LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052919\
Data File : VV011121.D
Acq On : 29 May 2019 23:45
Operator : SY/MD
Sample : K3017-11
Misc : 5.68G/10ML/MSVOA V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51E4

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\SOM2VLM052819S.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 | 1.315 | 65 | 70 | 77 | rVB | 201887 | 177462 | 13.46% | 1.786% |
| 2 | 1.563 | 142 | 147 | 160 | rVB | 137696 | 160364 | 12.17% | 1.614% |
| 3 | 2.119 | 313 | 320 | 333 | rVB | 306724 | 437487 | 33.19% | 4.402% |
| 4 | 3.164 | 643 | 645 | 649 | rVB4 | 1216 | 722 | 0.05% | 0.007% |
| 5 | 3.261 | 673 | 675 | 678 | rBV3 | 937 | 457 | 0.03% | 0.005% |
| 6 | 3.412 | 721 | 722 | 723 | rBV | 778 | 161 | 0.01% | 0.002% |
| 7 | 3.431 | 725 | 728 | 730 | rBV2 | 685 | 362 | 0.03% | 0.004% |
| 8 | 3.444 | 730 | 732 | 734 | rBV3 | 859 | 571 | 0.04% | 0.006% |
| 9 | 3.486 | 743 | 745 | 748 | rBV3 | 587 | 379 | 0.03% | 0.004% |
| 10 | 3.521 | 753 | 756 | 759 | rBV4 | 1015 | 870 | 0.07% | 0.009% |
| 11 | 3.592 | 776 | 778 | 780 | rBV3 | 787 | 409 | 0.03% | 0.004% |
| 12 | 3.682 | 801 | 806 | 807 | rBV4 | 1448 | 897 | 0.07% | 0.009% |
| 13 | 3.708 | 812 | 814 | 817 | rBV4 | 567 | 236 | 0.02% | 0.002% |
| 14 | 3.753 | 817 | 828 | 846 | rBV3 | 18113 | 45745 | 3.47% | 0.460% |
| 15 | 3.894 | 870 | 872 | 873 | rBV2 | 976 | 390 | 0.03% | 0.004% |
| 16 | 3.936 | 874 | 885 | 903 | rVV | 66895 | 168745 | 12.80% | 1.698% |
| 17 | 4.232 | 975 | 977 | 978 | rBV2 | 750 | 275 | 0.02% | 0.003% |
| 18 | 4.257 | 984 | 985 | 986 | rBV | 692 | 187 | 0.01% | 0.002% |
| 19 | 4.315 | 1000 | 1003 | 1004 | rBV3 | 1053 | 613 | 0.05% | 0.006% |
| 20 | 4.396 | 1010 | 1028 | 1055 | rBV | 212690 | 521549 | 39.57% | 5.248% |
| 21 | 4.785 | 1144 | 1149 | 1154 | rBV6 | 1798 | 2149 | 0.16% | 0.022% |
| 22 | 4.810 | 1154 | 1157 | 1159 | rBV3 | 1100 | 777 | 0.06% | 0.008% |
| 23 | 4.872 | 1172 | 1176 | 1180 | rBV5 | 1363 | 1403 | 0.11% | 0.014% |
| 24 | 4.981 | 1207 | 1210 | 1213 | rBV4 | 942 | 694 | 0.05% | 0.007% |
| 25 | 5.007 | 1216 | 1218 | 1219 | rBV2 | 762 | 201 | 0.02% | 0.002% |
| 26 | 5.016 | 1219 | 1221 | 1223 | rVB2 | 499 | 261 | 0.02% | 0.003% |
| 27 | 5.029 | 1223 | 1225 | 1226 | rBV2 | 830 | 337 | 0.03% | 0.003% |
| 28 | 5.090 | 1226 | 1244 | 1274 | rBV2 | 532871 | 1318174 | 100.00% | 13.263% |
| 29 | 5.373 | 1320 | 1332 | 1346 | rBV5 | 12088 | 29143 | 2.21% | 0.293% |
| 30 | 5.659 | 1410 | 1421 | 1447 | rVB | 380349 | 753644 | 57.17% | 7.583% |
| 31 | 6.116 | 1549 | 1563 | 1585 | rBV | 310144 | 623175 | 47.28% | 6.270% |
| 32 | 6.328 | 1620 | 1629 | 1645 | rBV | 93197 | 178826 | 13.57% | 1.799% |
| 33 | 6.537 | 1692 | 1694 | 1695 | rBV | 829 | 260 | 0.02% | 0.003% |
| 34 | 6.585 | 1707 | 1709 | 1711 | rBV3 | 1399 | 683 | 0.05% | 0.007% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052919\
Data File : VV011121.D
Acq On : 29 May 2019 23:45
Operator : SY/MD
Sample : K3017-11
Misc : 5.68G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51E4

