LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031619\
Data File : VU030102.D
Acq On : 15 Mar 2019 11:45
Operator : JC/SP
Sample : K1939-01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BF1F1

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\SOMULM031319WMA.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 | 1.184 | 24 | 29 | 39 | rVB2 | 10458 | 10102 | 0.67% | 0.080% |
| 2 | 1.399 | 89 | 96 | 112 | rBV | 157431 | 160562 | 10.73% | 1.274% |
| 3 | 1.679 | 176 | 183 | 198 | rBV | 131679 | 169514 | 11.32% | 1.345% |
| 4 | 2.274 | 357 | 368 | 379 | rBV | 295388 | 449221 | 30.01% | 3.563% |
| 5 | 2.444 | 409 | 421 | 441 | rBV | 47441 | 88952 | 5.94% | 0.706% |
| 6 | 2.618 | 471 | 475 | 478 | rBV | 772 | 622 | 0.04% | 0.005% |
| 7 | 2.701 | 492 | 501 | 515 | rVB4 | 5102 | 8971 | 0.60% | 0.071% |
| 8 | 2.836 | 530 | 543 | 554 | rBV3 | 3352 | 7270 | 0.49% | 0.058% |
| 9 | 2.949 | 573 | 578 | 580 | rBV | 345 | 269 | 0.02% | 0.002% |
| 10 | 2.981 | 584 | 588 | 591 | rBV3 | 995 | 795 | 0.05% | 0.006% |
| 11 | 3.061 | 610 | 613 | 617 | rVB2 | 633 | 418 | 0.03% | 0.003% |
| 12 | 3.100 | 622 | 625 | 626 | rBV | 389 | 259 | 0.02% | 0.002% |
| 13 | 3.180 | 646 | 650 | 652 | rBV2 | 997 | 880 | 0.06% | 0.007% |
| 14 | 3.280 | 677 | 681 | 685 | rBV2 | 591 | 627 | 0.04% | 0.005% |
| 15 | 3.406 | 718 | 720 | 723 | rBV | 443 | 322 | 0.02% | 0.003% |
| 16 | 3.463 | 735 | 738 | 744 | rVB2 | 342 | 289 | 0.02% | 0.002% |
| 17 | 3.496 | 744 | 748 | 752 | rBV | 365 | 376 | 0.03% | 0.003% |
| 18 | 3.569 | 768 | 771 | 775 | rVB3 | 505 | 386 | 0.03% | 0.003% |
| 19 | 3.598 | 775 | 780 | 783 | rBV2 | 583 | 664 | 0.04% | 0.005% |
| 20 | 3.676 | 799 | 804 | 807 | rVV2 | 381 | 419 | 0.03% | 0.003% |
| 21 | 3.711 | 813 | 815 | 818 | rVB2 | 617 | 363 | 0.02% | 0.003% |
| 22 | 3.750 | 818 | 827 | 829 | rBV2 | 663 | 834 | 0.06% | 0.007% |
| 23 | 3.791 | 834 | 840 | 844 | rBV | 563 | 600 | 0.04% | 0.005% |
| 24 | 3.811 | 844 | 846 | 849 | rBV2 | 563 | 270 | 0.02% | 0.002% |
