

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052819\  
 Data File : VV011075.D  
 Acq On : 28 May 2019 20:48  
 Operator : SY/MD  
 Sample : K3016-03  
 Misc : 5.84G/10ML/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A51C2

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0 % of largest Peak  
 Max Peaks: 100  
 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      | 1.316    | 64         | 70       | 78        | rVB   | 269687      | 245436     | 13.58%       | 1.745%     |
| 2      | 1.386    | 88         | 92       | 99        | rVB   | 42761       | 40567      | 2.24%        | 0.288%     |
| 3      | 1.570    | 142        | 149      | 162       | rVB   | 187307      | 212313     | 11.75%       | 1.510%     |
| 4      | 2.123    | 312        | 321      | 332       | rVV   | 407467      | 581639     | 32.18%       | 4.136%     |
| 5      | 2.187    | 335        | 341      | 353       | rVB   | 70668       | 101503     | 5.62%        | 0.722%     |
| 6      | 2.991    | 588        | 591      | 604       | rVB6  | 4853        | 6164       | 0.34%        | 0.044%     |
| 7      | 3.068    | 605        | 615      | 625       | rVB6  | 7109        | 14033      | 0.78%        | 0.100%     |
| 8      | 3.110    | 625        | 628      | 634       | rBV7  | 1274        | 1190       | 0.07%        | 0.008%     |
| 9      | 3.306    | 683        | 689      | 694       | rVB8  | 1560        | 1814       | 0.10%        | 0.013%     |
| 10     | 3.441    | 728        | 731      | 737       | rVB7  | 1476        | 1191       | 0.07%        | 0.008%     |
| 11     | 3.518    | 753        | 755      | 760       | rVB5  | 1704        | 1292       | 0.07%        | 0.009%     |
| 12     | 3.541    | 760        | 762      | 765       | rBV4  | 1574        | 1345       | 0.07%        | 0.010%     |
| 13     | 3.750    | 816        | 827      | 845       | rBV3  | 27882       | 68916      | 3.81%        | 0.490%     |
| 14     | 3.936    | 874        | 885      | 906       | rBV   | 79074       | 196556     | 10.88%       | 1.398%     |
| 15     | 4.396    | 1007       | 1028     | 1047      | rBV   | 298730      | 717155     | 39.68%       | 5.099%     |
| 16     | 4.766    | 1139       | 1143     | 1148      | rVB8  | 2167        | 1894       | 0.10%        | 0.013%     |
| 17     | 5.090    | 1227       | 1244     | 1269      | rBV2  | 729703      | 1807351    | 100.00%      | 12.851%    |
| 18     | 5.370    | 1321       | 1331     | 1346      | rBV4  | 9956        | 22125      | 1.22%        | 0.157%     |
| 19     | 5.518    | 1373       | 1377     | 1378      | rBV3  | 2076        | 1347       | 0.07%        | 0.010%     |
| 20     | 5.663    | 1407       | 1422     | 1468      | rBV   | 493229      | 1044041    | 57.77%       | 7.423%     |
| 21     | 5.942    | 1501       | 1509     | 1512      | rBV10 | 2610        | 3182       | 0.18%        | 0.023%     |
| 22     | 6.116    | 1548       | 1563     | 1584      | rBV   | 424926      | 859415     | 47.55%       | 6.111%     |
| 23     | 6.328    | 1619       | 1629     | 1648      | rBV   | 90520       | 175893     | 9.73%        | 1.251%     |
| 24     | 6.486    | 1676       | 1678     | 1683      | rVB5  | 1615        | 1210       | 0.07%        | 0.009%     |
| 25     | 6.627    | 1717       | 1722     | 1725      | rBV7  | 1314        | 1145       | 0.06%        | 0.008%     |
| 26     | 6.650    | 1725       | 1729     | 1731      | rBV4  | 1709        | 1362       | 0.08%        | 0.010%     |
| 27     | 6.701    | 1739       | 1745     | 1754      | rVB10 | 2817        | 4905       | 0.27%        | 0.035%     |
| 28     | 6.894    | 1800       | 1805     | 1810      | rBV8  | 1248        | 1503       | 0.08%        | 0.011%     |
| 29     | 7.029    | 1835       | 1847     | 1864      | rBV   | 251960      | 450894     | 24.95%       | 3.206%     |
| 30     | 7.180    | 1889       | 1894     | 1895      | rBV3  | 2828        | 2207       | 0.12%        | 0.016%     |
| 31     | 7.267    | 1917       | 1921     | 1928      | rBV10 | 1944        | 2868       | 0.16%        | 0.020%     |
| 32     | 7.357    | 1928       | 1949     | 1969      | rBV   | 823081      | 1495770    | 82.76%       | 10.635%    |
| 33     | 7.608    | 2020       | 2027     | 2032      | rBV8  | 3264        | 4234       | 0.23%        | 0.030%     |
| 34     | 7.663    | 2033       | 2044     | 2063      | rVV   | 160923      | 278246     | 15.40%       | 1.978%     |

