# LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040519\
Data File : VU030731.D
Acq On : 05 Apr 2019 10:26
Operator : JC/SP
Sample : K2271-01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB7C4

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\SOMULM040519WMA.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 | 29 | rBV | 14159 | 11278 | 0.57% | 0.038% |
| 2 | 1.199 | 29 | 34 | 46 | rVB | 200285 | 201100 | 10.15% | 0.676% |
| 3 | 1.289 | 56 | 62 | 67 | rBV | 53673 | 53381 | 2.69% | 0.180% |
| 4 | 1.321 | 67 | 72 | 85 | rVB | 224469 | 222763 | 11.25% | 0.749% |
| 5 | 1.395 | 87 | 95 | 112 | rBV2 | 659697 | 725271 | 36.61% | 2.439% |
| 6 | 1.604 | 155 | 160 | 166 | rVB | 97687 | 101933 | 5.15% | 0.343% |
| 7 | 1.662 | 172 | 178 | 183 | rBV | 174339 | 241794 | 12.21% | 0.813% |
| 8 | 1.874 | 234 | 244 | 262 | rBV | 400194 | 578982 | 29.23% | 1.947% |
| 9 | 2.273 | 354 | 368 | 381 | rBV5 | 1069387 | 1980847 | 100.00% | 6.662% |
| 10 | 2.524 | 441 | 446 | 447 | rBV2 | 960 | 804 | 0.04% | 0.003% |
| 11 | 2.563 | 454 | 458 | 464 | rBV6 | 1436 | 1812 | 0.09% | 0.006% |
| 12 | 2.694 | 486 | 499 | 523 | rBV | 343614 | 632410 | 31.93% | 2.127% |
| 13 | 2.839 | 539 | 544 | 550 | rVB7 | 972 | 1191 | 0.06% | 0.004% |
| 14 | 2.868 | 550 | 553 | 565 | rVB7 | 1235 | 1801 | 0.09% | 0.006% |
| 15 | 2.923 | 565 | 570 | 572 | rBV2 | 528 | 428 | 0.02% | 0.001% |
| 16 | 2.974 | 572 | 586 | 607 | rBV | 171781 | 327543 | 16.54% | 1.102% |
| 17 | 3.190 | 649 | 653 | 658 | rBV3 | 993 | 870 | 0.04% | 0.003% |
| 18 | 3.296 | 682 | 686 | 687 | rBV | 737 | 478 | 0.02% | 0.002% |
| 19 | 3.437 | 709 | 730 | 754 | rBV | 375641 | 849233 | 42.87% | 2.856% |
| 20 | 3.559 | 766 | 768 | 773 | rVB2 | 988 | 753 | 0.04% | 0.003% |
| 21 | 3.608 | 773 | 783 | 787 | rBV5 | 1050 | 1612 | 0.08% | 0.005% |
| 22 | 3.704 | 809 | 813 | 817 | rBV5 | 698 | 601 | 0.03% | 0.002% |
| 23 | 3.878 | 862 | 867 | 871 | rBV4 | 552 | 483 | 0.02% | 0.002% |
| 24 | 3.923 | 878 | 881 | 886 | rVB3 | 670 | 627 | 0.03% | 0.002% |
| 25 | 3.952 | 886 | 890 | 892 | rBV2 | 616 | 446 | 0.02% | 0.002% |
| 26 | 4.009 | 905 | 908 | 915 | rVB2 | 851 | 969 | 0.05% | 0.003% |
| 27 | 4.170 | 947 | 958 | 964 | rBV | 192139 | 394228 | 19.90% | 1.326% |
| 28 | 4.543 | 1057 | 1074 | 1090 | rBV2 | 216480 | 512111 | 25.85% | 1.722% |
| 29 | 4.659 | 1091 | 1110 | 1137 | rVB4 | 476520 | 1575948 | 79.56% | 5.301% |
| 30 | 4.910 | 1171 | 1188 | 1208 | rVB2 | 140437 | 337897 | 17.06% | 1.136% |
| 31 | 5.128 | 1237 | 1256 | 1280 | rBV | 364310 | 855910 | 43.21% | 2.879% |
| 32 | 5.334 | 1297 | 1320 | 1327 | rBV2 | 618222 | 1782452 | 89.98% | 5.995% |
| 33 | 5.714 | 1431 | 1438 | 1446 | rBV8 | 2978 | 4848 | 0.24% | 0.016% |
| 34 | 5.784 | 1457 | 1460 | 1465 | rVB5 | 1015 | 966 | 0.05% | 0.003% |