| 25 | 3.830 | 849 | 852 | 854 | rBV2 | 304 | 232 | 0.02% | 0.002% |
| 26 | 3.891 | 867 | 871 | 877 | rBV2 | 467 | 502 | 0.03% | 0.004% |
| 27 | 3.965 | 892 | 894 | 900 | rVB2 | 543 | 436 | 0.03% | 0.003% |
| 28 | 4.007 | 904 | 907 | 912 | rVB2 | 635 | 557 | 0.04% | 0.004% |
| 29 | 4.071 | 923 | 927 | 930 | rBV2 | 281 | 288 | 0.02% | 0.002% |
| 30 | 4.113 | 937 | 940 | 947 | rBV2 | 383 | 554 | 0.04% | 0.004% |
| 31 | 4.174 | 947 | 959 | 990 | rBV | 157345 | 413856 | 27.65% | 3.283% |
| 32 | 4.470 | 1048 | 1051 | 1053 | rBV3 | 326 | 233 | 0.02% | 0.002% |
| 33 | 4.647 | 1087 | 1106 | 1132 | rBV | 251057 | 602469 | 40.25% | 4.779% |
| 34 | 4.878 | 1172 | 1178 | 1183 | rBV6 | 817 | 1222 | 0.08% | 0.010% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031619\
Data File : VU030102.D
Acq On : 15 Mar 2019 11:45
Operator : JC/SP
Sample : K1939-01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BF1F1

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\SOMULM031319WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 4.955 | 1200 | 1202 | 1205 | rBV | 529 | 303 | 0.02% | 0.002% |
| 36 | 5.068 | 1234 | 1237 | 1242 | rVB | 480 | 313 | 0.02% | 0.002% |
| 37 | 5.235 | 1287 | 1289 | 1293 | rVB3 | 465 | 349 | 0.02% | 0.003% |
| 38 | 5.338 | 1296 | 1321 | 1362 | rBV2 | 501431 | 1496984 | 100.00% | 11.874% |
| 39 | 5.582 | 1393 | 1397 | 1399 | rBV2 | 361 | 248 | 0.02% | 0.002% |
| 40 | 5.630 | 1408 | 1412 | 1416 | rVB | 435 | 415 | 0.03% | 0.003% |
| 41 | 5.669 | 1416 | 1424 | 1427 | rBV4 | 902 | 1173 | 0.08% | 0.009% |
| 42 | 5.798 | 1457 | 1464 | 1466 | rBV | 864 | 826 | 0.06% | 0.007% |
| 43 | 5.885 | 1476 | 1491 | 1519 | rBV | 508776 | 1022481 | 68.30% | 8.110% |
| 44 | 6.068 | 1546 | 1548 | 1551 | rBV2 | 654 | 513 | 0.03% | 0.004% |
| 45 | 6.142 | 1568 | 1571 | 1576 | rBV2 | 616 | 630 | 0.04% | 0.005% |
| 46 | 6.190 | 1581 | 1586 | 1589 | rBV5 | 1254 | 1175 | 0.08% | 0.009% |
