LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072519\
Data File : VU033398.D
Acq On : 25 Jul 2019 10:32
Operator : JC/SP
Sample : K3976-07
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0CC7

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\SOMULM071219WMA.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 | 1.389 | 86 | 93 | 105 | rBV | 125517 | 131703 | 14.25% | 1.717% |
| 2 | 1.544 | 134 | 141 | 154 | rVB | 21204 | 28644 | 3.10% | 0.373% |
| 3 | 1.669 | 172 | 180 | 193 | rBV | 113621 | 146475 | 15.85% | 1.910% |
| 4 | 2.254 | 352 | 362 | 373 | rBV | 212224 | 322069 | 34.84% | 4.199% |
| 5 | 2.370 | 395 | 398 | 402 | rBV3 | 447 | 379 | 0.04% | 0.005% |
| 6 | 2.428 | 407 | 416 | 435 | rVB | 15512 | 28543 | 3.09% | 0.372% |
| 7 | 2.566 | 457 | 459 | 464 | rVB3 | 356 | 268 | 0.03% | 0.003% |
| 8 | 2.617 | 472 | 475 | 477 | rBV3 | 429 | 324 | 0.04% | 0.004% |
| 9 | 2.772 | 521 | 523 | 526 | rVV | 285 | 181 | 0.02% | 0.002% |
| 10 | 2.820 | 526 | 538 | 553 | rVB2 | 8362 | 17446 | 1.89% | 0.227% |
| 11 | 2.939 | 571 | 575 | 579 | rVB | 227 | 156 | 0.02% | 0.002% |
| 12 | 3.161 | 640 | 644 | 647 | rBV2 | 295 | 210 | 0.02% | 0.003% |
| 13 | 3.402 | 713 | 719 | 724 | rBV3 | 280 | 331 | 0.04% | 0.004% |
| 14 | 3.527 | 750 | 758 | 764 | rBV3 | 385 | 546 | 0.06% | 0.007% |
| 15 | 3.621 | 782 | 787 | 789 | rBV2 | 268 | 213 | 0.02% | 0.003% |
| 16 | 3.762 | 829 | 831 | 836 | rVB2 | 289 | 156 | 0.02% | 0.002% |
| 17 | 4.151 | 940 | 952 | 984 | rBV2 | 86896 | 250153 | 27.06% | 3.262% |
| 18 | 4.357 | 1005 | 1016 | 1051 | rVB2 | 47742 | 120723 | 13.06% | 1.574% |
| 19 | 4.511 | 1062 | 1064 | 1071 | rVV2 | 558 | 421 | 0.05% | 0.005% |
| 20 | 4.540 | 1071 | 1073 | 1077 | rVB2 | 494 | 290 | 0.03% | 0.004% |
| 21 | 4.621 | 1082 | 1098 | 1121 | rBV | 161894 | 388239 | 42.00% | 5.062% |
| 22 | 4.740 | 1133 | 1135 | 1140 | rVB | 525 | 345 | 0.04% | 0.004% |
| 23 | 4.772 | 1140 | 1145 | 1150 | rVB4 | 441 | 523 | 0.06% | 0.007% |
| 24 | 4.862 | 1166 | 1173 | 1176 | rBV4 | 738 | 817 | 0.09% | 0.011% |
| 25 | 5.023 | 1216 | 1223 | 1224 | rBV2 | 179 | 201 | 0.02% | 0.003% |
| 26 | 5.109 | 1245 | 1250 | 1252 | rBV | 284 | 191 | 0.02% | 0.002% |
| 27 | 5.315 | 1291 | 1314 | 1346 | rBV2 | 300734 | 924354 | 100.00% | 12.052% |
| 28 | 5.508 | 1372 | 1374 | 1378 | rVB2 | 360 | 267 | 0.03% | 0.003% |
| 29 | 5.566 | 1387 | 1392 | 1394 | rBV2 | 218 | 208 | 0.02% | 0.003% |
| 30 | 5.598 | 1400 | 1402 | 1409 | rVB2 | 389 | 328 | 0.04% | 0.004% |
| 31 | 5.630 | 1409 | 1412 | 1415 | rBV2 | 198 | 166 | 0.02% | 0.002% |
| 32 | 5.656 | 1417 | 1420 | 1423 | rVB3 | 282 | 165 | 0.02% | 0.002% |
| 33 | 5.730 | 1440 | 1443 | 1445 | rBV2 | 274 | 163 | 0.02% | 0.002% |
| 34 | 5.865 | 1471 | 1485 | 1520 | rBV | 309016 | 622615 | 67.36% | 8.118% |

