LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW050119\
Data File : VW010252.D
Acq On : 01 May 2019 18:43
Operator : SY/VA
Sample : K2604-08
Misc : 5.10G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAJ82

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\SOM2WLM042919S.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 | 48 | rBV4 | 9535 | 20995 | 1.16% | 0.156% |
| 2 | 2.361 | 69 | 75 | 87 | rVB | 63862 | 154962 | 8.59% | 1.155% |
| 3 | 2.898 | 156 | 163 | 175 | rVB2 | 53603 | 153389 | 8.51% | 1.143% |
| 4 | 3.757 | 302 | 304 | 305 | rVB | 1443 | 675 | 0.04% | 0.005% |
| 5 | 3.849 | 316 | 319 | 320 | rBV2 | 1168 | 1141 | 0.06% | 0.009% |
| 6 | 4.013 | 335 | 346 | 362 | rBV2 | 110178 | 402954 | 22.35% | 3.002% |
| 7 | 4.343 | 397 | 400 | 401 | rBV2 | 689 | 641 | 0.04% | 0.005% |
| 8 | 4.397 | 403 | 409 | 418 | rVV2 | 5703 | 14588 | 0.81% | 0.109% |
| 9 | 4.580 | 438 | 439 | 444 | rVB2 | 651 | 579 | 0.03% | 0.004% |
| 10 | 4.635 | 446 | 448 | 451 | rBV | 628 | 816 | 0.05% | 0.006% |
| 11 | 4.769 | 467 | 470 | 472 | rBV2 | 382 | 539 | 0.03% | 0.004% |
| 12 | 4.909 | 484 | 493 | 496 | rBV6 | 5922 | 14847 | 0.82% | 0.111% |
| 13 | 4.989 | 504 | 506 | 509 | rVB | 935 | 703 | 0.04% | 0.005% |
| 14 | 5.166 | 532 | 535 | 536 | rBV2 | 421 | 539 | 0.03% | 0.004% |
| 15 | 5.196 | 538 | 540 | 543 | rVB2 | 625 | 570 | 0.03% | 0.004% |
| 16 | 5.422 | 572 | 577 | 580 | rBV3 | 784 | 1383 | 0.08% | 0.010% |
| 17 | 5.726 | 622 | 627 | 629 | rBV3 | 652 | 1003 | 0.06% | 0.007% |
| 18 | 5.934 | 653 | 661 | 663 | rBV4 | 1582 | 3421 | 0.19% | 0.025% |
| 19 | 6.153 | 695 | 697 | 701 | rBV2 | 560 | 642 | 0.04% | 0.005% |
| 20 | 6.208 | 701 | 706 | 708 | rBV2 | 744 | 876 | 0.05% | 0.007% |
| 21 | 6.232 | 708 | 710 | 714 | rVB3 | 643 | 882 | 0.05% | 0.007% |
| 22 | 6.275 | 714 | 717 | 721 | rVB3 | 491 | 732 | 0.04% | 0.005% |
| 23 | 6.348 | 726 | 729 | 730 | rBV | 840 | 811 | 0.04% | 0.006% |
| 24 | 6.421 | 738 | 741 | 743 | rBV2 | 551 | 581 | 0.03% | 0.004% |
| 25 | 6.495 | 751 | 753 | 755 | rBV | 861 | 641 | 0.04% | 0.005% |
| 26 | 6.549 | 759 | 762 | 766 | rVB3 | 520 | 729 | 0.04% | 0.005% |
| 27 | 6.836 | 806 | 809 | 812 | rVB2 | 437 | 521 | 0.03% | 0.004% |
| 28 | 7.080 | 840 | 849 | 864 | rBV | 62316 | 174368 | 9.67% | 1.299% |
| 29 | 7.257 | 872 | 878 | 879 | rBV2 | 2942 | 3957 | 0.22% | 0.029% |
| 30 | 7.293 | 882 | 884 | 886 | rVB2 | 1095 | 909 | 0.05% | 0.007% |
| 31 | 7.318 | 886 | 888 | 892 | rVB2 | 816 | 1125 | 0.06% | 0.008% |
| 32 | 7.360 | 892 | 895 | 897 | rBV2 | 567 | 720 | 0.04% | 0.005% |
| 33 | 7.488 | 912 | 916 | 917 | rBV | 649 | 747 | 0.04% | 0.006% |
| 34 | 7.647 | 930 | 942 | 955 | rBV | 266186 | 652445 | 36.19% | 4.861% |

