LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121220\
Data File : VV019566.D
Acq On : 12 Dec 2020 19:17
Operator : SY/MD
Sample : L4928-09
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BG4J4

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_V\METHOD\SOMVLM121020WMA.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 | 1.309 | 61 | 68 | 80 | rVB | 425133 | 428848 | 15.59% | 1.980% |
| 2 | 1.569 | 142 | 149 | 162 | rBV | 342705 | 380412 | 13.83% | 1.756% |
| 3 | 2.113 | 307 | 318 | 349 | rVB | 684490 | 1071151 | 38.94% | 4.945% |
| 4 | 2.534 | 438 | 449 | 465 | rVB2 | 28272 | 54444 | 1.98% | 0.251% |
| 5 | 2.656 | 477 | 487 | 488 | rBV6 | 1299 | 1696 | 0.06% | 0.008% |
| 6 | 2.765 | 509 | 521 | 541 | rVB2 | 49107 | 101117 | 3.68% | 0.467% |
| 7 | 2.958 | 575 | 581 | 584 | rBV5 | 903 | 1031 | 0.04% | 0.005% |
| 8 | 3.045 | 593 | 608 | 626 | rBV | 273055 | 544162 | 19.78% | 2.512% |
| 9 | 3.634 | 787 | 791 | 793 | rBV3 | 555 | 466 | 0.02% | 0.002% |
| 10 | 3.662 | 794 | 800 | 801 | rBV4 | 841 | 621 | 0.02% | 0.003% |
| 11 | 3.691 | 805 | 809 | 813 | rVV5 | 1237 | 1329 | 0.05% | 0.006% |
| 12 | 3.769 | 816 | 833 | 859 | rVB | 248496 | 624514 | 22.70% | 2.883% |
| 13 | 3.888 | 859 | 870 | 912 | rBV | 155644 | 459911 | 16.72% | 2.123% |
| 14 | 4.354 | 997 | 1015 | 1046 | rBV | 434250 | 1067044 | 38.79% | 4.926% |
| 15 | 4.543 | 1071 | 1074 | 1080 | rVB4 | 1127 | 861 | 0.03% | 0.004% |
| 16 | 4.633 | 1099 | 1102 | 1105 | rBV3 | 708 | 455 | 0.02% | 0.002% |