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Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB7C4

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\SOMULM040519WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 5.810 | 1465 | 1468 | 1472 | rBV3 | 1146 | 923 | 0.05% | 0.003% |
| 36 | 5.881 | 1477 | 1490 | 1519 | rBV | 529741 | 1063239 | 53.68% | 3.576% |
| 37 | 6.180 | 1567 | 1583 | 1605 | rBV | 755848 | 1487096 | 75.07% | 5.002% |
| 38 | 6.324 | 1614 | 1628 | 1647 | rBV | 409076 | 817545 | 41.27% | 2.750% |
| 39 | 6.427 | 1648 | 1660 | 1678 | rVB2 | 365406 | 714209 | 36.06% | 2.402% |
| 40 | 6.640 | 1719 | 1726 | 1729 | rBV5 | 1129 | 1082 | 0.05% | 0.004% |
| 41 | 6.752 | 1748 | 1761 | 1780 | rBV | 135305 | 260143 | 13.13% | 0.875% |
| 42 | 6.897 | 1796 | 1806 | 1819 | rBV5 | 11804 | 25153 | 1.27% | 0.085% |
| 43 | 6.974 | 1827 | 1830 | 1832 | rBV4 | 932 | 717 | 0.04% | 0.002% |
| 44 | 7.157 | 1883 | 1887 | 1891 | rBV5 | 952 | 1076 | 0.05% | 0.004% |
| 45 | 7.225 | 1896 | 1908 | 1914 | rBV | 244799 | 417895 | 21.10% | 1.406% |
| 46 | 7.267 | 1916 | 1921 | 1950 | rVB | 218087 | 381166 | 19.24% | 1.282% |
| 47 | 7.395 | 1953 | 1961 | 1978 | rBV3 | 23741 | 50846 | 2.57% | 0.171% |
| 48 | 7.559 | 2000 | 2012 | 2034 | rBV | 784954 | 1403402 | 70.85% | 4.720% |
| 49 | 7.849 | 2091 | 2102 | 2103 | rBV | 190396 | 221134 | 11.16% | 0.744% |
| 50 | 8.064 | 2157 | 2169 | 2190 | rBV | 267495 | 464427 | 23.45% | 1.562% |
| 51 | 8.222 | 2205 | 2218 | 2235 | rBV | 764008 | 1308012 | 66.03% | 4.399% |
| 52 | 8.308 | 2235 | 2245 | 2284 | rVV | 581271 | 1070807 | 54.06% | 3.602% |
| 53 | 8.472 | 2284 | 2296 | 2313 | rVB | 263597 | 453824 | 22.91% | 1.526% |
| 54 | 8.582 | 2320 | 2330 | 2357 | rVB | 147941 | 267232 | 13.49% | 0.899% |
| 55 | 8.775 | 2387 | 2390 | 2393 | rVV4 | 1220 | 781 | 0.04% | 0.003% |
| 56 | 8.791 | 2393 | 2395 | 2400 | rVV5 | 735 | 641 | 0.03% | 0.002% |
| 57 | 8.887 | 2419 | 2425 | 2427 | rBV4 | 1087 | 836 | 0.04% | 0.003% |
| 58 | 9.022 | 2464 | 2467 | 2470 | rVB3 | 749 | 440 | 0.02% | 0.001% |
| 59 | 9.086 | 2475 | 2487 | 2508 | rBV | 772088 | 1305013 | 65.88% | 4.389% |
| 60 | 9.202 | 2511 | 2523 | 2548 | rVB | 575978 | 978753 | 49.41% | 3.292% |
| 61 | 9.324 | 2558 | 2561 | 2562 | rBV | 701 | 388 | 0.02% | 0.001% |
| 62 | 9.350 | 2567 | 2569 | 2574 | rVV5 | 570 | 424 | 0.02% | 0.001% |
| 63 | 9.469 | 2604 | 2606 | 2611 | rVB3 | 1083 | 631 | 0.03% | 0.002% |
| 64 | 9.537 | 2625 | 2627 | 2631 | rVV3 | 542 | 380 | 0.02% | 0.001% |
| 65 | 9.630 | 2652 | 2656 | 2657 | rBV3 | 780 | 500 | 0.03% | 0.002% |
| 66 | 9.662 | 2663 | 2666 | 2669 | rBV4 | 634 | 411 | 0.02% | 0.001% |
| 67 | 9.723 | 2683 | 2685 | 2688 | rVB2 | 831 | 432 | 0.02% | 0.001% |
| 68 | 9.819 | 2712 | 2715 | 2720 | rBV4 | 615 | 657 | 0.03% | 0.002% |
| 69 | 9.955 | 2744 | 2757 | 2784 | rBV | 273838 | 470305 | 23.74% | 1.582% |
| 70 | 10.112 | 2804 | 2806 | 2812 | rVB3 | 965 | 818 | 0.04% | 0.003% |
| 71 | 10.263 | 2850 | 2853 | 2856 | rBV4 | 497 | 401 | 0.02% | 0.001% |