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Sample : K2604-08
Misc : 5.10G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAJ82

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\SOM2WLM042919S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 7.750 | 955 | 959 | 962 | rVB2 | 468 | 582 | 0.03% | 0.004% |
| 36 | 7.860 | 973 | 977 | 978 | rBV3 | 623 | 703 | 0.04% | 0.005% |
| 37 | 8.067 | 1009 | 1011 | 1012 | rBV | 1145 | 805 | 0.04% | 0.006% |
| 38 | 8.275 | 1034 | 1045 | 1061 | rBV2 | 460226 | 1423567 | 78.96% | 10.606% |
| 39 | 8.391 | 1061 | 1064 | 1069 | rVB5 | 1424 | 1877 | 0.10% | 0.014% |
| 40 | 8.622 | 1099 | 1102 | 1105 | rVB3 | 895 | 1203 | 0.07% | 0.009% |
| 41 | 8.677 | 1108 | 1111 | 1114 | rBV3 | 665 | 858 | 0.05% | 0.006% |
| 42 | 8.842 | 1129 | 1138 | 1150 | rBV | 596879 | 1161999 | 64.45% | 8.657% |
| 43 | 8.982 | 1159 | 1161 | 1165 | rBV3 | 549 | 783 | 0.04% | 0.006% |
| 44 | 9.031 | 1165 | 1169 | 1171 | rBV2 | 2523 | 3103 | 0.17% | 0.023% |
| 45 | 9.153 | 1187 | 1189 | 1192 | rBV2 | 633 | 662 | 0.04% | 0.005% |
| 46 | 9.275 | 1199 | 1209 | 1218 | rBV | 350639 | 709251 | 39.34% | 5.284% |
| 47 | 9.592 | 1260 | 1261 | 1266 | rBV | 519 | 806 | 0.04% | 0.006% |
| 48 | 9.659 | 1266 | 1272 | 1276 | rBV4 | 2463 | 4528 | 0.25% | 0.034% |
| 49 | 9.744 | 1283 | 1286 | 1290 | rBV3 | 1210 | 1475 | 0.08% | 0.011% |
| 50 | 9.890 | 1304 | 1310 | 1316 | rBV5 | 2963 | 5925 | 0.33% | 0.044% |
| 51 | 10.037 | 1326 | 1334 | 1342 | rBV | 187867 | 339341 | 18.82% | 2.528% |
| 52 | 10.116 | 1345 | 1347 | 1348 | rBV2 | 532 | 505 | 0.03% | 0.004% |
| 53 | 10.195 | 1358 | 1360 | 1361 | rBV | 779 | 647 | 0.04% | 0.005% |
| 54 | 10.213 | 1361 | 1363 | 1365 | rVV2 | 1049 | 1062 | 0.06% | 0.008% |
| 55 | 10.244 | 1365 | 1368 | 1371 | rVV4 | 2278 | 2772 | 0.15% | 0.021% |
| 56 | 10.323 | 1373 | 1381 | 1388 | rVV | 636828 | 1131170 | 62.74% | 8.428% |
| 57 | 10.384 | 1388 | 1391 | 1400 | rVB3 | 7297 | 13177 | 0.73% | 0.098% |
| 58 | 10.524 | 1412 | 1414 | 1416 | rVB | 498 | 503 | 0.03% | 0.004% |
| 59 | 10.579 | 1416 | 1423 | 1434 | rBV | 128314 | 228088 | 12.65% | 1.699% |
| 60 | 10.701 | 1437 | 1443 | 1449 | rBV2 | 8916 | 16701 | 0.93% | 0.124% |
| 61 | 10.744 | 1449 | 1450 | 1452 | rBV2 | 1266 | 1288 | 0.07% | 0.010% |
| 62 | 10.847 | 1463 | 1467 | 1473 | rBV7 | 2823 | 6489 | 0.36% | 0.048% |
| 63 | 10.927 | 1473 | 1480 | 1489 | rBV | 344487 | 574304 | 31.85% | 4.279% |
| 64 | 11.067 | 1499 | 1503 | 1507 | rBV5 | 7042 | 11575 | 0.64% | 0.086% |
| 65 | 11.152 | 1515 | 1517 | 1518 | rBV2 | 1022 | 699 | 0.04% | 0.005% |
| 66 | 11.341 | 1546 | 1548 | 1550 | rBV3 | 1216 | 1496 | 0.08% | 0.011% |
| 67 | 11.396 | 1555 | 1557 | 1558 | rBV | 1506 | 982 | 0.05% | 0.007% |
| 68 | 11.500 | 1572 | 1574 | 1576 | rBV | 1539 | 1887 | 0.10% | 0.014% |
| 69 | 11.579 | 1584 | 1587 | 1588 | rBV3 | 2112 | 2264 | 0.13% | 0.017% |
| 70 | 11.628 | 1588 | 1595 | 1603 | rBV | 1056331 | 1802972 | 100.00% | 13.433% |
| 71 | 12.170 | 1682 | 1684 | 1692 | rVB5 | 7597 | 12856 | 0.71% | 0.096% |