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Operator : JC/SP
Sample : K3976-07
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0CC7

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\SOMULM071219WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 6.125 | 1563 | 1566 | 1567 | rBV2 | 253 | 169 | 0.02% | 0.002% |
| 36 | 6.164 | 1571 | 1578 | 1582 | rVV5 | 750 | 947 | 0.10% | 0.012% |
| 37 | 6.248 | 1597 | 1604 | 1605 | rBV3 | 334 | 312 | 0.03% | 0.004% |
| 38 | 6.309 | 1609 | 1623 | 1643 | rBV | 210729 | 424856 | 45.96% | 5.539% |
| 39 | 6.498 | 1680 | 1682 | 1686 | rVB | 255 | 200 | 0.02% | 0.003% |
| 40 | 6.595 | 1709 | 1712 | 1715 | rBV | 233 | 160 | 0.02% | 0.002% |
| 41 | 6.759 | 1760 | 1763 | 1771 | rVB2 | 267 | 187 | 0.02% | 0.002% |
| 42 | 6.807 | 1776 | 1778 | 1783 | rVB2 | 316 | 251 | 0.03% | 0.003% |
| 43 | 6.849 | 1783 | 1791 | 1796 | rBV3 | 515 | 666 | 0.07% | 0.009% |
| 44 | 6.868 | 1796 | 1797 | 1802 | rVB2 | 282 | 221 | 0.02% | 0.003% |
| 45 | 6.974 | 1822 | 1830 | 1834 | rBV2 | 328 | 431 | 0.05% | 0.006% |
| 46 | 7.003 | 1834 | 1839 | 1842 | rVV | 278 | 282 | 0.03% | 0.004% |
| 47 | 7.035 | 1846 | 1849 | 1855 | rVB2 | 179 | 216 | 0.02% | 0.003% |
| 48 | 7.209 | 1891 | 1903 | 1922 | rBV | 110776 | 200054 | 21.64% | 2.608% |
| 49 | 7.328 | 1938 | 1940 | 1943 | rVB | 488 | 291 | 0.03% | 0.004% |
| 50 | 7.344 | 1943 | 1945 | 1949 | rBV3 | 247 | 205 | 0.02% | 0.003% |
| 51 | 7.405 | 1961 | 1964 | 1965 | rBV | 298 | 168 | 0.02% | 0.002% |
| 52 | 7.415 | 1965 | 1967 | 1973 | rVB | 378 | 221 | 0.02% | 0.003% |
| 53 | 7.547 | 1994 | 2008 | 2039 | rBV | 385626 | 693785 | 75.06% | 9.046% |
| 54 | 7.833 | 2087 | 2097 | 2118 | rVV | 77308 | 134583 | 14.56% | 1.755% |
| 55 | 8.071 | 2168 | 2171 | 2175 | rBV | 198 | 181 | 0.02% | 0.002% |
| 56 | 8.164 | 2187 | 2200 | 2212 | rBV2 | 10615 | 18872 | 2.04% | 0.246% |
| 57 | 8.292 | 2229 | 2240 | 2279 | rBV | 252892 | 469172 | 50.76% | 6.117% |
| 58 | 8.482 | 2296 | 2299 | 2304 | rVV2 | 489 | 452 | 0.05% | 0.006% |
| 59 | 8.505 | 2304 | 2306 | 2308 | rVB2 | 505 | 237 | 0.03% | 0.003% |
| 60 | 8.575 | 2325 | 2328 | 2334 | rBV4 | 263 | 216 | 0.02% | 0.003% |
| 61 | 8.800 | 2393 | 2398 | 2400 | rBV | 182 | 179 | 0.02% | 0.002% |
| 62 | 8.836 | 2407 | 2409 | 2415 | rVB2 | 274 | 202 | 0.02% | 0.003% |
| 63 | 8.868 | 2415 | 2419 | 2421 | rBV2 | 199 | 170 | 0.02% | 0.002% |
| 64 | 8.881 | 2421 | 2423 | 2430 | rVB2 | 224 | 176 | 0.02% | 0.002% |
| 65 | 8.974 | 2448 | 2452 | 2455 | rBV2 | 253 | 215 | 0.02% | 0.003% |
| 66 | 9.074 | 2469 | 2483 | 2506 | rBV | 468685 | 812487 | 87.90% | 10.593% |
| 67 | 9.231 | 2527 | 2532 | 2535 | rBV3 | 376 | 419 | 0.05% | 0.005% |
| 68 | 9.280 | 2545 | 2547 | 2550 | rVB2 | 330 | 217 | 0.02% | 0.003% |
| 69 | 9.360 | 2568 | 2572 | 2575 | rBV2 | 591 | 454 | 0.05% | 0.006% |
| 70 | 9.434 | 2590 | 2595 | 2596 | rBV | 240 | 213 | 0.02% | 0.003% |
| 71 | 9.588 | 2640 | 2643 | 2647 | rVB | 228 | 170 | 0.02% | 0.002% |