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\SOM2VLM052819S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 6.852 | 1789 | 1792 | 1796 | rBV6 | 783 | 714 | 0.05% | 0.007% |
| 36 | 6.910 | 1807 | 1810 | 1815 | rBV6 | 1178 | 1257 | 0.10% | 0.013% |
| 37 | 6.974 | 1827 | 1830 | 1832 | rBV4 | 1344 | 746 | 0.06% | 0.008% |
| 38 | 7.026 | 1835 | 1846 | 1862 | rVV | 177148 | 310713 | 23.57% | 3.126% |
| 39 | 7.270 | 1920 | 1922 | 1923 | rBV2 | 1004 | 499 | 0.04% | 0.005% |
| 40 | 7.357 | 1931 | 1949 | 1965 | rBV | 573721 | 1058841 | 80.33% | 10.654% |
| 41 | 7.662 | 2033 | 2044 | 2058 | rBV | 112639 | 193172 | 14.65% | 1.944% |
| 42 | 7.865 | 2103 | 2107 | 2108 | rBV5 | 978 | 660 | 0.05% | 0.007% |
| 43 | 8.132 | 2178 | 2190 | 2219 | rBV | 246704 | 456820 | 34.66% | 4.596% |
| 44 | 8.280 | 2227 | 2236 | 2262 | rVB | 474331 | 766800 | 58.17% | 7.715% |
| 45 | 8.682 | 2360 | 2361 | 2362 | rBV | 453 | 94 | 0.01% | 0.001% |
| 46 | 8.695 | 2362 | 2365 | 2368 | rBV3 | 1146 | 703 | 0.05% | 0.007% |
| 47 | 8.765 | 2382 | 2387 | 2390 | rBV6 | 1670 | 1522 | 0.12% | 0.015% |
| 48 | 8.894 | 2414 | 2427 | 2451 | rBV | 536056 | 895796 | 67.96% | 9.013% |
| 49 | 9.531 | 2614 | 2625 | 2640 | rBV3 | 20575 | 55420 | 4.20% | 0.558% |
| 50 | 9.852 | 2718 | 2725 | 2737 | rBV2 | 22282 | 34844 | 2.64% | 0.351% |
| 51 | 10.087 | 2796 | 2798 | 2802 | rBV4 | 844 | 511 | 0.04% | 0.005% |
| 52 | 10.260 | 2837 | 2852 | 2874 | rBV | 269153 | 430895 | 32.69% | 4.336% |
| 53 | 10.363 | 2882 | 2884 | 2887 | rBV4 | 1339 | 846 | 0.06% | 0.009% |
| 54 | 10.379 | 2887 | 2889 | 2891 | rBV3 | 1479 | 723 | 0.05% | 0.007% |
| 55 | 10.421 | 2896 | 2902 | 2914 | rVB2 | 20247 | 34465 | 2.61% | 0.347% |
| 56 | 10.621 | 2960 | 2964 | 2974 | rBV5 | 6272 | 9122 | 0.69% | 0.092% |
| 57 | 10.759 | 2995 | 3007 | 3015 | rBV3 | 13664 | 24490 | 1.86% | 0.246% |
| 58 | 11.296 | 3163 | 3174 | 3194 | rVB | 386077 | 626476 | 47.53% | 6.303% |
| 59 | 11.672 | 3280 | 3291 | 3304 | rBV | 370725 | 585699 | 44.43% | 5.893% |
| 60 | 11.955 | 3376 | 3379 | 3382 | rBV4 | 1223 | 821 | 0.06% | 0.008% |
| 61 | 12.492 | 3544 | 3546 | 3547 | rBV2 | 823 | 379 | 0.03% | 0.004% |
| 62 | 12.694 | 3606 | 3609 | 3610 | rBV2 | 1334 | 717 | 0.05% | 0.007% |
| 63 | 12.784 | 3632 | 3637 | 3639 | rBV4 | 2202 | 2525 | 0.19% | 0.025% |
| 64 | 12.981 | 3696 | 3698 | 3699 | rBV2 | 676 | 262 | 0.02% | 0.003% |
| 65 | 12.997 | 3699 | 3703 | 3706 | rBV6 | 1397 | 1205 | 0.09% | 0.012% |
| 66 | 13.096 | 3728 | 3734 | 3738 | rBV8 | 2134 | 2505 | 0.19% | 0.025% |
| 67 | 13.116 | 3738 | 3740 | 3742 | rBV2 | 946 | 482 | 0.04% | 0.005% |
| 68 | 13.444 | 3839 | 3842 | 3844 | rBV3 | 1201 | 681 | 0.05% | 0.007% |
| 69 | 13.595 | 3887 | 3889 | 3891 | rBV3 | 868 | 402 | 0.03% | 0.004% |
| 70 | 13.807 | 3952 | 3955 | 3957 | rVB4 | 1268 | 629 | 0.05% | 0.006% |
| 71 | 13.839 | 3963 | 3965 | 3968 | rVB3 | 1093 | 345 | 0.03% | 0.003% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052919\
Data File : VV011121.D
Acq On : 29 May 2019 23:45
Operator : SY/MD
Sample : K3017-11
Misc : 5.68G/10ML/MSVOA V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51E4