| 17 | 4.662 | 1105 | 1111 | 1112 | rBV2 | 1546 | 1530 | 0.06% | 0.007% |
| 18 | 4.881 | 1176 | 1179 | 1181 | rBV3 | 850 | 581 | 0.02% | 0.003% |
| 19 | 5.051 | 1208 | 1232 | 1263 | rBV2 | 1065866 | 2750914 | 100.00% | 12.699% |
| 20 | 5.302 | 1306 | 1310 | 1314 | rBV5 | 913 | 782 | 0.03% | 0.004% |
| 21 | 5.328 | 1314 | 1318 | 1321 | rBV5 | 1334 | 1058 | 0.04% | 0.005% |
| 22 | 5.421 | 1344 | 1347 | 1350 | rBV2 | 754 | 479 | 0.02% | 0.002% |
| 23 | 5.489 | 1363 | 1368 | 1370 | rBV4 | 1010 | 905 | 0.03% | 0.004% |
| 24 | 5.621 | 1396 | 1409 | 1438 | rBV | 793532 | 1583345 | 57.56% | 7.309% |
| 25 | 5.855 | 1479 | 1482 | 1487 | rVB4 | 957 | 705 | 0.03% | 0.003% |
| 26 | 5.913 | 1487 | 1500 | 1514 | rBV3 | 14500 | 30889 | 1.12% | 0.143% |
| 27 | 6.074 | 1534 | 1550 | 1579 | rBV | 614560 | 1232975 | 44.82% | 5.692% |
| 28 | 6.305 | 1619 | 1622 | 1624 | rBV2 | 869 | 577 | 0.02% | 0.003% |
| 29 | 6.453 | 1665 | 1668 | 1671 | rBV3 | 733 | 542 | 0.02% | 0.003% |
| 30 | 6.479 | 1674 | 1676 | 1681 | rVB3 | 641 | 539 | 0.02% | 0.002% |
| 31 | 6.521 | 1681 | 1689 | 1692 | rBV4 | 1276 | 1781 | 0.06% | 0.008% |
| 32 | 6.633 | 1719 | 1724 | 1726 | rBV5 | 1377 | 1402 | 0.05% | 0.006% |
| 33 | 6.807 | 1774 | 1778 | 1782 | rBV3 | 776 | 700 | 0.03% | 0.003% |
| 34 | 6.987 | 1822 | 1834 | 1868 | rBV | 364058 | 667122 | 24.25% | 3.080% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121220\
Data File : VV019566.D
Acq On : 12 Dec 2020 19:17
Operator : SY/MD
