LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032019\
Data File : VU030220.D
Acq On : 20 Mar 2019 10:28
Operator : JC/SP
Sample : K1967-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C09H6

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\SOMULM031919WMA.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 | 1.183 | 25 | 29 | 37 | rVB2 | 11119 | 10073 | 0.59% | 0.074% |
| 2 | 1.399 | 89 | 96 | 110 | rBV | 253665 | 253100 | 14.74% | 1.854% |
| 3 | 1.682 | 175 | 184 | 200 | rBV | 187256 | 236748 | 13.79% | 1.734% |
| 4 | 2.270 | 357 | 367 | 379 | rBV | 401241 | 612934 | 35.70% | 4.490% |
| 5 | 2.389 | 402 | 404 | 410 | rVB4 | 1399 | 1133 | 0.07% | 0.008% |
| 6 | 2.444 | 413 | 421 | 438 | rVB | 24384 | 44422 | 2.59% | 0.325% |
| 7 | 2.682 | 492 | 495 | 498 | rBV2 | 815 | 659 | 0.04% | 0.005% |
| 8 | 2.833 | 537 | 542 | 547 | rBV2 | 2262 | 2833 | 0.17% | 0.021% |
| 9 | 2.977 | 583 | 587 | 588 | rBV | 1201 | 814 | 0.05% | 0.006% |
| 10 | 3.067 | 612 | 615 | 621 | rVB | 1216 | 1106 | 0.06% | 0.008% |
| 11 | 3.151 | 637 | 641 | 644 | rBV2 | 962 | 855 | 0.05% | 0.006% |
| 12 | 3.366 | 704 | 708 | 712 | rVB | 1053 | 991 | 0.06% | 0.007% |
| 13 | 3.473 | 737 | 741 | 745 | rVB2 | 1083 | 974 | 0.06% | 0.007% |
| 14 | 3.501 | 746 | 750 | 753 | rBV | 799 | 681 | 0.04% | 0.005% |
| 15 | 3.900 | 870 | 874 | 878 | rBV2 | 1166 | 987 | 0.06% | 0.007% |
| 16 | 3.923 | 878 | 881 | 884 | rVB2 | 988 | 659 | 0.04% | 0.005% |
| 17 | 4.177 | 948 | 960 | 997 | rBV | 151358 | 404389 | 23.55% | 2.962% |
| 18 | 4.382 | 1014 | 1024 | 1045 | rBV2 | 51001 | 119266 | 6.95% | 0.874% |
| 19 | 4.543 | 1071 | 1074 | 1083 | rVB4 | 1952 | 2485 | 0.14% | 0.018% |
| 20 | 4.646 | 1088 | 1106 | 1129 | rBV | 275753 | 663715 | 38.66% | 4.862% |
| 21 | 4.871 | 1171 | 1176 | 1178 | rBV3 | 1597 | 1483 | 0.09% | 0.011% |
| 22 | 4.955 | 1199 | 1202 | 1208 | rBV | 962 | 762 | 0.04% | 0.006% |
| 23 | 5.170 | 1265 | 1269 | 1272 | rBV | 1250 | 1009 | 0.06% | 0.007% |
| 24 | 5.212 | 1279 | 1282 | 1286 | rBV | 954 | 890 | 0.05% | 0.007% |
| 25 | 5.337 | 1297 | 1321 | 1365 | rVV2 | 581676 | 1716844 | 100.00% | 12.576% |
| 26 | 5.595 | 1397 | 1401 | 1404 | rVB | 916 | 663 | 0.04% | 0.005% |
| 27 | 5.816 | 1467 | 1470 | 1472 | rBV | 912 | 692 | 0.04% | 0.005% |
| 28 | 5.884 | 1476 | 1491 | 1525 | rBV | 535319 | 1096308 | 63.86% | 8.031% |
| 29 | 6.183 | 1581 | 1584 | 1590 | rBV3 | 747 | 705 | 0.04% | 0.005% |
| 30 | 6.257 | 1600 | 1607 | 1610 | rBV2 | 765 | 1099 | 0.06% | 0.008% |
| 31 | 6.328 | 1616 | 1629 | 1656 | rBV | 366578 | 747241 | 43.52% | 5.474% |
| 32 | 6.553 | 1697 | 1699 | 1705 | rVB2 | 880 | 658 | 0.04% | 0.005% |
| 33 | 6.788 | 1770 | 1772 | 1778 | rVB2 | 778 | 673 | 0.04% | 0.005% |
| 34 | 6.878 | 1795 | 1800 | 1803 | rVV3 | 687 | 730 | 0.04% | 0.005% |

