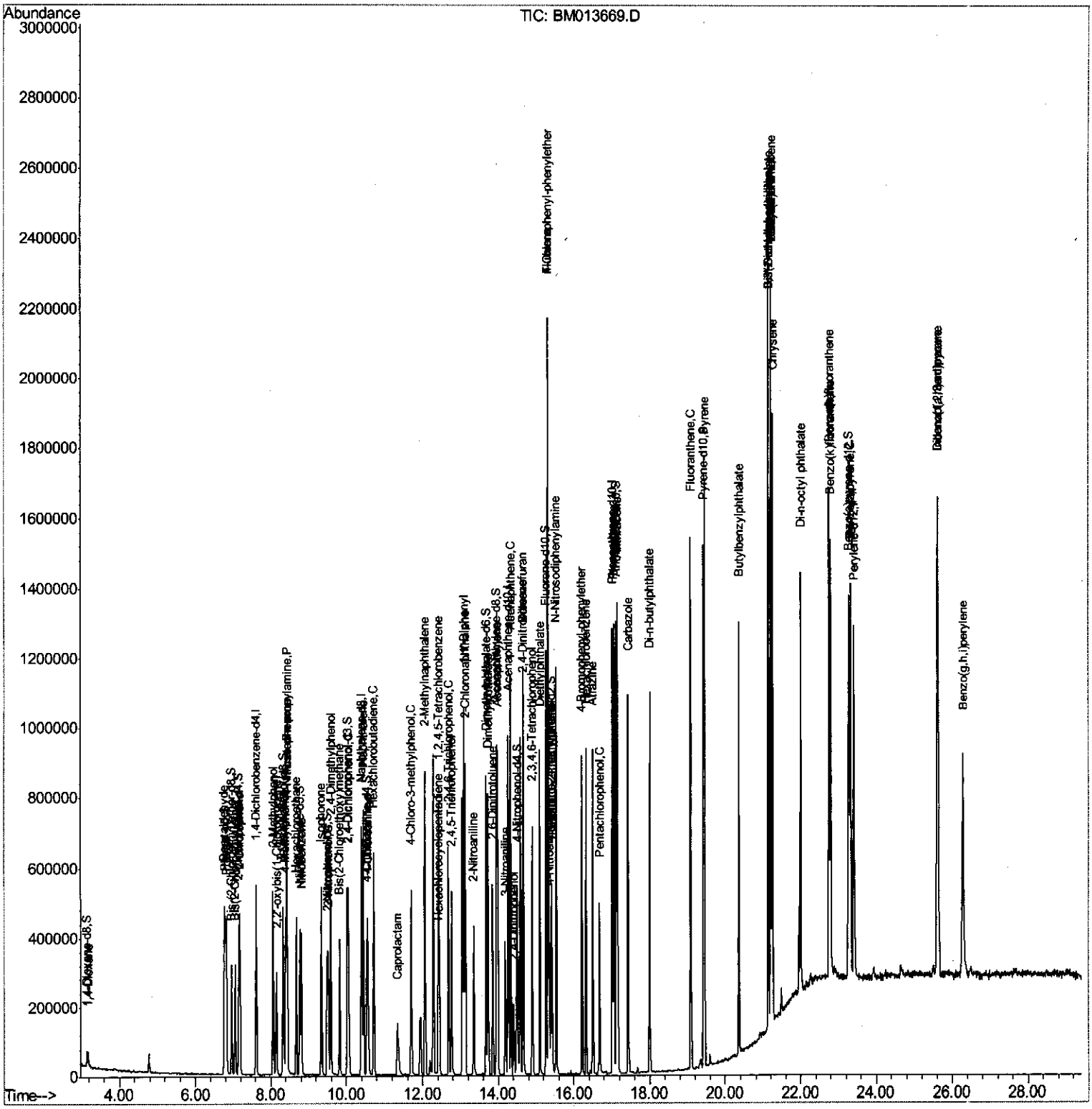
Data Path : U:\HPCHEM1\BNA M\DATA\BM011918\
Data File : BM013669.D
Acq On : 19 Jan 2018 17:50
Operator : SJ/JU
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 18:23:36 2018
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jan 19 13:15:36 2018
Response via : Initial Calibration

