LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010719\
Data File : VU029076.D
Acq On : 07 Jan 2019 23:05
Operator : MD/SY
Sample : K1051-12
Misc : 6.32g/10mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BE9Y0

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\SOMULM122018WMA.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 | 1.395 | 62 | 69 | 85 | rVB | 82921 | 99670 | 14.56% | 1.643% |
| 2 | 1.640 | 141 | 145 | 154 | rVB | 56405 | 57125 | 8.34% | 0.942% |
| 3 | 2.222 | 316 | 326 | 340 | rVB | 144305 | 221910 | 32.41% | 3.658% |
| 4 | 2.324 | 356 | 358 | 360 | rBV2 | 310 | 174 | 0.03% | 0.003% |
| 5 | 2.344 | 360 | 364 | 372 | rVV6 | 653 | 976 | 0.14% | 0.016% |
| 6 | 2.431 | 387 | 391 | 392 | rBV | 355 | 157 | 0.02% | 0.003% |
| 7 | 2.550 | 420 | 428 | 430 | rBV2 | 785 | 837 | 0.12% | 0.014% |
| 8 | 2.759 | 489 | 493 | 496 | rBV | 202 | 124 | 0.02% | 0.002% |
| 9 | 2.826 | 502 | 514 | 529 | rVV2 | 3032 | 6703 | 0.98% | 0.110% |
| 10 | 3.013 | 568 | 572 | 574 | rBV | 169 | 97 | 0.01% | 0.002% |
| 11 | 3.083 | 591 | 594 | 596 | rBV | 166 | 92 | 0.01% | 0.002% |
| 12 | 3.160 | 615 | 618 | 619 | rBV | 161 | 114 | 0.02% | 0.002% |
| 13 | 3.251 | 642 | 646 | 649 | rBV | 253 | 131 | 0.02% | 0.002% |
| 14 | 3.279 | 652 | 655 | 657 | rVV2 | 173 | 102 | 0.01% | 0.002% |
| 15 | 3.296 | 657 | 660 | 664 | rVV2 | 208 | 165 | 0.02% | 0.003% |
| 16 | 3.318 | 664 | 667 | 672 | rVB | 261 | 183 | 0.03% | 0.003% |
| 17 | 3.347 | 672 | 676 | 682 | rBV | 217 | 285 | 0.04% | 0.005% |
| 18 | 3.485 | 716 | 719 | 722 | rVB2 | 197 | 143 | 0.02% | 0.002% |
| 19 | 3.900 | 845 | 848 | 851 | rVB2 | 215 | 150 | 0.02% | 0.002% |
| 20 | 3.922 | 851 | 855 | 858 | rBV | 139 | 120 | 0.02% | 0.002% |
| 21 | 4.003 | 877 | 880 | 881 | rBV | 160 | 93 | 0.01% | 0.002% |
| 22 | 4.032 | 885 | 889 | 894 | rBV2 | 183 | 141 | 0.02% | 0.002% |
| 23 | 4.112 | 909 | 914 | 916 | rBV | 217 | 173 | 0.03% | 0.003% |
| 24 | 4.199 | 927 | 941 | 982 | rBV2 | 49071 | 163389 | 23.86% | 2.693% |
| 25 | 4.514 | 1036 | 1039 | 1042 | rVB | 178 | 101 | 0.01% | 0.002% |
| 26 | 4.566 | 1053 | 1055 | 1060 | rVV2 | 191 | 186 | 0.03% | 0.003% |
| 27 | 4.640 | 1060 | 1078 | 1111 | rVV | 109295 | 261812 | 38.24% | 4.315% |
| 28 | 4.752 | 1111 | 1113 | 1117 | rVB2 | 172 | 121 | 0.02% | 0.002% |
| 29 | 4.890 | 1153 | 1156 | 1158 | rBV | 252 | 116 | 0.02% | 0.002% |
| 30 | 4.942 | 1169 | 1172 | 1176 | rBV | 224 | 110 | 0.02% | 0.002% |
| 31 | 4.993 | 1182 | 1188 | 1194 | rVB2 | 211 | 233 | 0.03% | 0.004% |
| 32 | 5.029 | 1195 | 1199 | 1202 | rBV2 | 190 | 151 | 0.02% | 0.002% |
| 33 | 5.215 | 1255 | 1257 | 1263 | rVB2 | 161 | 111 | 0.02% | 0.002% |
| 34 | 5.324 | 1270 | 1291 | 1315 | rBV2 | 250059 | 684711 | 100.00% | 11.285% |

LSC Area Percent Report

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Sample : K1051-12
Misc : 6.32g/10mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BE9Y0

