

**Instrument :**  
BNA\_M  
**LabSampleId :**  
SSTD02019

Sohil  
12/7/2017 11:41:44 AM

[illegible]

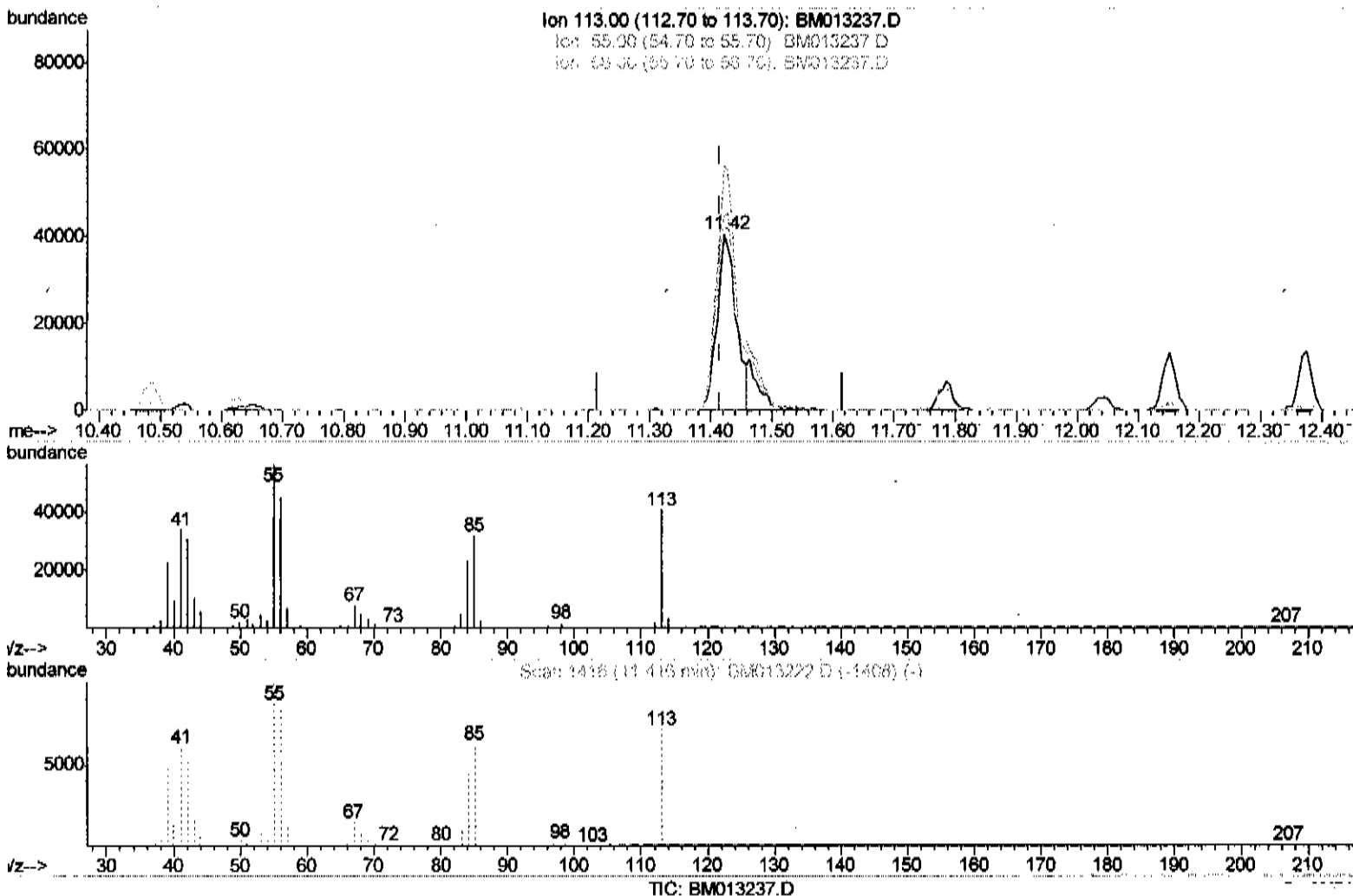
Data Path : Z:\HPCHEM1\BNA M\DATA\BM120617\  
 Data File : BM013237.D  
 Acq On : 07 Dec 2017 07:39  
 Operator : SJ/JU  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

