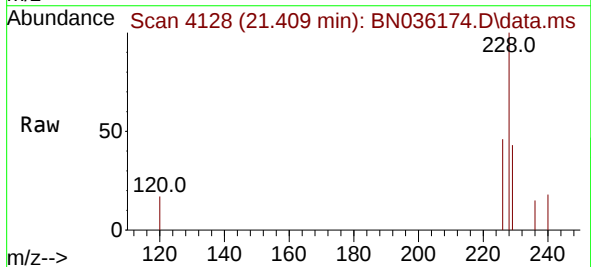
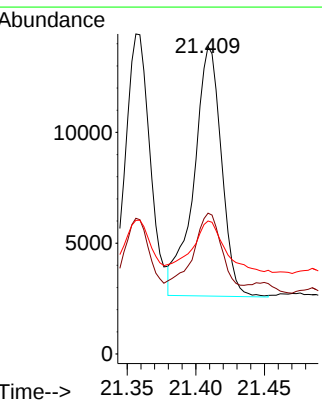
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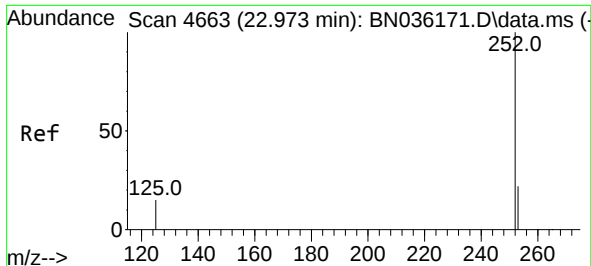
Reviewed By :Jagrut Upadhyay 02/03/2025  
Supervised By :mohammad ahmed 02/04/2025



#22  
Chrysene  
Concen: 0.310 ng/ul  
RT: 21.409 min Scan# 4128  
Delta R.T. 0.003 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51

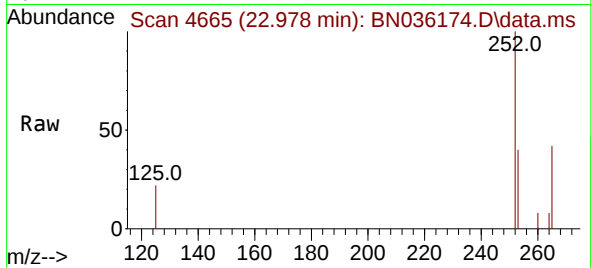
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 15798 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 45.8  | 24.4  | 36.6  |
| 229       | 43.3  | 15.9  | 23.9  |





#24  
Benzo(b)fluoranthene  
Concen: 0.438 ng/ul  
RT: 22.978 min Scan# 4665  
Delta R.T. 0.005 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51

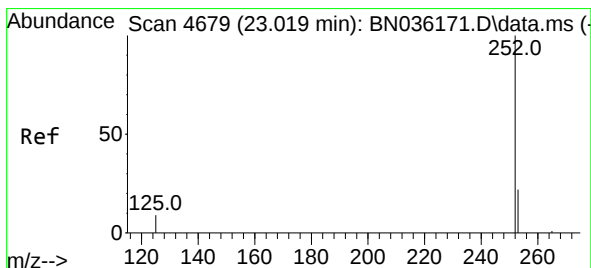
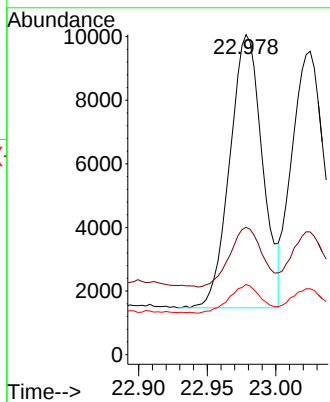
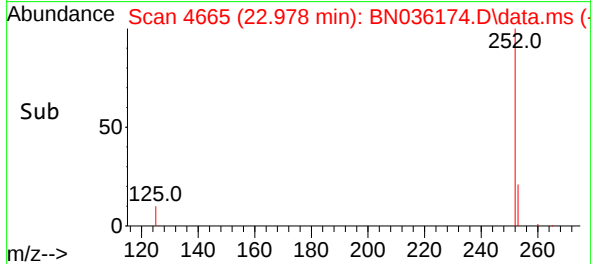
Instrument :  
BNA\_N  
ClientSampleId :  
E2964MS



