

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052324\  
 Data File : BN031636.D  
 Acq On : 23 May 2024 17:35  
 Operator : MA/JU  
 Sample : P2547-08  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BH5Q1

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 05/24/2024  
 Supervised By :mohammad ahmed 05/25/2024

Quant Time: May 23 23:23:12 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue May 21 23:42:49 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.693  | 152  | 448182   | 20.000 | ng/u1 | 0.00     |
| 20) Naphthalene-d8            | 10.475 | 136  | 1885281  | 20.000 | ng/u1 | 0.00     |
| 38) Acenaphthene-d10          | 14.328 | 164  | 1050488  | 20.000 | ng/u1 | 0.00     |
| 64) Phenanthrene-d10          | 17.069 | 188  | 1714293  | 20.000 | ng/u1 | 0.00     |
| 79) Chrysene-d12              | 21.298 | 240  | 1195379  | 20.000 | ng/u1 | 0.00     |
| 88) Perylene-d12              | 24.233 | 264  | 1420331  | 20.000 | ng/u1 | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 3) 1,4-Dioxane-d8             | 3.205  | 96   | 39433    | 3.487  | ng/uL | 0.00     |
| 4) Pyridine-d5                | 3.605  | 84   | 510139   | 16.167 | ng/u1 | 0.00     |
| 7) Phenol-d5                  | 6.852  | 99   | 745054   | 20.195 | ng/u1 | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.028  | 67   | 446469   | 20.177 | ng/u1 | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.222  | 132  | 573618   | 20.178 | ng/u1 | 0.00     |
| 15) 4-Methylphenol-d8         | 8.387  | 113  | 550611   | 19.278 | ng/u1 | 0.00     |
| 21) Nitrobenzene-d5           | 8.846  | 128  | 268732   | 18.834 | ng/u1 | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.557  | 143  | 248042   | 18.205 | ng/u1 | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.093 | 165  | 502195   | 18.851 | ng/u1 | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.610 | 131  | 706441   | 18.396 | ng/u1 | 0.00     |
| 46) Dimethylphthalate-d6      | 13.740 | 166  | 1375736  | 20.781 | ng/u1 | 0.00     |
| 49) Acenaphthylene-d8         | 14.022 | 160  | 1655934  | 19.957 | ng/u1 | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.522 | 143  | 150458   | 12.012 | ng/u1 | 0.00     |
| 60) Fluorene-d10              | 15.322 | 176  | 1128943  | 19.678 | ng/u1 | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.434 | 200  | 88891    | 11.993 | ng/u1 | 0.00     |
| 73) Anthracene-d10            | 17.169 | 188  | 1541334  | 21.239 | ng/u1 | 0.00     |
| 81) Pyrene-d10                | 19.463 | 212  | 1463623  | 19.520 | ng/u1 | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.033 | 264  | 1429803  | 21.386 | ng/u1 | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 50) Acenaphthylene            | 14.045 | 152  | 133344   | 1.392  | ng/u1 | 98       |
| 72) Phenanthrene              | 17.116 | 178  | 475355   | 5.464  | ng/u1 | 99       |
| 74) Anthracene                | 17.204 | 178  | 112720   | 1.291  | ng/u1 | 98       |
| 80) Fluoranthene              | 19.128 | 202  | 1052506  | 11.356 | ng/u1 | 99       |
| 82) Pyrene                    | 19.492 | 202  | 989670   | 10.412 | ng/u1 | 96       |
| 85) Benzo(a)anthracene        | 21.280 | 228  | 487311   | 6.062  | ng/u1 | 94       |
| 86) Bis(2-ethylhexyl)phtha... | 21.222 | 149  | 72527    | 1.642  | ng/u1 | 99       |
| 87) Chrysene                  | 21.345 | 228  | 558744   | 7.525  | ng/u1 | 97       |
| 90) Benzo(b)fluoranthene      | 23.310 | 252  | 766561   | 9.249  | ng/u1 | 96       |
| 91) Benzo(k)fluoranthene      | 23.369 | 252  | 237776   | 2.814  | ng/u1 | 97       |
| 93) Benzo(a)pyrene            | 24.098 | 252  | 544092   | 6.834  | ng/u1 | 94       |
| 94) Indeno(1,2,3-cd)pyrene    | 27.527 | 276  | 372902   | 3.902  | ng/u1 | 97       |
| 95) Dibenzo(a,h)anthracene    | 27.562 | 278  | 101040m  | 1.284  | ng/u1 |          |
| 96) Benzo(g,h,i)perylene      | 28.551 | 276  | 390416   | 4.945  | ng/u1 | 97       |
| -----                         |        |      |          |        |       |          |

