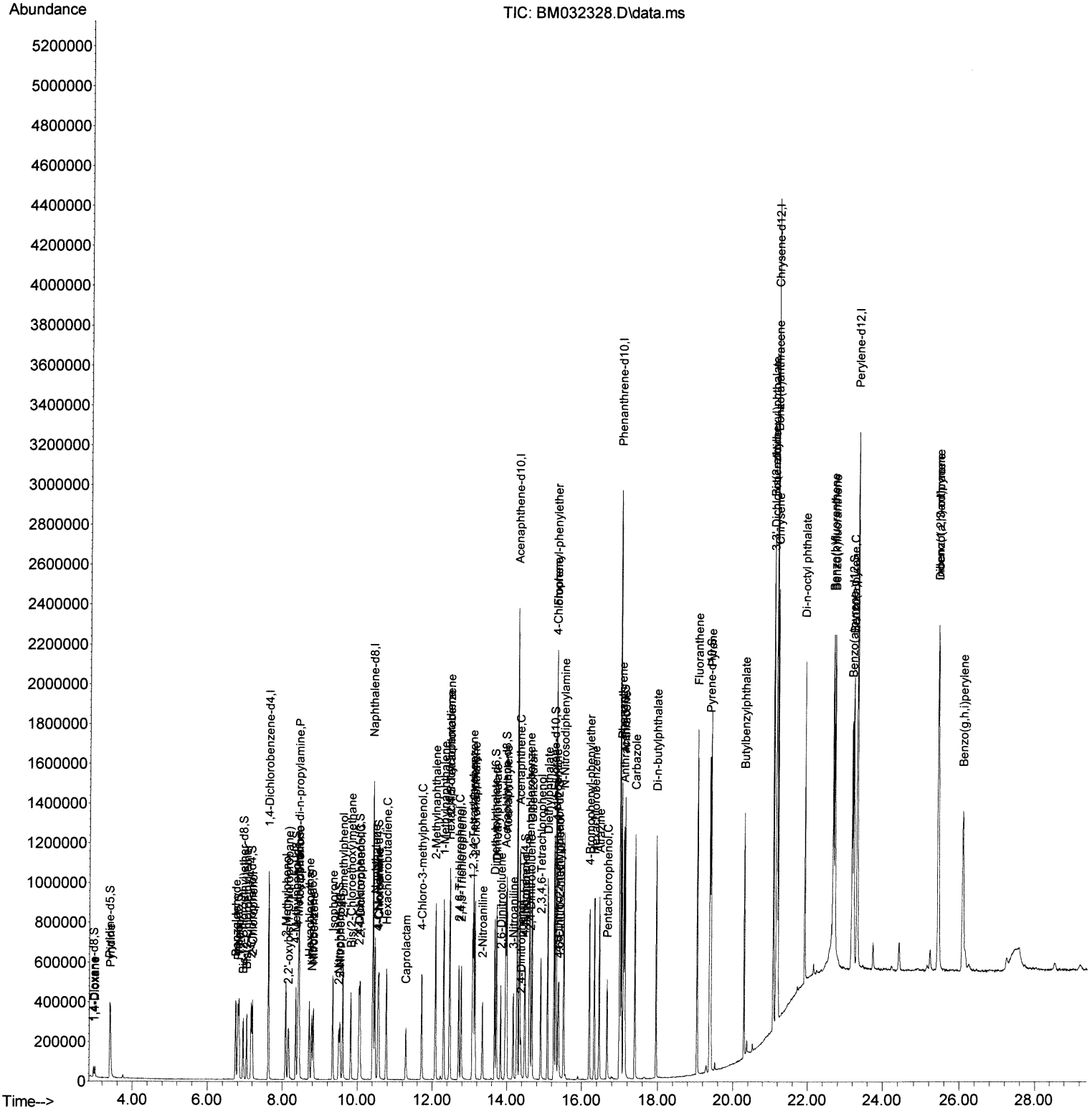
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM100521\
Data File : BM032328.D
Acq On : 05 Oct 2021 12:15
Operator : CG/JU
Sample : SSTD01047
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 05 13:38:16 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM100521.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Oct 05 13:36:11 2021
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
SSTD010047