Tgt Ion:252 Resp: 14227  
Ion Ratio Lower Upper  
252 100  
253 39.8 0.0 51.2  
125 21.9 0.0 27.8

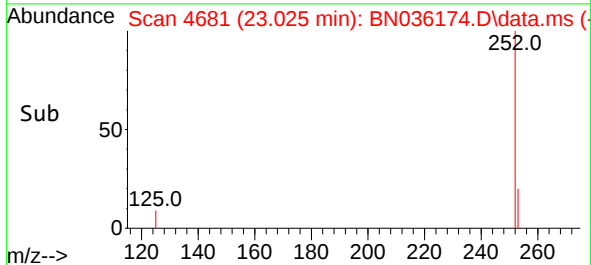
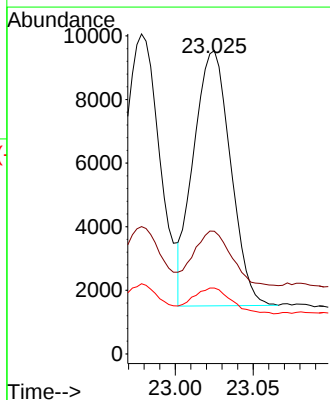
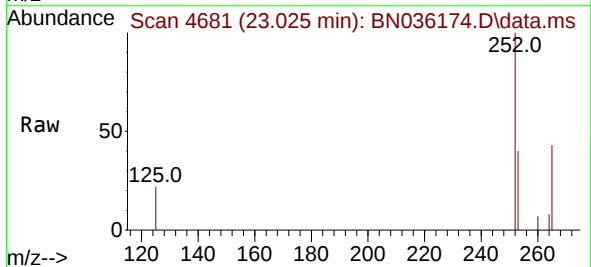
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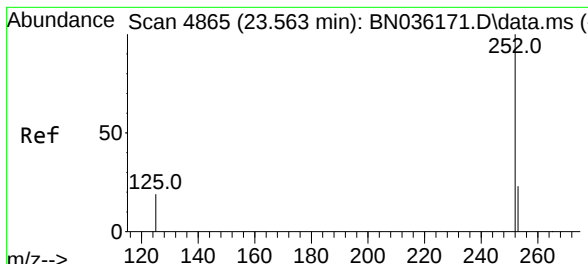
Reviewed By :Jagrut Upadhyay 02/03/2025  
Supervised By :mohammad ahmed 02/04/2025



#25  
Benzo(k)fluoranthene  
Concen: 0.389 ng/ul  
RT: 23.025 min Scan# 4681  
Delta R.T. 0.005 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51

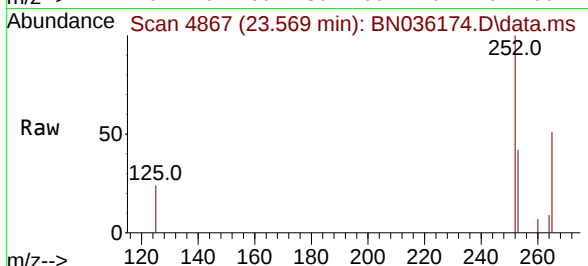
Tgt Ion:252 Resp: 13291  
Ion Ratio Lower Upper  
252 100  
253 40.4 20.2 30.4#  
125 21.8 10.6 16.0#





#26  
Benzo(a)pyrene  
Concen: 0.417 ng/ul  
RT: 23.569 min Scan# 4865  
Delta R.T. 0.005 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51