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Manual Integrations  
 APPROVED

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Quant Time: Dec 07 08:24:57 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 07 04:35:17 2017  
 Response via : Initial Calibration



(32) Caprolactam

11.421min (+0.006) 16.75ng/ul

response 87828

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 113.00 | 100    | 100     |
| 55.00  | 260.00 | 138.99# |
| 69.00  | 200.00 | 110.78# |
| 0.00   | 0.00   | 0.00    |

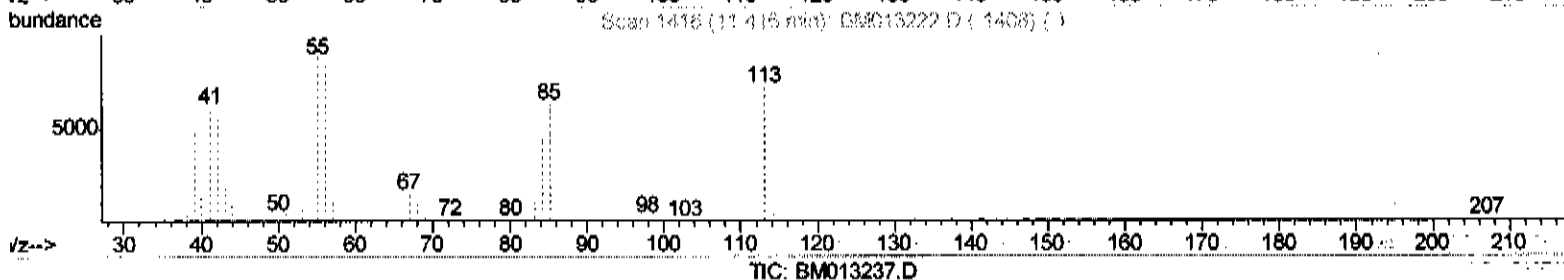
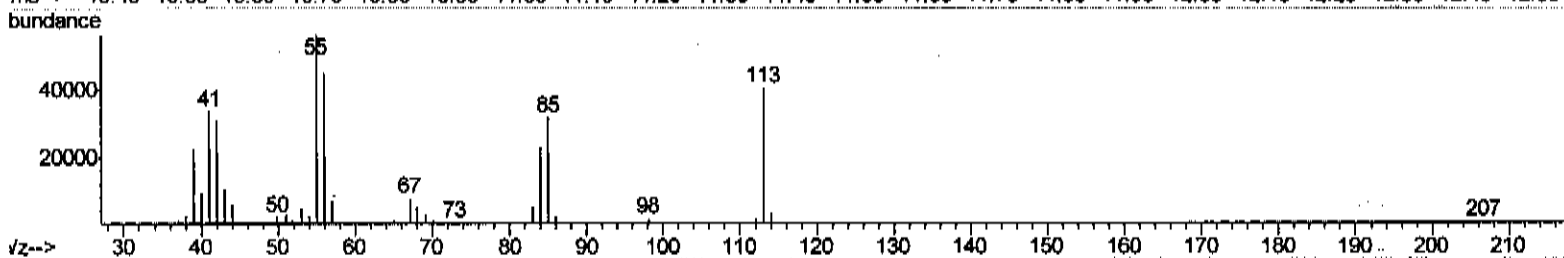
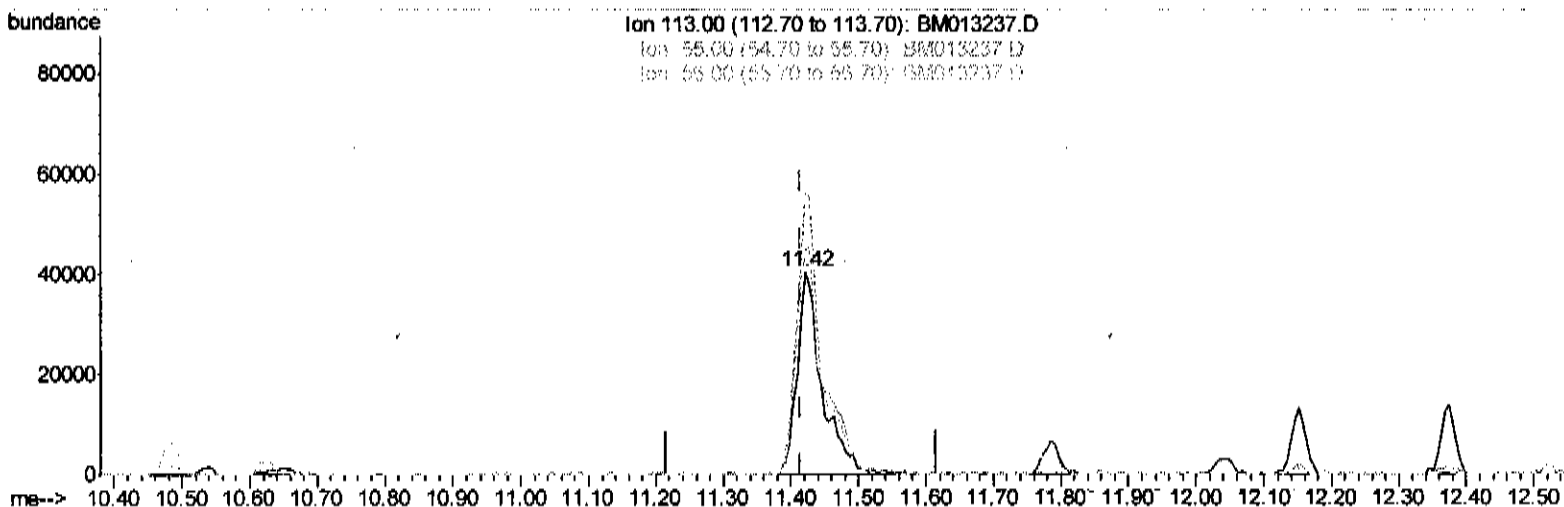
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(32) Caprolactam

