

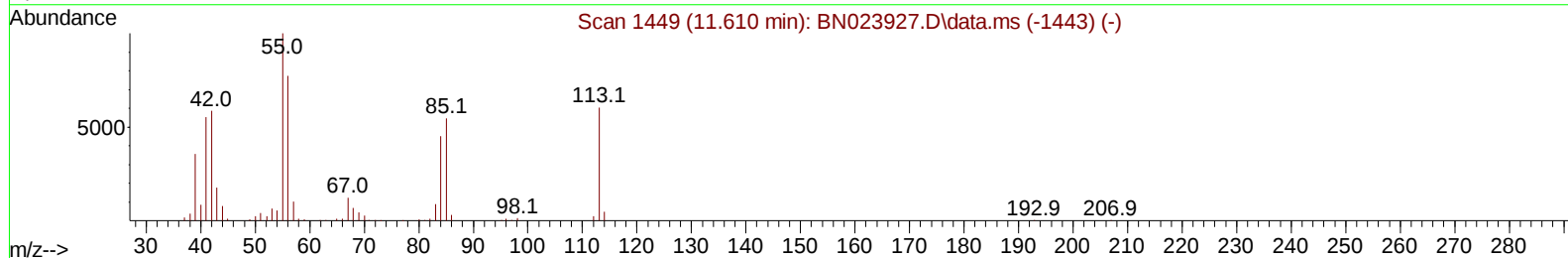
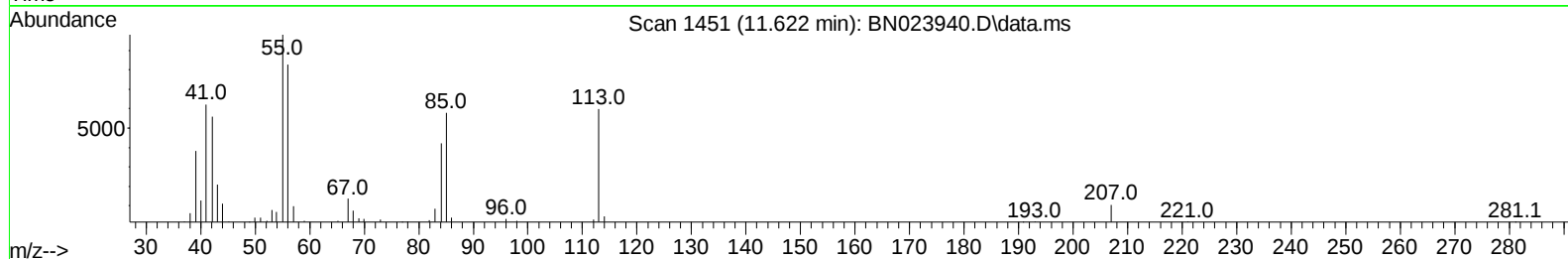
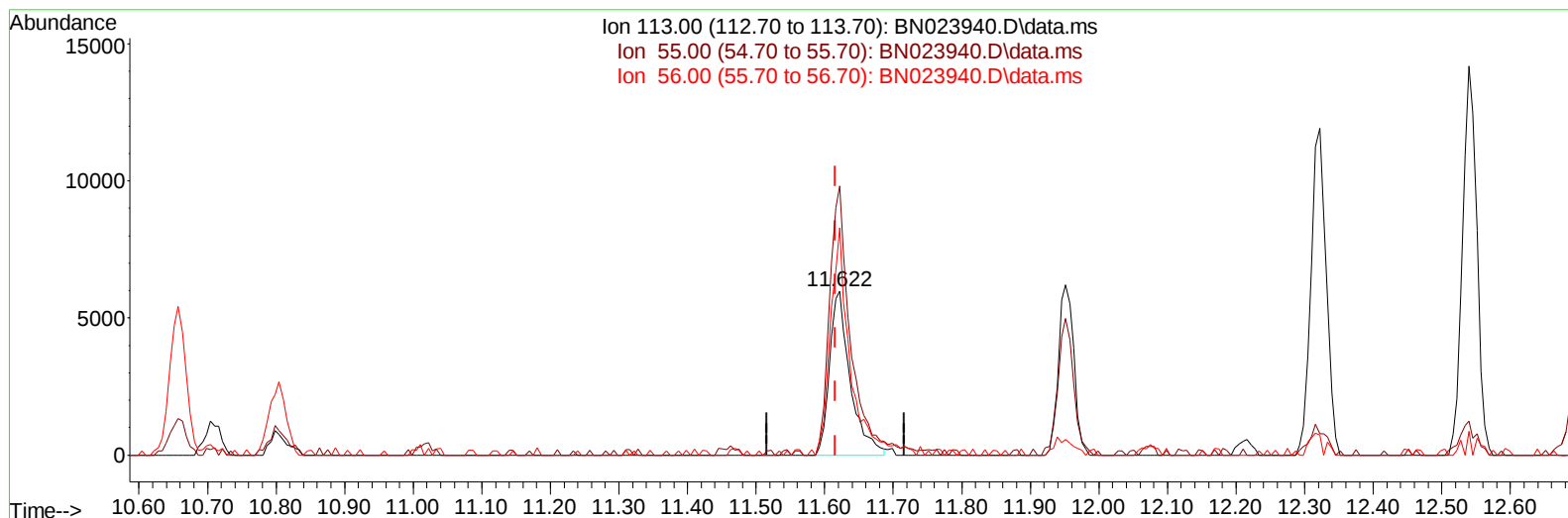
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN020223\  
Data File : BN023940.D  
Acq On : 03 Feb 2023 13:19  
Operator : CG/JU  
Sample : 01316-02MS  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A44G7MS