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Sample : K2271-01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB7C4

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\SOMULM040519WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 10.286 | 2857 | 2860 | 2865 | rVB2 | 628 | 492 | 0.02% | 0.002% |
| 73 | 10.427 | 2892 | 2904 | 2909 | rBV | 566874 | 969952 | 48.97% | 3.262% |
| 74 | 10.578 | 2948 | 2951 | 2956 | rVB5 | 628 | 504 | 0.03% | 0.002% |
| 75 | 10.617 | 2959 | 2963 | 2967 | rVB4 | 1213 | 1027 | 0.05% | 0.003% |
| 76 | 10.639 | 2967 | 2970 | 2974 | rBV3 | 834 | 704 | 0.04% | 0.002% |
| 77 | 10.694 | 2983 | 2987 | 2995 | rVB4 | 974 | 1254 | 0.06% | 0.004% |
| 78 | 10.729 | 2995 | 2998 | 3001 | rBV3 | 977 | 620 | 0.03% | 0.002% |
| 79 | 10.768 | 3003 | 3010 | 3011 | rBV3 | 1723 | 1331 | 0.07% | 0.004% |
| 80 | 10.974 | 3066 | 3074 | 3084 | rBV4 | 4410 | 6125 | 0.31% | 0.021% |
| 81 | 11.022 | 3087 | 3089 | 3093 | rVB4 | 664 | 402 | 0.02% | 0.001% |
| 82 | 11.099 | 3106 | 3113 | 3115 | rBV5 | 3074 | 3454 | 0.17% | 0.012% |
| 83 | 11.144 | 3115 | 3127 | 3152 | rVV | 963085 | 1478139 | 74.62% | 4.972% |
| 84 | 11.350 | 3189 | 3191 | 3196 | rBV5 | 811 | 816 | 0.04% | 0.003% |
| 85 | 11.479 | 3220 | 3231 | 3252 | rBV | 759322 | 1210859 | 61.13% | 4.073% |
| 86 | 11.855 | 3334 | 3348 | 3374 | rBV | 704438 | 1172472 | 59.19% | 3.943% |
| 87 | 12.318 | 3490 | 3492 | 3494 | rVB2 | 962 | 394 | 0.02% | 0.001% |
| 88 | 12.347 | 3498 | 3501 | 3503 | rBV3 | 714 | 470 | 0.02% | 0.002% |
| 89 | 12.479 | 3539 | 3542 | 3544 | rBV2 | 1026 | 572 | 0.03% | 0.002% |
| 90 | 12.652 | 3585 | 3596 | 3614 | rBV2 | 172823 | 298237 | 15.06% | 1.003% |
| 91 | 12.858 | 3657 | 3660 | 3666 | rVB5 | 1167 | 1040 | 0.05% | 0.003% |
| 92 | 12.916 | 3676 | 3678 | 3683 | rVB3 | 1284 | 775 | 0.04% | 0.003% |
| 93 | 13.051 | 3717 | 3720 | 3722 | rBV3 | 920 | 577 | 0.03% | 0.002% |
| 94 | 13.282 | 3789 | 3792 | 3794 | rBV | 529 | 374 | 0.02% | 0.001% |
| 95 | 13.601 | 3888 | 3891 | 3894 | rBV4 | 1046 | 677 | 0.03% | 0.002% |
| 96 | 13.643 | 3899 | 3904 | 3907 | rBV4 | 1253 | 1333 | 0.07% | 0.004% |
| 97 | 13.749 | 3934 | 3937 | 3939 | rBV2 | 980 | 631 | 0.03% | 0.002% |
| 98 | 13.771 | 3941 | 3944 | 3946 | rBV2 | 1674 | 1045 | 0.05% | 0.004% |
| 99 | 13.938 | 3994 | 3996 | 4002 | rVB5 | 939 | 801 | 0.04% | 0.003% |
| 100 | 14.266 | 4095 | 4098 | 4103 | rBV4 | 1313 | 1289 | 0.07% | 0.004% |