**Manual Integrations APPROVED**
mohammad
10/8/2021 8:33:30 AM



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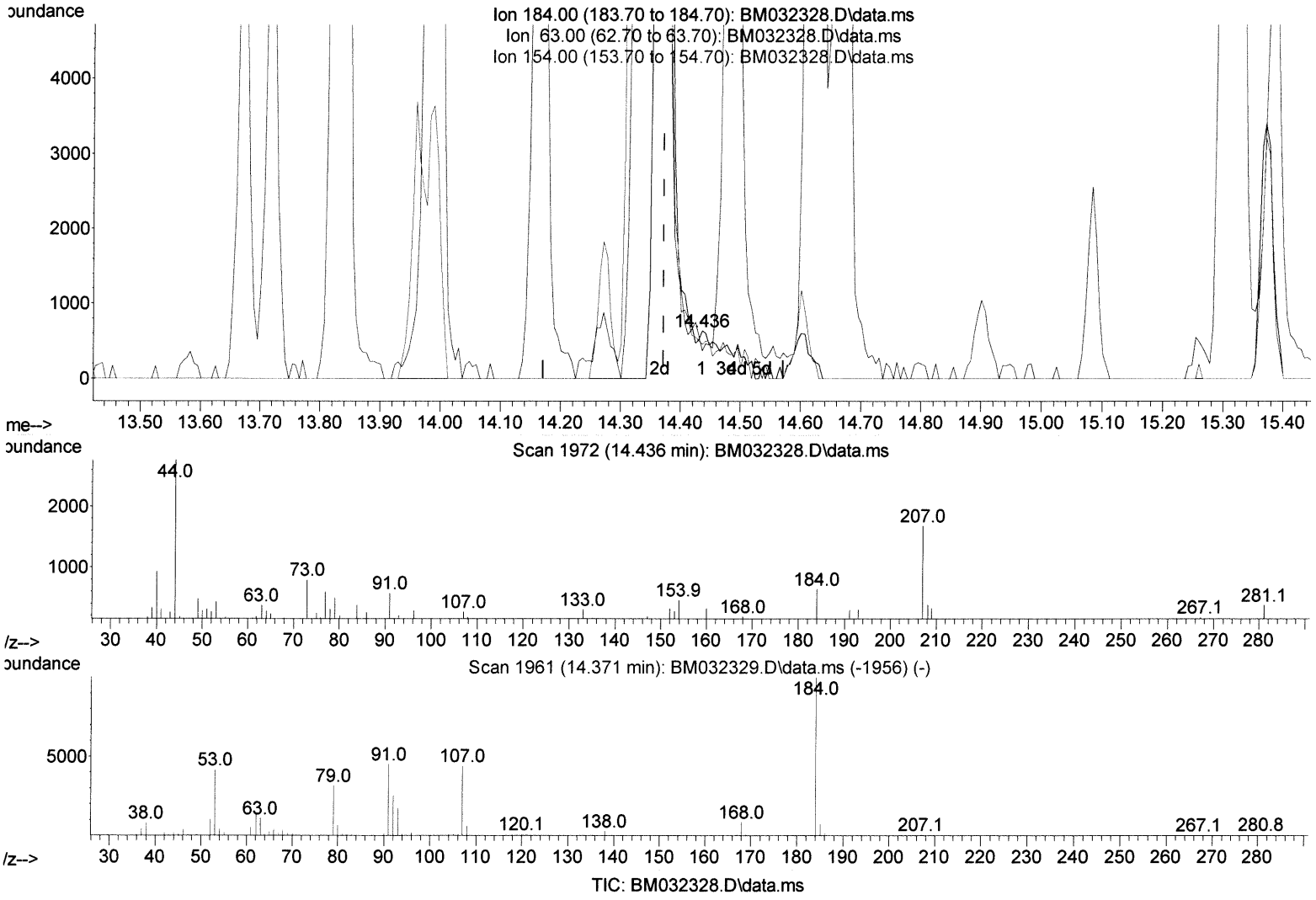