Manual IntegrationsAPPROVED

Quant Time: Feb 03 21:51:19 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN020123.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Feb 02 02:10:45 2023  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 02/06/2023  
Supervised By :mohammad ahmed 02/06/2023



TIC: BN023940.D\data.ms

(34) Caprolactam

11.622min (+ 0.006) 3.31 ng/ul

response 12487

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 157.00 | 164.30 |
| 56.00  | 117.60 | 138.83 |
| 0.00   | 0.00   | 0.00   |

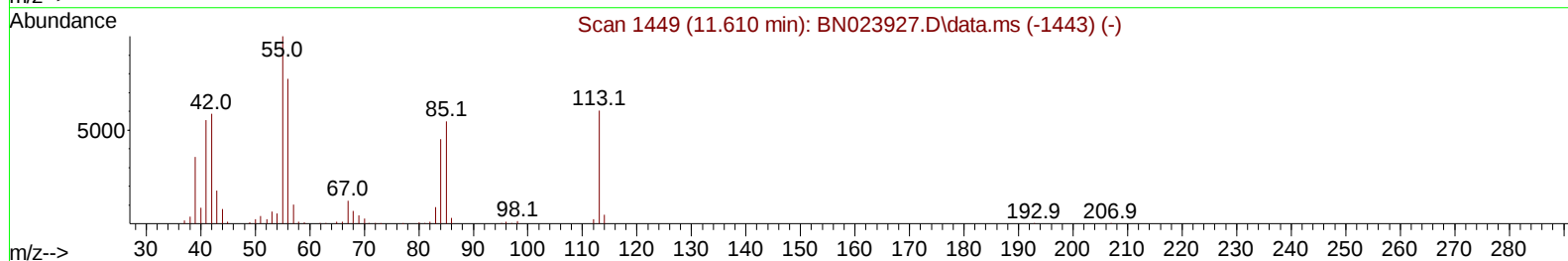
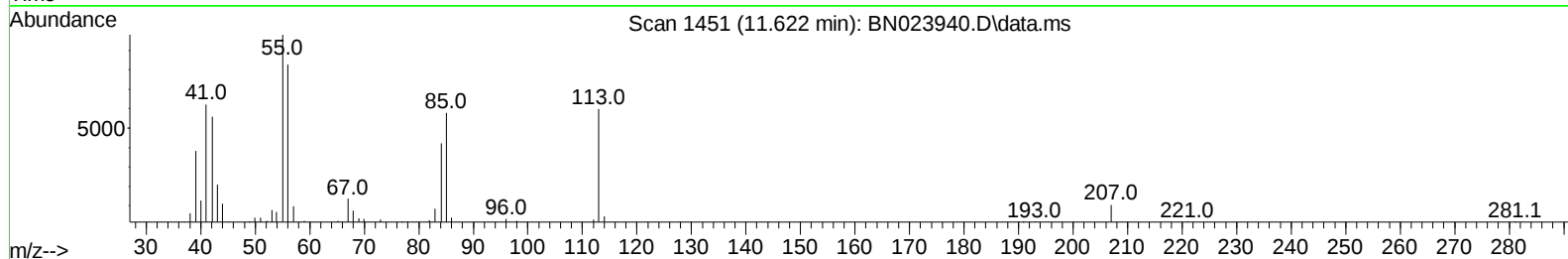
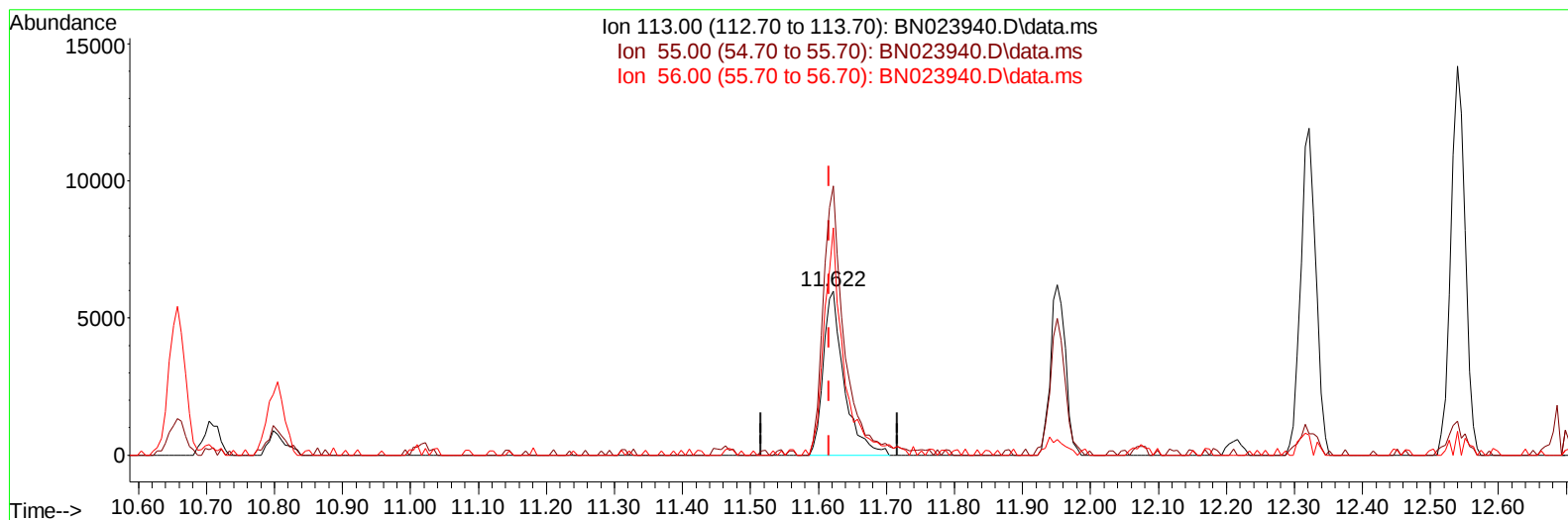
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN020223\  
Data File : BN023940.D  
Acq On : 03 Feb 2023 13:19  
Operator : CG/JU  
Sample : 01316-02MS  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A44G7MS

Manual IntegrationsAPPROVED

Quant Time: Feb 03 21:51:19 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN020123.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Feb 02 02:10:45 2023  
Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 02/06/2023  
Supervised By :mohammad ahmed 02/06/2023



TIC: BN023940.D\data.ms

**(34) Caprolactam**

**11.622min (+ 0.006) 3.35 ng/ul m**

**response 12645**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 157.00 | 164.30 |
| 56.00  | 117.60 | 138.83 |
| 0.00   | 0.00   | 0.00   |

