LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032419\
Data File : VU030364.D
Acq On : 24 Mar 2019 12:40
Operator : JC/SP
Sample : K2070-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0974

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\SOMULM032319WMA.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 | 35 | rVB | 16426 | 14262 | 0.03% | 0.025% |
| 2 | 1.399 | 89 | 96 | 107 | rVB | 224703 | 222974 | 0.50% | 0.391% |
| 3 | 1.675 | 175 | 182 | 200 | rVB | 166741 | 221059 | 0.49% | 0.388% |
| 4 | 2.270 | 356 | 367 | 378 | rBV | 346962 | 527203 | 1.18% | 0.925% |
| 5 | 2.325 | 378 | 384 | 397 | rVB | 31889 | 52238 | 0.12% | 0.092% |
| 6 | 2.466 | 405 | 428 | 522 | rBV2 | 21374669 | 44692196 | 100.00% | 78.438% |
| 7 | 3.437 | 726 | 730 | 733 | rBV | 1152 | 1051 | 0.00% | 0.002% |
| 8 | 3.502 | 746 | 750 | 753 | rBV | 1678 | 1297 | 0.00% | 0.002% |
| 9 | 3.601 | 778 | 781 | 785 | rBV2 | 1242 | 1313 | 0.00% | 0.002% |
| 10 | 3.759 | 825 | 830 | 834 | rBV | 2172 | 2244 | 0.01% | 0.004% |
| 11 | 3.900 | 871 | 874 | 877 | rBV | 1731 | 1322 | 0.00% | 0.002% |
| 12 | 3.936 | 881 | 885 | 889 | rVV | 3083 | 2801 | 0.01% | 0.005% |
| 13 | 3.958 | 889 | 892 | 896 | rVV | 1882 | 1722 | 0.00% | 0.003% |
| 14 | 3.984 | 896 | 900 | 904 | rVB | 1722 | 1404 | 0.00% | 0.002% |
| 15 | 4.010 | 906 | 908 | 912 | rVB | 1243 | 951 | 0.00% | 0.002% |
| 16 | 4.045 | 915 | 919 | 922 | rBV | 2388 | 1932 | 0.00% | 0.003% |
| 17 | 4.067 | 922 | 926 | 930 | rBV | 1433 | 1332 | 0.00% | 0.002% |
| 18 | 4.177 | 947 | 960 | 982 | rBV | 165865 | 432327 | 0.97% | 0.759% |
| 19 | 4.389 | 1016 | 1026 | 1042 | rBV2 | 19713 | 48899 | 0.11% | 0.086% |
| 20 | 4.643 | 1089 | 1105 | 1131 | rBV | 258840 | 616553 | 1.38% | 1.082% |
| 21 | 4.868 | 1170 | 1175 | 1177 | rBV | 1373 | 1299 | 0.00% | 0.002% |
| 22 | 4.926 | 1189 | 1193 | 1197 | rBV | 1547 | 1258 | 0.00% | 0.002% |
| 23 | 4.955 | 1197 | 1202 | 1206 | rBV2 | 1466 | 1591 | 0.00% | 0.003% |
| 24 | 4.981 | 1208 | 1210 | 1215 | rVB | 1387 | 993 | 0.00% | 0.002% |
| 25 | 5.045 | 1224 | 1230 | 1232 | rBV | 1333 | 1249 | 0.00% | 0.002% |
| 26 | 5.154 | 1260 | 1264 | 1267 | rVV | 1467 | 957 | 0.00% | 0.002% |
| 27 | 5.199 | 1274 | 1278 | 1283 | rBV | 1164 | 1169 | 0.00% | 0.002% |
| 28 | 5.338 | 1294 | 1321 | 1350 | rBV2 | 537148 | 1609063 | 3.60% | 2.824% |
| 29 | 5.569 | 1388 | 1393 | 1396 | rBV | 1809 | 1745 | 0.00% | 0.003% |
| 30 | 5.704 | 1432 | 1435 | 1440 | rVB2 | 1492 | 1063 | 0.00% | 0.002% |
| 31 | 5.752 | 1446 | 1450 | 1454 | rVB | 2132 | 1792 | 0.00% | 0.003% |
| 32 | 5.784 | 1454 | 1460 | 1464 | rBV | 1800 | 1986 | 0.00% | 0.003% |
| 33 | 5.884 | 1478 | 1491 | 1521 | rBV | 477076 | 969488 | 2.17% | 1.702% |
| 34 | 6.080 | 1549 | 1552 | 1554 | rBV | 1463 | 1112 | 0.00% | 0.002% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032419\
Data File : VU030364.D
Acq On : 24 Mar 2019 12:40
Operator : JC/SP
Sample : K2070-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0974