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\SOMULM122018WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 5.537 | 1354 | 1357 | 1359 | rBV | 250 | 125 | 0.02% | 0.002% |
| 36 | 5.572 | 1365 | 1368 | 1371 | rBV | 196 | 117 | 0.02% | 0.002% |
| 37 | 5.614 | 1376 | 1381 | 1383 | rBV2 | 543 | 366 | 0.05% | 0.006% |
| 38 | 5.652 | 1392 | 1393 | 1397 | rVB2 | 230 | 102 | 0.01% | 0.002% |
| 39 | 5.736 | 1417 | 1419 | 1424 | rVB2 | 244 | 192 | 0.03% | 0.003% |
| 40 | 5.791 | 1434 | 1436 | 1443 | rBV | 171 | 113 | 0.02% | 0.002% |
| 41 | 5.877 | 1450 | 1463 | 1490 | rBV | 255143 | 525852 | 76.80% | 8.667% |
| 42 | 6.176 | 1543 | 1556 | 1574 | rBV | 178660 | 352109 | 51.42% | 5.803% |
| 43 | 6.328 | 1588 | 1603 | 1629 | rVB | 150902 | 318501 | 46.52% | 5.250% |
| 44 | 6.450 | 1639 | 1641 | 1647 | rVB2 | 304 | 179 | 0.03% | 0.003% |
| 45 | 6.482 | 1648 | 1651 | 1655 | rBV2 | 156 | 131 | 0.02% | 0.002% |
| 46 | 6.710 | 1719 | 1722 | 1725 | rVV2 | 163 | 105 | 0.02% | 0.002% |
| 47 | 6.893 | 1773 | 1779 | 1781 | rBV2 | 733 | 648 | 0.09% | 0.011% |
| 48 | 7.051 | 1824 | 1828 | 1835 | rBV2 | 239 | 350 | 0.05% | 0.006% |
| 49 | 7.083 | 1835 | 1838 | 1842 | rVB2 | 201 | 153 | 0.02% | 0.003% |
| 50 | 7.106 | 1842 | 1845 | 1848 | rBV | 172 | 131 | 0.02% | 0.002% |
| 51 | 7.225 | 1870 | 1882 | 1908 | rBV | 80633 | 155196 | 22.67% | 2.558% |
| 52 | 7.488 | 1957 | 1964 | 1971 | rBV3 | 517 | 725 | 0.11% | 0.012% |
| 53 | 7.562 | 1974 | 1987 | 2005 | rBV | 299478 | 545483 | 79.67% | 8.991% |
| 54 | 7.803 | 2056 | 2062 | 2066 | rBV3 | 389 | 583 | 0.09% | 0.010% |
| 55 | 7.848 | 2066 | 2076 | 2099 | rVB | 52577 | 103213 | 15.07% | 1.701% |
| 56 | 8.028 | 2128 | 2132 | 2134 | rBV2 | 153 | 97 | 0.01% | 0.002% |
| 57 | 8.131 | 2161 | 2164 | 2167 | rBV | 126 | 92 | 0.01% | 0.002% |
| 58 | 8.209 | 2184 | 2188 | 2193 | rVB | 124 | 122 | 0.02% | 0.002% |
| 59 | 8.327 | 2212 | 2225 | 2251 | rBV | 188785 | 379892 | 55.48% | 6.261% |
| 60 | 8.633 | 2315 | 2320 | 2326 | rBV3 | 631 | 812 | 0.12% | 0.013% |
| 61 | 8.672 | 2328 | 2332 | 2335 | rVV2 | 215 | 157 | 0.02% | 0.003% |
| 62 | 8.852 | 2383 | 2388 | 2392 | rVV2 | 334 | 387 | 0.06% | 0.006% |
| 63 | 9.089 | 2450 | 2462 | 2500 | rBV | 359079 | 665106 | 97.14% | 10.962% |
| 64 | 9.237 | 2505 | 2508 | 2510 | rVB | 211 | 129 | 0.02% | 0.002% |
| 65 | 9.347 | 2540 | 2542 | 2548 | rVB | 180 | 101 | 0.01% | 0.002% |
| 66 | 9.379 | 2548 | 2552 | 2554 | rBV2 | 222 | 169 | 0.02% | 0.003% |
| 67 | 9.430 | 2566 | 2568 | 2576 | rVB | 319 | 225 | 0.03% | 0.004% |
| 68 | 9.472 | 2579 | 2581 | 2583 | rVV | 198 | 103 | 0.02% | 0.002% |
| 69 | 9.546 | 2600 | 2604 | 2608 | rBV | 395 | 457 | 0.07% | 0.008% |
| 70 | 9.855 | 2697 | 2700 | 2701 | rBV | 190 | 104 | 0.02% | 0.002% |
| 71 | 9.932 | 2721 | 2724 | 2726 | rVV2 | 146 | 91 | 0.01% | 0.001% |