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

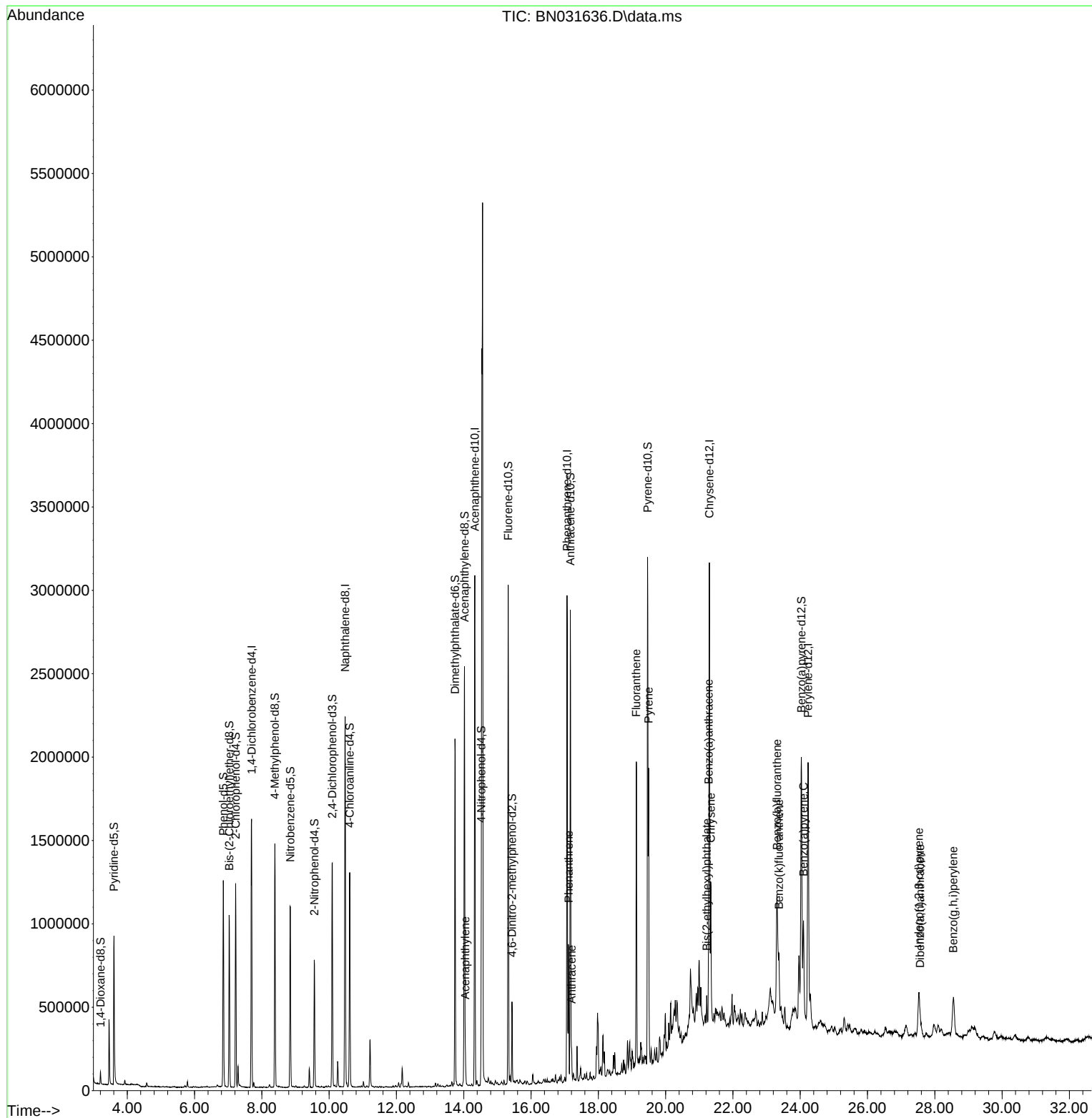
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052324\  
Data File : BN031636.D  
Acq On : 23 May 2024 17:35  
Operator : MA/JU  
Sample : P2547-08  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

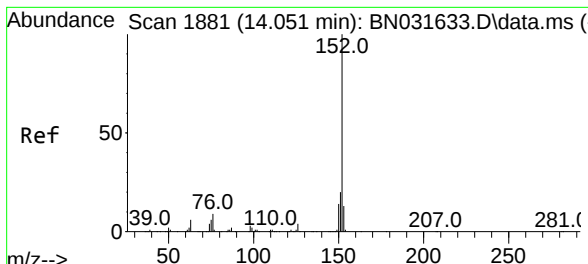
Instrument :  
BNA\_N  
ClientSampleId :  
BH5Q1

Quant Time: May 23 23:23:12 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue May 21 23:42:49 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 05/24/2024  
Supervised By :mohammad ahmed 05/25/2024





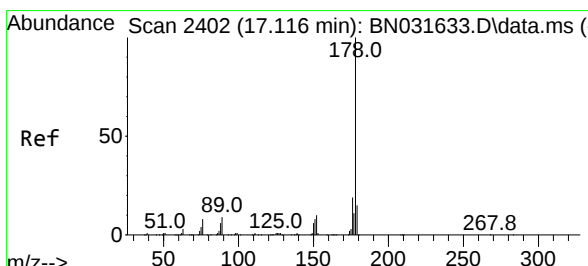
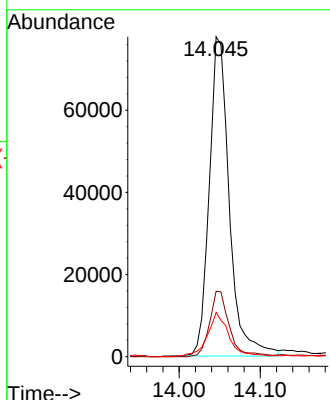
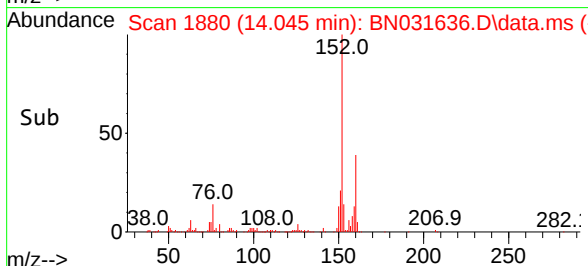
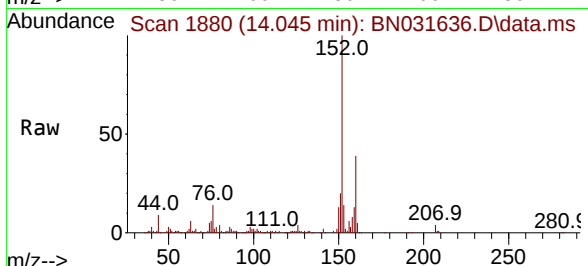
#50  
 Acenaphthylene  
 Concen: 1.392 ng/ul  
 RT: 14.045 min Scan# 1880  
 Delta R.T. -0.006 min  
 Lab File: BN031636.D  
 Acq: 23 May 2024 17:35