(53) 2,4-Dinitrophenol

14.436min (+ 0.065) 0.17 ng/ul

response 775

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 63.00 | 63.20 | 58.61 |
| 154.00 | 63.40 | 71.88 |
| 0.00 | 0.00 | 0.00 |

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**Instrument :**
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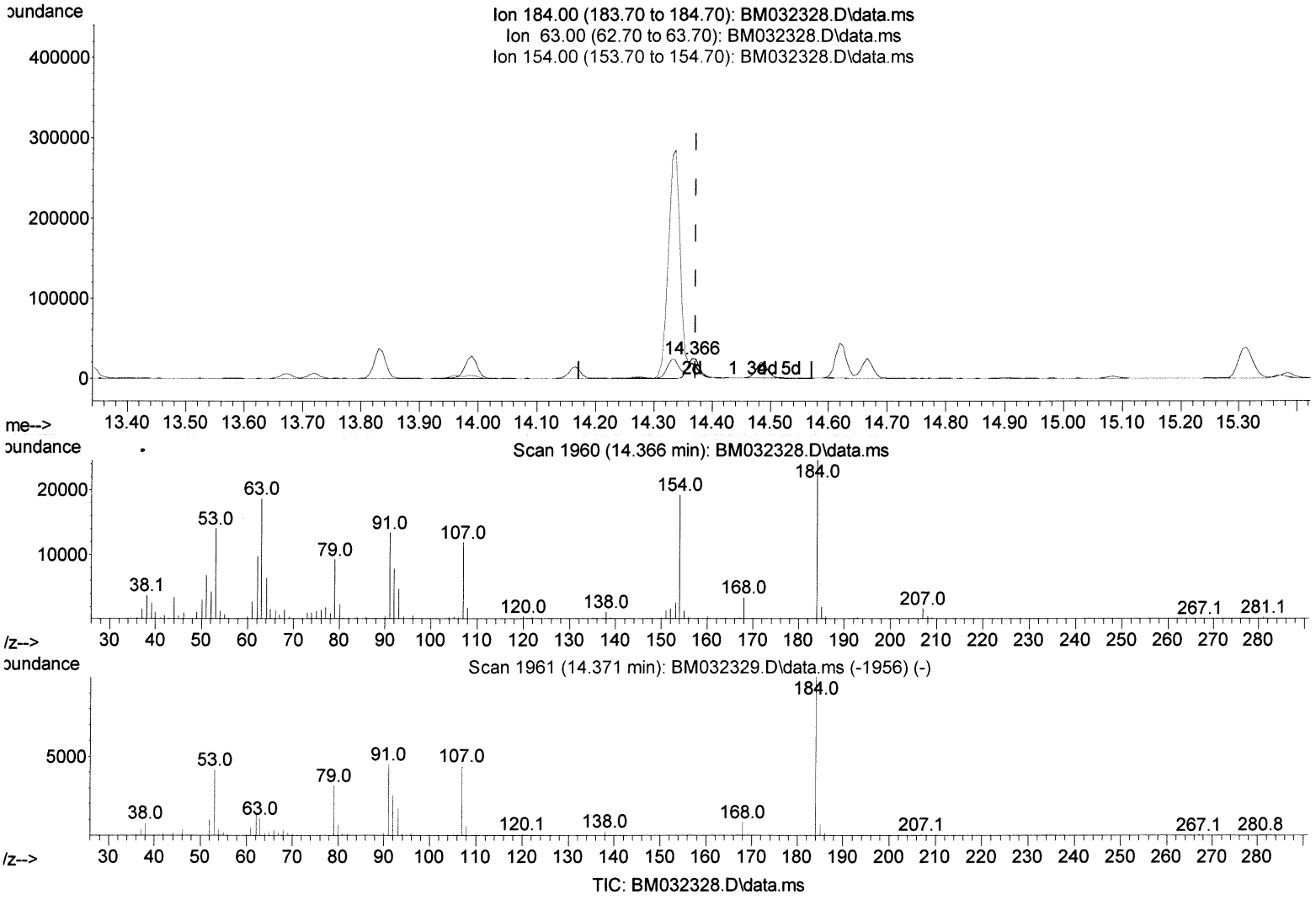
mohammad
10/8/2021 8:33:30 AM