Sample : L4928-09
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BG4J4

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_V\METHOD\SOMVLM121020WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 7.318 | 1924 | 1937 | 1967 | rBV | 1285332 | 2207801 | 80.26% | 10.191% |
| 36 | 7.624 | 2020 | 2032 | 2069 | rVV | 258842 | 451097 | 16.40% | 2.082% |
| 37 | 7.765 | 2074 | 2076 | 2082 | rVB5 | 845 | 739 | 0.03% | 0.003% |
| 38 | 7.820 | 2091 | 2093 | 2098 | rVB4 | 797 | 641 | 0.02% | 0.003% |
| 39 | 7.942 | 2126 | 2131 | 2135 | rVV6 | 1980 | 2517 | 0.09% | 0.012% |
| 40 | 7.981 | 2135 | 2143 | 2154 | rVB4 | 14120 | 25112 | 0.91% | 0.116% |
| 41 | 8.090 | 2165 | 2177 | 2209 | rBV | 602942 | 1061759 | 38.60% | 4.901% |
| 42 | 8.415 | 2275 | 2278 | 2283 | rVB3 | 760 | 613 | 0.02% | 0.003% |
| 43 | 8.537 | 2311 | 2316 | 2318 | rBV3 | 602 | 474 | 0.02% | 0.002% |
| 44 | 8.579 | 2323 | 2329 | 2333 | rBV4 | 921 | 1142 | 0.04% | 0.005% |
| 45 | 8.614 | 2337 | 2340 | 2343 | rBV3 | 719 | 519 | 0.02% | 0.002% |
| 46 | 8.646 | 2347 | 2350 | 2355 | rBV7 | 606 | 496 | 0.02% | 0.002% |
| 47 | 8.759 | 2382 | 2385 | 2390 | rVB4 | 706 | 706 | 0.03% | 0.003% |
| 48 | 8.855 | 2401 | 2415 | 2444 | rBV | 1177400 | 1906519 | 69.30% | 8.801% |
| 49 | 9.022 | 2464 | 2467 | 2472 | rBV3 | 957 | 735 | 0.03% | 0.003% |
| 50 | 9.067 | 2478 | 2481 | 2484 | rBV4 | 1201 | 1048 | 0.04% | 0.005% |
| 51 | 9.109 | 2488 | 2494 | 2496 | rBV4 | 1419 | 1395 | 0.05% | 0.006% |
