LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102919\
Data File : VW013809.D
Acq On : 29 Oct 2019 23:01
Operator : SY/VA
Sample : K5565-05
Misc : 6.00G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** JLNA4

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 | 2.160 | 38 | 42 | 54 | rVB2 | 13473 | 26820 | 2.07% | 0.289% |
| 2 | 2.355 | 68 | 74 | 88 | rVB | 88451 | 163909 | 12.66% | 1.765% |
| 3 | 2.892 | 154 | 162 | 174 | rBV | 59560 | 147759 | 11.42% | 1.591% |
| 4 | 3.239 | 217 | 219 | 223 | rVB2 | 498 | 440 | 0.03% | 0.005% |
| 5 | 3.306 | 228 | 230 | 233 | rVB2 | 299 | 330 | 0.03% | 0.004% |
| 6 | 3.355 | 236 | 238 | 239 | rBV2 | 294 | 204 | 0.02% | 0.002% |
| 7 | 3.391 | 242 | 244 | 246 | rVB | 452 | 367 | 0.03% | 0.004% |
| 8 | 3.459 | 253 | 255 | 258 | rBV3 | 402 | 616 | 0.05% | 0.007% |
| 9 | 3.684 | 288 | 292 | 294 | rVB3 | 663 | 784 | 0.06% | 0.008% |
| 10 | 3.769 | 305 | 306 | 309 | rVB2 | 266 | 214 | 0.02% | 0.002% |
| 11 | 3.855 | 318 | 320 | 325 | rVB | 305 | 422 | 0.03% | 0.005% |
| 12 | 3.928 | 329 | 332 | 333 | rBV2 | 257 | 231 | 0.02% | 0.002% |
| 13 | 4.019 | 335 | 347 | 360 | rBV2 | 134878 | 437502 | 33.80% | 4.711% |
| 14 | 4.324 | 396 | 397 | 399 | rBV | 201 | 204 | 0.02% | 0.002% |
| 15 | 4.391 | 399 | 408 | 414 | rVV3 | 1803 | 5509 | 0.43% | 0.059% |
| 16 | 4.611 | 442 | 444 | 446 | rBV | 261 | 199 | 0.02% | 0.002% |
| 17 | 4.745 | 465 | 466 | 469 | rBV2 | 296 | 237 | 0.02% | 0.003% |
| 18 | 4.781 | 471 | 472 | 474 | rBV2 | 242 | 204 | 0.02% | 0.002% |
| 19 | 4.818 | 477 | 478 | 479 | rBV | 445 | 201 | 0.02% | 0.002% |
| 20 | 4.922 | 482 | 495 | 508 | rBV2 | 10361 | 37410 | 2.89% | 0.403% |
| 21 | 5.092 | 521 | 523 | 525 | rBV2 | 300 | 336 | 0.03% | 0.004% |
| 22 | 5.172 | 535 | 536 | 539 | rBV | 428 | 254 | 0.02% | 0.003% |
| 23 | 5.245 | 547 | 548 | 551 | rBV | 273 | 223 | 0.02% | 0.002% |
| 24 | 5.367 | 565 | 568 | 569 | rBV | 302 | 283 | 0.02% | 0.003% |
| 25 | 5.562 | 598 | 600 | 603 | rBV2 | 240 | 292 | 0.02% | 0.003% |
| 26 | 5.623 | 608 | 610 | 614 | rVV2 | 237 | 294 | 0.02% | 0.003% |
| 27 | 5.940 | 654 | 662 | 666 | rBV5 | 3057 | 7723 | 0.60% | 0.083% |
| 28 | 6.147 | 694 | 696 | 700 | rBV2 | 193 | 219 | 0.02% | 0.002% |
| 29 | 6.470 | 747 | 749 | 751 | rVB | 350 | 221 | 0.02% | 0.002% |
| 30 | 6.507 | 751 | 755 | 756 | rBV2 | 182 | 233 | 0.02% | 0.003% |
| 31 | 6.610 | 771 | 772 | 775 | rBV2 | 279 | 283 | 0.02% | 0.003% |
| 32 | 6.879 | 813 | 816 | 819 | rBV2 | 276 | 354 | 0.03% | 0.004% |
| 33 | 7.080 | 840 | 849 | 853 | rBV2 | 38081 | 103882 | 8.03% | 1.119% |
| 34 | 7.446 | 908 | 909 | 912 | rVB2 | 312 | 234 | 0.02% | 0.003% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102919\
Data File : VW013809.D
Acq On : 29 Oct 2019 23:01
Operator : SY/VA
Sample : K5565-05
Misc : 6.00G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** JLNA4

