



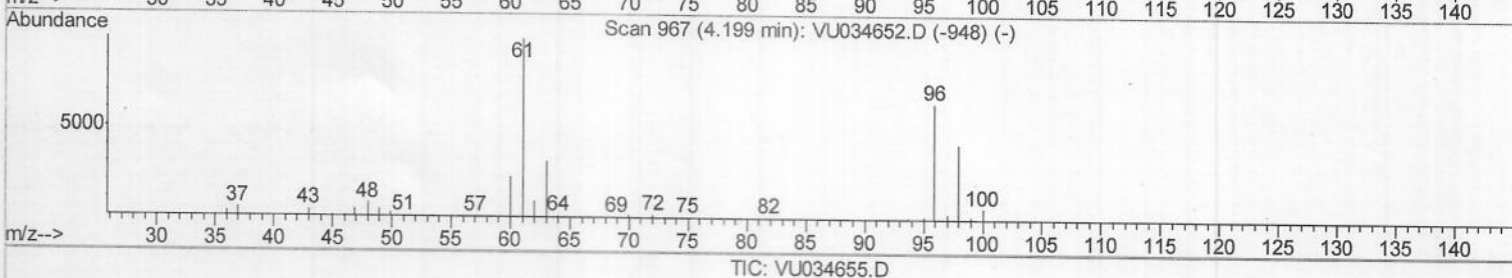
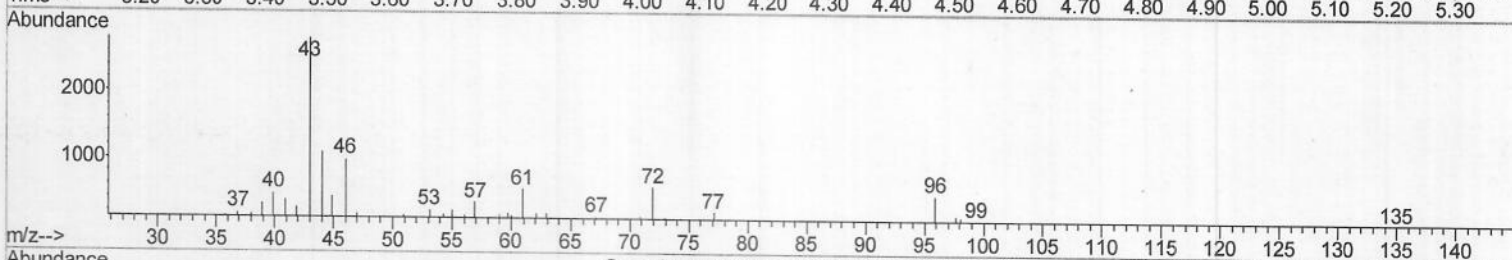
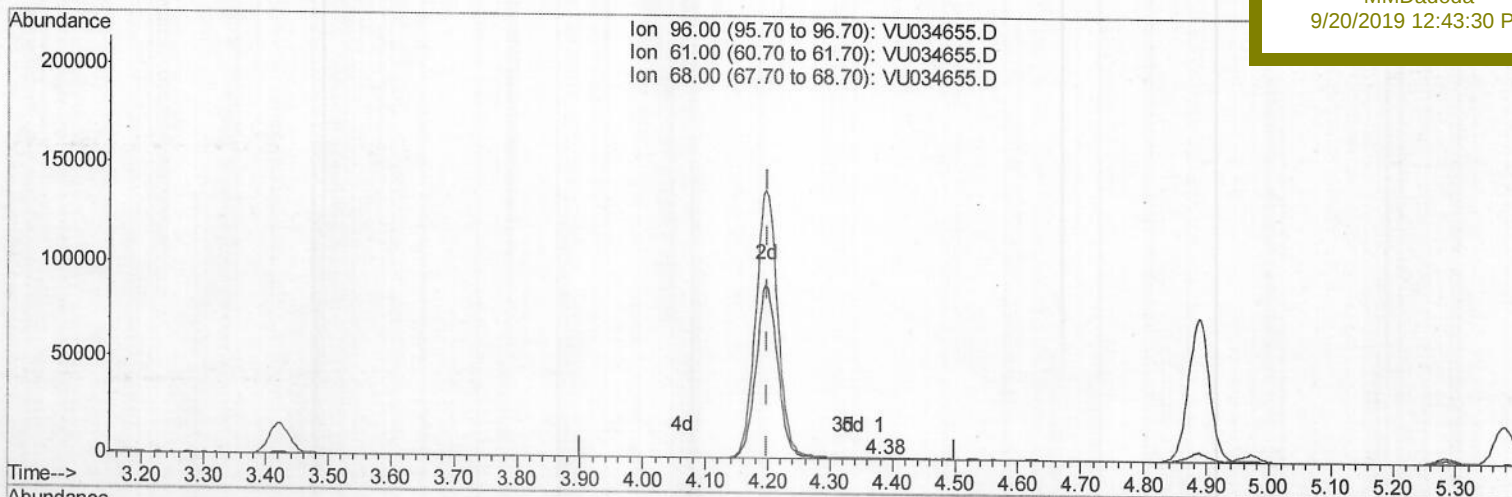
Data File : VU034655.D  
Acq On : 19 Sep 2019 17:54  
Operator : JC/SP  
Sample : VSTDICV050  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 20 03:44:15 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Sep 19 17:44:37 2019  
Response via : Initial Calibration

Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV36

Manual Integrations  
APPROVED

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9/20/2019 12:43:30 PM



(20) cis-1,2-Dichloroethene (T)

4.379min (+0.180) 0.03ug/L

response 150

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 96.00 | 100    | 100    |
| 61.00 | 155.50 | 112.45 |
| 68.00 | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

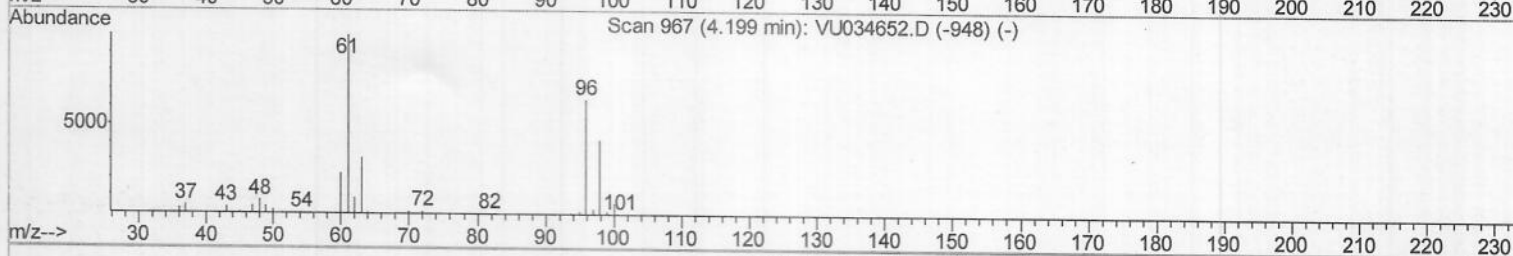
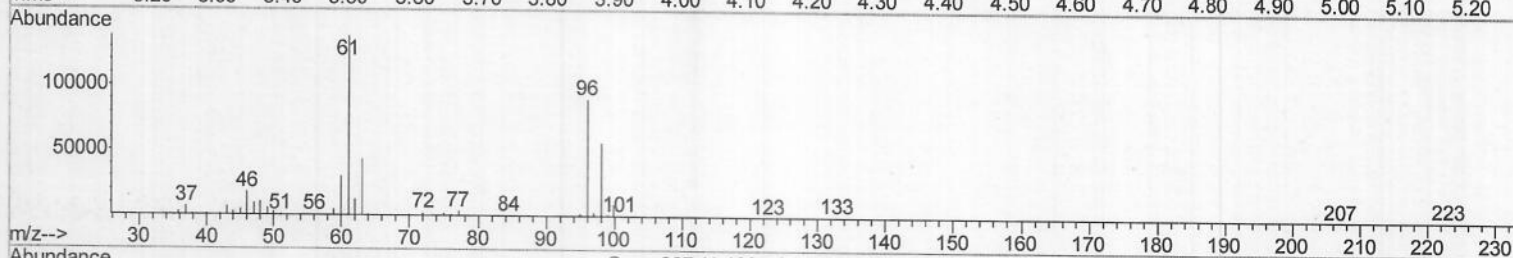
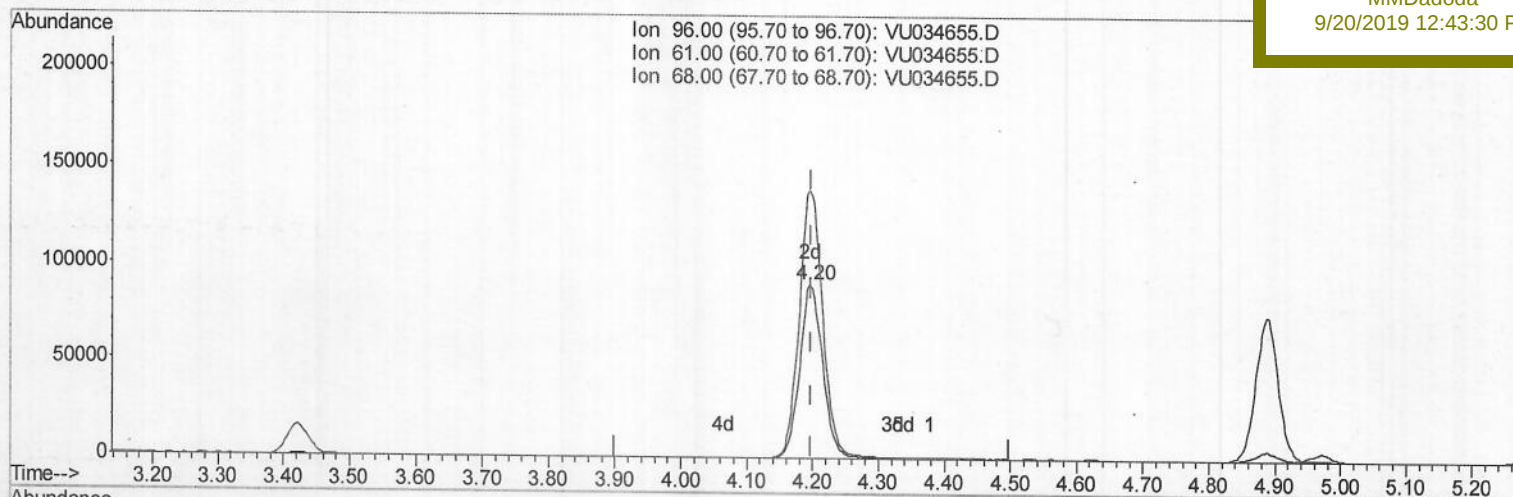
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TIC: VU034655.D

