

(QT Reviewed)

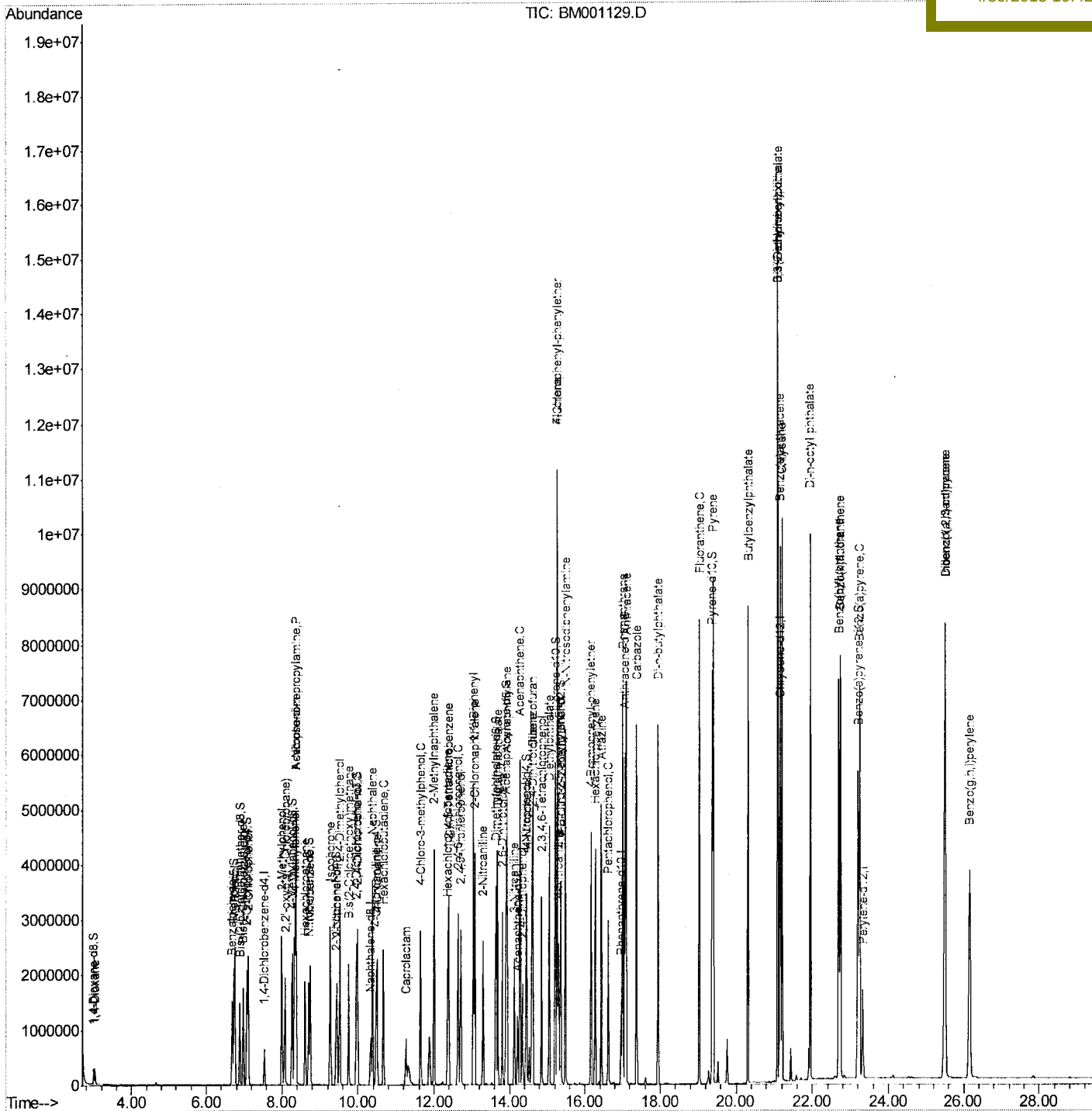
Data Path : Z:\HPCHEM1\BNA\_M\Data\BM042815\  
Data File : BM001129.D  
Acq On : 28 Apr 2015 00:01  
Operator : TP/IZ  
Sample : SSTD08053  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**  
BNA\_M  
**ClientSampleId :**  
SSTD08053