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\SOMULM032319WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 6.170 | 1576 | 1580 | 1585 | rBV | 1639 | 1448 | 0.00% | 0.003% |
| 36 | 6.193 | 1585 | 1587 | 1594 | rVB | 1135 | 1093 | 0.00% | 0.002% |
| 37 | 6.238 | 1598 | 1601 | 1604 | rBV | 1658 | 1207 | 0.00% | 0.002% |
| 38 | 6.328 | 1614 | 1629 | 1647 | rBV | 360200 | 732321 | 1.64% | 1.285% |
| 39 | 6.511 | 1684 | 1686 | 1693 | rVB | 1379 | 1176 | 0.00% | 0.002% |
| 40 | 6.563 | 1700 | 1702 | 1706 | rVB | 1410 | 1009 | 0.00% | 0.002% |
| 41 | 6.588 | 1706 | 1710 | 1716 | rBV2 | 1441 | 1640 | 0.00% | 0.003% |
| 42 | 6.633 | 1716 | 1724 | 1728 | rBV | 1667 | 1887 | 0.00% | 0.003% |
| 43 | 6.720 | 1748 | 1751 | 1754 | rVB | 1957 | 1264 | 0.00% | 0.002% |
| 44 | 6.784 | 1766 | 1771 | 1775 | rVB2 | 1628 | 1785 | 0.00% | 0.003% |
| 45 | 6.807 | 1775 | 1778 | 1780 | rBV | 1937 | 1391 | 0.00% | 0.002% |
| 46 | 6.891 | 1800 | 1804 | 1806 | rBV | 1644 | 1235 | 0.00% | 0.002% |
| 47 | 7.006 | 1837 | 1840 | 1846 | rBV | 1118 | 1268 | 0.00% | 0.002% |
| 48 | 7.035 | 1847 | 1849 | 1852 | rVB | 1742 | 1018 | 0.00% | 0.002% |
| 49 | 7.074 | 1856 | 1861 | 1866 | rBV | 1979 | 1848 | 0.00% | 0.003% |
| 50 | 7.138 | 1875 | 1881 | 1885 | rVB | 2220 | 2449 | 0.01% | 0.004% |
| 51 | 7.225 | 1896 | 1908 | 1929 | rBV | 183707 | 340370 | 0.76% | 0.597% |
| 52 | 7.392 | 1951 | 1960 | 1967 | rBV4 | 2222 | 4220 | 0.01% | 0.007% |
| 53 | 7.563 | 2000 | 2013 | 2034 | rBV | 668678 | 1209463 | 2.71% | 2.123% |
| 54 | 7.849 | 2091 | 2102 | 2122 | rBV | 126570 | 229992 | 0.51% | 0.404% |
| 55 | 8.116 | 2182 | 2185 | 2189 | rBV | 1705 | 1327 | 0.00% | 0.002% |
| 56 | 8.138 | 2189 | 2192 | 2195 | rVB | 1412 | 916 | 0.00% | 0.002% |
| 57 | 8.308 | 2234 | 2245 | 2280 | rBV | 528587 | 971075 | 2.17% | 1.704% |
| 58 | 8.743 | 2377 | 2380 | 2381 | rBV | 1588 | 912 | 0.00% | 0.002% |
| 59 | 9.087 | 2475 | 2487 | 2512 | rBV | 679129 | 1182496 | 2.65% | 2.075% |
| 60 | 9.379 | 2572 | 2578 | 2581 | rBV3 | 2086 | 2704 | 0.01% | 0.005% |
| 61 | 9.566 | 2632 | 2636 | 2638 | rBV | 1340 | 1219 | 0.00% | 0.002% |
| 62 | 9.601 | 2643 | 2647 | 2650 | rVV | 2003 | 1389 | 0.00% | 0.002% |
| 63 | 10.096 | 2798 | 2801 | 2805 | rVB | 1236 | 919 | 0.00% | 0.002% |
| 64 | 10.132 | 2809 | 2812 | 2814 | rBV | 1467 | 1071 | 0.00% | 0.002% |
| 65 | 10.231 | 2838 | 2843 | 2844 | rBV | 1746 | 1317 | 0.00% | 0.002% |
| 66 | 10.363 | 2881 | 2884 | 2888 | rBV | 1219 | 1136 | 0.00% | 0.002% |
| 67 | 10.427 | 2892 | 2904 | 2925 | rVV | 473464 | 779687 | 1.74% | 1.368% |
| 68 | 10.540 | 2936 | 2939 | 2944 | rBV | 1111 | 1006 | 0.00% | 0.002% |
| 69 | 10.566 | 2944 | 2947 | 2949 | rBV | 1389 | 1134 | 0.00% | 0.002% |
| 70 | 10.768 | 3001 | 3010 | 3014 | rBV | 1708 | 3251 | 0.01% | 0.006% |
| 71 | 11.135 | 3120 | 3124 | 3126 | rBV | 1991 | 1705 | 0.00% | 0.003% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032419\
Data File : VU030364.D
Acq On : 24 Mar 2019 12:40
Operator : JC/SP
Sample : K2070-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0974