| 52 | 9.309 | 2551 | 2556 | 2561 | rBV5 | 883 | 779 | 0.03% | 0.004% |
| 53 | 9.479 | 2605 | 2609 | 2614 | rVB5 | 483 | 554 | 0.02% | 0.003% |
| 54 | 9.556 | 2623 | 2633 | 2634 | rBV5 | 790 | 774 | 0.03% | 0.004% |
| 55 | 9.820 | 2706 | 2715 | 2725 | rBV5 | 1680 | 3543 | 0.13% | 0.016% |
| 56 | 10.009 | 2770 | 2774 | 2778 | rBV4 | 565 | 475 | 0.02% | 0.002% |
| 57 | 10.218 | 2827 | 2839 | 2857 | rBV | 771672 | 1195586 | 43.46% | 5.519% |
| 58 | 10.321 | 2867 | 2871 | 2872 | rBV3 | 794 | 518 | 0.02% | 0.002% |
| 59 | 10.379 | 2886 | 2889 | 2890 | rBV3 | 2033 | 1081 | 0.04% | 0.005% |
| 60 | 10.482 | 2918 | 2921 | 2927 | rVB4 | 783 | 637 | 0.02% | 0.003% |
| 61 | 10.527 | 2930 | 2935 | 2936 | rBV3 | 853 | 554 | 0.02% | 0.003% |
| 62 | 10.550 | 2940 | 2942 | 2947 | rVV4 | 769 | 728 | 0.03% | 0.003% |
| 63 | 10.582 | 2947 | 2952 | 2957 | rVB4 | 1071 | 1022 | 0.04% | 0.005% |
| 64 | 10.665 | 2975 | 2978 | 2982 | rVB2 | 909 | 640 | 0.02% | 0.003% |
| 65 | 10.701 | 2987 | 2989 | 2994 | rVV4 | 878 | 610 | 0.02% | 0.003% |
| 66 | 10.952 | 3062 | 3067 | 3068 | rBV3 | 1217 | 874 | 0.03% | 0.004% |
| 67 | 11.045 | 3087 | 3096 | 3103 | rBV8 | 2333 | 4299 | 0.16% | 0.020% |
| 68 | 11.157 | 3128 | 3131 | 3132 | rBV2 | 980 | 510 | 0.02% | 0.002% |
| 69 | 11.251 | 3148 | 3160 | 3182 | rBV | 1196632 | 1821577 | 66.22% | 8.409% |
| 70 | 11.492 | 3230 | 3235 | 3239 | rVB6 | 1118 | 1171 | 0.04% | 0.005% |
| 71 | 11.534 | 3240 | 3248 | 3249 | rBV5 | 1192 | 1316 | 0.05% | 0.006% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121220\