Sum of corrected areas: 29731875

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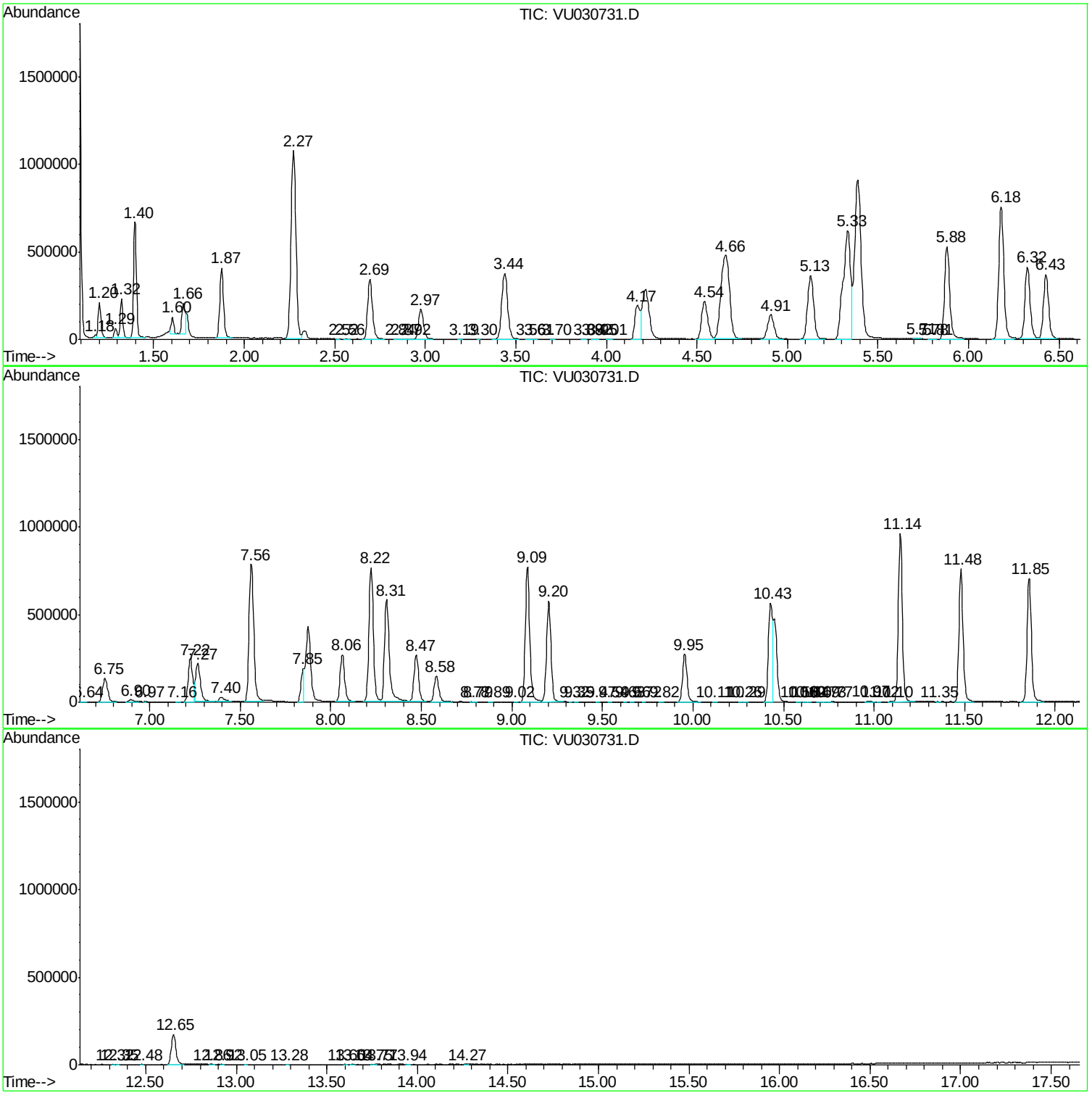
ALS Vial : 48 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
DB7C4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

