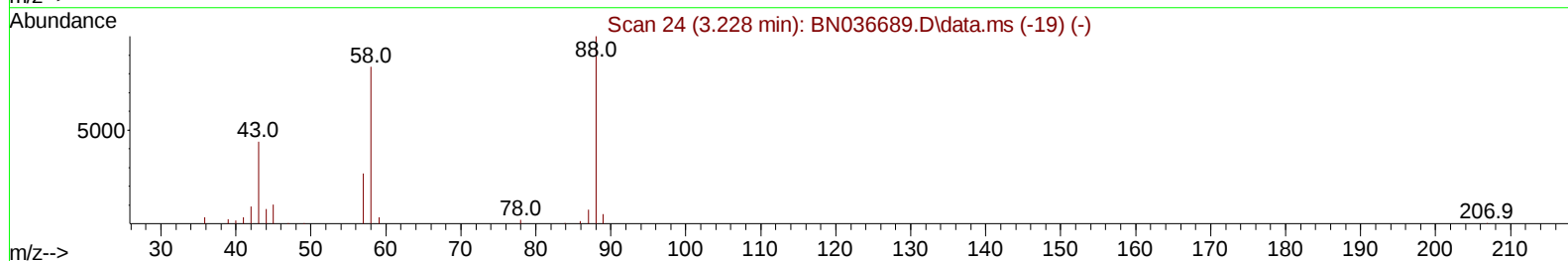
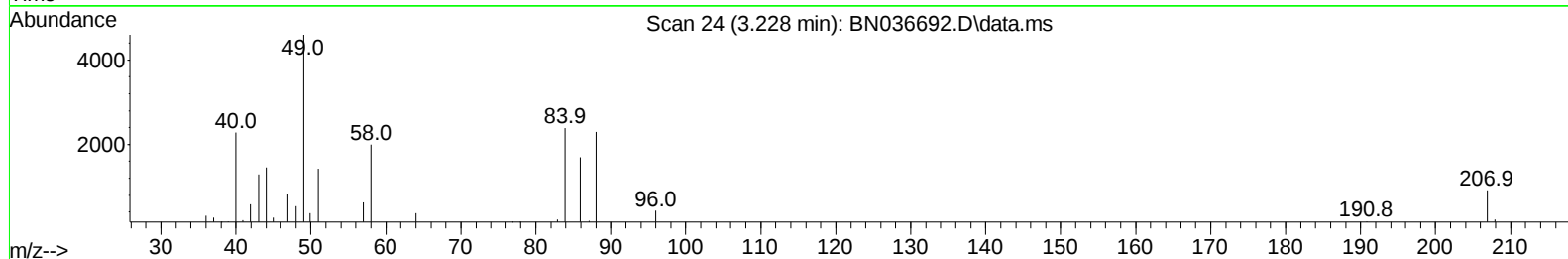
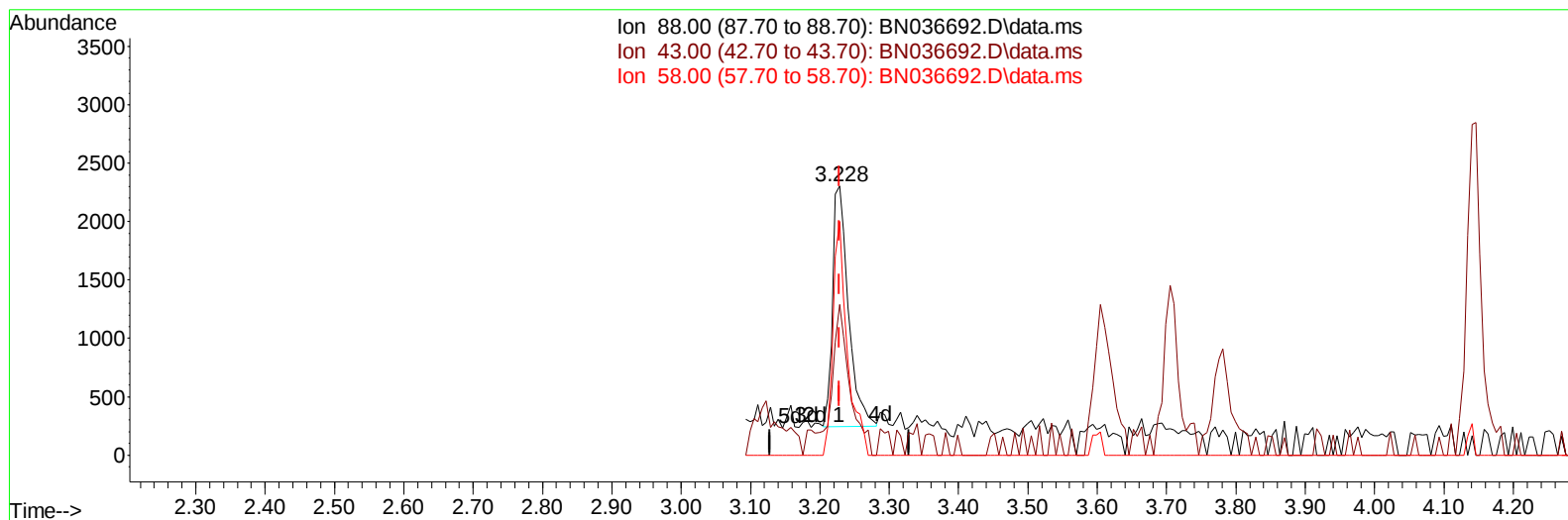