| 47 | 6.280 | 1610 | 1614 | 1615 | rBV2 | 523 | 452 | 0.03% | 0.004% |
| 48 | 6.328 | 1615 | 1629 | 1652 | rVV | 332646 | 674735 | 45.07% | 5.352% |
| 49 | 6.521 | 1688 | 1689 | 1693 | rVB2 | 485 | 251 | 0.02% | 0.002% |
| 50 | 6.550 | 1693 | 1698 | 1699 | rBV | 590 | 452 | 0.03% | 0.004% |
| 51 | 6.556 | 1699 | 1700 | 1703 | rVV2 | 562 | 296 | 0.02% | 0.002% |
| 52 | 6.573 | 1703 | 1705 | 1708 | rVB3 | 478 | 237 | 0.02% | 0.002% |
| 53 | 6.595 | 1708 | 1712 | 1715 | rBV2 | 530 | 465 | 0.03% | 0.004% |
| 54 | 6.637 | 1720 | 1725 | 1728 | rBV | 400 | 377 | 0.03% | 0.003% |
| 55 | 6.698 | 1741 | 1744 | 1746 | rBV2 | 342 | 274 | 0.02% | 0.002% |
| 56 | 6.778 | 1764 | 1769 | 1772 | rBV2 | 476 | 531 | 0.04% | 0.004% |
| 57 | 6.875 | 1791 | 1799 | 1802 | rBV4 | 905 | 1130 | 0.08% | 0.009% |
| 58 | 7.026 | 1840 | 1846 | 1848 | rBV | 376 | 378 | 0.03% | 0.003% |
| 59 | 7.106 | 1868 | 1871 | 1876 | rVB | 393 | 333 | 0.02% | 0.003% |
| 60 | 7.225 | 1896 | 1908 | 1929 | rBV | 190194 | 348414 | 23.27% | 2.764% |
| 61 | 7.392 | 1952 | 1960 | 1966 | rBV5 | 1773 | 2471 | 0.17% | 0.020% |
| 62 | 7.463 | 1975 | 1982 | 1983 | rBV4 | 1722 | 1735 | 0.12% | 0.014% |
| 63 | 7.563 | 2000 | 2013 | 2052 | rBV | 674454 | 1227413 | 81.99% | 9.736% |
| 64 | 7.698 | 2053 | 2055 | 2060 | rVB | 1465 | 1101 | 0.07% | 0.009% |
| 65 | 7.849 | 2089 | 2102 | 2128 | rBV | 131524 | 237028 | 15.83% | 1.880% |
| 66 | 7.994 | 2143 | 2147 | 2150 | rBV | 940 | 876 | 0.06% | 0.007% |
| 67 | 8.103 | 2177 | 2181 | 2184 | rBV2 | 706 | 597 | 0.04% | 0.005% |
| 68 | 8.177 | 2191 | 2204 | 2216 | rBV | 47634 | 90135 | 6.02% | 0.715% |
| 69 | 8.309 | 2234 | 2245 | 2277 | rBV | 526364 | 929394 | 62.08% | 7.372% |
| 70 | 8.724 | 2370 | 2374 | 2377 | rBV | 606 | 446 | 0.03% | 0.004% |
| 71 | 8.769 | 2385 | 2388 | 2391 | rBV2 | 377 | 244 | 0.02% | 0.002% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031619\
Data File : VU030102.D
Acq On : 15 Mar 2019 11:45
Operator : JC/SP