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\SOMULM032319WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.247 | 3154 | 3159 | 3162 | rVB | 1480 | 1413 | 0.00% | 0.002% |
| 73 | 11.270 | 3162 | 3166 | 3167 | rBV | 1534 | 1006 | 0.00% | 0.002% |
| 74 | 11.328 | 3181 | 3184 | 3188 | rVB | 1484 | 1186 | 0.00% | 0.002% |
| 75 | 11.405 | 3204 | 3208 | 3209 | rBV | 1695 | 1337 | 0.00% | 0.002% |
| 76 | 11.482 | 3220 | 3232 | 3254 | rBV | 598365 | 984526 | 2.20% | 1.728% |
| 77 | 11.752 | 3312 | 3316 | 3317 | rBV | 4295 | 3068 | 0.01% | 0.005% |
| 78 | 11.858 | 3337 | 3349 | 3373 | rBV | 600088 | 1007484 | 2.25% | 1.768% |
| 79 | 12.431 | 3524 | 3527 | 3531 | rBV | 1322 | 956 | 0.00% | 0.002% |
| 80 | 12.588 | 3573 | 3576 | 3578 | rBV | 1526 | 1101 | 0.00% | 0.002% |
| 81 | 12.691 | 3605 | 3608 | 3613 | rBV2 | 1686 | 1482 | 0.00% | 0.003% |
| 82 | 12.717 | 3613 | 3616 | 3621 | rBV2 | 1563 | 1533 | 0.00% | 0.003% |
| 83 | 12.971 | 3691 | 3695 | 3697 | rBV | 1684 | 1112 | 0.00% | 0.002% |
| 84 | 13.048 | 3715 | 3719 | 3722 | rBV | 1382 | 1232 | 0.00% | 0.002% |
| 85 | 13.511 | 3856 | 3863 | 3869 | rBV3 | 5933 | 8710 | 0.02% | 0.015% |
| 86 | 13.794 | 3942 | 3951 | 3959 | rBV | 2721 | 4761 | 0.01% | 0.008% |
| 87 | 14.032 | 4020 | 4025 | 4032 | rVV2 | 1689 | 2405 | 0.01% | 0.004% |
| 88 | 14.202 | 4076 | 4078 | 4088 | rVB2 | 1458 | 1702 | 0.00% | 0.003% |
| 89 | 14.247 | 4089 | 4092 | 4098 | rVB | 1499 | 1167 | 0.00% | 0.002% |
| 90 | 14.774 | 4250 | 4256 | 4259 | rBV2 | 2463 | 2272 | 0.01% | 0.004% |
| 91 | 14.938 | 4304 | 4307 | 4311 | rBV2 | 1640 | 1419 | 0.00% | 0.002% |
| 92 | 15.025 | 4330 | 4334 | 4335 | rBV | 1421 | 1060 | 0.00% | 0.002% |
| 93 | 15.096 | 4350 | 4356 | 4360 | rBV2 | 1275 | 1429 | 0.00% | 0.003% |
| 94 | 15.218 | 4389 | 4394 | 4396 | rBV2 | 1468 | 1383 | 0.00% | 0.002% |
| 95 | 15.453 | 4463 | 4467 | 4470 | rBV2 | 2408 | 2072 | 0.00% | 0.004% |
| 96 | 15.633 | 4516 | 4523 | 4526 | rBV3 | 1711 | 2658 | 0.01% | 0.005% |
| 97 | 15.678 | 4534 | 4537 | 4542 | rVB2 | 2210 | 1726 | 0.00% | 0.003% |
| 98 | 16.012 | 4638 | 4641 | 4646 | rBV3 | 1849 | 1230 | 0.00% | 0.002% |
| 99 | 16.369 | 4749 | 4752 | 4756 | rBV2 | 1775 | 1801 | 0.00% | 0.003% |
| 100 | 16.668 | 4842 | 4845 | 4852 | rBV3 | 2396 | 3028 | 0.01% | 0.005% |