(53) 2,4-Dinitrophenol

14.366min (-0.006) 7.93 ng/ul m

response 36952

JY 10/12/21

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 63.00 | 63.20 | 75.90# |
| 154.00 | 63.40 | 78.22# |
| 0.00 | 0.00 | 0.00 |

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ALS Vial : 3 Sample Multiplier: 1

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**Instrument :**
BNA_M
**ClientSampleId :**
SSTD010047

**Manual Integrations APPROVED**
mohammad
10/8/2021 8:33:30 AM

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 7.625 | 152 | 278637 | 20.000 | ng/ul | 0.00 |
| 20) Naphthalene-d8 | 10.413 | 136 | 1182439 | 20.000 | ng/ul | 0.00 |
| 38) Acenaphthene-d10 | 14.272 | 164 | 792082 | 20.000 | ng/ul | 0.00 |
| 64) Phenanthrene-d10 | 16.995 | 188 | 1657154 | 20.000 | ng/ul | 0.00 |
| 79) Chrysene-d12 | 21.159 | 240 | 1636167 | 20.000 | ng/ul | 0.00 |
| 88) Perylene-d12 | 23.306 | 264 | 1678167 | 20.000 | ng/ul | 0.00 |
| System Monitoring Compounds | | | | | | |
| 3) 1,4-Dioxane-d8 | 2.961 | 96 | 26057 | 3.949 | ng/uL | 0.00 |
| 4) Pyridine-d5 | 3.390 | 84 | 177047 | 9.451 | ng/ul | 0.00 |
| 7) Phenol-d5 | 6.807 | 99 | 205555 | 9.294 | ng/ul | 0.00 |
| 9) Bis-(2-Chloroethyl)eth... | 6.948 | 67 | 126297 | 9.497 | ng/ul | 0.00 |
| 11) 2-Chlorophenol-d4 | 7.160 | 132 | 164411 | 9.575 | ng/ul | 0.00 |
| 15) 4-Methylphenol-d8 | 8.348 | 113 | 164484 | 9.511 | ng/ul | 0.00 |
| 21) Nitrobenzene-d5 | 8.778 | 128 | 72607 | 10.281 | ng/ul | 0.00 |
| 24) 2-Nitrophenol-d4 | 9.501 | 143 | 75084 | 10.054 | ng/ul | 0.00 |
| 28) 2,4-Dichlorophenol-d3 | 10.042 | 165 | 163348 | 9.568 | ng/ul | 0.00 |
| 31) 4-Chloroaniline-d4 | 10.548 | 131 | 234305 | 10.155 | ng/ul | 0.00 |
| 46) Dimethylphthalate-d6 | 13.672 | 166 | 514241 | 9.992 | ng/ul | 0.00 |
| 49) Acenaphthylene-d8 | 13.960 | 160 | 619512 | 9.475 | ng/ul | 0.00 |
| 54) 4-Nitrophenol-d4 | 14.472 | 143 | 82664 | 9.874 | ng/ul | 0.00 |
| 60) Fluorene-d10 | 15.260 | 176 | 447469 | 10.190 | ng/ul | 0.00 |
| 65) 4,6-Dinitro-2-methylph... | 15.371 | 200 | 66032 | 8.432 | ng/ul | 0.00 |
| 73) Anthracene-d10 | 17.095 | 188 | 694572 | 10.045 | ng/ul | 0.00 |
| 81) Pyrene-d10 | 19.377 | 212 | 777350 | 9.030 | ng/ul | 0.00 |
| 92) Benzo(a)pyrene-d12 | 23.171 | 264 | 807608 | 10.254 | ng/ul | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.002 | 88 | 28827 | 3.976 | ng/uL | 96 |
| 5) Pyridine | 3.413 | 79 | 177158 | 9.538 | ng/ul | 96 |
| 6) Benzaldehyde | 6.748 | 77 | 131152 | 10.525 | ng/ul | 98 |
