LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010919.D
Acq On : 16 May 2019 02:53
Operator : SY/MD
Sample : K2853-03
Misc : 6.41G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51B0

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\SOM2VLM051319S.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 | 28 | 36 | 59 | rBV | 610555 | 868464 | 100.00% | 20.569% |
| 2 | 2.113 | 310 | 318 | 330 | rVB | 81780 | 120259 | 13.85% | 2.848% |
| 3 | 2.219 | 348 | 351 | 359 | rBV4 | 1193 | 1205 | 0.14% | 0.029% |
| 4 | 2.306 | 370 | 378 | 395 | rVB2 | 11903 | 24748 | 2.85% | 0.586% |
| 5 | 2.418 | 410 | 413 | 420 | rBV3 | 238 | 286 | 0.03% | 0.007% |
| 6 | 2.525 | 437 | 446 | 456 | rVB3 | 7538 | 12322 | 1.42% | 0.292% |
| 7 | 2.640 | 474 | 482 | 484 | rBV2 | 1331 | 1596 | 0.18% | 0.038% |
| 8 | 2.930 | 567 | 572 | 574 | rBV2 | 188 | 221 | 0.03% | 0.005% |
| 9 | 3.071 | 615 | 616 | 621 | rVB | 339 | 206 | 0.02% | 0.005% |
| 10 | 3.097 | 621 | 624 | 630 | rBV2 | 229 | 299 | 0.03% | 0.007% |
| 11 | 3.361 | 703 | 706 | 708 | rBV2 | 162 | 126 | 0.01% | 0.003% |
| 12 | 3.544 | 757 | 763 | 767 | rVB2 | 280 | 331 | 0.04% | 0.008% |
| 13 | 3.576 | 767 | 773 | 775 | rBV2 | 315 | 352 | 0.04% | 0.008% |
| 14 | 3.672 | 797 | 803 | 808 | rBV2 | 243 | 369 | 0.04% | 0.009% |
| 15 | 3.733 | 816 | 822 | 830 | rBV2 | 284 | 519 | 0.06% | 0.012% |
| 16 | 3.926 | 870 | 882 | 907 | rBV | 22042 | 57342 | 6.60% | 1.358% |
| 17 | 4.094 | 928 | 934 | 936 | rBV4 | 511 | 478 | 0.06% | 0.011% |
| 18 | 4.161 | 952 | 955 | 957 | rBV2 | 248 | 162 | 0.02% | 0.004% |
| 19 | 4.225 | 973 | 975 | 978 | rBV | 167 | 112 | 0.01% | 0.003% |
| 20 | 4.389 | 1009 | 1026 | 1053 | rBV | 70385 | 178785 | 20.59% | 4.234% |
| 21 | 4.685 | 1114 | 1118 | 1120 | rBV2 | 202 | 182 | 0.02% | 0.004% |
| 22 | 4.750 | 1135 | 1138 | 1141 | rBV | 161 | 114 | 0.01% | 0.003% |
| 23 | 4.801 | 1149 | 1154 | 1159 | rBV2 | 208 | 297 | 0.03% | 0.007% |
