LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120219\
Data File : VV013879.D
Acq On : 02 Dec 2019 18:26
Operator : SY/MD
Sample : K6083-03
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** C0AA2

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\SOMVLM120219WMA.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 | 1.206 | 30 | 36 | 47 | rBV | 198051 | 289262 | 0.49% | 0.282% |
| 2 | 1.319 | 65 | 71 | 82 | rVB2 | 382089 | 389189 | 0.66% | 0.379% |
| 3 | 1.573 | 144 | 150 | 160 | rVB | 313312 | 356605 | 0.61% | 0.348% |
| 4 | 2.126 | 314 | 322 | 335 | rVB2 | 630971 | 914667 | 1.55% | 0.892% |
| 5 | 2.521 | 436 | 445 | 457 | rVB3 | 11786 | 23478 | 0.04% | 0.023% |
| 6 | 2.627 | 474 | 478 | 480 | rBV5 | 2404 | 1813 | 0.00% | 0.002% |
| 7 | 2.791 | 519 | 529 | 542 | rVB | 61843 | 109669 | 0.19% | 0.107% |
| 8 | 2.891 | 558 | 560 | 562 | rBV3 | 970 | 597 | 0.00% | 0.001% |
| 9 | 2.942 | 574 | 576 | 580 | rVB4 | 1603 | 1110 | 0.00% | 0.001% |
| 10 | 2.991 | 587 | 591 | 593 | rBV5 | 1450 | 977 | 0.00% | 0.001% |
| 11 | 3.013 | 596 | 598 | 602 | rBV4 | 1136 | 765 | 0.00% | 0.001% |
| 12 | 3.081 | 616 | 619 | 625 | rVB7 | 1564 | 1458 | 0.00% | 0.001% |
| 13 | 3.142 | 634 | 638 | 642 | rBV6 | 638 | 654 | 0.00% | 0.001% |
| 14 | 3.167 | 643 | 646 | 650 | rVB4 | 1798 | 1128 | 0.00% | 0.001% |
| 15 | 3.193 | 652 | 654 | 656 | rBV2 | 1584 | 862 | 0.00% | 0.001% |
| 16 | 3.232 | 658 | 666 | 677 | rVB2 | 8688 | 17103 | 0.03% | 0.017% |
| 17 | 3.357 | 701 | 705 | 706 | rBV4 | 932 | 715 | 0.00% | 0.001% |
| 18 | 3.405 | 717 | 720 | 723 | rBV3 | 1613 | 1219 | 0.00% | 0.001% |
| 19 | 3.421 | 723 | 725 | 728 | rVV4 | 1649 | 1201 | 0.00% | 0.001% |
| 20 | 3.454 | 733 | 735 | 738 | rVB2 | 1575 | 747 | 0.00% | 0.001% |
| 21 | 3.476 | 738 | 742 | 744 | rBV5 | 852 | 686 | 0.00% | 0.001% |
| 22 | 3.521 | 752 | 756 | 758 | rVB3 | 1546 | 779 | 0.00% | 0.001% |
| 23 | 3.695 | 806 | 810 | 814 | rBV7 | 2018 | 1508 | 0.00% | 0.001% |
| 24 | 3.720 | 814 | 818 | 820 | rVV3 | 1033 | 920 | 0.00% | 0.001% |
| 25 | 3.794 | 837 | 841 | 844 | rBV5 | 1616 | 1337 | 0.00% | 0.001% |
| 26 | 3.823 | 844 | 850 | 852 | rBV6 | 1450 | 1022 | 0.00% | 0.001% |
| 27 | 3.955 | 866 | 891 | 922 | rBV2 | 2058569 | 5242197 | 8.90% | 5.110% |
| 28 | 4.392 | 1013 | 1027 | 1059 | rVB | 378224 | 944416 | 1.60% | 0.921% |
| 29 | 4.650 | 1097 | 1107 | 1120 | rBV4 | 15309 | 36887 | 0.06% | 0.036% |
| 30 | 4.769 | 1140 | 1144 | 1145 | rBV4 | 1123 | 807 | 0.00% | 0.001% |
| 31 | 4.807 | 1148 | 1156 | 1157 | rBV8 | 2813 | 3744 | 0.01% | 0.004% |
| 32 | 4.920 | 1187 | 1191 | 1194 | rBV4 | 907 | 729 | 0.00% | 0.001% |
| 33 | 4.962 | 1200 | 1204 | 1207 | rBV4 | 1165 | 1139 | 0.00% | 0.001% |
| 34 | 4.984 | 1208 | 1211 | 1214 | rVV4 | 1761 | 1180 | 0.00% | 0.001% |