Data File : VV019566.D
Acq On : 12 Dec 2020 19:17
Operator : SY/MD
Sample : L4928-09
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BG4J4

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_V\METHOD\SOMVLM121020WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.627 | 3264 | 3277 | 3302 | rBV | 1238710 | 1920487 | 69.81% | 8.865% |
| 73 | 11.955 | 3376 | 3379 | 3383 | rBV3 | 749 | 590 | 0.02% | 0.003% |
| 74 | 11.977 | 3383 | 3386 | 3389 | rBV4 | 992 | 615 | 0.02% | 0.003% |
| 75 | 12.067 | 3410 | 3414 | 3416 | rBV2 | 639 | 605 | 0.02% | 0.003% |
| 76 | 12.225 | 3459 | 3463 | 3466 | rBV2 | 851 | 764 | 0.03% | 0.004% |
| 77 | 12.353 | 3495 | 3503 | 3516 | rBV2 | 4362 | 8268 | 0.30% | 0.038% |
| 78 | 12.746 | 3622 | 3625 | 3629 | rBV5 | 682 | 589 | 0.02% | 0.003% |
| 79 | 12.839 | 3650 | 3654 | 3655 | rBV2 | 569 | 467 | 0.02% | 0.002% |
| 80 | 12.897 | 3668 | 3672 | 3674 | rBV3 | 668 | 484 | 0.02% | 0.002% |
| 81 | 13.003 | 3700 | 3705 | 3707 | rBV3 | 583 | 552 | 0.02% | 0.003% |
| 82 | 13.048 | 3714 | 3719 | 3721 | rBV4 | 816 | 733 | 0.03% | 0.003% |
| 83 | 13.186 | 3757 | 3762 | 3763 | rBV2 | 510 | 454 | 0.02% | 0.002% |
| 84 | 13.321 | 3801 | 3804 | 3808 | rBV4 | 964 | 666 | 0.02% | 0.003% |
| 85 | 13.357 | 3811 | 3815 | 3816 | rBV | 598 | 454 | 0.02% | 0.002% |
| 86 | 13.456 | 3845 | 3846 | 3852 | rVB3 | 860 | 722 | 0.03% | 0.003% |
| 87 | 13.492 | 3853 | 3857 | 3861 | rVB4 | 982 | 1071 | 0.04% | 0.005% |