| 24 | 4.907 | 1184 | 1187 | 1191 | rVB2 | 159 | 116 | 0.01% | 0.003% |
| 25 | 4.930 | 1191 | 1194 | 1197 | rBV | 155 | 127 | 0.01% | 0.003% |
| 26 | 4.949 | 1197 | 1200 | 1203 | rBV2 | 193 | 174 | 0.02% | 0.004% |
| 27 | 4.978 | 1207 | 1209 | 1211 | rBV2 | 181 | 103 | 0.01% | 0.002% |
| 28 | 5.087 | 1223 | 1243 | 1267 | rBV3 | 181998 | 445389 | 51.28% | 10.549% |
| 29 | 5.380 | 1329 | 1334 | 1336 | rBV | 455 | 280 | 0.03% | 0.007% |
| 30 | 5.431 | 1347 | 1350 | 1352 | rBV | 141 | 104 | 0.01% | 0.002% |
| 31 | 5.467 | 1357 | 1361 | 1365 | rBV2 | 184 | 213 | 0.02% | 0.005% |
| 32 | 5.656 | 1406 | 1420 | 1442 | rBV | 164457 | 327282 | 37.69% | 7.751% |
| 33 | 5.888 | 1490 | 1492 | 1495 | rVB | 158 | 67 | 0.01% | 0.002% |
| 34 | 5.923 | 1500 | 1503 | 1506 | rVB2 | 282 | 178 | 0.02% | 0.004% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010919.D
Acq On : 16 May 2019 02:53
Operator : SY/MD
Sample : K2853-03
Misc : 6.41G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51B0

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\SOM2VLM051319S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 5.949 | 1506 | 1511 | 1522 | rBV6 | 1492 | 2639 | 0.30% | 0.063% |
| 36 | 6.113 | 1547 | 1562 | 1581 | rBV | 104959 | 213319 | 24.56% | 5.052% |
| 37 | 6.312 | 1619 | 1624 | 1628 | rBV2 | 234 | 294 | 0.03% | 0.007% |
| 38 | 6.364 | 1634 | 1640 | 1643 | rBV | 193 | 281 | 0.03% | 0.007% |
| 39 | 6.563 | 1699 | 1702 | 1704 | rBV2 | 158 | 125 | 0.01% | 0.003% |
| 40 | 6.598 | 1710 | 1713 | 1715 | rBV | 381 | 213 | 0.02% | 0.005% |
| 41 | 6.634 | 1718 | 1724 | 1726 | rBV2 | 218 | 140 | 0.02% | 0.003% |
| 42 | 6.647 | 1726 | 1728 | 1729 | rBV | 286 | 98 | 0.01% | 0.002% |
| 43 | 6.701 | 1739 | 1745 | 1750 | rBV2 | 624 | 865 | 0.10% | 0.020% |
| 44 | 6.756 | 1760 | 1762 | 1765 | rBV | 183 | 115 | 0.01% | 0.003% |
| 45 | 6.794 | 1772 | 1774 | 1776 | rBV | 127 | 73 | 0.01% | 0.002% |