Sample : K1939-01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BF1F1

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\SOMULM031319WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 8.820 | 2400 | 2404 | 2406 | rBV2 | 748 | 542 | 0.04% | 0.004% |
| 73 | 8.836 | 2406 | 2409 | 2411 | rVV | 482 | 245 | 0.02% | 0.002% |
| 74 | 8.913 | 2429 | 2433 | 2437 | rBV3 | 873 | 618 | 0.04% | 0.005% |
| 75 | 8.958 | 2442 | 2447 | 2448 | rBV2 | 591 | 500 | 0.03% | 0.004% |
| 76 | 9.087 | 2474 | 2487 | 2525 | rVV | 743787 | 1265322 | 84.52% | 10.036% |
| 77 | 9.251 | 2535 | 2538 | 2539 | rBV | 712 | 452 | 0.03% | 0.004% |
| 78 | 9.383 | 2571 | 2579 | 2582 | rBV3 | 1689 | 1847 | 0.12% | 0.015% |
| 79 | 9.640 | 2656 | 2659 | 2662 | rBV2 | 383 | 291 | 0.02% | 0.002% |
| 80 | 9.711 | 2678 | 2681 | 2684 | rBV2 | 499 | 358 | 0.02% | 0.003% |
| 81 | 9.730 | 2685 | 2687 | 2694 | rVB | 467 | 272 | 0.02% | 0.002% |
| 82 | 9.775 | 2696 | 2701 | 2703 | rBV2 | 1317 | 1373 | 0.09% | 0.011% |
| 83 | 9.894 | 2735 | 2738 | 2743 | rVB | 633 | 455 | 0.03% | 0.004% |
| 84 | 9.958 | 2754 | 2758 | 2765 | rVB3 | 780 | 908 | 0.06% | 0.007% |
| 85 | 9.990 | 2765 | 2768 | 2770 | rBV | 509 | 333 | 0.02% | 0.003% |
| 86 | 10.007 | 2770 | 2773 | 2776 | rBV2 | 437 | 294 | 0.02% | 0.002% |
| 87 | 10.251 | 2845 | 2849 | 2852 | rBV | 613 | 564 | 0.04% | 0.004% |
| 88 | 10.386 | 2887 | 2891 | 2892 | rBV | 757 | 448 | 0.03% | 0.004% |
| 89 | 10.428 | 2892 | 2904 | 2935 | rVB | 542785 | 877345 | 58.61% | 6.959% |
| 90 | 10.534 | 2935 | 2937 | 2942 | rBV2 | 420 | 399 | 0.03% | 0.003% |
| 91 | 10.605 | 2949 | 2959 | 2974 | rVB2 | 23975 | 41891 | 2.80% | 0.332% |
| 92 | 10.659 | 2974 | 2976 | 2979 | rBV | 468 | 278 | 0.02% | 0.002% |
| 93 | 10.878 | 3040 | 3044 | 3052 | rVB4 | 919 | 1072 | 0.07% | 0.009% |
| 94 | 10.929 | 3058 | 3060 | 3067 | rVB2 | 797 | 547 | 0.04% | 0.004% |
| 95 | 11.206 | 3143 | 3146 | 3151 | rVB2 | 648 | 466 | 0.03% | 0.004% |
