LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011176.D
Acq On : 31 May 2019 12:43
Operator : SY/MD
Sample : K3017-21
Misc : 4.78G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51F2

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\SOM2VLM053019S.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 | 1.110 | 3 | 6 | 21 | rVB2 | 29793 | 30058 | 2.31% | 0.241% |
| 2 | 1.200 | 30 | 34 | 54 | rVB4 | 23227 | 46506 | 3.57% | 0.373% |
| 3 | 1.309 | 61 | 68 | 77 | rVB | 196715 | 193575 | 14.87% | 1.554% |
| 4 | 1.380 | 84 | 90 | 99 | rVB | 97543 | 98322 | 7.55% | 0.790% |
| 5 | 1.557 | 138 | 145 | 153 | rVB | 143378 | 171939 | 13.21% | 1.381% |
| 6 | 2.113 | 308 | 318 | 329 | rVV2 | 319580 | 464730 | 35.71% | 3.732% |
| 7 | 2.184 | 331 | 340 | 352 | rVB | 158541 | 232012 | 17.83% | 1.863% |
| 8 | 2.450 | 414 | 423 | 434 | rVB | 54010 | 84990 | 6.53% | 0.682% |
| 9 | 2.730 | 508 | 510 | 516 | rBV7 | 1401 | 1366 | 0.10% | 0.011% |
| 10 | 2.984 | 580 | 589 | 600 | rBV2 | 9274 | 15950 | 1.23% | 0.128% |
| 11 | 3.058 | 605 | 612 | 625 | rVV5 | 8840 | 16527 | 1.27% | 0.133% |
| 12 | 3.196 | 645 | 655 | 666 | rBV6 | 4989 | 11951 | 0.92% | 0.096% |
| 13 | 3.470 | 737 | 740 | 743 | rBV4 | 1125 | 942 | 0.07% | 0.008% |
| 14 | 3.528 | 756 | 758 | 760 | rBV2 | 1613 | 864 | 0.07% | 0.007% |
| 15 | 3.743 | 811 | 825 | 840 | rBV2 | 23874 | 56461 | 4.34% | 0.453% |
| 16 | 3.820 | 847 | 849 | 854 | rVB4 | 1213 | 890 | 0.07% | 0.007% |
| 17 | 3.862 | 854 | 862 | 865 | rBV8 | 2043 | 2886 | 0.22% | 0.023% |
| 18 | 3.929 | 872 | 883 | 901 | rBV | 51580 | 131059 | 10.07% | 1.052% |
| 19 | 4.142 | 947 | 949 | 957 | rVV6 | 1303 | 975 | 0.07% | 0.008% |
| 20 | 4.286 | 990 | 994 | 997 | rBV4 | 1142 | 843 | 0.06% | 0.007% |
| 21 | 4.389 | 1008 | 1026 | 1048 | rBV | 206382 | 508887 | 39.10% | 4.086% |
| 22 | 4.714 | 1125 | 1127 | 1136 | rVB9 | 1850 | 1838 | 0.14% | 0.015% |
| 23 | 4.801 | 1151 | 1154 | 1158 | rVB4 | 1446 | 1085 | 0.08% | 0.009% |
| 24 | 5.000 | 1211 | 1216 | 1217 | rBV4 | 1199 | 969 | 0.07% | 0.008% |
| 25 | 5.087 | 1225 | 1243 | 1271 | rBV2 | 511670 | 1271102 | 97.66% | 10.207% |
| 26 | 5.225 | 1284 | 1286 | 1289 | rBV3 | 1341 | 891 | 0.07% | 0.007% |
| 27 | 5.286 | 1303 | 1305 | 1308 | rVB4 | 1438 | 884 | 0.07% | 0.007% |
| 28 | 5.370 | 1318 | 1331 | 1346 | rBV2 | 15631 | 37820 | 2.91% | 0.304% |
| 29 | 5.531 | 1376 | 1381 | 1383 | rBV6 | 3336 | 3733 | 0.29% | 0.030% |
| 30 | 5.656 | 1406 | 1420 | 1445 | rBV | 549679 | 1094949 | 84.13% | 8.793% |
| 31 | 5.833 | 1473 | 1475 | 1479 | rVB5 | 1765 | 1168 | 0.09% | 0.009% |
| 32 | 5.952 | 1499 | 1512 | 1527 | rBV8 | 14422 | 32661 | 2.51% | 0.262% |
| 33 | 6.113 | 1547 | 1562 | 1581 | rVV | 292868 | 587746 | 45.16% | 4.720% |
| 34 | 6.225 | 1594 | 1597 | 1600 | rBV4 | 2301 | 2000 | 0.15% | 0.016% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011176.D
Acq On : 31 May 2019 12:43
Operator : SY/MD
Sample : K3017-21
Misc : 4.78G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51F2