**Instrument :**
BNA_M
**LabSampleId :**
SSTD02028

**Manual Integrations APPROVED**
Sohil
1/22/2018 8:29:18 AM



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Data File : BM013669.D
Acq On : 19 Jan 2018 17:50
Operator : SJ/JU
Sample : SSTDCCC020EC
Misc :
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Quant Time: Jan 19 18:20:51 2018
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jan 19 13:15:36 2018
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**Instrument :**
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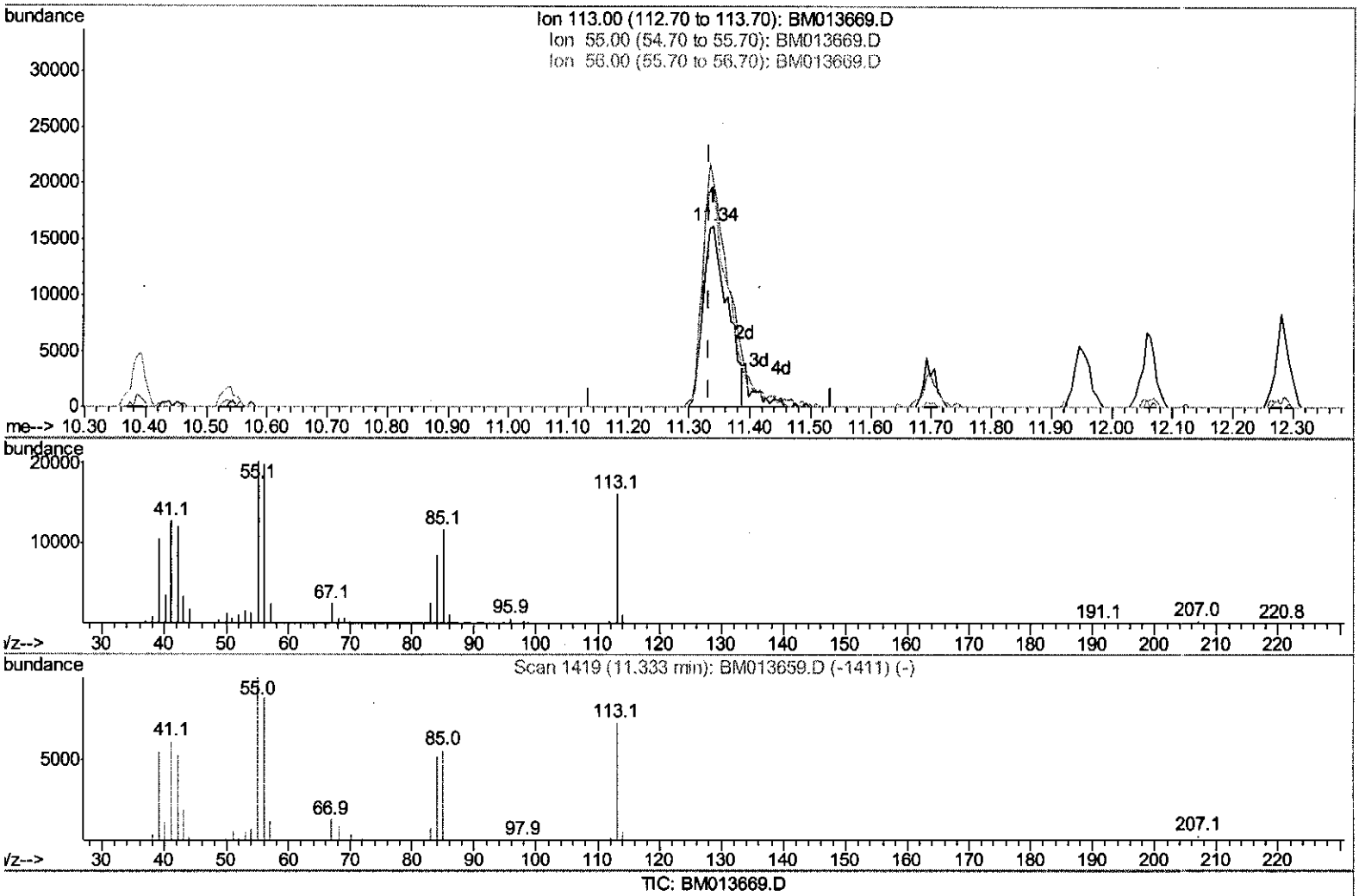


