

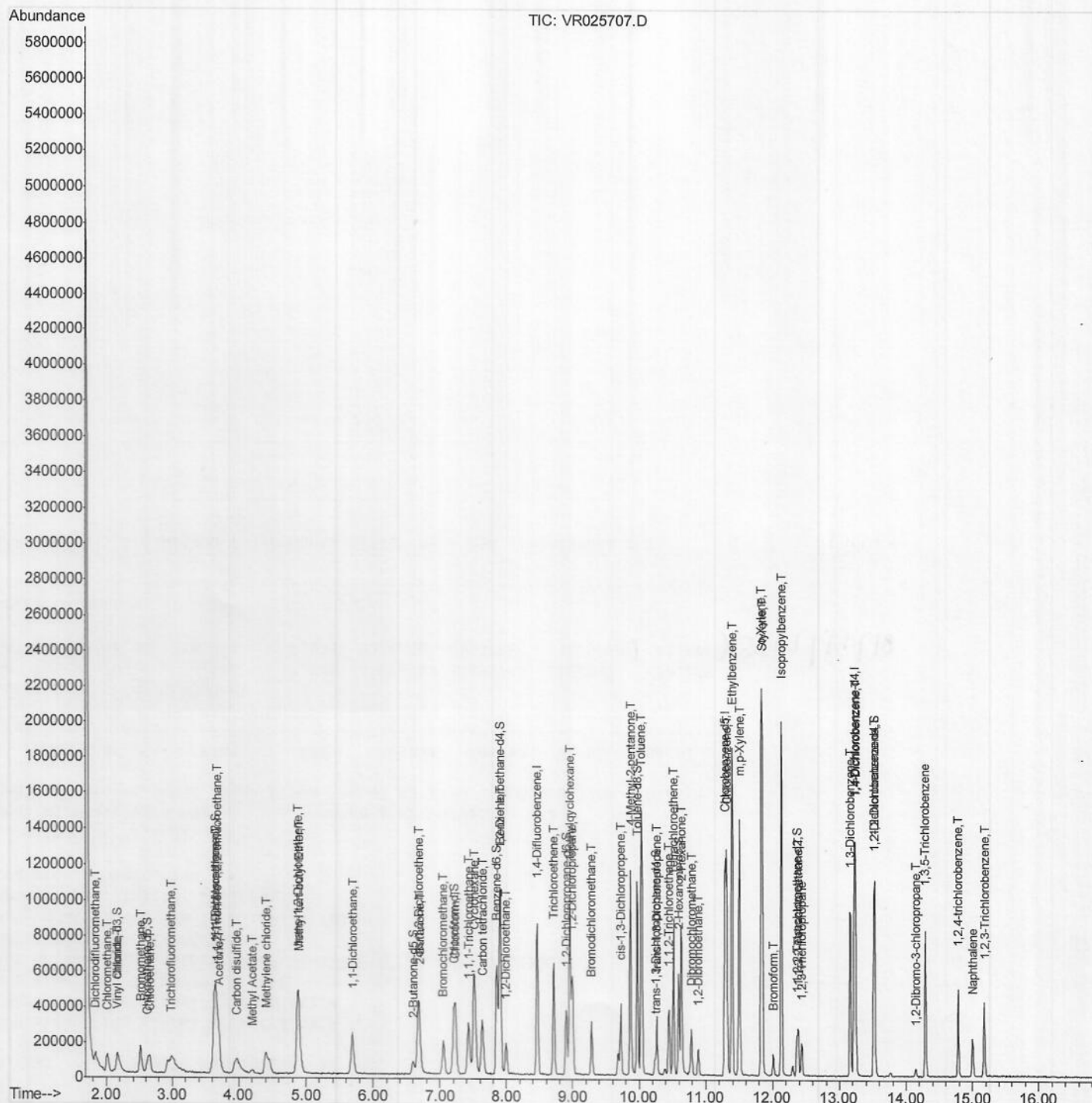
Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR091218\  
Data File : VR025707.D  
Acq On : 12 Sep 2018 22:16  
Operator : SY/MD  
Sample : VSTDCCC005EC  
Misc : 25mL/MSVOA R/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_R  
Lab Sample Id :  
VSTD00598

Manual Integrations  
APPROVED

MMDadoda  
9/14/2018 3:01:15 PM

Quant Time: Sep 13 05:17:47 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR090718WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Sep 13 03:48:20 2018  
Response via : Initial Calibration