Quant Time: Apr 28 06:12:26 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042815.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Apr 28 04:01:47 2015  
Response via : Initial Calibration

## Manual Integrations

apatel  
4/30/2015 10:42:56 AM



Data Path : Z:\HPCHEM1\BNA\_M\Data\BM042815\  
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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.38 | 216  | 934700   | 79.33  | ng/ul  | 99       |
| 37) Hexachlorocyclopentadiene  | 12.36 | 237  | 542955   | 81.70  | ng/ul  | 94       |
| 38) 2,4,6-Trichlorophenol      | 12.63 | 196  | 614714   | 85.76  | ng/ul  | 99       |
| 39) 2,4,5-Trichlorophenol      | 12.70 | 196  | 674151   | 87.13  | ng/ul  | 96       |
| 40) 1,1'-Biphenyl              | 13.03 | 154  | 2522575  | 79.21  | ng/ul  | 100      |
| 41) 2-Chloronaphthalene        | 13.07 | 162  | 1934681  | 79.20  | ng/ul  | 98       |
| 42) 2-Nitroaniline             | 13.29 | 65   | 688276   | 105.38 | ng/ul  | 98       |
| 44) Dimethylphthalate          | 13.67 | 163  | 2426910  | 84.25  | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 13.80 | 165  | 513353   | 96.17  | ng/ul  | 98       |
| 47) Acenaphthylene             | 13.93 | 152  | 3250874  | 82.27  | ng/ul  | 100      |
| 48) 3-Nitroaniline             | 14.13 | 138  | 488577   | 92.53  | ng/ul  | 92       |
| 49) Acenaphthene               | 14.27 | 153  | 2135069  | 81.45  | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.34 | 184  | 308193   | 98.23  | ng/ul  | 94       |
| 52) 4-Nitrophenol              | 14.45 | 109  | 413441   | 102.92 | ng/ul  | 99       |
| 53) Dibenzofuran               | 14.61 | 168  | 2943519  | 80.85  | ng/ul  | 100      |
| 54) 2,4-Dinitrotoluene         | 14.59 | 165  | 764460   | 95.60  | ng/ul# | 100      |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.84 | 232  | 568529   | 89.73  | ng/ul  | 95       |
| 56) Diethylphthalate           | 15.05 | 149  | 2534344  | 87.83  | ng/ul  | 100      |
| 58) Fluorene                   | 15.26 | 166  | 2581284  | 85.98  | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.26 | 204  | 1185072  | 82.57  | ng/ul  | 96       |