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN032025\  
Data File : BN036692.D  
Acq On : 20 Mar 2025 12:10  
Operator : RC/JU  
Sample : Q1546-05  
Misc : MDL-MED-SOIL 4 ppm  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 20 13:41:17 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN022825.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Mar 20 13:16:23 2025  
Response via : Initial Calibration



TIC: BN036692.D\data.ms

(2) 1,4-Dioxane

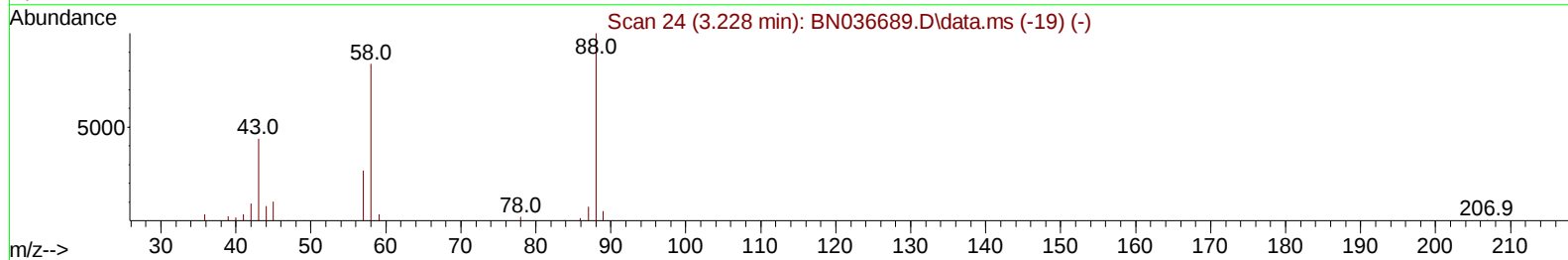
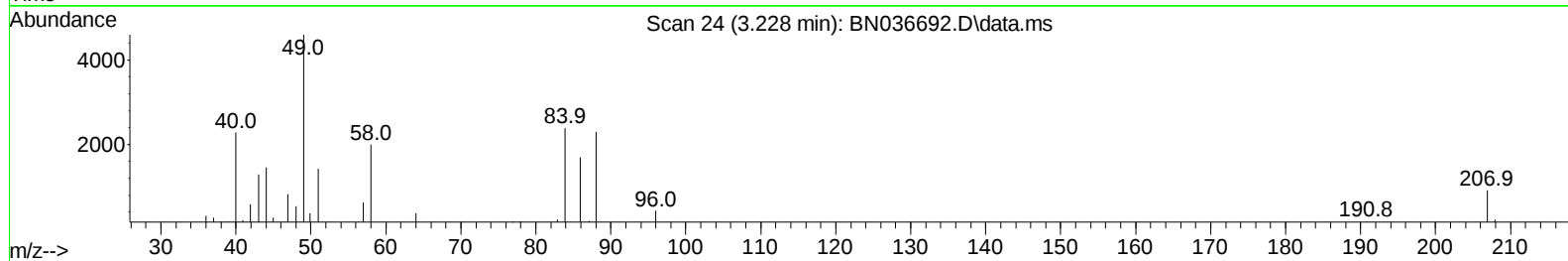
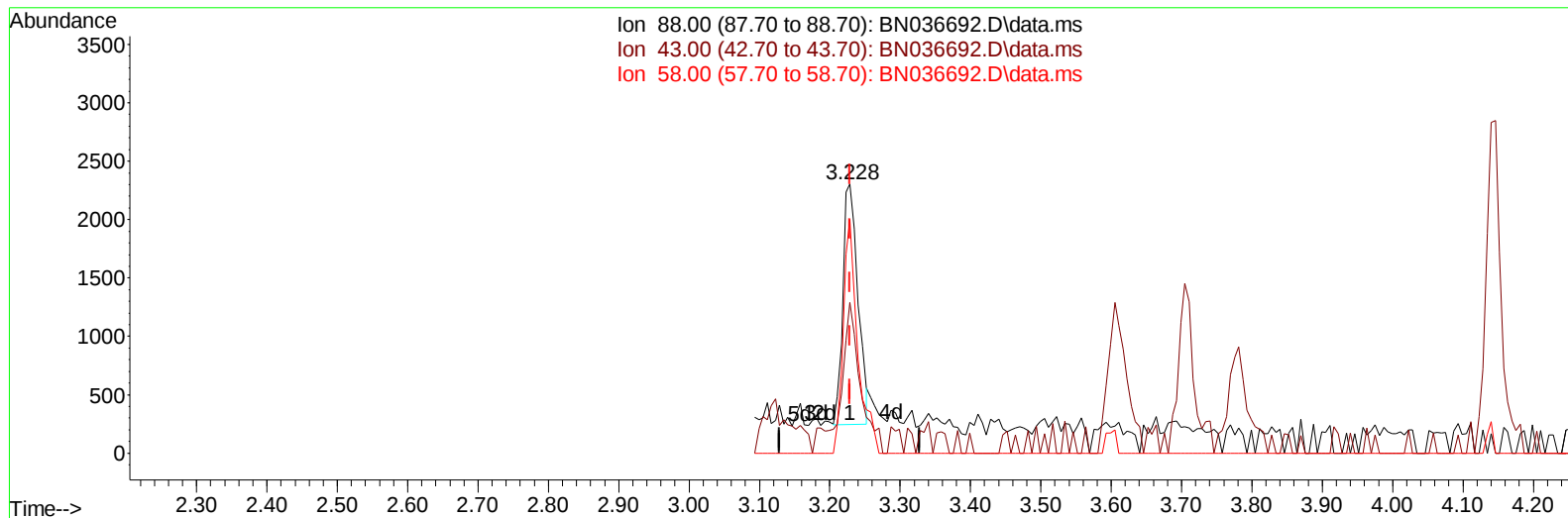
3.228min (+ 0.000) 1.44 ng/uL