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\SOM2VLM053019S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 6.325 | 1615 | 1628 | 1644 | rBV | 124723 | 242115 | 18.60% | 1.944% |
| 36 | 7.026 | 1826 | 1846 | 1868 | rBV | 173246 | 317277 | 24.38% | 2.548% |
| 37 | 7.180 | 1888 | 1894 | 1895 | rBV5 | 4229 | 3937 | 0.30% | 0.032% |
| 38 | 7.357 | 1929 | 1949 | 1964 | rBV | 643333 | 1163704 | 89.41% | 9.345% |
| 39 | 7.608 | 2021 | 2027 | 2033 | rVB9 | 3346 | 4750 | 0.36% | 0.038% |
| 40 | 7.659 | 2033 | 2043 | 2061 | rVV2 | 111523 | 190786 | 14.66% | 1.532% |
| 41 | 7.749 | 2064 | 2071 | 2083 | rVB9 | 6986 | 12998 | 1.00% | 0.104% |
| 42 | 7.871 | 2106 | 2109 | 2115 | rBV6 | 973 | 920 | 0.07% | 0.007% |
| 43 | 7.974 | 2131 | 2141 | 2151 | rBV5 | 8682 | 20386 | 1.57% | 0.164% |
| 44 | 8.132 | 2179 | 2190 | 2208 | rBV | 202420 | 364128 | 27.98% | 2.924% |
| 45 | 8.280 | 2224 | 2236 | 2258 | rBV | 719595 | 1180958 | 90.74% | 9.483% |
| 46 | 8.781 | 2389 | 2392 | 2397 | rVB6 | 1292 | 1063 | 0.08% | 0.009% |
| 47 | 8.894 | 2407 | 2427 | 2450 | rBV | 774489 | 1301526 | 100.00% | 10.452% |
| 48 | 9.106 | 2485 | 2493 | 2495 | rBV7 | 2799 | 3172 | 0.24% | 0.025% |
| 49 | 9.148 | 2504 | 2506 | 2508 | rBV2 | 1458 | 868 | 0.07% | 0.007% |
| 50 | 9.177 | 2509 | 2515 | 2526 | rVV2 | 9646 | 16867 | 1.30% | 0.135% |
| 51 | 9.260 | 2530 | 2541 | 2563 | rVV2 | 13845 | 44357 | 3.41% | 0.356% |
| 52 | 9.354 | 2567 | 2570 | 2580 | rVB7 | 5603 | 7465 | 0.57% | 0.060% |
| 53 | 9.469 | 2601 | 2606 | 2608 | rBV4 | 1206 | 1118 | 0.09% | 0.009% |
| 54 | 9.527 | 2614 | 2624 | 2635 | rBV4 | 13093 | 29312 | 2.25% | 0.235% |
| 55 | 9.749 | 2687 | 2693 | 2697 | rVV2 | 4527 | 5369 | 0.41% | 0.043% |
| 56 | 9.794 | 2699 | 2707 | 2716 | rVV2 | 28800 | 48026 | 3.69% | 0.386% |
| 57 | 9.849 | 2716 | 2724 | 2740 | rVB2 | 52469 | 85342 | 6.56% | 0.685% |
| 58 | 10.177 | 2819 | 2826 | 2828 | rVV8 | 2331 | 2677 | 0.21% | 0.021% |
| 59 | 10.225 | 2831 | 2841 | 2845 | rVV2 | 80912 | 126833 | 9.74% | 1.018% |
| 60 | 10.260 | 2846 | 2852 | 2865 | rVB | 243971 | 375826 | 28.88% | 3.018% |
| 61 | 10.421 | 2893 | 2902 | 2915 | rVB4 | 12854 | 23606 | 1.81% | 0.190% |
| 62 | 10.566 | 2935 | 2947 | 2958 | rBV10 | 10936 | 26745 | 2.05% | 0.215% |
| 63 | 10.624 | 2958 | 2965 | 2982 | rVB3 | 19754 | 36634 | 2.81% | 0.294% |
| 64 | 10.759 | 2999 | 3007 | 3015 | rBV5 | 6569 | 9847 | 0.76% | 0.079% |
| 65 | 10.801 | 3017 | 3020 | 3021 | rBV2 | 3173 | 1781 | 0.14% | 0.014% |
| 66 | 10.987 | 3059 | 3078 | 3088 | rBV3 | 46997 | 86210 | 6.62% | 0.692% |
| 67 | 11.042 | 3091 | 3095 | 3101 | rVB6 | 4293 | 5228 | 0.40% | 0.042% |
| 68 | 11.132 | 3120 | 3123 | 3126 | rBV4 | 1726 | 1053 | 0.08% | 0.008% |
| 69 | 11.196 | 3134 | 3143 | 3150 | rBV2 | 39854 | 66667 | 5.12% | 0.535% |
| 70 | 11.292 | 3162 | 3173 | 3190 | rVB | 506712 | 819823 | 62.99% | 6.583% |
| 71 | 11.575 | 3254 | 3261 | 3271 | rBV8 | 7305 | 12757 | 0.98% | 0.102% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011176.D
Acq On : 31 May 2019 12:43
Operator : SY/MD
Sample : K3017-21
Misc : 4.78G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51F2

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\SOM2VLM053019S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.672 | 3279 | 3291 | 3303 | rBV | 345266 | 555756 | 42.70% | 4.463% |
| 73 | 11.823 | 3333 | 3338 | 3340 | rBV5 | 2496 | 2126 | 0.16% | 0.017% |
| 74 | 12.055 | 3405 | 3410 | 3425 | rVB9 | 11732 | 19237 | 1.48% | 0.154% |
| 75 | 12.296 | 3476 | 3485 | 3495 | rBV2 | 7278 | 13277 | 1.02% | 0.107% |
| 76 | 12.392 | 3506 | 3515 | 3530 | rVV3 | 25646 | 44131 | 3.39% | 0.354% |
| 77 | 12.588 | 3571 | 3576 | 3578 | rBV4 | 2331 | 1920 | 0.15% | 0.015% |
| 78 | 12.717 | 3610 | 3616 | 3623 | rBV5 | 7344 | 9375 | 0.72% | 0.075% |
| 79 | 12.788 | 3629 | 3638 | 3646 | rVB5 | 5285 | 9122 | 0.70% | 0.073% |
| 80 | 12.929 | 3676 | 3682 | 3690 | rVB5 | 4246 | 5503 | 0.42% | 0.044% |
| 81 | 13.048 | 3717 | 3719 | 3725 | rVB7 | 1325 | 860 | 0.07% | 0.007% |
| 82 | 13.119 | 3739 | 3741 | 3747 | rVB5 | 1897 | 1460 | 0.11% | 0.012% |
| 83 | 13.286 | 3787 | 3793 | 3798 | rVB9 | 4057 | 4744 | 0.36% | 0.038% |
| 84 | 13.482 | 3849 | 3854 | 3855 | rBV4 | 2286 | 2078 | 0.16% | 0.017% |
| 85 | 13.633 | 3896 | 3901 | 3902 | rBV4 | 2614 | 2299 | 0.18% | 0.018% |
| 86 | 13.768 | 3939 | 3943 | 3945 | rBV4 | 1640 | 1086 | 0.08% | 0.009% |
| 87 | 14.016 | 4016 | 4020 | 4022 | rBV4 | 1736 | 1392 | 0.11% | 0.011% |
| 88 | 14.132 | 4054 | 4056 | 4062 | rVB6 | 1650 | 1405 | 0.11% | 0.011% |
| 89 | 14.263 | 4094 | 4097 | 4100 | rBV4 | 1751 | 1129 | 0.09% | 0.009% |
| 90 | 14.279 | 4100 | 4102 | 4108 | rVB6 | 1704 | 1341 | 0.10% | 0.011% |
| 91 | 14.485 | 4164 | 4166 | 4170 | rVB5 | 1789 | 1243 | 0.10% | 0.010% |
| 92 | 14.588 | 4193 | 4198 | 4200 | rVV4 | 1503 | 1436 | 0.11% | 0.012% |
| 93 | 14.617 | 4203 | 4207 | 4211 | rVB7 | 1475 | 1146 | 0.09% | 0.009% |
| 94 | 14.652 | 4211 | 4218 | 4220 | rBV8 | 1152 | 1207 | 0.09% | 0.010% |
| 95 | 14.913 | 4296 | 4299 | 4300 | rBV3 | 1336 | 932 | 0.07% | 0.007% |
| 96 | 15.061 | 4342 | 4345 | 4348 | rBV4 | 1393 | 889 | 0.07% | 0.007% |
| 97 | 15.431 | 4454 | 4460 | 4470 | rVB10 | 4882 | 8165 | 0.63% | 0.066% |
| 98 | 15.556 | 4492 | 4499 | 4504 | rBV10 | 3621 | 4894 | 0.38% | 0.039% |
| 99 | 15.961 | 4621 | 4625 | 4629 | rVB6 | 2056 | 1655 | 0.13% | 0.013% |
| 100 | 16.414 | 4764 | 4766 | 4770 | rBV4 | 2566 | 2436 | 0.19% | 0.020% |