| 60) 4-Nitroaniline             | 15.30 | 138  | 594904m  | 92.43  | ng/ul  | 97       |
| 63) 4,6-Dinitro-2-methylphenol | 15.36 | 198  | 471179   | 90.19  | ng/ul# | 99       |
| 64) N-Nitrosodiphenylamine     | 15.48 | 169  | 2093620  | 80.68  | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.16 | 248  | 682249   | 82.79  | ng/ul  | 93       |
| 66) Hexachlorobenzene          | 16.27 | 284  | 761223   | 81.93  | ng/ul  | 99       |
| 67) Atrazine                   | 16.44 | 200  | 737267   | 83.98  | ng/ul  | 97       |
| 68) Pentachlorophenol          | 16.62 | 266  | 455278   | 88.47  | ng/ul  | 94       |
| 69) Phenanthrene               | 17.00 | 178  | 3906814  | 81.76  | ng/ul  | 100      |
| 71) Anthracene                 | 17.09 | 178  | 4041268  | 83.02  | ng/ul  | 99       |
| 72) Carbazole                  | 17.37 | 167  | 3742495  | 85.67  | ng/ul  | 98       |
| 73) Di-n-butylphthalate        | 17.94 | 149  | 4496444  | 93.07  | ng/ul  | 99       |
| 74) Fluoranthene               | 19.03 | 202  | 4567914  | 88.17  | ng/ul  | 97       |
| 77) Pyrene                     | 19.39 | 202  | 4854109  | 77.38  | ng/ul  | 97       |
| 78) Butylbenzylphthalate       | 20.30 | 149  | 2168083  | 92.95  | ng/ul  | 98       |
| 79) 3,3'-Dichlorobenzidine     | 21.09 | 252  | 1445358  | 88.99  | ng/ul  | 99       |
| 80) Benzo(a)anthracene         | 21.14 | 228  | 4773479  | 81.75  | ng/ul  | 98       |
| 81) Bis(2-ethylhexyl)phthalate | 21.09 | 149  | 3325738  | 94.45  | ng/ul# | 96       |
| 82) Chrysene                   | 21.20 | 228  | 4445932  | 79.85  | ng/ul  | 98       |
| 84) Di-n-octyl phthalate       | 21.94 | 149  | 5446849  | 86.66  | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 22.68 | 252  | 4795923  | 83.12  | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 22.72 | 252  | 4461093  | 82.47  | ng/ul  | 99       |
| 88) Benzo(a)pyrene             | 23.23 | 252  | 4543496  | 83.97  | ng/ul  | 98       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.49 | 276  | 5150665  | 86.82  | ng/ul  | 96       |
| 90) Dibenzo(a,h)anthracene     | 25.50 | 278  | 4326757  | 86.52  | ng/ul  | 99       |
| 91) Benzo(g,h,i)perylene       | 26.15 | 276  | 4213270  | 84.27  | ng/ul  | 99       |