| 88 | 13.511 | 3861 | 3863 | 3866 | rBV3 | 965 | 724 | 0.03% | 0.003% |
| 89 | 13.649 | 3904 | 3906 | 3908 | rBV3 | 841 | 593 | 0.02% | 0.003% |
| 90 | 13.749 | 3934 | 3937 | 3940 | rBV4 | 710 | 553 | 0.02% | 0.003% |
| 91 | 13.955 | 3998 | 4001 | 4003 | rBV3 | 536 | 486 | 0.02% | 0.002% |
| 92 | 13.990 | 4009 | 4012 | 4015 | rBV | 653 | 543 | 0.02% | 0.003% |
| 93 | 14.048 | 4026 | 4030 | 4032 | rBV2 | 782 | 541 | 0.02% | 0.002% |
| 94 | 14.344 | 4119 | 4122 | 4128 | rBV7 | 821 | 671 | 0.02% | 0.003% |
| 95 | 14.691 | 4228 | 4230 | 4233 | rBV4 | 986 | 606 | 0.02% | 0.003% |
| 96 | 14.794 | 4256 | 4262 | 4263 | rBV4 | 763 | 644 | 0.02% | 0.003% |
| 97 | 15.048 | 4338 | 4341 | 4345 | rBV4 | 1110 | 887 | 0.03% | 0.004% |
| 98 | 15.260 | 4403 | 4407 | 4412 | rBV3 | 1037 | 1065 | 0.04% | 0.005% |
| 99 | 15.385 | 4444 | 4446 | 4451 | rBV3 | 998 | 928 | 0.03% | 0.004% |
| 100 | 15.945 | 4614 | 4620 | 4624 | rBV5 | 1681 | 2032 | 0.07% | 0.009% |

Sum of corrected areas: 21663243

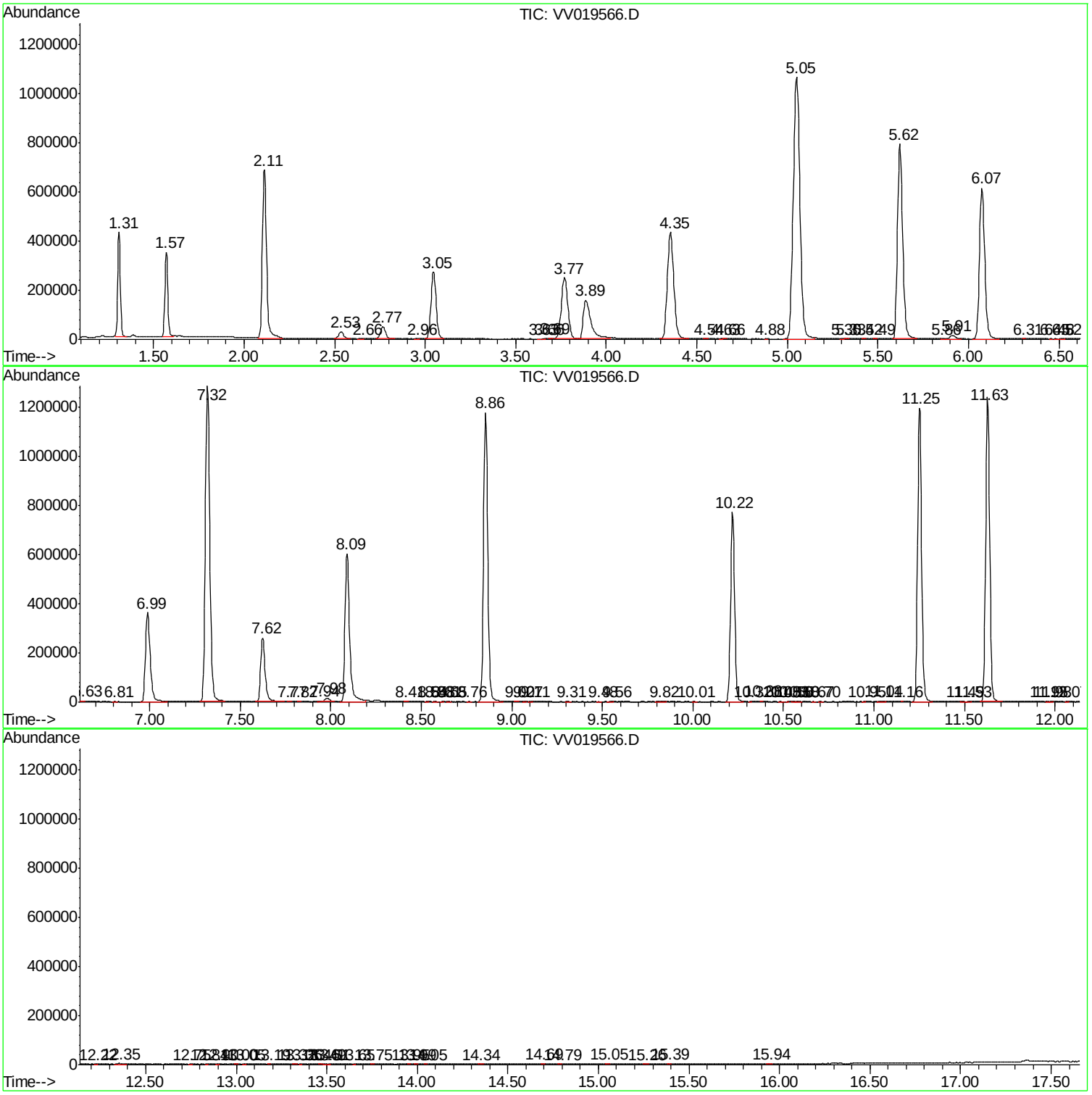
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121220\
Data File : VV019566.D
Acq On : 12 Dec 2020 19:17
Operator : SY/MD
Sample : L4928-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BG4J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121020WMA.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_V\DATA\VV121220\
Data File : VV019566.D
Acq On : 12 Dec 2020 19:17
Operator : SY/MD