response 3257

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 88.00 | 100.00 | 100.00 |
| 43.00 | 39.80  | 56.01# |
| 58.00 | 87.40  | 86.80  |
| 0.00  | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN032025\  
Data File : BN036692.D  
Acq On : 20 Mar 2025 12:10  
Operator : RC/JU  
Sample : Q1546-05  
Misc : MDL-MED-SOIL 4 ppm  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 20 13:41:17 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN022825.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Mar 20 13:16:23 2025  
Response via : Initial Calibration



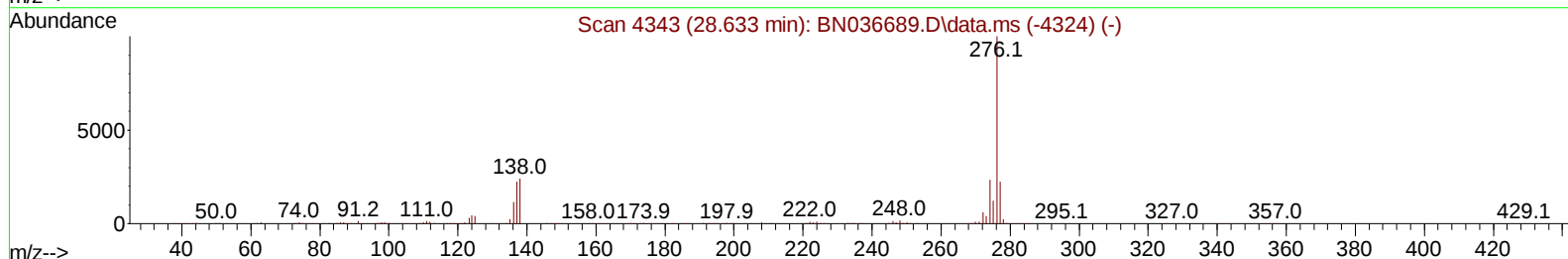
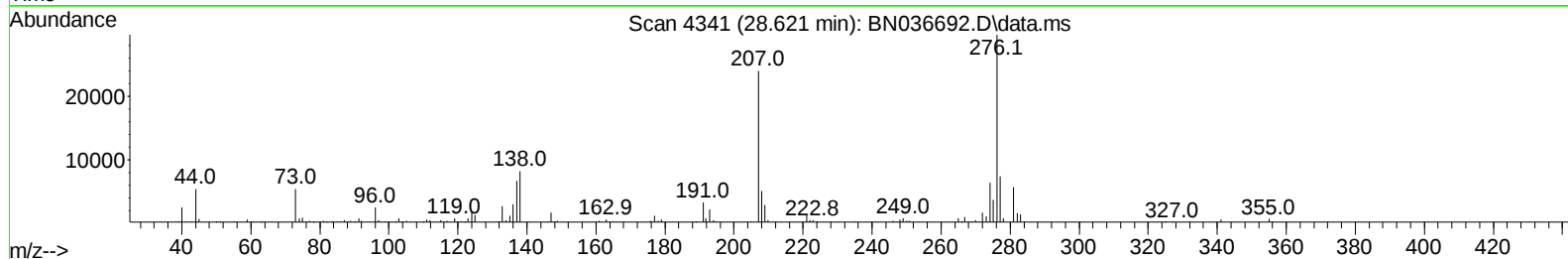
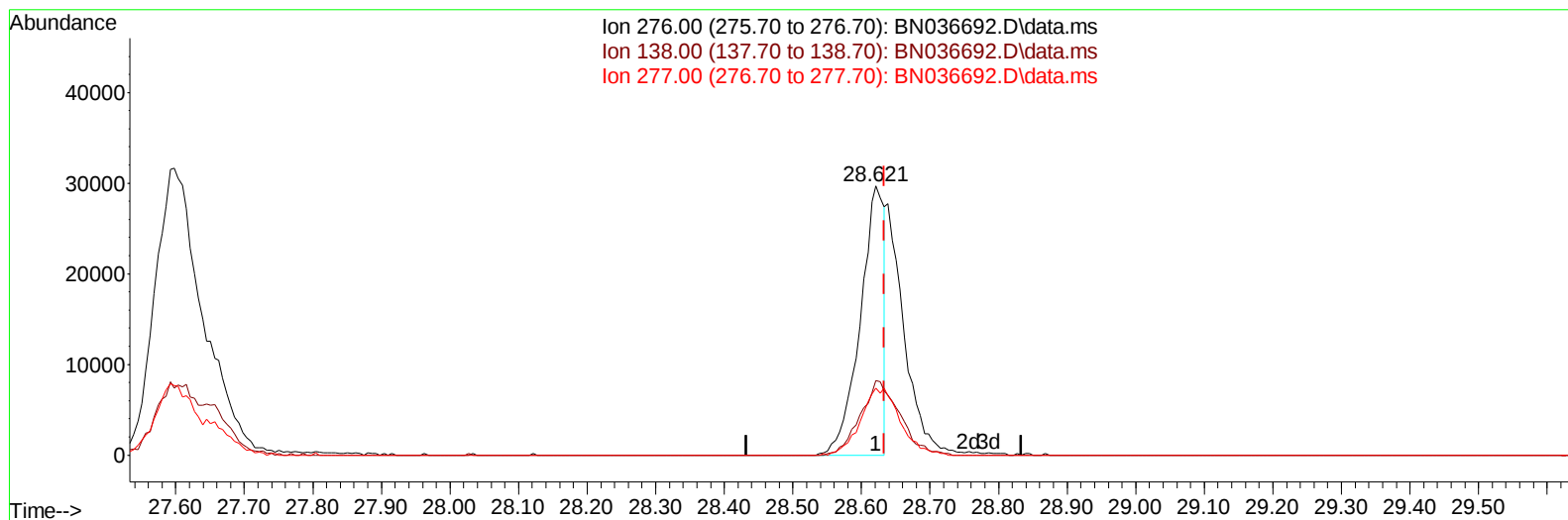
TIC: BN036692.D\data.ms