LSC Area Percent Report

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Acq On : 25 Jul 2019 10:32
Operator : JC/SP
Sample : K3976-07
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0CC7

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\SOMULM071219WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 9.759 | 2692 | 2696 | 2698 | rBV | 454 | 264 | 0.03% | 0.003% |
| 73 | 9.887 | 2730 | 2736 | 2741 | rBV | 238 | 288 | 0.03% | 0.004% |
| 74 | 10.251 | 2845 | 2849 | 2851 | rBV2 | 300 | 234 | 0.03% | 0.003% |
| 75 | 10.350 | 2877 | 2880 | 2884 | rBV | 218 | 178 | 0.02% | 0.002% |
| 76 | 10.415 | 2888 | 2900 | 2919 | rBV | 327547 | 525762 | 56.88% | 6.855% |
| 77 | 10.595 | 2943 | 2956 | 2968 | rBV3 | 9050 | 15819 | 1.71% | 0.206% |
| 78 | 10.707 | 2988 | 2991 | 2996 | rBV2 | 275 | 266 | 0.03% | 0.003% |
| 79 | 10.823 | 3024 | 3027 | 3030 | rBV | 221 | 165 | 0.02% | 0.002% |
| 80 | 10.945 | 3061 | 3065 | 3071 | rBV2 | 324 | 487 | 0.05% | 0.006% |
| 81 | 11.132 | 3117 | 3123 | 3124 | rBV2 | 210 | 223 | 0.02% | 0.003% |
| 82 | 11.148 | 3124 | 3128 | 3133 | rVV5 | 501 | 471 | 0.05% | 0.006% |
| 83 | 11.189 | 3137 | 3141 | 3146 | rBV2 | 271 | 267 | 0.03% | 0.003% |
| 84 | 11.244 | 3155 | 3158 | 3165 | rVB2 | 318 | 373 | 0.04% | 0.005% |
| 85 | 11.408 | 3203 | 3209 | 3215 | rBV5 | 1292 | 1714 | 0.19% | 0.022% |
| 86 | 11.469 | 3215 | 3228 | 3248 | rBV | 439587 | 702954 | 76.05% | 9.165% |
| 87 | 11.749 | 3313 | 3315 | 3320 | rVB2 | 343 | 211 | 0.02% | 0.003% |
| 88 | 11.775 | 3320 | 3323 | 3329 | rBV3 | 580 | 583 | 0.06% | 0.008% |
| 89 | 11.845 | 3331 | 3345 | 3365 | rBV | 407693 | 666348 | 72.09% | 8.688% |
| 90 | 12.038 | 3402 | 3405 | 3407 | rBV3 | 314 | 249 | 0.03% | 0.003% |
| 91 | 12.180 | 3447 | 3449 | 3452 | rBV2 | 291 | 164 | 0.02% | 0.002% |
| 92 | 12.363 | 3503 | 3506 | 3507 | rBV2 | 350 | 232 | 0.03% | 0.003% |
| 93 | 12.398 | 3514 | 3517 | 3522 | rBV2 | 352 | 344 | 0.04% | 0.004% |
| 94 | 12.460 | 3530 | 3536 | 3537 | rBV2 | 800 | 683 | 0.07% | 0.009% |
| 95 | 12.643 | 3590 | 3593 | 3596 | rBV | 376 | 252 | 0.03% | 0.003% |
| 96 | 12.832 | 3649 | 3652 | 3654 | rBV2 | 273 | 164 | 0.02% | 0.002% |
| 97 | 12.932 | 3680 | 3683 | 3688 | rBV2 | 338 | 283 | 0.03% | 0.004% |
| 98 | 13.373 | 3818 | 3820 | 3824 | rBV3 | 306 | 175 | 0.02% | 0.002% |
| 99 | 13.688 | 3914 | 3918 | 3919 | rBV2 | 346 | 246 | 0.03% | 0.003% |
| 100 | 13.984 | 4007 | 4010 | 4013 | rBV3 | 498 | 331 | 0.04% | 0.004% |

