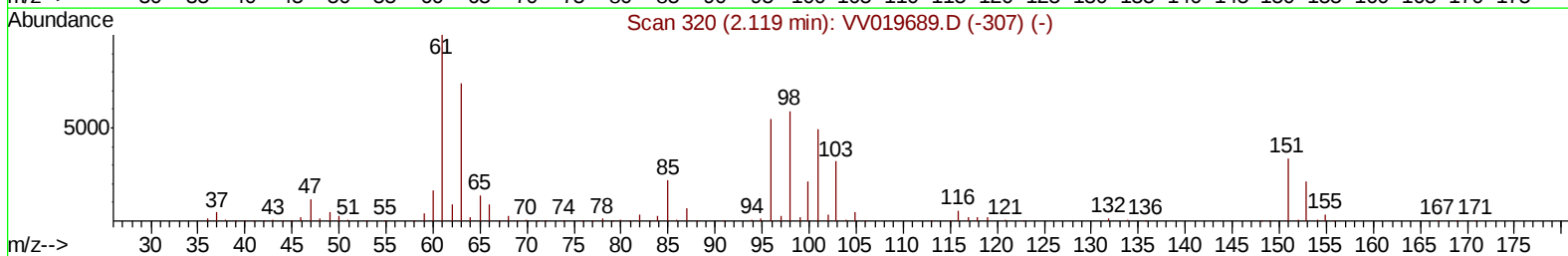
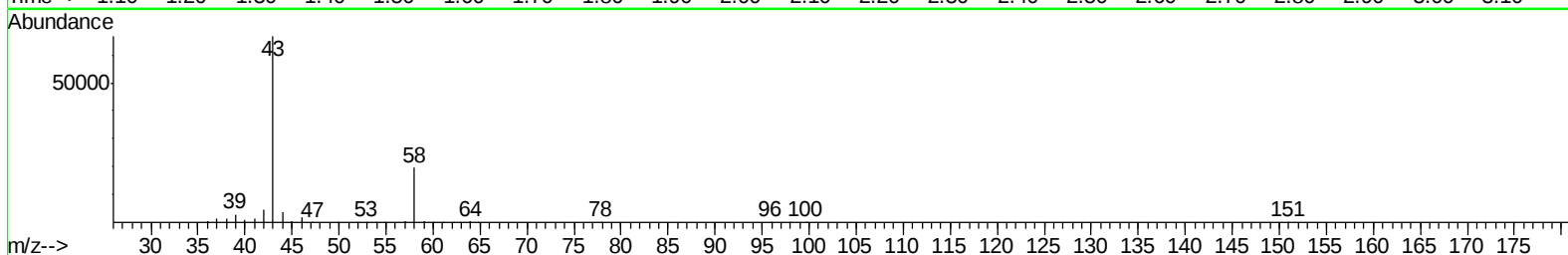
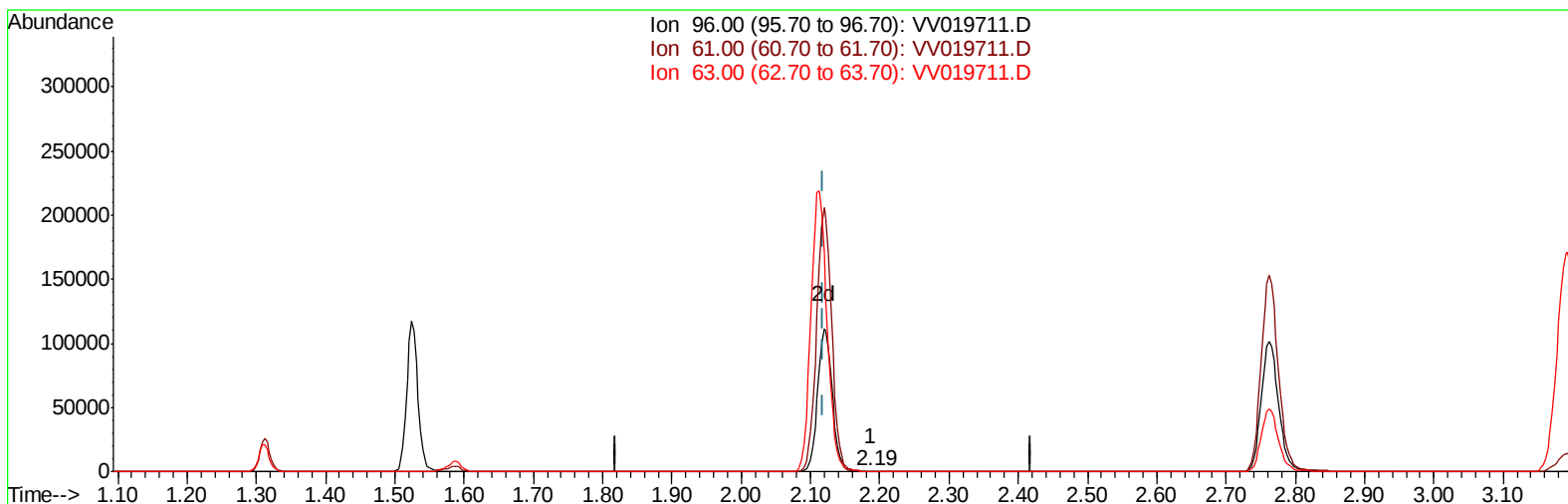


Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121820\  
 Data File : VV019711.D  
 Acq On : 18 Dec 2020 19:52  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFB68

Quant Time: Dec 19 05:29:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 19 05:26:51 2020  
 Response via : Initial Calibration



TIC: VV019711.D

(12) 1,1-Dichloroethene (T)

2.187min (+0.067) 0.01ug/L

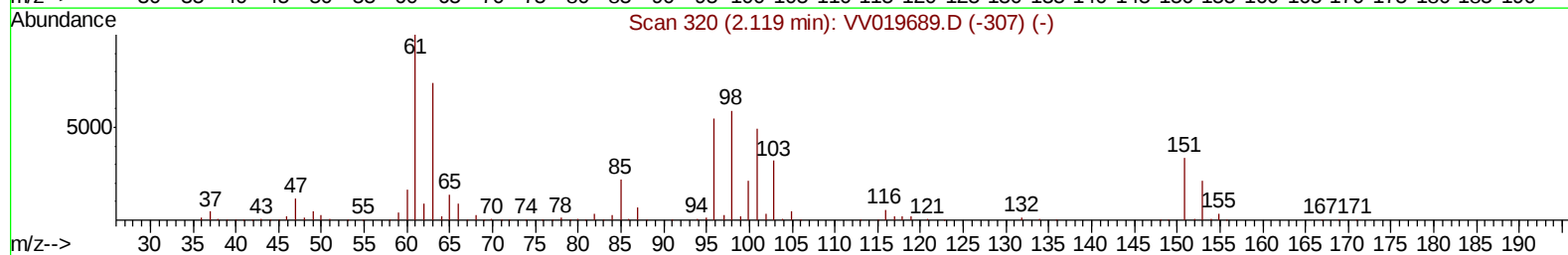
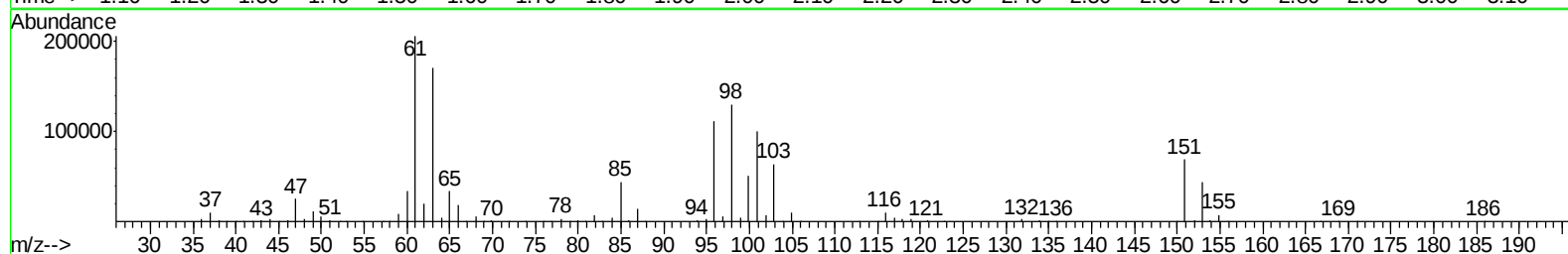
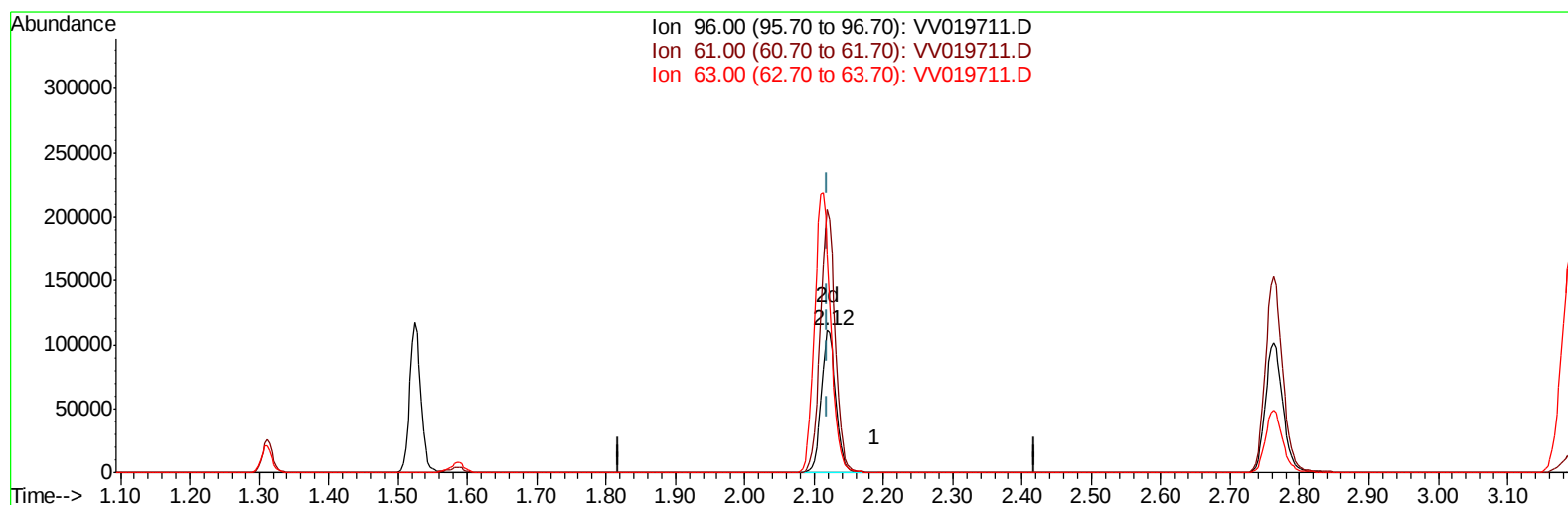
response 42