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Sample : K6083-03
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** C0AA2

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\SOMVLM120219WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 5.090 | 1224 | 1244 | 1271 | rBV2 | 952522 | 2397117 | 4.07% | 2.337% |
| 36 | 5.659 | 1407 | 1421 | 1443 | rBV | 782656 | 1526504 | 2.59% | 1.488% |
| 37 | 5.958 | 1497 | 1514 | 1549 | rBV | 30710183 | 58912795 | 100.00% | 57.428% |
| 38 | 6.113 | 1553 | 1562 | 1584 | rVB | 530680 | 1047697 | 1.78% | 1.021% |
| 39 | 7.026 | 1835 | 1846 | 1863 | rBV | 272630 | 480266 | 0.82% | 0.468% |
| 40 | 7.354 | 1936 | 1948 | 1967 | rBV | 1077737 | 1850365 | 3.14% | 1.804% |
| 41 | 7.659 | 2032 | 2043 | 2067 | rBV | 192836 | 332187 | 0.56% | 0.324% |
| 42 | 8.016 | 2139 | 2154 | 2176 | rBV | 12307232 | 20390061 | 34.61% | 19.876% |
| 43 | 8.125 | 2180 | 2188 | 2229 | rVB | 597883 | 1128089 | 1.91% | 1.100% |
| 44 | 8.813 | 2399 | 2402 | 2404 | rBV4 | 1849 | 1167 | 0.00% | 0.001% |
| 45 | 8.891 | 2414 | 2426 | 2445 | rBV | 1153399 | 1837416 | 3.12% | 1.791% |
| 46 | 9.379 | 2575 | 2578 | 2582 | rBV5 | 1993 | 1765 | 0.00% | 0.002% |
| 47 | 9.418 | 2588 | 2590 | 2593 | rBV3 | 1461 | 604 | 0.00% | 0.001% |
| 48 | 9.466 | 2601 | 2605 | 2608 | rBV3 | 1597 | 1212 | 0.00% | 0.001% |
| 49 | 9.659 | 2662 | 2665 | 2667 | rBV3 | 1644 | 923 | 0.00% | 0.001% |
| 50 | 9.694 | 2671 | 2676 | 2679 | rBV5 | 1789 | 2035 | 0.00% | 0.002% |
| 51 | 9.740 | 2683 | 2690 | 2692 | rBV7 | 1467 | 1478 | 0.00% | 0.001% |