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\SOM2VLM052819S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 13.964 | 4002 | 4004 | 4006 | rBV3 | 913 | 543 | 0.04% | 0.005% |
| 73 | 14.312 | 4110 | 4112 | 4113 | rBV2 | 1249 | 467 | 0.04% | 0.005% |
| 74 | 14.444 | 4151 | 4153 | 4155 | rBV3 | 942 | 489 | 0.04% | 0.005% |
| 75 | 14.495 | 4163 | 4169 | 4172 | rBV8 | 1949 | 1974 | 0.15% | 0.020% |
| 76 | 14.665 | 4220 | 4222 | 4224 | rBV2 | 1550 | 843 | 0.06% | 0.008% |
| 77 | 14.743 | 4242 | 4246 | 4247 | rBV2 | 1405 | 895 | 0.07% | 0.009% |
| 78 | 14.968 | 4313 | 4316 | 4317 | rBV3 | 1064 | 610 | 0.05% | 0.006% |
| 79 | 15.006 | 4324 | 4328 | 4331 | rBV4 | 1826 | 1859 | 0.14% | 0.019% |
| 80 | 15.305 | 4419 | 4421 | 4424 | rBV3 | 1225 | 477 | 0.04% | 0.005% |

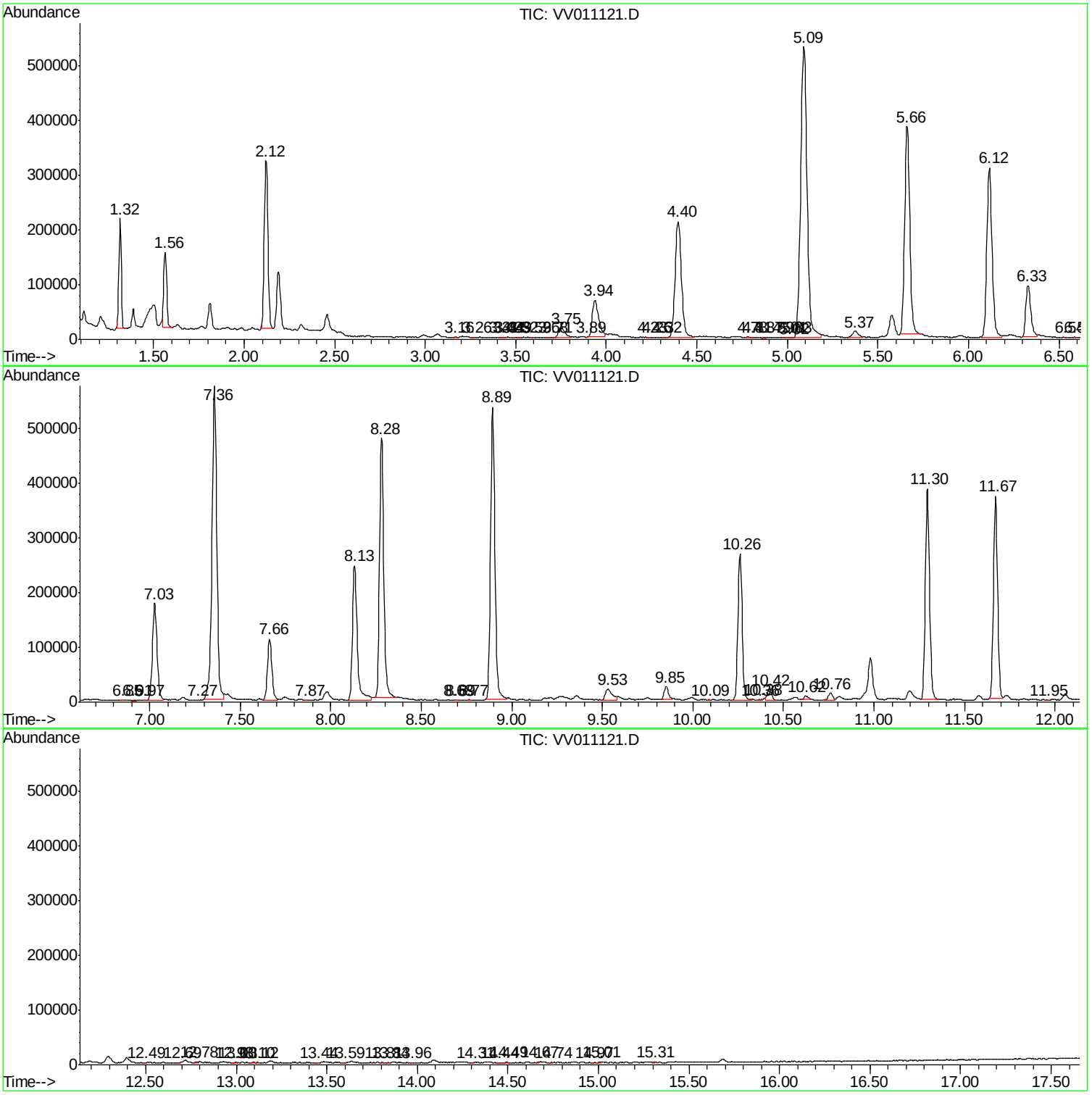
Sum of corrected areas: 9938546

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052919\
Data File : VV011121.D
Acq On : 29 May 2019 23:45
Operator : SY/MD
Sample : K3017-11
Misc : 5.68G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51E4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.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\VV052919\
Data File : VV011121.D
Acq On : 29 May 2019 23:45
Operator : SY/MD
Sample : K3017-11
Misc : 5.68G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51E4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

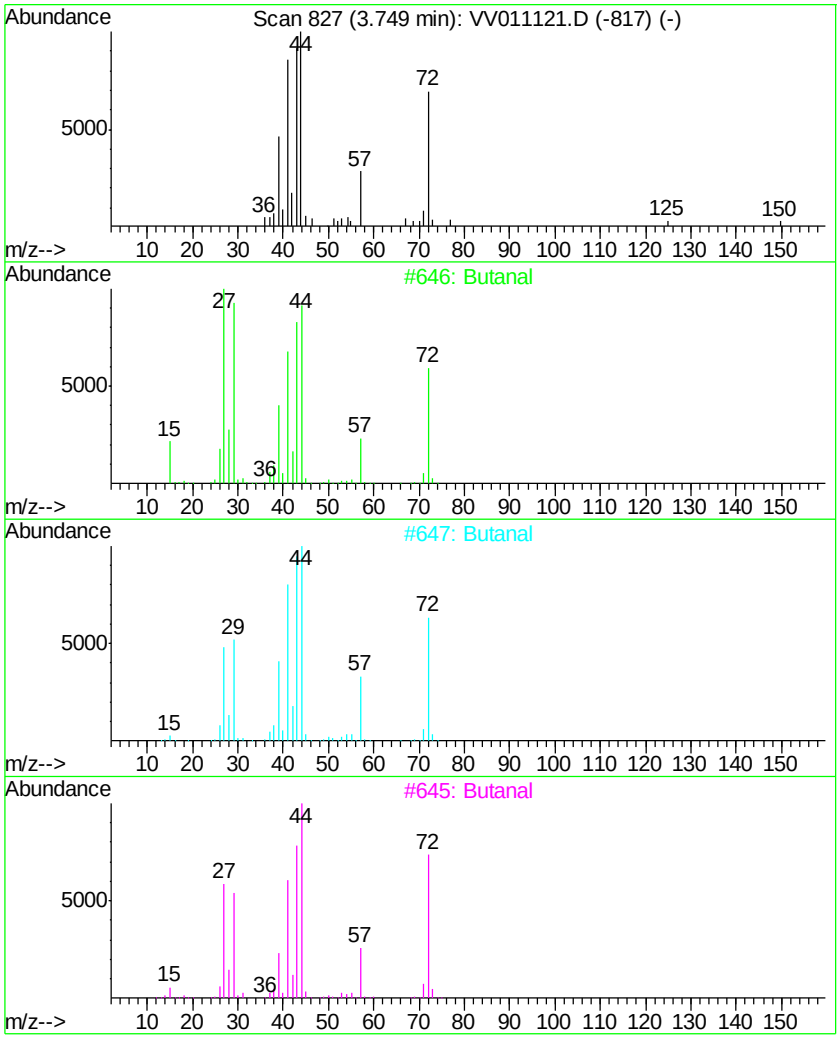
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

