

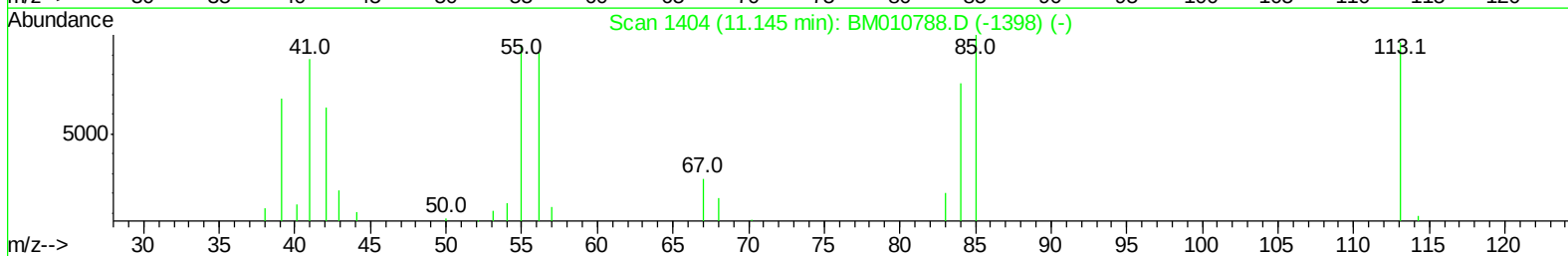
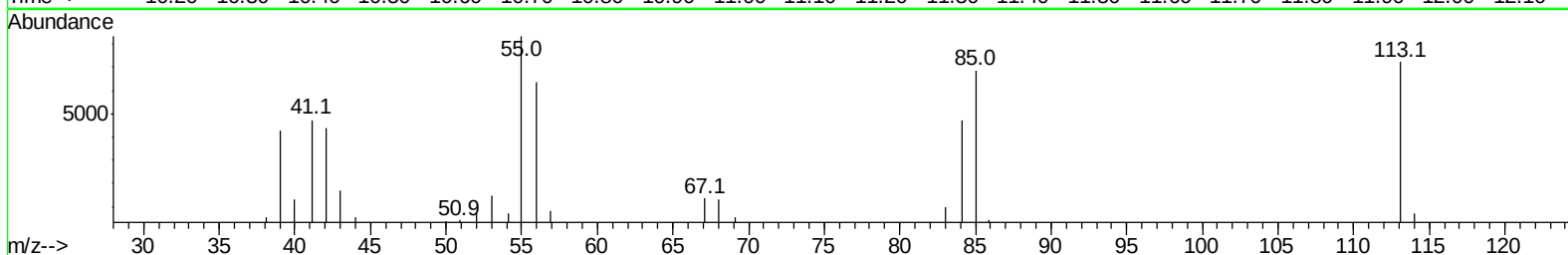
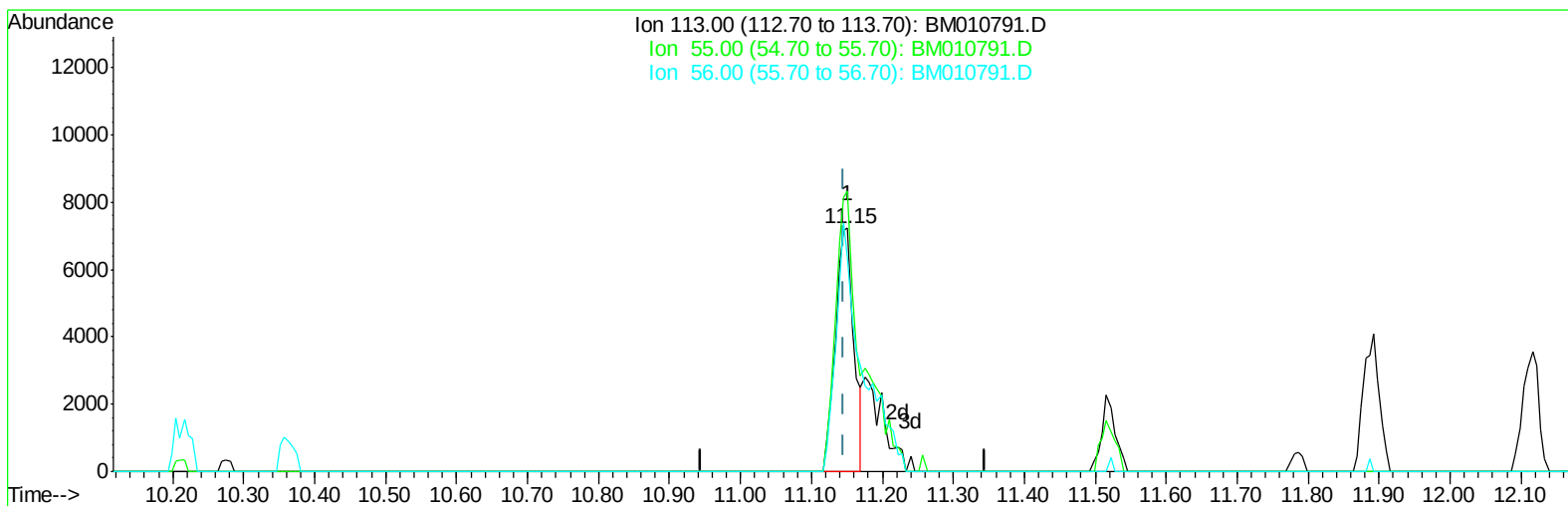
Data Path : Z:\HPCHEM1\BNA M\DATA\BM071117\  
 Data File : BM010791.D  
 Acq On : 11 Jul 2017 14:28  
 Operator : SJ/JU  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 LabSampleId :  
 SSTD02013