Sum of corrected areas: 12452954

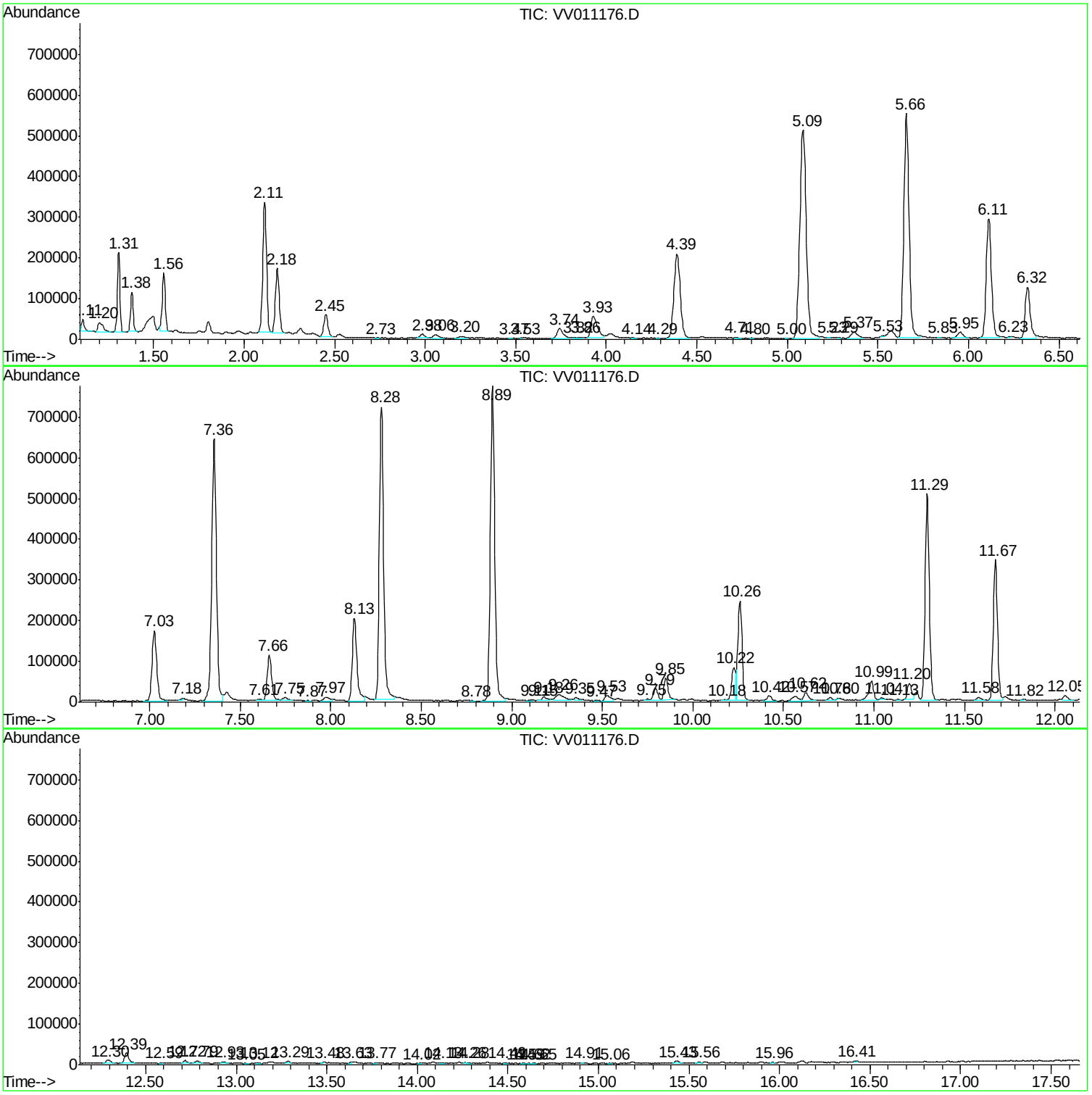
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011176.D
Acq On : 31 May 2019 12:43
Operator : SY/MD
Sample : K3017-21
Misc : 4.78G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
A51F2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011176.D
Acq On : 31 May 2019 12:43
Operator : SY/MD
Sample : K3017-21
Misc : 4.78G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51F2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

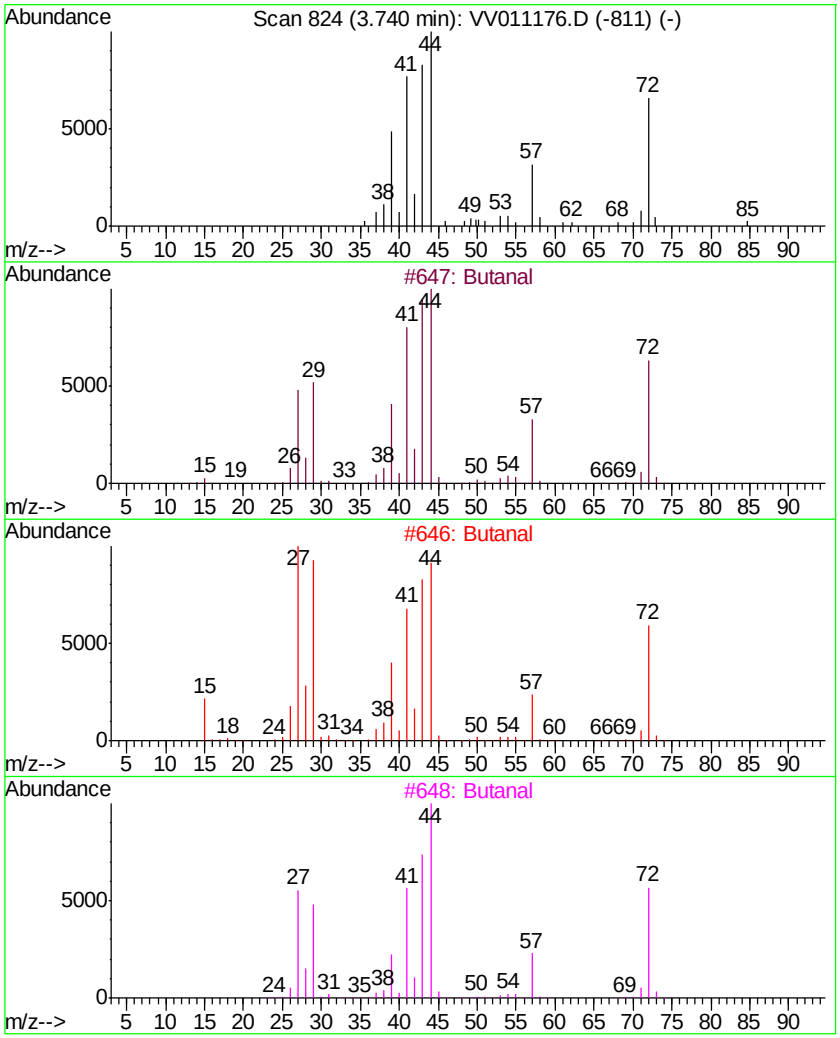
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