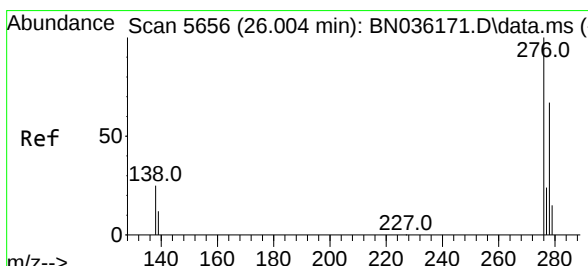
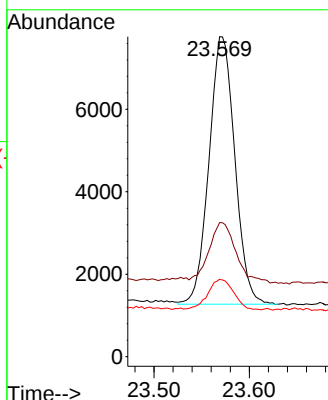
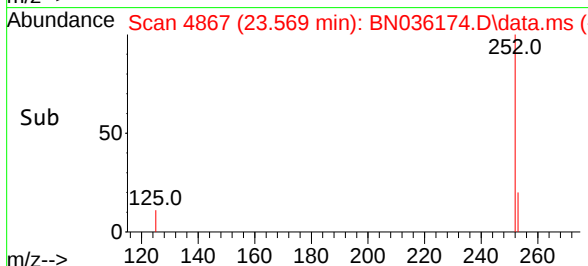
Instrument :  
BNA\_N  
ClientSampleId :  
E2964MS



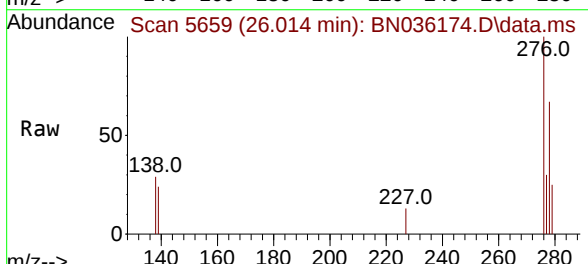
Tgt Ion:252 Resp: 1224  
Ion Ratio Lower Upper  
252 100  
253 41.9 22.2 33.4  
125 24.2 13.1 19.7

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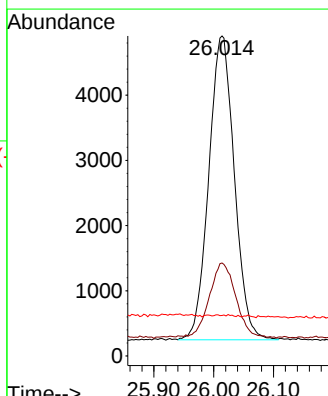
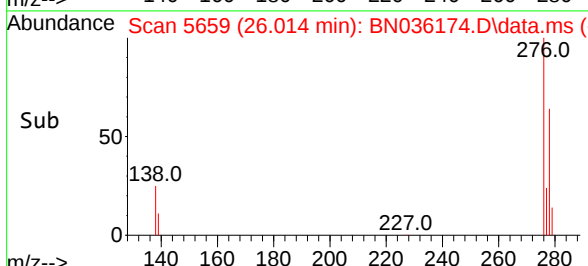
Reviewed By :Jagrut Upadhyay 02/03/2025  
Supervised By :mohammad ahmed 02/04/2025

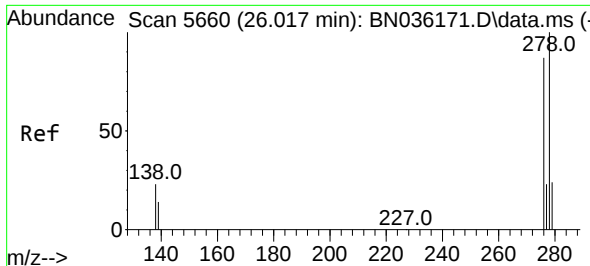


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.357 ng/ul  
RT: 26.014 min Scan# 5659  
Delta R.T. 0.010 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51