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Sample : K1967-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C09H6

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\SOMULM031919WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 7.051 | 1848 | 1854 | 1856 | rVB | 951 | 828 | 0.05% | 0.006% |
| 36 | 7.070 | 1856 | 1860 | 1862 | rBV | 1454 | 1073 | 0.06% | 0.008% |
| 37 | 7.225 | 1897 | 1908 | 1932 | rBV | 202145 | 373501 | 21.76% | 2.736% |
| 38 | 7.562 | 1995 | 2013 | 2037 | rBV | 794798 | 1405160 | 81.85% | 10.293% |
| 39 | 7.849 | 2092 | 2102 | 2127 | rBV | 137699 | 247656 | 14.43% | 1.814% |
| 40 | 7.984 | 2142 | 2144 | 2150 | rVB4 | 1544 | 1447 | 0.08% | 0.011% |
| 41 | 8.013 | 2150 | 2153 | 2157 | rBV2 | 1115 | 967 | 0.06% | 0.007% |
| 42 | 8.083 | 2168 | 2175 | 2178 | rBV2 | 849 | 853 | 0.05% | 0.006% |
| 43 | 8.177 | 2195 | 2204 | 2217 | rVB3 | 8066 | 13846 | 0.81% | 0.101% |
| 44 | 8.308 | 2234 | 2245 | 2275 | rBV | 508585 | 929233 | 54.12% | 6.807% |
| 45 | 8.527 | 2309 | 2313 | 2316 | rBV2 | 814 | 738 | 0.04% | 0.005% |
| 46 | 8.623 | 2341 | 2343 | 2352 | rVB2 | 940 | 1001 | 0.06% | 0.007% |
| 47 | 8.662 | 2352 | 2355 | 2361 | rBV3 | 930 | 770 | 0.04% | 0.006% |
| 48 | 8.704 | 2361 | 2368 | 2373 | rVB3 | 1076 | 1336 | 0.08% | 0.010% |
| 49 | 8.730 | 2373 | 2376 | 2379 | rVB | 1297 | 849 | 0.05% | 0.006% |
| 50 | 8.762 | 2379 | 2386 | 2391 | rBV3 | 1244 | 1934 | 0.11% | 0.014% |
| 51 | 8.951 | 2439 | 2445 | 2449 | rBV2 | 876 | 1058 | 0.06% | 0.008% |
| 52 | 8.980 | 2449 | 2454 | 2461 | rVB | 1119 | 1512 | 0.09% | 0.011% |
| 53 | 9.022 | 2461 | 2467 | 2471 | rBV | 824 | 1003 | 0.06% | 0.007% |
| 54 | 9.086 | 2474 | 2487 | 2508 | rBV | 785655 | 1334940 | 77.76% | 9.779% |
| 55 | 9.244 | 2533 | 2536 | 2542 | rVB3 | 1126 | 942 | 0.05% | 0.007% |
| 56 | 9.276 | 2542 | 2546 | 2549 | rVB4 | 1227 | 972 | 0.06% | 0.007% |
| 57 | 9.308 | 2549 | 2556 | 2558 | rBV3 | 927 | 1067 | 0.06% | 0.008% |
| 58 | 9.456 | 2598 | 2602 | 2607 | rBV | 923 | 938 | 0.05% | 0.007% |
| 59 | 9.492 | 2607 | 2613 | 2615 | rBV | 760 | 660 | 0.04% | 0.005% |
| 60 | 9.553 | 2629 | 2632 | 2635 | rBV2 | 880 | 678 | 0.04% | 0.005% |
| 61 | 9.736 | 2681 | 2689 | 2696 | rBV | 1081 | 1148 | 0.07% | 0.008% |
| 62 | 9.868 | 2725 | 2730 | 2733 | rBV2 | 841 | 819 | 0.05% | 0.006% |
| 63 | 9.887 | 2733 | 2736 | 2739 | rVB2 | 1150 | 729 | 0.04% | 0.005% |
| 64 | 9.906 | 2739 | 2742 | 2747 | rBV | 943 | 939 | 0.05% | 0.007% |
| 65 | 10.093 | 2796 | 2800 | 2803 | rBV | 808 | 671 | 0.04% | 0.005% |
| 66 | 10.324 | 2868 | 2872 | 2875 | rBV3 | 853 | 734 | 0.04% | 0.005% |
| 67 | 10.427 | 2892 | 2904 | 2927 | rBV | 558467 | 902348 | 52.56% | 6.610% |
| 68 | 10.601 | 2949 | 2958 | 2969 | rBV4 | 5779 | 10628 | 0.62% | 0.078% |
| 69 | 10.726 | 2994 | 2997 | 3002 | rBV | 766 | 709 | 0.04% | 0.005% |
| 70 | 11.086 | 3101 | 3109 | 3113 | rBV4 | 1607 | 1846 | 0.11% | 0.014% |
| 71 | 11.173 | 3132 | 3136 | 3143 | rVB2 | 753 | 888 | 0.05% | 0.007% |