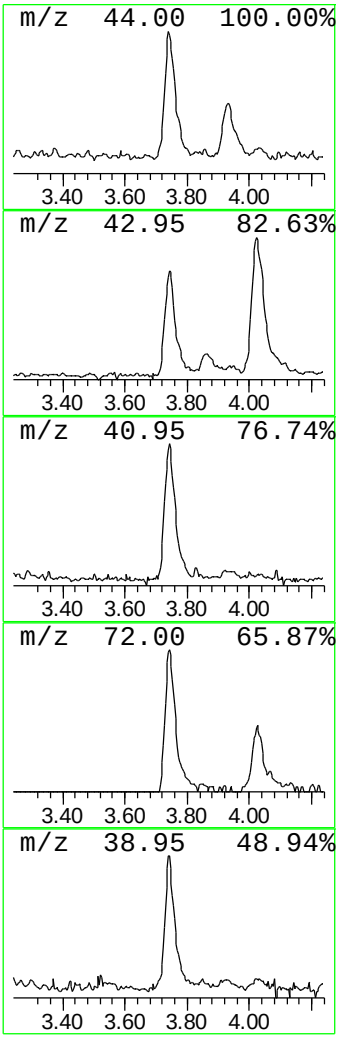
**********

Peak Number 2 Butanal Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.74 | 1.29 ug/L | 56461 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal | 72 | C4H8O | 000123-72-8 | 94 |
| 2 | Butanal | 72 | C4H8O | 000123-72-8 | 91 |
| 3 | Butanal | 72 | C4H8O | 000123-72-8 | 64 |
| 4 | Butanal | 72 | C4H8O | 000123-72-8 | 64 |
| 5 | Ethene, ethoxy- | 72 | C4H8O | 000109-92-2 | 58 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011176.D
Acq On : 31 May 2019 12:43
Operator : SY/MD
Sample : K3017-21
Misc : 4.78G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51F2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

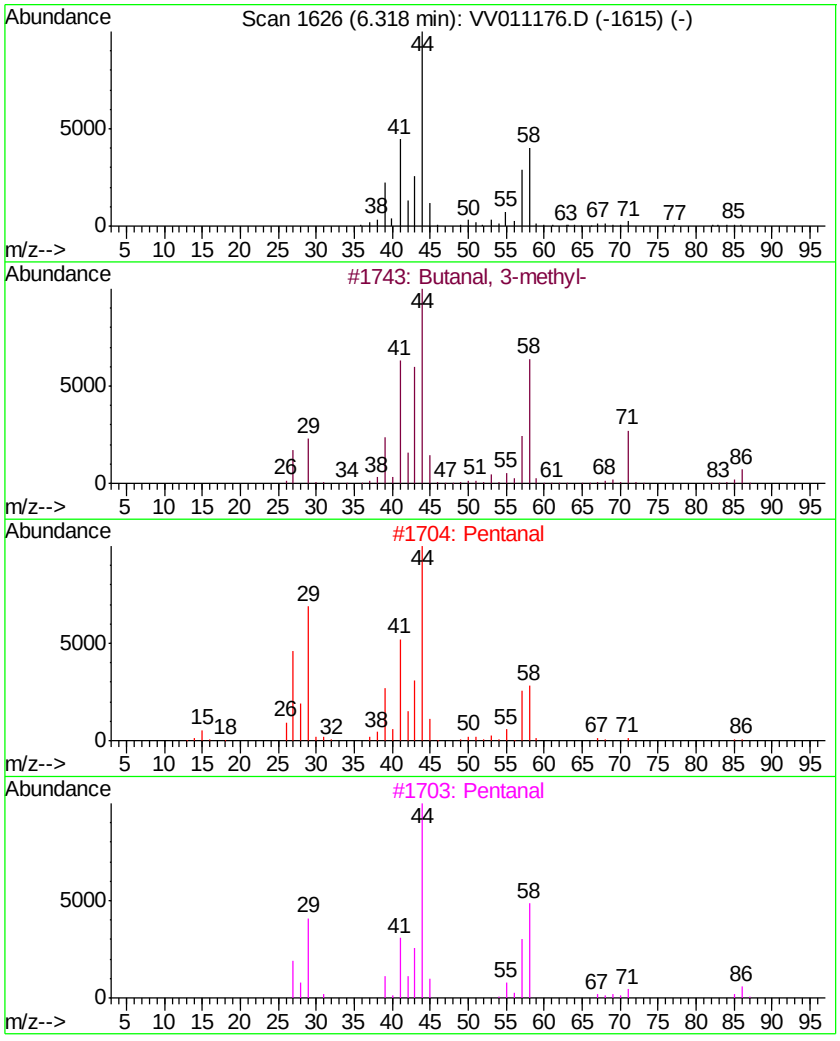
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