# Quantitation Report (Qedit)

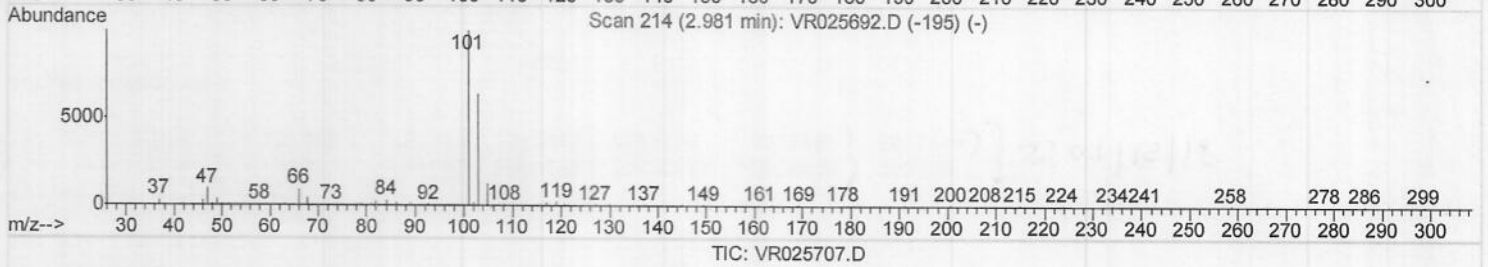
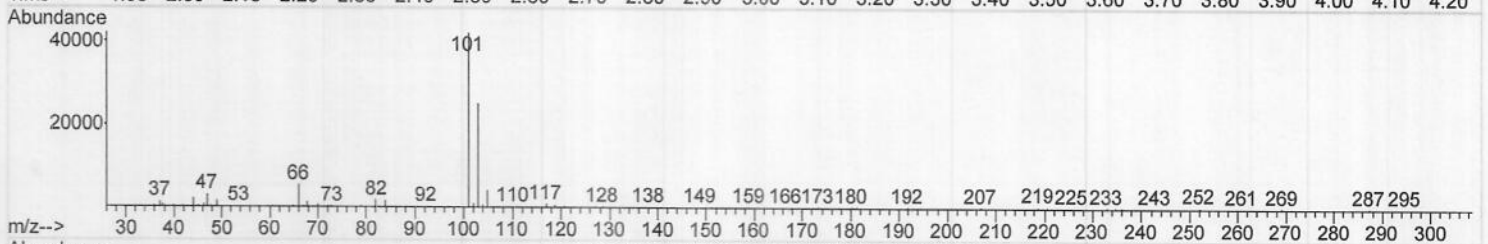
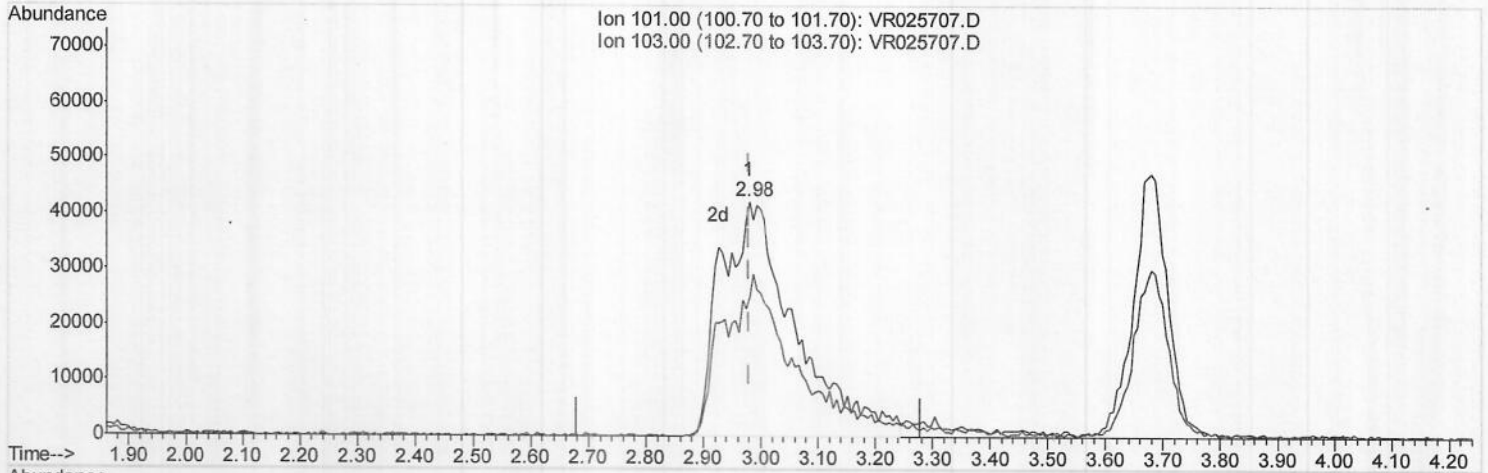
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(9) Trichlorofluoromethane (T)

