LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080819\
Data File : VU033647.D
Acq On : 08 Aug 2019 18:56
Operator : JC/SP
Sample : K4161-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** ETOD7

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080819WMA.M
Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.177 | 23 | 27 | 32 | rBV2 | 3313 | 2795 | 0.20% | 0.027% |
| 2 | 1.389 | 86 | 93 | 110 | rBV | 214322 | 232494 | 17.03% | 2.260% |
| 3 | 1.672 | 173 | 181 | 199 | rVB | 176730 | 222580 | 16.30% | 2.164% |
| 4 | 2.257 | 353 | 363 | 376 | rVV | 326830 | 498105 | 36.48% | 4.842% |
| 5 | 2.315 | 376 | 381 | 391 | rVB4 | 6867 | 10867 | 0.80% | 0.106% |
| 6 | 2.450 | 412 | 423 | 442 | rBV | 21476 | 52500 | 3.85% | 0.510% |
| 7 | 2.669 | 489 | 491 | 493 | rBV | 318 | 208 | 0.02% | 0.002% |
| 8 | 2.714 | 502 | 505 | 509 | rVB2 | 510 | 338 | 0.02% | 0.003% |
| 9 | 2.736 | 509 | 512 | 516 | rBV2 | 243 | 215 | 0.02% | 0.002% |
| 10 | 2.820 | 526 | 538 | 550 | rBV4 | 2416 | 5656 | 0.41% | 0.055% |
| 11 | 2.916 | 565 | 568 | 573 | rVB2 | 256 | 200 | 0.01% | 0.002% |
| 12 | 2.971 | 582 | 585 | 589 | rBV | 260 | 182 | 0.01% | 0.002% |
| 13 | 3.003 | 592 | 595 | 598 | rBV2 | 265 | 189 | 0.01% | 0.002% |
| 14 | 3.087 | 617 | 621 | 625 | rBV2 | 317 | 324 | 0.02% | 0.003% |
| 15 | 3.177 | 645 | 649 | 654 | rBV2 | 348 | 306 | 0.02% | 0.003% |
| 16 | 3.338 | 698 | 699 | 704 | rVB2 | 334 | 210 | 0.02% | 0.002% |
| 17 | 3.367 | 704 | 708 | 712 | rVB3 | 379 | 380 | 0.03% | 0.004% |
| 18 | 3.431 | 722 | 728 | 730 | rBV2 | 324 | 359 | 0.03% | 0.003% |
| 19 | 3.495 | 741 | 748 | 751 | rBV2 | 143 | 200 | 0.01% | 0.002% |
| 20 | 3.588 | 774 | 777 | 783 | rVB2 | 231 | 246 | 0.02% | 0.002% |
| 21 | 3.672 | 797 | 803 | 806 | rBV | 495 | 509 | 0.04% | 0.005% |
| 22 | 3.865 | 861 | 863 | 869 | rVB | 318 | 272 | 0.02% | 0.003% |
| 23 | 3.894 | 869 | 872 | 873 | rBV | 268 | 180 | 0.01% | 0.002% |
| 24 | 4.154 | 940 | 953 | 987 | rBV | 130138 | 361299 | 26.46% | 3.512% |
| 25 | 4.624 | 1080 | 1099 | 1126 | rBV | 228283 | 542334 | 39.72% | 5.272% |
| 26 | 4.862 | 1168 | 1173 | 1177 | rBV4 | 877 | 991 | 0.07% | 0.010% |
| 27 | 4.932 | 1191 | 1195 | 1198 | rBV3 | 614 | 435 | 0.03% | 0.004% |
| 28 | 5.003 | 1215 | 1217 | 1222 | rVV2 | 278 | 219 | 0.02% | 0.002% |
| 29 | 5.318 | 1289 | 1315 | 1353 | rBV2 | 465069 | 1365407 | 100.00% | 13.273% |
| 30 | 5.482 | 1364 | 1366 | 1368 | rVB2 | 447 | 193 | 0.01% | 0.002% |
| 31 | 5.637 | 1411 | 1414 | 1415 | rBV | 317 | 220 | 0.02% | 0.002% |
| 32 | 5.669 | 1420 | 1424 | 1426 | rBV3 | 307 | 262 | 0.02% | 0.003% |
| 33 | 5.733 | 1441 | 1444 | 1447 | rBV2 | 278 | 207 | 0.02% | 0.002% |
| 34 | 5.781 | 1455 | 1459 | 1461 | rBV3 | 372 | 281 | 0.02% | 0.003% |