Instrument : BNA\_N  
 ClientSampleId : BH5Q1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 133344 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 20.5  | 15.6  | 23.4   |
| 153       | 13.8  | 10.8  | 16.2   |

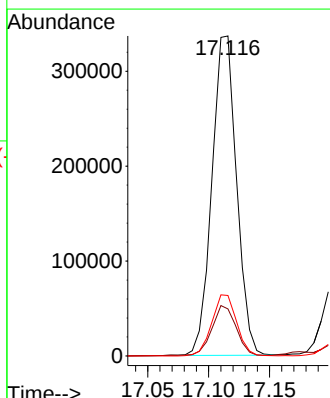
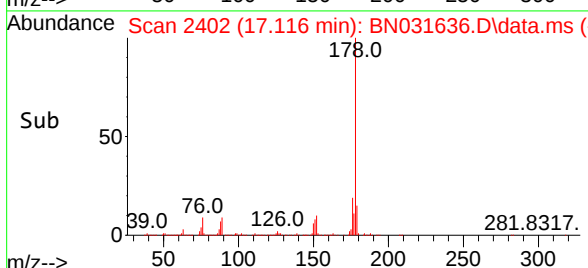
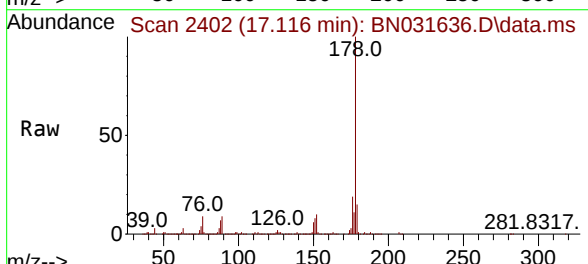
Manual Integrations  
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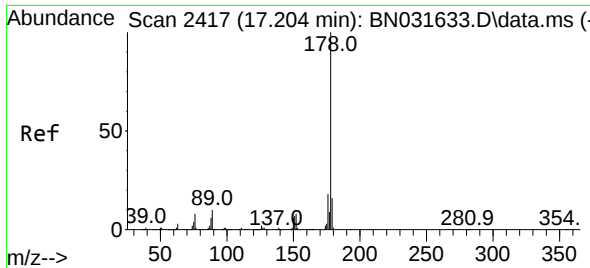
Reviewed By :Yogesh Patel 05/24/2024  
 Supervised By :mohammad ahmed 05/25/2024



#72  
 Phenanthrene  
 Concen: 5.464 ng/ul  
 RT: 17.116 min Scan# 2402  
 Delta R.T. 0.000 min  
 Lab File: BN031636.D  
 Acq: 23 May 2024 17:35

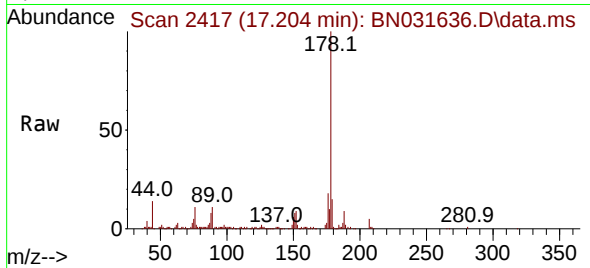
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 475355 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 14.7  | 12.6  | 18.8   |
| 176       | 18.9  | 15.2  | 22.8   |





#74  
 Anthracene  
 Concen: 1.291 ng/ul  
 RT: 17.204 min Scan# 2417  
 Delta R.T. 0.000 min  
 Lab File: BN031636.D  
 Acq: 23 May 2024 17:35

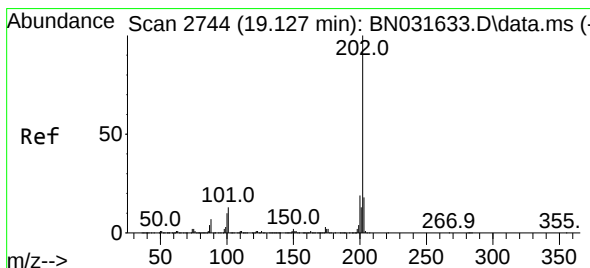
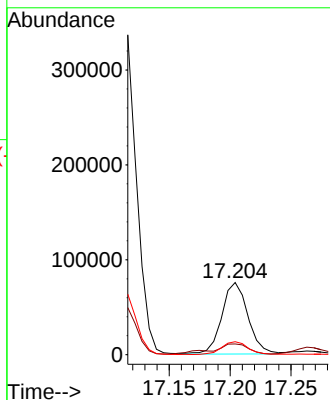
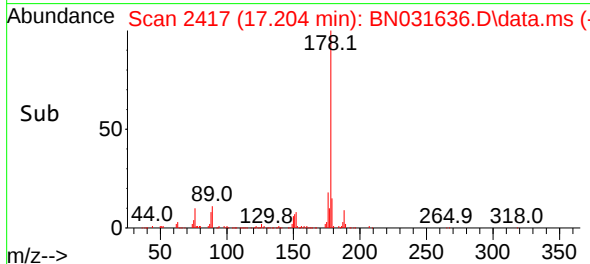
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BH5Q1