TIC: BM013669.D

(32) Caprolactam

11.339min (+0.006) 19.05ng/ul

response 45415

| Ion | Exp% | Act% |
|---|---|---|
| 113.00 | 100 | 100 |
| 55.00 | 260.00 | 124.19# |
| 56.00 | 200.00 | 121.72# |
| 0.00 | 0.00 | 0.00 |

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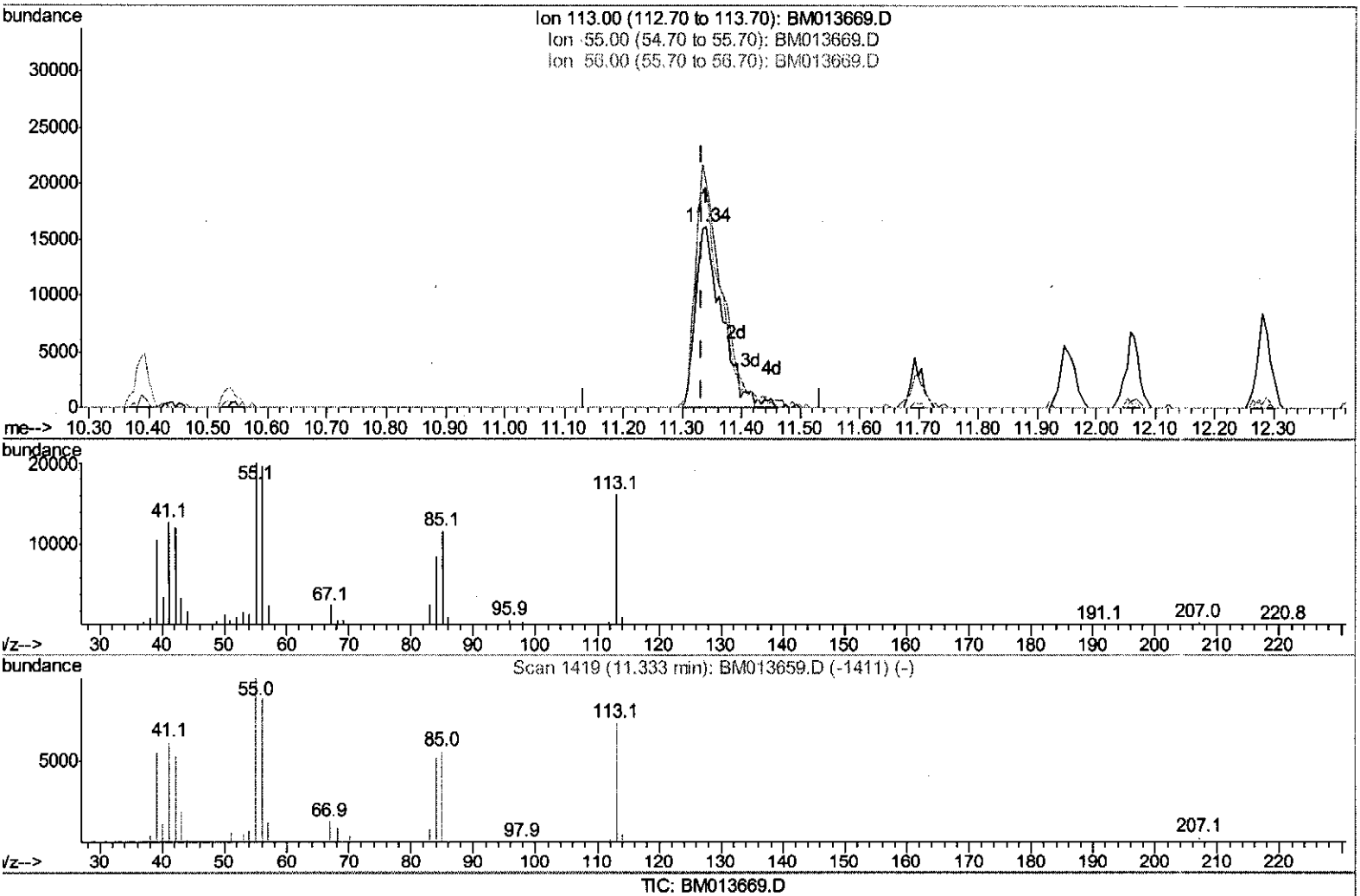
**Instrument :**
BNA_M
**LabSampleId :**
SSTD02028