**(2) 1,4-Dioxane****3.228min (+ 0.000) 1.35 ng/uL m****response 3056**

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 88.00 | 100.00 | 100.00 |
| 43.00 | 39.80  | 56.01# |
| 58.00 | 87.40  | 86.80  |
| 0.00  | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN032025\  
Data File : BN036692.D  
Acq On : 20 Mar 2025 12:10  
Operator : RC/JU  
Sample : Q1546-05  
Misc : MDL-MED-SOIL 4 ppm  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 20 13:41:17 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN022825.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Mar 20 13:16:23 2025  
Response via : Initial Calibration



TIC: BN036692.D\data.ms

**(96) Benzo(g,h,i)perylene**

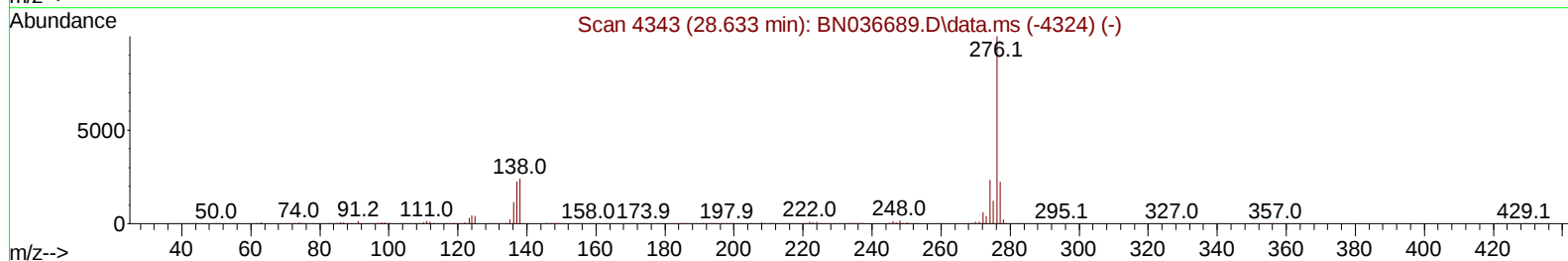
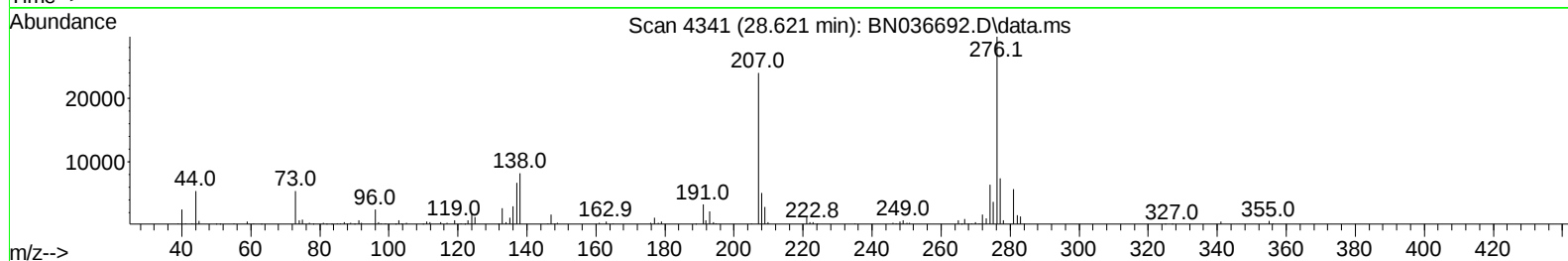
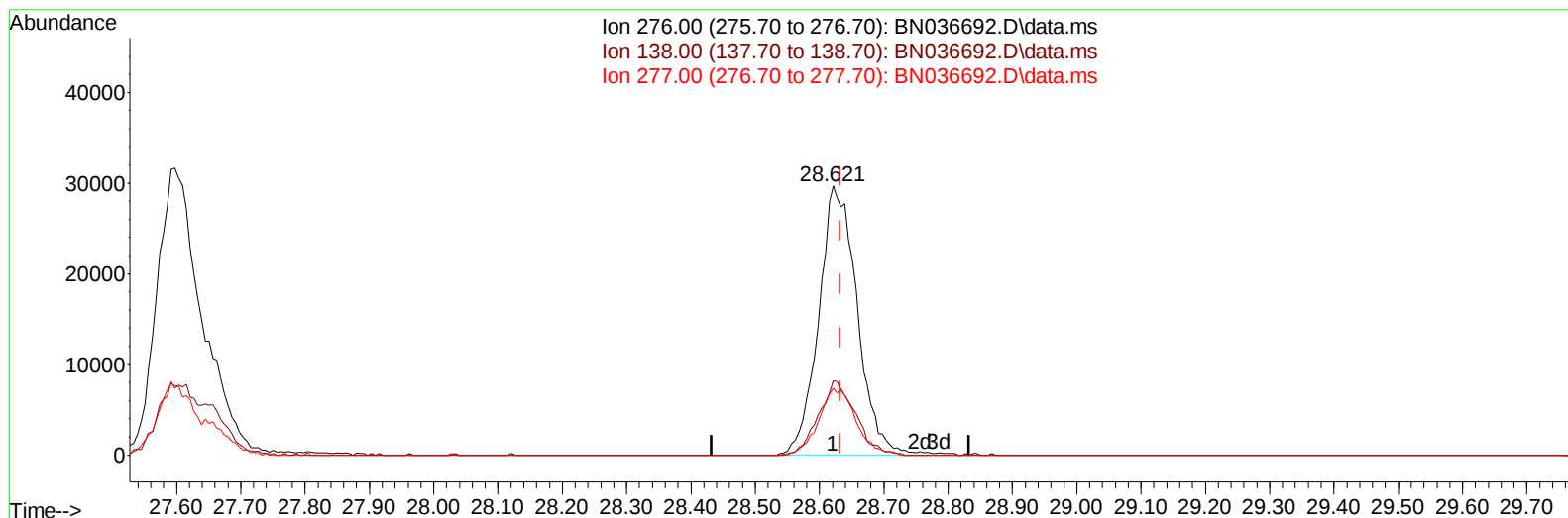
**28.621min (-0.012) 2.70 ng/u1**

