LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102919\
Data File : VW013819.D
Acq On : 30 Oct 2019 03:24
Operator : SY/VA
Sample : K5549-15
Misc : 4.18G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAQ68

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_W\METHOD\SOM2WLM101819S.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 | 2.355 | 68 | 74 | 84 | rBV | 95814 | 182726 | 14.91% | 2.157% |
| 2 | 2.891 | 154 | 162 | 175 | rBV | 57624 | 139242 | 11.36% | 1.644% |
| 3 | 3.026 | 179 | 184 | 192 | rVB3 | 13374 | 32495 | 2.65% | 0.384% |
| 4 | 3.385 | 235 | 243 | 255 | rBV2 | 12367 | 31281 | 2.55% | 0.369% |
| 5 | 3.519 | 261 | 265 | 266 | rBV3 | 501 | 701 | 0.06% | 0.008% |
| 6 | 3.647 | 283 | 286 | 287 | rBV2 | 264 | 302 | 0.02% | 0.004% |
| 7 | 3.684 | 290 | 292 | 293 | rBV2 | 661 | 438 | 0.04% | 0.005% |
| 8 | 3.800 | 309 | 311 | 314 | rBV | 243 | 333 | 0.03% | 0.004% |
| 9 | 3.855 | 319 | 320 | 324 | rVB2 | 447 | 278 | 0.02% | 0.003% |
| 10 | 3.909 | 328 | 329 | 333 | rVB | 348 | 284 | 0.02% | 0.003% |
| 11 | 4.019 | 333 | 347 | 359 | rBV | 128304 | 417148 | 34.05% | 4.925% |
| 12 | 4.385 | 400 | 407 | 419 | rVV3 | 2289 | 6873 | 0.56% | 0.081% |
| 13 | 4.513 | 427 | 428 | 431 | rBV | 358 | 289 | 0.02% | 0.003% |
| 14 | 4.544 | 431 | 433 | 436 | rVB | 313 | 296 | 0.02% | 0.003% |
| 15 | 4.665 | 448 | 453 | 454 | rBV2 | 831 | 872 | 0.07% | 0.010% |
| 16 | 4.763 | 467 | 469 | 471 | rBV | 350 | 264 | 0.02% | 0.003% |
| 17 | 4.861 | 482 | 485 | 486 | rBV2 | 442 | 452 | 0.04% | 0.005% |
| 18 | 4.946 | 486 | 499 | 501 | rBV6 | 5814 | 19083 | 1.56% | 0.225% |
| 19 | 5.171 | 532 | 536 | 537 | rBV2 | 457 | 504 | 0.04% | 0.006% |
| 20 | 5.428 | 569 | 578 | 580 | rBV3 | 2408 | 5061 | 0.41% | 0.060% |
| 21 | 5.623 | 608 | 610 | 614 | rBV2 | 222 | 302 | 0.02% | 0.004% |
| 22 | 5.708 | 623 | 624 | 628 | rVB | 455 | 443 | 0.04% | 0.005% |
| 23 | 5.763 | 628 | 633 | 634 | rBV2 | 790 | 1078 | 0.09% | 0.013% |
| 24 | 5.787 | 634 | 637 | 638 | rBV2 | 836 | 889 | 0.07% | 0.010% |
| 25 | 5.940 | 652 | 662 | 675 | rVB3 | 7128 | 22558 | 1.84% | 0.266% |
| 26 | 6.098 | 686 | 688 | 690 | rBV | 356 | 298 | 0.02% | 0.004% |
| 27 | 6.275 | 715 | 717 | 723 | rVV4 | 445 | 799 | 0.07% | 0.009% |
| 28 | 6.622 | 772 | 774 | 778 | rBV2 | 308 | 292 | 0.02% | 0.003% |
| 29 | 6.708 | 785 | 788 | 789 | rVV | 361 | 257 | 0.02% | 0.003% |
| 30 | 6.744 | 792 | 794 | 799 | rBV2 | 315 | 484 | 0.04% | 0.006% |
| 31 | 6.897 | 813 | 819 | 821 | rBV4 | 1340 | 2338 | 0.19% | 0.028% |
| 32 | 6.970 | 827 | 831 | 833 | rBV2 | 1906 | 2754 | 0.22% | 0.033% |
| 33 | 7.074 | 840 | 848 | 869 | rBV | 53322 | 163613 | 13.35% | 1.932% |
| 34 | 7.250 | 871 | 877 | 886 | rBV2 | 13834 | 33830 | 2.76% | 0.399% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102919\
Data File : VW013819.D
Acq On : 30 Oct 2019 03:24
Operator : SY/VA
Sample : K5549-15
Misc : 4.18G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAQ68