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Acq On : 08 Aug 2019 18:56
Operator : JC/SP
Sample : K4161-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** ETOD7

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080819WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 5.865 | 1470 | 1485 | 1511 | rBV | 335779 | 665741 | 48.76% | 6.472% |
| 36 | 6.061 | 1544 | 1546 | 1549 | rBV3 | 334 | 215 | 0.02% | 0.002% |
| 37 | 6.170 | 1566 | 1580 | 1590 | rBV6 | 2434 | 5304 | 0.39% | 0.052% |
| 38 | 6.238 | 1600 | 1601 | 1606 | rVB3 | 324 | 236 | 0.02% | 0.002% |
| 39 | 6.309 | 1606 | 1623 | 1646 | rBV | 306452 | 616299 | 45.14% | 5.991% |
| 40 | 6.418 | 1655 | 1657 | 1660 | rBV | 426 | 253 | 0.02% | 0.002% |
| 41 | 6.495 | 1677 | 1681 | 1684 | rBV2 | 420 | 297 | 0.02% | 0.003% |
| 42 | 6.579 | 1704 | 1707 | 1712 | rVB2 | 369 | 292 | 0.02% | 0.003% |
| 43 | 6.701 | 1741 | 1745 | 1749 | rBV2 | 197 | 218 | 0.02% | 0.002% |
| 44 | 6.733 | 1752 | 1755 | 1761 | rVB2 | 235 | 265 | 0.02% | 0.003% |
| 45 | 6.804 | 1770 | 1777 | 1779 | rBV2 | 537 | 468 | 0.03% | 0.005% |
| 46 | 6.868 | 1792 | 1797 | 1803 | rVB2 | 257 | 307 | 0.02% | 0.003% |
| 47 | 6.974 | 1825 | 1830 | 1832 | rBV | 207 | 209 | 0.02% | 0.002% |
| 48 | 7.016 | 1837 | 1843 | 1844 | rBV | 227 | 215 | 0.02% | 0.002% |
| 49 | 7.209 | 1891 | 1903 | 1921 | rBV2 | 165833 | 301180 | 22.06% | 2.928% |
| 50 | 7.373 | 1949 | 1954 | 1956 | rBV4 | 1024 | 1003 | 0.07% | 0.010% |
| 51 | 7.546 | 1994 | 2008 | 2028 | rBV | 625890 | 1075662 | 78.78% | 10.456% |
| 52 | 7.833 | 2086 | 2097 | 2118 | rBV | 118737 | 210285 | 15.40% | 2.044% |
| 53 | 7.993 | 2145 | 2147 | 2152 | rVB2 | 313 | 232 | 0.02% | 0.002% |
| 54 | 8.083 | 2171 | 2175 | 2179 | rBV2 | 298 | 226 | 0.02% | 0.002% |
| 55 | 8.157 | 2189 | 2198 | 2200 | rBV2 | 1643 | 1945 | 0.14% | 0.019% |
| 56 | 8.212 | 2208 | 2215 | 2223 | rVB4 | 1905 | 2917 | 0.21% | 0.028% |
| 57 | 8.296 | 2228 | 2241 | 2271 | rBV | 418816 | 763549 | 55.92% | 7.422% |
| 58 | 8.697 | 2362 | 2366 | 2367 | rBV2 | 248 | 189 | 0.01% | 0.002% |
| 59 | 8.710 | 2367 | 2370 | 2373 | rVV2 | 399 | 321 | 0.02% | 0.003% |
| 60 | 8.939 | 2438 | 2441 | 2443 | rBV | 301 | 198 | 0.01% | 0.002% |
| 61 | 8.971 | 2448 | 2451 | 2455 | rBV2 | 210 | 178 | 0.01% | 0.002% |
| 62 | 9.025 | 2464 | 2468 | 2470 | rBV2 | 251 | 179 | 0.01% | 0.002% |
| 63 | 9.070 | 2470 | 2482 | 2524 | rBV | 501921 | 853129 | 62.48% | 8.293% |
| 64 | 9.276 | 2541 | 2546 | 2547 | rBV | 272 | 185 | 0.01% | 0.002% |
| 65 | 9.292 | 2548 | 2551 | 2555 | rVB2 | 357 | 247 | 0.02% | 0.002% |
| 66 | 9.360 | 2565 | 2572 | 2574 | rBV2 | 447 | 439 | 0.03% | 0.004% |
| 67 | 9.395 | 2579 | 2583 | 2587 | rVB2 | 441 | 457 | 0.03% | 0.004% |
| 68 | 9.443 | 2596 | 2598 | 2604 | rBV | 292 | 279 | 0.02% | 0.003% |
| 69 | 9.485 | 2607 | 2611 | 2615 | rBV2 | 226 | 215 | 0.02% | 0.002% |
| 70 | 9.598 | 2640 | 2646 | 2649 | rVB2 | 250 | 268 | 0.02% | 0.003% |
| 71 | 9.855 | 2723 | 2726 | 2729 | rVV2 | 290 | 228 | 0.02% | 0.002% |