| 8) Phenol | 6.837 | 94 | 213233 | 9.510 | ng/ul | 99 |
| 10) Bis(2-Chloroethyl)ether | 7.043 | 93 | 175209 | 9.807 | ng/ul | 100 |
| 12) 2-Chlorophenol | 7.196 | 128 | 173032 | 9.660 | ng/ul | 98 |
| 13) 2-Methylphenol | 8.084 | 108 | 159533 | 9.401 | ng/ul | 100 |
| 14) 2,2'-oxybis(1-Chloropr... | 8.154 | 45 | 216239 | 8.794 | ng/ul | 100 |
| 16) Acetophenone | 8.443 | 105 | 269533 | 10.282 | ng/ul | 99 |
| 17) N-Nitroso-di-n-propyla... | 8.431 | 70 | 130169 | 9.736 | ng/ul | 98 |
| 18) 4-Methylphenol | 8.413 | 108 | 176156 | 9.876 | ng/ul | 98 |
| 19) Hexachloroethane | 8.713 | 117 | 68004 | 9.250 | ng/ul | 97 |
| 22) Nitrobenzene | 8.819 | 77 | 183633 | 10.081 | ng/ul | 98 |
| 23) Isophorone | 9.337 | 82 | 346737 | 9.144 | ng/ul | 99 |
| 25) 2-Nitrophenol | 9.531 | 139 | 86299 | 10.116 | ng/ul | 98 |
| 26) 2,4-Dimethylphenol | 9.607 | 107 | 196430 | 9.668 | ng/ul | 99 |
| 27) Bis(2-Chloroethoxy)met... | 9.825 | 93 | 240507 | 9.922 | ng/ul | 98 |
| 29) 2,4-Dichlorophenol | 10.072 | 162 | 162007 | 9.647 | ng/ul | 98 |
| 30) Naphthalene | 10.466 | 128 | 580433 | 10.000 | ng/ul | 99 |
| 32) 4-Chloroaniline | 10.572 | 127 | 240557 | 10.220 | ng/ul | 99 |
| 33) Hexachlorobutadiene | 10.772 | 225 | 107345 | 9.298 | ng/ul | 99 |
| 34) Caprolactam | 11.289 | 113 | 47592 | 9.291 | ng/ul | 98 |
| 35) 4-Chloro-3-methylphenol | 11.707 | 107 | 176780 | 9.773 | ng/ul | 99 |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) 2-Methylnaphthalene | 12.078 | 142 | 397549 | 10.203 | ng/ul | 100 |
| 37) 1-Methylnaphthalene | 12.301 | 142 | 406534 | 10.251 | ng/ul | 100 |
| 39) 1,2,4,5-Tetrachloroben... | 12.460 | 216 | 210313 | 9.302 | ng/ul | 99 |
| 40) Hexachlorocyclopentadiene | 12.454 | 237 | 108207 | 8.930 | ng/ul | 98 |
| 41) 2,4,6-Trichlorophenol | 12.701 | 196 | 124933 | 8.834 | ng/ul | 99 |
| 42) 2,4,5-Trichlorophenol | 12.772 | 196 | 140237 | 9.341 | ng/ul | 100 |
| 43) 1,1'-Biphenyl | 13.101 | 154 | 551035 | 9.823 | ng/ul | 100 |
| 44) 2-Chloronaphthalene | 13.136 | 162 | 412152 | 9.739 | ng/ul | 98 |
| 45) 2-Nitroaniline | 13.342 | 65 | 95901 | 10.025 | ng/ul | 94 |
| 47) Dimethylphthalate | 13.719 | 163 | 518906 | 10.107 | ng/ul | 100 |
| 48) 2,6-Dinitrotoluene | 13.836 | 165 | 84861 | 9.954 | ng/ul | 95 |
| 50) Acenaphthylene | 13.989 | 152 | 672309 | 9.790 | ng/ul | 99 |
| 51) 3-Nitroaniline | 14.166 | 138 | 94259 | 10.110 | ng/ul | 100 |
| 52) Acenaphthene | 14.336 | 153 | 448773 | 10.046 | ng/ul | 99 |
| 53) 2,4-Dinitrophenol | 14.366 | 184 | 36952m | 7.929 | ng/ul | |