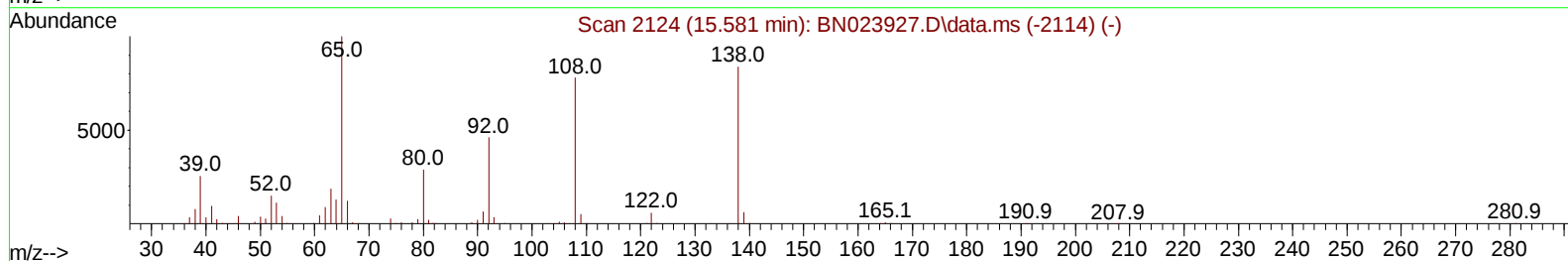
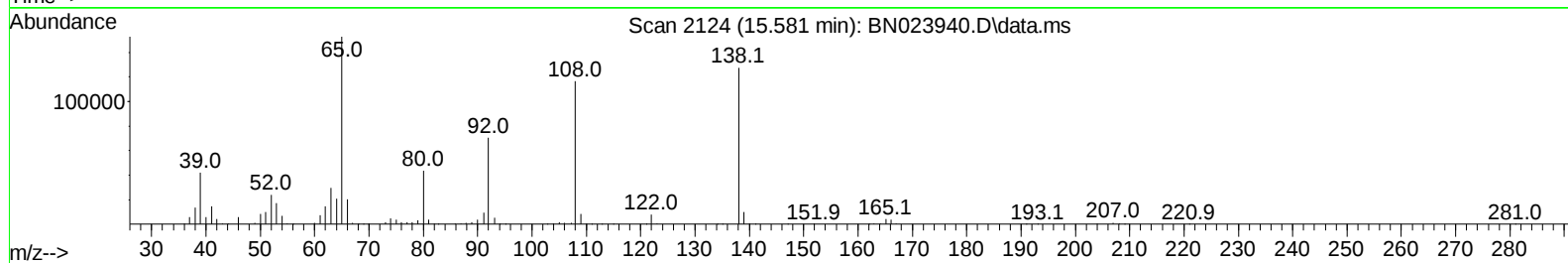
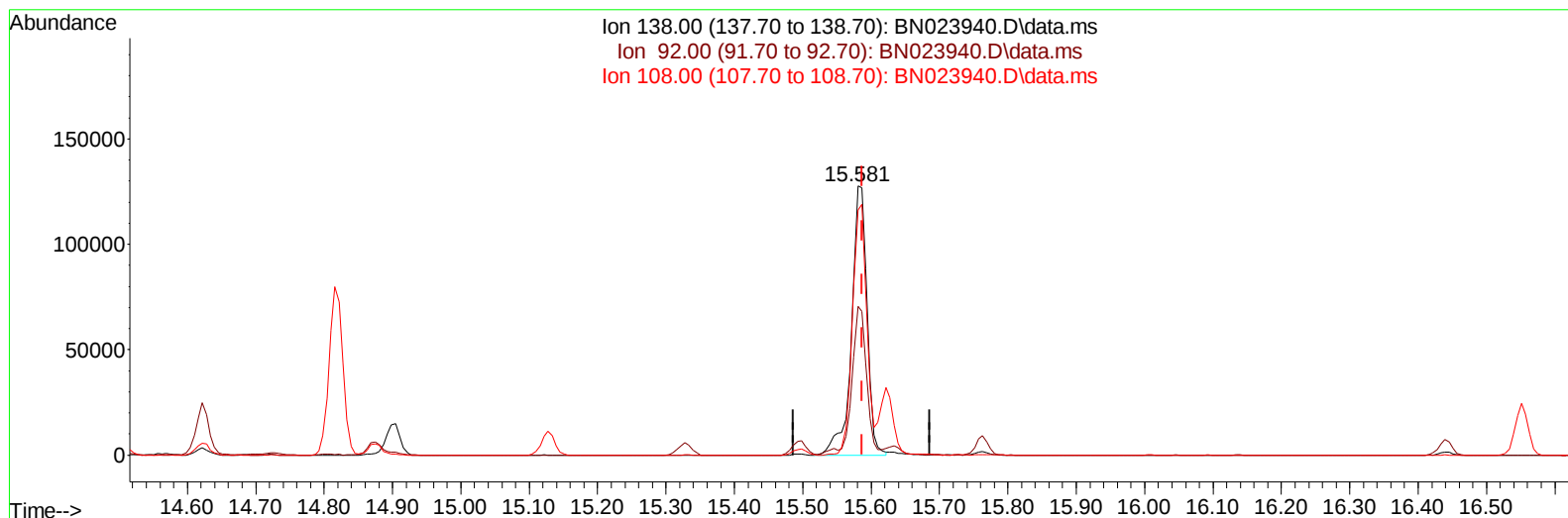
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN020223\  
 Data File : BN023940.D  
 Acq On : 03 Feb 2023 13:19  
 Operator : CG/JU  
 Sample : 01316-02MS  
 Misc :  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A44G7MS