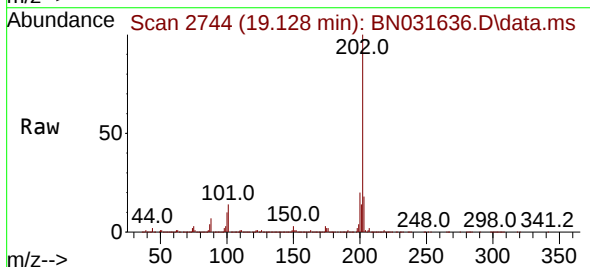
Tgt Ion:178 Resp: 112720  
 Ion Ratio Lower Upper  
 178 100  
 179 14.9 11.9 17.9  
 176 18.0 15.4 23.2

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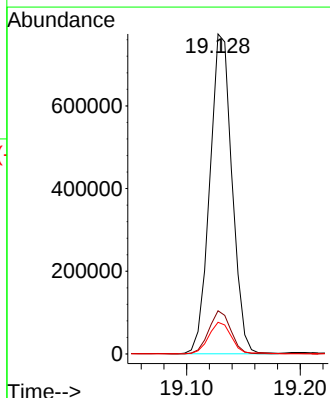
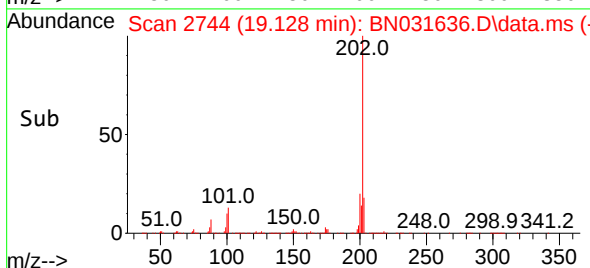
Reviewed By :Yogesh Patel 05/24/2024  
 Supervised By :mohammad ahmed 05/25/2024

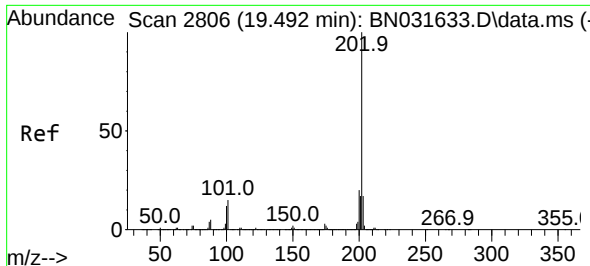


#80  
 Fluoranthene  
 Concen: 11.356 ng/ul  
 RT: 19.128 min Scan# 2744  
 Delta R.T. -0.006 min  
 Lab File: BN031636.D  
 Acq: 23 May 2024 17:35



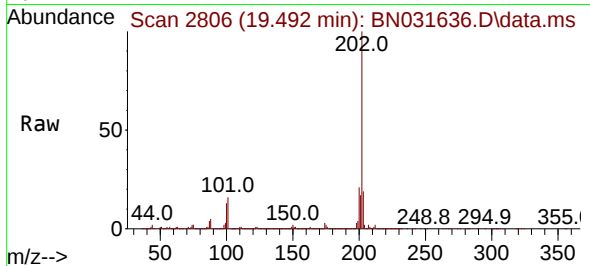
Tgt Ion:202 Resp: 1052506  
 Ion Ratio Lower Upper  
 202 100  
 101 13.5 10.1 15.1  
 100 9.9 8.0 12.0





#82  
Pyrene  
Concen: 10.412 ng/ul  
RT: 19.492 min Scan# 2110  
Delta R.T. -0.006 min  
Lab File: BN031636.D  
Acq: 23 May 2024 17:35

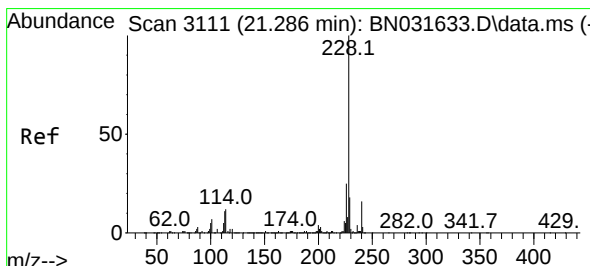
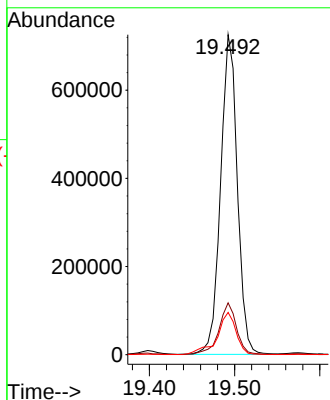
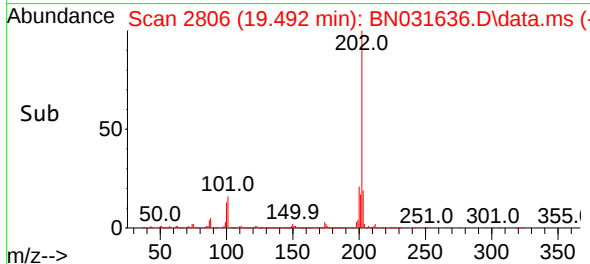
Instrument : BNA\_N  
ClientSampleId : BH5Q1



