

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW121418\  
Quantitation Report (QT Reviewed)

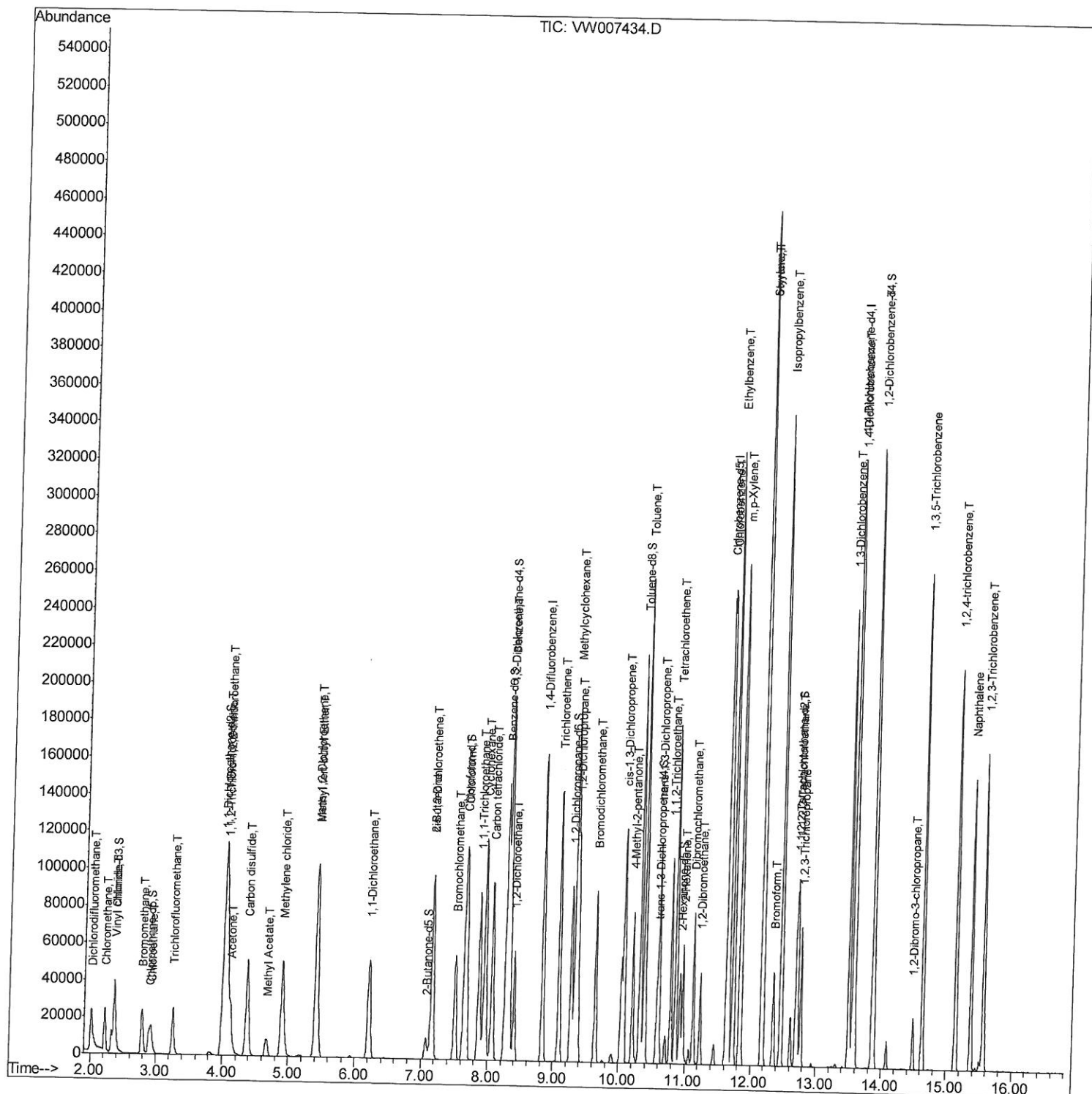
Data File : VW007434.D  
Acq On : 12 Dec 2018 10:57  
Operator : SY/AP  
Sample : VSTDCCC025  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
LabSampleId :  
VSTD02586

Manual Integrations  
APPROVED

MMDadoda  
12/14/2018 12:01:37 AM

Quant Time: Dec 13 00:35:00 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120718S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Dec 11 01:18:15 2018  
Response via : Initial Calibration



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW121418\  
Quantitation Report (Qedit)