LSC Area Percent Report

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Data File : VU029076.D
Acq On : 07 Jan 2019 23:05
Operator : MD/SY
Sample : K1051-12
Misc : 6.32g/10mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BE9Y0

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\SOMULM122018WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 9.980 | 2736 | 2739 | 2744 | rVB2 | 224 | 216 | 0.03% | 0.004% |
| 73 | 10.009 | 2744 | 2748 | 2751 | rBV | 227 | 133 | 0.02% | 0.002% |
| 74 | 10.041 | 2756 | 2758 | 2761 | rVB2 | 236 | 127 | 0.02% | 0.002% |
| 75 | 10.131 | 2783 | 2786 | 2788 | rBV2 | 183 | 116 | 0.02% | 0.002% |
| 76 | 10.147 | 2789 | 2791 | 2795 | rVB2 | 188 | 131 | 0.02% | 0.002% |
| 77 | 10.167 | 2795 | 2797 | 2800 | rBV | 170 | 123 | 0.02% | 0.002% |
| 78 | 10.205 | 2807 | 2809 | 2813 | rVB | 222 | 106 | 0.02% | 0.002% |
| 79 | 10.228 | 2813 | 2816 | 2818 | rBV2 | 191 | 113 | 0.02% | 0.002% |
| 80 | 10.292 | 2831 | 2836 | 2839 | rBV | 178 | 181 | 0.03% | 0.003% |
| 81 | 10.437 | 2868 | 2881 | 2905 | rVB | 246516 | 396519 | 57.91% | 6.535% |
| 82 | 10.520 | 2905 | 2907 | 2910 | rVB | 289 | 180 | 0.03% | 0.003% |
| 83 | 10.578 | 2923 | 2925 | 2927 | rBV | 151 | 108 | 0.02% | 0.002% |
| 84 | 10.684 | 2953 | 2958 | 2960 | rBV | 191 | 180 | 0.03% | 0.003% |
| 85 | 10.726 | 2968 | 2971 | 2973 | rBV2 | 227 | 150 | 0.02% | 0.002% |
| 86 | 10.948 | 3038 | 3040 | 3042 | rBV | 226 | 121 | 0.02% | 0.002% |
| 87 | 11.073 | 3076 | 3079 | 3082 | rBV | 289 | 252 | 0.04% | 0.004% |
| 88 | 11.170 | 3106 | 3109 | 3115 | rVB2 | 241 | 257 | 0.04% | 0.004% |
| 89 | 11.244 | 3128 | 3132 | 3135 | rBV2 | 220 | 236 | 0.03% | 0.004% |
| 90 | 11.269 | 3138 | 3140 | 3142 | rVB | 268 | 101 | 0.01% | 0.002% |
| 91 | 11.337 | 3159 | 3161 | 3167 | rVB | 193 | 132 | 0.02% | 0.002% |
| 92 | 11.398 | 3176 | 3180 | 3182 | rBV2 | 284 | 233 | 0.03% | 0.004% |
| 93 | 11.485 | 3195 | 3207 | 3227 | rBV | 383472 | 607947 | 88.79% | 10.020% |
| 94 | 11.861 | 3307 | 3324 | 3343 | rBV | 314020 | 505170 | 73.78% | 8.326% |
| 95 | 12.311 | 3460 | 3464 | 3468 | rVB2 | 250 | 259 | 0.04% | 0.004% |
| 96 | 12.347 | 3473 | 3475 | 3479 | rBV2 | 297 | 212 | 0.03% | 0.003% |
| 97 | 12.404 | 3490 | 3493 | 3495 | rBV | 189 | 99 | 0.01% | 0.002% |
| 98 | 12.803 | 3615 | 3617 | 3620 | rBV | 230 | 132 | 0.02% | 0.002% |
| 99 | 12.845 | 3626 | 3630 | 3632 | rBV3 | 275 | 210 | 0.03% | 0.003% |
| 100 | 13.054 | 3690 | 3695 | 3697 | rBV | 379 | 343 | 0.05% | 0.006% |