2.981min (+0.000) 4.92ug/L m ) MD 09/15/18

response 378923

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 101.00 | 100   | 100   |
| 103.00 | 16.50 | 16.47 |
| 0.00   | 0.00  | 0.00  |
| 0.00   | 0.00  | 0.00  |



# Quantitation Report (Qedit)

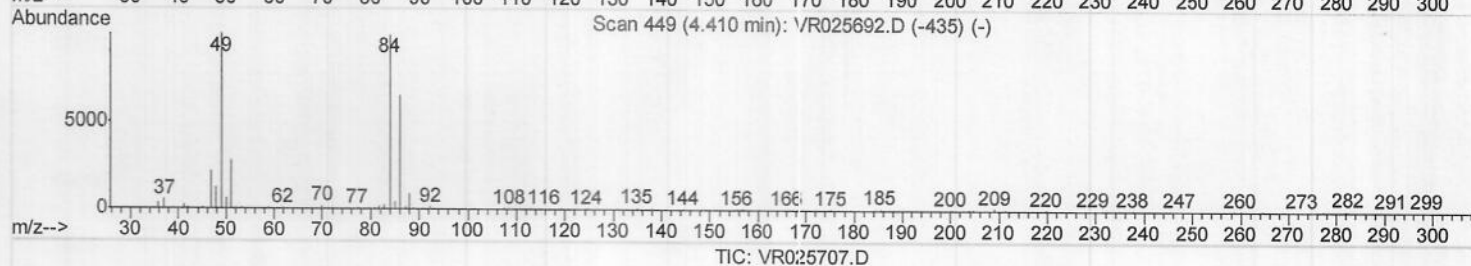
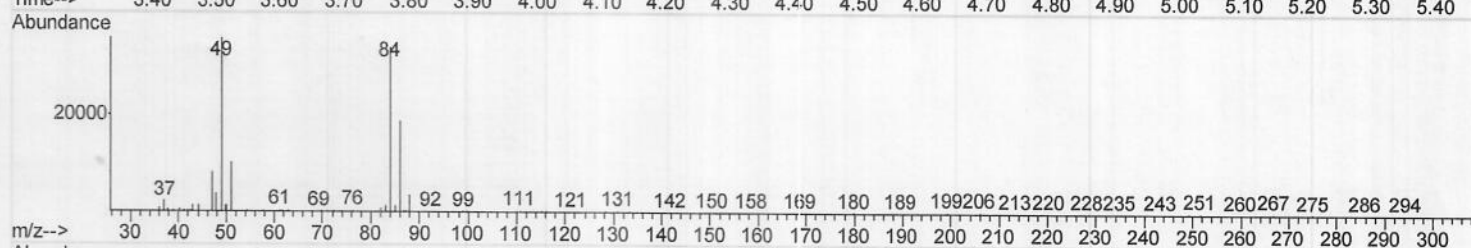
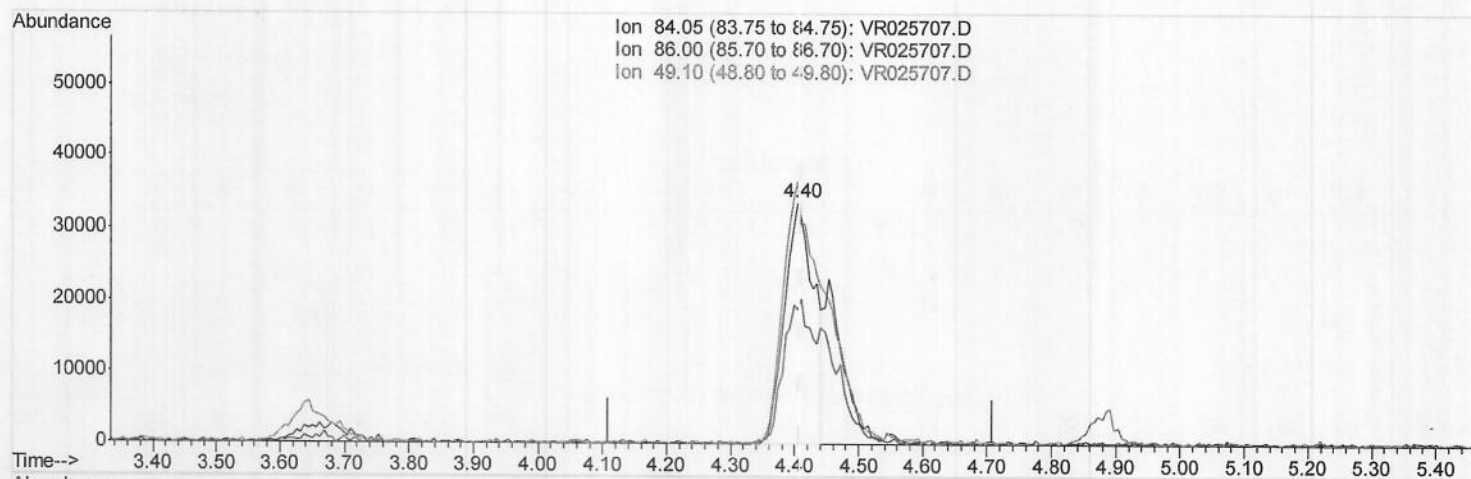
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 Response via : Initial Calibration