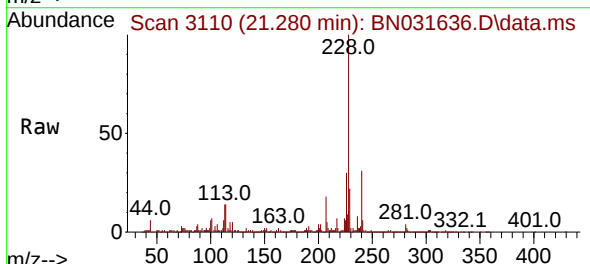
Tgt Ion:202 Resp: 989670  
Ion Ratio Lower Upper  
202 100  
101 16.2 11.4 17.2  
100 13.2 9.3 13.9

Manual Integrations  
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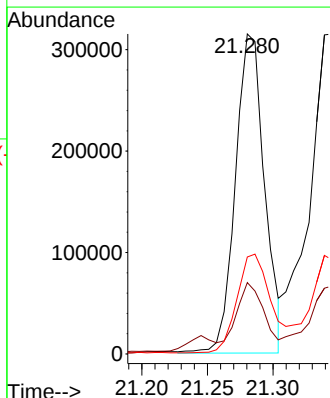
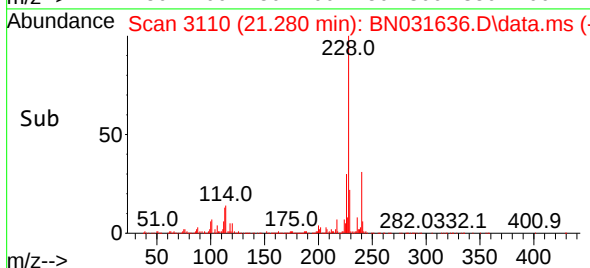
Reviewed By :Yogesh Patel 05/24/2024  
Supervised By :mohammad ahmed 05/25/2024

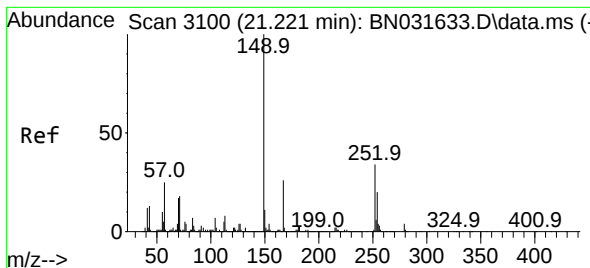


#85  
Benzo(a)anthracene  
Concen: 6.062 ng/ul  
RT: 21.280 min Scan# 3110  
Delta R.T. -0.006 min  
Lab File: BN031636.D  
Acq: 23 May 2024 17:35



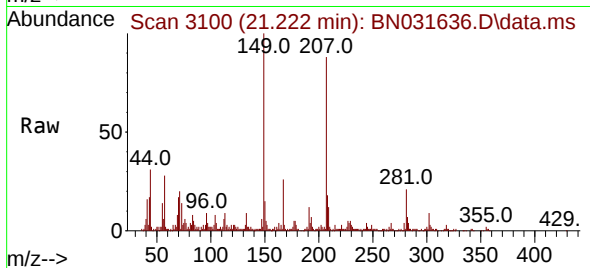
Tgt Ion:228 Resp: 487311  
Ion Ratio Lower Upper  
228 100  
229 22.3 15.7 23.5  
226 30.3 21.9 32.9





#86  
 Bis(2-ethylhexyl)phthalate  
 Concen: 1.642 ng/ul  
 RT: 21.222 min Scan# 3100  
 Delta R.T. 0.000 min  
 Lab File: BN031636.D  
 Acq: 23 May 2024 17:35

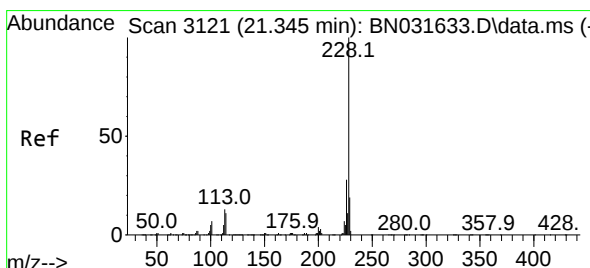
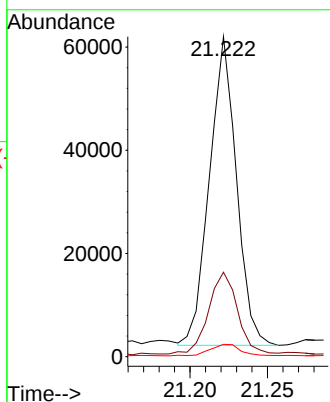
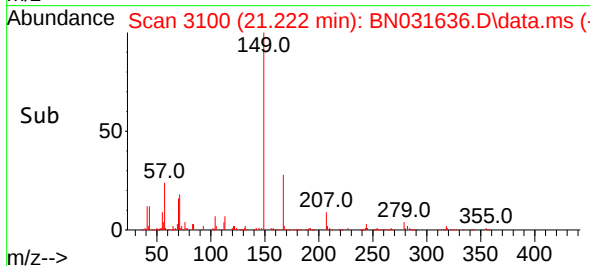
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BH5Q1