Sample : L4928-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BG4J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121020WMA.M
Quant Title : VOC Analysis

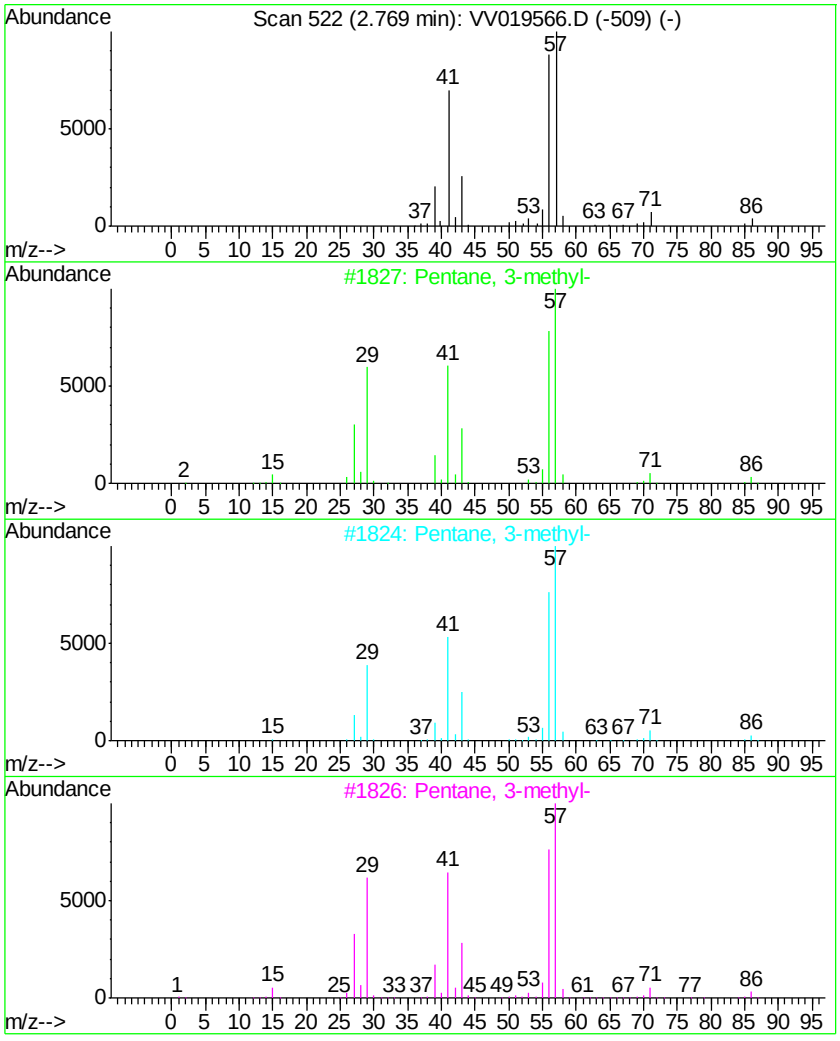
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

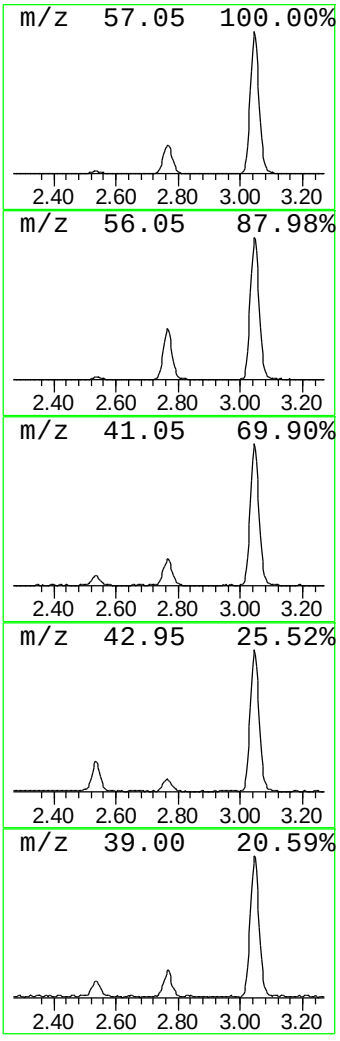
**********

Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.77 | 3.19 ug/L | 101117 | 1,4-Difluorobenzene | 5.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 91 |
| 2 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 91 |
| 3 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 90 |
| 4 | Butane, 2,2,3-trimethyl- | 100 | C7H16 | 000464-06-2 | 64 |
| 5 | Butane, 2,2,3-trimethyl- | 100 | C7H16 | 000464-06-2 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121220\
Data File : VV019566.D
Acq On : 12 Dec 2020 19:17
Operator : SY/MD
Sample : L4928-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BG4J4

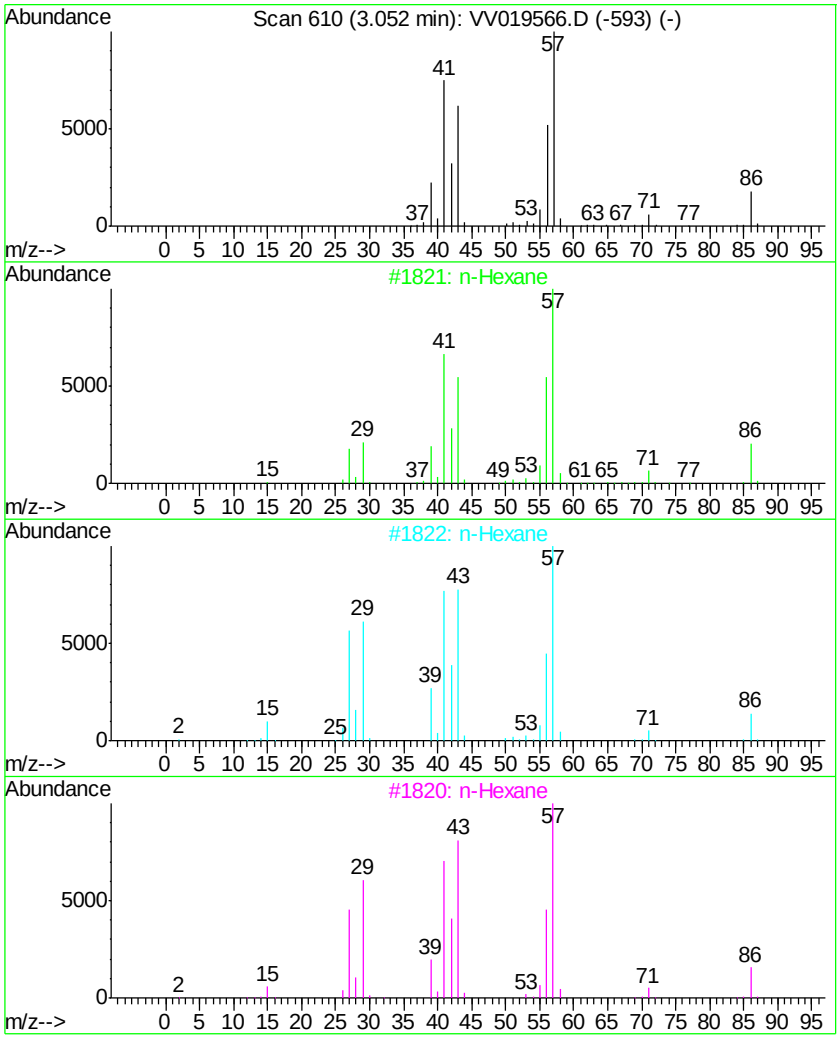
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121020WMA.M
Quant Title : VOC Analysis

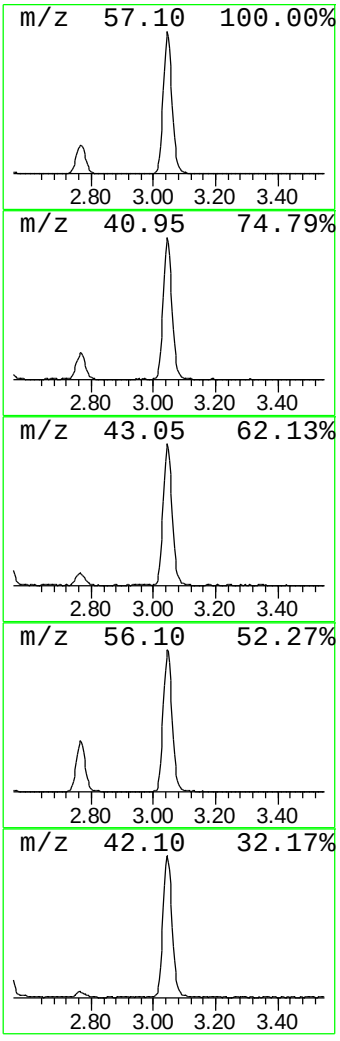
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.05 | 17.18 ug/L | 544162 | 1,4-Difluorobenzene | 5.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexane | 86 | C6H14 | 000110-54-3 | 94 |
| 2 | n-Hexane | 86 | C6H14 | 000110-54-3 | 64 |
| 3 | n-Hexane | 86 | C6H14 | 000110-54-3 | 59 |
| 4 | Pentane, 2,2,3,4-tetramethyl- | 128 | C9H20 | 001186-53-4 | 50 |