| 52 | 9.855 | 2724 | 2726 | 2729 | rVB3 | 1632 | 827 | 0.00% | 0.001% |
| 53 | 9.955 | 2753 | 2757 | 2758 | rBV3 | 1476 | 909 | 0.00% | 0.001% |
| 54 | 10.074 | 2789 | 2794 | 2800 | rBV7 | 2059 | 2562 | 0.00% | 0.002% |
| 55 | 10.129 | 2809 | 2811 | 2817 | rVB5 | 1739 | 1378 | 0.00% | 0.001% |
| 56 | 10.190 | 2826 | 2830 | 2834 | rBV5 | 2182 | 1976 | 0.00% | 0.002% |
| 57 | 10.254 | 2834 | 2850 | 2867 | rBV | 684968 | 1097898 | 1.86% | 1.070% |
| 58 | 10.357 | 2879 | 2882 | 2886 | rBV4 | 1533 | 1159 | 0.00% | 0.001% |
| 59 | 10.559 | 2943 | 2945 | 2947 | rBV3 | 2083 | 955 | 0.00% | 0.001% |
| 60 | 10.585 | 2947 | 2953 | 2962 | rVB10 | 2209 | 3391 | 0.01% | 0.003% |
| 61 | 10.627 | 2962 | 2966 | 2968 | rBV3 | 1865 | 1188 | 0.00% | 0.001% |
| 62 | 10.649 | 2970 | 2973 | 2977 | rBV5 | 1481 | 1119 | 0.00% | 0.001% |
| 63 | 10.801 | 3016 | 3020 | 3021 | rBV3 | 1549 | 913 | 0.00% | 0.001% |
| 64 | 10.839 | 3029 | 3032 | 3037 | rBV5 | 1105 | 1125 | 0.00% | 0.001% |
| 65 | 10.884 | 3042 | 3046 | 3047 | rBV3 | 1597 | 1119 | 0.00% | 0.001% |
| 66 | 10.955 | 3064 | 3068 | 3071 | rBV6 | 1839 | 1953 | 0.00% | 0.002% |
| 67 | 11.061 | 3097 | 3101 | 3102 | rBV3 | 2091 | 1208 | 0.00% | 0.001% |
| 68 | 11.199 | 3141 | 3144 | 3146 | rBV4 | 1166 | 731 | 0.00% | 0.001% |
| 69 | 11.212 | 3146 | 3148 | 3151 | rBV4 | 1366 | 1070 | 0.00% | 0.001% |
| 70 | 11.289 | 3160 | 3172 | 3192 | rBV | 976727 | 1515954 | 2.57% | 1.478% |
| 71 | 11.440 | 3217 | 3219 | 3222 | rBV4 | 956 | 722 | 0.00% | 0.001% |