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

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 Misc :  
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| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.54  | 152  | 154931   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.32 | 136  | 652755   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.21 | 164  | 378321   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.96 | 188  | 844394   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.16 | 240  | 996047   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.32 | 264  | 928365   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 2.99  | 96  | 104035  | 30.44 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.73  | 99  | 1035874 | 82.86 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.88  | 67  | 630498  | 81.51 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.07  | 132 | 818513  | 82.29 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.27  | 113 | 840509  | 84.00 | ng/ul | 0.01 |
| 19) Nitrobenzene-d5            | 8.70  | 128 | 381541  | 86.37 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.42  | 143 | 439428  | 89.69 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.96  | 165 | 822709  | 85.70 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.47 | 131 | 858455  | 81.15 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.63 | 166 | 2183145 | 84.95 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.90 | 160 | 3061100 | 83.94 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.44 | 143 | 485897  | 94.33 | ng/ul | 0.01 |
| 57) Fluorene-d10               | 15.21 | 176 | 2089211 | 82.12 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.34 | 200 | 437171  | 89.65 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.06 | 188 | 3242648 | 84.06 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.36 | 212 | 3606521 | 78.67 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.19 | 264 | 3508954 | 83.46 | ng/ul | 0.01 |

## Target Compounds

|                                |       |     |         |       |       | Qvalue |
|--------------------------------|-------|-----|---------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.02  | 88  | 112219  | 31.64 | ng/uL | 94     |
| 4) Benzaldehyde                | 6.68  | 77  | 462556  | 58.69 | ng/ul | 97     |
| 6) Phenol                      | 6.75  | 94  | 1096118 | 82.14 | ng/ul | 99     |
| 8) Bis(2-Chloroethyl)ether     | 6.97  | 93  | 834922  | 79.76 | ng/ul | 99     |
| 10) 2-Chlorophenol             | 7.10  | 128 | 857936  | 81.22 | ng/ul | 97     |
| 11) 2-Methylphenol             | 7.99  | 108 | 819863  | 81.58 | ng/ul | 99     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.08  | 45  | 1556295 | 83.69 | ng/ul | 99     |
| 14) Acetophenone               | 8.36  | 105 | 1337253 | 84.30 | ng/ul | 97     |
| 15) N-Nitroso-di-n-propylamine | 8.36  | 70  | 698034  | 88.66 | ng/ul | 98     |
| 16) 4-Methylphenol             | 8.33  | 108 | 900919  | 82.72 | ng/ul | 99     |
| 17) Hexachloroethane           | 8.60  | 117 | 347350  | 83.78 | ng/ul | 95     |
| 20) Nitrobenzene               | 8.74  | 77  | 1033396 | 88.83 | ng/ul | 97     |
| 21) Isophorone                 | 9.26  | 82  | 1856753 | 90.72 | ng/ul | 100    |
| 23) 2-Nitrophenol              | 9.45  | 139 | 470175  | 86.50 | ng/ul | 97     |
| 24) 2,4-Dimethylphenol         | 9.52  | 107 | 990511  | 85.71 | ng/ul | 98     |
| 25) Bis(2-Chloroethoxy)methane | 9.75  | 93  | 1121273 | 83.61 | ng/ul | 98     |
| 27) 2,4-Dichlorophenol         | 9.98  | 162 | 810923  | 84.44 | ng/ul | 99     |
| 28) Naphthalene                | 10.37 | 128 | 2745829 | 80.43 | ng/ul | 100    |
| 30) 4-Chloroaniline            | 10.49 | 127 | 888774  | 82.24 | ng/ul | 97     |
| 31) Hexachlorobutadiene        | 10.66 | 225 | 463600  | 80.09 | ng/ul | 96     |
| 32) Caprolactam                | 11.26 | 113 | 266613m | 96.72 | ng/ul |        |
| 33) 4-Chloro-3-methylphenol    | 11.64 | 107 | 901581  | 90.29 | ng/ul | 100    |
| 34) 2-Methylnaphthalene        | 12.00 | 142 | 1938738 | 81.31 | ng/ul | 98     |