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Acq On : 08 Aug 2019 18:56
Operator : JC/SP
Sample : K4161-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** ETOD7

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080819WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 9.874 | 2729 | 2732 | 2735 | rVV2 | 400 | 226 | 0.02% | 0.002% |
| 73 | 9.926 | 2745 | 2748 | 2752 | rVV2 | 215 | 198 | 0.01% | 0.002% |
| 74 | 9.961 | 2754 | 2759 | 2765 | rVB2 | 342 | 448 | 0.03% | 0.004% |
| 75 | 9.996 | 2765 | 2770 | 2772 | rBV2 | 246 | 190 | 0.01% | 0.002% |
| 76 | 10.093 | 2795 | 2800 | 2804 | rBV2 | 250 | 242 | 0.02% | 0.002% |
| 77 | 10.154 | 2817 | 2819 | 2823 | rVB3 | 350 | 175 | 0.01% | 0.002% |
| 78 | 10.289 | 2858 | 2861 | 2866 | rBV2 | 257 | 307 | 0.02% | 0.003% |
| 79 | 10.344 | 2875 | 2878 | 2881 | rVB | 284 | 178 | 0.01% | 0.002% |
| 80 | 10.414 | 2887 | 2900 | 2925 | rVV | 448873 | 721714 | 52.86% | 7.016% |
| 81 | 10.595 | 2950 | 2956 | 2960 | rBV2 | 1034 | 1280 | 0.09% | 0.012% |
| 82 | 10.768 | 3005 | 3010 | 3016 | rVB5 | 573 | 677 | 0.05% | 0.007% |
| 83 | 11.000 | 3080 | 3082 | 3090 | rBV | 361 | 345 | 0.03% | 0.003% |
| 84 | 11.054 | 3094 | 3099 | 3101 | rBV2 | 207 | 198 | 0.01% | 0.002% |
| 85 | 11.067 | 3101 | 3103 | 3106 | rBV | 314 | 210 | 0.02% | 0.002% |
| 86 | 11.247 | 3155 | 3159 | 3162 | rBV2 | 427 | 444 | 0.03% | 0.004% |
| 87 | 11.331 | 3182 | 3185 | 3189 | rVB2 | 324 | 234 | 0.02% | 0.002% |
| 88 | 11.405 | 3200 | 3208 | 3215 | rBV6 | 786 | 1490 | 0.11% | 0.014% |
| 89 | 11.466 | 3215 | 3227 | 3252 | rBV | 484125 | 777883 | 56.97% | 7.562% |
| 90 | 11.636 | 3277 | 3280 | 3284 | rBV3 | 579 | 522 | 0.04% | 0.005% |
| 91 | 11.717 | 3303 | 3305 | 3308 | rVB4 | 343 | 189 | 0.01% | 0.002% |
| 92 | 11.794 | 3326 | 3329 | 3331 | rBV2 | 529 | 304 | 0.02% | 0.003% |
| 93 | 11.842 | 3332 | 3344 | 3369 | rBV | 596618 | 972800 | 71.25% | 9.456% |
| 94 | 12.154 | 3439 | 3441 | 3444 | rBV2 | 330 | 196 | 0.01% | 0.002% |
| 95 | 12.331 | 3494 | 3496 | 3500 | rVB3 | 335 | 229 | 0.02% | 0.002% |
| 96 | 12.357 | 3500 | 3504 | 3506 | rBV | 566 | 483 | 0.04% | 0.005% |
| 97 | 12.697 | 3608 | 3610 | 3616 | rBV3 | 288 | 284 | 0.02% | 0.003% |
| 98 | 12.865 | 3659 | 3662 | 3665 | rBV2 | 331 | 310 | 0.02% | 0.003% |
| 99 | 13.524 | 3863 | 3867 | 3869 | rBV | 385 | 317 | 0.02% | 0.003% |
| 100 | 14.276 | 4099 | 4101 | 4104 | rVB2 | 531 | 206 | 0.02% | 0.002% |