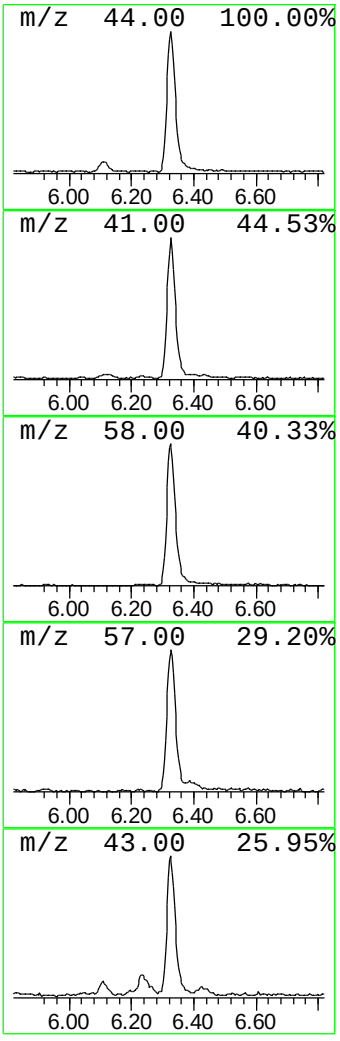
**********

Peak Number 3 Butanal, 3-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.32 | 5.53 ug/L | 242115 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 83 |
| 2 | Pentanal | 86 | C5H10O | 000110-62-3 | 80 |
| 3 | Pentanal | 86 | C5H10O | 000110-62-3 | 78 |
| 4 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 64 |
| 5 | Pentanal | 86 | C5H10O | 000110-62-3 | 58 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011176.D
Acq On : 31 May 2019 12:43
Operator : SY/MD
Sample : K3017-21
Misc : 4.78G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51F2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

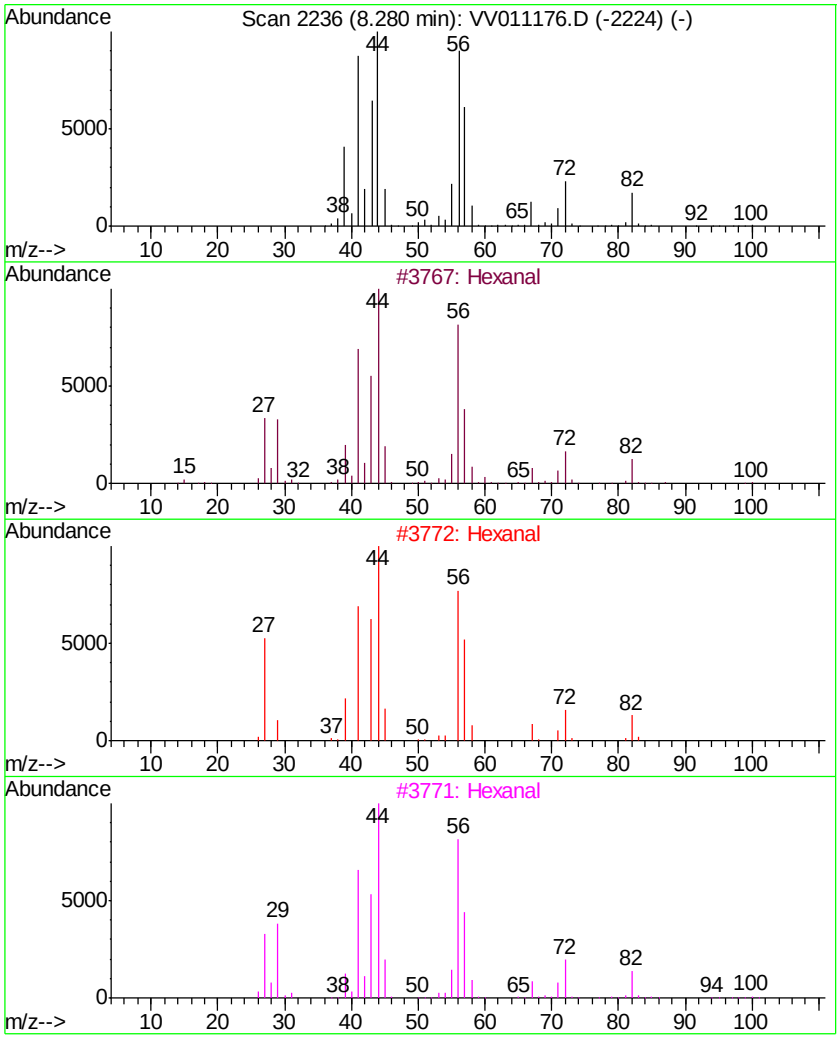
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

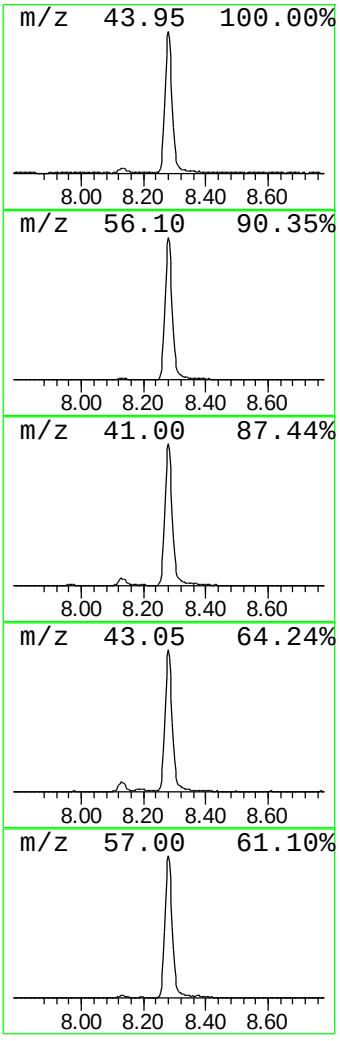
**********

Peak Number 5 Hexanal Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.28 | 22.68 ug/L | 1180960 | Chlorobenzene-d5 | 8.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 81 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 72 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 72 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 50 |
| 5 | Glutaraldehyde | 100 | C5H8O2 | 000111-30-8 | 30 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011176.D
Acq On : 31 May 2019 12:43
Operator : SY/MD
Sample : K3017-21
Misc : 4.78G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51F2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