11.421min (+0.006) 19.75ng/ul m SJ 12/07/17

response 103549

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 113.00 | 100    | 100     |
| 55.00  | 260.00 | 138.99# |
| 56.00  | 200.00 | 110.78# |
| 0.00   | 0.00   | 0.00    |

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 Quant Title : SVOA CALIBRATION  
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 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.70  | 152  | 230973   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.49 | 136  | 1015674  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.34 | 164  | 608899   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.09 | 188  | 1338027  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.28 | 240  | 1082024  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.51 | 264  | 888502   | 20.00 | ng/ul | 0.01     |

#### System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.24  | 96  | 26666   | 5.72  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.89  | 99  | 392655  | 19.65 | ng/ul | 0.01 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.05  | 67  | 221455  | 19.43 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.24  | 132 | 316343  | 20.26 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.42  | 113 | 335988  | 19.68 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.86  | 128 | 160314  | 19.90 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.57  | 143 | 178874  | 20.75 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.11 | 165 | 347720  | 19.57 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.62 | 131 | 418210  | 25.61 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.76 | 166 | 1006424 | 18.57 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.04 | 160 | 1297426 | 19.40 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.56 | 143 | 176462  | 18.74 | ng/ul | 0.01 |
| 57) Fluorene-d10               | 15.34 | 176 | 879420  | 18.87 | ng/ul | 0.01 |
| 62) 4,6-Dinitro-2-methylphenol | 15.47 | 200 | 98178   | 11.66 | ng/ul | 0.01 |
| 70) Anthracene-d10             | 17.19 | 188 | 1331080 | 19.86 | ng/ul | 0.00 |
| 76) Pvrene-d10                 | 19.49 | 212 | 1296498 | 24.05 | ng/ul | 0.01 |
| 87) Benzo(a)pyrene-d12         | 23.37 | 264 | 854071  | 18.87 | ng/ul | 0.01 |