LSC Area Percent Report

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Sample : K6083-03
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** C0AA2

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\SOMVLM120219WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.492 | 3233 | 3235 | 3239 | rBV3 | 2151 | 1489 | 0.00% | 0.001% |
| 73 | 11.563 | 3255 | 3257 | 3260 | rBV4 | 1075 | 607 | 0.00% | 0.001% |
| 74 | 11.604 | 3268 | 3270 | 3274 | rBV4 | 954 | 706 | 0.00% | 0.001% |
| 75 | 11.665 | 3277 | 3289 | 3309 | rVV | 1024538 | 1617609 | 2.75% | 1.577% |
| 76 | 11.804 | 3329 | 3332 | 3335 | rBV4 | 2599 | 2332 | 0.00% | 0.002% |
| 77 | 11.862 | 3348 | 3350 | 3355 | rBV6 | 1712 | 1375 | 0.00% | 0.001% |
| 78 | 12.109 | 3425 | 3427 | 3429 | rBV2 | 1429 | 882 | 0.00% | 0.001% |
| 79 | 12.151 | 3435 | 3440 | 3441 | rBV4 | 1322 | 919 | 0.00% | 0.001% |
| 80 | 12.161 | 3441 | 3443 | 3447 | rVB4 | 1883 | 1024 | 0.00% | 0.001% |
| 81 | 12.350 | 3498 | 3502 | 3504 | rBV3 | 1151 | 930 | 0.00% | 0.001% |
| 82 | 12.418 | 3517 | 3523 | 3526 | rBV6 | 1590 | 1948 | 0.00% | 0.002% |
| 83 | 12.553 | 3564 | 3565 | 3568 | rVB2 | 1524 | 610 | 0.00% | 0.001% |
| 84 | 12.710 | 3599 | 3614 | 3627 | rBV2 | 10057 | 22605 | 0.04% | 0.022% |
| 85 | 12.823 | 3646 | 3649 | 3652 | rVB5 | 1546 | 846 | 0.00% | 0.001% |
| 86 | 12.839 | 3652 | 3654 | 3660 | rBV4 | 1068 | 889 | 0.00% | 0.001% |
| 87 | 12.865 | 3660 | 3662 | 3664 | rBV2 | 1104 | 656 | 0.00% | 0.001% |
| 88 | 12.900 | 3669 | 3673 | 3675 | rBV4 | 1417 | 939 | 0.00% | 0.001% |
| 89 | 13.145 | 3747 | 3749 | 3752 | rBV3 | 1010 | 607 | 0.00% | 0.001% |
| 90 | 13.183 | 3756 | 3761 | 3762 | rBV4 | 1940 | 1348 | 0.00% | 0.001% |
| 91 | 13.247 | 3779 | 3781 | 3784 | rBV3 | 1553 | 844 | 0.00% | 0.001% |
| 92 | 13.315 | 3794 | 3802 | 3808 | rBV3 | 4204 | 6405 | 0.01% | 0.006% |
| 93 | 13.556 | 3869 | 3877 | 3881 | rBV6 | 3616 | 5128 | 0.01% | 0.005% |
| 94 | 13.739 | 3929 | 3934 | 3936 | rBV4 | 2180 | 1806 | 0.00% | 0.002% |
| 95 | 13.849 | 3966 | 3968 | 3971 | rVB3 | 1604 | 646 | 0.00% | 0.001% |
| 96 | 14.026 | 4018 | 4023 | 4024 | rBV4 | 1618 | 1171 | 0.00% | 0.001% |
| 97 | 14.228 | 4083 | 4086 | 4089 | rBV3 | 1632 | 1215 | 0.00% | 0.001% |
| 98 | 14.630 | 4207 | 4211 | 4214 | rBV5 | 3566 | 3735 | 0.01% | 0.004% |
| 99 | 14.681 | 4223 | 4227 | 4230 | rBV5 | 2280 | 2165 | 0.00% | 0.002% |
| 100 | 14.861 | 4277 | 4283 | 4285 | rBV7 | 2441 | 2906 | 0.00% | 0.003% |