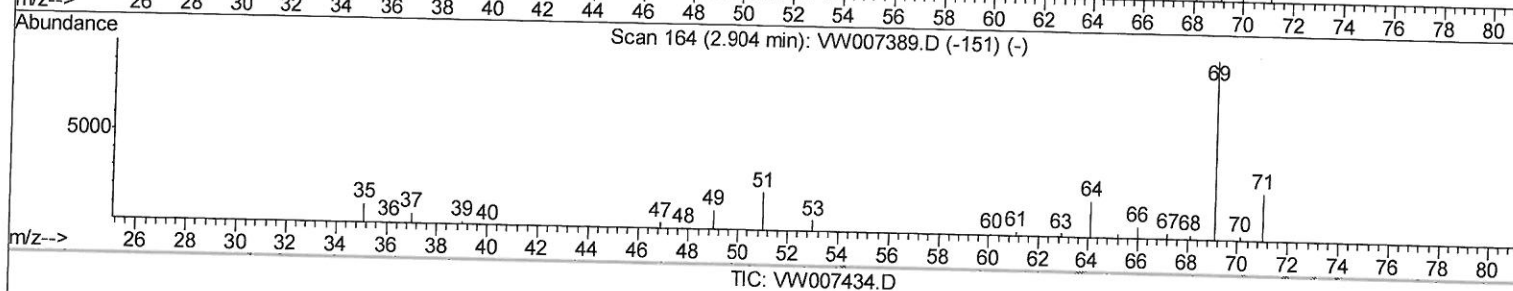
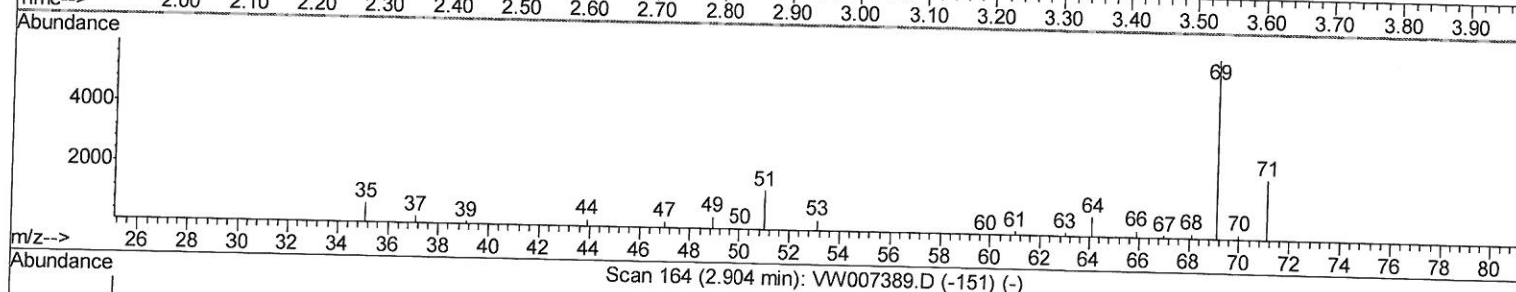
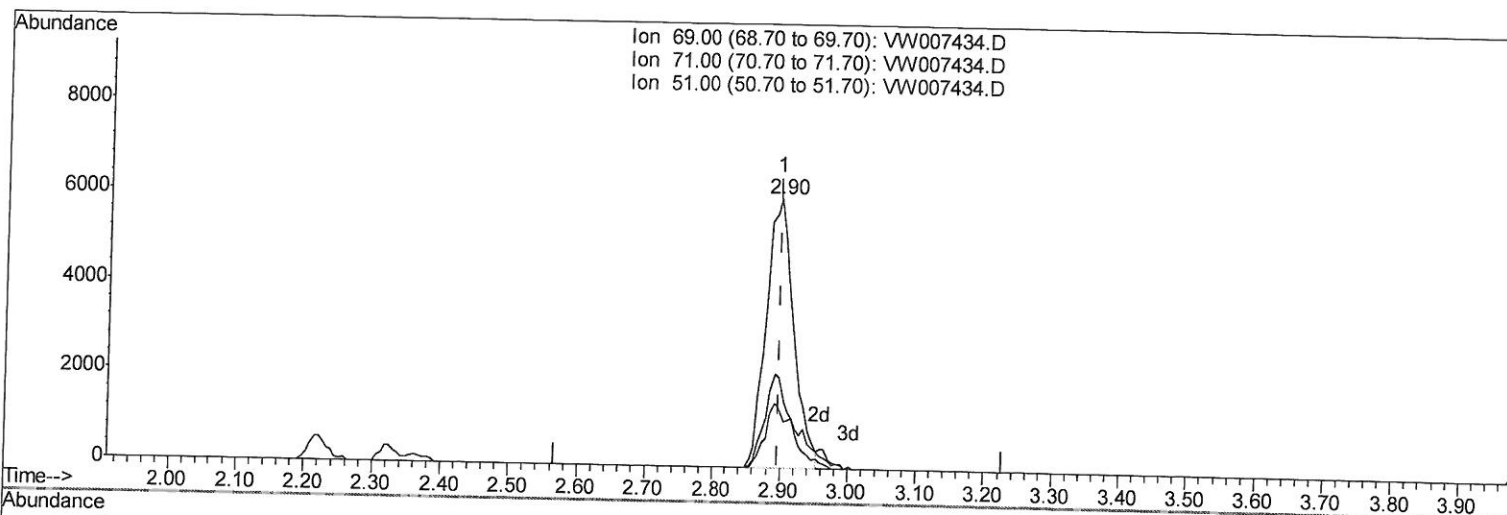
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Quant Time: Dec 13 00:32:36 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120718S.M  
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(7) Chloroethane-d5 (S)