Sum of corrected areas: 6067211

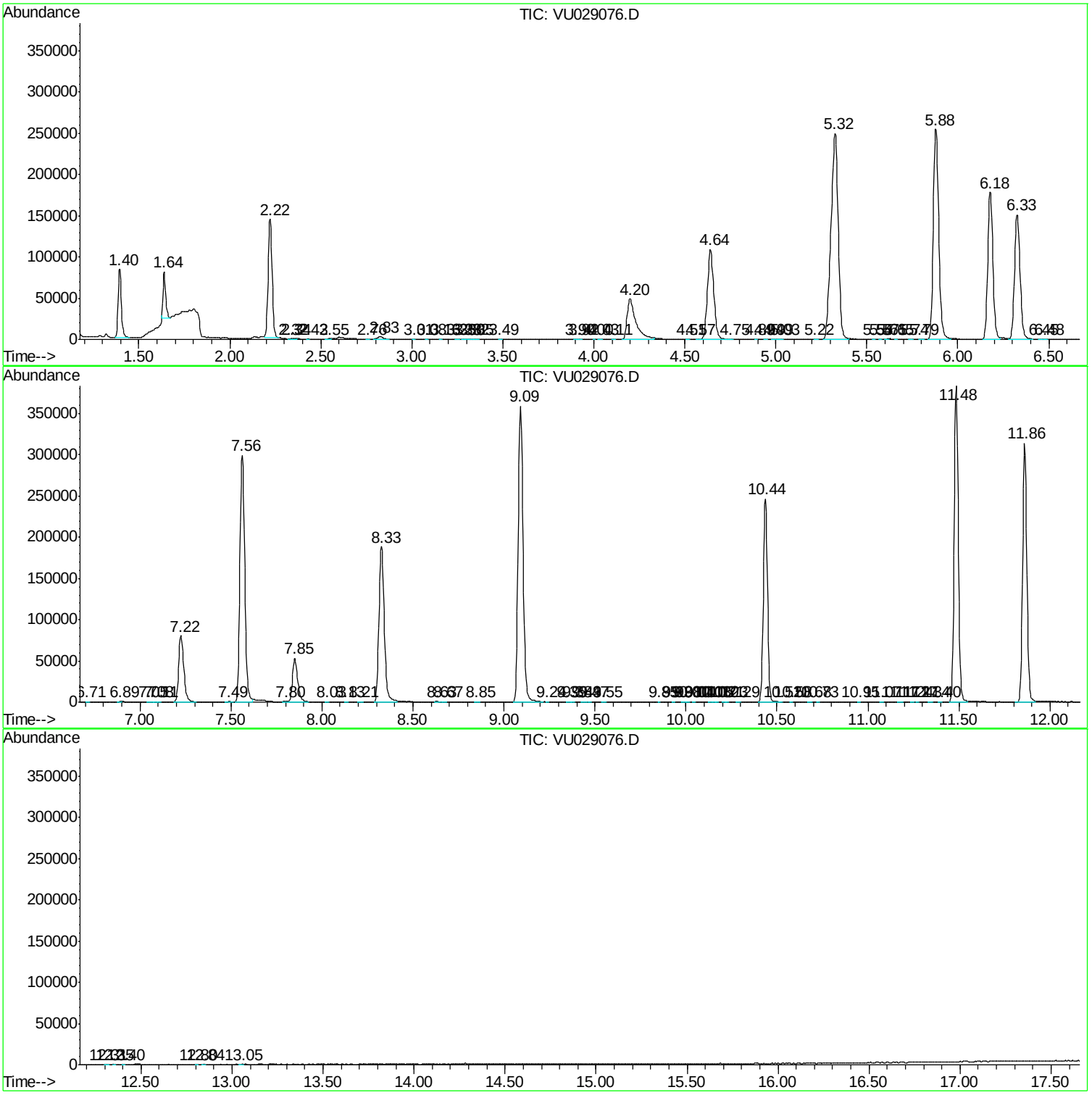
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010719\
Data File : VU029076.D
Acq On : 07 Jan 2019 23:05
Operator : MD/SY
Sample : K1051-12
Misc : 6.32g/10mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BE9Y0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.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\VU010719\
Data File : VU029076.D
Acq On : 07 Jan 2019 23:05
Operator : MD/SY
Sample : K1051-12
Misc : 6.32g/10mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BE9Y0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

