

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121719\  
 Data File : VX014081.D  
 Acq On : 18 Dec 2019 04:33  
 Operator : JC/SP  
 Sample : K6312-07 5X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EFF-WW

Integration Parameters: RTEINT3.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\624X121219W.M  
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.607       | 110           | 118         | 122          | rVB10    | 36718          | 92037         | 3.97%           | 0.743%        |
| 2         | 2.430       | 246           | 253         | 265          | rBV      | 1451543        | 2315711       | 100.00%         | 18.685%       |
| 3         | 2.594       | 273           | 280         | 297          | rBV      | 1216100        | 2154171       | 93.02%          | 17.382%       |
| 4         | 3.844       | 475           | 485         | 494          | rBV      | 21907          | 58039         | 2.51%           | 0.468%        |
| 5         | 5.008       | 666           | 676         | 688          | rBV      | 185894         | 545749        | 23.57%          | 4.404%        |
| 6         | 5.204       | 699           | 708         | 715          | rBV2     | 14235          | 35105         | 1.52%           | 0.283%        |
| 7         | 6.057       | 839           | 848         | 859          | rBV      | 191729         | 506972        | 21.89%          | 4.091%        |
| 8         | 6.850       | 969           | 978         | 992          | rBV      | 447327         | 1034383       | 44.67%          | 8.346%        |
| 9         | 8.709       | 1276          | 1283        | 1293         | rBV      | 941539         | 1454519       | 62.81%          | 11.736%       |
| 10        | 10.105      | 1507          | 1512        | 1519         | rBV      | 888690         | 1219905       | 52.68%          | 9.843%        |
| 11        | 11.135      | 1675          | 1681        | 1688         | rBV      | 744288         | 958670        | 41.40%          | 7.735%        |
| 12        | 12.269      | 1861          | 1867        | 1873         | rBV      | 44426          | 70279         | 3.03%           | 0.567%        |
| 13        | 12.745      | 1941          | 1945        | 1950         | rBV      | 70852          | 85213         | 3.68%           | 0.688%        |
| 14        | 12.922      | 1970          | 1974        | 1977         | rBV      | 33234          | 40594         | 1.75%           | 0.328%        |
| 15        | 13.318      | 2035          | 2039        | 2043         | rVB      | 60867          | 72944         | 3.15%           | 0.589%        |
| 16        | 13.751      | 2104          | 2110        | 2113         | rBV4     | 41012          | 72082         | 3.11%           | 0.582%        |
| 17        | 13.787      | 2114          | 2116        | 2118         | rVV2     | 24753          | 23931         | 1.03%           | 0.193%        |
| 18        | 13.818      | 2118          | 2121        | 2124         | rVB3     | 26278          | 26470         | 1.14%           | 0.214%        |
| 19        | 13.879      | 2128          | 2131        | 2139         | rVV2     | 38259          | 59527         | 2.57%           | 0.480%        |
| 20        | 14.086      | 2161          | 2165        | 2171         | rVV      | 680470         | 757240        | 32.70%          | 6.110%        |
| 21        | 14.171      | 2175          | 2179        | 2184         | rVB8     | 13362          | 23673         | 1.02%           | 0.191%        |
| 22        | 14.318      | 2199          | 2203        | 2207         | rBV2     | 18275          | 23665         | 1.02%           | 0.191%        |
| 23        | 14.482      | 2227          | 2230        | 2236         | rVB7     | 18113          | 23459         | 1.01%           | 0.189%        |
| 24        | 14.616      | 2248          | 2252        | 2261         | rVB7     | 11853          | 24734         | 1.07%           | 0.200%        |
| 25        | 14.805      | 2279          | 2283        | 2288         | rVB      | 673455         | 714157        | 30.84%          | 5.762%        |