| 96 | 11.277 | 3165 | 3168 | 3171 | rBV3 | 576 | 438 | 0.03% | 0.003% |
| 97 | 11.418 | 3208 | 3212 | 3219 | rVB5 | 2013 | 2348 | 0.16% | 0.019% |
| 98 | 11.479 | 3219 | 3231 | 3251 | rBV | 767599 | 1233803 | 82.42% | 9.786% |
| 99 | 11.772 | 3320 | 3322 | 3324 | rBV3 | 631 | 390 | 0.03% | 0.003% |
| 100 | 11.855 | 3335 | 3348 | 3377 | rBV | 724851 | 1205120 | 80.50% | 9.559% |

Sum of corrected areas: 12607428

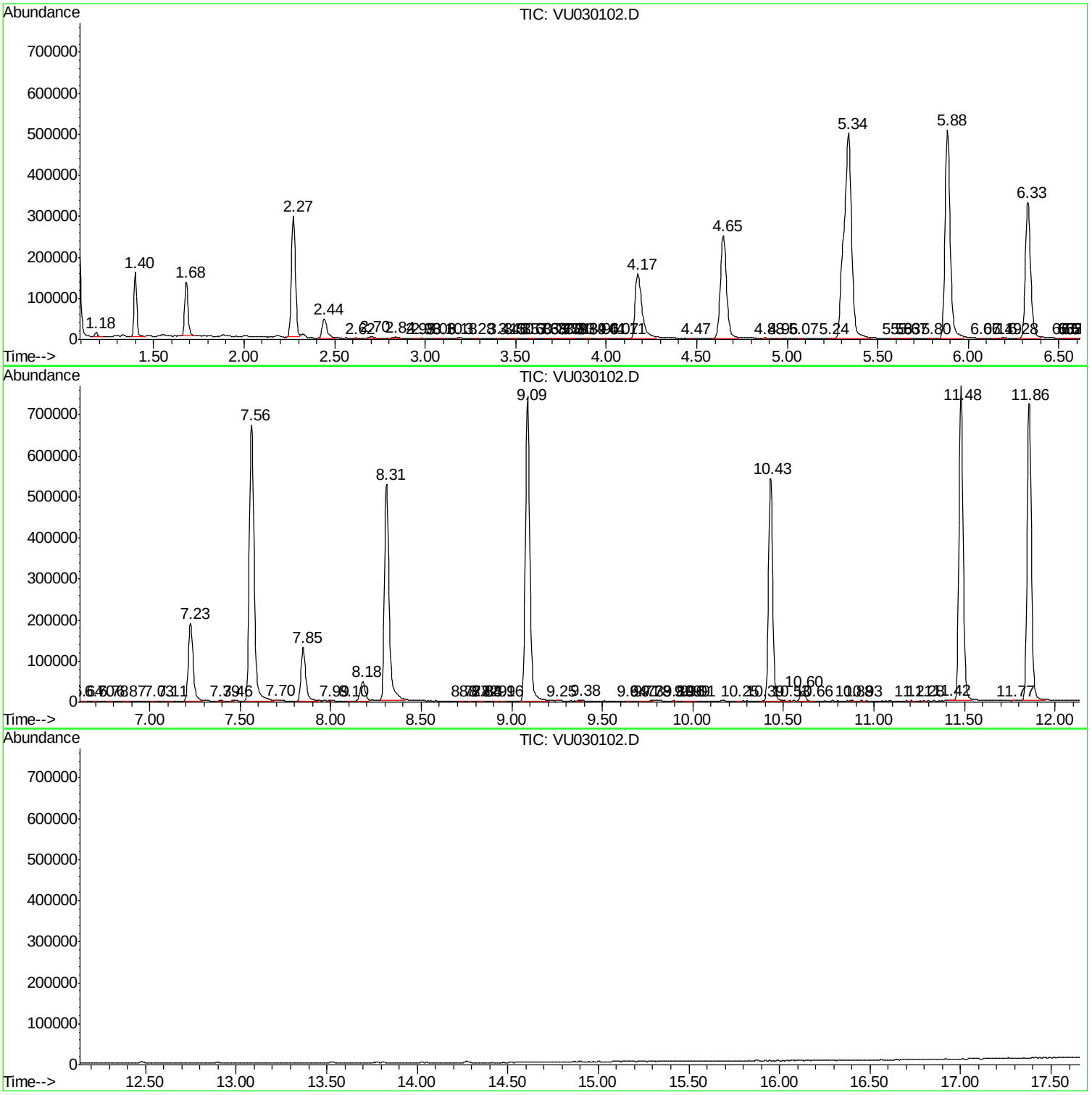
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031619\
Data File : VU030102.D
Acq On : 15 Mar 2019 11:45
Operator : JC/SP
Sample : K1939-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BF1F1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031319WMA.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\VU031619\
Data File : VU030102.D
Acq On : 15 Mar 2019 11:45
Operator : JC/SP
Sample : K1939-01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BF1F1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031319WMA.M
Quant Title : VOC Analysis

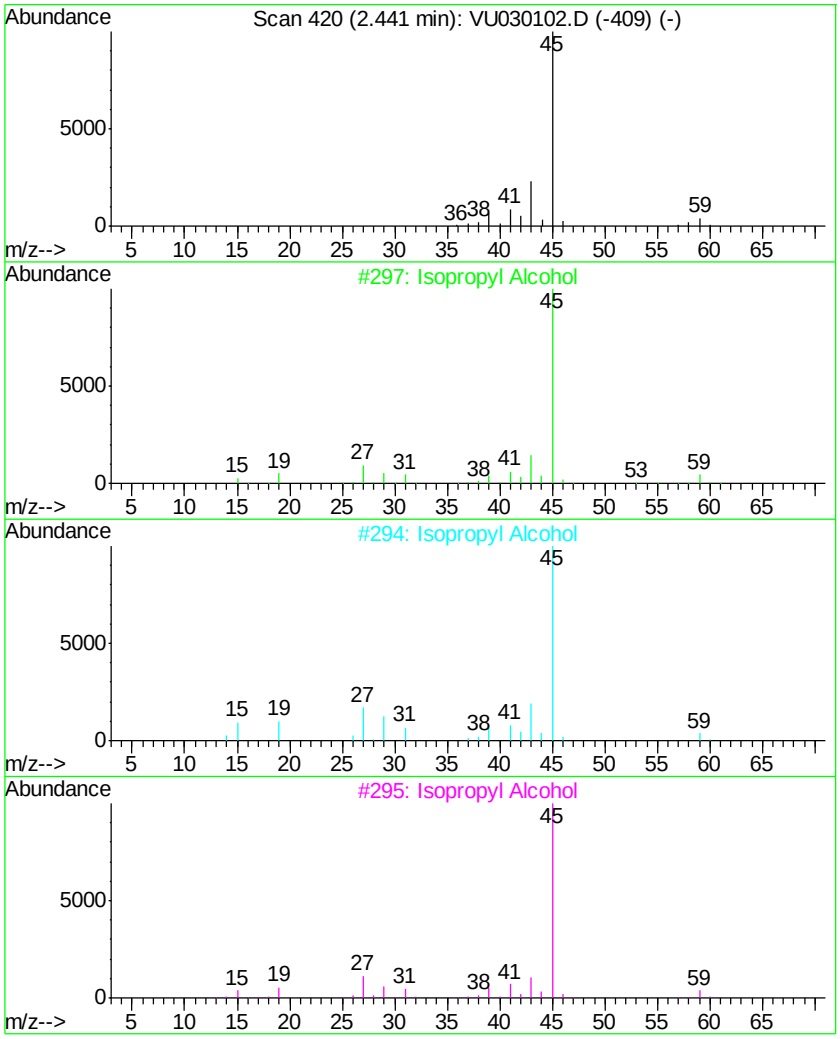
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

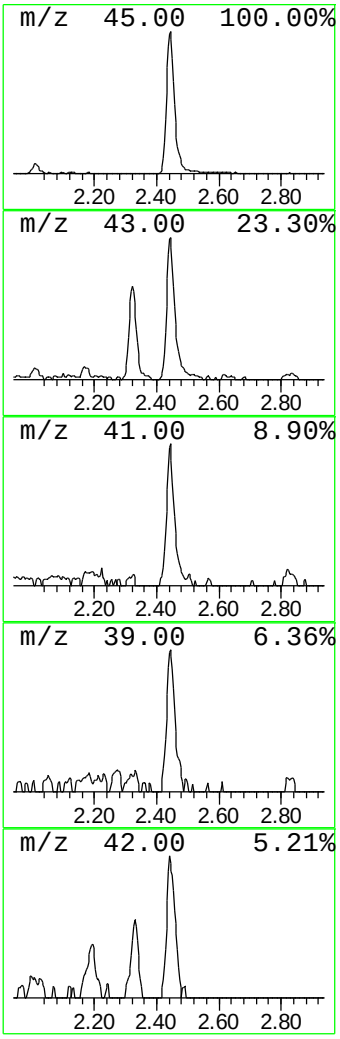
**********

Peak Number 1 Isopropyl Alcohol Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.44 | 4.35 ug/L | 88952 | 1,4-Difluorobenzene | 5.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 86 |
| 2 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 83 |
| 3 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 78 |
| 4 | Hydrazine, 1,2-dimethyl- | 60 | C2H8N2 | 000540-73-8 | 9 |
| 5 | Hydrazine, 1,2-dimethyl- | 60 | C2H8N2 | 000540-73-8 | 9 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031619\
Data File : VU030102.D
Acq On : 15 Mar 2019 11:45
Operator : JC/SP
Sample : K1939-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BF1F1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031319WMA.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 | 2.44 | 4.3 | ug/L | 88952 | 1 | 5.88 | 1022480 | 50.0 |