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Misc : 5.10G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAJ82

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\SOM2WLM042919S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.244 | 1694 | 1696 | 1697 | rVB2 | 2033 | 1241 | 0.07% | 0.009% |
| 73 | 12.305 | 1702 | 1706 | 1708 | rBV4 | 1328 | 1768 | 0.10% | 0.013% |
| 74 | 12.335 | 1709 | 1711 | 1712 | rBV2 | 1952 | 1124 | 0.06% | 0.008% |
| 75 | 12.469 | 1727 | 1733 | 1738 | rBV8 | 4934 | 7435 | 0.41% | 0.055% |
| 76 | 12.609 | 1750 | 1756 | 1763 | rBV | 46856 | 79835 | 4.43% | 0.595% |
| 77 | 12.695 | 1763 | 1770 | 1778 | rVB | 408988 | 647098 | 35.89% | 4.821% |
| 78 | 13.188 | 1850 | 1851 | 1856 | rVB4 | 2298 | 2830 | 0.16% | 0.021% |
| 79 | 13.256 | 1858 | 1862 | 1863 | rBV3 | 3631 | 3723 | 0.21% | 0.028% |
| 80 | 13.329 | 1866 | 1874 | 1881 | rBV7 | 11774 | 40461 | 2.24% | 0.301% |
| 81 | 13.560 | 1906 | 1912 | 1924 | rVB | 1018902 | 1594302 | 88.43% | 11.878% |
| 82 | 13.652 | 1925 | 1927 | 1932 | rVB5 | 4939 | 4951 | 0.27% | 0.037% |
| 83 | 13.853 | 1953 | 1960 | 1967 | rBV | 796633 | 1344462 | 74.57% | 10.017% |
| 84 | 14.079 | 1992 | 1997 | 2005 | rVB2 | 34347 | 56849 | 3.15% | 0.424% |
| 85 | 14.329 | 2034 | 2038 | 2047 | rVB2 | 13571 | 24460 | 1.36% | 0.182% |
| 86 | 14.530 | 2062 | 2071 | 2083 | rVV5 | 12328 | 44059 | 2.44% | 0.328% |
| 87 | 14.633 | 2086 | 2088 | 2092 | rVB4 | 2333 | 2312 | 0.13% | 0.017% |
| 88 | 14.731 | 2101 | 2104 | 2107 | rBV3 | 3771 | 4194 | 0.23% | 0.031% |
| 89 | 14.859 | 2122 | 2125 | 2126 | rBV2 | 1877 | 1867 | 0.10% | 0.014% |
| 90 | 14.956 | 2135 | 2141 | 2150 | rVB10 | 6826 | 16745 | 0.93% | 0.125% |
| 91 | 15.188 | 2174 | 2179 | 2183 | rBV5 | 5791 | 9701 | 0.54% | 0.072% |
| 92 | 15.371 | 2203 | 2209 | 2215 | rBV | 56329 | 100761 | 5.59% | 0.751% |
| 93 | 15.444 | 2218 | 2221 | 2226 | rVV2 | 22598 | 33266 | 1.85% | 0.248% |
| 94 | 15.499 | 2226 | 2230 | 2237 | rVB2 | 16339 | 31816 | 1.76% | 0.237% |
| 95 | 15.810 | 2277 | 2281 | 2284 | rBV4 | 8991 | 12887 | 0.71% | 0.096% |
| 96 | 15.975 | 2302 | 2308 | 2318 | rBV4 | 6392 | 17989 | 1.00% | 0.134% |
| 97 | 16.371 | 2369 | 2373 | 2374 | rBV3 | 2742 | 3430 | 0.19% | 0.026% |
| 98 | 16.450 | 2378 | 2386 | 2394 | rVV | 70125 | 156106 | 8.66% | 1.163% |
| 99 | 16.578 | 2405 | 2407 | 2408 | rBV | 1512 | 989 | 0.05% | 0.007% |
| 100 | 16.651 | 2412 | 2419 | 2427 | rVB2 | 40766 | 92268 | 5.12% | 0.687% |