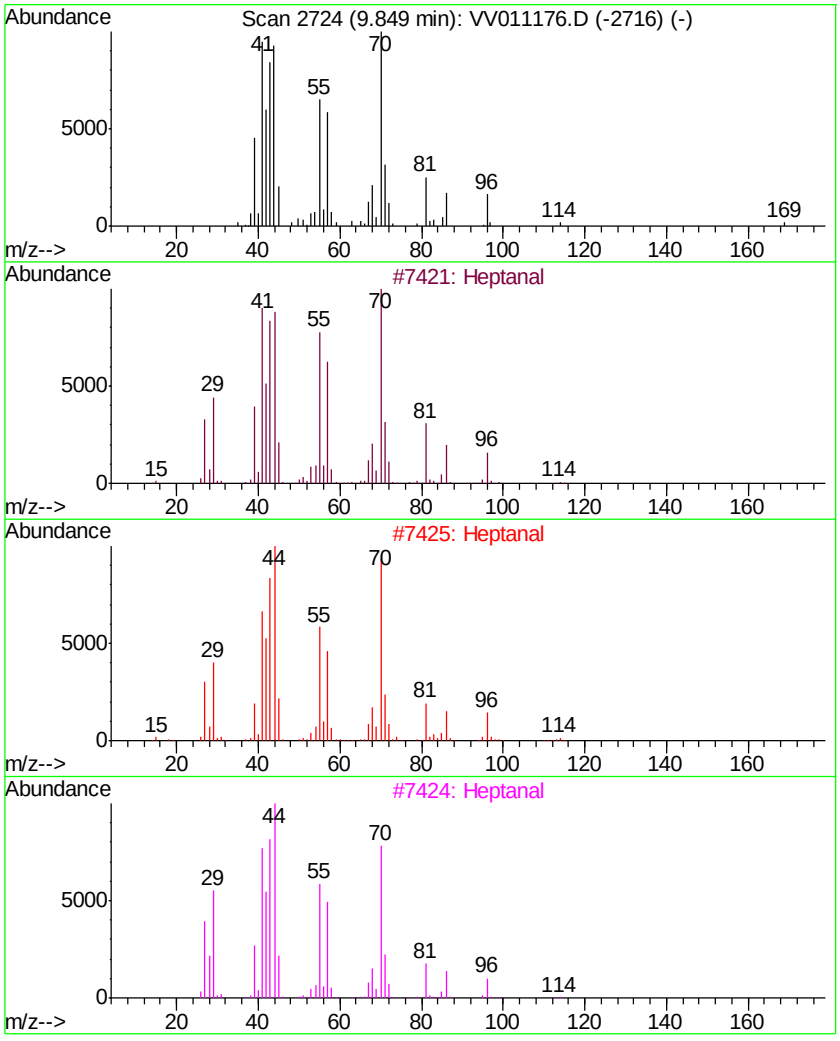
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

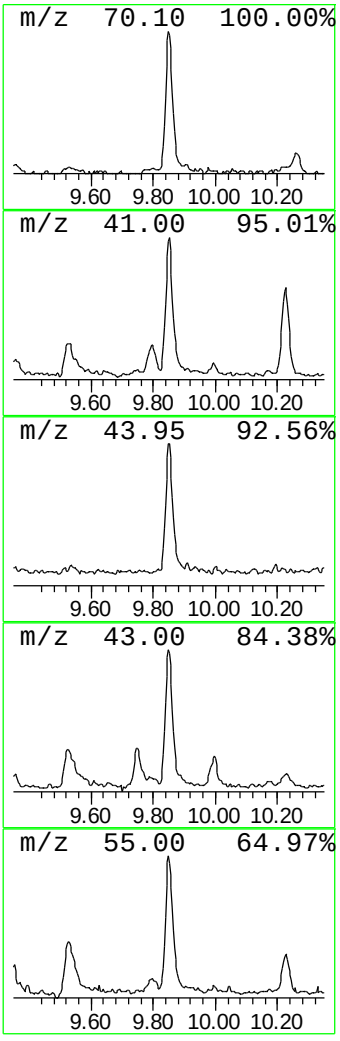
**********

Peak Number 6 Heptanal Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.85 | 1.64 ug/L | 85342 | Chlorobenzene-d5 | 8.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptanal | 114 | C7H14O | 000111-71-7 | 98 |
| 2 | Heptanal | 114 | C7H14O | 000111-71-7 | 97 |
| 3 | Heptanal | 114 | C7H14O | 000111-71-7 | 90 |
| 4 | Heptanal | 114 | C7H14O | 000111-71-7 | 43 |
| 5 | Heptanal | 114 | C7H14O | 000111-71-7 | 43 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011176.D
Acq On : 31 May 2019 12:43
Operator : SY/MD
Sample : K3017-21
Misc : 4.78G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51F2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

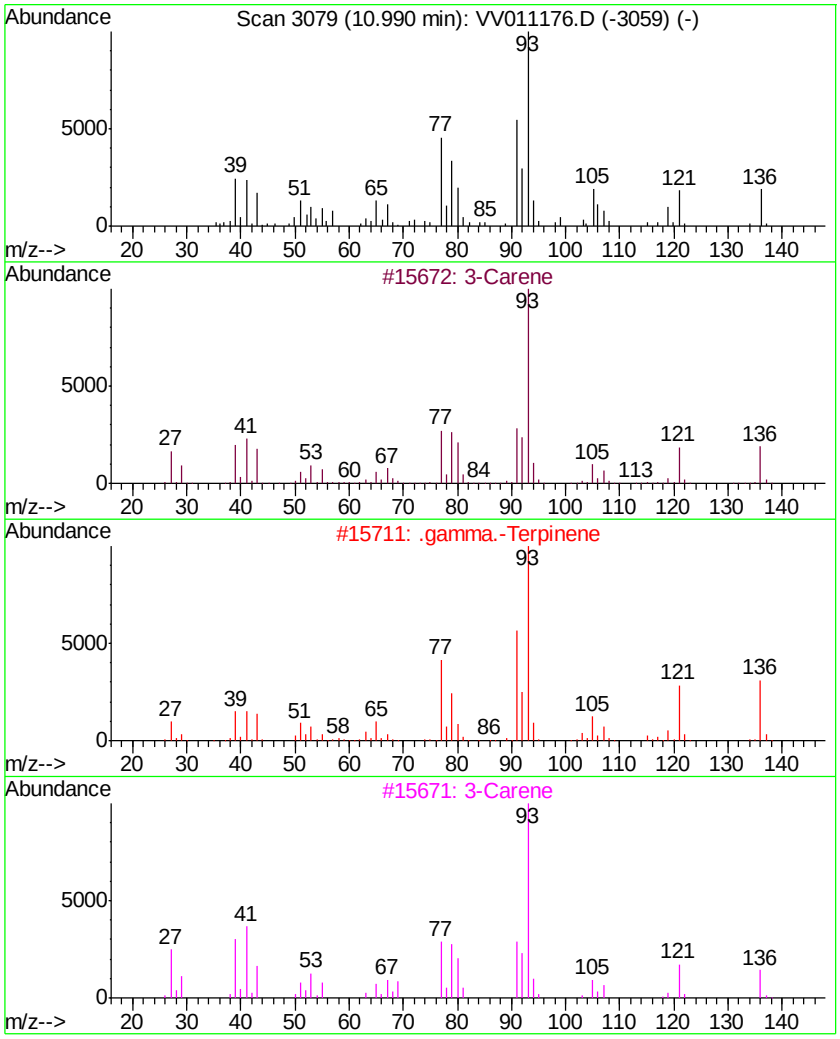
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