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 | 7.494 | 915 | 917 | 919 | rVV2 | 298 | 243 | 0.02% | 0.003% |
| 36 | 7.537 | 921 | 924 | 926 | rBV | 487 | 354 | 0.03% | 0.004% |
| 37 | 7.647 | 931 | 942 | 954 | rBV2 | 213064 | 525868 | 40.63% | 5.662% |
| 38 | 8.135 | 1020 | 1022 | 1024 | rBV2 | 308 | 237 | 0.02% | 0.003% |
| 39 | 8.195 | 1031 | 1032 | 1034 | rBV | 246 | 229 | 0.02% | 0.002% |
| 40 | 8.275 | 1034 | 1045 | 1061 | rVV2 | 440080 | 1294317 | 100.00% | 13.936% |
| 41 | 8.634 | 1102 | 1104 | 1107 | rVB | 584 | 408 | 0.03% | 0.004% |
| 42 | 8.708 | 1109 | 1116 | 1120 | rBV4 | 593 | 1355 | 0.10% | 0.015% |
| 43 | 8.842 | 1129 | 1138 | 1152 | rBV | 357020 | 703018 | 54.32% | 7.570% |
| 44 | 8.933 | 1152 | 1153 | 1156 | rVB2 | 518 | 381 | 0.03% | 0.004% |
| 45 | 9.049 | 1166 | 1172 | 1173 | rVV3 | 818 | 1139 | 0.09% | 0.012% |
| 46 | 9.067 | 1173 | 1175 | 1183 | rVB3 | 1711 | 3030 | 0.23% | 0.033% |
| 47 | 9.275 | 1200 | 1209 | 1224 | rBV | 302223 | 604059 | 46.67% | 6.504% |
| 48 | 9.549 | 1252 | 1254 | 1257 | rBV2 | 296 | 288 | 0.02% | 0.003% |
| 49 | 9.585 | 1257 | 1260 | 1262 | rBV3 | 593 | 680 | 0.05% | 0.007% |
| 50 | 9.659 | 1267 | 1272 | 1277 | rVV3 | 920 | 1441 | 0.11% | 0.016% |
| 51 | 9.854 | 1302 | 1304 | 1305 | rBV | 327 | 306 | 0.02% | 0.003% |
| 52 | 9.866 | 1305 | 1306 | 1310 | rVB | 384 | 247 | 0.02% | 0.003% |
| 53 | 9.903 | 1310 | 1312 | 1316 | rVB2 | 268 | 327 | 0.03% | 0.004% |
| 54 | 9.933 | 1316 | 1317 | 1320 | rBV | 239 | 202 | 0.02% | 0.002% |
| 55 | 10.037 | 1326 | 1334 | 1347 | rVV | 148409 | 274358 | 21.20% | 2.954% |
| 56 | 10.195 | 1357 | 1360 | 1361 | rBV2 | 315 | 236 | 0.02% | 0.003% |
| 57 | 10.213 | 1361 | 1363 | 1367 | rVV2 | 715 | 807 | 0.06% | 0.009% |
| 58 | 10.323 | 1373 | 1381 | 1388 | rBV | 632557 | 1112628 | 85.96% | 11.980% |
| 59 | 10.488 | 1403 | 1408 | 1409 | rBV2 | 820 | 1156 | 0.09% | 0.012% |
| 60 | 10.579 | 1415 | 1423 | 1434 | rBV | 95768 | 167622 | 12.95% | 1.805% |
| 61 | 10.701 | 1436 | 1443 | 1450 | rBV | 49515 | 88192 | 6.81% | 0.950% |
| 62 | 10.829 | 1462 | 1464 | 1465 | rBV2 | 604 | 565 | 0.04% | 0.006% |
| 63 | 10.860 | 1466 | 1469 | 1473 | rVB4 | 1409 | 1755 | 0.14% | 0.019% |
| 64 | 10.921 | 1473 | 1479 | 1492 | rBV | 149412 | 255946 | 19.77% | 2.756% |
| 65 | 11.067 | 1497 | 1503 | 1513 | rVB | 17702 | 31488 | 2.43% | 0.339% |
| 66 | 11.177 | 1516 | 1521 | 1525 | rBV3 | 1317 | 1944 | 0.15% | 0.021% |
| 67 | 11.378 | 1551 | 1554 | 1555 | rBV2 | 308 | 283 | 0.02% | 0.003% |
| 68 | 11.439 | 1558 | 1564 | 1572 | rVB | 16526 | 27112 | 2.09% | 0.292% |
| 69 | 11.518 | 1575 | 1577 | 1582 | rVB3 | 309 | 356 | 0.03% | 0.004% |
| 70 | 11.628 | 1587 | 1595 | 1604 | rBV | 497308 | 852174 | 65.84% | 9.176% |
| 71 | 11.780 | 1618 | 1620 | 1622 | rVB | 419 | 326 | 0.03% | 0.004% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102919\
Data File : VW013809.D
Acq On : 29 Oct 2019 23:01
Operator : SY/VA
Sample : K5565-05
Misc : 6.00G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** JLNA4