Sum of corrected areas: 56977452

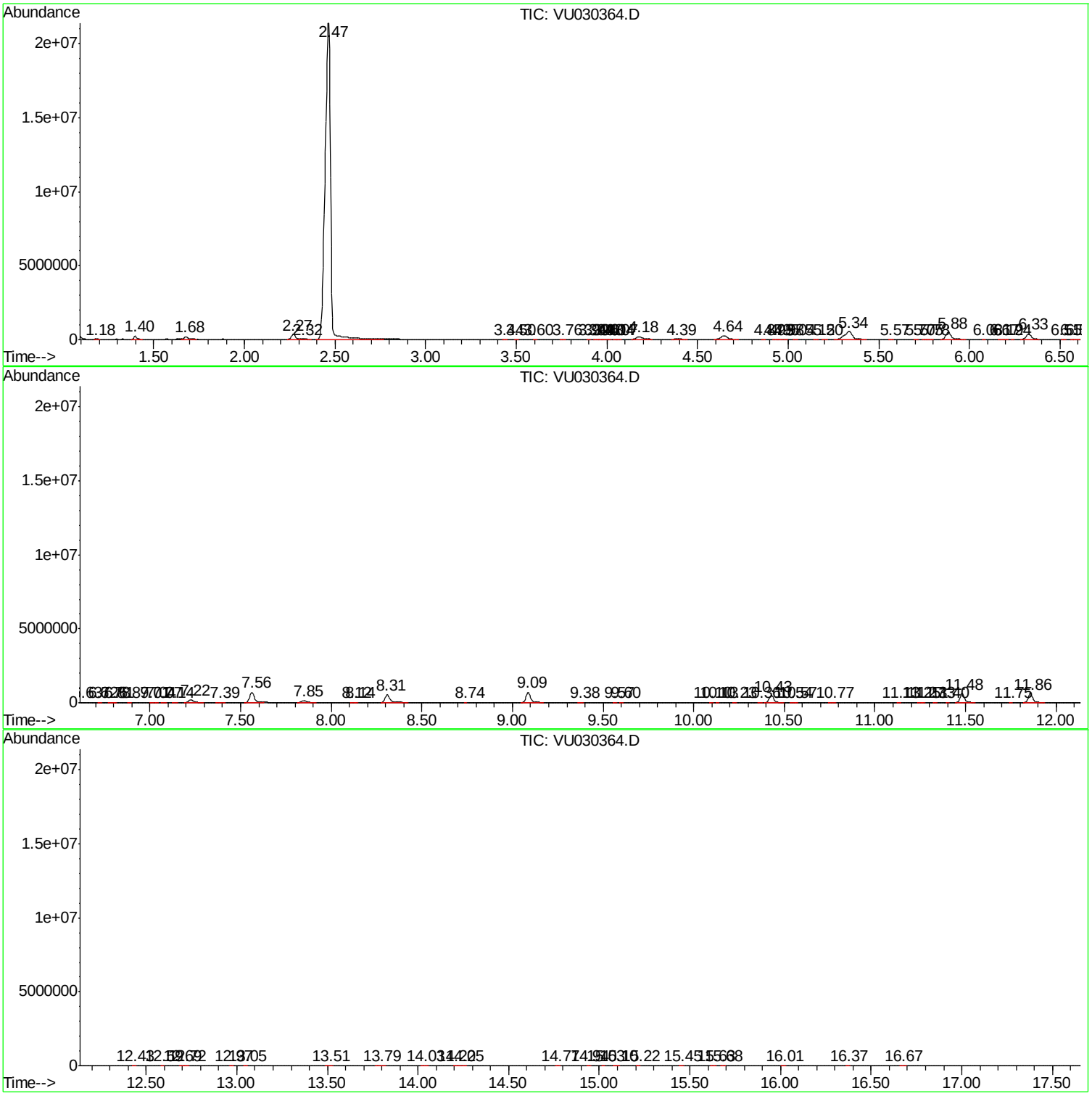
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032419\
Data File : VU030364.D
Acq On : 24 Mar 2019 12:40
Operator : JC/SP
Sample : K2070-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
C0974