| 46 | 6.907 | 1806 | 1809 | 1812 | rBV2 | 131 | 109 | 0.01% | 0.003% |
| 47 | 6.962 | 1823 | 1826 | 1828 | rBV | 141 | 75 | 0.01% | 0.002% |
| 48 | 6.971 | 1828 | 1829 | 1832 | rBV | 111 | 77 | 0.01% | 0.002% |
| 49 | 7.026 | 1834 | 1846 | 1860 | rBV | 51382 | 91947 | 10.59% | 2.178% |
| 50 | 7.151 | 1880 | 1885 | 1887 | rBV | 227 | 193 | 0.02% | 0.005% |
| 51 | 7.174 | 1887 | 1892 | 1893 | rBV | 465 | 382 | 0.04% | 0.009% |
| 52 | 7.302 | 1927 | 1932 | 1934 | rBV2 | 236 | 228 | 0.03% | 0.005% |
| 53 | 7.357 | 1934 | 1949 | 1964 | rBV | 199366 | 346627 | 39.91% | 8.210% |
| 54 | 7.573 | 2011 | 2016 | 2018 | rBV3 | 346 | 259 | 0.03% | 0.006% |
| 55 | 7.659 | 2032 | 2043 | 2060 | rBV | 36361 | 60456 | 6.96% | 1.432% |
| 56 | 7.778 | 2078 | 2080 | 2084 | rVB2 | 445 | 257 | 0.03% | 0.006% |
| 57 | 7.981 | 2134 | 2143 | 2149 | rBV4 | 3026 | 5506 | 0.63% | 0.130% |
| 58 | 8.061 | 2164 | 2168 | 2172 | rBV2 | 311 | 264 | 0.03% | 0.006% |
| 59 | 8.129 | 2178 | 2189 | 2222 | rBV | 82196 | 147666 | 17.00% | 3.497% |
| 60 | 8.489 | 2296 | 2301 | 2304 | rBV2 | 225 | 272 | 0.03% | 0.006% |
| 61 | 8.544 | 2314 | 2318 | 2320 | rBV | 168 | 153 | 0.02% | 0.004% |
| 62 | 8.614 | 2337 | 2340 | 2342 | rBV | 242 | 141 | 0.02% | 0.003% |
| 63 | 8.695 | 2362 | 2365 | 2367 | rBV | 390 | 289 | 0.03% | 0.007% |
| 64 | 8.753 | 2380 | 2383 | 2387 | rBV2 | 172 | 164 | 0.02% | 0.004% |
| 65 | 8.772 | 2387 | 2389 | 2393 | rBV2 | 141 | 111 | 0.01% | 0.003% |
| 66 | 8.894 | 2415 | 2427 | 2450 | rBV | 251856 | 418890 | 48.23% | 9.921% |
| 67 | 9.158 | 2506 | 2509 | 2512 | rBV | 191 | 96 | 0.01% | 0.002% |
| 68 | 9.187 | 2512 | 2518 | 2523 | rBV4 | 973 | 1218 | 0.14% | 0.029% |
| 69 | 9.245 | 2534 | 2536 | 2541 | rBV2 | 222 | 167 | 0.02% | 0.004% |
| 70 | 9.328 | 2557 | 2562 | 2566 | rBV2 | 246 | 326 | 0.04% | 0.008% |
| 71 | 9.437 | 2593 | 2596 | 2600 | rBV2 | 199 | 195 | 0.02% | 0.005% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010919.D
Acq On : 16 May 2019 02:53