2.898min (+0.000) 20.89ug/L

response 16616

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 69.00 | 100   | 100   |
| 71.00 | 32.70 | 33.01 |
| 51.00 | 28.00 | 14.68 |
| 0.00  | 0.00  | 0.00  |

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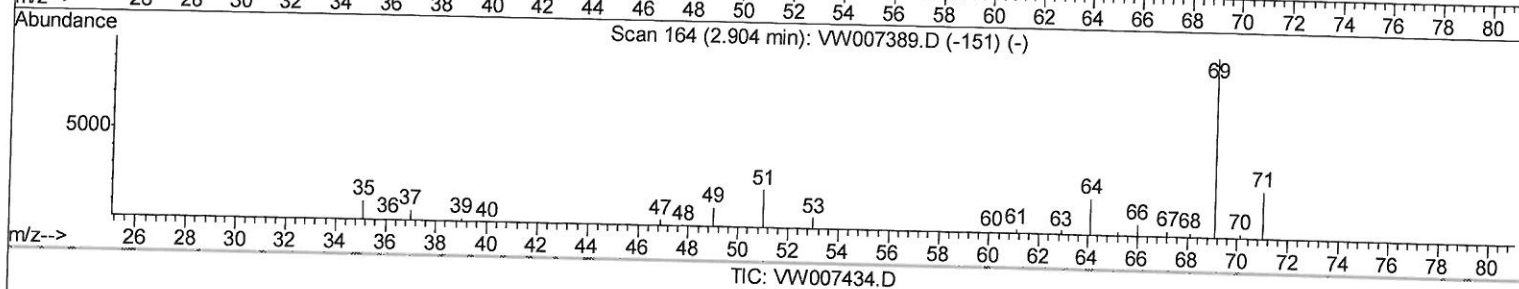
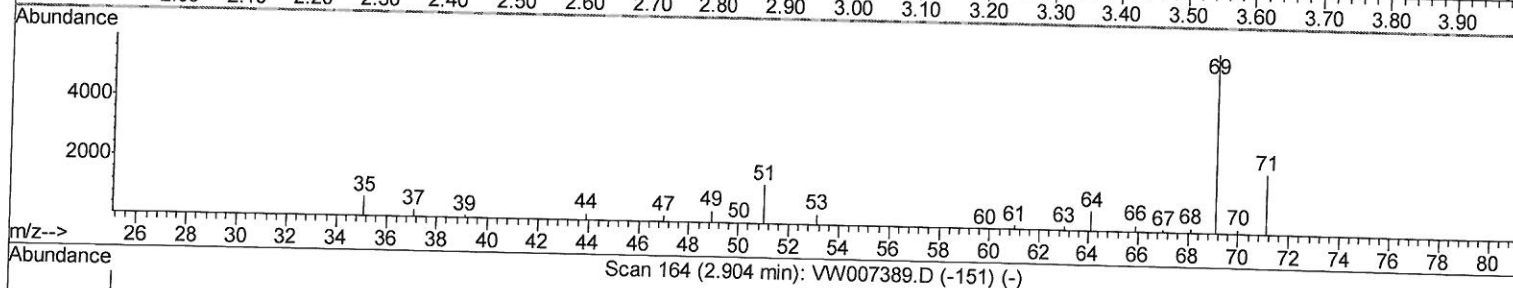
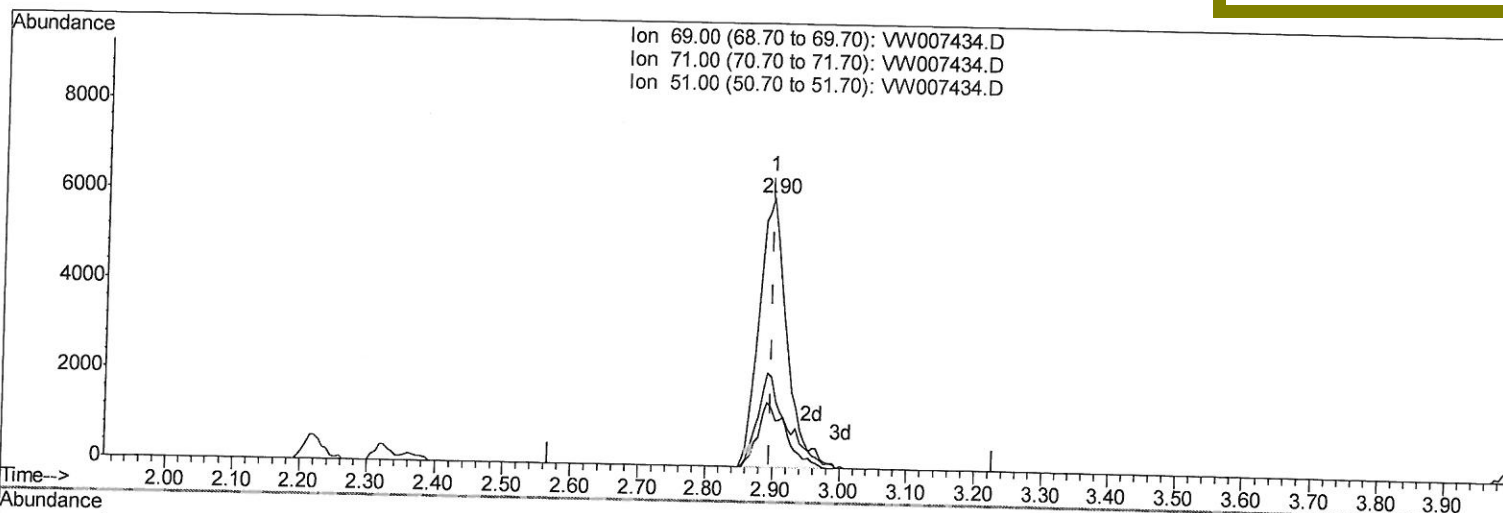
Data File : VW007434.D  
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LabSampleId :  
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Manual Integrations  
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12/14/2018 12:01:37 AM