Sum of corrected areas: 102584750

LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV120219\
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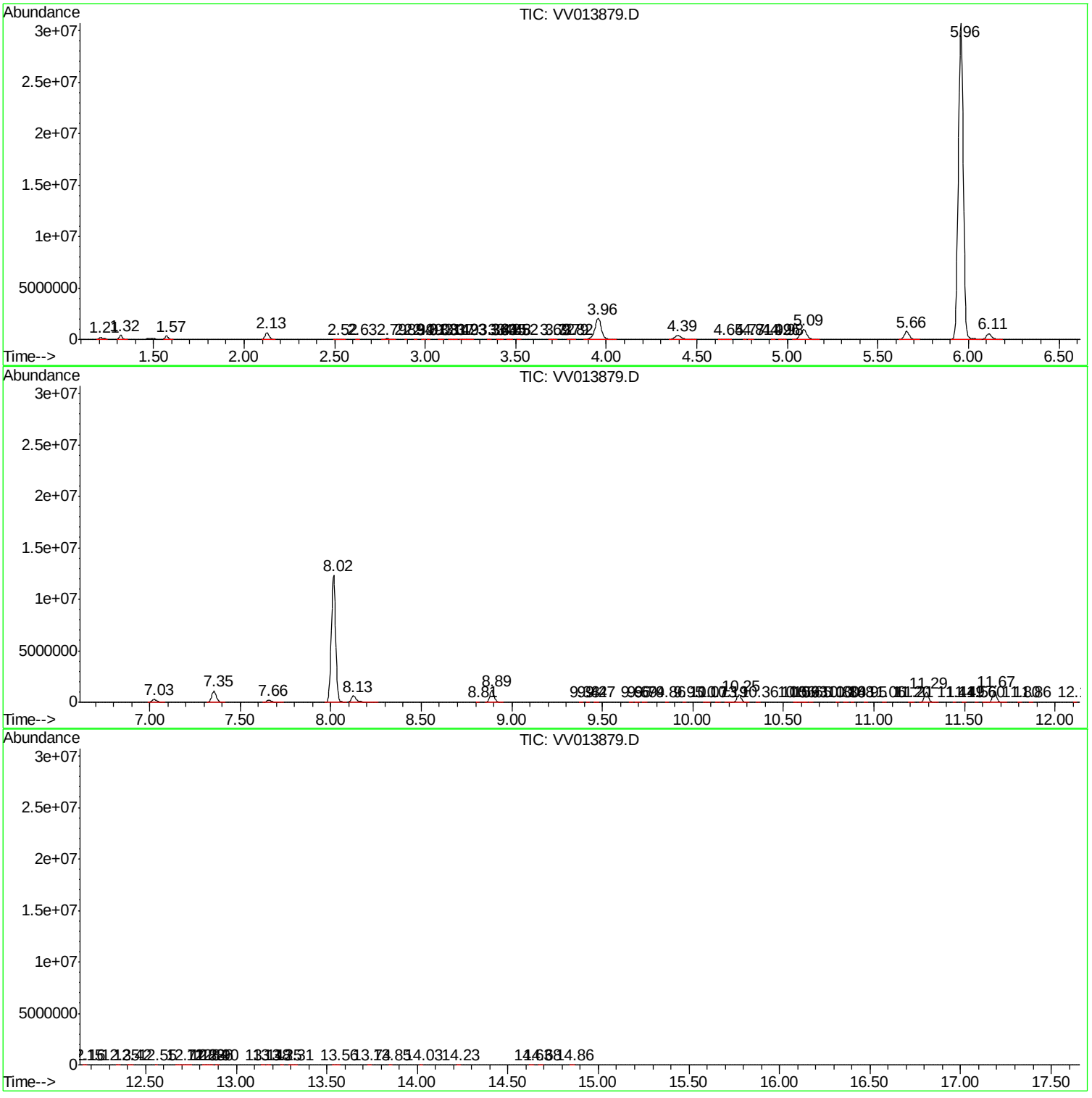
Sample : K6083-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** C0AA2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM120219WMA.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV120219\
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Operator : SY/MD
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**Instrument :** MSVOA_V
**ClientSampleId :** C0AA2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM120219WMA.M
Quant Title : VOC Analysis

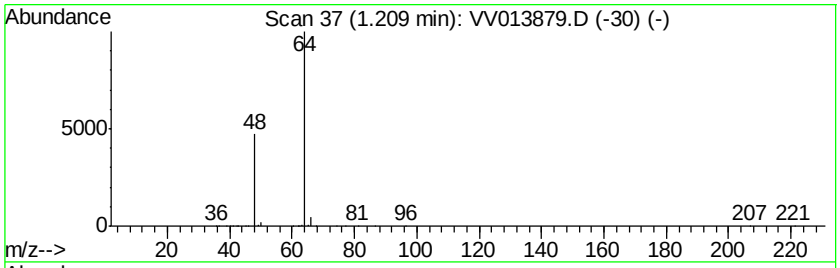
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