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_W\METHOD\SOM2WLM101819S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 7.647 | 932 | 942 | 955 | rBV | 201945 | 496754 | 40.54% | 5.864% |
| 36 | 7.921 | 981 | 987 | 989 | rBV2 | 4124 | 6476 | 0.53% | 0.076% |
| 37 | 8.159 | 1018 | 1026 | 1033 | rBV2 | 3670 | 7542 | 0.62% | 0.089% |
| 38 | 8.275 | 1035 | 1045 | 1062 | rBV2 | 407501 | 1225194 | 100.00% | 14.464% |
| 39 | 8.689 | 1108 | 1113 | 1122 | rBV3 | 7407 | 15218 | 1.24% | 0.180% |
| 40 | 8.842 | 1126 | 1138 | 1147 | rBV | 298451 | 585727 | 47.81% | 6.915% |
| 41 | 9.037 | 1167 | 1170 | 1173 | rBV3 | 965 | 1363 | 0.11% | 0.016% |
| 42 | 9.207 | 1196 | 1198 | 1201 | rBV | 274 | 304 | 0.02% | 0.004% |
| 43 | 9.274 | 1201 | 1209 | 1216 | rBV | 274977 | 570410 | 46.56% | 6.734% |
| 44 | 9.415 | 1226 | 1232 | 1238 | rVB4 | 2846 | 6165 | 0.50% | 0.073% |
| 45 | 9.518 | 1244 | 1249 | 1253 | rVB4 | 1112 | 1458 | 0.12% | 0.017% |
| 46 | 9.604 | 1259 | 1263 | 1268 | rVB5 | 815 | 1334 | 0.11% | 0.016% |
| 47 | 9.665 | 1268 | 1273 | 1279 | rBV4 | 930 | 2021 | 0.16% | 0.024% |
| 48 | 9.750 | 1283 | 1287 | 1293 | rVB4 | 879 | 1400 | 0.11% | 0.017% |
| 49 | 9.957 | 1315 | 1321 | 1326 | rBV5 | 2454 | 5076 | 0.41% | 0.060% |
| 50 | 10.036 | 1326 | 1334 | 1342 | rBV | 146821 | 270852 | 22.11% | 3.198% |
| 51 | 10.323 | 1370 | 1381 | 1388 | rBV | 571006 | 999805 | 81.60% | 11.803% |
| 52 | 10.445 | 1399 | 1401 | 1404 | rVB2 | 808 | 727 | 0.06% | 0.009% |
| 53 | 10.500 | 1404 | 1410 | 1416 | rBV6 | 5998 | 11116 | 0.91% | 0.131% |
| 54 | 10.579 | 1416 | 1423 | 1431 | rBV | 99382 | 176920 | 14.44% | 2.089% |
| 55 | 10.707 | 1439 | 1444 | 1449 | rVB3 | 8600 | 15245 | 1.24% | 0.180% |
| 56 | 10.859 | 1466 | 1469 | 1473 | rVV4 | 1454 | 1780 | 0.15% | 0.021% |
| 57 | 10.920 | 1473 | 1479 | 1494 | rVV | 213130 | 366559 | 29.92% | 4.327% |
| 58 | 11.073 | 1499 | 1504 | 1513 | rVB2 | 10870 | 20080 | 1.64% | 0.237% |
| 59 | 11.176 | 1517 | 1521 | 1525 | rVV5 | 2303 | 3479 | 0.28% | 0.041% |
| 60 | 11.219 | 1526 | 1528 | 1534 | rVB5 | 1261 | 2225 | 0.18% | 0.026% |
| 61 | 11.268 | 1534 | 1536 | 1542 | rVB3 | 466 | 626 | 0.05% | 0.007% |
| 62 | 11.323 | 1544 | 1545 | 1547 | rBV2 | 759 | 578 | 0.05% | 0.007% |
| 63 | 11.420 | 1557 | 1561 | 1563 | rBV2 | 846 | 1053 | 0.09% | 0.012% |
| 64 | 11.512 | 1574 | 1576 | 1581 | rVB3 | 1175 | 1562 | 0.13% | 0.018% |
| 65 | 11.561 | 1581 | 1584 | 1586 | rBV2 | 295 | 395 | 0.03% | 0.005% |
| 66 | 11.628 | 1588 | 1595 | 1606 | rVV | 409804 | 699252 | 57.07% | 8.255% |
| 67 | 11.731 | 1606 | 1612 | 1617 | rVB2 | 3487 | 6371 | 0.52% | 0.075% |
| 68 | 11.841 | 1623 | 1630 | 1639 | rVB4 | 8957 | 18001 | 1.47% | 0.213% |
| 69 | 11.920 | 1639 | 1643 | 1645 | rBV2 | 615 | 836 | 0.07% | 0.010% |
| 70 | 12.024 | 1659 | 1660 | 1662 | rBV | 303 | 272 | 0.02% | 0.003% |
| 71 | 12.140 | 1673 | 1679 | 1681 | rVV3 | 936 | 1602 | 0.13% | 0.019% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102919\
Data File : VW013819.D
Acq On : 30 Oct 2019 03:24
Operator : SY/VA
Sample : K5549-15
Misc : 4.18G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAQ68