**response 72349**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 24.80  | 27.62  |
| 277.00 | 23.30  | 24.97  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN032025\  
Data File : BN036692.D  
Acq On : 20 Mar 2025 12:10  
Operator : RC/JU  
Sample : Q1546-05  
Misc : MDL-MED-SOIL 4 ppm  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 20 13:41:17 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN022825.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Mar 20 13:16:23 2025  
Response via : Initial Calibration



TIC: BN036692.D\data.ms

**(96) Benzo(g,h,i)perylene**

**28.621min (-0.012) 4.58 ng/ul m**

**response 122994**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 24.80  | 27.62  |
| 277.00 | 23.30  | 24.97  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN032025\  
 Data File : BN036692.D  
 Acq On : 20 Mar 2025 12:10  
 Operator : RC/JU  
 Sample : Q1546-05  
 Misc : MDL-MED-SOIL 4 ppm  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 20 13:41:59 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN022825.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Mar 20 13:16:23 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.705  | 152  | 78497    | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.493 | 136  | 344319   | 20.000 | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.346 | 164  | 236254   | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.092 | 188  | 499833   | 20.000 | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 21.333 | 240  | 475140   | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 24.286 | 264  | 482414   | 20.000 | ng/ul  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.193  | 96   | 8683     | 4.300  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.599  | 84   | 152716   | 24.745 | ng/ul  | 0.00     |
| 7) Phenol-d5                  | 6.875  | 99   | 180480   | 24.073 | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.040  | 67   | 139081   | 26.075 | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.234  | 132  | 137759   | 26.131 | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.411  | 113  | 141086   | 22.791 | ng/ul  | 0.00     |
| 21) Nitrobenzene-d5           | 8.858  | 128  | 72770    | 26.737 | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.575  | 143  | 77553    | 26.970 | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.110 | 165  | 128318   | 24.603 | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.628 | 131  | 197156   | 24.479 | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.757 | 166  | 491050   | 27.638 | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.040 | 160  | 538141   | 27.114 | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.546 | 143  | 84784    | 24.090 | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.345 | 176  | 405429   | 27.054 | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.463 | 200  | 77927    | 22.783 | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.192 | 188  | 633912   | 25.772 | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 19.492 | 212  | 752023   | 28.972 | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.080 | 264  | 697996   | 29.038 | ng/ul  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.228  | 88   | 3056m    | 1.350  | ng/uL  |          |
| 5) Pyridine                   | 3.617  | 79   | 29378    | 4.563  | ng/ul# | 54       |