**Manual Integrations APPROVED**
Sohil
1/22/2018 8:29:18 AM



TIC: BM013669.D

(32) Caprolactam

11.339min (+0.006) 20.44ng/ul m> SJ 1/22/18

response 48732

| Ion | Exp% | Act% |
|---|---|---|
| 113.00 | 100 | 100 |
| 55.00 | 260.00 | 124.19# |
| 56.00 | 200.00 | 121.72# |
| 0.00 | 0.00 | 0.00 |

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**Instrument :** BNA_M
**LabSampleId :** SSTD02028

**Manual Integrations APPROVED**
Sohil
1/22/2018 8:29:18 AM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.61 | 152 | 142052 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.39 | 136 | 561388 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.26 | 164 | 315472 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.02 | 188 | 716835 | 20.00 | ng/ul | 0.00 |
| 75) Chrysene-d12 | 21.22 | 240 | 742467 | 20.00 | ng/ul | 0.00 |
| 83) Perylene-d12 | 23.41 | 264 | 721150 | 20.00 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 3) 1,4-Dioxane-d8 | 3.16 | 96 | 20970 | 5.83 | ng/uL | 0.00 |
| 5) Phenol-d5 | 6.79 | 99 | 210755 | 19.33 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d | 6.96 | 67 | 122633 | 18.56 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4 | 7.15 | 132 | 181442 | 20.42 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8 | 8.33 | 113 | 168980 | 20.16 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5 | 8.77 | 128 | 87995 | 20.20 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4 | 9.49 | 143 | 94941 | 20.63 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3 | 10.02 | 165 | 181454 | 20.41 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4 | 10.54 | 131 | 190849 | 24.74 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6 | 13.68 | 166 | 512713 | 19.72 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8 | 13.95 | 160 | 666638 | 20.10 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4 | 14.49 | 143 | 77329 | 18.30 | ng/ul | 0.00 |
| 57) Fluorene-d10 | 15.26 | 176 | 457711 | 20.02 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.40 | 200 | 79901 | 18.52 | ng/ul | 0.00 |
| 70) Anthracene-d10 | 17.12 | 188 | 685981 | 19.65 | ng/ul | 0.00 |
| 76) Pyrene-d10 | 19.42 | 212 | 753562 | 21.80 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12 | 23.27 | 264 | 675093 | 20.37 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.19 | 88 | 25174 | 6.394 | ng/uL# | 55 |
| 4) Benzaldehyde | 6.77 | 77 | 151195 | 20.034 | ng/ul | 86 |
| 6) Phenol | 6.82 | 94 | 219532 | 20.071 | ng/ul# | 83 |
| 8) Bis(2-Chloroethyl)ether | 7.05 | 93 | 167540 | 19.575 | ng/ul | 97 |
| 10) 2-Chlorophenol | 7.18 | 128 | 177202 | 20.009 | ng/ul | 94 |
| 11) 2-Methylphenol | 8.06 | 108 | 159250 | 19.751 | ng/ul | 99 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.15 | 45 | 165194 | 18.968 | ng/ul# | 79 |
| 14) Acetophenone | 8.43 | 105 | 273332 | 19.703 | ng/ul | 88 |
| 15) N-Nitroso-di-n-propylamine | 8.42 | 70 | 131990 | 19.502 | ng/ul# | 69 |
| 16) 4-Methylphenol | 8.39 | 108 | 172374 | 19.994 | ng/ul | 98 |
| 17) Hexachloroethane | 8.67 | 117 | 80458 | 18.664 | ng/ul# | 75 |
| 20) Nitrobenzene | 8.81 | 77 | 215988 | 19.194 | ng/ul | 96 |
| 21) Isophorone | 9.33 | 82 | 347840 | 19.131 | ng/ul | 96 |
| 23) 2-Nitrophenol | 9.52 | 139 | 97163 | 20.255 | ng/ul# | 77 |
| 24) 2,4-Dimethylphenol | 9.58 | 107 | 204683 | 20.239 | ng/ul | 91 |
| 25) Bis(2-Chloroethoxy)methane | 9.82 | 93 | 210441 | 18.986 | ng/ul | 94 |
| 27) 2,4-Dichlorophenol | 10.05 | 162 | 176438 | 20.589 | ng/ul | 93 |
| 28) Naphthalene | 10.44 | 128 | 572828 | 20.510 | ng/ul | 97 |
| 30) 4-Chloroaniline | 10.56 | 127 | 188257 | 24.609 | ng/ul | 91 |
| 31) Hexachlorobutadiene | 10.72 | 225 | 129332 | 18.386 | ng/ul | 96 |
| 32) Caprolactam | 11.34 | 113 | 48732m> | 20.442 | ng/ul | |
| 33) 4-Chloro-3-methylphenol | 11.70 | 107 | 173698 | 19.995 | ng/ul | 86 |
| 34) 2-Methylnaphthalene | 12.06 | 142 | 411512 | 19.763 | ng/ul | 96 |