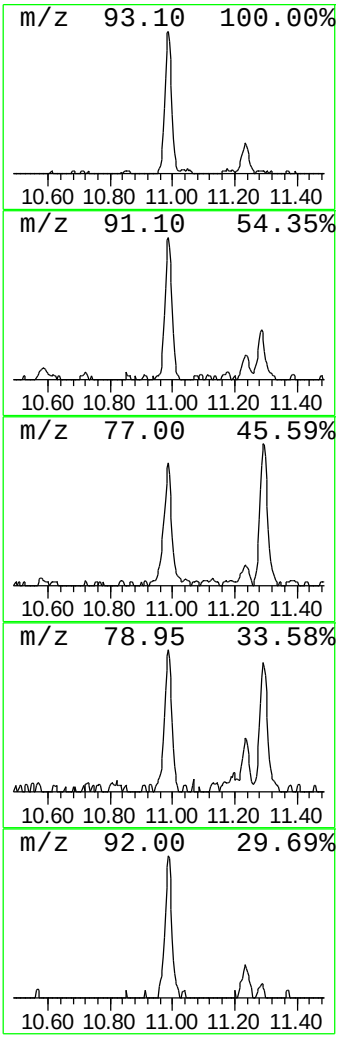
**********

Peak Number 7 3-Carene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.99 | 2.63 ug/L | 86210 | 1,4-Dichlorobenzene-d4 | 11.29 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Carene | 136 | C10H16 | 013466-78-9 | 93 |
| 2 | .gamma.-Terpinene | 136 | C10H16 | 000099-85-4 | 93 |
| 3 | 3-Carene | 136 | C10H16 | 013466-78-9 | 89 |
| 4 | (1S)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16 | 007785-26-4 | 87 |
| 5 | 1,3,7-Octatriene, 3,7-dimethyl- | 136 | C10H16 | 000502-99-8 | 83 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011176.D
Acq On : 31 May 2019 12:43
Operator : SY/MD
Sample : K3017-21
Misc : 4.78G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51F2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

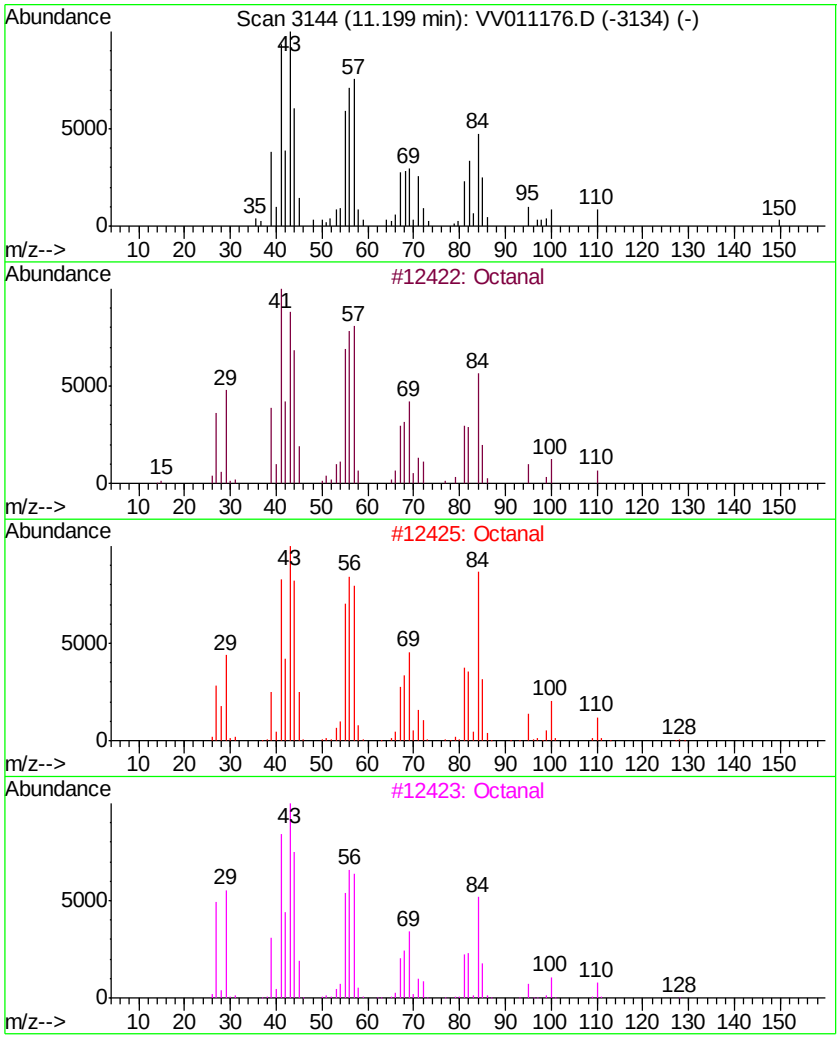
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

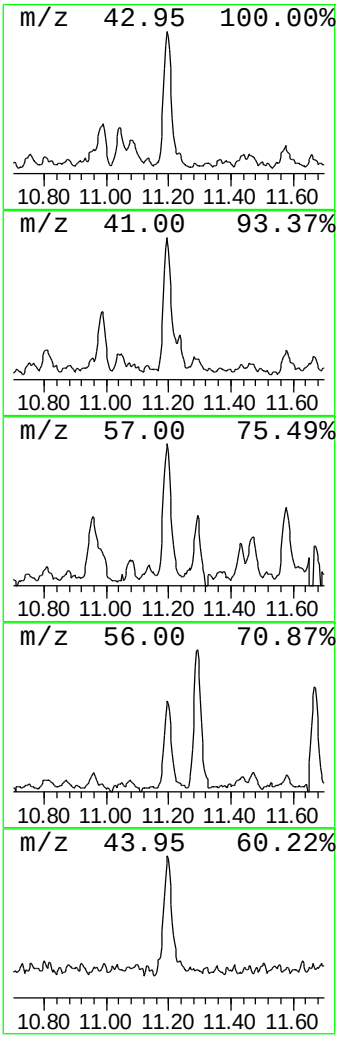
**********

Peak Number 8 Octanal Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.20 | 2.03 ug/L | 66667 | 1,4-Dichlorobenzene-d4 | 11.29 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octanal | 128 | C8H16O | 000124-13-0 | 80 |
| 2 | Octanal | 128 | C8H16O | 000124-13-0 | 80 |
| 3 | Octanal | 128 | C8H16O | 000124-13-0 | 64 |
| 4 | Octanal | 128 | C8H16O | 000124-13-0 | 50 |
| 5 | Cyclopentanol, 2-methyl-, trans- | 100 | C6H12O | 025144-04-1 | 42 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011176.D
Acq On : 31 May 2019 12:43
Operator : SY/MD
Sample : K3017-21
Misc : 4.78G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51F2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