| 6) Benzaldehyde               | 6.846  | 77   | 23439    | 5.304  | ng/ul  | 96       |
| 8) Phenol                     | 6.899  | 94   | 35586    | 4.427  | ng/ul  | 96       |
| 10) Bis(2-Chloroethyl)ether   | 7.128  | 93   | 28948    | 4.612  | ng/ul  | 99       |
| 12) 2-Chlorophenol            | 7.269  | 128  | 25720    | 4.625  | ng/ul  | 96       |
| 13) 2-Methylphenol            | 8.146  | 108  | 21651    | 3.740  | ng/ul  | 94       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.222  | 45   | 58395    | 4.847  | ng/ul  | 99       |
| 16) Acetophenone              | 8.522  | 105  | 46437    | 4.413  | ng/ul  | 98       |
| 17) N-Nitroso-di-n-propyla... | 8.511  | 70   | 25535    | 4.321  | ng/ul  | 91       |
| 18) 4-Methylphenol            | 8.469  | 108  | 25383    | 3.839  | ng/ul  | 98       |
| 19) Hexachloroethane          | 8.775  | 117  | 12666    | 4.954  | ng/ul  | 95       |
| 22) Nitrobenzene              | 8.899  | 77   | 38964    | 4.733  | ng/ul  | 99       |
| 23) Isophorone                | 9.422  | 82   | 67139    | 4.379  | ng/ul  | 99       |
| 25) 2-Nitrophenol             | 9.605  | 139  | 14713    | 4.595  | ng/ul  | 92       |
| 26) 2,4-Dimethylphenol        | 9.669  | 107  | 15437    | 2.281  | ng/ul  | 94       |
| 27) Bis(2-Chloroethoxy)met... | 9.910  | 93   | 39773    | 4.601  | ng/ul  | 98       |
| 29) 2,4-Dichlorophenol        | 10.140 | 162  | 24245    | 4.532  | ng/ul  | 93       |
| 30) Naphthalene               | 10.540 | 128  | 92906    | 4.879  | ng/ul  | 100      |
| 32) 4-Chloroaniline           | 10.652 | 127  | 35279    | 4.526  | ng/ul  | 98       |
| 33) Hexachlorobutadiene       | 10.828 | 225  | 17160    | 4.870  | ng/ul  | 94       |
| 34) Caprolactam               | 11.440 | 113  | 8873     | 4.004  | ng/ul  | 96       |
| 35) 4-Chloro-3-methylphenol   | 11.781 | 107  | 26626    | 3.924  | ng/ul  | 95       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN032025\  
 Data File : BN036692.D  
 Acq On : 20 Mar 2025 12:10  
 Operator : RC/JU  
 Sample : Q1546-05  
 Misc : MDL-MED-SOIL 4 ppm  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 20 13:41:59 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN022825.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Mar 20 13:16:23 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 36) 2-Methylnaphthalene       | 12.157 | 142  | 61566    | 4.645 | ng/ul  | 99       |
| 37) 1-Methylnaphthalene       | 12.375 | 142  | 56672    | 4.240 | ng/ul  | 99       |
| 39) 1,2,4,5-Tetrachloroben... | 12.534 | 216  | 31985    | 4.828 | ng/ul  | 94       |
| 40) Hexachlorocyclopentadiene | 12.510 | 237  | 17834    | 4.561 | ng/ul  | 96       |
| 41) 2,4,6-Trichlorophenol     | 12.775 | 196  | 17554    | 4.028 | ng/ul  | 92       |
| 42) 2,4,5-Trichlorophenol     | 12.846 | 196  | 19911    | 4.170 | ng/ul  | 91       |
| 43) 1,1'-Biphenyl             | 13.181 | 154  | 85363    | 4.892 | ng/ul  | 98       |
| 44) 2-Chloronaphthalene       | 13.216 | 162  | 63904    | 4.723 | ng/ul  | 96       |
| 45) 2-Nitroaniline            | 13.422 | 65   | 20700    | 3.811 | ng/ul  | 94       |
| 47) Dimethylphthalate         | 13.804 | 163  | 86365    | 4.820 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 13.922 | 165  | 14119    | 4.036 | ng/ul  | 86       |
| 50) Acenaphthylene            | 14.069 | 152  | 103271   | 4.808 | ng/ul  | 97       |