(7) Chloroethane-d5 (S)

2.898min (+0.000) 21.55ug/L m

response 17142

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 69.00 | 100   | 100   |
| 71.00 | 32.70 | 32.00 |
| 51.00 | 28.00 | 14.23 |
| 0.00  | 0.00  | 0.00  |

12/13/18 SY



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Operator : SY/AP  
Sample : VSTDCCC025  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
LabSampleId :  
VSTD02586

Manual Integrations  
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Quant Time: Dec 13 00:35:00 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120718S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Dec 11 01:18:15 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 144207   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 128625   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 65027    | 25.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |        |       |          |          |          |      |
|--------------------------------|--------|-------|----------|----------|----------|------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 22040    | 23.46    | ug/L     | 0.00 |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | = 93.84% |      |
| 7) Chloroethane-d5             | 2.90   | 69    | 17142m   | 21.55    | ug/L     | 0.00 |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | = 86.20% |      |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 77940    | 24.06    | ug/L     | 0.00 |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | = 96.24% |      |
| 20) 2-Butanone-d5              | 7.07   | 46    | 19474    | 32.89    | ug/L     | 0.00 |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | = 65.78% |      |
| 24) Chloroform-d               | 7.65   | 84    | 79397    | 23.34    | ug/L     | 0.00 |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | = 93.36% |      |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 42528    | 21.97    | ug/L     | 0.00 |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | = 87.88% |      |
| 29) Benzene-d6                 | 8.27   | 84    | 149160   | 21.35    | ug/L     | 0.00 |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | = 85.40% |      |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 42644    | 21.39    | ug/L     | 0.00 |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | = 85.56% |      |
| 37) Toluene-d8                 | 10.32  | 98    | 146262   | 22.33    | ug/L     | 0.00 |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | = 89.32% |      |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 22221    | 21.80    | ug/L     | 0.00 |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | = 87.20% |      |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 16255    | 33.87    | ug/L     | 0.00 |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | = 67.74% |      |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 36316    | 19.99    | ug/L     | 0.00 |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | = 79.96% |      |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 53435    | 23.36    | ug/L     | 0.00 |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | = 93.44% |      |