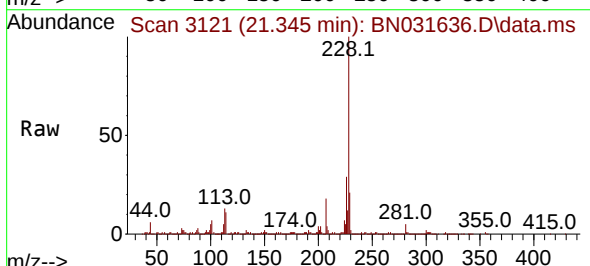
Tgt Ion:149 Resp: 7252  
 Ion Ratio Lower Upper  
 149 100  
 167 26.4 21.6 32.4  
 279 3.9 2.8 4.2

Manual Integrations  
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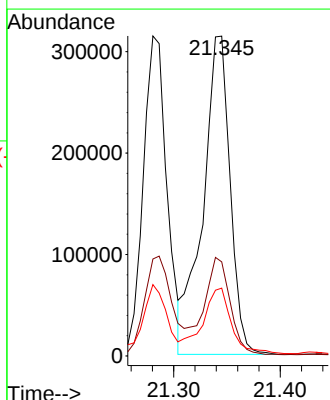
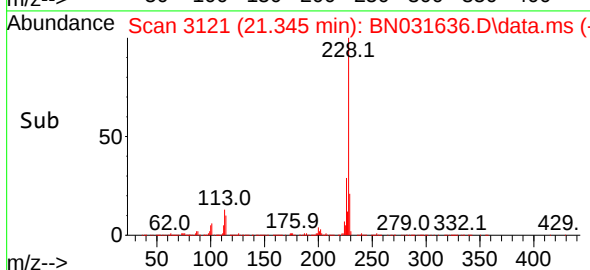
Reviewed By :Yogesh Patel 05/24/2024  
 Supervised By :mohammad ahmed 05/25/2024

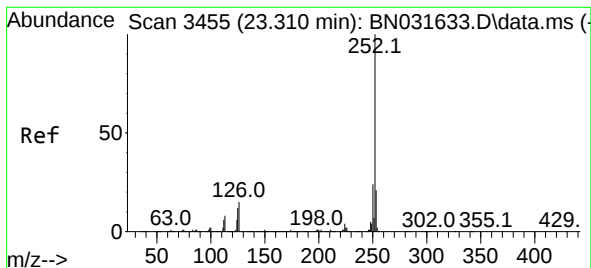


#87  
 Chrysene  
 Concen: 7.525 ng/ul  
 RT: 21.345 min Scan# 3121  
 Delta R.T. 0.000 min  
 Lab File: BN031636.D  
 Acq: 23 May 2024 17:35



Tgt Ion:228 Resp: 558744  
 Ion Ratio Lower Upper  
 228 100  
 226 29.4 22.9 34.3  
 229 21.2 15.2 22.8





#90

Benzo(b)fluoranthene

Concen: 9.249 ng/ul

RT: 23.310 min Scan# 3455

Delta R.T. 0.000 min

Lab File: BN031636.D

Acq: 23 May 2024 17:35

Instrument :

BNA\_N

ClientSampleId :

BH5Q1

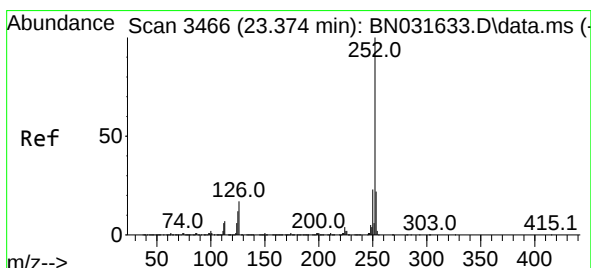
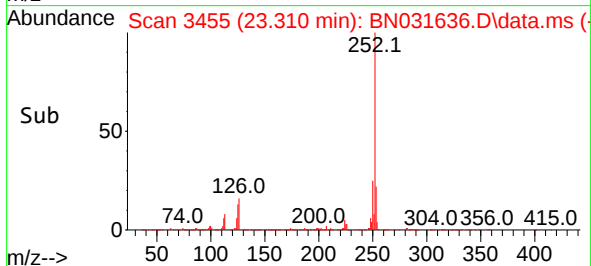
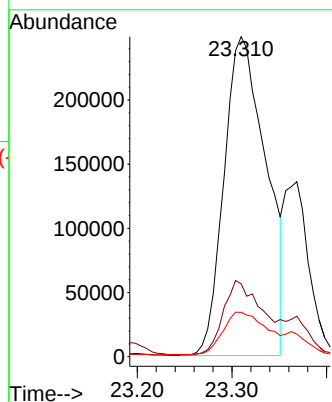
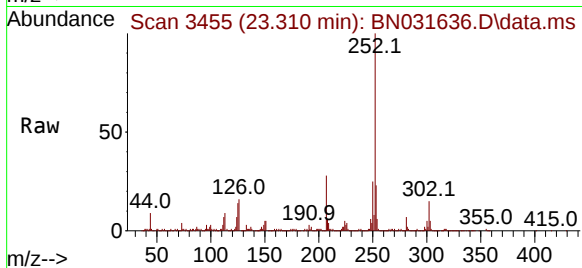
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|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 76656 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.7  | 16.8  | 25.2  |
| 125       | 13.8  | 9.3   | 13.9  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 05/24/2024