LSC Area Percent Report

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Sample : K1967-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C09H6

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\SOMULM031919WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.369 | 3191 | 3197 | 3202 | rBV | 1107 | 1526 | 0.09% | 0.011% |
| 73 | 11.482 | 3219 | 3232 | 3253 | rBV | 748870 | 1221744 | 71.16% | 8.950% |
| 74 | 11.800 | 3328 | 3331 | 3336 | rBV | 1715 | 1547 | 0.09% | 0.011% |
| 75 | 11.858 | 3336 | 3349 | 3378 | rBV | 739950 | 1227920 | 71.52% | 8.995% |
| 76 | 12.109 | 3423 | 3427 | 3430 | rBV3 | 1142 | 814 | 0.05% | 0.006% |
| 77 | 12.144 | 3435 | 3438 | 3443 | rBV2 | 796 | 832 | 0.05% | 0.006% |
| 78 | 12.170 | 3443 | 3446 | 3450 | rBV | 1015 | 720 | 0.04% | 0.005% |
| 79 | 12.192 | 3450 | 3453 | 3458 | rVV2 | 1164 | 945 | 0.06% | 0.007% |
| 80 | 12.218 | 3458 | 3461 | 3465 | rVB | 1447 | 1052 | 0.06% | 0.008% |
| 81 | 12.241 | 3465 | 3468 | 3471 | rBV2 | 1279 | 954 | 0.06% | 0.007% |
| 82 | 12.472 | 3536 | 3540 | 3543 | rBV2 | 1644 | 1229 | 0.07% | 0.009% |
| 83 | 12.575 | 3570 | 3572 | 3577 | rVB2 | 890 | 679 | 0.04% | 0.005% |
| 84 | 12.717 | 3613 | 3616 | 3618 | rBV2 | 1184 | 749 | 0.04% | 0.005% |
| 85 | 12.819 | 3642 | 3648 | 3650 | rBV2 | 1403 | 1328 | 0.08% | 0.010% |
| 86 | 12.893 | 3666 | 3671 | 3677 | rBV2 | 1291 | 1960 | 0.11% | 0.014% |
| 87 | 13.215 | 3769 | 3771 | 3775 | rVB | 1099 | 707 | 0.04% | 0.005% |
| 88 | 13.369 | 3816 | 3819 | 3824 | rVB2 | 1079 | 900 | 0.05% | 0.007% |
| 89 | 13.520 | 3863 | 3866 | 3868 | rBV2 | 1145 | 821 | 0.05% | 0.006% |
| 90 | 13.823 | 3957 | 3960 | 3964 | rBV2 | 1051 | 960 | 0.06% | 0.007% |
| 91 | 13.929 | 3989 | 3993 | 3996 | rBV2 | 983 | 793 | 0.05% | 0.006% |
| 92 | 13.948 | 3996 | 3999 | 4002 | rVB2 | 1118 | 737 | 0.04% | 0.005% |
| 93 | 14.347 | 4120 | 4123 | 4125 | rBV2 | 1086 | 721 | 0.04% | 0.005% |
| 94 | 14.434 | 4146 | 4150 | 4152 | rBV | 1225 | 946 | 0.06% | 0.007% |
| 95 | 14.578 | 4192 | 4195 | 4200 | rVB3 | 1355 | 1055 | 0.06% | 0.008% |
| 96 | 14.716 | 4236 | 4238 | 4242 | rBV | 778 | 677 | 0.04% | 0.005% |
| 97 | 14.954 | 4309 | 4312 | 4316 | rBV2 | 1085 | 855 | 0.05% | 0.006% |
| 98 | 15.286 | 4412 | 4415 | 4417 | rBV3 | 1129 | 836 | 0.05% | 0.006% |
| 99 | 15.440 | 4460 | 4463 | 4467 | rBV3 | 1340 | 1010 | 0.06% | 0.007% |
| 100 | 15.732 | 4551 | 4554 | 4559 | rBV4 | 1373 | 1402 | 0.08% | 0.010% |