Sum of corrected areas: 7669780

LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072519\
Data File : VU033398.D
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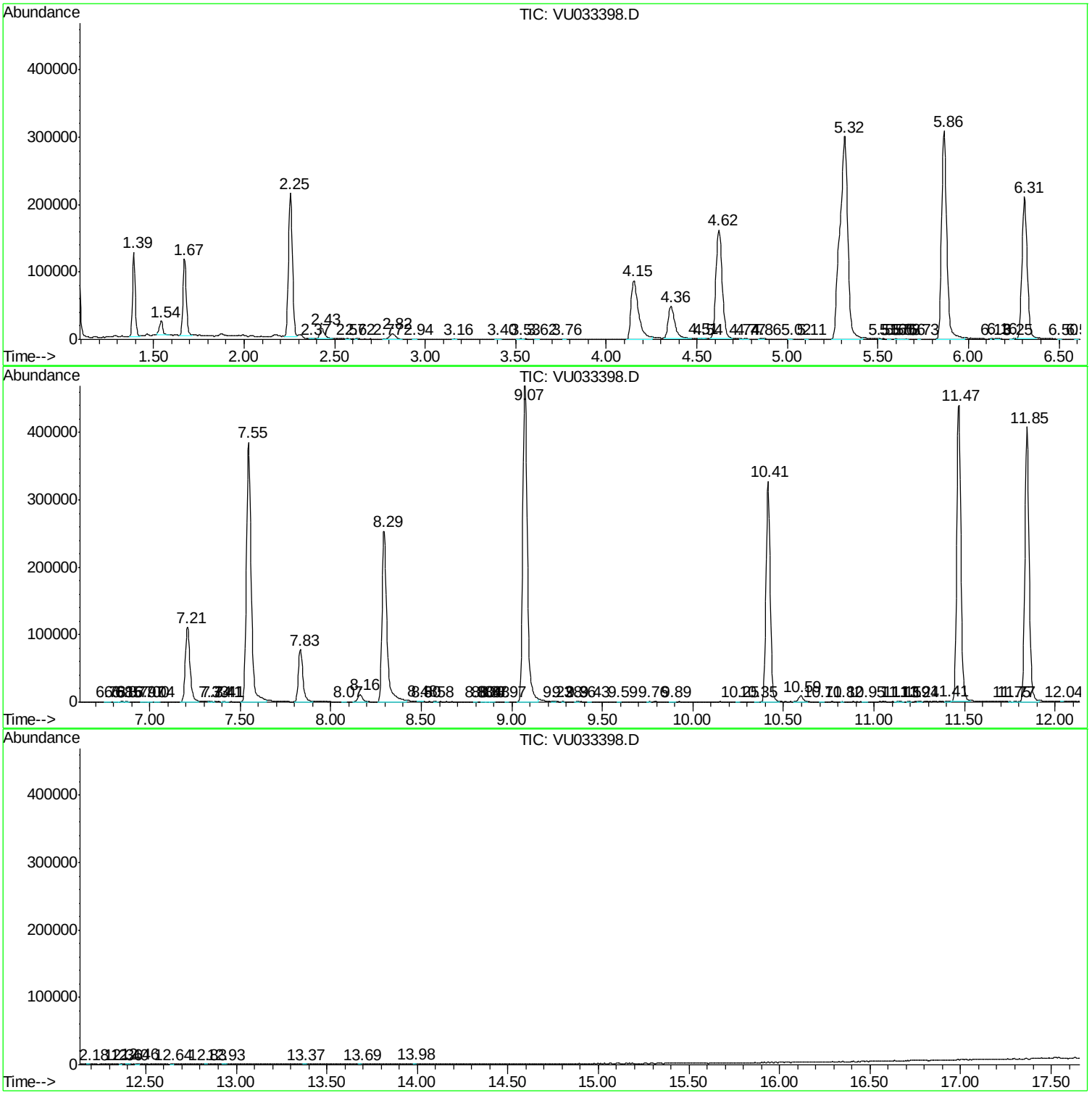
Sample : K3976-07
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0CC7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.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\VU072519\
Data File : VU033398.D
Acq On : 25 Jul 2019 10:32
Operator : JC/SP
Sample : K3976-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0CC7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