Operator : SY/MD
Sample : K2853-03
Misc : 6.41G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51B0

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\SOM2VLM051319S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 9.617 | 2650 | 2652 | 2654 | rBV2 | 159 | 89 | 0.01% | 0.002% |
| 73 | 9.743 | 2689 | 2691 | 2694 | rBV2 | 428 | 271 | 0.03% | 0.006% |
| 74 | 9.962 | 2757 | 2759 | 2761 | rBV2 | 137 | 78 | 0.01% | 0.002% |
| 75 | 9.974 | 2761 | 2763 | 2767 | rVB3 | 331 | 225 | 0.03% | 0.005% |
| 76 | 10.048 | 2783 | 2786 | 2791 | rBV2 | 189 | 179 | 0.02% | 0.004% |
| 77 | 10.261 | 2840 | 2852 | 2869 | rVB | 121644 | 192459 | 22.16% | 4.558% |
| 78 | 10.325 | 2869 | 2872 | 2875 | rBV | 155 | 150 | 0.02% | 0.004% |
| 79 | 10.425 | 2894 | 2903 | 2914 | rVB3 | 8602 | 13398 | 1.54% | 0.317% |
| 80 | 10.736 | 2998 | 3000 | 3004 | rVB | 196 | 78 | 0.01% | 0.002% |
| 81 | 10.801 | 3018 | 3020 | 3021 | rBV2 | 355 | 147 | 0.02% | 0.003% |
| 82 | 10.881 | 3043 | 3045 | 3049 | rBV | 210 | 108 | 0.01% | 0.003% |
| 83 | 11.199 | 3142 | 3144 | 3145 | rBV | 205 | 85 | 0.01% | 0.002% |
| 84 | 11.296 | 3161 | 3174 | 3191 | rBV | 208888 | 338537 | 38.98% | 8.018% |
| 85 | 11.357 | 3191 | 3193 | 3197 | rVB2 | 285 | 153 | 0.02% | 0.004% |
| 86 | 11.412 | 3207 | 3210 | 3213 | rBV2 | 379 | 265 | 0.03% | 0.006% |
| 87 | 11.579 | 3255 | 3262 | 3271 | rBV4 | 2759 | 4508 | 0.52% | 0.107% |
| 88 | 11.672 | 3278 | 3291 | 3309 | rVB | 191796 | 308136 | 35.48% | 7.298% |
| 89 | 11.736 | 3309 | 3311 | 3314 | rBV2 | 203 | 128 | 0.01% | 0.003% |
| 90 | 11.887 | 3354 | 3358 | 3360 | rBV | 194 | 100 | 0.01% | 0.002% |
| 91 | 12.084 | 3417 | 3419 | 3420 | rVB | 235 | 88 | 0.01% | 0.002% |
| 92 | 12.293 | 3476 | 3484 | 3498 | rVB2 | 5442 | 8999 | 1.04% | 0.213% |
| 93 | 12.518 | 3547 | 3554 | 3559 | rBV4 | 1141 | 1362 | 0.16% | 0.032% |
| 94 | 12.714 | 3611 | 3615 | 3621 | rBV3 | 1108 | 1168 | 0.13% | 0.028% |