Sum of corrected areas: 13422265

LSC Report - Integrated Chromatogram

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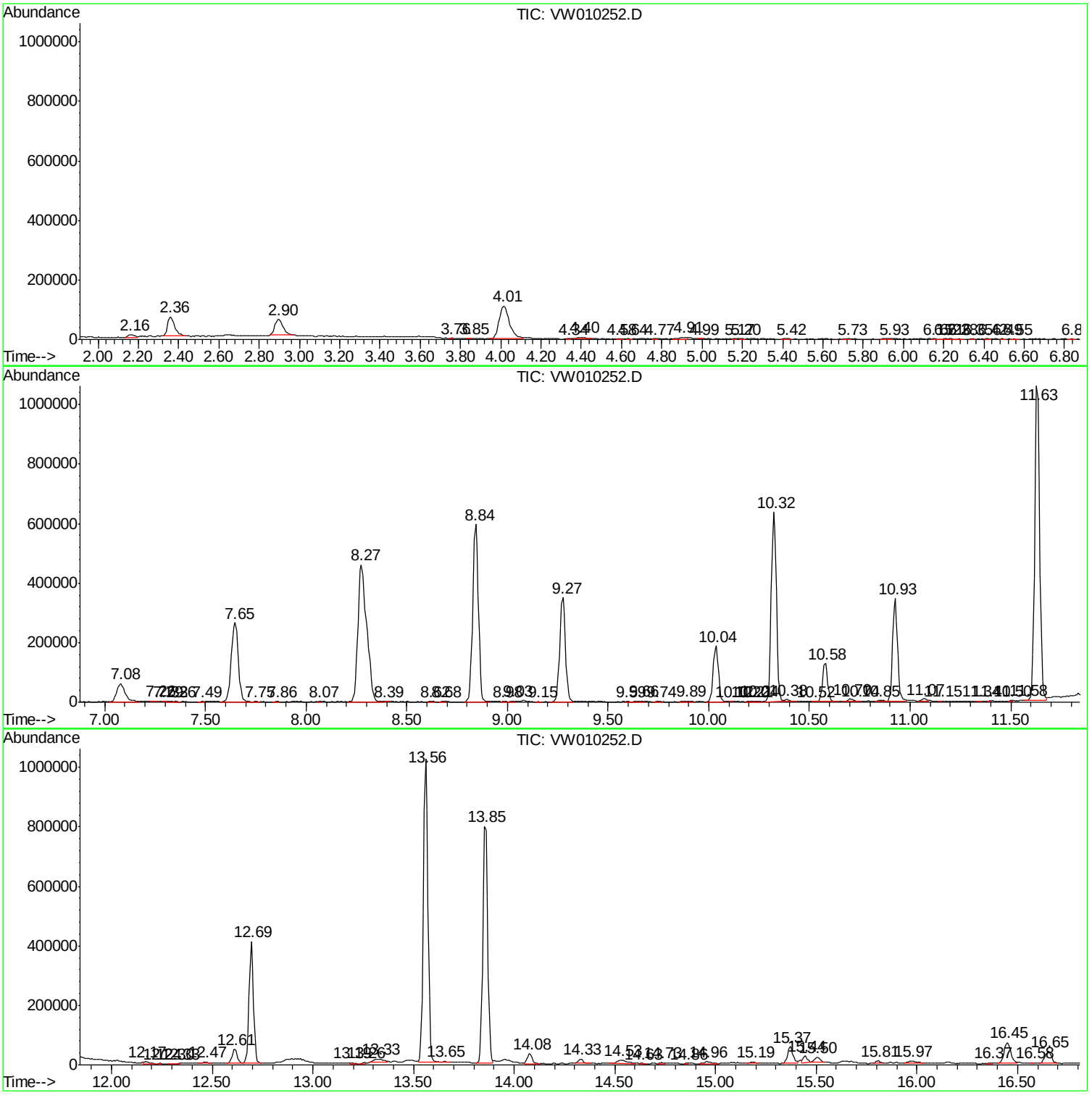
Sample : K2604-08
Misc : 5.10G/10ML/MSVOA W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAJ82

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM042919S.M
Quant Title : VOC Analysis

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW050119\
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ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** GAJ82

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM042919S.M
Quant Title : VOC Analysis