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.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\VU032419\
Data File : VU030364.D
Acq On : 24 Mar 2019 12:40
Operator : JC/SP
Sample : K2070-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0974

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

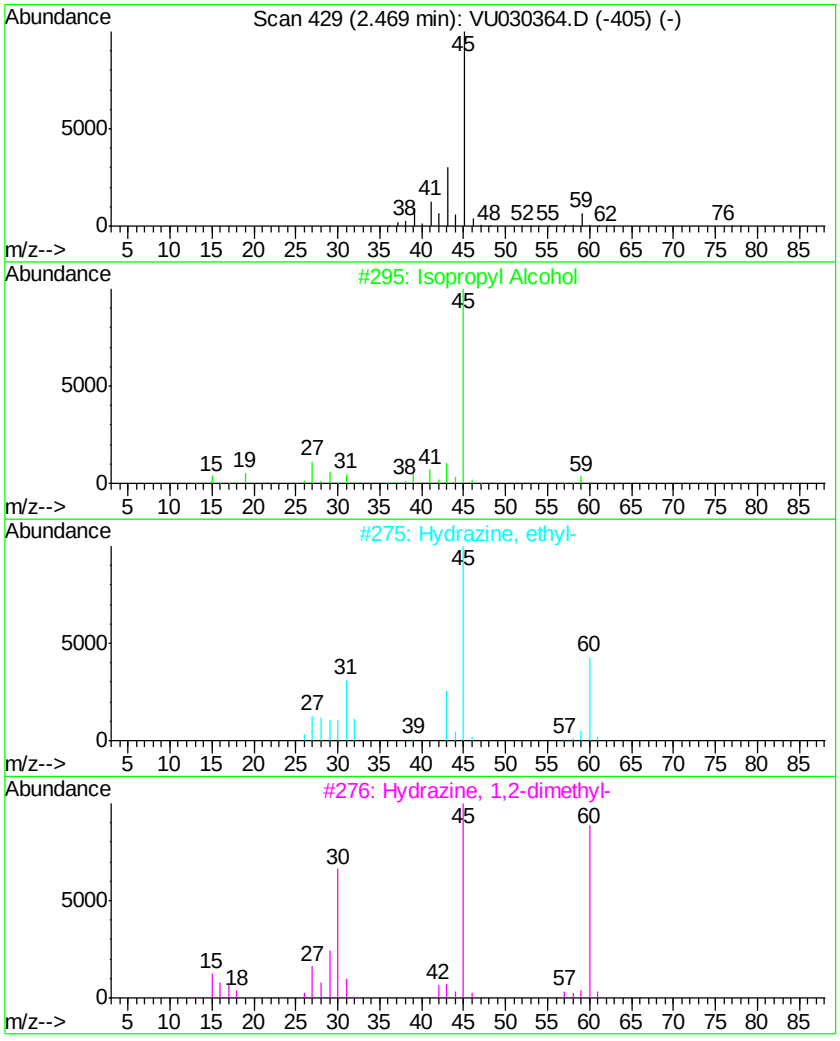
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