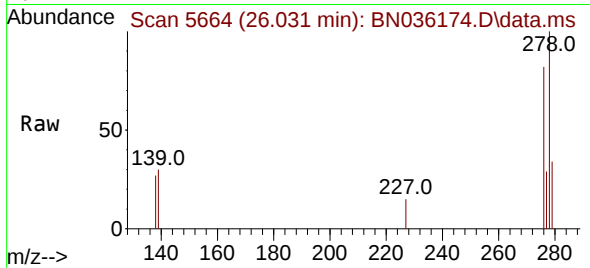
Tgt Ion:276 Resp: 13836  
Ion Ratio Lower Upper  
276 100  
138 26.0 20.2 30.4  
227 0.1 0.1 0.1





#28  
Dibenzo(a,h)anthracene  
Concen: 0.368 ng/ul  
RT: 26.031 min Scan# 5664  
Delta R.T. 0.010 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51

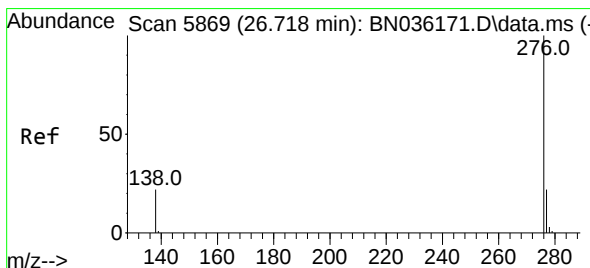
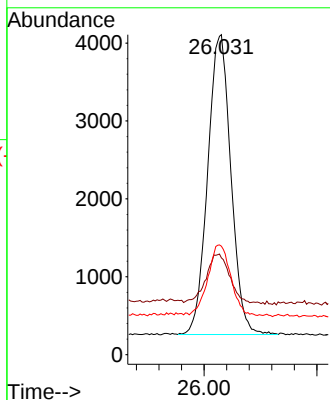
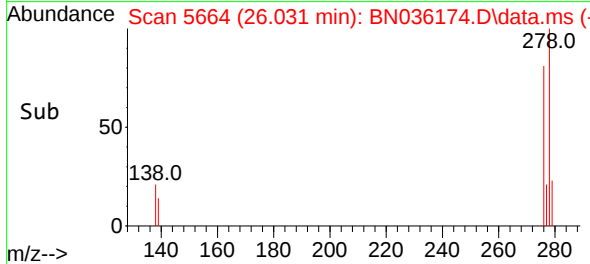
Instrument :  
BNA\_N  
ClientSampleId :  
E2964MS



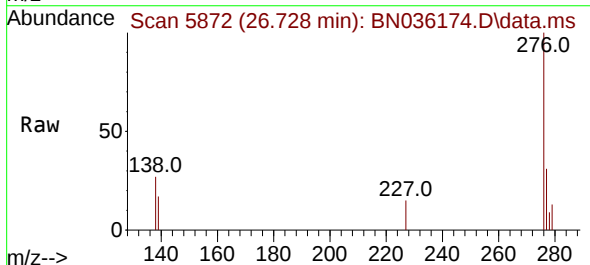
Tgt Ion:278 Resp: 11000  
Ion Ratio Lower Upper  
278 100  
139 30.3 15.4 23.2  
279 33.9 22.2 33.4

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Reviewed By :Jagrut Upadhyay 02/03/2025  
Supervised By :mohammad ahmed 02/04/2025



#29  
Benzo(g,h,i)perylene  
Concen: 0.343 ng/ul  
RT: 26.728 min Scan# 5872  
Delta R.T. 0.010 min  
Lab File: BN036174.D  
Acq: 31 Jan 2025 18:51



Tgt Ion:276 Resp: 10336  
Ion Ratio Lower Upper  
276 100  
138 26.5 19.4 29.0  
277 30.6 21.1 31.7