| 51) 3-Nitroaniline            | 14.251 | 138  | 13234    | 3.503 | ng/ul  | 94       |
| 52) Acenaphthene              | 14.410 | 153  | 74074    | 4.783 | ng/ul  | 93       |
| 53) 2,4-Dinitrophenol         | 14.463 | 184  | 10621    | 4.416 | ng/ul  | 94       |
| 55) 4-Nitrophenol             | 14.563 | 109  | 16053    | 4.633 | ng/ul  | 97       |
| 56) Dibenzofuran              | 14.746 | 168  | 101068   | 4.736 | ng/ul  | 99       |
| 57) 2,4-Dinitrotoluene        | 14.716 | 165  | 22727    | 4.243 | ng/ul  | 97       |
| 58) 2,3,4,6-Tetrachlorophenol | 14.975 | 232  | 17074    | 4.278 | ng/ul  | 95       |
| 59) Diethylphthalate          | 15.175 | 149  | 88924    | 4.778 | ng/ul  | 99       |
| 61) Fluorene                  | 15.398 | 166  | 85475    | 4.846 | ng/ul  | 93       |
| 62) 4-Chlorophenyl-phenyle... | 15.398 | 204  | 40789    | 4.849 | ng/ul  | 99       |
| 63) 4-Nitroaniline            | 15.416 | 138  | 12954    | 3.485 | ng/ul  | 91       |
| 66) 4,6-Dinitro-2-methylph... | 15.475 | 198  | 19065    | 5.185 | ng/ul# | 82       |
| 67) N-Nitrosodiphenylamine    | 15.610 | 169  | 69509    | 4.553 | ng/ul  | 96       |
| 68) 4-Bromophenyl-phenylether | 16.287 | 248  | 22071    | 4.554 | ng/ul  | 98       |
| 69) Hexachlorobenzene         | 16.398 | 284  | 23960    | 4.438 | ng/ul  | 91       |
| 70) Atrazine                  | 16.563 | 200  | 27515    | 4.845 | ng/ul  | 94       |
| 71) Pentachlorophenol         | 16.745 | 266  | 17809    | 4.773 | ng/ul  | 97       |
| 72) Phenanthrene              | 17.134 | 178  | 136481   | 4.715 | ng/ul  | 98       |
| 74) Anthracene                | 17.228 | 178  | 133081   | 4.515 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 13.140 | 216  | 29493    | 4.312 | ng/uL  | 90       |
| 76) Pentachlorobenzene        | 14.669 | 250  | 28133    | 4.085 | ng/uL  | 91       |
| 77) Carbazole                 | 17.498 | 167  | 112137   | 4.233 | ng/ul  | 98       |
| 78) Di-n-butylphthalate       | 18.069 | 149  | 140560   | 4.267 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.157 | 202  | 153766   | 5.062 | ng/ul  | 99       |
| 82) Pyrene                    | 19.516 | 202  | 173058   | 5.234 | ng/ul  | 99       |
| 83) Butylbenzylphthalate      | 20.428 | 149  | 59526    | 4.365 | ng/ul  | 97       |
| 84) 3,3'-Dichlorobenzidine    | 21.239 | 252  | 36898    | 4.218 | ng/ul# | 95       |
| 85) Benzo(a)anthracene        | 21.316 | 228  | 163274   | 4.988 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.245 | 149  | 95262    | 4.809 | ng/ul  | 98       |
| 87) Chrysene                  | 21.375 | 228  | 152401   | 4.837 | ng/ul  | 97       |
| 89) Di-n-octyl phthalate      | 22.363 | 149  | 132209   | 4.075 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.345 | 252  | 145495   | 4.920 | ng/ul  | 97       |
| 91) Benzo(k)fluoranthene      | 23.416 | 252  | 145043   | 4.860 | ng/ul  | 95       |
| 93) Benzo(a)pyrene            | 24.145 | 252  | 132277   | 4.686 | ng/ul  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 27.598 | 276  | 154185   | 4.474 | ng/ul  | 97       |
| 95) Dibenzo(a,h)anthracene    | 27.651 | 278  | 125759   | 4.577 | ng/ul  | 98       |
| 96) Benzo(g,h,i)perylene      | 28.621 | 276  | 122994m  | 4.583 | ng/ul  |          |

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



[illegible]