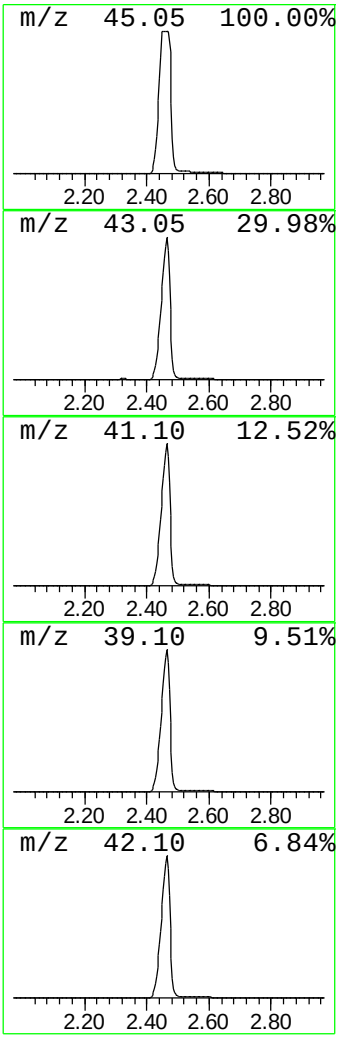
**********

Peak Number 1 Isopropyl Alcohol Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.47 | 2304.94 ug/L | 44692200 | 1,4-Difluorobenzene | 5.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 78 |
| 2 | Hydrazine, ethyl- | 60 | C2H8N2 | 000624-80-6 | 9 |
| 3 | Hydrazine, 1,2-dimethyl- | 60 | C2H8N2 | 000540-73-8 | 9 |
| 4 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 9 |
| 5 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 9 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032419\
Data File : VU030364.D
Acq On : 24 Mar 2019 12:40
Operator : JC/SP
Sample : K2070-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0974