#### Target Compounds

|                                |       |     |         |        | Ovalue |    |
|--------------------------------|-------|-----|---------|--------|--------|----|
| 2) 1,4-Dioxane                 | 3.27  | 88  | 31168   | 5.953  | ng/uL# | 66 |
| 4) Benzaldehyde                | 6.86  | 77  | 200730  | 20.300 | ng/ul  | 88 |
| 6) Phenol                      | 6.91  | 94  | 386432  | 19.561 | ng/ul# | 82 |
| 8) Bis(2-Chloroethyl)ether     | 7.13  | 93  | 290379  | 19.225 | ng/ul  | 98 |
| 10) 2-Chlorophenol             | 7.27  | 128 | 308154  | 20.125 | ng/ul  | 94 |
| 11) 2-Methylphenol             | 8.15  | 108 | 298648  | 19.546 | ng/ul  | 99 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.23  | 45  | 314239  | 19.814 | ng/ul# | 81 |
| 14) Acetophenone               | 8.52  | 105 | 507921  | 19.563 | ng/ul  | 86 |
| 15) N-Nitroso-di-n-propylamine | 8.51  | 70  | 238934  | 18.270 | ng/ul# | 70 |
| 16) 4-Methylphenol             | 8.48  | 108 | 323617  | 19.807 | ng/ul  | 97 |
| 17) Hexachloroethane           | 8.77  | 117 | 131871  | 19.781 | ng/ul# | 74 |
| 20) Nitrobenzene               | 8.90  | 77  | 381505  | 18.803 | ng/ul  | 94 |
| 21) Isophorone                 | 9.42  | 82  | 690645  | 19.344 | ng/ul  | 94 |
| 23) 2-Nitrophenol              | 9.60  | 139 | 179908  | 20.131 | ng/ul# | 82 |
| 24) 2,4-Dimethylphenol         | 9.67  | 107 | 382139  | 19.605 | ng/ul# | 89 |
| 25) Bis(2-Chloroethoxy)methane | 9.90  | 93  | 402876  | 19.281 | ng/ul  | 95 |
| 27) 2,4-Dichlorophenol         | 10.14 | 162 | 326443  | 19.894 | ng/ul# | 90 |
| 28) Naphthalene                | 10.53 | 128 | 1020367 | 19.527 | ng/ul  | 99 |
| 30) 4-Chloroaniline            | 10.65 | 127 | 399102  | 25.249 | ng/ul  | 96 |
| 31) Hexachlorobutadiene        | 10.82 | 225 | 223552  | 18.808 | ng/ul  | 94 |
| 32) Caprolactam                | 11.42 | 113 | 103549m | 19.745 | ng/ul  | -  |
| 33) 4-Chloro-3-methylphenol    | 11.79 | 107 | 349141  | 19.397 | ng/ul  | 96 |
| 34) 2-Methylnaphthalene        | 12.15 | 142 | 746957  | 19.015 | ng/ul  | 94 |