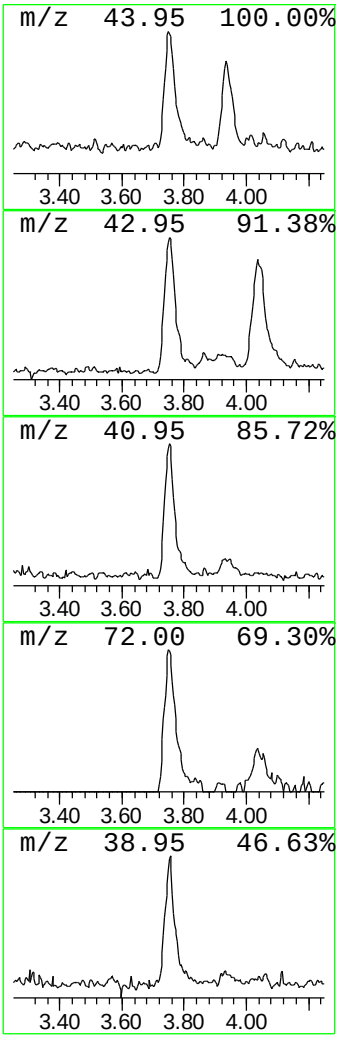
**********

Peak Number 1 Butanal Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.75 | 1.52 ug/L | 45745 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal | 72 | C4H8O | 000123-72-8 | 90 |
| 2 | Butanal | 72 | C4H8O | 000123-72-8 | 76 |
| 3 | Butanal | 72 | C4H8O | 000123-72-8 | 58 |
| 4 | Ethene, ethoxy- | 72 | C4H8O | 000109-92-2 | 50 |
| 5 | Butanal | 72 | C4H8O | 000123-72-8 | 38 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052919\
Data File : VV011121.D
Acq On : 29 May 2019 23:45
Operator : SY/MD
Sample : K3017-11
Misc : 5.68G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51E4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

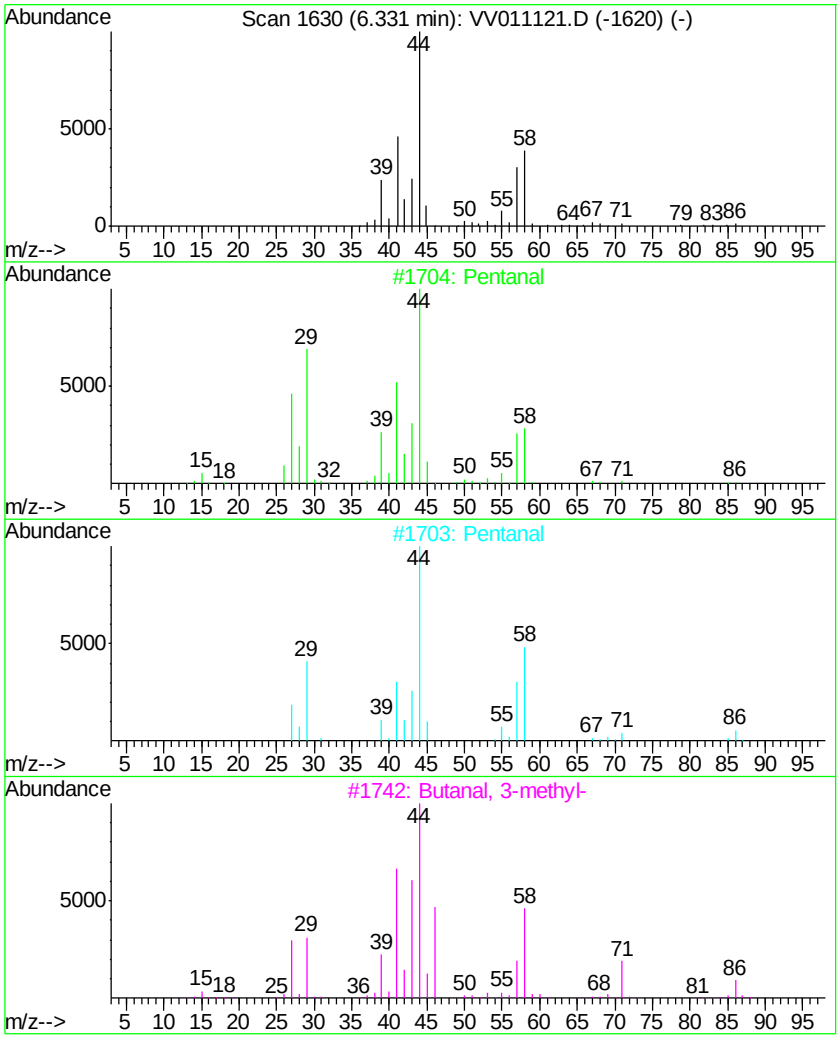
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