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 | 11.829 | 1622 | 1628 | 1632 | rBV6 | 1888 | 3910 | 0.30% | 0.042% |
| 73 | 11.933 | 1644 | 1645 | 1648 | rBV3 | 592 | 324 | 0.03% | 0.003% |
| 74 | 12.006 | 1653 | 1657 | 1659 | rBV3 | 491 | 870 | 0.07% | 0.009% |
| 75 | 12.128 | 1675 | 1677 | 1678 | rVB | 470 | 201 | 0.02% | 0.002% |
| 76 | 12.146 | 1678 | 1680 | 1681 | rBV2 | 645 | 483 | 0.04% | 0.005% |
| 77 | 12.298 | 1703 | 1705 | 1706 | rVB2 | 448 | 264 | 0.02% | 0.003% |
| 78 | 12.365 | 1709 | 1716 | 1722 | rVB6 | 2399 | 5331 | 0.41% | 0.057% |
| 79 | 12.463 | 1727 | 1732 | 1738 | rVB3 | 5431 | 8126 | 0.63% | 0.087% |
| 80 | 12.506 | 1738 | 1739 | 1740 | rBV | 479 | 244 | 0.02% | 0.003% |
| 81 | 12.609 | 1749 | 1756 | 1762 | rBV2 | 59127 | 98886 | 7.64% | 1.065% |
| 82 | 12.689 | 1762 | 1769 | 1778 | rVV | 222880 | 375432 | 29.01% | 4.042% |
| 83 | 12.829 | 1788 | 1792 | 1796 | rVB5 | 1948 | 2832 | 0.22% | 0.030% |
| 84 | 12.932 | 1799 | 1809 | 1817 | rVB5 | 16073 | 41841 | 3.23% | 0.451% |
| 85 | 13.048 | 1821 | 1828 | 1839 | rVB3 | 23783 | 45217 | 3.49% | 0.487% |
| 86 | 13.292 | 1864 | 1868 | 1873 | rVB2 | 8704 | 13619 | 1.05% | 0.147% |
| 87 | 13.353 | 1876 | 1878 | 1879 | rBV | 268 | 270 | 0.02% | 0.003% |
| 88 | 13.402 | 1880 | 1886 | 1892 | rBV5 | 2642 | 4964 | 0.38% | 0.053% |
| 89 | 13.463 | 1892 | 1896 | 1900 | rBV3 | 3003 | 5636 | 0.44% | 0.061% |
| 90 | 13.554 | 1905 | 1911 | 1922 | rVV | 531464 | 877898 | 67.83% | 9.453% |
| 91 | 13.652 | 1923 | 1927 | 1933 | rVB3 | 6812 | 10795 | 0.83% | 0.116% |
| 92 | 13.762 | 1941 | 1945 | 1948 | rBV5 | 3387 | 5057 | 0.39% | 0.054% |
| 93 | 13.853 | 1953 | 1960 | 1967 | rBV | 513261 | 826329 | 63.84% | 8.897% |
| 94 | 14.072 | 1991 | 1996 | 2004 | rVB2 | 18739 | 29282 | 2.26% | 0.315% |
| 95 | 14.329 | 2031 | 2038 | 2043 | rBV9 | 4410 | 10087 | 0.78% | 0.109% |
| 96 | 14.414 | 2050 | 2052 | 2053 | rBV2 | 736 | 570 | 0.04% | 0.006% |
| 97 | 14.621 | 2084 | 2086 | 2088 | rBV2 | 549 | 459 | 0.04% | 0.005% |
| 98 | 14.719 | 2100 | 2102 | 2106 | rVB4 | 1669 | 2067 | 0.16% | 0.022% |
| 99 | 15.438 | 2215 | 2220 | 2224 | rVB2 | 14598 | 22473 | 1.74% | 0.242% |
| 100 | 16.621 | 2413 | 2414 | 2415 | rBV | 733 | 353 | 0.03% | 0.004% |