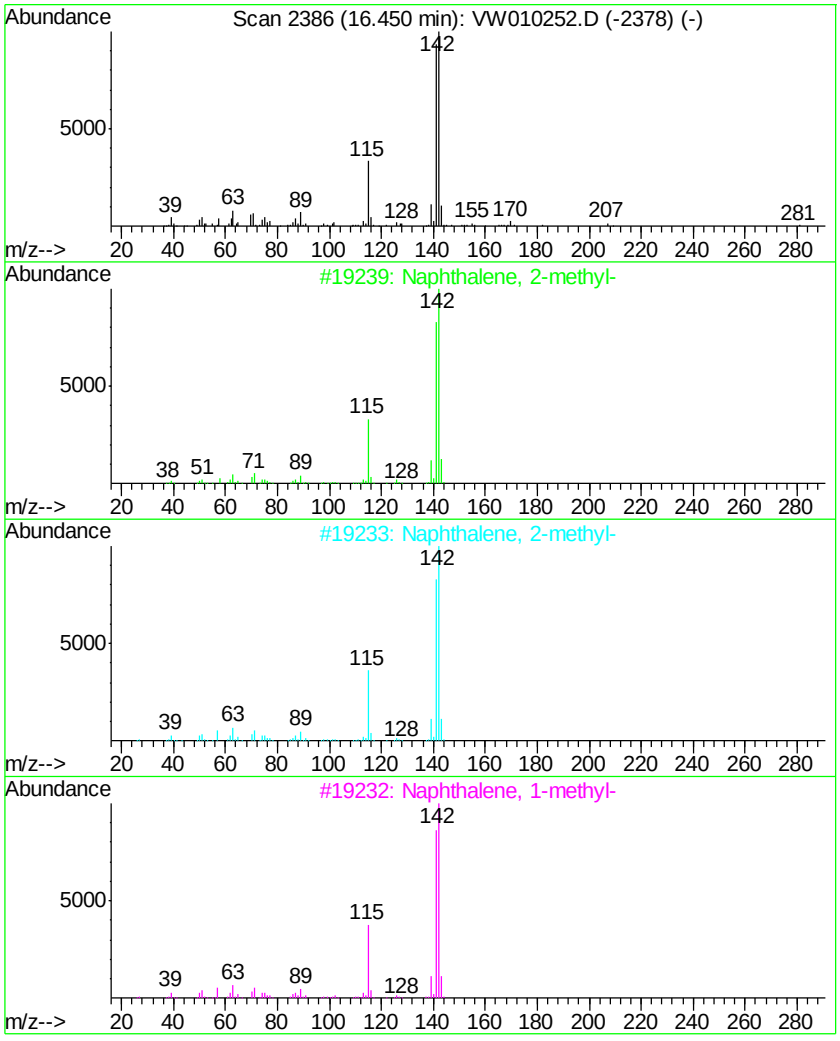
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

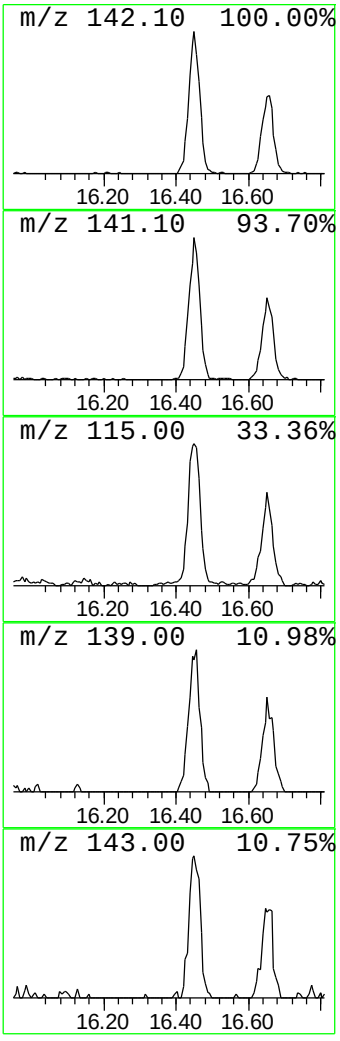
**********

Peak Number 4 Naphthalene, 1-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.45 | 2.45 ug/L | 156106 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 97 |
| 2 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 3 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 4 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 94 |
| 5 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050119\
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM042919S.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 |
| Naphthalene, 1-me... | 16.45 | 2.5 | ug/L | 156106 | 3 | 13.56 | 1594300 | 25.0 |