| 95 | 12.932 | 3679 | 3683 | 3690 | rBV2 | 537 | 573 | 0.07% | 0.014% |
| 96 | 13.161 | 3752 | 3754 | 3758 | rBV | 225 | 100 | 0.01% | 0.002% |
| 97 | 13.547 | 3872 | 3874 | 3875 | rBV | 489 | 192 | 0.02% | 0.005% |
| 98 | 14.090 | 4033 | 4043 | 4061 | rBV | 7307 | 13295 | 1.53% | 0.315% |
| 99 | 14.412 | 4141 | 4143 | 4148 | rBV2 | 238 | 136 | 0.02% | 0.003% |
| 100 | 14.460 | 4155 | 4158 | 4160 | rBV | 283 | 159 | 0.02% | 0.004% |

Sum of corrected areas: 4222204

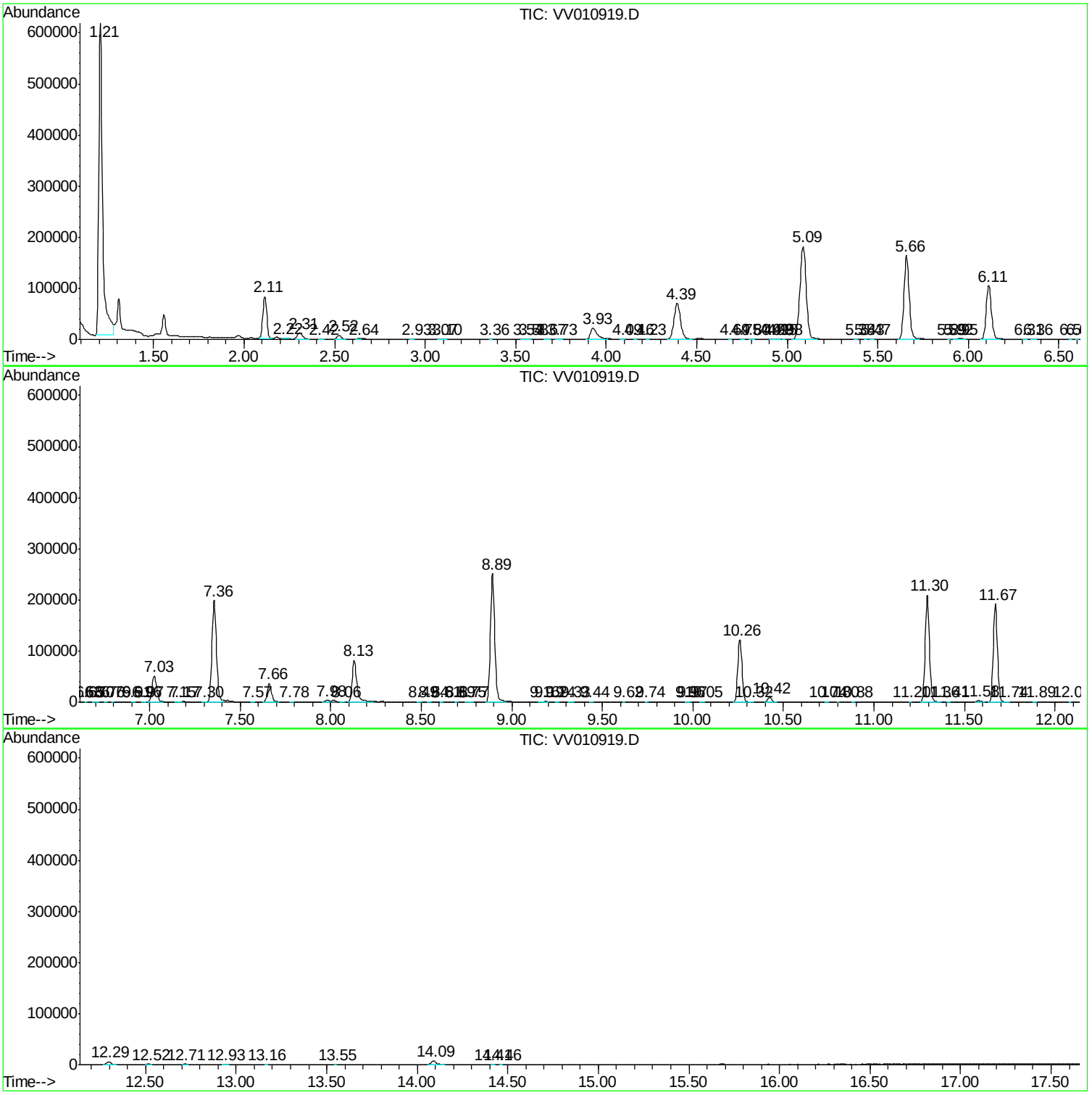
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010919.D
Acq On : 16 May 2019 02:53
Operator : SY/MD
Sample : K2853-03
Misc : 6.41G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
A51B0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.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\VV051419\
Data File : VV010919.D
Acq On : 16 May 2019 02:53
Operator : SY/MD
Sample : K2853-03
Misc : 6.41G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51B0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis

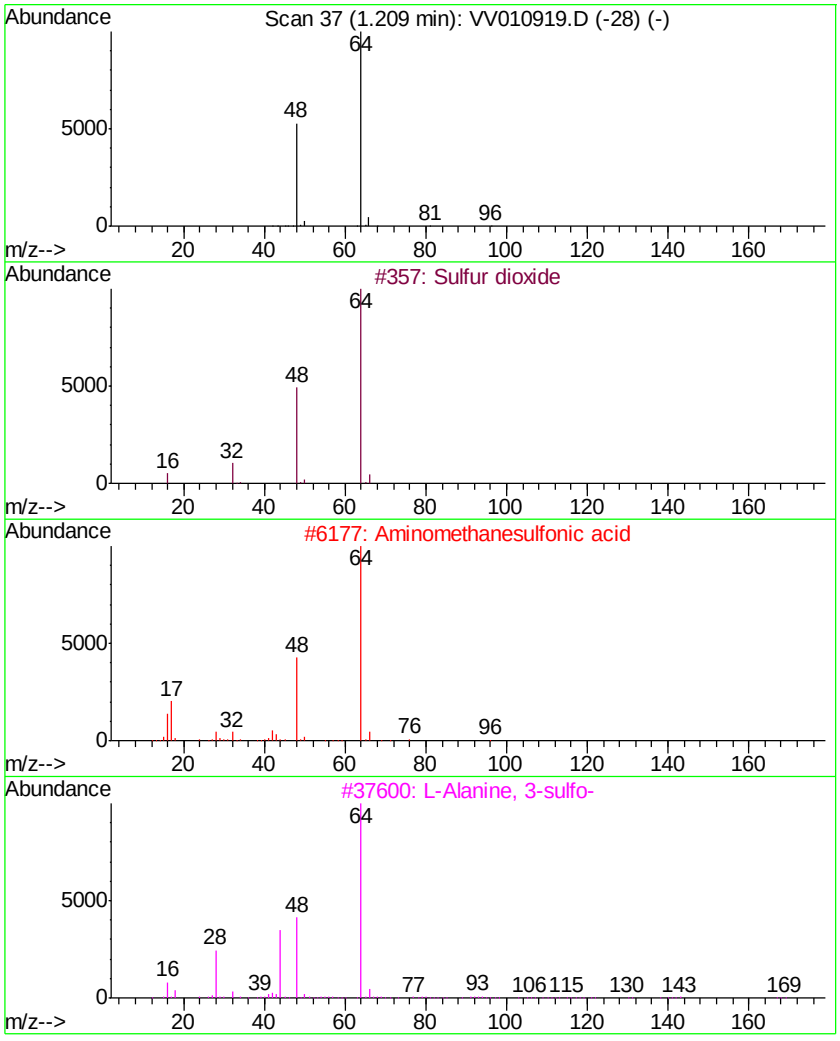
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

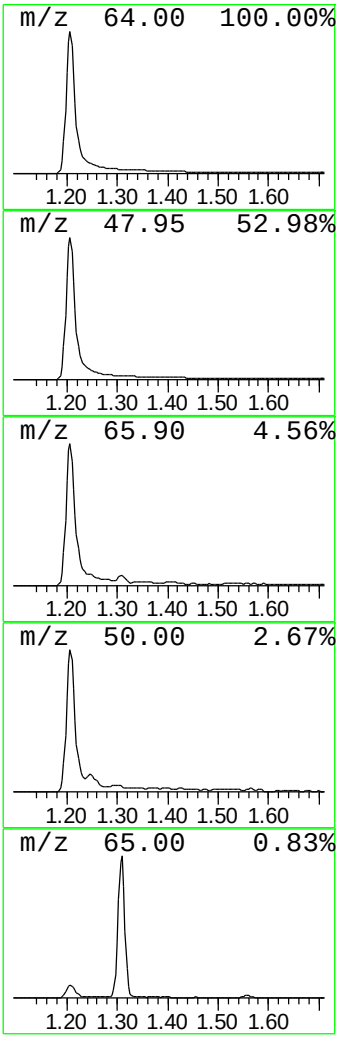
**********

Peak Number 1 Sulfur dioxide Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.21 | 66.34 ug/L | 868464 | 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 | L-Alanine, 3-sulfo- | 169 | C3H7NO5S | 000498-40-8 | 9 |
| 4 | Aminomethanesulfonic acid | 111 | CH5NO3S | 013881-91-9 | 9 |
| 5 | Ethene, 1,1-difluoro- | 64 | C2H2F2 | 000075-38-7 | 4 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV051419\
Data File : VV010919.D
Acq On : 16 May 2019 02:53
Operator : SY/MD
Sample : K2853-03
Misc : 6.41G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51B0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.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 |
| Sulfur dioxide | 1.21 | 66.3 | ug/L | 868464 | 1 | 5.66 | 327282 | 25.0 |