Manual Integrations  
 APPROVED

mohammad  
 7/12/2017 4:59:39 PM

Quant Time: Jul 12 01:55:27 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM062017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jul 12 01:54:55 2017  
 Response via : Initial Calibration



TIC: BM010791.D

(32) Caprolactam

11.151min (+0.006) 12.49ng/ul

response 13108

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100    | 100    |
| 55.00  | 118.50 | 115.24 |
| 56.00  | 107.50 | 87.94  |
| 0.00   | 0.00   | 0.00   |

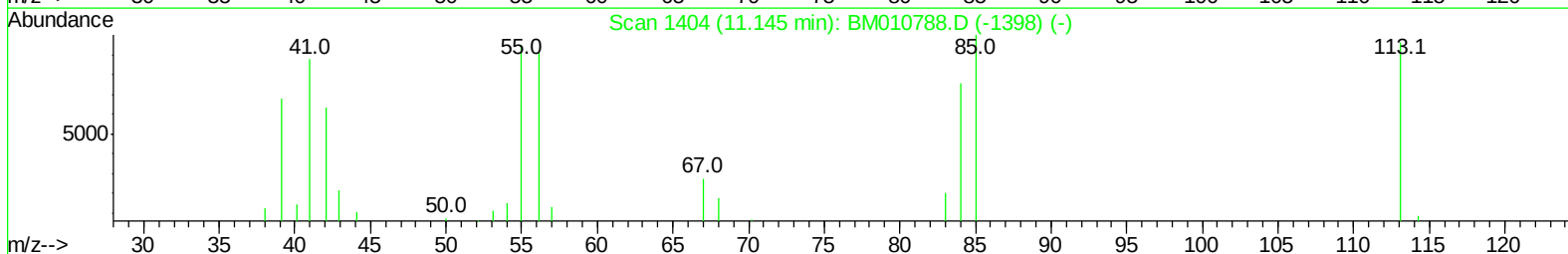
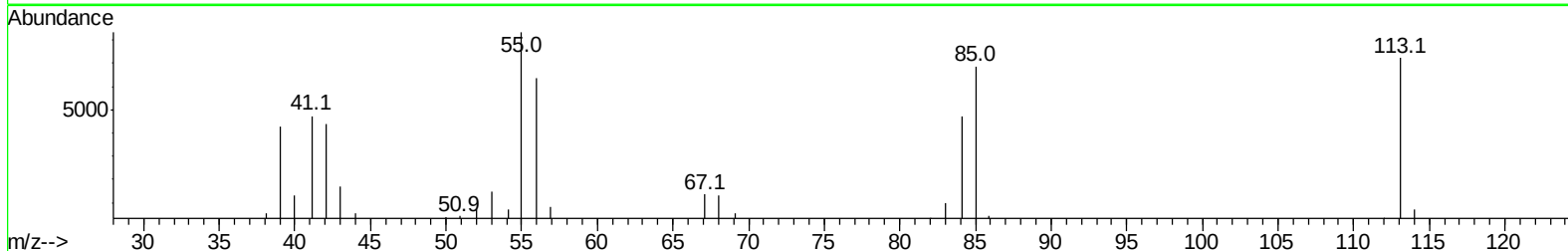
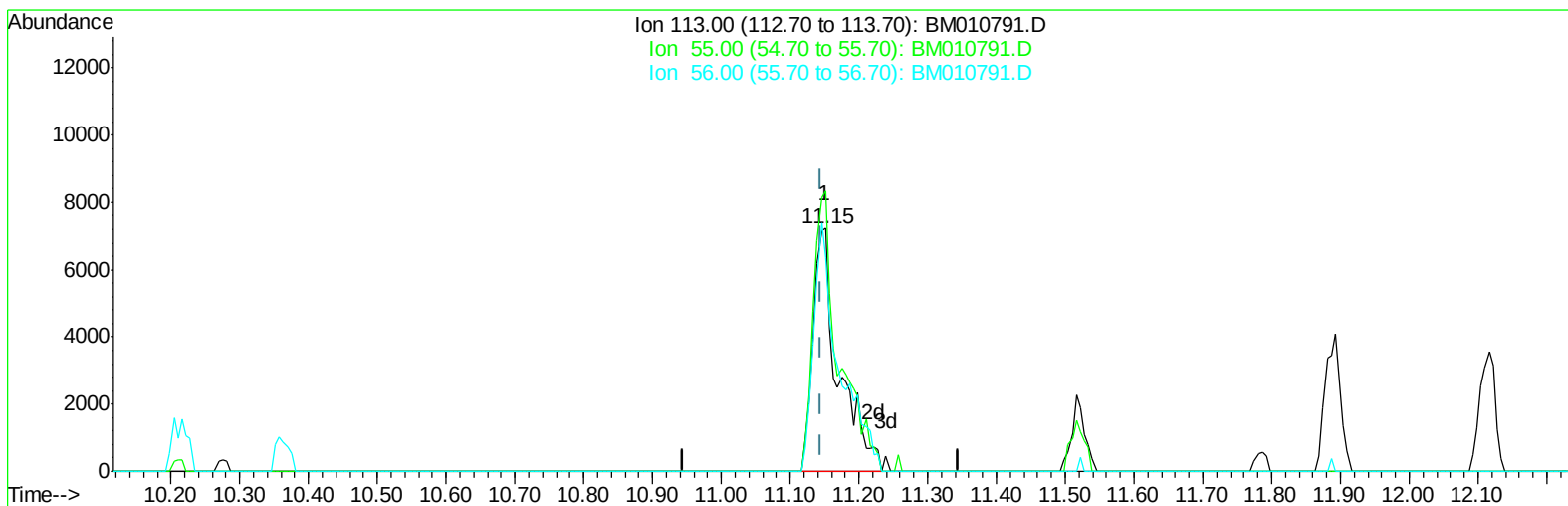
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Manual Integrations  
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Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jul 12 01:54:55 2017  
Response via : Initial Calibration



TIC: BM010791.D

(32) Caprolactam

11.151min (+0.006) 17.75ng/ul m

response 18628

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100    | 100    |
| 55.00  | 118.50 | 115.24 |
| 56.00  | 107.50 | 87.94  |
| 0.00   | 0.00   | 0.00   |

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 Operator : SJ/JU  
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 Misc :  
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Instrument :  
 BNA\_M  
 LabSampleId :  
 SSTD02013

