# LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100120\
Data File : VV018591.D
Acq On : 01 Oct 2020 15:06
Operator : SY/MD
Sample : L4185-07
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** C0AS7

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_V\METHOD\SOMVLM092920WMA.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 | 1.315 | 64 | 70 | 78 | rVB | 34112 | 32844 | 4.68% | 0.595% |
| 2 | 1.579 | 145 | 152 | 161 | rBV | 43828 | 50230 | 7.16% | 0.910% |
| 3 | 2.122 | 314 | 321 | 330 | rBV2 | 47865 | 67781 | 9.67% | 1.228% |
| 4 | 2.782 | 524 | 526 | 529 | rBV | 440 | 281 | 0.04% | 0.005% |
| 5 | 3.000 | 591 | 594 | 595 | rBV2 | 252 | 134 | 0.02% | 0.002% |
| 6 | 3.058 | 602 | 612 | 616 | rBV4 | 1813 | 2904 | 0.41% | 0.053% |
| 7 | 3.161 | 640 | 644 | 652 | rBV | 281 | 344 | 0.05% | 0.006% |
| 8 | 3.200 | 652 | 656 | 657 | rBV | 205 | 122 | 0.02% | 0.002% |
| 9 | 3.270 | 674 | 678 | 680 | rVV2 | 250 | 202 | 0.03% | 0.004% |
| 10 | 3.309 | 685 | 690 | 692 | rBV2 | 219 | 152 | 0.02% | 0.003% |
| 11 | 3.331 | 693 | 697 | 698 | rBV2 | 198 | 152 | 0.02% | 0.003% |
| 12 | 3.441 | 726 | 731 | 733 | rBV2 | 490 | 342 | 0.05% | 0.006% |
| 13 | 3.486 | 741 | 745 | 750 | rVB | 235 | 167 | 0.02% | 0.003% |
| 14 | 3.521 | 750 | 756 | 759 | rBV4 | 359 | 438 | 0.06% | 0.008% |
| 15 | 3.550 | 762 | 765 | 768 | rVV2 | 254 | 177 | 0.03% | 0.003% |
| 16 | 3.679 | 801 | 805 | 811 | rBV | 180 | 227 | 0.03% | 0.004% |
| 17 | 3.823 | 846 | 850 | 854 | rBV2 | 179 | 187 | 0.03% | 0.003% |
| 18 | 3.920 | 869 | 880 | 920 | rBV | 70593 | 230508 | 32.88% | 4.176% |
| 19 | 4.106 | 929 | 938 | 970 | rVB2 | 25357 | 71998 | 10.27% | 1.304% |
| 20 | 4.376 | 1009 | 1022 | 1046 | rBV | 109767 | 268513 | 38.30% | 4.864% |
| 21 | 4.540 | 1070 | 1073 | 1078 | rBV3 | 499 | 455 | 0.06% | 0.008% |
| 22 | 4.576 | 1080 | 1084 | 1086 | rVB2 | 245 | 168 | 0.02% | 0.003% |
| 23 | 4.618 | 1091 | 1097 | 1100 | rBV3 | 486 | 554 | 0.08% | 0.010% |
| 24 | 4.650 | 1104 | 1107 | 1108 | rBV3 | 240 | 149 | 0.02% | 0.003% |
| 25 | 4.746 | 1135 | 1137 | 1141 | rBV2 | 224 | 147 | 0.02% | 0.003% |
| 26 | 4.772 | 1141 | 1145 | 1146 | rBV | 236 | 163 | 0.02% | 0.003% |
| 27 | 4.817 | 1157 | 1159 | 1164 | rVB2 | 273 | 199 | 0.03% | 0.004% |
| 28 | 4.846 | 1164 | 1168 | 1171 | rBV | 165 | 116 | 0.02% | 0.002% |
| 29 | 4.900 | 1183 | 1185 | 1187 | rBV | 259 | 121 | 0.02% | 0.002% |
| 30 | 5.071 | 1222 | 1238 | 1263 | rBV2 | 176253 | 466676 | 66.56% | 8.454% |
| 31 | 5.302 | 1308 | 1310 | 1313 | rBV3 | 403 | 263 | 0.04% | 0.005% |
| 32 | 5.373 | 1329 | 1332 | 1335 | rBV2 | 550 | 393 | 0.06% | 0.007% |
| 33 | 5.389 | 1335 | 1337 | 1339 | rVB2 | 388 | 161 | 0.02% | 0.003% |
| 34 | 5.437 | 1348 | 1352 | 1353 | rBV | 252 | 171 | 0.02% | 0.003% |