SJ 1/22/18

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**Manual Integrations APPROVED**
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1/22/2018 8:29:18 AM

Quant Time: Jan 19 18:23:36 2018
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Quant Title : SVOA CALIBRATION
QLast Update : Fri Jan 19 13:15:36 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.43 | 216 | 237979 | 20.359 | ng/ul | 98 |
| 37) Hexachlorocyclopentadiene | 12.41 | 237 | 71445 | 14.722 | ng/ul# | 93 |
| 38) 2,4,6-Trichlorophenol | 12.69 | 196 | 142441 | 21.052 | ng/ul | 99 |
| 39) 2,4,5-Trichlorophenol | 12.76 | 196 | 152516 | 21.662 | ng/ul | 96 |
| 40) 1,1'-Biphenyl | 13.09 | 154 | 529041 | 20.146 | ng/ul | 96 |
| 41) 2-Chloronaphthalene | 13.13 | 162 | 423869 | 20.649 | ng/ul | 98 |
| 42) 2-Nitroaniline | 13.35 | 65 | 112551 | 19.877 | ng/ul | 92 |
| 44) Dimethylphthalate | 13.73 | 163 | 495055 | 19.365 | ng/ul | 99 |
| 45) 2,6-Dinitrotoluene | 13.85 | 165 | 103010 | 20.793 | ng/ul | 96 |
| 47) Acenaphthylene | 13.98 | 152 | 627478 | 20.684 | ng/ul | 97 |
| 48) 3-Nitroaniline | 14.19 | 138 | 88847 | 22.804 | ng/ul | 91 |
| 49) Acenaphthene | 14.33 | 153 | 424682 | 20.213 | ng/ul | 97 |
| 50) 2,4-Dinitrophenol | 14.40 | 184 | 42153 | 14.844 | ng/ul# | 87 |
| 52) 4-Nitrophenol | 14.50 | 109 | 80260 | 18.698 | ng/ul# | 81 |
| 53) Dibenzofuran | 14.67 | 168 | 615129 | 19.462 | ng/ul | 99 |
| 54) 2,4-Dinitrotoluene | 14.65 | 165 | 142072 | 19.673 | ng/ul | 98 |
| 55) 2,3,4,6-Tetrachlorophenol | 14.90 | 232 | 132014 | 19.935 | ng/ul# | 85 |
| 56) Diethylphthalate | 15.10 | 149 | 483710 | 18.802 | ng/ul | 97 |
| 58) Fluorene | 15.32 | 166 | 515648 | 19.916 | ng/ul | 97 |
| 59) 4-Chlorophenyl-phenylether | 15.32 | 204 | 261985 | 18.726 | ng/ul | 92 |
| 60) 4-Nitroaniline | 15.35 | 138 | 94518 | 20.734 | ng/ul | 90 |