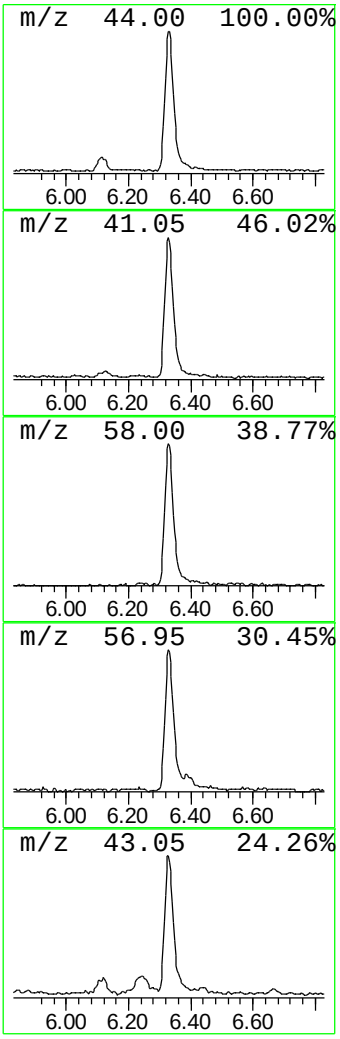
**********

Peak Number 2 Pentanal Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.33 | 5.93 ug/L | 178826 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentanal | 86 | C5H10O | 000110-62-3 | 80 |
| 2 | Pentanal | 86 | C5H10O | 000110-62-3 | 78 |
| 3 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 64 |
| 4 | Pentanal | 86 | C5H10O | 000110-62-3 | 58 |
| 5 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 36 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052919\
Data File : VV011121.D
Acq On : 29 May 2019 23:45
Operator : SY/MD
Sample : K3017-11
Misc : 5.68G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51E4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