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_W\METHOD\SOM2WLM101819S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.164 | 1681 | 1683 | 1688 | rVB4 | 1689 | 2051 | 0.17% | 0.024% |
| 73 | 12.243 | 1694 | 1696 | 1700 | rVB3 | 1027 | 1247 | 0.10% | 0.015% |
| 74 | 12.335 | 1707 | 1711 | 1724 | rBV7 | 2426 | 5360 | 0.44% | 0.063% |
| 75 | 12.512 | 1738 | 1740 | 1743 | rBV2 | 397 | 503 | 0.04% | 0.006% |
| 76 | 12.609 | 1750 | 1756 | 1761 | rVB2 | 20194 | 32553 | 2.66% | 0.384% |
| 77 | 12.694 | 1762 | 1770 | 1778 | rVB | 264922 | 442421 | 36.11% | 5.223% |
| 78 | 12.810 | 1786 | 1789 | 1791 | rBV2 | 382 | 402 | 0.03% | 0.005% |
| 79 | 12.865 | 1794 | 1798 | 1800 | rBV2 | 907 | 1160 | 0.09% | 0.014% |
| 80 | 12.932 | 1804 | 1809 | 1819 | rVB5 | 1976 | 4048 | 0.33% | 0.048% |
| 81 | 13.091 | 1834 | 1835 | 1837 | rBV2 | 360 | 385 | 0.03% | 0.005% |
| 82 | 13.164 | 1844 | 1847 | 1851 | rVB2 | 628 | 755 | 0.06% | 0.009% |
| 83 | 13.231 | 1855 | 1858 | 1859 | rBV2 | 984 | 847 | 0.07% | 0.010% |
| 84 | 13.347 | 1875 | 1877 | 1879 | rBV2 | 406 | 310 | 0.03% | 0.004% |
| 85 | 13.402 | 1881 | 1886 | 1890 | rVV2 | 1272 | 1730 | 0.14% | 0.020% |
| 86 | 13.469 | 1893 | 1897 | 1901 | rBV4 | 634 | 1007 | 0.08% | 0.012% |
| 87 | 13.554 | 1904 | 1911 | 1919 | rVV | 401691 | 656957 | 53.62% | 7.756% |
| 88 | 13.646 | 1923 | 1926 | 1933 | rVB3 | 4296 | 7595 | 0.62% | 0.090% |
| 89 | 13.792 | 1948 | 1950 | 1952 | rVB2 | 460 | 321 | 0.03% | 0.004% |
| 90 | 13.853 | 1952 | 1960 | 1969 | rBV | 433502 | 698667 | 57.03% | 8.248% |
| 91 | 14.024 | 1986 | 1988 | 1990 | rBV3 | 568 | 518 | 0.04% | 0.006% |
| 92 | 14.072 | 1990 | 1996 | 2005 | rVB3 | 4911 | 8436 | 0.69% | 0.100% |
| 93 | 14.188 | 2013 | 2015 | 2017 | rBV2 | 579 | 518 | 0.04% | 0.006% |
| 94 | 14.292 | 2029 | 2032 | 2033 | rBV | 578 | 516 | 0.04% | 0.006% |
| 95 | 14.328 | 2035 | 2038 | 2044 | rVB7 | 1872 | 2567 | 0.21% | 0.030% |
| 96 | 14.420 | 2051 | 2053 | 2058 | rVB2 | 1504 | 1619 | 0.13% | 0.019% |
| 97 | 14.523 | 2066 | 2070 | 2073 | rVB4 | 870 | 1505 | 0.12% | 0.018% |
| 98 | 15.145 | 2168 | 2172 | 2175 | rBV5 | 845 | 1289 | 0.11% | 0.015% |
| 99 | 15.267 | 2190 | 2192 | 2194 | rBV3 | 586 | 320 | 0.03% | 0.004% |
| 100 | 15.749 | 2269 | 2271 | 2273 | rBV2 | 764 | 398 | 0.03% | 0.005% |