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



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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

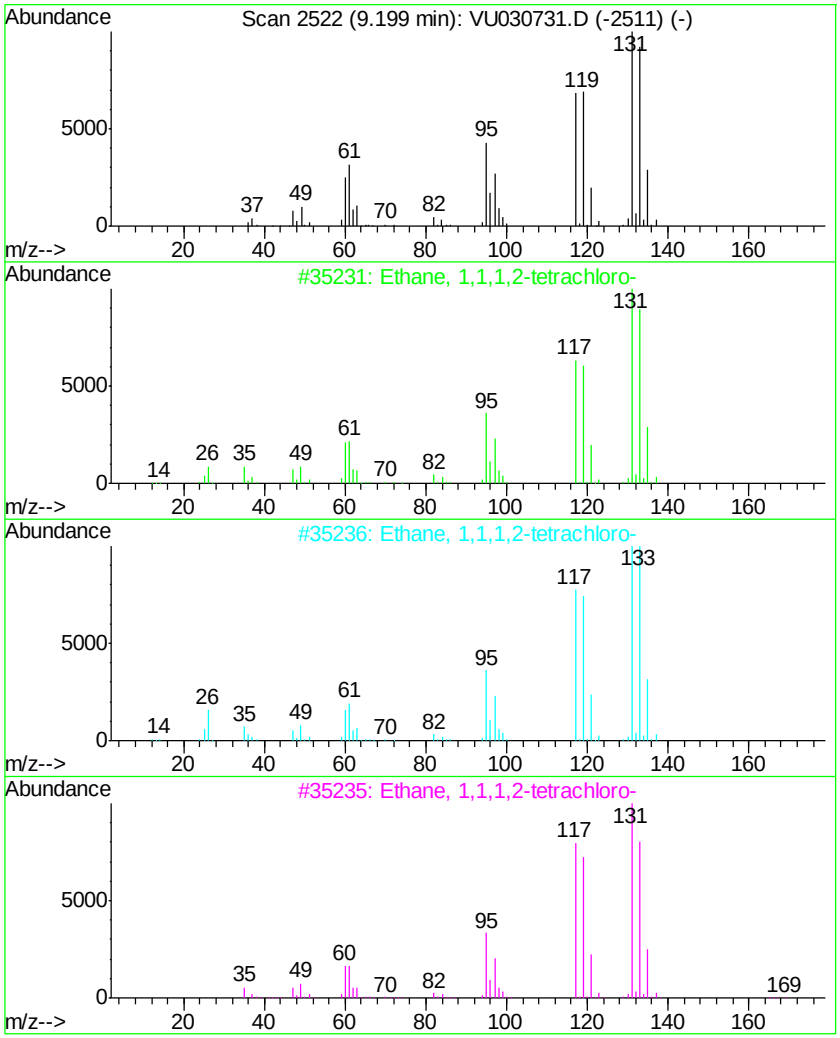
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