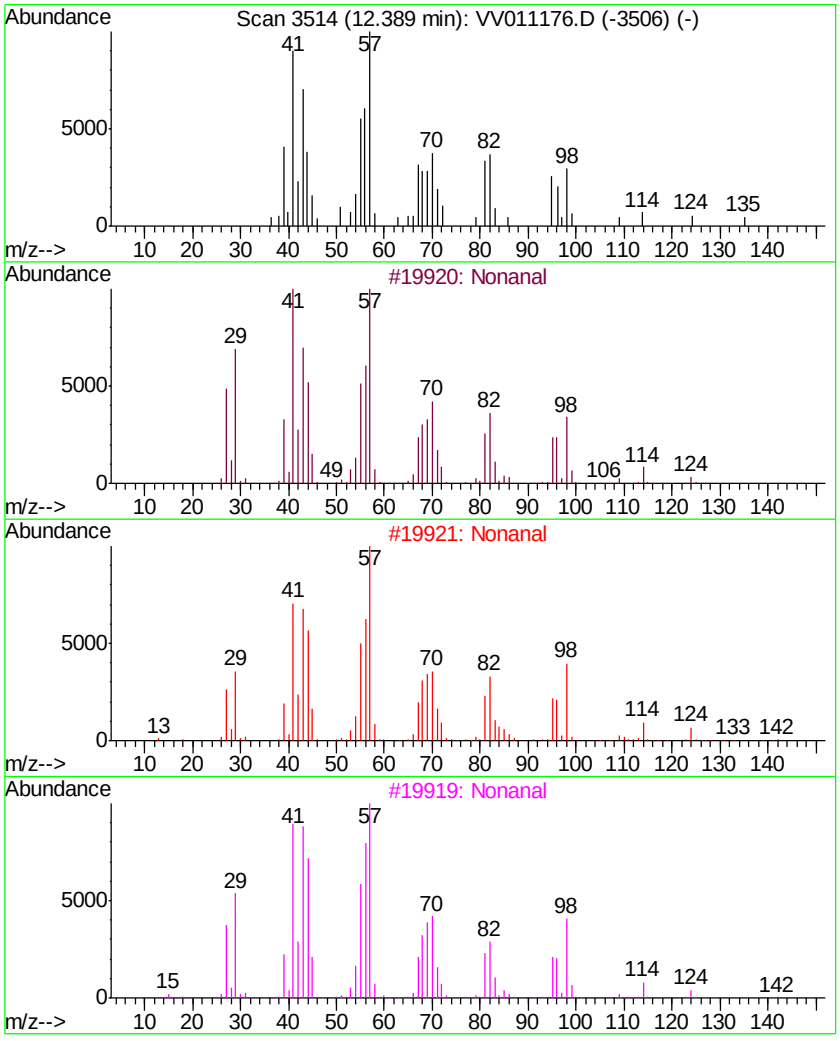
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

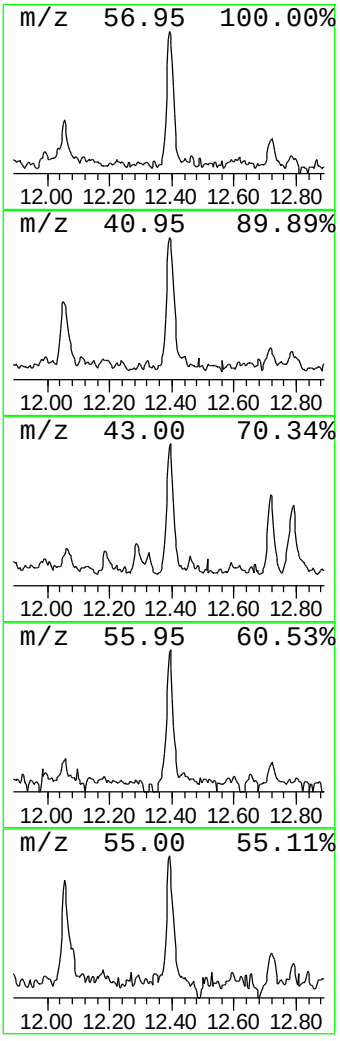
**********

Peak Number 9 Nonanal Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.39 | 1.35 ug/L | 44131 | 1,4-Dichlorobenzene-d4 | 11.29 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonanal | 142 | C9H18O | 000124-19-6 | 91 |
| 2 | Nonanal | 142 | C9H18O | 000124-19-6 | 83 |
| 3 | Nonanal | 142 | C9H18O | 000124-19-6 | 78 |
| 4 | 1,3-Cyclohexanediamine | 114 | C6H14N2 | 003385-21-5 | 46 |
| 5 | Cyclohexanol, 4-methyl-, cis- | 114 | C7H14O | 007731-28-4 | 25 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011176.D
Acq On : 31 May 2019 12:43
Operator : SY/MD
Sample : K3017-21
Misc : 4.78G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** A51F2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.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 | 3.74 | 1.3 | ug/L | 56461 | 1 | 5.66 | 1094950 | 25.0 |
| Butanal, 3-methyl- | 6.32 | 5.5 | ug/L | 242115 | 1 | 5.66 | 1094950 | 25.0 |
| Hexanal | 8.28 | 22.7 | ug/L | 1180960 | 2 | 8.89 | 1301530 | 25.0 |
| Heptanal | 9.85 | 1.6 | ug/L | 85342 | 2 | 8.89 | 1301530 | 25.0 |
| 3-Carene | 10.99 | 2.6 | ug/L | 86210 | 3 | 11.29 | 819823 | 25.0 |
| Octanal | 11.20 | 2.0 | ug/L | 66667 | 3 | 11.29 | 819823 | 25.0 |
| Nonanal | 12.39 | 1.4 | ug/L | 44131 | 3 | 11.29 | 819823 | 25.0 |