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 MSVOA\_V  
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 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0 % of largest Peak  
 Max Peaks: 100  
 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 | 7.749  | 2065 | 2071 | 2084 | rVB8  | 9112   | 16314   | 0.90%  | 0.116% |
| 36 | 7.978  | 2132 | 2142 | 2155 | rVV3  | 8886   | 17412   | 0.96%  | 0.124% |
| 37 | 8.132  | 2179 | 2190 | 2222 | rVV   | 300749 | 548908  | 30.37% | 3.903% |
| 38 | 8.280  | 2224 | 2236 | 2261 | rVV   | 540232 | 898473  | 49.71% | 6.388% |
| 39 | 8.711  | 2366 | 2370 | 2373 | rBV6  | 1688   | 1524    | 0.08%  | 0.011% |
| 40 | 8.730  | 2374 | 2376 | 2381 | rVB5  | 1793   | 1301    | 0.07%  | 0.009% |
| 41 | 8.833  | 2402 | 2408 | 2411 | rBV5  | 1168   | 1215    | 0.07%  | 0.009% |
| 42 | 8.894  | 2411 | 2427 | 2451 | rBV   | 707009 | 1203287 | 66.58% | 8.556% |
| 43 | 9.061  | 2477 | 2479 | 2486 | rVB7  | 2684   | 2291    | 0.13%  | 0.016% |
| 44 | 9.106  | 2489 | 2493 | 2497 | rVB6  | 1172   | 1222    | 0.07%  | 0.009% |
| 45 | 9.132  | 2497 | 2501 | 2503 | rBV4  | 2040   | 1553    | 0.09%  | 0.011% |
| 46 | 9.183  | 2509 | 2517 | 2525 | rBV8  | 5516   | 9100    | 0.50%  | 0.065% |
| 47 | 9.270  | 2531 | 2544 | 2554 | rBV5  | 11512  | 31436   | 1.74%  | 0.224% |
| 48 | 9.354  | 2564 | 2570 | 2580 | rVB5  | 15670  | 23355   | 1.29%  | 0.166% |
| 49 | 9.441  | 2592 | 2597 | 2600 | rBV7  | 1668   | 1293    | 0.07%  | 0.009% |
| 50 | 9.540  | 2624 | 2628 | 2631 | rBV5  | 2211   | 1852    | 0.10%  | 0.013% |
| 51 | 9.749  | 2691 | 2693 | 2696 | rBV4  | 1857   | 1331    | 0.07%  | 0.009% |
| 52 | 9.852  | 2713 | 2725 | 2738 | rBV2  | 57448  | 98546   | 5.45%  | 0.701% |
| 53 | 9.971  | 2758 | 2762 | 2763 | rVV3  | 1844   | 1344    | 0.07%  | 0.010% |
| 54 | 9.994  | 2763 | 2769 | 2778 | rVB6  | 8538   | 13960   | 0.77%  | 0.099% |
| 55 | 10.052 | 2784 | 2787 | 2789 | rBV4  | 1682   | 1382    | 0.08%  | 0.010% |
| 56 | 10.261 | 2840 | 2852 | 2871 | rBV   | 354029 | 554209  | 30.66% | 3.941% |
| 57 | 10.425 | 2886 | 2903 | 2912 | rVV3  | 17334  | 32942   | 1.82%  | 0.234% |
| 58 | 10.498 | 2920 | 2926 | 2929 | rBV8  | 2033   | 2180    | 0.12%  | 0.016% |
| 59 | 10.556 | 2934 | 2944 | 2946 | rBV9  | 5176   | 7197    | 0.40%  | 0.051% |
| 60 | 10.627 | 2959 | 2966 | 2972 | rBV2  | 10616  | 14200   | 0.79%  | 0.101% |
| 61 | 10.752 | 2995 | 3005 | 3015 | rVV9  | 10040  | 20313   | 1.12%  | 0.144% |
| 62 | 10.810 | 3015 | 3023 | 3036 | rVB6  | 11178  | 22854   | 1.26%  | 0.162% |
| 63 | 10.978 | 3062 | 3075 | 3092 | rVB10 | 11522  | 31677   | 1.75%  | 0.225% |
| 64 | 11.135 | 3121 | 3124 | 3131 | rVV6  | 1918   | 2180    | 0.12%  | 0.016% |
| 65 | 11.196 | 3133 | 3143 | 3161 | rVV   | 47880  | 87213   | 4.83%  | 0.620% |
| 66 | 11.296 | 3162 | 3174 | 3192 | rVB   | 495129 | 811887  | 44.92% | 5.773% |
| 67 | 11.434 | 3215 | 3217 | 3223 | rBV7  | 1475   | 1368    | 0.08%  | 0.010% |
| 68 | 11.466 | 3223 | 3227 | 3236 | rVB10 | 2892   | 4235    | 0.23%  | 0.030% |
| 69 | 11.579 | 3253 | 3262 | 3270 | rBV3  | 13787  | 23275   | 1.29%  | 0.165% |
| 70 | 11.672 | 3278 | 3291 | 3304 | rBV   | 501602 | 822916  | 45.53% | 5.851% |
| 71 | 11.823 | 3333 | 3338 | 3345 | rBV8  | 3624   | 4793    | 0.27%  | 0.034% |