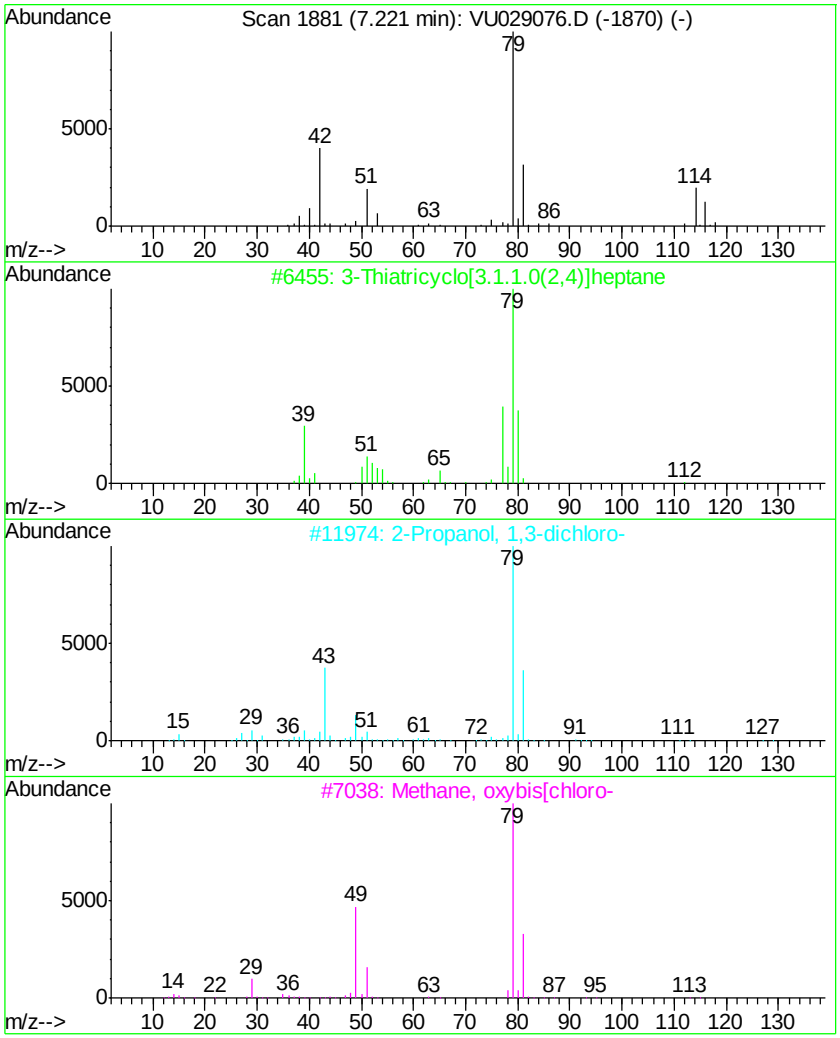
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

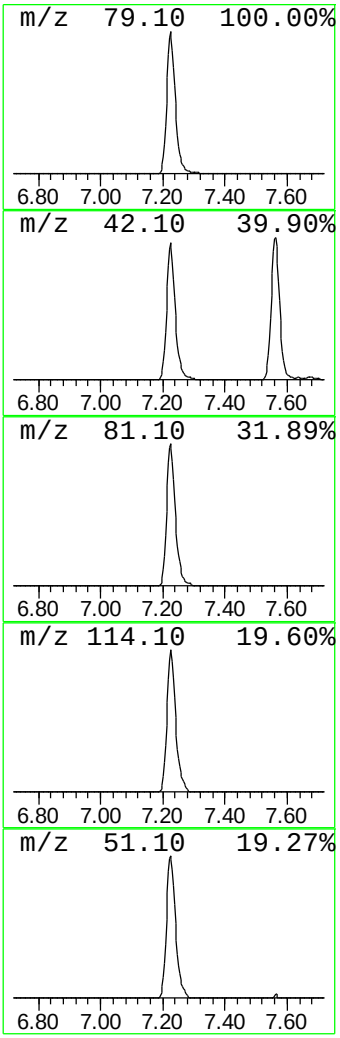
**********

Peak Number 1 unknown-01 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.22 | 14.76 ug/L | 155196 | 1,4-Difluorobenzene | 5.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Thiatricyclo[3.1.1.0(2,4)]heptane | 112 | C6H8S | 1000221-37-0 | 32 |
| 2 | 2-Propanol, 1,3-dichloro- | 128 | C3H6Cl2O | 000096-23-1 | 25 |
| 3 | Methane, oxybis[chloro- | 114 | C2H4Cl2O | 000542-88-1 | 25 |
| 4 | 2-Propanol, 1,3-dichloro- | 128 | C3H6Cl2O | 000096-23-1 | 23 |
| 5 | 1,3-Cyclohexadiene | 80 | C6H8 | 000592-57-4 | 23 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU010719\
Data File : VU029076.D
Acq On : 07 Jan 2019 23:05
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Misc : 6.32g/10mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BE9Y0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.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 |
| unknown-01 | 7.22 | 14.8 | ug/L | 155196 | 1 | 5.88 | 525852 | 50.0 |