Target Compounds

|                                |      |     |        |        | Qvalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 38937  | 24.724 | ug/L 95   |
| 3) Chloromethane               | 2.22 | 50  | 25022  | 19.847 | ug/L 100  |
| 5) Vinyl chloride              | 2.37 | 62  | 30298  | 25.473 | ug/L 97   |
| 6) Bromomethane                | 2.78 | 94  | 18971  | 23.060 | ug/L 99   |
| 8) Chloroethane                | 2.93 | 64  | 16224  | 22.660 | ug/L 90   |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 29211  | 21.395 | ug/L 98   |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 45303  | 24.891 | ug/L 98   |
| 12) 1,1-Dichloroethene         | 4.03 | 96  | 42333  | 24.997 | ug/L 94   |
| 13) Acetone                    | 4.12 | 43  | 22764  | 33.065 | ug/L 100  |
| 14) Carbon disulfide           | 4.37 | 76  | 124930 | 25.265 | ug/L 99   |
| 15) Methyl Acetate             | 4.67 | 43  | 18057  | 17.491 | ug/L # 89 |
| 16) Methylene chloride         | 4.91 | 84  | 43752  | 18.777 | ug/L 93   |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 61594  | 22.367 | ug/L 99   |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 44456  | 24.468 | ug/L 95   |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 76205  | 24.606 | ug/L 96   |
| 21) 2-Butanone                 | 7.17 | 43  | 25456  | 34.401 | ug/L 99   |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 48086  | 24.051 | ug/L 98   |

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 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 11 01:18:15 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 21572    | 23.668 | ug/L  | 92       |
| 25) Chloroform                 | 7.67  | 83   | 84098    | 25.097 | ug/L  | 100      |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 56019    | 23.386 | ug/L  | 99       |
| 30) Cyclohexane                | 7.95  | 56   | 70132    | 22.728 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 76015    | 25.110 | ug/L  | 99       |
| 32) Carbon tetrachloride       | 8.06  | 117  | 72843    | 24.900 | ug/L  | 98       |
| 34) Benzene                    | 8.32  | 78   | 171577   | 23.272 | ug/L  | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 49879    | 23.593 | ug/L  | 99       |
| 36) Methylcyclohexane          | 9.34  | 83   | 84713    | 23.212 | ug/L  | 98       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 41910    | 23.239 | ug/L  | 100      |
| 41) Bromodichloromethane       | 9.64  | 83   | 61716    | 23.833 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 70469    | 23.267 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 50281    | 35.224 | ug/L  | 99       |
| 44) Toluene                    | 10.39 | 91   | 195779   | 24.637 | ug/L  | 93       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 62022    | 23.319 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 34052    | 22.931 | ug/L  | 97       |
| 47) Tetrachloroethene          | 10.86 | 164  | 39717    | 24.870 | ug/L  | 95       |
| 49) 2-Hexanone                 | 10.97 | 43   | 35957    | 35.841 | ug/L  | 98       |
| 50) Dibromochloromethane       | 11.13 | 129  | 43940    | 24.086 | ug/L  | 100      |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 33558    | 22.501 | ug/L  | 91       |
| 52) Chlorobenzene              | 11.66 | 112  | 128861   | 24.985 | ug/L  | 95       |
| 53) Ethylbenzene               | 11.73 | 91   | 227782   | 25.491 | ug/L  | 97       |
| 54) m,p-Xylene                 | 11.84 | 106  | 86480    | 25.477 | ug/L  | 88       |
| 55) o-xylene                   | 12.17 | 106  | 83056    | 25.892 | ug/L  | 99       |
| 56) Styrene                    | 12.18 | 104  | 141500   | 25.733 | ug/L  | 95       |
| 57) Isopropylbenzene           | 12.47 | 105  | 234472   | 26.189 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 39968    | 21.711 | ug/L  | 94       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 30123    | 20.672 | ug/L  | 99       |
| 62) Bromoform                  | 12.35 | 173  | 24533    | 22.030 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.51 | 146  | 104275   | 24.961 | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 105266   | 25.276 | ug/L  | 92       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 95636    | 25.580 | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 7351     | 18.564 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 77518    | 25.616 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 15.14 | 180  | 65723    | 25.191 | ug/L  | 96       |
| 69) Naphthalene                | 15.37 | 128  | 137758   | 21.361 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.57 | 180  | 57857    | 24.393 | ug/L  | 98       |

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