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Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** C0AS7

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_V\METHOD\SOMVLM092920WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 5.518 | 1374 | 1377 | 1381 | rBV | 380 | 246 | 0.04% | 0.004% |
| 36 | 5.556 | 1386 | 1389 | 1391 | rBV | 290 | 121 | 0.02% | 0.002% |
| 37 | 5.589 | 1396 | 1399 | 1403 | rVB3 | 415 | 287 | 0.04% | 0.005% |
| 38 | 5.643 | 1404 | 1416 | 1440 | rBV | 258842 | 514037 | 73.32% | 9.312% |
| 39 | 5.862 | 1482 | 1484 | 1487 | rBV2 | 265 | 138 | 0.02% | 0.002% |
| 40 | 5.926 | 1492 | 1504 | 1532 | rBV | 42244 | 88329 | 12.60% | 1.600% |
| 41 | 6.032 | 1536 | 1537 | 1540 | rBV | 230 | 127 | 0.02% | 0.002% |
| 42 | 6.093 | 1543 | 1556 | 1584 | rBV | 134243 | 276900 | 39.49% | 5.016% |
| 43 | 6.289 | 1613 | 1617 | 1620 | rVB2 | 439 | 320 | 0.05% | 0.006% |
| 44 | 6.331 | 1625 | 1630 | 1632 | rBV2 | 470 | 405 | 0.06% | 0.007% |
| 45 | 6.473 | 1672 | 1674 | 1677 | rBV | 376 | 196 | 0.03% | 0.004% |
| 46 | 6.511 | 1683 | 1686 | 1688 | rBV | 273 | 156 | 0.02% | 0.003% |
| 47 | 6.550 | 1692 | 1698 | 1701 | rVB3 | 480 | 341 | 0.05% | 0.006% |
| 48 | 6.569 | 1701 | 1704 | 1706 | rBV2 | 299 | 177 | 0.03% | 0.003% |
| 49 | 6.614 | 1714 | 1718 | 1721 | rBV2 | 221 | 178 | 0.03% | 0.003% |
| 50 | 6.669 | 1733 | 1735 | 1737 | rVB | 357 | 176 | 0.03% | 0.003% |
| 51 | 6.727 | 1750 | 1753 | 1757 | rBV2 | 347 | 328 | 0.05% | 0.006% |
| 52 | 6.820 | 1779 | 1782 | 1785 | rVB3 | 276 | 195 | 0.03% | 0.004% |
| 53 | 6.868 | 1793 | 1797 | 1800 | rBV2 | 209 | 145 | 0.02% | 0.003% |
| 54 | 6.926 | 1812 | 1815 | 1821 | rVB2 | 182 | 138 | 0.02% | 0.002% |
| 55 | 7.007 | 1829 | 1840 | 1863 | rBV2 | 72497 | 132456 | 18.89% | 2.399% |
| 56 | 7.187 | 1893 | 1896 | 1898 | rBV | 299 | 165 | 0.02% | 0.003% |
| 57 | 7.238 | 1907 | 1912 | 1916 | rBV3 | 327 | 278 | 0.04% | 0.005% |
| 58 | 7.341 | 1932 | 1944 | 1961 | rBV | 132153 | 232739 | 33.20% | 4.216% |
| 59 | 7.579 | 2015 | 2018 | 2019 | rBV | 294 | 135 | 0.02% | 0.002% |
| 60 | 7.643 | 2029 | 2038 | 2058 | rBV | 57729 | 102233 | 14.58% | 1.852% |
| 61 | 7.801 | 2084 | 2087 | 2090 | rVB3 | 632 | 418 | 0.06% | 0.008% |
| 62 | 7.836 | 2095 | 2098 | 2100 | rBV | 153 | 117 | 0.02% | 0.002% |
| 63 | 7.875 | 2107 | 2110 | 2112 | rBV | 240 | 130 | 0.02% | 0.002% |
| 64 | 8.003 | 2147 | 2150 | 2153 | rBV2 | 451 | 343 | 0.05% | 0.006% |
| 65 | 8.045 | 2159 | 2163 | 2166 | rBV2 | 214 | 181 | 0.03% | 0.003% |
| 66 | 8.109 | 2172 | 2183 | 2220 | rBV2 | 219050 | 485388 | 69.23% | 8.793% |
| 67 | 8.405 | 2273 | 2275 | 2280 | rVB2 | 783 | 481 | 0.07% | 0.009% |
| 68 | 8.450 | 2284 | 2289 | 2292 | rBV3 | 710 | 640 | 0.09% | 0.012% |
| 69 | 8.505 | 2304 | 2306 | 2311 | rBV3 | 521 | 310 | 0.04% | 0.006% |
| 70 | 8.527 | 2311 | 2313 | 2315 | rBV | 257 | 123 | 0.02% | 0.002% |
| 71 | 8.630 | 2343 | 2345 | 2348 | rBV2 | 251 | 154 | 0.02% | 0.003% |