Supervised By :mohammad ahmed 05/25/2024



#91

Benzo(k)fluoranthene

Concen: 2.814 ng/ul

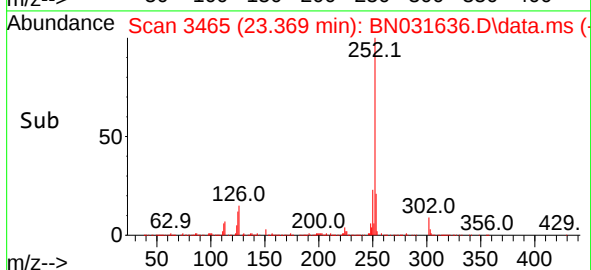
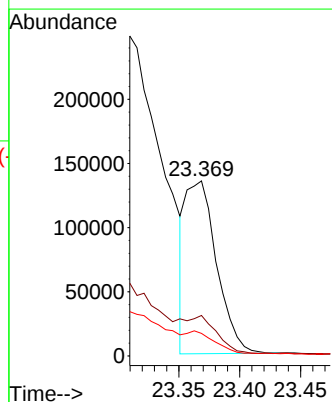
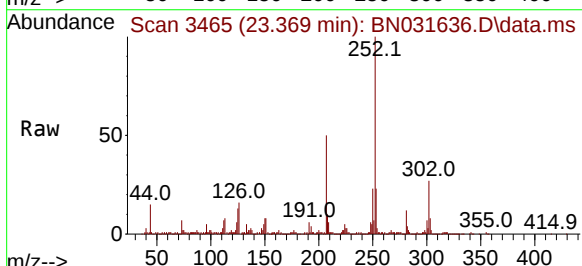
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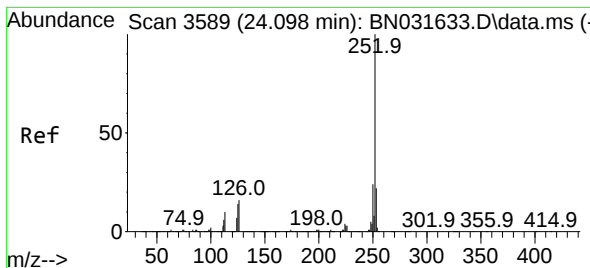
Delta R.T. 0.000 min

Lab File: BN031636.D

Acq: 23 May 2024 17:35

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 237776 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.2  | 17.4  | 26.0   |
| 125       | 12.9  | 9.3   | 13.9   |





#93

Benzo(a)pyrene

Concen: 6.834 ng/u1

RT: 24.098 min Scan# 3589

Delta R.T. -0.006 min

Lab File: BN031636.D

Acq: 23 May 2024 17:35

Instrument :

BNA\_N

ClientSampleId :

BH5Q1

Tgt Ion:252 Resp: 544092

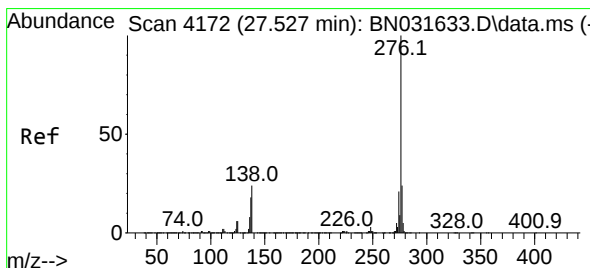
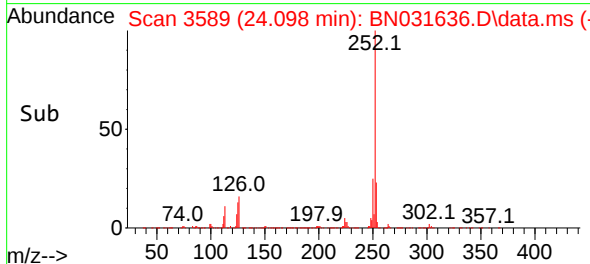
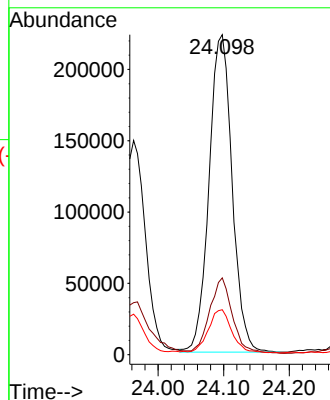
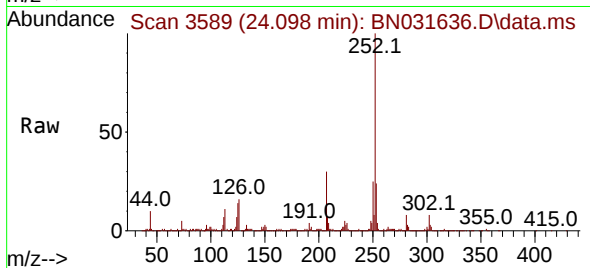
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 24.0  | 16.6  | 24.8  |
| 125 | 14.0  | 9.8   | 14.8  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 05/24/2024