Manual IntegrationsAPPROVED

Quant Time: Feb 03 21:51:19 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN020123.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Feb 02 02:10:45 2023  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 02/06/2023  
 Supervised By :mohammad ahmed 02/06/2023



TIC: BN023940.D\data.ms

**(63) 4-Nitroaniline**

**15.581min (-0.006) 33.86 ng/ul**

**response 201701**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 138.00 | 100.00 | 100.00 |
| 92.00  | 51.90  | 55.28  |
| 108.00 | 88.80  | 91.19  |
| 0.00   | 0.00   | 0.00   |

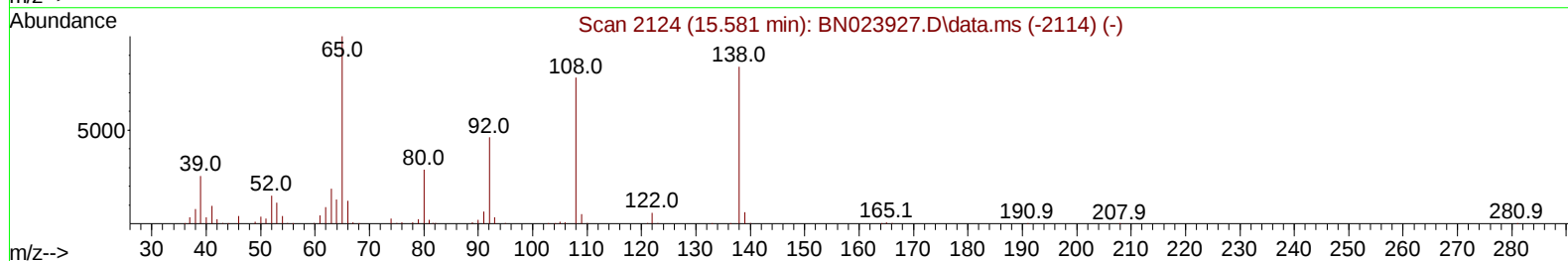
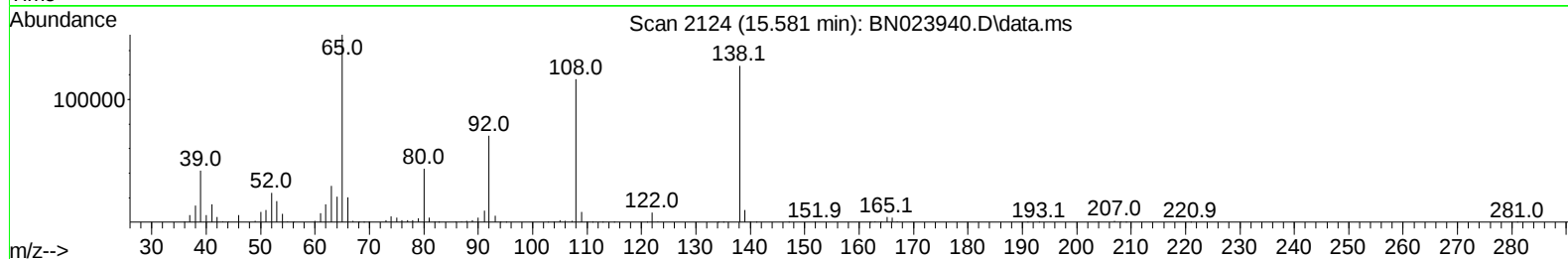
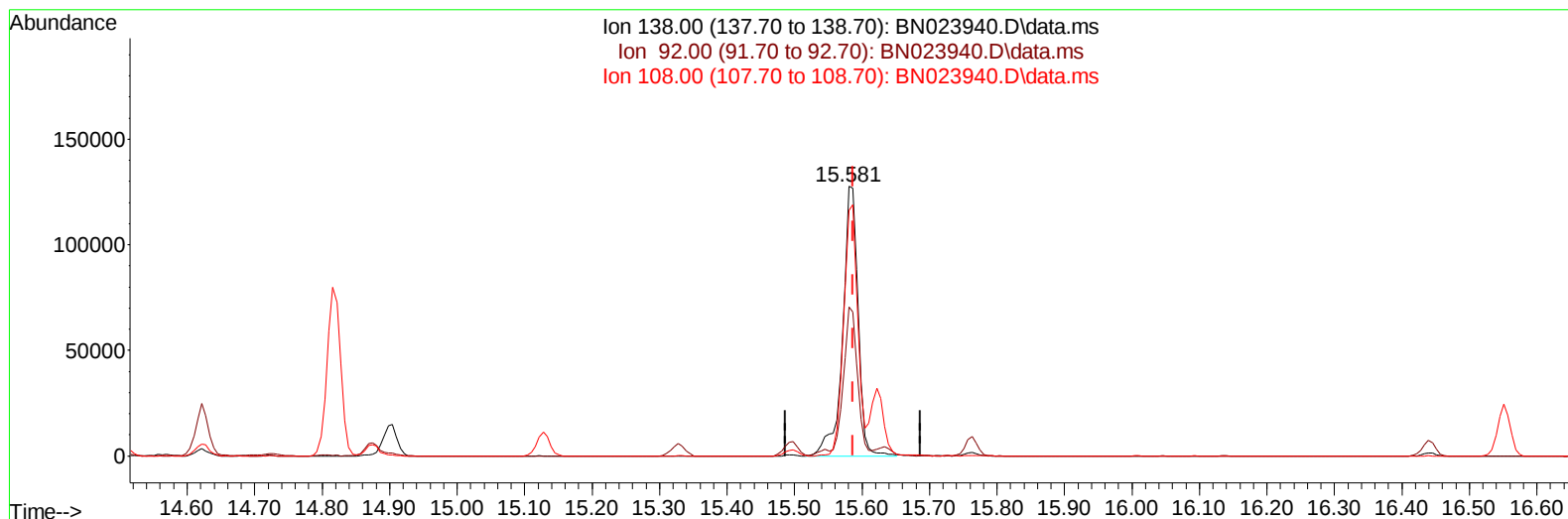
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN020223\  
 Data File : BN023940.D  
 Acq On : 03 Feb 2023 13:19  
 Operator : CG/JU  
 Sample : 01316-02MS  
 Misc :  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A44G7MS