Sum of corrected areas: 10287272

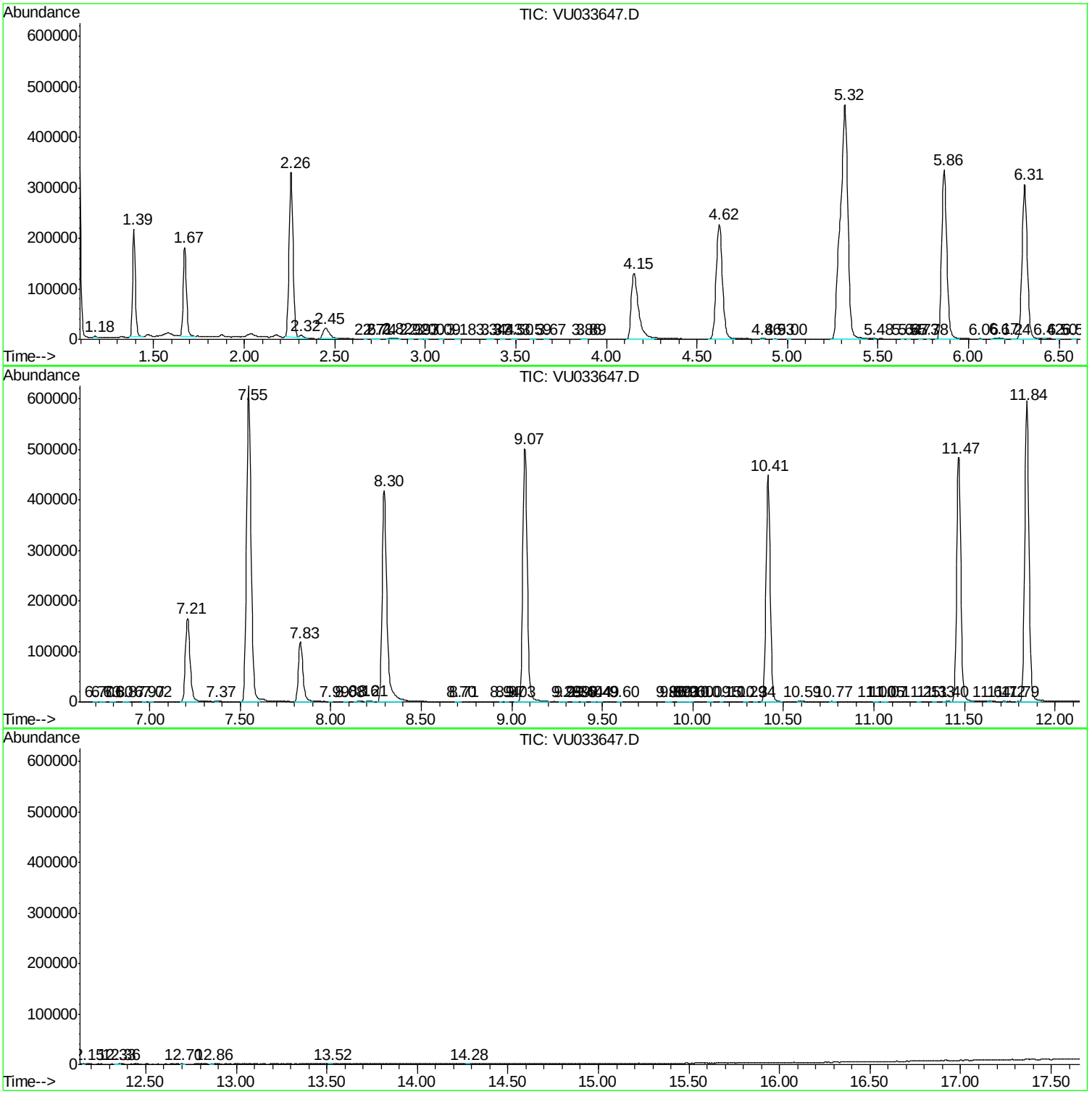
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080819\
Data File : VU033647.D
Acq On : 08 Aug 2019 18:56
Operator : JC/SP
Sample : K4161-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
ETOD7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080819WMA.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080819\
Data File : VU033647.D
Acq On : 08 Aug 2019 18:56
Operator : JC/SP
Sample : K4161-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** ETOD7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080819WMA.M
Quant Title : VOC Analysis