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Sample : L4185-07
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** C0AS7

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_V\METHOD\SOMVLM092920WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 8.714 | 2368 | 2371 | 2375 | rBV2 | 340 | 263 | 0.04% | 0.005% |
| 73 | 8.810 | 2397 | 2401 | 2403 | rBV2 | 180 | 125 | 0.02% | 0.002% |
| 74 | 8.875 | 2405 | 2421 | 2446 | rBV | 395844 | 657494 | 93.78% | 11.911% |
| 75 | 9.129 | 2497 | 2500 | 2505 | rVB | 287 | 203 | 0.03% | 0.004% |
| 76 | 9.164 | 2505 | 2511 | 2513 | rBV2 | 509 | 453 | 0.06% | 0.008% |
| 77 | 9.238 | 2528 | 2534 | 2536 | rBV | 323 | 296 | 0.04% | 0.005% |
| 78 | 9.566 | 2633 | 2636 | 2638 | rBV3 | 332 | 253 | 0.04% | 0.005% |
| 79 | 9.739 | 2684 | 2690 | 2693 | rBV4 | 938 | 977 | 0.14% | 0.018% |
| 80 | 9.839 | 2714 | 2721 | 2722 | rBV2 | 667 | 519 | 0.07% | 0.009% |
| 81 | 10.048 | 2778 | 2786 | 2791 | rBV3 | 1301 | 1738 | 0.25% | 0.031% |
| 82 | 10.183 | 2824 | 2828 | 2833 | rBV2 | 208 | 261 | 0.04% | 0.005% |
| 83 | 10.238 | 2833 | 2845 | 2862 | rBV | 262535 | 413177 | 58.93% | 7.485% |
| 84 | 10.383 | 2887 | 2890 | 2893 | rBV3 | 558 | 360 | 0.05% | 0.007% |
| 85 | 10.402 | 2893 | 2896 | 2898 | rBV3 | 745 | 544 | 0.08% | 0.010% |
| 86 | 10.476 | 2913 | 2919 | 2925 | rBV3 | 637 | 852 | 0.12% | 0.015% |
| 87 | 10.553 | 2940 | 2943 | 2944 | rBV | 234 | 130 | 0.02% | 0.002% |
| 88 | 10.756 | 3002 | 3006 | 3009 | rBV | 360 | 222 | 0.03% | 0.004% |
| 89 | 10.858 | 3036 | 3038 | 3045 | rVB2 | 294 | 250 | 0.04% | 0.005% |
| 90 | 11.080 | 3104 | 3107 | 3111 | rVB2 | 695 | 554 | 0.08% | 0.010% |
| 91 | 11.206 | 3144 | 3146 | 3152 | rVB | 328 | 198 | 0.03% | 0.004% |
| 92 | 11.270 | 3155 | 3166 | 3191 | rBV | 428670 | 659527 | 94.07% | 11.948% |
| 93 | 11.553 | 3242 | 3254 | 3266 | rBV3 | 14770 | 27858 | 3.97% | 0.505% |
| 94 | 11.646 | 3271 | 3283 | 3303 | rVB | 452858 | 701121 | 100.00% | 12.701% |
| 95 | 12.244 | 3466 | 3469 | 3471 | rBV | 461 | 273 | 0.04% | 0.005% |
| 96 | 12.273 | 3477 | 3478 | 3480 | rBV2 | 407 | 164 | 0.02% | 0.003% |
| 97 | 12.373 | 3503 | 3509 | 3521 | rVB6 | 2242 | 3336 | 0.48% | 0.060% |
| 98 | 12.694 | 3601 | 3609 | 3619 | rVB4 | 7502 | 11623 | 1.66% | 0.211% |
| 99 | 12.964 | 3688 | 3693 | 3696 | rBV3 | 416 | 381 | 0.05% | 0.007% |
| 100 | 13.067 | 3722 | 3725 | 3731 | rBV2 | 352 | 372 | 0.05% | 0.007% |