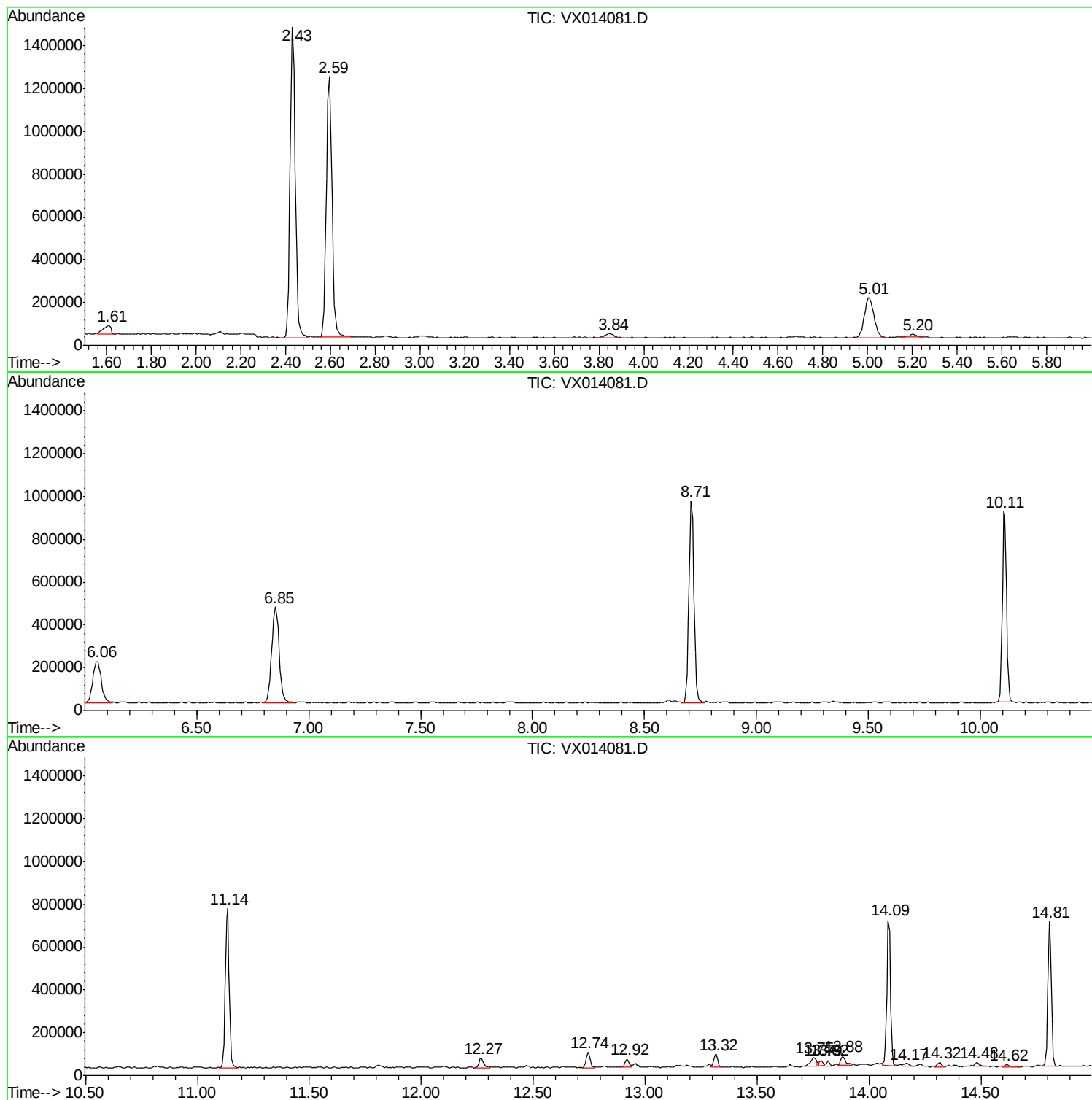
Sum of corrected areas: 12393229

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121719\  
Data File : VX014081.D  
Acq On : 18 Dec 2019 04:33  
Operator : JC/SP  
Sample : K6312-07 5X  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF-WW