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# Quantitation Report (Qedit)

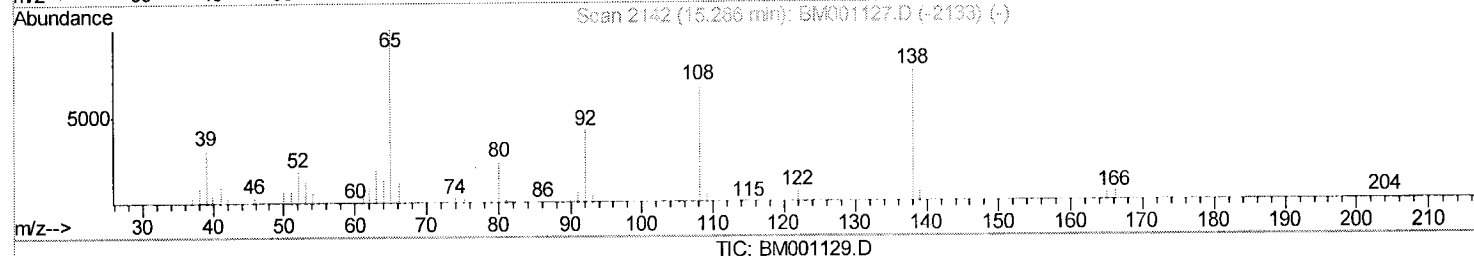
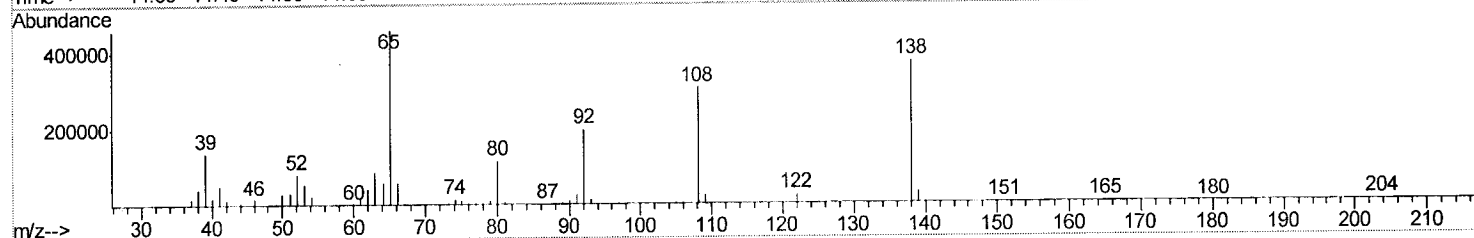
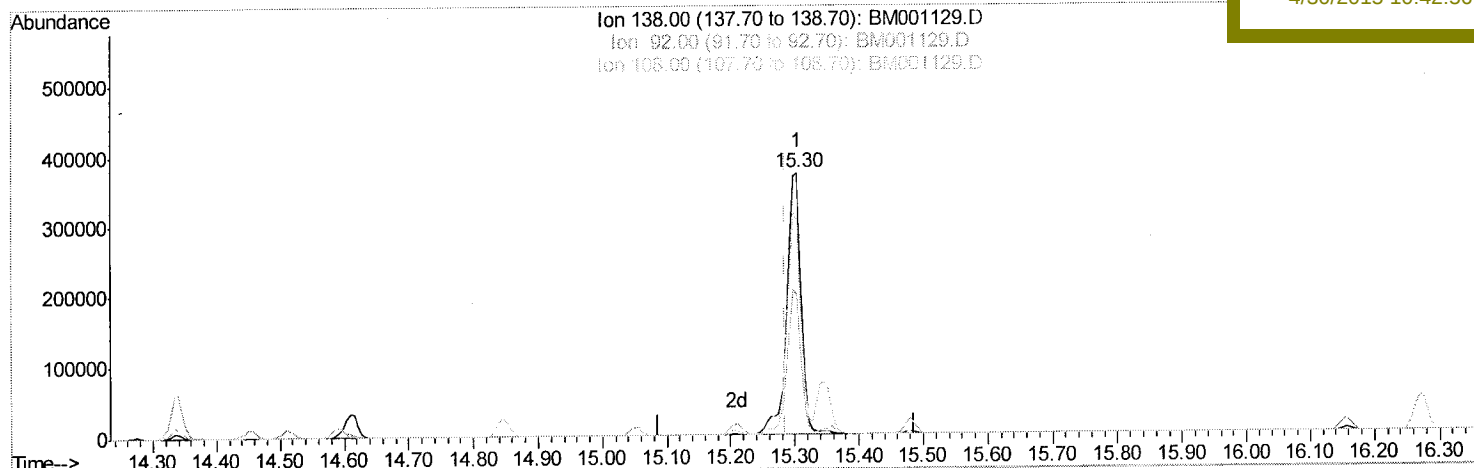
Data Path : %:\HPCHEM1\BNA\_M\Data\BM042815\  
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 Sample : SST08053  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
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(60) 4-Nitroaniline