Sum of corrected areas: 5520194

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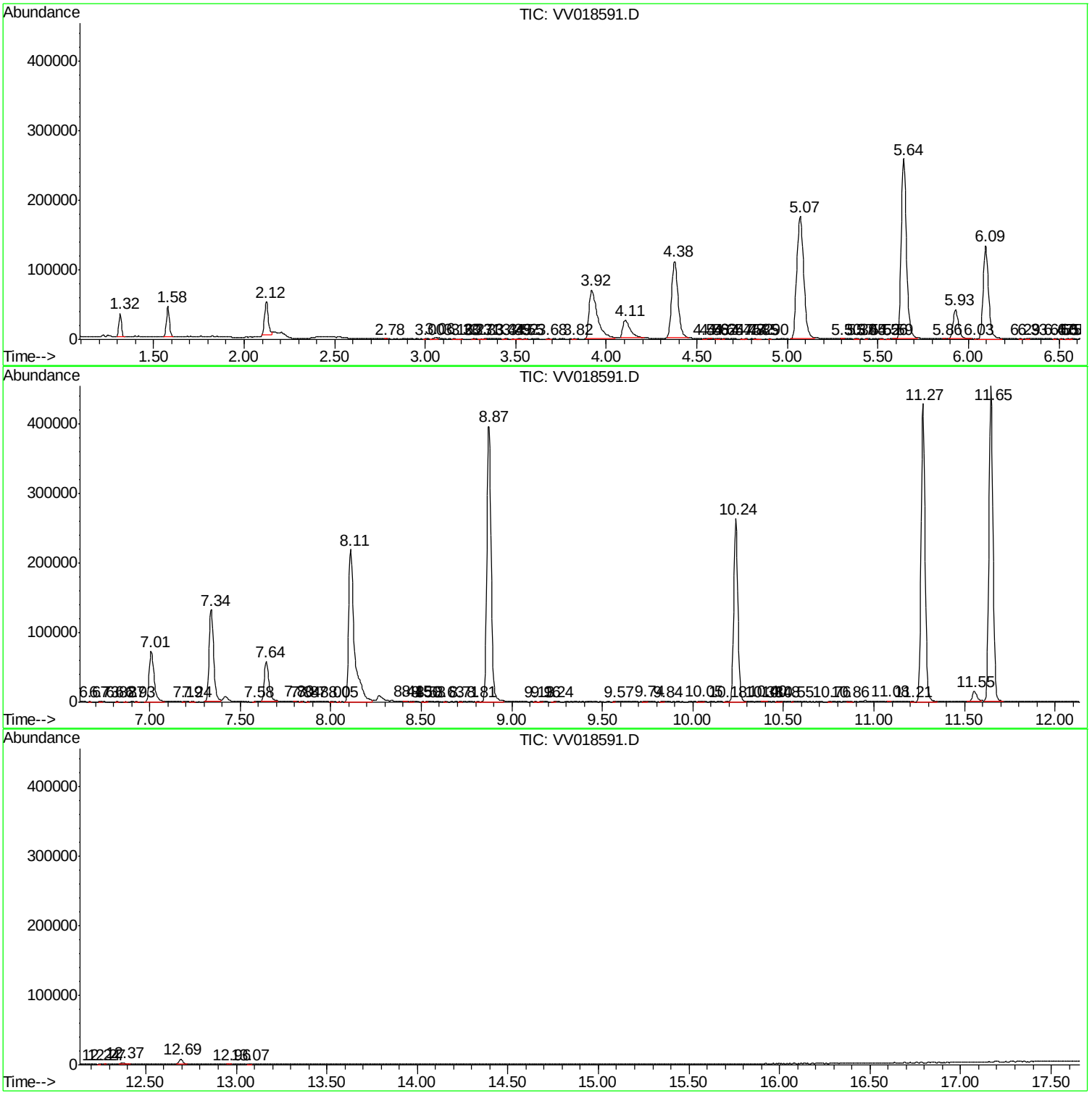
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** C0AS7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.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_V\DATA\VV100120\
Data File : VV018591.D
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Operator : SY/MD
Sample : L4185-07
Misc : 5.0mL/MSVOA_V/WATER
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**Instrument :** MSVOA_V
**ClientSampleId :** C0AS7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
Quant Title : VOC Analysis