Manual Integrations  
 APPROVED

mohammad  
 7/12/2017 4:59:39 PM

Quant Time: Jul 12 02:04:51 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM062017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jul 12 01:54:55 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.46  | 152  | 39724    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.22 | 136  | 177540   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.10 | 164  | 144299   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.86 | 188  | 397183   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.07 | 240  | 459222   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.21 | 264  | 384007   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.07  | 96  | 6487   | 9.36  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.64  | 99  | 66260  | 17.51 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.81  | 67  | 42012  | 19.45 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.99  | 132 | 48343  | 18.21 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.16  | 113 | 54971  | 17.52 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.60  | 128 | 26007  | 20.54 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.31  | 143 | 29323  | 20.10 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.85  | 165 | 66423  | 21.62 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.36 | 131 | 77393  | 23.91 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.53 | 166 | 236181 | 18.65 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.79 | 160 | 284048 | 19.28 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.32 | 143 | 38908  | 17.45 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.11 | 176 | 223749 | 20.43 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.24 | 200 | 46555  | 19.08 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 16.96 | 188 | 392802 | 20.48 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.27 | 212 | 490370 | 22.99 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.08 | 264 | 366993 | 19.77 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |        | Ovalue |    |
|--------------------------------|-------|-----|--------|--------|--------|----|
| 2) 1,4-Dioxane                 | 3.10  | 88  | 7786   | 10.054 | ng/uL# | 64 |
| 4) Benzaldehyde                | 6.61  | 77  | 50754  | 22.789 | ng/ul  | 96 |
| 6) Phenol                      | 6.67  | 94  | 71553  | 18.358 | ng/ul  | 97 |
| 8) Bis(2-Chloroethyl)ether     | 6.90  | 93  | 51534  | 18.161 | ng/ul  | 96 |
| 10) 2-Chlorophenol             | 7.02  | 128 | 51134  | 19.270 | ng/ul  | 96 |
| 11) 2-Methylphenol             | 7.90  | 108 | 56016  | 18.856 | ng/ul  | 85 |
| 12) 2,2'-oxybis(1-Chloropropan | 7.99  | 45  | 34724  | 17.530 | ng/ul# | 94 |
| 14) Acetophenone               | 8.27  | 105 | 96019  | 18.744 | ng/ul  | 96 |
| 15) N-Nitroso-di-n-propylamine | 8.26  | 70  | 53926  | 19.535 | ng/ul# | 88 |
| 16) 4-Methylphenol             | 8.23  | 108 | 60887  | 18.628 | ng/ul  | 94 |
| 17) Hexachloroethane           | 8.52  | 117 | 26825  | 22.734 | ng/ul# | 73 |
| 20) Nitrobenzene               | 8.64  | 77  | 83020  | 22.463 | ng/ul  | 93 |
| 21) Isophorone                 | 9.16  | 82  | 136682 | 18.607 | ng/ul  | 98 |
| 23) 2-Nitrophenol              | 9.35  | 139 | 31850  | 20.577 | ng/ul# | 88 |
| 24) 2,4-Dimethylphenol         | 9.42  | 107 | 81148  | 20.612 | ng/ul  | 98 |
| 25) Bis(2-Chloroethoxy)methane | 9.65  | 93  | 77263  | 18.967 | ng/ul  | 94 |
| 27) 2,4-Dichlorophenol         | 9.87  | 162 | 63123  | 21.108 | ng/ul# | 87 |
| 28) Naphthalene                | 10.26 | 128 | 183382 | 20.756 | ng/ul  | 99 |
| 30) 4-Chloroaniline            | 10.38 | 127 | 74557  | 22.901 | ng/ul  | 90 |
| 31) Hexachlorobutadiene        | 10.56 | 225 | 55202  | 24.477 | ng/ul  | 94 |
| 32) Caprolactam                | 11.15 | 113 | 18628m | 17.749 | ng/ul  |    |
| 33) 4-Chloro-3-methylphenol    | 11.52 | 107 | 77058  | 20.203 | ng/ul  | 89 |
| 34) 2-Methylnaphthalene        | 11.89 | 142 | 153319 | 21.587 | ng/ul  | 96 |

Data Path : Z:\HPCHEM1\BNA M\DATA\BM071117\  
 Data File : BM010791.D  
 Acq On : 11 Jul 2017 14:28  
 Operator : SJ/JU  
 Sample : SSTDC0020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 LabSampleId :  
 SSTD02013