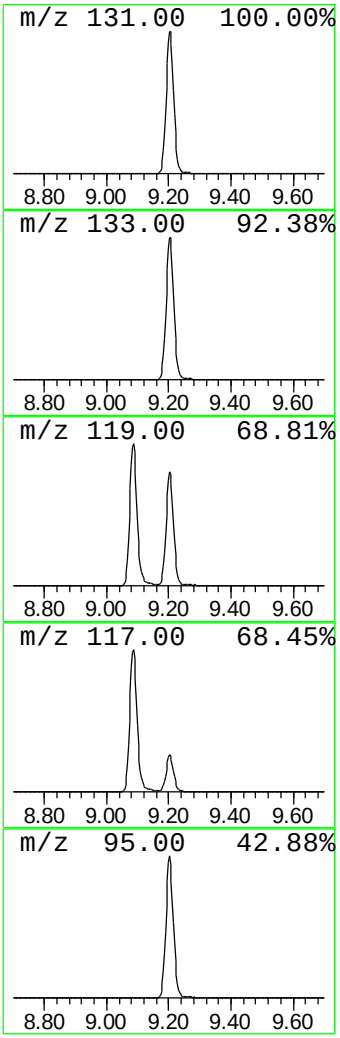
**********

Peak Number 1 Ethane, 1,1,1,2-tetrachloro- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.20 | 37.50 ug/L | 978753 | Chlorobenzene-d5 | 9.09 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethane, 1,1,1,2-tetrachloro- | 166 | C2H2Cl4 | 000630-20-6 | 91 |
| 2 | Ethane, 1,1,1,2-tetrachloro- | 166 | C2H2Cl4 | 000630-20-6 | 91 |
| 3 | Ethane, 1,1,1,2-tetrachloro- | 166 | C2H2Cl4 | 000630-20-6 | 86 |
| 4 | Ethane, 1,1,1,2-tetrachloro- | 166 | C2H2Cl4 | 000630-20-6 | 64 |
| 5 | Benzoxazole, 2-methyl- | 133 | C8H7NO | 000095-21-6 | 9 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040519\
Data File : VU030731.D
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ALS Vial : 48 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** DB7C4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