| 63) 4,6-Dinitro-2-methylphenol | 15.42 | 198 | 82430 | 18.099 | ng/ul | 93 |
| 64) N-Nitrosodiphenylamine | 15.53 | 169 | 419841 | 19.914 | ng/ul | 97 |
| 65) 4-Bromophenyl-phenylether | 16.22 | 248 | 160646 | 18.974 | ng/ul | 98 |
| 66) Hexachlorobenzene | 16.32 | 284 | 176364 | 19.352 | ng/ul# | 89 |
| 67) Atrazine | 16.49 | 200 | 159344 | 18.937 | ng/ul | 95 |
| 68) Pentachlorophenol | 16.67 | 266 | 87705 | 18.110 | ng/ul | 96 |
| 69) Phenanthrene | 17.06 | 178 | 784289 | 19.683 | ng/ul | 99 |
| 71) Anthracene | 17.15 | 178 | 808839 | 19.680 | ng/ul | 99 |
| 72) Carbazole | 17.43 | 167 | 669275 | 19.728 | ng/ul | 99 |
| 73) Di-n-butylphthalate | 17.99 | 149 | 730123 | 18.299 | ng/ul | 98 |
| 74) Fluoranthene | 19.08 | 202 | 899878 | 18.920 | ng/ul# | 93 |
| 77) Pyrene | 19.44 | 202 | 954203 | 21.140 | ng/ul# | 92 |
| 78) Butylbenzylphthalate | 20.36 | 149 | 324266 | 20.395 | ng/ul | 96 |
| 79) 3,3'-Dichlorobenzidine | 21.14 | 252 | 275681 | 22.445 | ng/ul# | 97 |
| 80) Benzo(a)anthracene | 21.20 | 228 | 923106 | 20.576 | ng/ul | 99 |
| 81) Bis(2-ethylhexyl)phthalate | 21.14 | 149 | 440835 | 18.480 | ng/ul | 99 |
| 82) Chrysene | 21.25 | 228 | 829181 | 20.147 | ng/ul | 99 |
| 84) Di-n-octyl phthalate | 22.01 | 149 | 754616 | 17.363 | ng/ul | 98 |
| 85) Benzo(b)fluoranthene | 22.76 | 252 | 929081 | 20.978 | ng/ul# | 97 |
| 86) Benzo(k)fluoranthene | 22.80 | 252 | 848279 | 19.816 | ng/ul# | 98 |
| 88) Benzo(a)pyrene | 23.32 | 252 | 851126 | 20.344 | ng/ul# | 97 |
| 89) Indeno(1,2,3-cd)pyrene | 25.61 | 276 | 977954 | 19.802 | ng/ul# | 94 |
| 90) Dibenzo(a,h)anthracene | 25.63 | 278 | 839763 | 20.136 | ng/ul# | 98 |
| 91) Benzo(g,h,i)perylene | 26.29 | 276 | 815028 | 20.052 | ng/ul# | 96 |

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