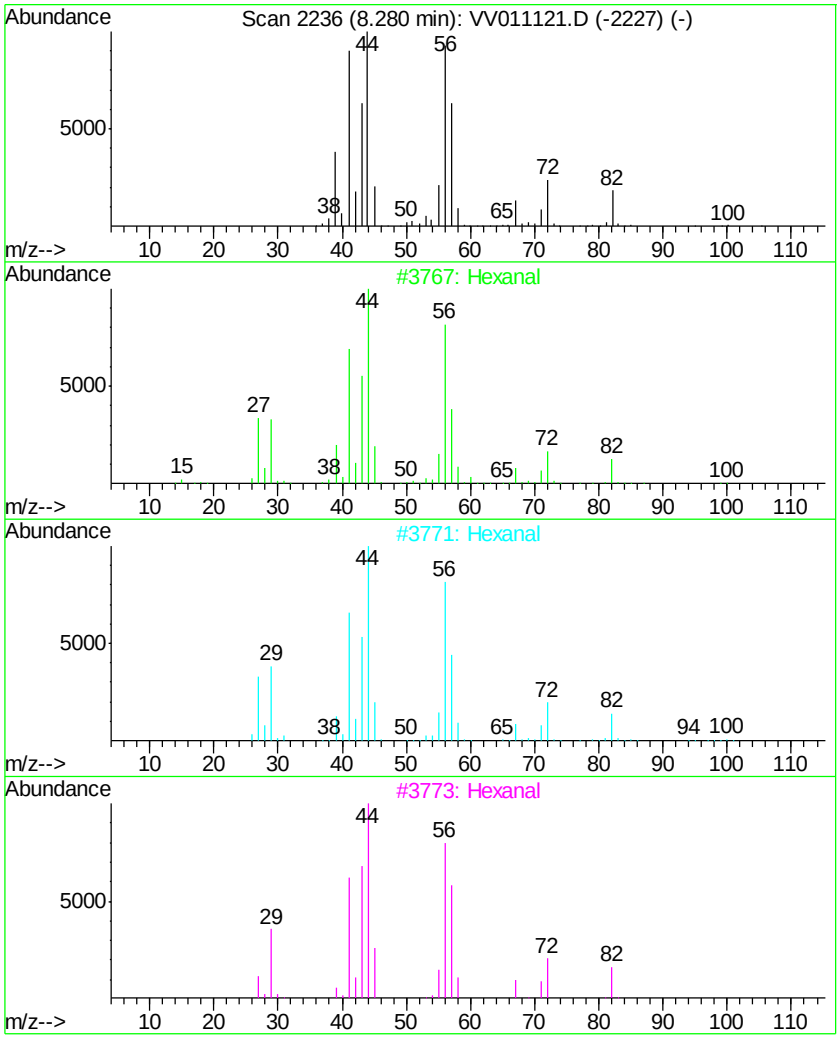
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

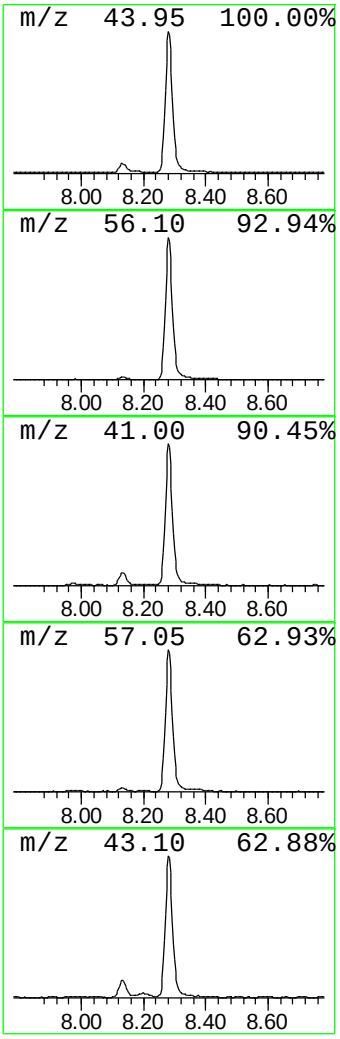
**********

Peak Number 4 Hexanal Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.28 | 21.40 ug/L | 766800 | Chlorobenzene-d5 | 8.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 87 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 80 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 80 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 72 |
| 5 | 2,2-Dimethyl-3-hydroxypropionald... | 102 | C5H10O2 | 000597-31-9 | 28 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052919\
Data File : VV011121.D
Acq On : 29 May 2019 23:45
Operator : SY/MD
Sample : K3017-11
Misc : 5.68G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51E4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