Manual IntegrationsAPPROVED

Quant Time: Feb 03 21:51:19 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN020123.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Feb 02 02:10:45 2023  
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Reviewed By :Jagrut Upadhyay 02/06/2023  
 Supervised By :mohammad ahmed 02/06/2023



TIC: BN023940.D\data.ms

**(63) 4-Nitroaniline**

**15.581min (-0.006) 34.16 ng/ul m**

**response 203506**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 138.00 | 100.00 | 100.00 |
| 92.00  | 51.90  | 55.28  |
| 108.00 | 88.80  | 91.19  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN020223\  
 Data File : BN023940.D  
 Acq On : 03 Feb 2023 13:19  
 Operator : CG/JU  
 Sample : 01316-02MS  
 Misc :  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A44G7MS

Manual IntegrationsAPPROVED

Quant Time: Feb 03 21:51:19 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN020123.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Feb 02 02:10:45 2023  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 02/06/2023  
 Supervised By :mohammad ahmed 02/06/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.846  | 152  | 171518   | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.657 | 136  | 726724   | 20.000 | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.504 | 164  | 464117   | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.251 | 188  | 979682   | 20.000 | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 21.445 | 240  | 773737   | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 23.845 | 264  | 714817   | 20.000 | ng/ul  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.240  | 96   | 18904    | 4.448  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.664  | 84   | 94370    | 7.948  | ng/ul  | 0.00     |
| 7) Phenol-d5                  | 7.016  | 99   | 88131    | 5.884  | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.181  | 67   | 258988   | 27.361 | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.375  | 132  | 242741   | 20.727 | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.569  | 113  | 165358   | 13.917 | ng/ul  | 0.00     |
| 21) Nitrobenzene-d5           | 9.022  | 128  | 163090   | 27.660 | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.740  | 143  | 170998   | 25.488 | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.281 | 165  | 310063   | 24.752 | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.804 | 131  | 345953   | 20.243 | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.916 | 166  | 1129770  | 30.490 | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.198 | 160  | 1175289  | 29.321 | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.710 | 143  | 41137    | 6.124  | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.498 | 176  | 931241   | 29.979 | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.622 | 200  | 198962   | 28.700 | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.351 | 188  | 1431465  | 31.385 | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 19.645 | 212  | 1613483  | 34.347 | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.680 | 264  | 1199699  | 32.337 | ng/ul  | -0.01    |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.275  | 88   | 19327    | 4.415  | ng/ul# | 83       |
| 5) Pyridine                   | 3.687  | 79   | 101125   | 8.476  | ng/ul  | 95       |
| 6) Benzaldehyde               | 6.987  | 77   | 263973   | 40.531 | ng/ul  | 97       |
| 8) Phenol                     | 7.046  | 94   | 97927    | 6.504  | ng/ul  | 98       |
| 10) Bis(2-Chloroethyl)ether   | 7.275  | 93   | 327203   | 26.673 | ng/ul  | 99       |
| 12) 2-Chlorophenol            | 7.410  | 128  | 250946   | 21.175 | ng/ul  | 99       |
| 13) 2-Methylphenol            | 8.299  | 108  | 186911   | 16.361 | ng/ul  | 98       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.387  | 45   | 423134   | 27.011 | ng/ul  | 99       |
| 16) Acetophenone              | 8.681  | 105  | 515071   | 27.991 | ng/ul  | 98       |
| 17) N-Nitroso-di-n-propyla... | 8.663  | 70   | 280383   | 27.756 | ng/ul  | 99       |
| 18) 4-Methylphenol            | 8.634  | 108  | 180064   | 14.551 | ng/ul  | 98       |
| 19) Hexachloroethane          | 8.928  | 117  | 122478   | 24.676 | ng/ul  | 93       |
| 22) Nitrobenzene              | 9.063  | 77   | 412727   | 27.883 | ng/ul  | 99       |
| 23) Isophorone                | 9.593  | 82   | 770531   | 27.580 | ng/ul  | 98       |
| 25) 2-Nitrophenol             | 9.775  | 139  | 180329   | 25.884 | ng/ul  | 98       |
| 26) 2,4-Dimethylphenol        | 9.834  | 107  | 293013   | 21.238 | ng/ul  | 99       |
| 27) Bis(2-Chloroethoxy)met... | 10.075 | 93   | 467032   | 27.363 | ng/ul  | 99       |
| 29) 2,4-Dichlorophenol        | 10.310 | 162  | 297498   | 24.611 | ng/ul  | 100      |
| 30) Naphthalene               | 10.710 | 128  | 1045015  | 26.552 | ng/ul  | 99       |
| 32) 4-Chloroaniline           | 10.828 | 127  | 350858   | 20.628 | ng/ul  | 100      |
| 33) Hexachlorobutadiene       | 10.987 | 225  | 217904   | 25.724 | ng/ul  | 96       |
| 34) Caprolactam               | 11.622 | 113  | 12645m   | 3.348  | ng/ul  |          |
| 35) 4-Chloro-3-methylphenol   | 11.951 | 107  | 298157   | 23.011 | ng/ul  | 99       |

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 Sample : 01316-02MS  
 Misc :  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A44G7MS

Manual IntegrationsAPPROVED

Quant Time: Feb 03 21:51:19 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN020123.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Feb 02 02:10:45 2023  
 Response via : Initial Calibration