Sum of corrected areas: 8470640

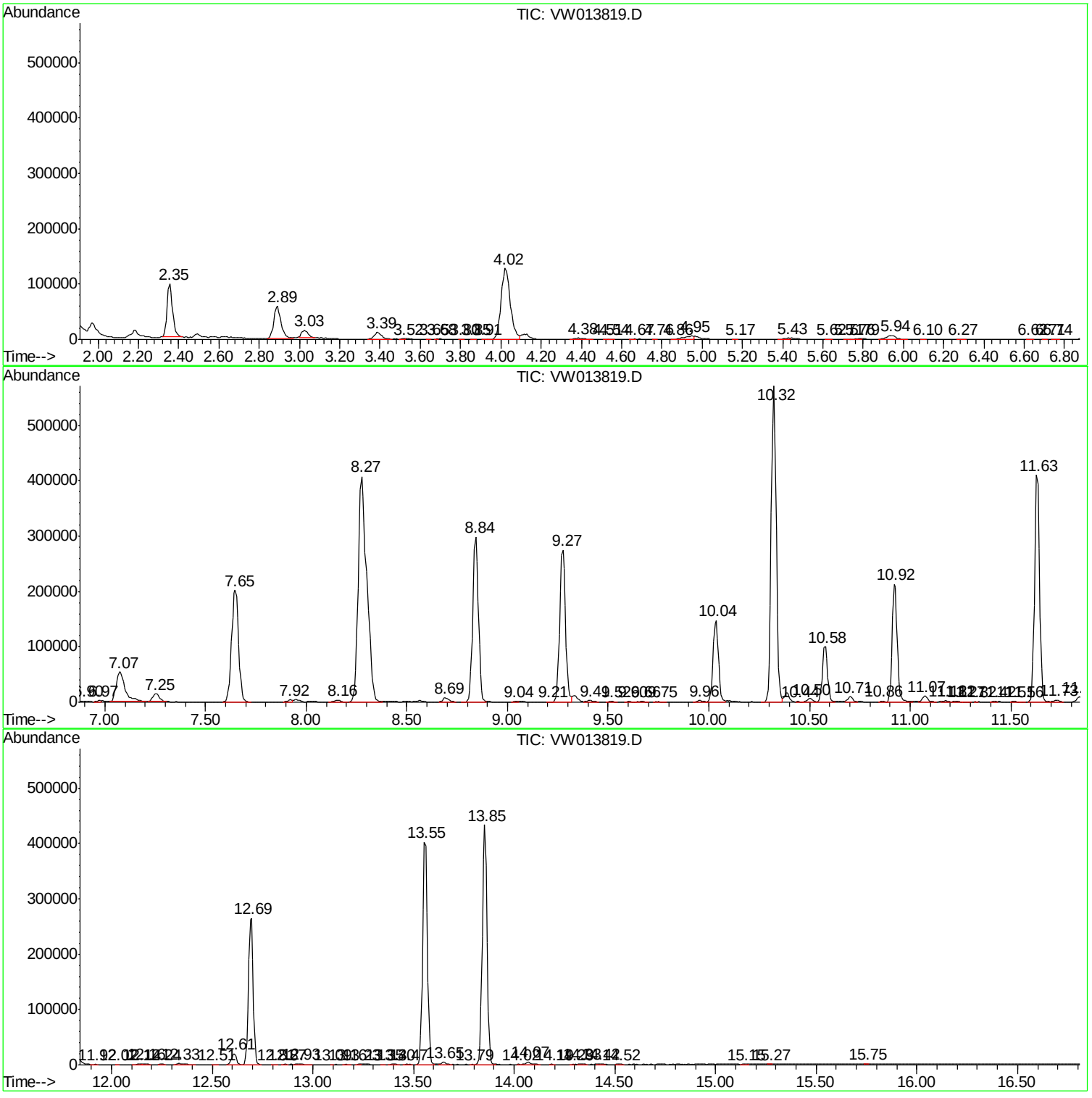
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102919\
Data File : VW013819.D
Acq On : 30 Oct 2019 03:24
Operator : SY/VA
Sample : K5549-15
Misc : 4.18G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAQ68