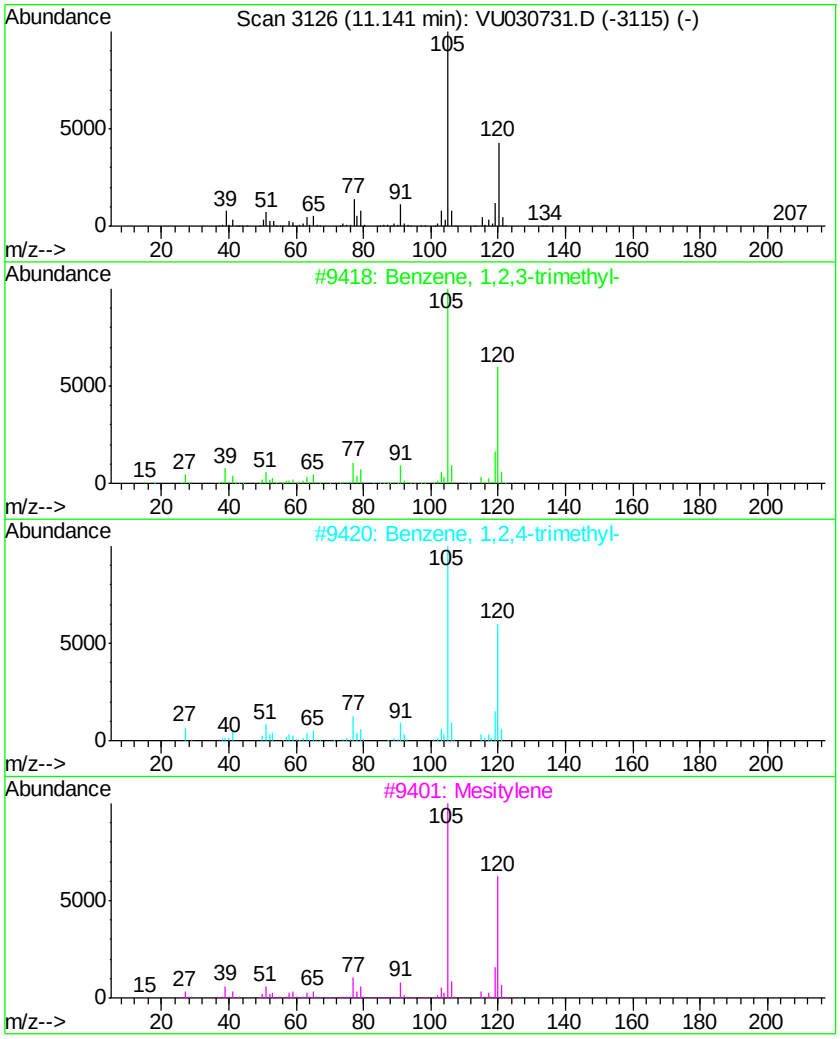
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

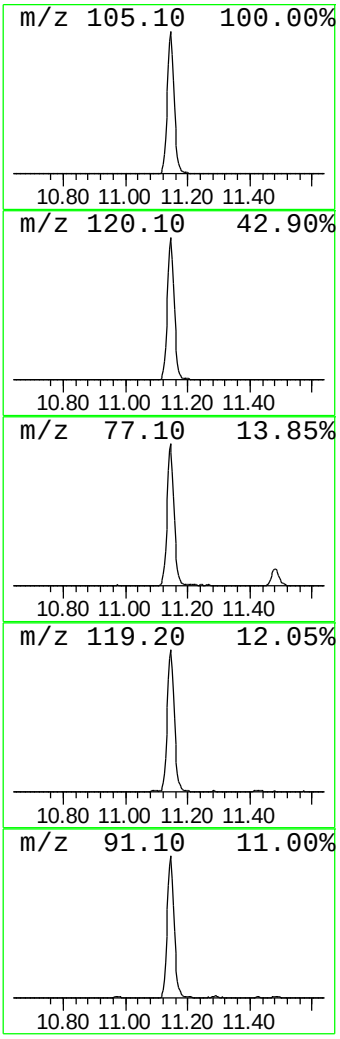
**********

Peak Number 2 Benzene, 1,2,4-trimethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.14 | 61.04 ug/L | 1478140 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 97 |
| 2 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 95 |
| 3 | Mesitylene | 120 | C9H12 | 000108-67-8 | 95 |
| 4 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 94 |
| 5 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 94 |



Tentatively Identified Compound (LSC) summary

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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 |
| Ethane, 1,1,1,2-t... | 9.20 | 37.5 | ug/L | 978753 | 2 | 9.09 | 1305010 | 50.0 |
| Benzene, 1,2,4-tr... | 11.14 | 61.0 | ug/L | 1478140 | 3 | 11.48 | 1210860 | 50.0 |