(16) Methylene chloride (T)

4.404min (-0.006) 2.78ug/L

response 107697

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 84.05 | 100    | 100    |
| 86.00 | 66.40  | 56.51  |
| 49.10 | 110.60 | 108.87 |
| 0.00  | 0.00   | 0.00   |

# Quantitation Report (Qedit)

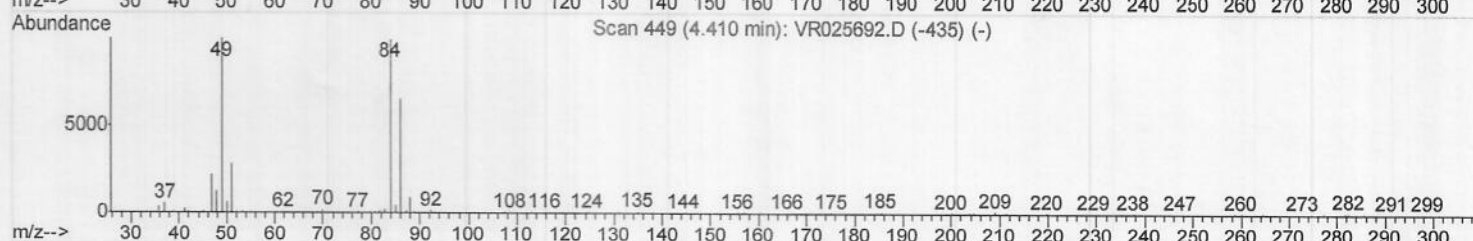
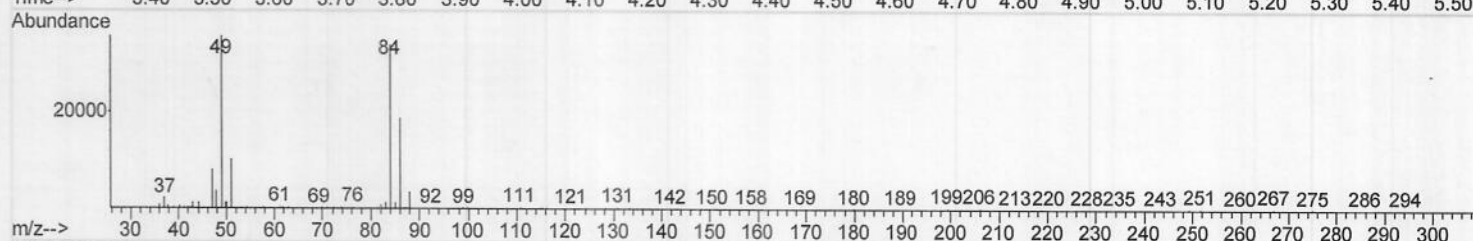
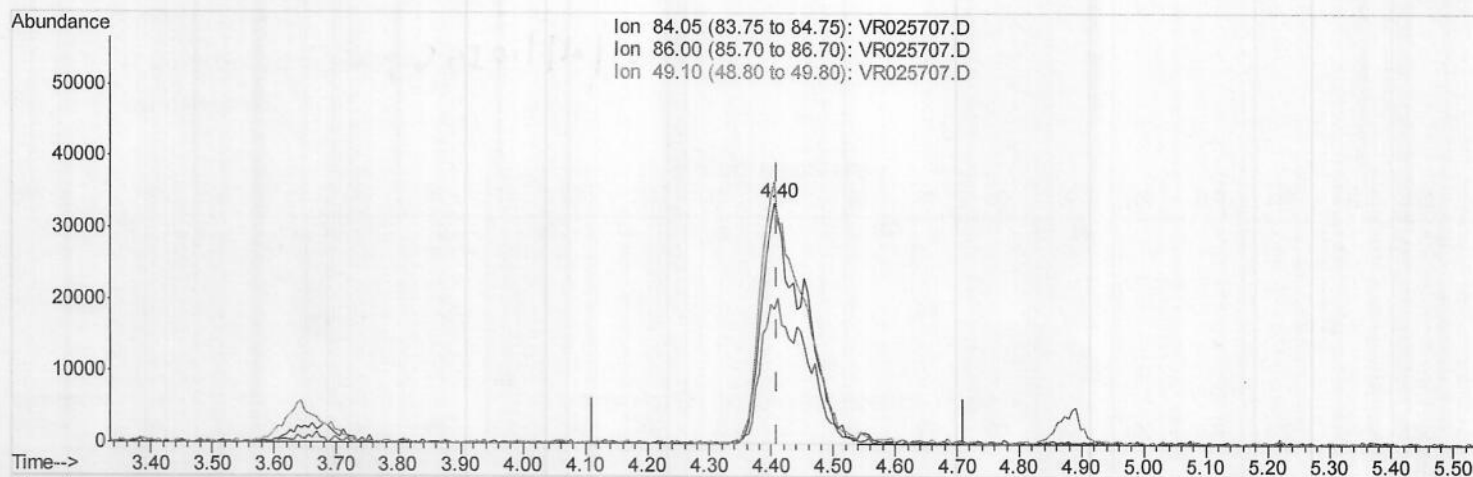
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 Response via : Initial Calibration



TIC: VR025707.D

(16) Methylene chloride (T)

4.404min (-0.006) 4.04ug/L m )MPO9/15/18

response 156603

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 84.05 | 100    | 100    |
| 86.00 | 66.40  | 55.70  |
| 49.10 | 110.60 | 105.29 |
| 0.00  | 0.00   | 0.00   |