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis

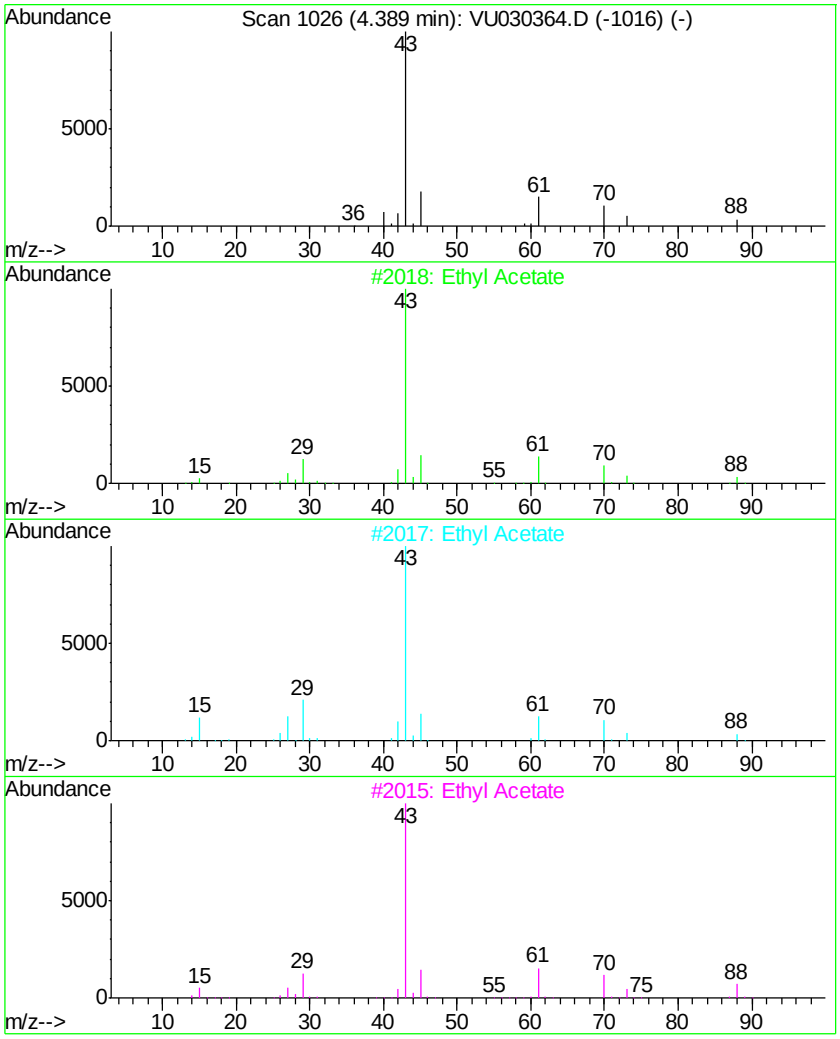
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

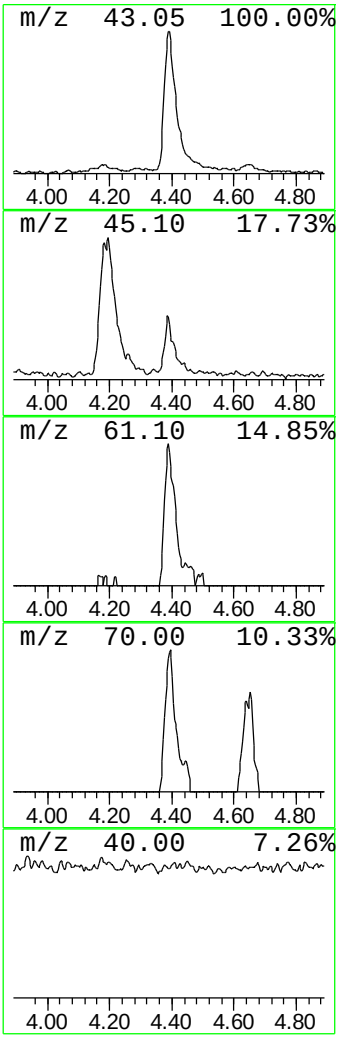
**********

Peak Number 2 Ethyl Acetate Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.39 | 2.52 ug/L | 48899 | 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 | 83 |
| 3 | Ethyl Acetate | 88 | C4H8O2 | 000141-78-6 | 78 |
| 4 | Ethyl Acetate | 88 | C4H8O2 | 000141-78-6 | 78 |
| 5 | (3-Methyl-oxiran-2-yl)-methanol | 88 | C4H8O2 | 1000194-22-9 | 9 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032419\
Data File : VU030364.D
Acq On : 24 Mar 2019 12:40
Operator : JC/SP
Sample : K2070-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** C0974

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.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 |
| Isopropyl Alcohol | 2.47 | 2304.9 | ug/L | 44692200 | 1 | 5.88 | 969488 | 50.0 |
| Ethyl Acetate | 4.39 | 2.5 | ug/L | 48899 | 1 | 5.88 | 969488 | 50.0 |