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.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_W\DATA\VW102919\
Data File : VW013819.D
Acq On : 30 Oct 2019 03:24
Operator : SY/VA
Sample : K5549-15
Misc : 4.18G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAQ68

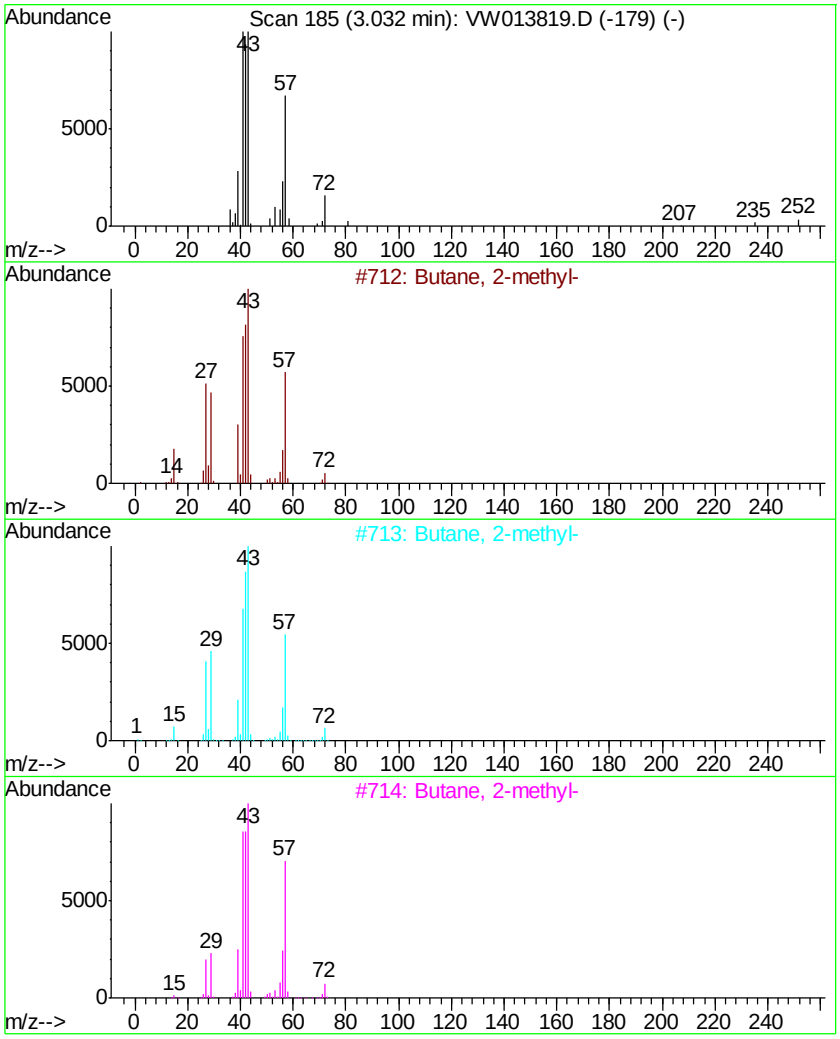
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
Quant Title : VOC Analysis