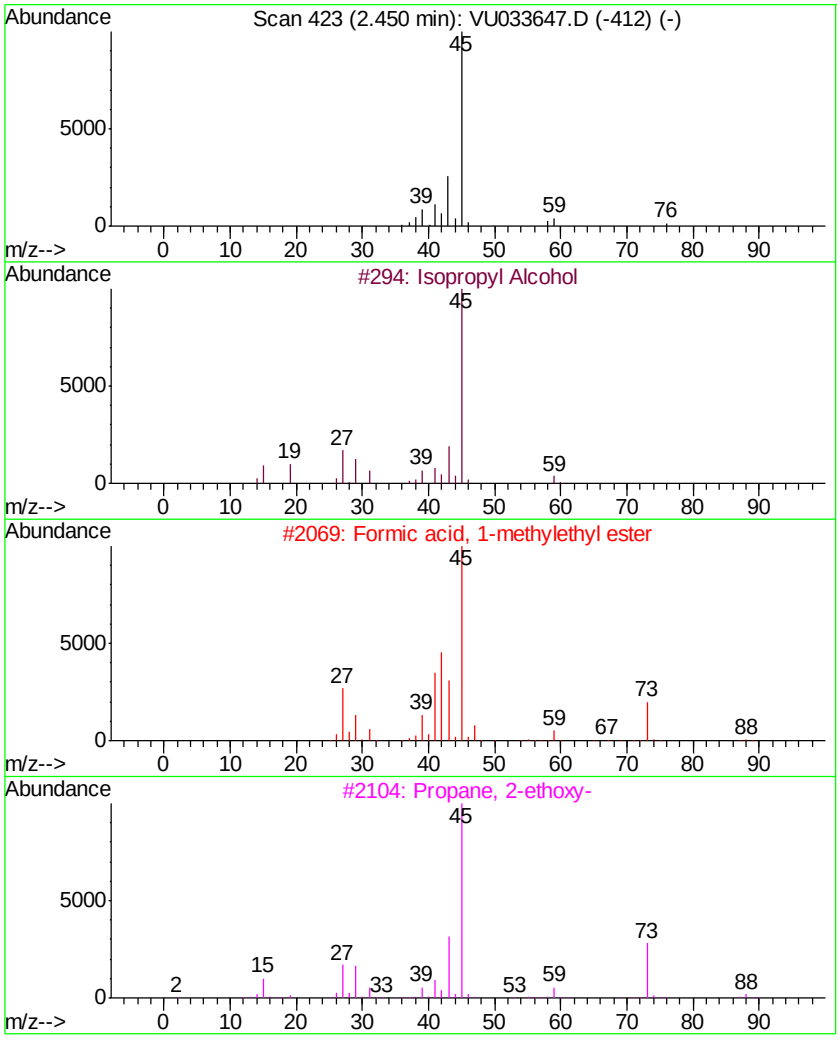
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

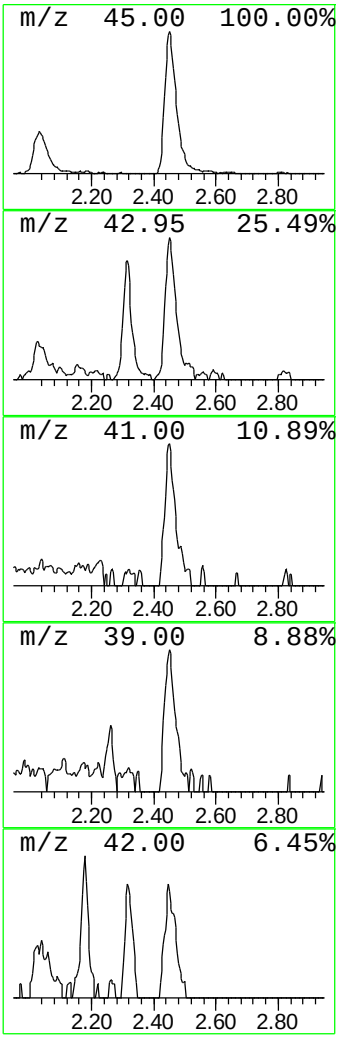
**********

Peak Number 1 Isopropyl Alcohol Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.45 | 3.94 ug/L | 52500 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 56 |
| 2 | Formic acid, 1-methylethyl ester | 88 | C4H8O2 | 000625-55-8 | 40 |
| 3 | Propane, 2-ethoxy- | 88 | C5H12O | 000625-54-7 | 40 |
| 4 | Propane, 2-ethoxy- | 88 | C5H12O | 000625-54-7 | 40 |
| 5 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 9 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080819\
Data File : VU033647.D
Acq On : 08 Aug 2019 18:56
Operator : JC/SP
Sample : K4161-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** ETOD7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080819WMA.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Isopropyl Alcohol | 2.45 | 3.9 | ug/L | 52500 | 1 | 5.86 | 665741 | 50.0 |