Sum of corrected areas: 13651421

LSC Report - Integrated Chromatogram

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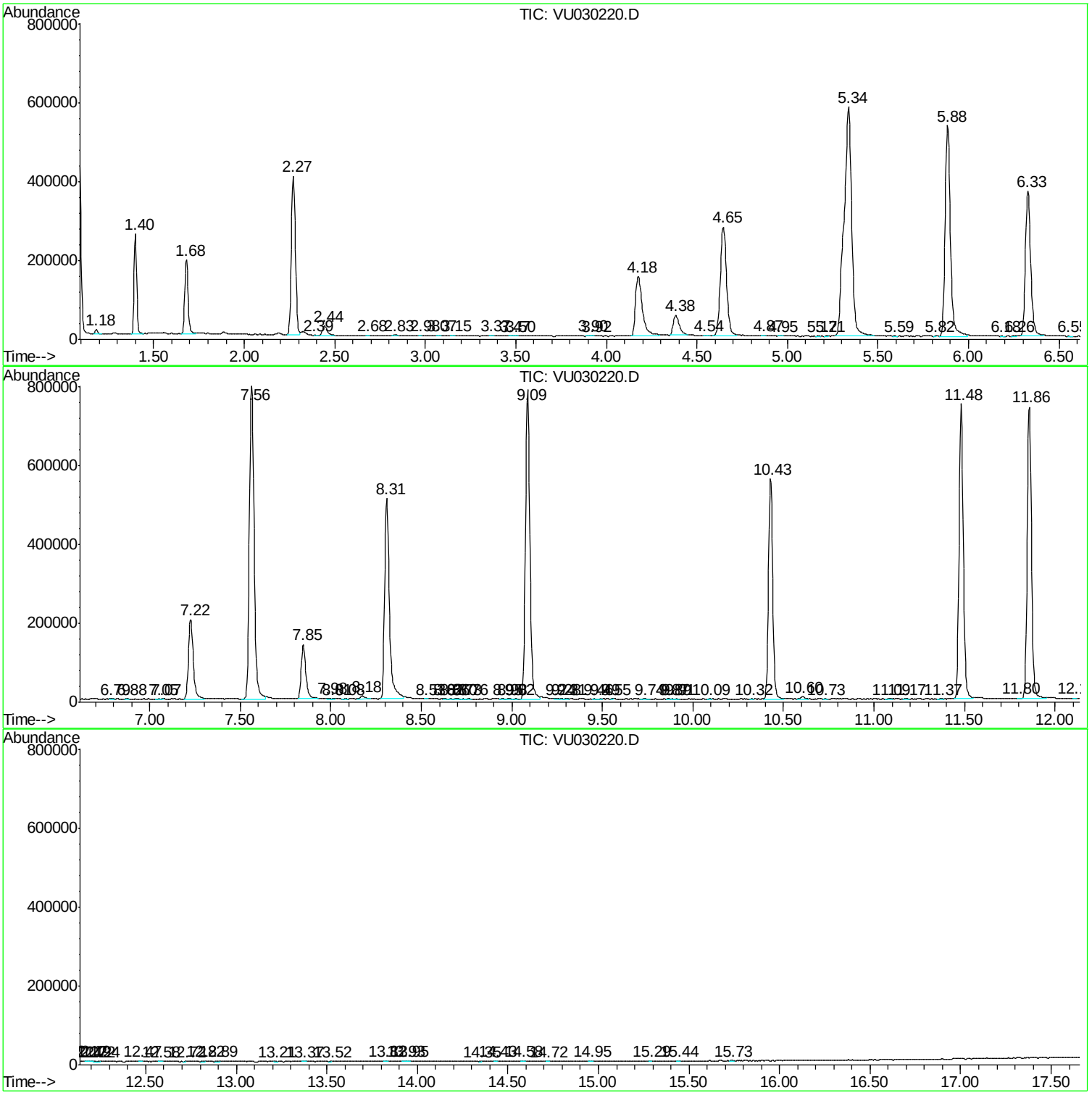
Sample : K1967-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C09H6

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.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\VU032019\
Data File : VU030220.D
Acq On : 20 Mar 2019 10:28
Operator : JC/SP
Sample : K1967-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C09H6