# Quantitation Report (Qedit)

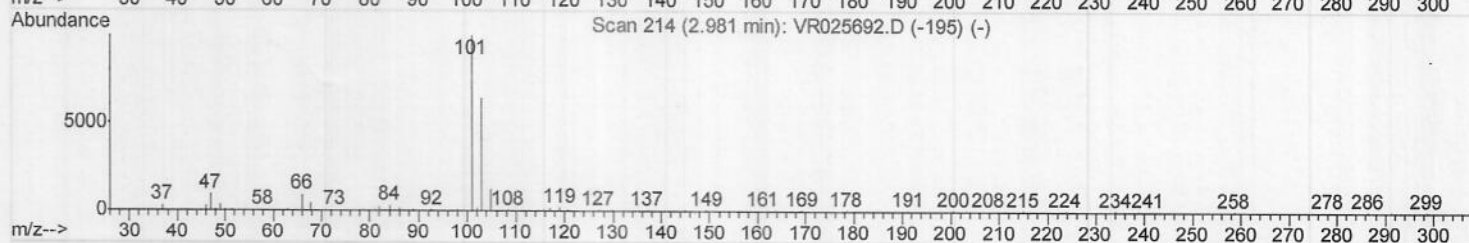
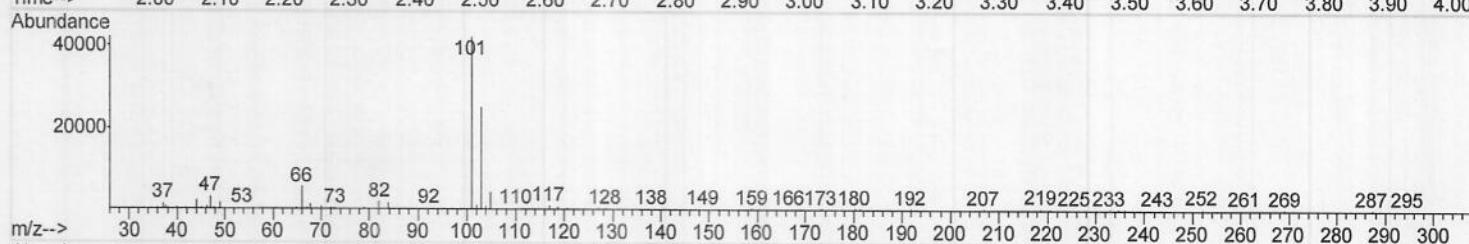
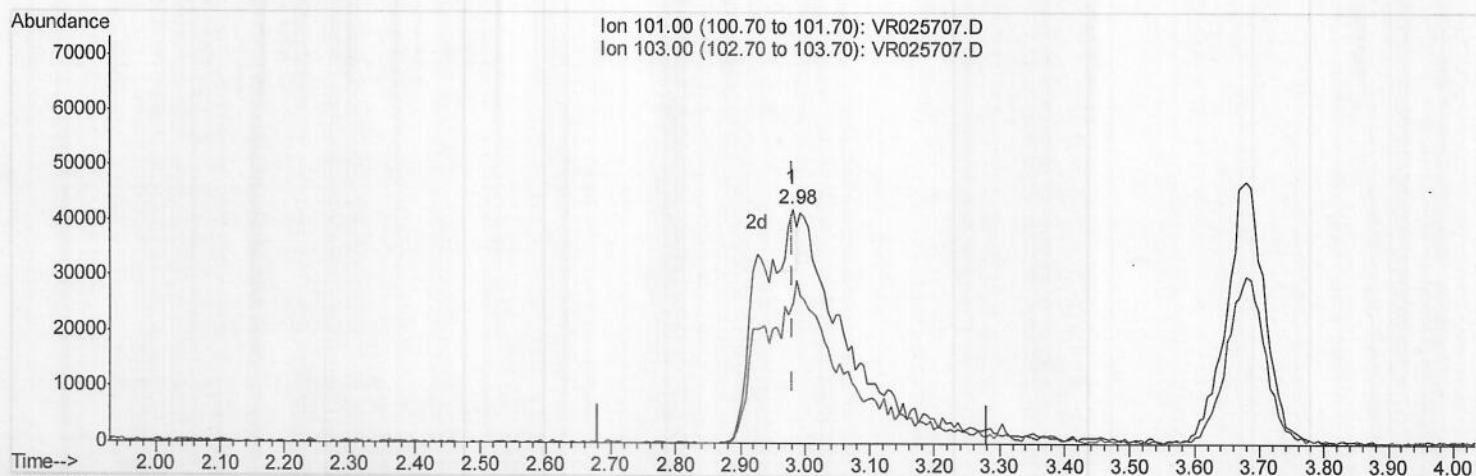
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TIC: VR025707.D

(9) Trichlorofluoromethane (T)

2.981min (+0.000) 0.14ug/L

response 10681

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 101.00 | 100   | 100     |
| 103.00 | 16.50 | 584.21# |
| 0.00   | 0.00  | 0.00    |
| 0.00   | 0.00  | 0.00    |