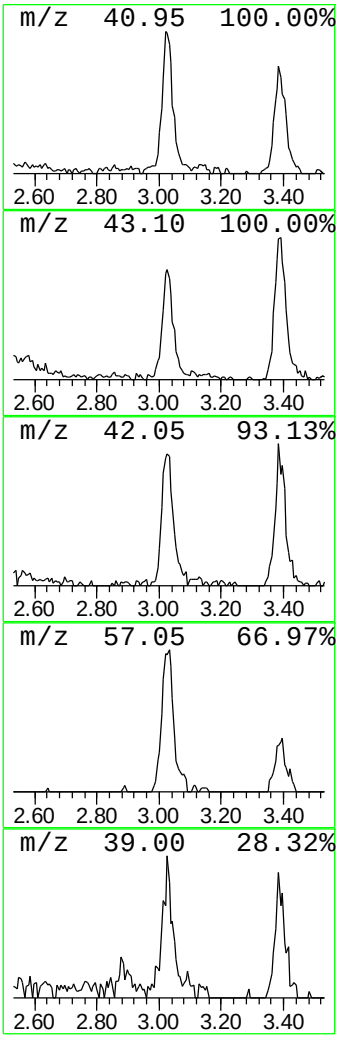
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.03 | 1.39 ug/L | 32495 | 1,4-Difluorobenzene | 8.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 86 |
| 2 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 86 |
| 3 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 80 |
| 4 | 3-Buten-1-ol | 72 | C4H8O | 000627-27-0 | 38 |
| 5 | 3-Buten-1-ol | 72 | C4H8O | 000627-27-0 | 37 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102919\
Data File : VW013819.D
Acq On : 30 Oct 2019 03:24
Operator : SY/VA
Sample : K5549-15
Misc : 4.18G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAQ68

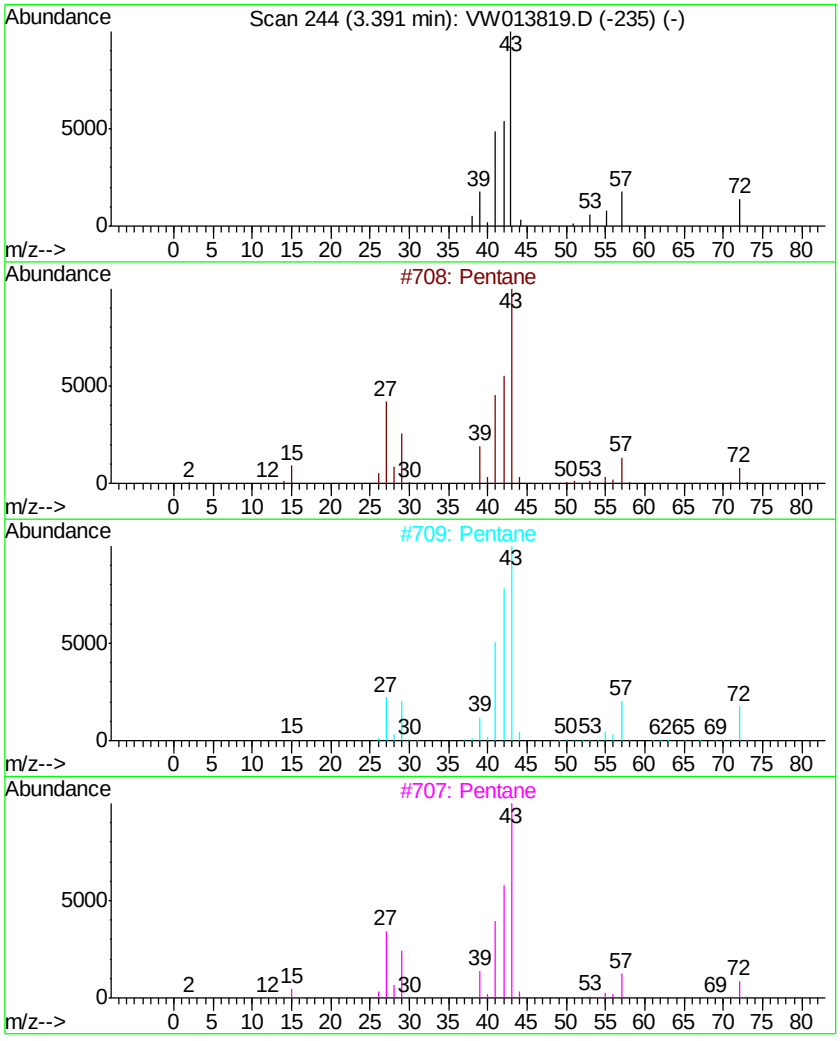
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
Quant Title : VOC Analysis