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis

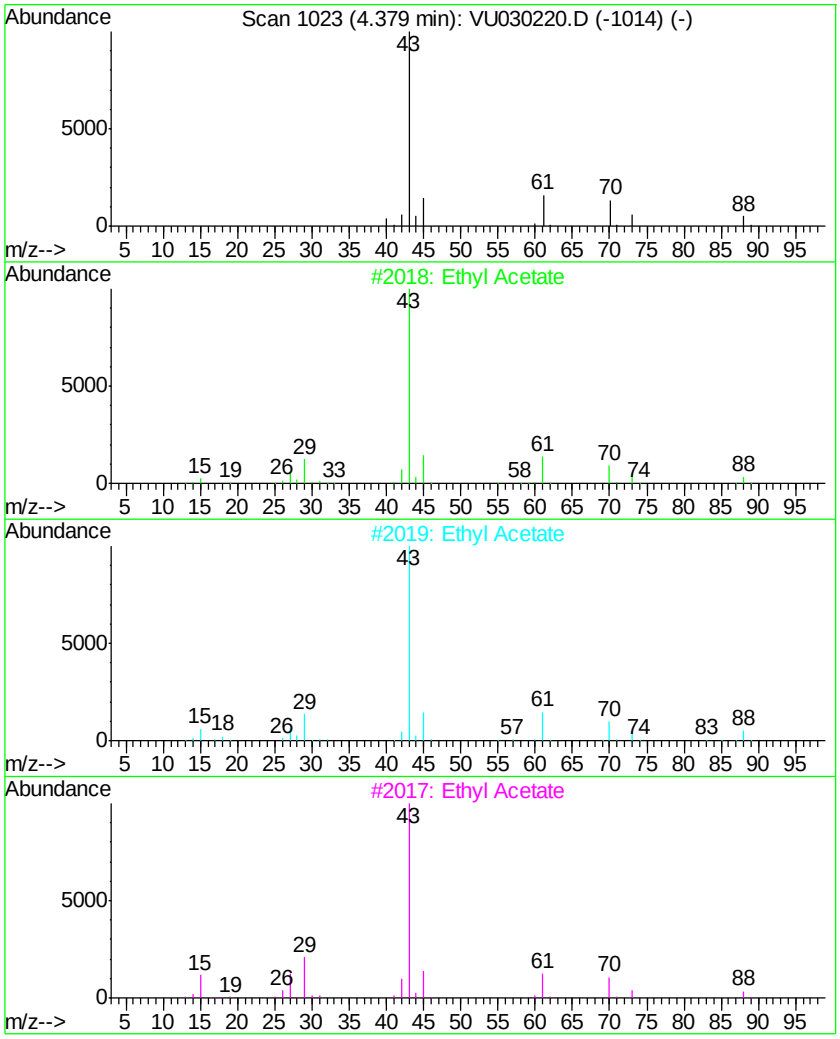
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

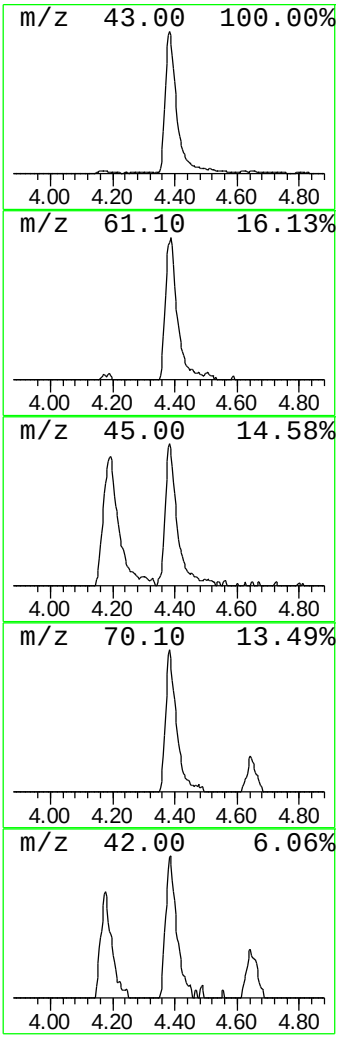
**********

Peak Number 1 Ethyl Acetate Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.38 | 5.44 ug/L | 119266 | 1,4-Difluorobenzene | 5.88 |

| 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 | 86 |
| 4 | Ethyl Acetate | 88 | C4H8O2 | 000141-78-6 | 83 |
| 5 | CH3C(O)CH2CH2OH | 88 | C4H8O2 | 000590-90-9 | 64 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032019\
Data File : VU030220.D
Acq On : 20 Mar 2019 10:28
Operator : JC/SP
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Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C09H6

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.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 |
| Ethyl Acetate | 4.38 | 5.4 | ug/L | 119266 | 1 | 5.88 | 1096310 | 50.0 |