## Quantitation Report (QT Reviewed)

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Manual Integrations  
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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Sep 13 03:48:20 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 670967   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 601091   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 275565   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |          |       |          |       |         |      |
|--------------------------------|----------|-------|----------|-------|---------|------|
| 4) Vinyl Chloride-d3           | 2.16     | 65    | 100668   | 3.45  | ug/L    | 0.00 |
| Spiked Amount 5.000            | Range 40 | - 130 | Recovery | =     | 69.00%  |      |
| 7) Chloroethane-d5             | 2.62     | 69    | 93657    | 3.92  | ug/L    | 0.00 |
| Spiked Amount 5.000            | Range 65 | - 130 | Recovery | =     | 78.40%  |      |
| 11) 1,1-Dichloroethene-d2      | 3.64     | 63    | 332877   | 4.17  | ug/L    | 0.00 |
| Spiked Amount 5.000            | Range 60 | - 125 | Recovery | =     | 83.40%  |      |
| 20) 2-Butanone-d5              | 6.60     | 46    | 131982   | 44.82 | ug/L    | 0.00 |
| Spiked Amount 50.000           | Range 40 | - 130 | Recovery | =     | 89.64%  |      |
| 24) Chloroform-d               | 7.20     | 84    | 293113   | 4.39  | ug/L    | 0.00 |
| Spiked Amount 5.000            | Range 70 | - 125 | Recovery | =     | 87.80%  |      |
| 26) 1,2-Dichloroethane-d4      | 7.90     | 65    | 104715   | 4.63  | ug/L    | 0.00 |
| Spiked Amount 5.000            | Range 70 | - 130 | Recovery | =     | 92.60%  |      |
| 32) Benzene-d6                 | 7.85     | 84    | 674819   | 4.15  | ug/L    | 0.00 |
| Spiked Amount 5.000            | Range 70 | - 125 | Recovery | =     | 83.00%  |      |
| 36) 1,2-Dichloropropane-d6     | 8.90     | 67    | 177341   | 4.05  | ug/L    | 0.00 |
| Spiked Amount 5.000            | Range 60 | - 140 | Recovery | =     | 81.00%  |      |
| 41) Toluene-d8                 | 9.97     | 98    | 670651   | 4.32  | ug/L    | 0.00 |
| Spiked Amount 5.000            | Range 70 | - 130 | Recovery | =     | 86.40%  |      |
| 43) trans-1,3-Dichloropropene- | 10.24    | 79    | 40477    | 3.75  | ug/L    | 0.00 |
| Spiked Amount 5.000            | Range 55 | - 130 | Recovery | =     | 75.00%  |      |
| 46) 2-Hexanone-d5              | 10.59    | 63    | 181478   | 56.16 | ug/L    | 0.00 |
| Spiked Amount 50.000           | Range 45 | - 130 | Recovery | =     | 112.32% |      |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36    | 84    | 97293    | 5.08  | ug/L    | 0.00 |
| Spiked Amount 5.000            | Range 65 | - 120 | Recovery | =     | 101.60% |      |
| 64) 1,2-Dichlorobenzene-d4     | 13.51    | 152   | 160102   | 4.10  | ug/L    | 0.00 |
| Spiked Amount 5.000            | Range 80 | - 120 | Recovery | =     | 82.00%  |      |

## Target Compounds

|                                |      |     |         |            | Ovalue |
|--------------------------------|------|-----|---------|------------|--------|
| 2) Dichlorodifluoromethane     | 1.83 | 85  | 159598  | 4.66 ug/L  | # 87   |
| 3) Chloromethane               | 2.01 | 50  | 158380  | 3.77 ug/L  | 97     |
| 5) Vinyl chloride              | 2.17 | 62  | 169700  | 4.07 ug/L  | 91     |
| 6) Bromomethane                | 2.52 | 94  | 127960  | 4.28 ug/L  | 96     |
| 8) Chloroethane                | 2.66 | 64  | 101375  | 4.14 ug/L  | 100    |
| 9) Trichlorofluoromethane      | 2.98 | 101 | 378923m | 4.92 ug/L  |        |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.68 | 101 | 191289  | 4.61 ug/L  | 94     |
| 12) 1,1-Dichloroethene         | 3.65 | 96  | 180173  | 4.12 ug/L  | 91     |
| 13) Acetone                    | 3.70 | 43  | 100791  | 50.79 ug/L | 95     |
| 14) Carbon disulfide           | 3.96 | 76  | 406226  | 3.93 ug/L  | # 92   |
| 15) Methyl Acetate             | 4.20 | 43  | 31003   | 4.38 ug/L  | 97     |
| 16) Methylene chloride         | 4.40 | 84  | 156603m | 4.04 ug/L  |        |
| 17) Methyl tert-butyl Ether    | 4.90 | 73  | 261688  | 4.86 ug/L  | 96     |
| 18) trans-1,2-Dichloroethene   | 4.88 | 96  | 239250  | 4.47 ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 5.69 | 63  | 353238  | 4.28 ug/L  | 97     |
| 21) 2-Butanone                 | 6.70 | 43  | 235488  | 56.23 ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 6.67 | 96  | 214737  | 4.61 ug/L  | # 98   |