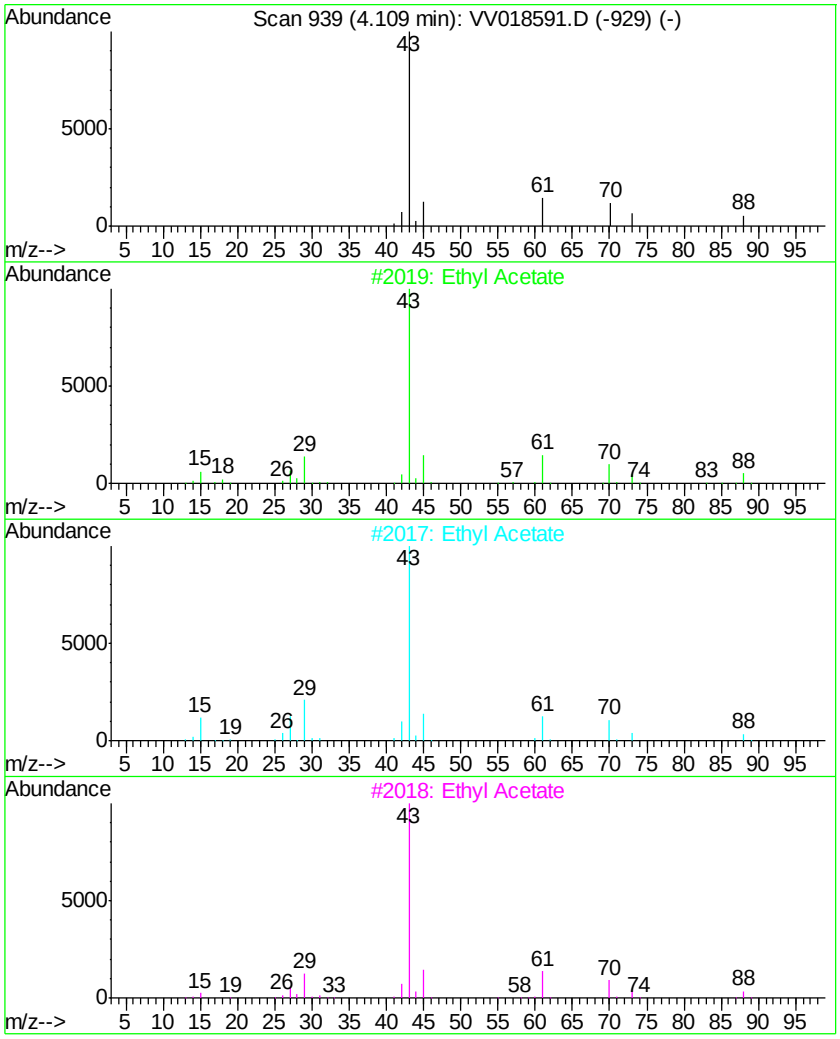
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