15.304min (+0.018) 92.43ng/ul m

response 594904

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 138.00 | 100   | 100   |
| 92.00  | 55.30 | 52.95 |
| 108.00 | 88.30 | 81.82 |
| 0.00   | 0.00  | 0.00  |

TP  
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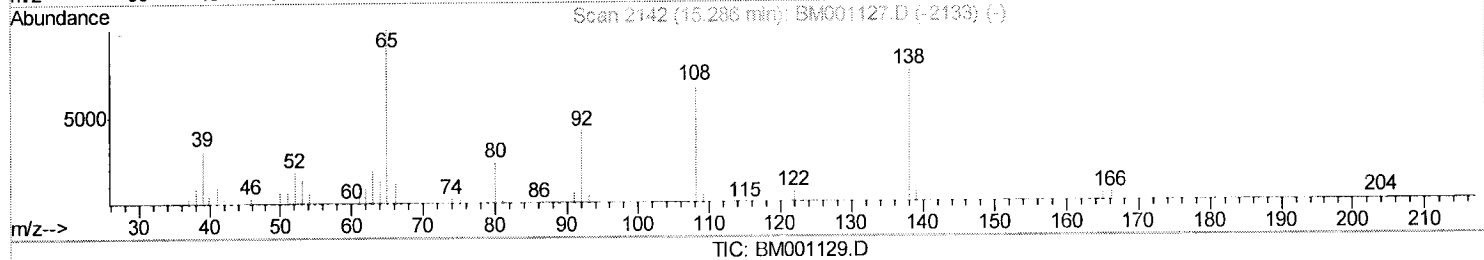
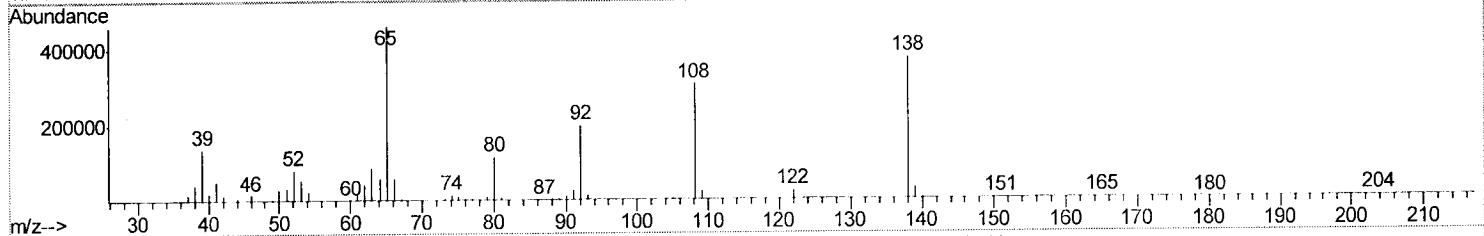
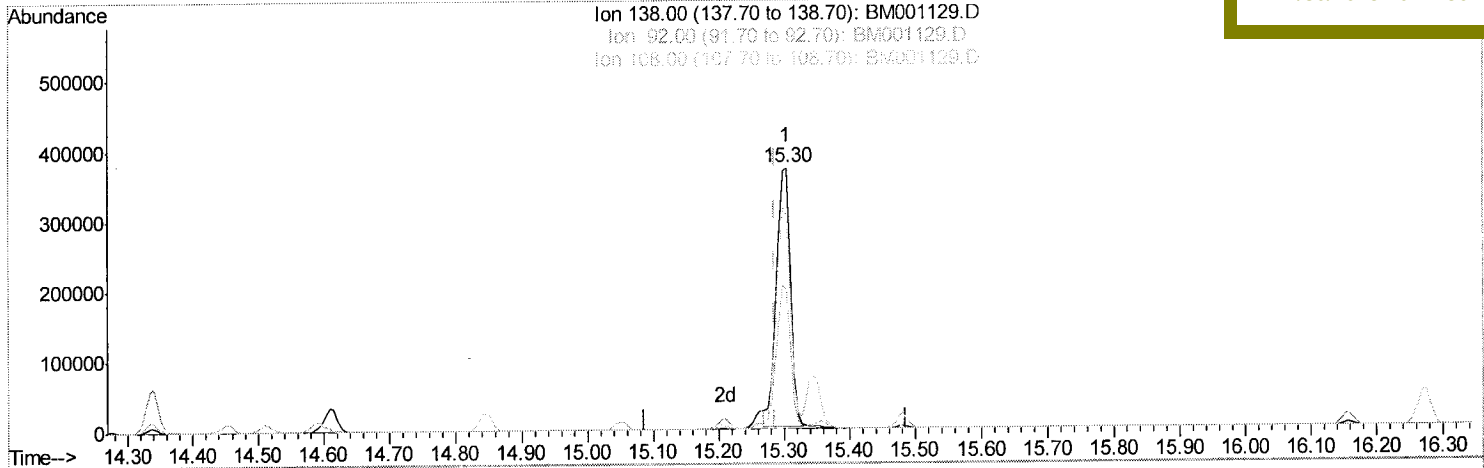
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(60) 4-Nitroaniline