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX121719\  
 Data File : VX014081.D  
 Acq On : 18 Dec 2019 04:33  
 Operator : JC/SP  
 Sample : K6312-07 5X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EFF-WW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\624X121219W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 1 unknown1.61 Concentration Rank 4

| R.T. | EstConc   | Area  | Relative to ISTD   | R.T. |
|------|-----------|-------|--------------------|------|
| 1.61 | 5.06 ug/l | 92037 | Bromochloromethane | 5.01 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|---------|---|-------------------------------------|-----|-------------|--------------|------|
| 1       |   | Phosgene                            | 98  | CCl2O       | 000075-44-5  | 38   |
| 2       |   | 2-Chloroethyl chlorobromoethyl s... | 252 | C4H7BrCl2OS | 1000226-90-1 | 35   |
| 3       |   | Ethane, 1,2-bis(2-chloroethoxy)-    | 186 | C6H12Cl2O2  | 000112-26-5  | 25   |
| 4       |   | 3,3,5-Trichloro-2,4-dithiahexane... | 288 | C4H7Cl3O4S2 | 068483-82-9  | 25   |
| 5       |   | Bis(trifluoromethylthio)methylar... | 292 | C3H3AsF6S2  | 153650-83-0  | 25   |

\*\*\*\*\*  
 Peak Number 2 Isopropyl Alcohol Concentration Rank 1

| R.T. | EstConc     | Area    | Relative to ISTD   | R.T. |
|------|-------------|---------|--------------------|------|
| 2.59 | 118.42 ug/l | 2154170 | Bromochloromethane | 5.01 |

| Hit# of | 5 | Tentative ID      | MW | MolForm | CAS#        | Qual |
|---------|---|-------------------|----|---------|-------------|------|
| 1       |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 78   |
| 2       |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 78   |
| 3       |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 64   |
| 4       |   | 4-Penten-2-ol     | 86 | C5H10O  | 000625-31-0 | 4    |
| 5       |   | Formamide         | 45 | CH3NO   | 000075-12-7 | 4    |

\*\*\*\*\*  
 Peak Number 3 Tridecane Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 14.09 | 18.62 ug/l | 757240 | Chlorobenzene-d5 | 10.11 |

| Hit# of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------|-----|---------|-------------|------|
| 1       |   | Tridecane    | 184 | C13H28  | 000629-50-5 | 94   |
| 2       |   | Tridecane    | 184 | C13H28  | 000629-50-5 | 93   |
| 3       |   | Tridecane    | 184 | C13H28  | 000629-50-5 | 91   |
| 4       |   | Dodecane     | 170 | C12H26  | 000112-40-3 | 90   |
| 5       |   | Hexadecane   | 226 | C16H34  | 000544-76-3 | 86   |

\*\*\*\*\*  
 Peak Number 4 Tetradecane Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|---------|------|------------------|------|
|------|---------|------|------------------|------|

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX121719\  
Data File : VX014081.D  
Acq On : 18 Dec 2019 04:33  
Operator : JC/SP  
Sample : K6312-07 5X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF-WW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\624X121219W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

|       |            |              |                  |         |             |      |
|-------|------------|--------------|------------------|---------|-------------|------|
| ----- |            |              |                  |         |             |      |
| 14.81 | 17.56 ug/l | 714157       | Chlorobenzene-d5 | 10.11   |             |      |
| Hit#  | of 5       | Tentative ID | MW               | MolForm | CAS#        | Qual |
| ----- |            |              |                  |         |             |      |
| 1     |            | Tetradecane  | 198              | C14H30  | 000629-59-4 | 96   |
| 2     |            | Tetradecane  | 198              | C14H30  | 000629-59-4 | 95   |
| 3     |            | Hexadecane   | 226              | C16H34  | 000544-76-3 | 91   |
| 4     |            | Tetradecane  | 198              | C14H30  | 000629-59-4 | 90   |
| 5     |            | Hexadecane   | 226              | C16H34  | 000544-76-3 | 87   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX121719\  
Data File : VX014081.D  
Acq On : 18 Dec 2019 04:33  
Operator : JC/SP  
Sample : K6312-07 5X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
EFF-WW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\624X121219W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name  | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|-------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                   |       |         |       |          | #                     | RT    | Resp    | Conc |
| unknown1.61       | 1.61  | 5.1     | ug/l  | 92037    | 1                     | 5.01  | 545749  | 30.0 |
| Isopropyl Alcohol | 2.59  | 118.4   | ug/l  | 2154170  | 1                     | 5.01  | 545749  | 30.0 |
| Tridecane         | 14.09 | 18.6    | ug/l  | 757240   | 3                     | 10.11 | 1219910 | 30.0 |
| Tetradecane       | 14.81 | 17.6    | ug/l  | 714157   | 3                     | 10.11 | 1219910 | 30.0 |