Sum of corrected areas: 9287290

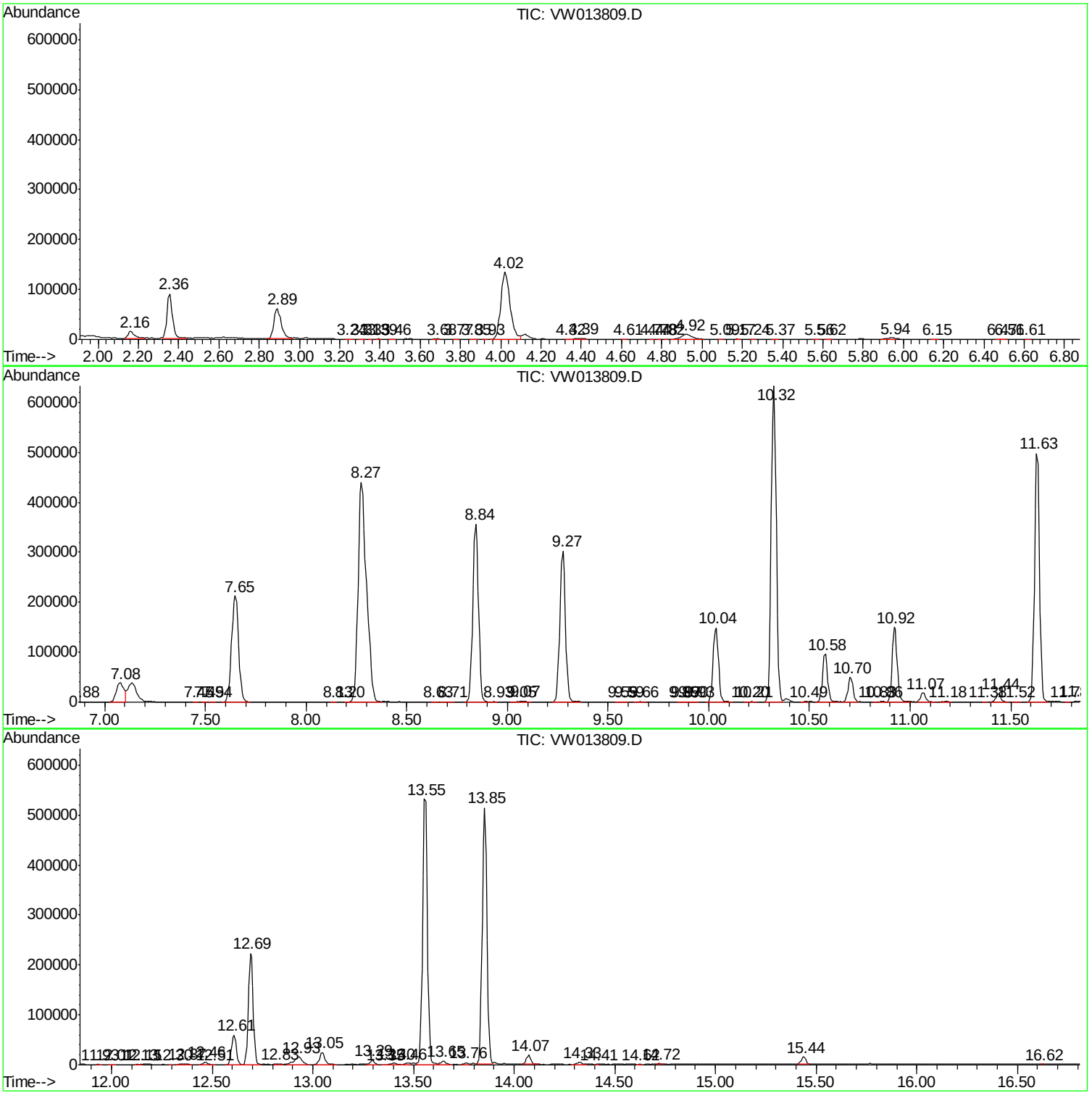
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW102919\
Data File : VW013809.D
Acq On : 29 Oct 2019 23:01
Operator : SY/VA
Sample : K5565-05
Misc : 6.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** JLNA4

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 : VW013809.D
Acq On : 29 Oct 2019 23:01
Operator : SY/VA
Sample : K5565-05
Misc : 6.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** JLNA4