| 5 | Butanal, 2-methyl- | 86 | C5H10O | 000096-17-3 | 38 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121220\
Data File : VV019566.D
Acq On : 12 Dec 2020 19:17
Operator : SY/MD
Sample : L4928-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BG4J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121020WMA.M
Quant Title : VOC Analysis

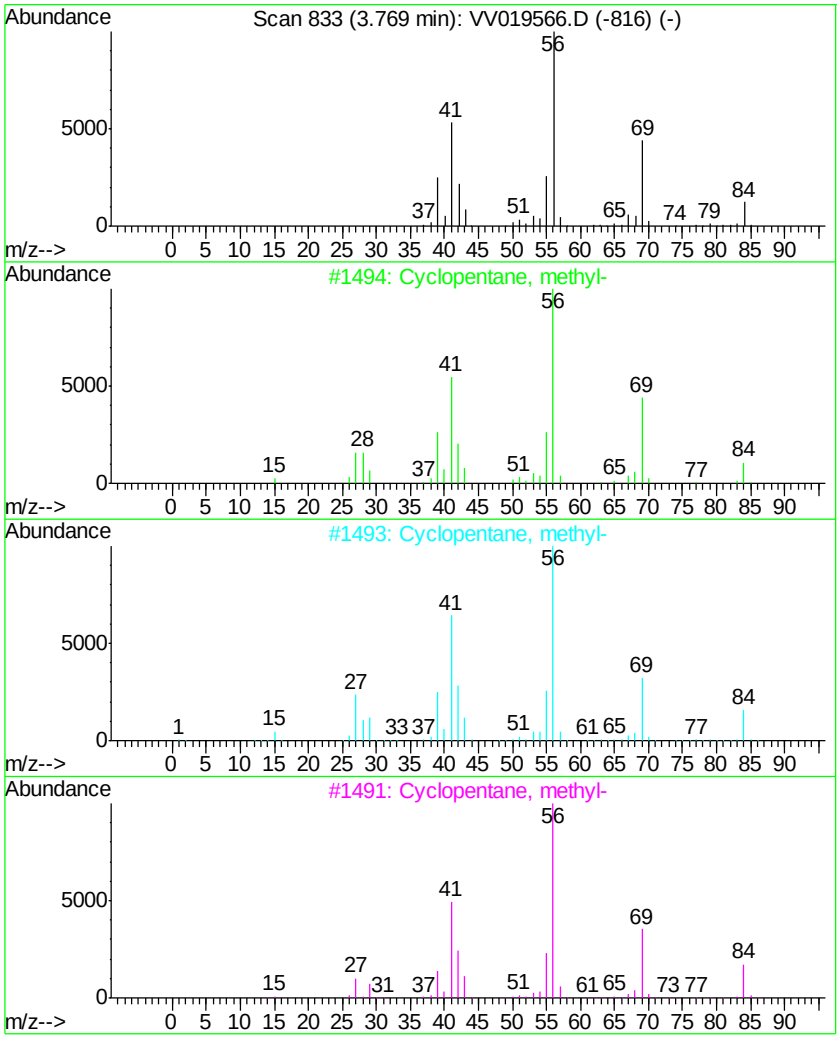
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

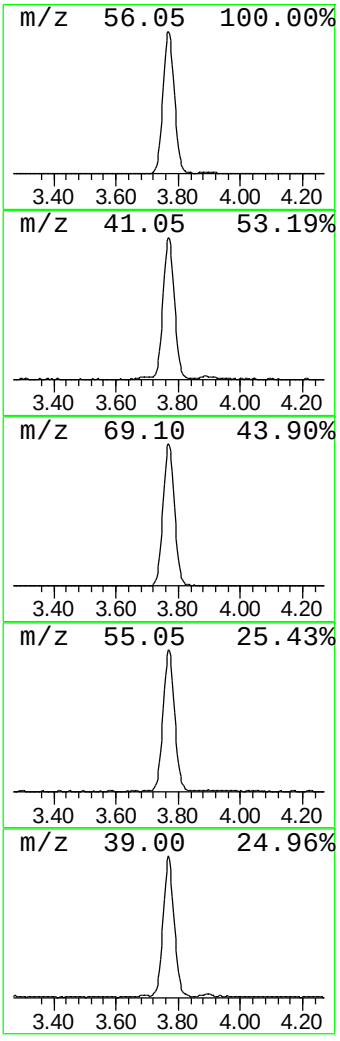
**********

Peak Number 3 (DEL) Alkane: Cyclic3.77 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.77 | 19.72 ug/L | 624514 | 1,4-Difluorobenzene | 5.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 94 |
| 2 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 91 |
| 3 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 86 |
| 4 | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4 | 004076-36-2 | 80 |
| 5 | Propane, 2-cyclopropyl- | 84 | C6H12 | 003638-35-5 | 64 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121220\
Data File : VV019566.D
Acq On : 12 Dec 2020 19:17
Operator : SY/MD
Sample : L4928-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BG4J4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121020WMA.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 |
| (DEL) Alkane: Str... | 2.77 | 3.2 | ug/L | 101117 | 1 | 5.62 | 1583350 | 50.0 |
| (DEL) Alkane: Str... | 3.05 | 17.2 | ug/L | 544162 | 1 | 5.62 | 1583350 | 50.0 |
| (DEL) Alkane: Cyc... | 3.77 | 19.7 | ug/L | 624514 | 1 | 5.62 | 1583350 | 50.0 |