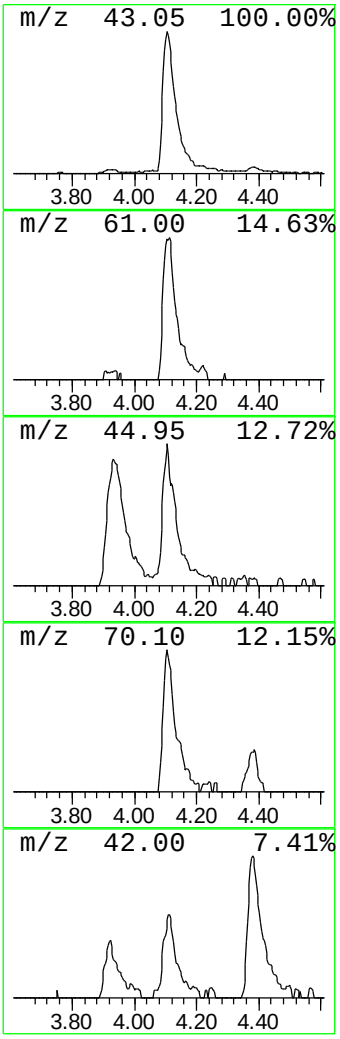
**********

Peak Number 1 Ethyl Acetate Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.11 | 7.00 ug/L | 71998 | 1,4-Difluorobenzene | 5.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethyl Acetate | 88 | C4H8O2 | 000141-78-6 | 90 |
| 2 | Ethyl Acetate | 88 | C4H8O2 | 000141-78-6 | 90 |
| 3 | Ethyl Acetate | 88 | C4H8O2 | 000141-78-6 | 90 |
| 4 | Ethyl Acetate | 88 | C4H8O2 | 000141-78-6 | 90 |
| 5 | CH3C(O)CH2CH2OH | 88 | C4H8O2 | 000590-90-9 | 45 |



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ALS Vial : 12 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** C0AS7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
Quant Title : VOC Analysis