(20) cis-1,2-Dichloroethene (T)

4.196min (-0.003) 47.56ug/L m

response 216250

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 96.00 | 100    | 100    |
| 61.00 | 155.50 | 153.61 |
| 68.00 | 0.00   | 0.11#  |
| 0.00  | 0.00   | 0.00   |

M.D  
09/20/19

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU091919\

## Quantitation Report (QT Reviewed)

Data File : VU034655.D

Acq On : 19 Sep 2019 17:54

Operator : JC/SP

Sample : VSTDICV050

Misc : 5.0mL/MSVOA\_U/WATER

ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 20 03:49:17 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M

Quant Title : VOC Analysis

QLast Update : Thu Sep 19 17:44:37 2019

Response via : Initial Calibration

Instrument :

MSVOA\_U

Client Sample ID :

VICV36

Manual Integrations

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| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev (Min) |
|----------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 543659   | 50.00 | ug/L  | 0.00      |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 519619   | 50.00 | ug/L  | 0.00      |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 255495   | 50.00 | ug/L  | 0.00      |

## System Monitoring Compounds

|                                |         |                |          |        |         |      |
|--------------------------------|---------|----------------|----------|--------|---------|------|
| 4) Vinyl Chloride-d3           | 1.39    | 65             | 285756   | 51.34  | ug/L    | 0.00 |
| Spiked Amount                  | 50.000  | Range 60 - 135 | Recovery | =      | 102.68% |      |
| 7) Chloroethane-d5             | 1.67    | 69             | 222465   | 51.72  | ug/L    | 0.00 |
| Spiked Amount                  | 50.000  | Range 70 - 130 | Recovery | =      | 103.44% |      |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63             | 486005   | 51.56  | ug/L    | 0.00 |
| Spiked Amount                  | 50.000  | Range 60 - 125 | Recovery | =      | 103.12% |      |
| 21) 2-Butanone-d5              | 4.14    | 46             | 443739   | 104.03 | ug/L    | 0.00 |
| Spiked Amount                  | 100.000 | Range 40 - 130 | Recovery | =      | 104.03% |      |
| 24) Chloroform-d               | 4.62    | 84             | 425535   | 52.59  | ug/L    | 0.00 |
| Spiked Amount                  | 50.000  | Range 70 - 125 | Recovery | =      | 105.18% |      |
| 26) 1,2-Dichloroethane-d4      | 5.28    | 65             | 304440   | 51.18  | ug/L    | 0.00 |
| Spiked Amount                  | 50.000  | Range 70 - 125 | Recovery | =      | 102.36% |      |
| 32) Benzene-d6                 | 5.32    | 84             | 850797   | 52.83  | ug/L    | 0.00 |
| Spiked Amount                  | 50.000  | Range 70 - 125 | Recovery | =      | 105.66% |      |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67             | 293474   | 52.13  | ug/L    | 0.00 |
| Spiked Amount                  | 50.000  | Range 70 - 120 | Recovery | =      | 104.26% |      |
| 41) Toluene-d8                 | 7.54    | 98             | 815195   | 53.20  | ug/L    | 0.00 |
| Spiked Amount                  | 50.000  | Range 80 - 120 | Recovery | =      | 106.40% |      |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79             | 146796   | 54.45  | ug/L    | 0.00 |
| Spiked Amount                  | 50.000  | Range 60 - 125 | Recovery | =      | 108.90% |      |
| 47) 2-Hexanone-d5              | 8.29    | 63             | 284882   | 100.76 | ug/L    | 0.00 |
| Spiked Amount                  | 100.000 | Range 45 - 130 | Recovery | =      | 100.76% |      |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84             | 400318   | 51.25  | ug/L    | 0.00 |
| Spiked Amount                  | 50.000  | Range 65 - 120 | Recovery | =      | 102.50% |      |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152            | 275615   | 51.44  | ug/L    | 0.00 |
| Spiked Amount                  | 50.000  | Range 80 - 120 | Recovery | =      | 102.88% |      |