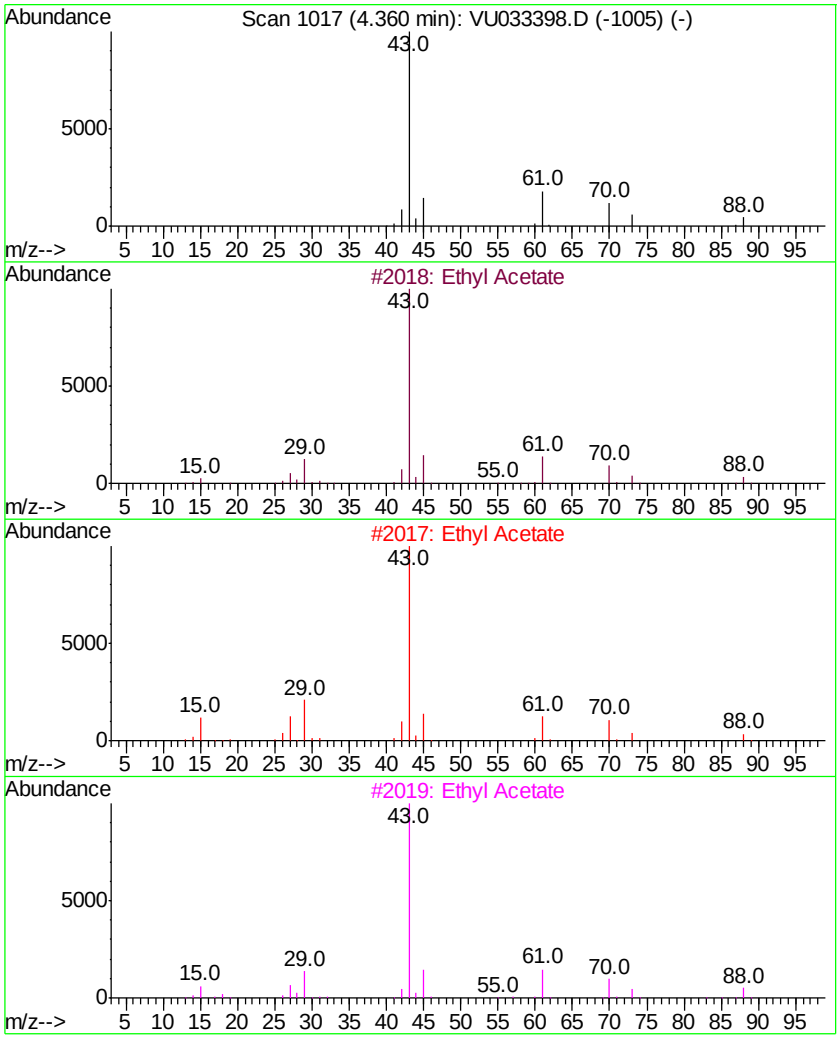
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

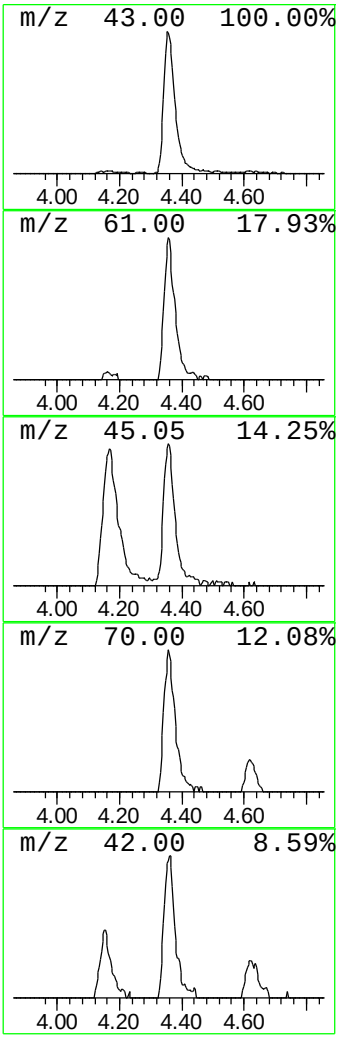
**********

Peak Number 1 Ethyl Acetate Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.36 | 9.69 ug/L | 120723 | 1,4-Difluorobenzene | 5.86 |

| 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 | 83 |
| 5 | CH3C(O)CH2CH2OH | 88 | C4H8O2 | 000590-90-9 | 9 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU072519\
Data File : VU033398.D
Acq On : 25 Jul 2019 10:32
Operator : JC/SP
Sample : K3976-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0CC7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.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 | 4.36 | 9.7 | ug/L | 120723 | 1 | 5.86 | 622615 | 50.0 |