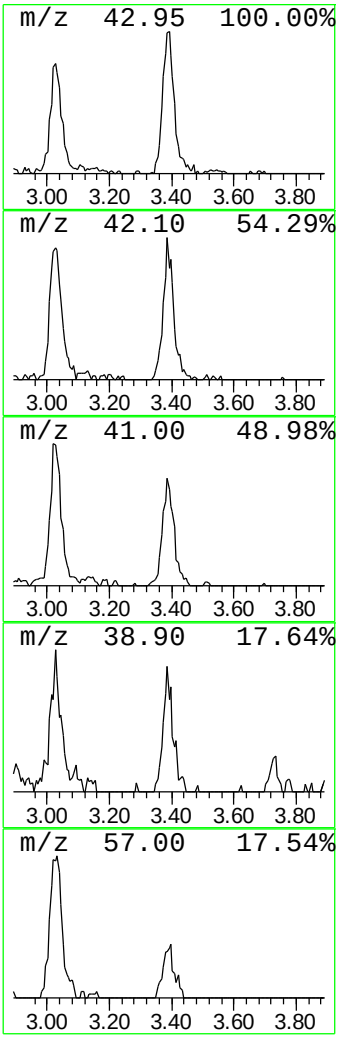
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.39 | 1.34 ug/L | 31281 | 1,4-Difluorobenzene | 8.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane | 72 | C5H12 | 000109-66-0 | 90 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 90 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 90 |
| 4 | Pentane | 72 | C5H12 | 000109-66-0 | 86 |
| 5 | Oxirane, ethyl- | 72 | C4H8O | 000106-88-7 | 47 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW102919\
Data File : VW013819.D
Acq On : 30 Oct 2019 03:24
Operator : SY/VA
Sample : K5549-15
Misc : 4.18G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAQ68