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 96.00 | 100    | 100    |
| 61.00 | 172.40 | 124.31 |
| 63.00 | 91.90  | 92.20  |
| 0.00  | 0.00   | 0.00   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121820\  
 Data File : VV019711.D  
 Acq On : 18 Dec 2020 19:52  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFB68

Quant Time: Dec 19 05:29:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 19 05:26:51 2020  
 Response via : Initial Calibration



TIC: VV019711.D

(12) 1,1-Dichloroethene (T)

2.119min (-0.000) 45.94ug/L m

response 162675

| Ion   | Exp%   | Act%    |
|-------|--------|---------|
| 96.00 | 100    | 100     |
| 61.00 | 172.40 | 184.90  |
| 63.00 | 91.90  | 152.96# |
| 0.00  | 0.00   | 0.00    |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121820\  
 Data File : VV019711.D  
 Acq On : 18 Dec 2020 19:52  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFB68

Quant Time: Dec 19 06:59:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 19 05:26:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.62  | 114  | 594331   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.86  | 117  | 562444   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.25 | 152  | 287861   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 182074   | 42.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 85.44%  |
| 7) Chloroethane-d5             | 1.57    | 69    | 151917   | 45.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 90.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.11    | 63    | 355306   | 44.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.84%  |
| 21) 2-Butanone-d5              | 3.89    | 46    | 291167   | 125.70   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 125.70% |
| 24) Chloroform-d               | 4.35    | 84    | 363784   | 47.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.72%  |
| 26) 1,2-Dichloroethane-d4      | 5.04    | 65    | 241178   | 48.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.10%  |
| 32) Benzene-d6                 | 5.05    | 84    | 682762   | 45.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.04%  |
| 36) 1,2-Dichloropropane-d6     | 6.07    | 67    | 222657   | 47.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 94.76%  |
| 41) Toluene-d8                 | 7.32    | 98    | 605883   | 44.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.72%  |
| 43) trans-1,3-Dichloropropene- | 7.62    | 79    | 112559   | 42.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 84.22%  |
| 47) 2-Hexanone-d5              | 8.09    | 63    | 208747   | 113.19   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 113.19% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.22   | 84    | 304184   | 47.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.72%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.63   | 152   | 235892   | 43.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.68%  |