Supervised By :mohammad ahmed 05/25/2024



#94

Indeno(1,2,3-cd)pyrene

Concen: 3.902 ng/u1

RT: 27.527 min Scan# 4172

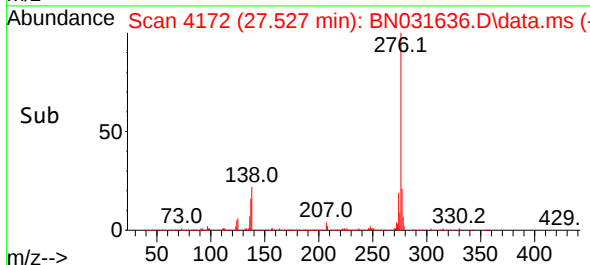
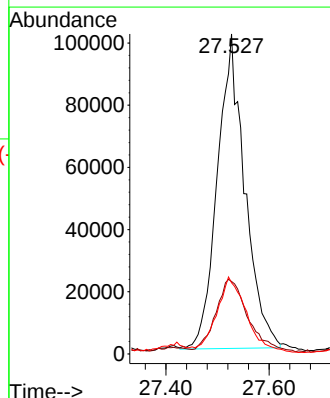
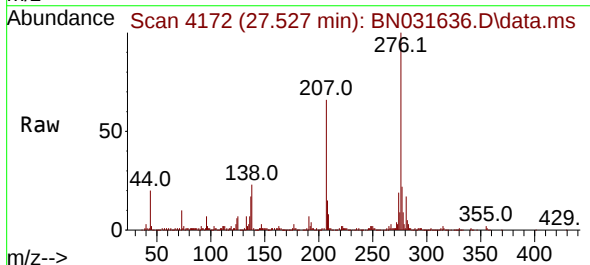
Delta R.T. -0.006 min

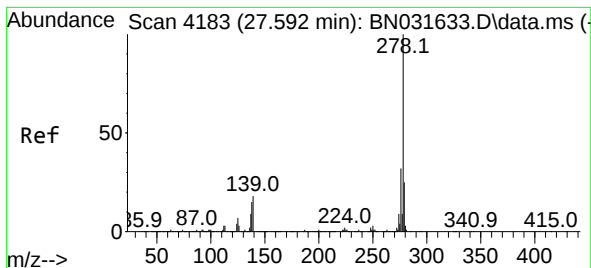
Lab File: BN031636.D

Acq: 23 May 2024 17:35

Tgt Ion:276 Resp: 372902

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 22.7  | 19.8  | 29.6  |
| 277 | 22.3  | 18.2  | 27.4  |





#95

Dibenzo(a,h)anthracene

Concen: 1.284 ng/ul m

RT: 27.562 min Scan# 4183

Delta R.T. -0.029 min

Lab File: BN031636.D

Acq: 23 May 2024 17:35

Instrument :

BNA\_N

ClientSampleId :

BH5Q1

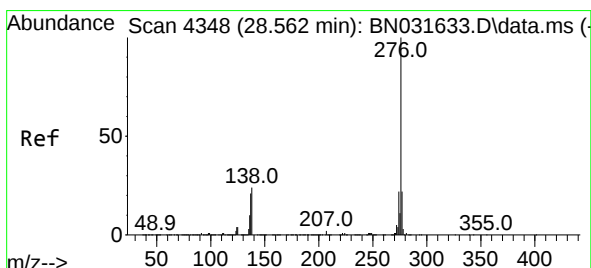
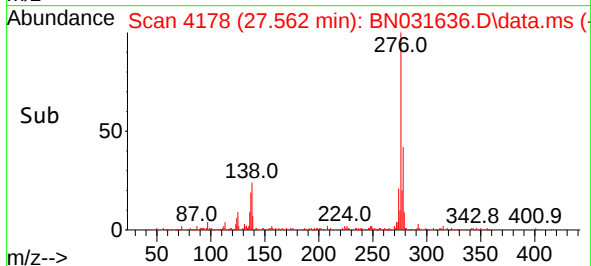
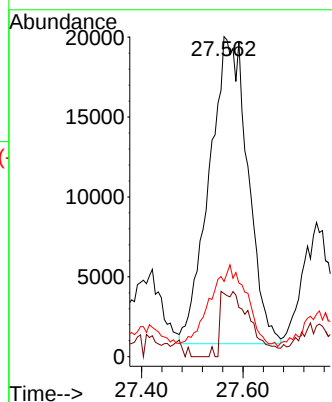
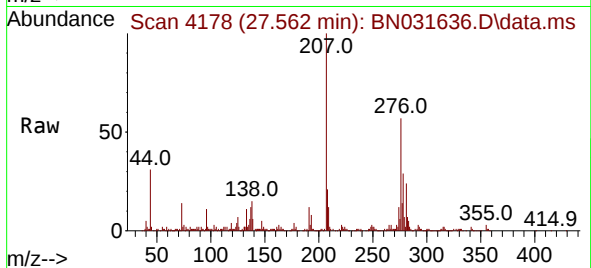
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 278   | Resp: | 101040 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 19.8  | 15.2  | 22.8   |
| 279       | 23.5  | 18.4  | 27.6   |

Manual Integrations

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Reviewed By :Yogesh Patel 05/24/2024

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#96

Benzo(g,h,i)perylene

Concen: 4.945 ng/ul

RT: 28.551 min Scan# 4346

Delta R.T. -0.006 min

Lab File: BN031636.D

Acq: 23 May 2024 17:35

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 390416 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 26.4  | 19.5  | 29.3   |
| 277       | 23.2  | 17.6  | 26.4   |