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|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.52 | 216  | 430154   | 19.578 | ng/ul  | 94       |
| 37) Hexachlorocyclopentadiene  | 12.50 | 237  | 138963   | 9.609  | ng/ul  | 98       |
| 38) 2,4,6-Trichlorophenol      | 12.77 | 196  | 277947   | 20.292 | ng/ul  | 95       |
| 39) 2,4,5-Trichlorophenol      | 12.84 | 196  | 294130   | 20.215 | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.17 | 154  | 985301   | 19.147 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.22 | 162  | 783394   | 19.404 | ng/ul  | 99       |
| 42) 2-Nitroaniline             | 13.43 | 65   | 235394   | 19.900 | ng/ul  | 89       |
| 44) Dimethylphthalate          | 13.81 | 163  | 962227   | 18.567 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 13.93 | 165  | 205931   | 19.483 | ng/ul  | 96       |
| 47) Acenaphthylene             | 14.07 | 152  | 1200735  | 19.405 | ng/ul  | 98       |
| 48) 3-Nitroaniline             | 14.26 | 138  | 206486   | 21.856 | ng/ul  | 89       |
| 49) Acenaphthene               | 14.41 | 153  | 824402   | 19.558 | ng/ul  | 97       |
| 50) 2,4-Dinitrophenol          | 14.47 | 184  | 48700    | 8.326  | ng/ul  | 90       |
| 52) 4-Nitrophenol              | 14.57 | 109  | 165585   | 17.929 | ng/ul# | 81       |
| 53) Dibenzofuran               | 14.74 | 168  | 1171481  | 18.826 | ng/ul  | 98       |
| 54) 2,4-Dinitrotoluene         | 14.72 | 165  | 291067   | 18.931 | ng/ul# | 85       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.97 | 232  | 267611   | 20.060 | ng/ul# | 88       |
| 56) Diethylphthalate           | 15.18 | 149  | 966430   | 18.593 | ng/ul  | 96       |
| 58) Fluorene                   | 15.40 | 166  | 956818   | 18.586 | ng/ul  | 99       |
| 59) 4-Chlorophenyl-phenylether | 15.40 | 204  | 492970   | 17.643 | ng/ul  | 97       |
| 60) 4-Nitroaniline             | 15.42 | 138  | 229190   | 20.561 | ng/ul  | 95       |
| 63) 4,6-Dinitro-2-methylphenol | 15.49 | 198  | 96230    | 11.440 | ng/ul  | 95       |
| 64) N-Nitrosodiphenylamine     | 15.61 | 169  | 814031   | 20.653 | ng/ul  | 98       |
| 65) 4-Bromophenyl-phenylether  | 16.29 | 248  | 314250   | 19.979 | ng/ul  | 94       |
| 66) Hexachlorobenzene          | 16.40 | 284  | 346694   | 19.987 | ng/ul# | 93       |
| 67) Atrazine                   | 16.57 | 200  | 308990   | 21.239 | ng/ul  | 93       |
| 68) Pentachlorophenol          | 16.75 | 266  | 207738   | 20.707 | ng/ul  | 94       |
| 69) Phenanthrene               | 17.14 | 178  | 1474911  | 19.403 | ng/ul  | 99       |
| 71) Anthracene                 | 17.23 | 178  | 1530688  | 19.700 | ng/ul  | 98       |
| 72) Carbazole                  | 17.50 | 167  | 1285154  | 19.229 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.07 | 149  | 1560034  | 19.995 | ng/ul# | 98       |
| 74) Fluoranthene               | 19.16 | 202  | 1629233  | 17.489 | ng/ul# | 94       |
| 77) Pyrene                     | 19.52 | 202  | 1597163  | 24.297 | ng/ul# | 94       |
| 78) Butylbenzylphthalate       | 20.43 | 149  | 670729   | 26.114 | ng/ul  | 94       |
| 79) 3,3'-Dichlorobenzidine     | 21.20 | 252  | 414851   | 18.239 | ng/ul  | 99       |
| 80) Benzo(a)anthracene         | 21.27 | 228  | 1362287  | 19.843 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.20 | 149  | 941155   | 24.311 | ng/ul  | 98       |
| 82) Chrysene                   | 21.32 | 228  | 1231747  | 19.339 | ng/ul  | 100      |
| 84) Di-n-octyl phthalate       | 22.08 | 149  | 1542984  | 24.421 | ng/ul# | 94       |
| 85) Benzo(b)fluoranthene       | 22.84 | 252  | 1111508  | 18.558 | ng/ul# | 97       |
| 86) Benzo(k)fluoranthene       | 22.89 | 252  | 1062989  | 18.859 | ng/ul# | 97       |
| 88) Benzo(a)pyrene             | 23.42 | 252  | 1014170  | 18.849 | ng/ul# | 97       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.76 | 276  | 1157878  | 21.689 | ng/ul# | 95       |
| 90) Dibenzo(a,h)anthracene     | 25.77 | 278  | 987533   | 21.724 | ng/ul# | 95       |
| 91) Benzo(g,h,i)perylene       | 26.45 | 276  | 956518   | 22.715 | ng/ul# | 96       |

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