| 55) 4-Nitrophenol | 14.483 | 109 | 70977 | 10.394 | ng/ul | 97 |
| 56) Dibenzofuran | 14.666 | 168 | 656013 | 10.231 | ng/ul | 100 |
| 57) 2,4-Dinitrotoluene | 14.624 | 165 | 130775 | 10.997 | ng/ul | 99 |
| 58) 2,3,4,6-Tetrachlorophenol | 14.901 | 232 | 109795 | 8.965 | ng/ul | 99 |
| 59) Diethylphthalate | 15.083 | 149 | 516447 | 10.290 | ng/ul | 99 |
| 61) Fluorene | 15.313 | 166 | 521984 | 10.492 | ng/ul | 98 |
| 62) 4-Chlorophenyl-phenyle... | 15.307 | 204 | 265547 | 10.556 | ng/ul | 99 |
| 63) 4-Nitroaniline | 15.324 | 138 | 94620 | 11.578 | ng/ul | 98 |
| 66) 4,6-Dinitro-2-methylph... | 15.389 | 198 | 67618 | 8.747 | ng/ul | 99 |
| 67) N-Nitrosodiphenylamine | 15.519 | 169 | 447293 | 9.685 | ng/ul | 99 |
| 68) 4-Bromophenyl-phenylether | 16.195 | 248 | 152341 | 9.627 | ng/ul | 98 |
| 69) Hexachlorobenzene | 16.330 | 284 | 175341 | 9.115 | ng/ul | 99 |
| 70) Atrazine | 16.460 | 200 | 155791 | 9.542 | ng/ul | 99 |
| 71) Pentachlorophenol | 16.666 | 266 | 83325 | 7.541 | ng/ul | 100 |
| 72) Phenanthrene | 17.036 | 178 | 839518 | 10.147 | ng/ul | 99 |
| 74) Anthracene | 17.124 | 178 | 848485 | 10.233 | ng/ul | 99 |
| 75) 1,2,3,4-Tetrachloroben... | 13.072 | 216 | 221419 | 8.668 | ng/uL | 99 |
| 76) Pentachlorobenzene | 14.601 | 250 | 222685 | 9.003 | ng/uL | 99 |
| 77) Carbazole | 17.395 | 167 | 748520 | 10.672 | ng/ul | 98 |
| 78) Di-n-butylphthalate | 17.954 | 149 | 819914 | 10.175 | ng/ul | 99 |
| 80) Fluoranthene | 19.048 | 202 | 974651 | 9.123 | ng/ul | 100 |
| 82) Pyrene | 19.407 | 202 | 1024288 | 9.350 | ng/ul | 98 |
| 83) Butylbenzylphthalate | 20.301 | 149 | 338338 | 10.740 | ng/ul | 99 |
| 84) 3,3'-Dichlorobenzidine | 21.077 | 252 | 325703 | 12.003 | ng/ul | 98 |
| 85) Benzo(a)anthracene | 21.148 | 228 | 949477 | 10.300 | ng/ul | 99 |
| 86) Bis(2-ethylhexyl)phtha... | 21.071 | 149 | 496033 | 10.636 | ng/ul | 100 |
| 87) Chrysene | 21.195 | 228 | 961264 | 10.348 | ng/ul | 100 |
| 89) Di-n-octyl phthalate | 21.912 | 149 | 846161 | 9.923 | ng/ul | 100 |
| 90) Benzo(b)fluoranthene | 22.665 | 252 | 1000335 | 10.093 | ng/ul | 99 |
| 91) Benzo(k)fluoranthene | 22.706 | 252 | 929111 | 9.892 | ng/ul | 100 |
| 93) Benzo(a)pyrene | 23.212 | 252 | 951854 | 10.171 | ng/ul | 99 |
| 94) Indeno(1,2,3-cd)pyrene | 25.430 | 276 | 1040336 | 10.907 | ng/ul | 99 |
| 95) Dibenzo(a,h)anthracene | 25.430 | 278 | 904982 | 11.440 | ng/ul | 99 |
| 96) Benzo(g,h,i)perylene | 26.083 | 276 | 888280 | 10.507 | ng/ul | 98 |

JU 10/12/21

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