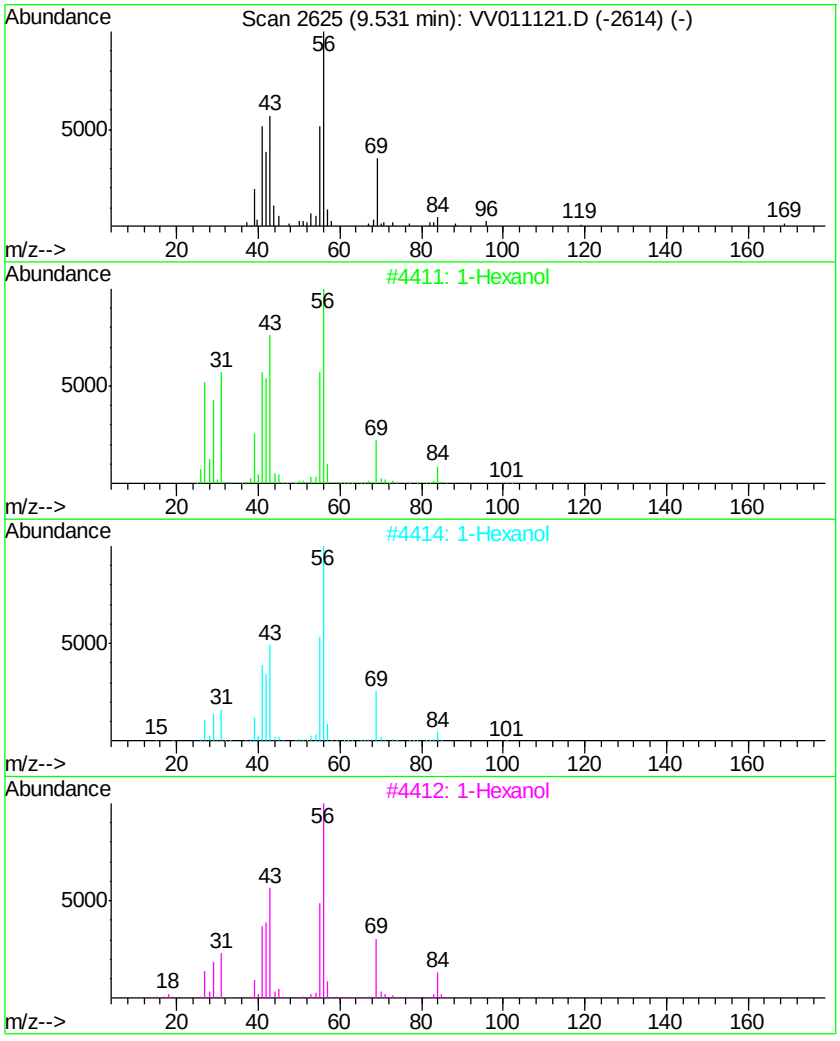
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

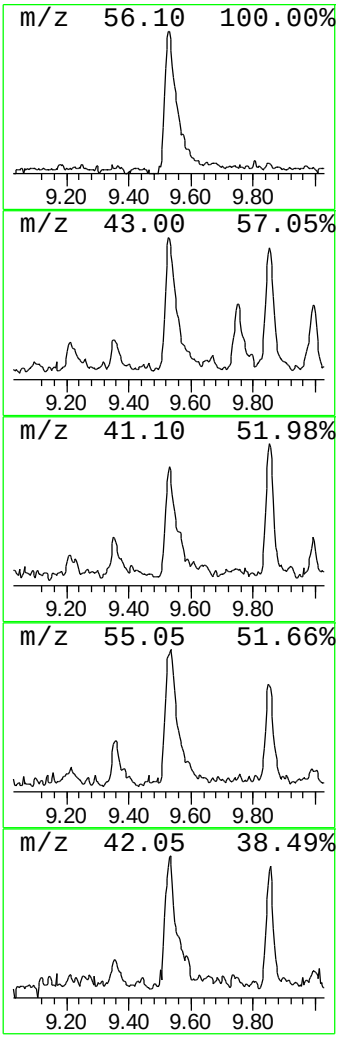
**********

Peak Number 5 1-Hexanol Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.53 | 1.55 ug/L | 55420 | Chlorobenzene-d5 | 8.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexanol | 102 | C6H14O | 000111-27-3 | 78 |
| 2 | 1-Hexanol | 102 | C6H14O | 000111-27-3 | 72 |
| 3 | 1-Hexanol | 102 | C6H14O | 000111-27-3 | 72 |
| 4 | Hexyl trifluoroacetate | 198 | C8H13F3O2 | 000400-61-3 | 72 |
| 5 | Cyclobutane, butyl- | 112 | C8H16 | 013152-44-8 | 72 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052919\
Data File : VV011121.D
Acq On : 29 May 2019 23:45
Operator : SY/MD
Sample : K3017-11
Misc : 5.68G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51E4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.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 |
| Butanal | 3.75 | 1.5 | ug/L | 45745 | 1 | 5.66 | 753644 | 25.0 |
| Pentanal | 6.33 | 5.9 | ug/L | 178826 | 1 | 5.66 | 753644 | 25.0 |
| Hexanal | 8.28 | 21.4 | ug/L | 766800 | 2 | 8.89 | 895796 | 25.0 |
| 1-Hexanol | 9.53 | 1.6 | ug/L | 55420 | 2 | 8.89 | 895796 | 25.0 |