## Target Compounds

|                                |      |     |         |         | Ovalue    |
|--------------------------------|------|-----|---------|---------|-----------|
| 2) Dichlorodifluoromethane     | 1.13 | 85  | 209968  | 43.777  | ug/L 99   |
| 3) Chloromethane               | 1.24 | 50  | 234046  | 45.907  | ug/L 98   |
| 5) Vinyl chloride              | 1.31 | 62  | 232143  | 45.396  | ug/L 99   |
| 6) Bromomethane                | 1.52 | 94  | 138642  | 45.145  | ug/L 99   |
| 8) Chloroethane                | 1.59 | 64  | 147446  | 47.802  | ug/L 98   |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 288976  | 46.252  | ug/L 100  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12 | 101 | 166741  | 48.325  | ug/L 99   |
| 12) 1,1-Dichloroethene         | 2.12 | 96  | 162675m | 45.945  | ug/L      |
| 13) Acetone                    | 2.19 | 43  | 199557  | 101.123 | ug/L 98   |
| 14) Carbon disulfide           | 2.30 | 76  | 478713  | 41.148  | ug/L 100  |
| 15) Methyl Acetate             | 2.44 | 43  | 215681  | 50.164  | ug/L 98   |
| 16) Methylene chloride         | 2.51 | 84  | 196592  | 47.357  | ug/L 98   |
| 17) trans-1,2-Dichloroethene   | 2.76 | 96  | 176760  | 45.547  | ug/L 99   |
| 18) Methyl tert-butyl Ether    | 2.77 | 73  | 626905  | 46.230  | ug/L 99   |
| 19) 1,1-Dichloroethane         | 3.19 | 63  | 358369  | 47.631  | ug/L 99   |
| 20) cis-1,2-Dichloroethene     | 3.91 | 96  | 198288  | 46.479  | ug/L # 97 |
| 22) 2-Butanone                 | 3.98 | 43  | 295923  | 102.229 | ug/L 100  |

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Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFB68

Quant Time: Dec 19 06:59:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 19 05:26:51 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.25  | 128  | 98656    | 47.000 | ug/L  | 98       |
| 25) Chloroform                  | 4.38  | 83   | 358907   | 47.764 | ug/L  | 97       |
| 27) 1,2-Dichloroethane          | 5.13  | 62   | 294341   | 47.282 | ug/L  | 100      |
| 29) Cyclohexane                 | 4.68  | 56   | 312188   | 45.288 | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane       | 4.61  | 97   | 310051   | 43.964 | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.83  | 117  | 251944   | 42.319 | ug/L  | 98       |
| 33) Benzene                     | 5.10  | 78   | 761939   | 46.353 | ug/L  | 100      |
| 34) Trichloroethene             | 5.92  | 95   | 196588   | 45.273 | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.14  | 83   | 309572   | 46.928 | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.18  | 63   | 205161   | 47.793 | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.51  | 83   | 268969   | 44.808 | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.03  | 75   | 323760   | 45.411 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.23  | 43   | 593299   | 95.799 | ug/L  | 98       |
| 42) Toluene                     | 7.39  | 91   | 791365   | 45.678 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.65  | 75   | 313803   | 43.468 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 7.84  | 97   | 190217   | 46.662 | ug/L  | 99       |
| 46) Tetrachloroethene           | 7.98  | 164  | 131692   | 43.830 | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.14  | 43   | 455773   | 96.988 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.25  | 129  | 196498   | 44.015 | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.35  | 107  | 198927   | 46.340 | ug/L  | 99       |
| 51) Chlorobenzene               | 8.88  | 112  | 509053   | 46.005 | ug/L  | 100      |
| 52) Ethylbenzene                | 9.02  | 91   | 896149   | 45.400 | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.14  | 106  | 325735   | 44.171 | ug/L  | 99       |
| 54) o-xylene                    | 9.55  | 106  | 325756   | 45.068 | ug/L  | 100      |
| 55) Styrene                     | 9.56  | 104  | 574733   | 45.622 | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.94  | 105  | 872657   | 45.318 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.24 | 83   | 306498   | 46.754 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.28 | 75   | 255405   | 47.833 | ug/L  | 99       |
| 61) Bromoform                   | 9.74  | 173  | 125972   | 39.550 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.19 | 146  | 382953   | 43.360 | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.28 | 146  | 392339   | 43.870 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.65 | 146  | 388103   | 44.471 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.43 | 75   | 72728    | 39.923 | ug/L  | 91       |
| 67) 1,3,5-Trichlorobenzene      | 12.65 | 180  | 278053   | 44.560 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.27 | 180  | 256859   | 44.025 | ug/L  | 99       |
| 69) Naphthalene                 | 13.51 | 128  | 845186   | 41.720 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.75 | 180  | 252238   | 44.240 | ug/L  | 99       |

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

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Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
BFB68

Quant Time: Dec 19 06:59:03 2020  
Quant Method : Z:\V\OASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
Quant Title : VOC Analysis  
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