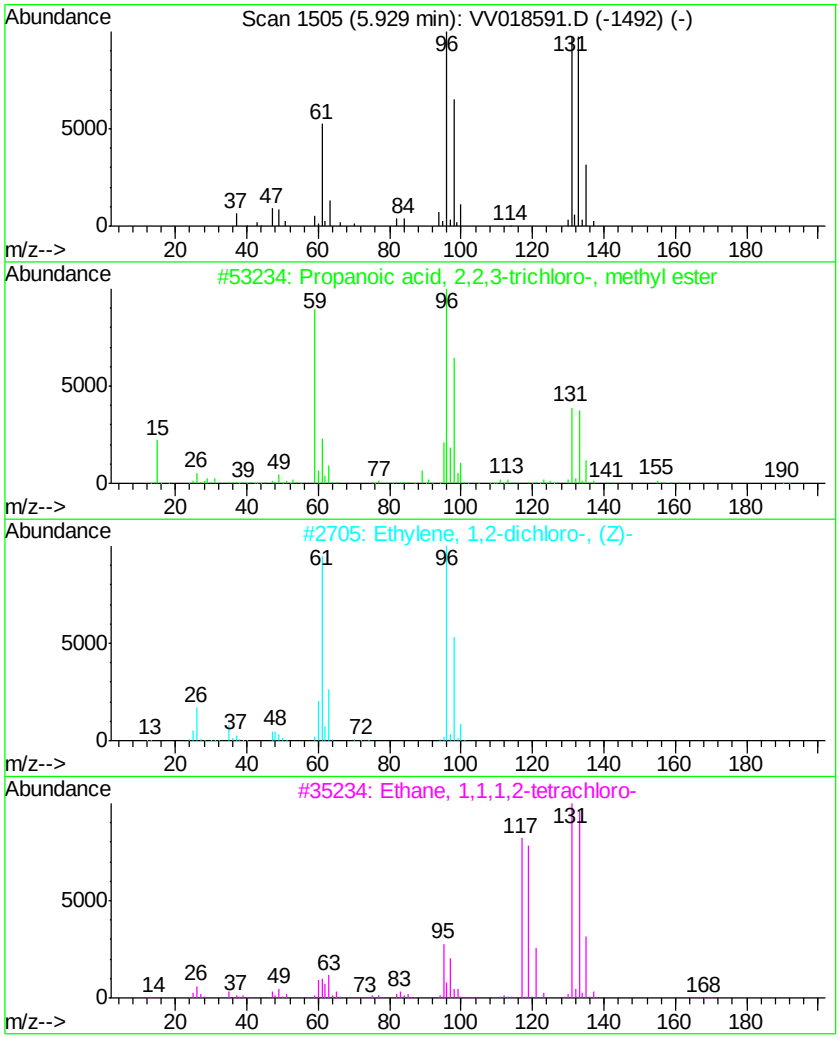
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

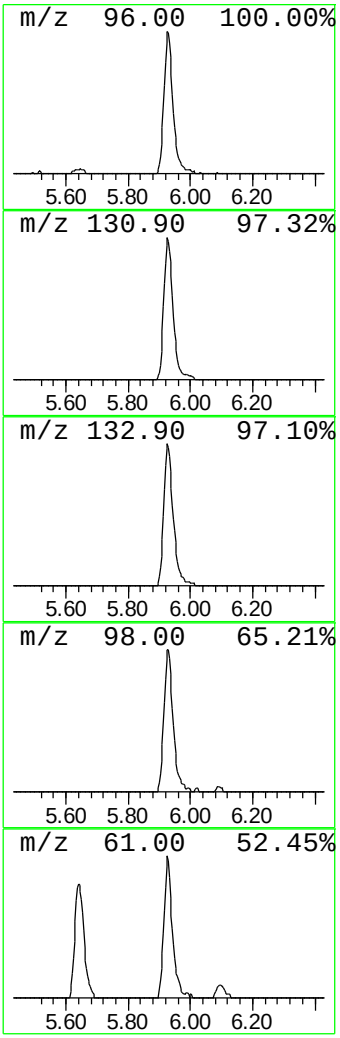
**********

Peak Number 2 Propanoic acid, 2,2,3-trich... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.93 | 8.59 ug/L | 88329 | 1,4-Difluorobenzene | 5.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanoic acid, 2,2,3-trichloro-... | 190 | C4H5Cl3O2 | 004749-35-3 | 50 |
| 2 | Ethylene, 1,2-dichloro-, (Z)- | 96 | C2H2Cl2 | 000156-59-2 | 35 |
| 3 | Ethane, 1,1,1,2-tetrachloro- | 166 | C2H2Cl4 | 000630-20-6 | 25 |
| 4 | Dihydro-4,5-dichloro-2(3H)furanone | 154 | C4H4Cl2O2 | 114434-99-0 | 25 |
| 5 | Ethylene, 1,2-dichloro-, (Z)- | 96 | C2H2Cl2 | 000156-59-2 | 22 |



Tentatively Identified Compound (LSC) summary

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ALS Vial : 12 Sample Multiplier: 1

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
Quant Title : VOC Analysis

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TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Ethyl Acetate | 4.11 | 7.0 | ug/L | 71998 | 1 | 5.64 | 514037 | 50.0 |
| Propanoic acid, 2... | 5.93 | 8.6 | ug/L | 88329 | 1 | 5.64 | 514037 | 50.0 |