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
Quant Title : VOC Analysis

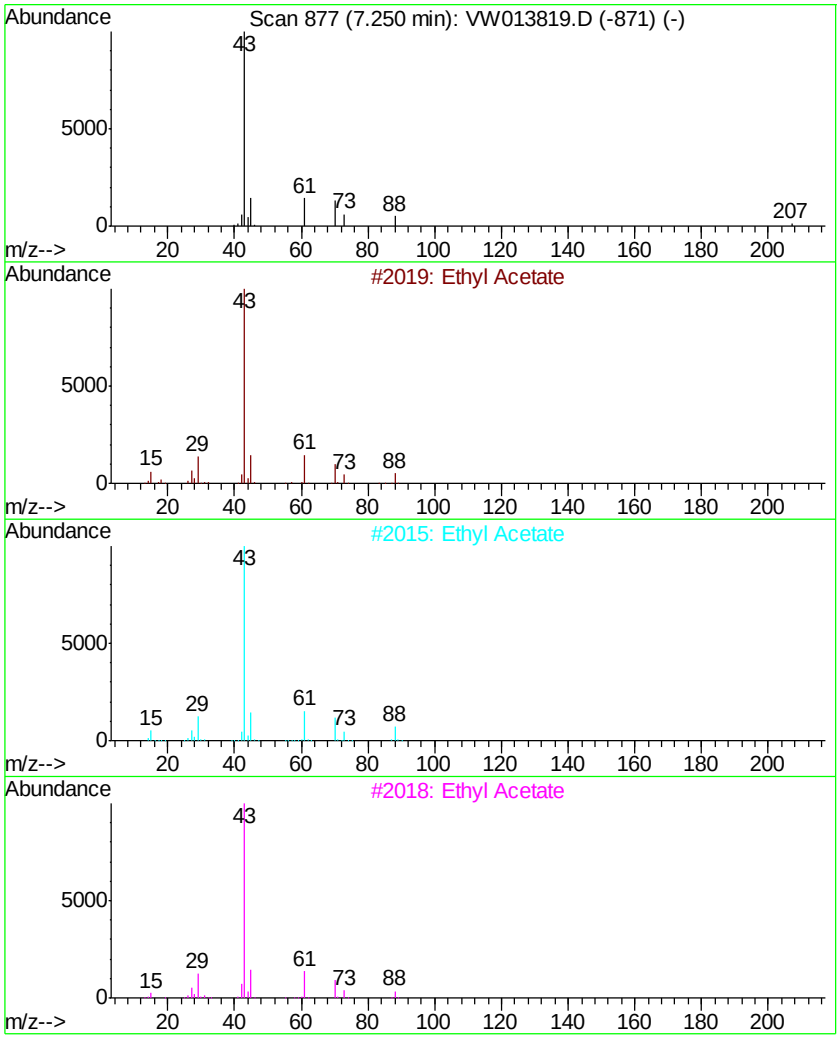
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

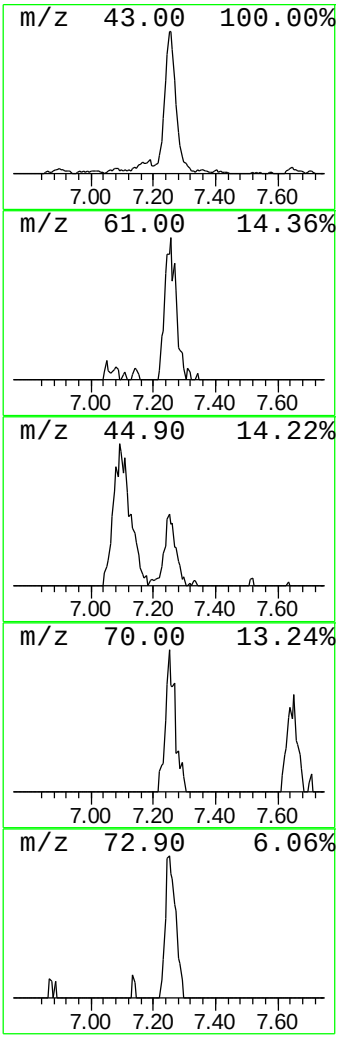
**********

Peak Number 3 Ethyl Acetate Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.25 | 1.44 ug/L | 33830 | 1,4-Difluorobenzene | 8.84 |

| 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 | 90 |
| 3 | Ethyl Acetate | 88 | C4H8O2 | 000141-78-6 | 86 |
| 4 | CH3C(O)CH2CH2OH | 88 | C4H8O2 | 000590-90-9 | 53 |
| 5 | Ethyl Acetate | 88 | C4H8O2 | 000141-78-6 | 45 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW102919\
Data File : VW013819.D
Acq On : 30 Oct 2019 03:24
Operator : SY/VA
Sample : K5549-15
Misc : 4.18G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAQ68

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.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... | 3.03 | 1.4 | ug/L | 32495 | 1 | 8.84 | 585727 | 25.0 |
| (DEL) Alkane: Str... | 3.39 | 1.3 | ug/L | 31281 | 1 | 8.84 | 585727 | 25.0 |
| Ethyl Acetate | 7.25 | 1.4 | ug/L | 33830 | 1 | 8.84 | 585727 | 25.0 |