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

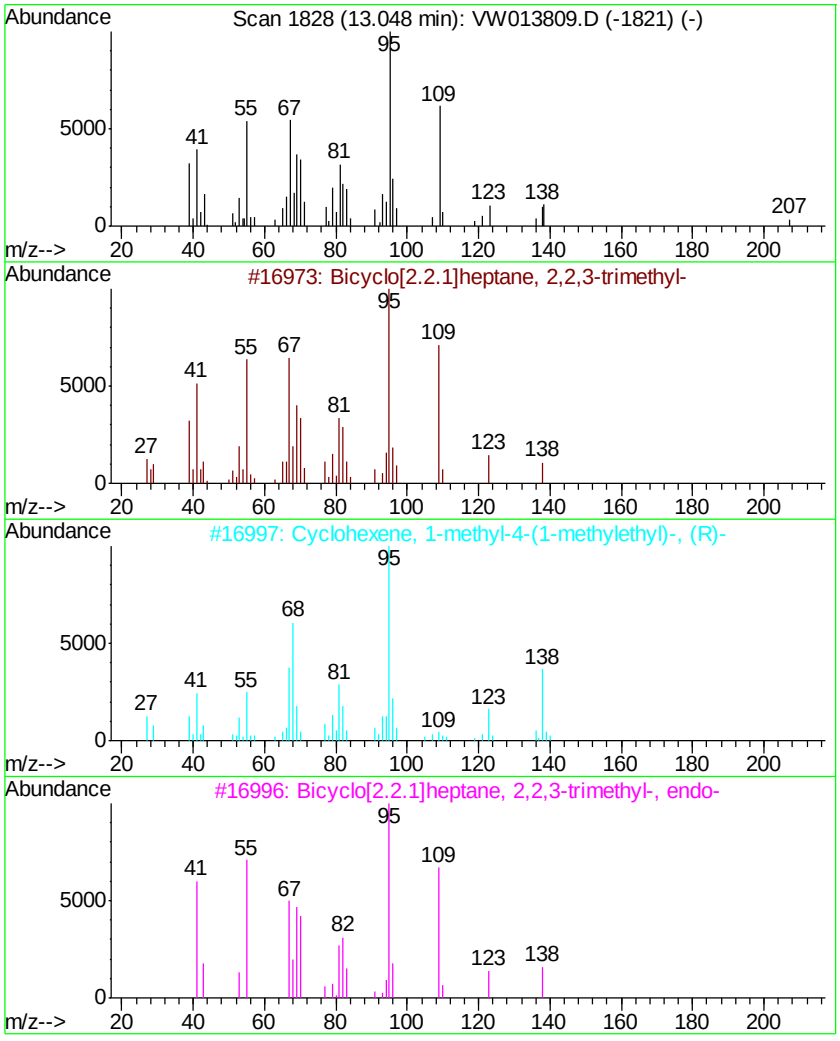
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

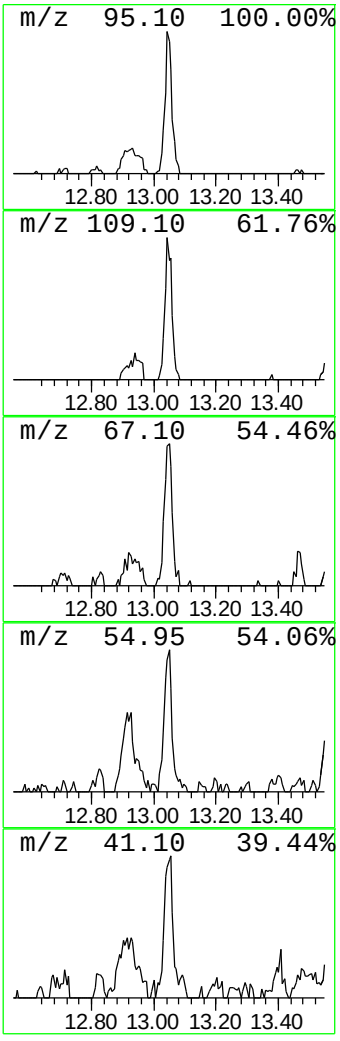
**********

Peak Number 5 Bicyclo[2.2.1]heptane, 2,2,... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.05 | 1.29 ug/L | 45217 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[2.2.1]heptane, 2,2,3-tri... | 138 | C10H18 | 000473-19-8 | 83 |
| 2 | Cyclohexene, 1-methyl-4-(1-methy... | 138 | C10H18 | 001195-31-9 | 81 |
| 3 | Bicyclo[2.2.1]heptane, 2,2,3-tri... | 138 | C10H18 | 020536-40-7 | 72 |
| 4 | Cyclohexene, 3-methyl-6-(1-methy... | 138 | C10H18 | 001124-26-1 | 68 |
| 5 | Bicyclo[2.2.1]heptane, 2,2,3-tri... | 138 | C10H18 | 020536-41-8 | 64 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW102919\
Data File : VW013809.D
Acq On : 29 Oct 2019 23:01
Operator : SY/VA
Sample : K5565-05
Misc : 6.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** JLNA4

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 |
| Bicyclo[2.2.1]hep... | 13.05 | 1.3 | ug/L | 45217 | 3 | 13.56 | 877898 | 25.0 |