Reviewed By :Jagrut Upadhyay 02/06/2023  
 Supervised By :mohammad ahmed 02/06/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 36) 2-Methylnaphthalene       | 12.322 | 142  | 741152   | 27.715 | ng/ul  | 97       |
| 37) 1-Methylnaphthalene       | 12.540 | 142  | 755304   | 27.607 | ng/ul  | 97       |
| 39) 1,2,4,5-Tetrachloroben... | 12.692 | 216  | 461666   | 28.950 | ng/ul  | 92       |
| 40) Hexachlorocyclopentadiene | 12.663 | 237  | 250064   | 21.780 | ng/ul  | 92       |
| 41) 2,4,6-Trichlorophenol     | 12.934 | 196  | 284604   | 27.049 | ng/ul  | 96       |
| 42) 2,4,5-Trichlorophenol     | 13.004 | 196  | 315624   | 27.694 | ng/ul  | 98       |
| 43) 1,1'-Biphenyl             | 13.334 | 154  | 1040674  | 28.454 | ng/ul  | 99       |
| 44) 2-Chloronaphthalene       | 13.375 | 162  | 815063   | 28.641 | ng/ul  | 99       |
| 45) 2-Nitroaniline            | 13.592 | 65   | 256873   | 30.062 | ng/ul  | 97       |
| 47) Dimethylphthalate         | 13.963 | 163  | 1104119  | 30.025 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 14.092 | 165  | 232172   | 31.845 | ng/ul  | 93       |
| 50) Acenaphthylene            | 14.222 | 152  | 1258855  | 29.241 | ng/ul  | 100      |
| 51) 3-Nitroaniline            | 14.416 | 138  | 191188   | 29.131 | ng/ul  | 95       |
| 52) Acenaphthene              | 14.569 | 153  | 862540   | 28.862 | ng/ul  | 99       |
| 53) 2,4-Dinitrophenol         | 14.622 | 184  | 125722   | 24.530 | ng/ul  | 94       |
| 55) 4-Nitrophenol             | 14.722 | 109  | 37491    | 6.565  | ng/ul  | 95       |
| 56) Dibenzofuran              | 14.898 | 168  | 1229027  | 28.828 | ng/ul  | 96       |
| 57) 2,4-Dinitrotoluene        | 14.875 | 165  | 321862   | 31.203 | ng/ul  | 97       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.128 | 232  | 287485   | 28.285 | ng/ul  | 97       |
| 59) Diethylphthalate          | 15.328 | 149  | 1102344  | 30.168 | ng/ul  | 98       |
| 61) Fluorene                  | 15.551 | 166  | 1021811  | 29.307 | ng/ul  | 95       |
| 62) 4-Chlorophenyl-phenyle... | 15.545 | 204  | 547899   | 29.955 | ng/ul  | 97       |
| 63) 4-Nitroaniline            | 15.581 | 138  | 203506m  | 34.165 | ng/ul  |          |
| 66) 4,6-Dinitro-2-methylph... | 15.639 | 198  | 189347   | 28.368 | ng/ul  | 99       |
| 67) N-Nitrosodiphenylamine    | 15.763 | 169  | 903184   | 31.929 | ng/ul  | 99       |
| 68) 4-Bromophenyl-phenylether | 16.439 | 248  | 362834   | 31.622 | ng/ul  | 97       |
| 69) Hexachlorobenzene         | 16.551 | 284  | 414628   | 31.279 | ng/ul# | 89       |
| 70) Atrazine                  | 16.722 | 200  | 333314   | 29.326 | ng/ul  | 99       |
| 71) Pentachlorophenol         | 16.898 | 266  | 232513   | 27.396 | ng/ul  | 95       |
| 72) Phenanthrene              | 17.292 | 178  | 1629264  | 30.879 | ng/ul  | 99       |
| 74) Anthracene                | 17.386 | 178  | 1625922  | 30.918 | ng/ul  | 100      |
| 75) 1,2,3,4-Tetrachloroben... | 13.298 | 216  | 456010   | 30.254 | ng/uL  | 95       |
| 76) Pentachlorobenzene        | 14.816 | 250  | 470343   | 31.291 | ng/uL  | 96       |
| 77) Carbazole                 | 17.663 | 167  | 1423524  | 30.890 | ng/ul  | 98       |
| 78) Di-n-butylphthalate       | 18.222 | 149  | 1837503  | 18.603 | ng/ul  | 100      |
| 80) Fluoranthene              | 19.310 | 202  | 1880163  | 34.284 | ng/ul  | 99       |
| 82) Pyrene                    | 19.674 | 202  | 1887894  | 33.845 | ng/ul  | 99       |
| 83) Butylbenzylphthalate      | 20.580 | 149  | 749972   | 32.238 | ng/ul  | 99       |
| 84) 3,3'-Dichlorobenzidine    | 21.368 | 252  | 413250   | 22.740 | ng/ul  | 97       |
| 85) Benzo(a)anthracene        | 21.427 | 228  | 1677636  | 31.288 | ng/ul  | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.357 | 149  | 1111556  | 32.388 | ng/ul  | 98       |
| 87) Chrysene                  | 21.480 | 228  | 1534742  | 31.020 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.286 | 149  | 1681512  | 31.274 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.115 | 252  | 1558825  | 31.620 | ng/ul  | 98       |
| 91) Benzo(k)fluoranthene      | 23.157 | 252  | 1383919  | 29.727 | ng/ul  | 93       |
| 93) Benzo(a)pyrene            | 23.739 | 252  | 1308928  | 31.559 | ng/ul  | 98       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.327 | 276  | 1651153  | 32.991 | ng/ul  | 98       |
| 95) Dibenzo(a,h)anthracene    | 26.345 | 278  | 1406526  | 33.980 | ng/ul  | 97       |
| 96) Benzo(g,h,i)perylene      | 27.098 | 276  | 1334496  | 33.863 | ng/ul  | 97       |

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

**Instrument :**

BNA\_N

**ClientSampleId :**

A44G7MS

**Manual IntegrationsAPPROVED**

Reviewed By :Jagrut Upadhyay 02/06/2023  
Supervised By :mohammad ahmed 02/06/2023