Manual Integrations  
 APPROVED

mohammad  
 7/12/2017 4:59:39 PM

Quant Time: Jul 12 02:04:51 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM062017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jul 12 01:54:55 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.27 | 216  | 103164   | 20.257 | ng/ul# | 96       |
| 37) Hexachlorocyclopentadiene  | 12.25 | 237  | 45239    | 15.453 | ng/ul  | 91       |
| 38) 2,4,6-Trichlorophenol      | 12.52 | 196  | 66153    | 19.021 | ng/ul  | 99       |
| 39) 2,4,5-Trichlorophenol      | 12.59 | 196  | 70086    | 19.517 | ng/ul  | 99       |
| 40) 1,1'-Biphenyl              | 12.93 | 154  | 214598   | 19.022 | ng/ul  | 96       |
| 41) 2-Chloronaphthalene        | 12.96 | 162  | 174128   | 19.615 | ng/ul  | 95       |
| 42) 2-Nitroaniline             | 13.18 | 65   | 56322    | 21.688 | ng/ul  | 92       |
| 44) Dimethylphthalate          | 13.57 | 163  | 230764   | 18.585 | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 13.69 | 165  | 44892    | 20.873 | ng/ul# | 69       |
| 47) Acenaphthylene             | 13.82 | 152  | 265651   | 18.930 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.02 | 138  | 44084    | 20.323 | ng/ul  | 97       |
| 49) Acenaphthene               | 14.17 | 153  | 185630   | 19.609 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.23 | 184  | 29843    | 19.159 | ng/ul# | 76       |
| 52) 4-Nitrophenol              | 14.33 | 109  | 67313    | 23.799 | ng/ul# | 79       |
| 53) Dibenzofuran               | 14.51 | 168  | 298356   | 20.811 | ng/ul  | 93       |
| 54) 2,4-Dinitrotoluene         | 14.49 | 165  | 67555    | 20.246 | ng/ul# | 94       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.74 | 232  | 74392    | 20.476 | ng/ul# | 90       |
| 56) Diethylphthalate           | 14.96 | 149  | 253264   | 19.387 | ng/ul  | 95       |
| 58) Fluorene                   | 15.16 | 166  | 243117   | 20.254 | ng/ul  | 97       |
| 59) 4-Chlorophenyl-phenylether | 15.17 | 204  | 136563   | 20.934 | ng/ul  | 90       |
| 60) 4-Nitroaniline             | 15.19 | 138  | 49395    | 19.280 | ng/ul  | 83       |
| 63) 4,6-Dinitro-2-methylphenol | 15.25 | 198  | 49035    | 18.864 | ng/ul  | 91       |
| 64) N-Nitrosodiphenylamine     | 15.38 | 169  | 212108   | 19.256 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.06 | 248  | 90477    | 19.895 | ng/ul# | 87       |
| 66) Hexachlorobenzene          | 16.17 | 284  | 93910    | 19.608 | ng/ul# | 76       |
| 67) Atrazine                   | 16.35 | 200  | 94607    | 20.387 | ng/ul# | 92       |
| 68) Pentachlorophenol          | 16.52 | 266  | 59390    | 17.589 | ng/ul  | 96       |
| 69) Phenanthrene               | 16.90 | 178  | 425323   | 20.142 | ng/ul  | 97       |
| 71) Anthracene                 | 16.99 | 178  | 445197   | 20.465 | ng/ul  | 98       |
| 72) Carbazole                  | 17.27 | 167  | 370281   | 19.510 | ng/ul  | 98       |
| 73) Di-n-butylphthalate        | 17.85 | 149  | 465680   | 19.296 | ng/ul  | 97       |
| 74) Fluoranthene               | 18.93 | 202  | 572706   | 21.045 | ng/ul  | 97       |
| 77) Pyrene                     | 19.30 | 202  | 601090   | 22.661 | ng/ul# | 98       |
| 78) Butylbenzylphthalate       | 20.23 | 149  | 215134   | 21.575 | ng/ul  | 96       |
| 79) 3,3'-Dichlorobenzidine     | 21.00 | 252  | 160996   | 17.525 | ng/ul# | 93       |
| 80) Benzo(a)anthracene         | 21.06 | 228  | 553482   | 20.697 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.02 | 149  | 319545   | 21.004 | ng/ul# | 98       |
| 82) Chrysene                   | 21.12 | 228  | 486135   | 20.389 | ng/ul  | 100      |
| 84) Di-n-octyl phthalate       | 21.87 | 149  | 524645   | 19.552 | ng/ul# | 94       |
| 85) Benzo(b)fluoranthene       | 22.58 | 252  | 513294   | 20.592 | ng/ul  | 95       |
| 86) Benzo(k)fluoranthene       | 22.62 | 252  | 460462   | 19.485 | ng/ul  | 98       |
| 88) Benzo(a)pyrene             | 23.12 | 252  | 454259   | 19.795 | ng/ul  | 100      |
| 89) Indeno(1,2,3-cd)pyrene     | 25.32 | 276  | 491340   | 20.644 | ng/ul# | 97       |
| 90) Dibenzo(a,h)anthracene     | 25.33 | 278  | 400331   | 20.183 | ng/ul# | 98       |
| 91) Benzo(g,h,i)perylene       | 25.96 | 276  | 395299   | 20.864 | ng/ul  | 99       |

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