MD 09/15/18



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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Sep 13 03:48:20 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane         | 7.05  | 128  | 74928    | 4.69  | ug/L # | 91       |
| 25) Chloroform                 | 7.23  | 83   | 337055   | 4.47  | ug/L   | 90       |
| 27) 1,2-Dichloroethane         | 7.99  | 62   | 144486   | 4.86  | ug/L   | 97       |
| 29) 1,1,1-Trichloroethane      | 7.43  | 97   | 259160   | 4.33  | ug/L   | 99       |
| 30) Cyclohexane                | 7.51  | 56   | 348816   | 4.85  | ug/L   | 95       |
| 31) Carbon tetrachloride       | 7.64  | 117  | 257337   | 4.43  | ug/L   | 97       |
| 33) Benzene                    | 7.91  | 78   | 950711   | 4.44  | ug/L   | 100      |
| 34) Trichloroethene            | 8.71  | 95   | 205675   | 3.96  | ug/L   | 99       |
| 35) Methylcyclohexane          | 8.96  | 83   | 387984   | 4.84  | ug/L   | 99       |
| 37) 1,2-Dichloropropane        | 9.00  | 63   | 221429   | 4.59  | ug/L   | 99       |
| 38) Bromodichloromethane       | 9.28  | 83   | 192996   | 4.45  | ug/L   | 95       |
| 39) cis-1,3-Dichloropropene    | 9.72  | 75   | 224840   | 4.55  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone       | 9.87  | 43   | 682234   | 57.17 | ug/L   | 99       |
| 42) Toluene                    | 10.04 | 91   | 1017174  | 4.64  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene  | 10.26 | 75   | 153024   | 4.41  | ug/L   | 94       |
| 45) 1,1,2-Trichloroethane      | 10.45 | 97   | 107743   | 4.76  | ug/L   | 93       |
| 47) Tetrachloroethene          | 10.51 | 164  | 187911   | 4.42  | ug/L   | 98       |
| 48) 2-Hexanone                 | 10.63 | 43   | 485265   | 57.98 | ug/L   | 99       |
| 49) Dibromochloromethane       | 10.79 | 129  | 117519   | 4.88  | ug/L   | 98       |
| 50) 1,2-Dibromoethane          | 10.89 | 107  | 87402    | 4.87  | ug/L   | 91       |
| 51) Chlorobenzene              | 11.32 | 112  | 634322   | 4.60  | ug/L   | 99       |
| 52) Ethylbenzene               | 11.39 | 91   | 1128373  | 4.78  | ug/L   | 96       |
| 53) m,p-Xylene                 | 11.50 | 106  | 453531   | 4.77  | ug/L   | 98       |
| 54) o-Xylene                   | 11.83 | 106  | 403465   | 4.82  | ug/L   | 98       |
| 55) Styrene                    | 11.84 | 104  | 687236   | 5.10  | ug/L   | 99       |
| 56) Isopropylbenzene           | 12.13 | 105  | 1078163  | 5.17  | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.39 | 83   | 116570   | 5.29  | ug/L # | 94       |
| 59) 1,2,3-Trichloropropane     | 12.43 | 75   | 73349    | 4.95  | ug/L   | 95       |
| 61) Bromoform                  | 12.01 | 173  | 49955    | 4.24  | ug/L   | 95       |
| 62) 1,3-Dichlorobenzene        | 13.16 | 146  | 361782   | 4.20  | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene        | 13.24 | 146  | 419094   | 4.28  | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene        | 13.53 | 146  | 331338   | 4.46  | ug/L   | 94       |
| 66) 1,2-Dibromo-3-chloropropan | 14.14 | 75   | 9437     | 4.32  | ug/L # | 72       |
| 67) 1,3,5-Trichlorobenzene     | 14.29 | 180  | 225613   | 4.41  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 14.78 | 180  | 133664   | 4.26  | ug/L   | 97       |
| 69) Naphthalene                | 15.00 | 128  | 156022   | 4.44  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.18 | 180  | 126101   | 5.08  | ug/L   | 95       |

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