## Target Compounds

|                                |      |     |         |             | Qvalue |
|--------------------------------|------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 279925  | 49.957 ug/L | 99     |
| 3) Chloromethane               | 1.32 | 50  | 315342  | 46.982 ug/L | 100    |
| 5) Vinyl chloride              | 1.40 | 62  | 291311  | 47.521 ug/L | 99     |
| 6) Bromomethane                | 1.62 | 94  | 160919  | 48.063 ug/L | 98     |
| 8) Chloroethane                | 1.69 | 64  | 168705  | 47.804 ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 371204  | 48.024 ug/L | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 182439  | 49.227 ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 170570  | 47.954 ug/L | 98     |
| 13) Acetone                    | 2.30 | 43  | 396173  | 79.842 ug/L | 100    |
| 14) Carbon disulfide           | 2.46 | 76  | 591265  | 49.265 ug/L | 99     |
| 15) Methyl Acetate             | 2.60 | 43  | 311526  | 47.000 ug/L | 98     |
| 16) Methylene chloride         | 2.68 | 84  | 215330  | 47.791 ug/L | 95     |
| 17) trans-1,2-Dichloroethene   | 2.96 | 96  | 196145  | 50.437 ug/L | 88     |
| 18) Methyl tert-butyl Ether    | 2.98 | 73  | 700011  | 48.518 ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 424612  | 47.595 ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96  | 216250m | 47.557 ug/L |        |
| 22) 2-Butanone                 | 4.23 | 43  | 507946  | 86.047 ug/L | 99     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.52  | 128  | 102583   | 47.133 | ug/L  | 99       |
| 25) Chloroform                 | 4.65  | 83   | 416962   | 47.462 | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.38  | 62   | 356768   | 47.012 | ug/L  | 99       |
| 29) Cyclohexane                | 4.97  | 56   | 419217   | 48.879 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane      | 4.89  | 97   | 342069   | 48.368 | ug/L  | 98       |
| 31) Carbon tetrachloride       | 5.11  | 117  | 292392   | 48.510 | ug/L  | 99       |
| 33) Benzene                    | 5.36  | 78   | 883850   | 49.044 | ug/L  | 100      |
| 34) Trichloroethene            | 6.16  | 95   | 222195   | 49.923 | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.39  | 83   | 375604   | 49.729 | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.41  | 63   | 258696   | 48.209 | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.73  | 83   | 312852   | 48.074 | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene    | 7.25  | 75   | 402979   | 49.979 | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone       | 7.44  | 43   | 954992   | 93.216 | ug/L  | 99       |
| 42) Toluene                    | 7.61  | 91   | 958830   | 49.230 | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 363406   | 49.996 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.04  | 97   | 208665   | 48.546 | ug/L  | 98       |
| 46) Tetrachloroethene          | 8.21  | 164  | 158186   | 50.527 | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.34  | 43   | 771223   | 96.384 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.45  | 129  | 237914   | 49.657 | ug/L  | 94       |
| 50) 1,2-Dibromoethane          | 8.56  | 107  | 233747   | 50.458 | ug/L  | 100      |
| 51) Chlorobenzene              | 9.10  | 112  | 574831   | 48.551 | ug/L  | 99       |
| 52) Ethylbenzene               | 9.23  | 91   | 1069783  | 48.777 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.35  | 106  | 384124   | 49.448 | ug/L  | 97       |
| 54) o-xylene                   | 9.76  | 106  | 381928   | 49.708 | ug/L  | 100      |
| 55) Styrene                    | 9.77  | 104  | 654312   | 50.309 | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.14 | 105  | 1023239  | 49.391 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.43 | 83   | 397054   | 48.094 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.47 | 75   | 310560   | 46.337 | ug/L  | 97       |
| 61) Bromoform                  | 9.94  | 173  | 169374   | 48.149 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.40 | 146  | 428979   | 48.483 | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.49 | 146  | 434960   | 48.258 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 424827   | 47.519 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 90473    | 47.611 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 12.86 | 180  | 295783   | 49.893 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.48 | 180  | 256407   | 55.000 | ug/L  | 99       |
| 69) Naphthalene                | 13.72 | 128  | 897037   | 55.583 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.97 | 180  | 251824   | 52.497 | ug/L  | 96       |

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