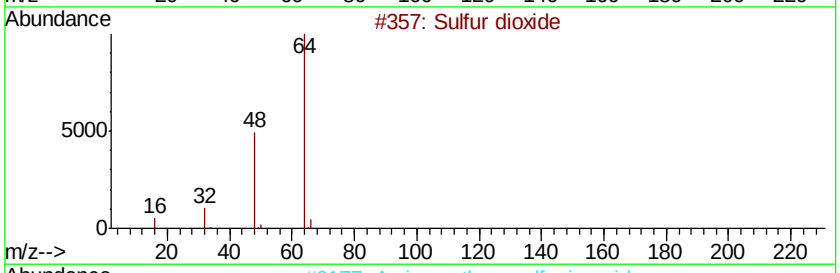
**********

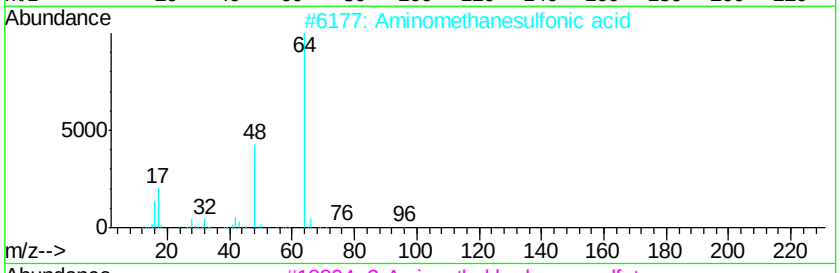
Peak Number 1 Sulfur dioxide Concentration Rank 2

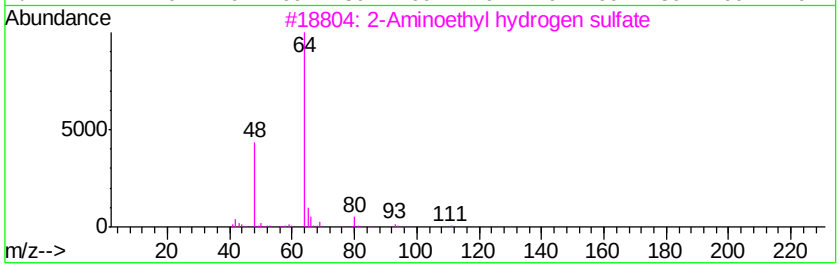
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.21 | 9.47 ug/L | 289262 | 1,4-Difluorobenzene | 5.66 |

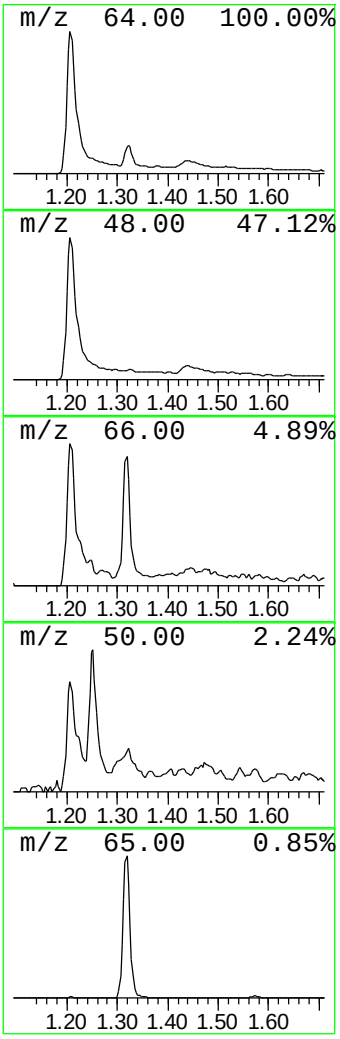
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Sulfur dioxide | 64 | O2S | 007446-09-5 | 83 |
| 2 | Aminomethanesulfonic acid | 111 | CH5NO3S | 013881-91-9 | 74 |
| 3 | 2-Aminoethyl hydrogen sulfate | 141 | C2H7NO4S | 000926-39-6 | 74 |
| 4 | Aminomethanesulfonic acid | 111 | CH5NO3S | 013881-91-9 | 9 |
| 5 | L-Alanine, 3-sulfo- | 169 | C3H7NO5S | 000498-40-8 | 9 |



Tentatively Identified Compound (LSC) summary

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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 |
| Sulfur dioxide | 1.21 | 9.5 | ug/L | 289262 | 1 | 5.66 | 1526500 | 50.0 |