15.304min (+0.018) 85.06ng/ul

response 547412

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 138.00 | 100   | 100   |
| 92.00  | 55.30 | 52.95 |
| 108.00 | 88.30 | 81.82 |
| 0.00   | 0.00  | 0.00  |

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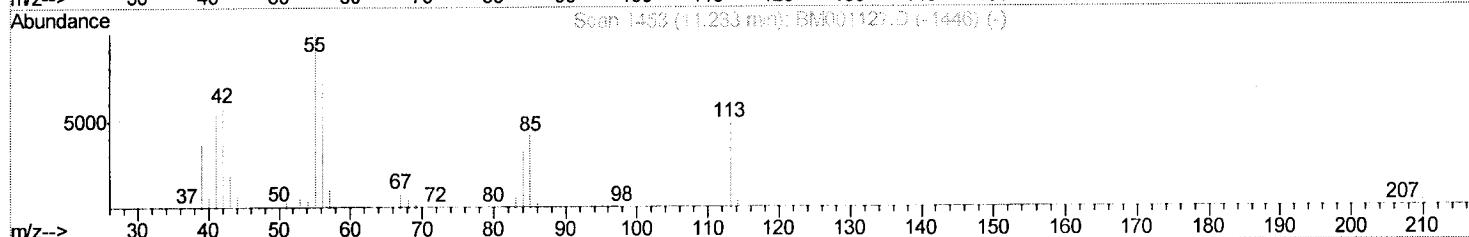
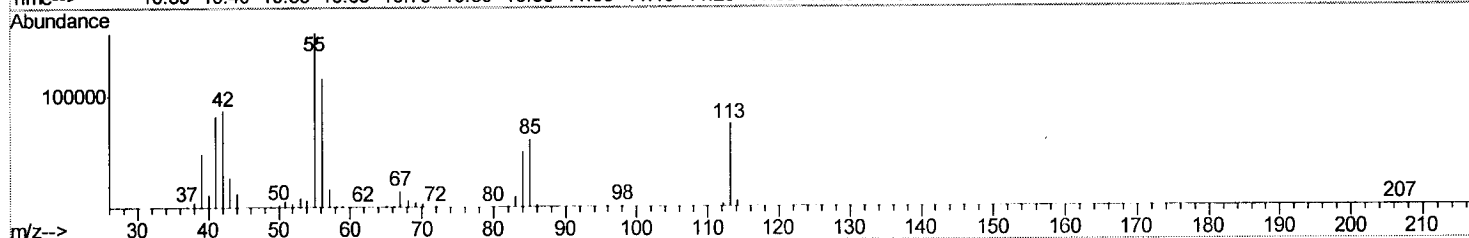
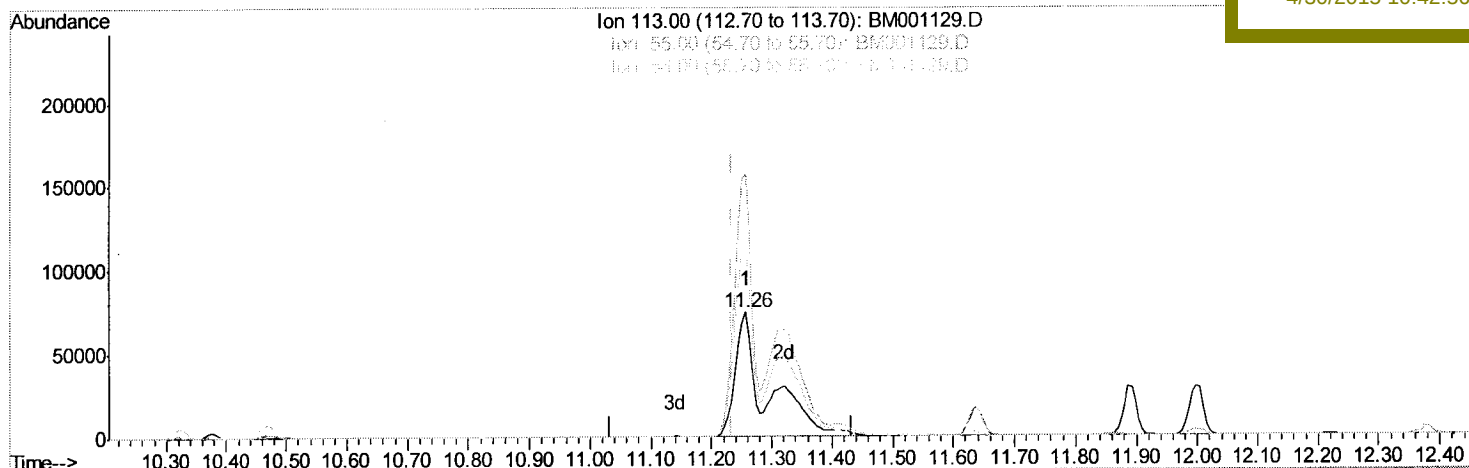
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TIC: BM001129.D

(32) Caprolactam

11.257min (+0.023) 96.72ng/ul m

response 266613

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100    | 100    |
| 55.00  | 206.00 | 211.76 |
| 56.00  | 149.40 | 157.16 |
| 0.00   | 0.00   | 0.00   |

TP  
 04/30/15

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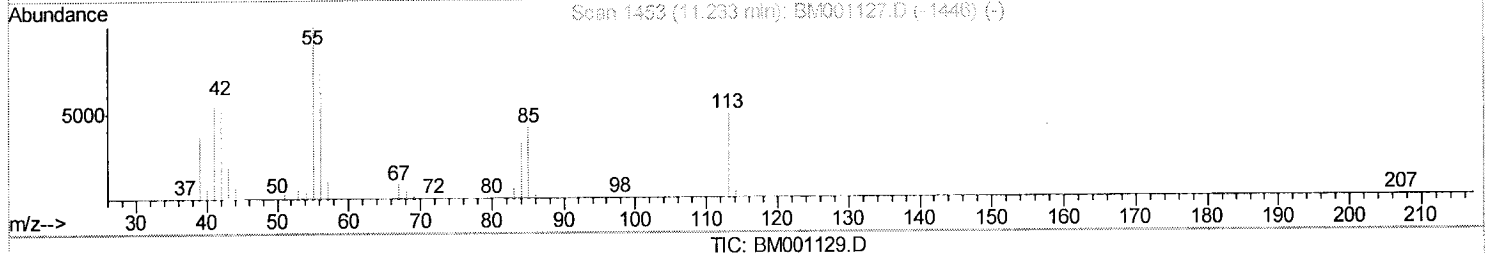
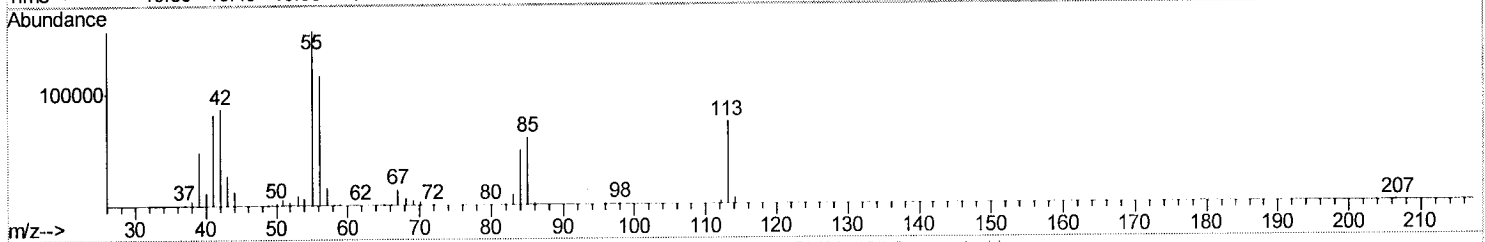
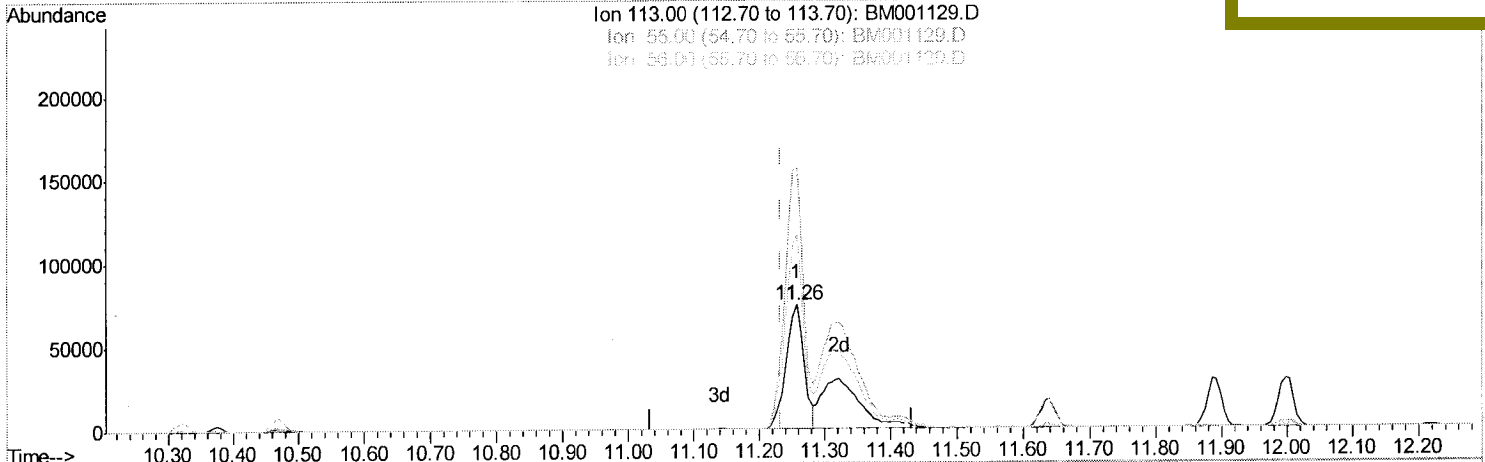
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(32) Caprolactam

11.257min (+0.023) 51.33ng/ul

response 141491

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100    | 100    |
| 55.00  | 206.00 | 211.76 |
| 56.00  | 149.40 | 157.16 |
| 0.00   | 0.00   | 0.00   |