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Instrument :  
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 ClientSampleId :  
 A51C2

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0 % of largest Peak  
 Max Peaks: 100  
 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  | 11.994 | 3386 | 3391 | 3399 | rVB8 | 3951  | 5414   | 0.30% | 0.038% |
| 73  | 12.055 | 3399 | 3410 | 3427 | rBV4 | 20420 | 39535  | 2.19% | 0.281% |
| 74  | 12.186 | 3448 | 3451 | 3457 | rVB8 | 1575  | 1591   | 0.09% | 0.011% |
| 75  | 12.241 | 3463 | 3468 | 3472 | rVB6 | 1429  | 1553   | 0.09% | 0.011% |
| 76  | 12.296 | 3472 | 3485 | 3501 | rBV  | 18989 | 34030  | 1.88% | 0.242% |
| 77  | 12.392 | 3506 | 3515 | 3528 | rVV2 | 36866 | 57613  | 3.19% | 0.410% |
| 78  | 12.566 | 3561 | 3569 | 3572 | rBV9 | 1060  | 1241   | 0.07% | 0.009% |
| 79  | 12.720 | 3603 | 3617 | 3625 | rBV3 | 11207 | 21628  | 1.20% | 0.154% |
| 80  | 12.791 | 3630 | 3639 | 3641 | rBV8 | 5082  | 6039   | 0.33% | 0.043% |
| 81  | 12.929 | 3675 | 3682 | 3691 | rBV8 | 4198  | 7270   | 0.40% | 0.052% |
| 82  | 12.997 | 3698 | 3703 | 3704 | rBV4 | 1998  | 1597   | 0.09% | 0.011% |
| 83  | 13.045 | 3712 | 3718 | 3721 | rVB9 | 2288  | 2358   | 0.13% | 0.017% |
| 84  | 13.106 | 3730 | 3737 | 3746 | rBV9 | 2892  | 4520   | 0.25% | 0.032% |
| 85  | 13.186 | 3755 | 3762 | 3775 | rVB9 | 10580 | 19498  | 1.08% | 0.139% |
| 86  | 13.479 | 3848 | 3853 | 3862 | rVB8 | 6088  | 8754   | 0.48% | 0.062% |
| 87  | 13.553 | 3870 | 3876 | 3879 | rBV8 | 2872  | 3549   | 0.20% | 0.025% |
| 88  | 13.633 | 3894 | 3901 | 3910 | rBV3 | 10262 | 17065  | 0.94% | 0.121% |
| 89  | 13.862 | 3967 | 3972 | 3974 | rBV5 | 2470  | 2089   | 0.12% | 0.015% |
| 90  | 14.090 | 4029 | 4043 | 4056 | rBV2 | 66956 | 128219 | 7.09% | 0.912% |
| 91  | 14.228 | 4080 | 4086 | 4094 | rVB9 | 5844  | 8281   | 0.46% | 0.059% |
| 92  | 14.312 | 4110 | 4112 | 4118 | rVB6 | 1674  | 1284   | 0.07% | 0.009% |
| 93  | 14.379 | 4125 | 4133 | 4141 | rBV7 | 5055  | 8171   | 0.45% | 0.058% |
| 94  | 14.685 | 4221 | 4228 | 4229 | rBV6 | 2545  | 2558   | 0.14% | 0.018% |
| 95  | 14.865 | 4280 | 4284 | 4286 | rBV4 | 1748  | 1241   | 0.07% | 0.009% |
| 96  | 14.881 | 4287 | 4289 | 4294 | rVB6 | 1517  | 1150   | 0.06% | 0.008% |
| 97  | 15.074 | 4347 | 4349 | 4355 | rVB6 | 1635  | 1717   | 0.10% | 0.012% |
| 98  | 15.112 | 4357 | 4361 | 4364 | rBV6 | 1398  | 1435   | 0.08% | 0.010% |
| 99  | 15.418 | 4450 | 4456 | 4457 | rBV6 | 2199  | 2434   | 0.13% | 0.017% |
| 100 | 15.556 | 4496 | 4499 | 4501 | rBV3 | 1767  | 1241   | 0.07% | 0.009% |

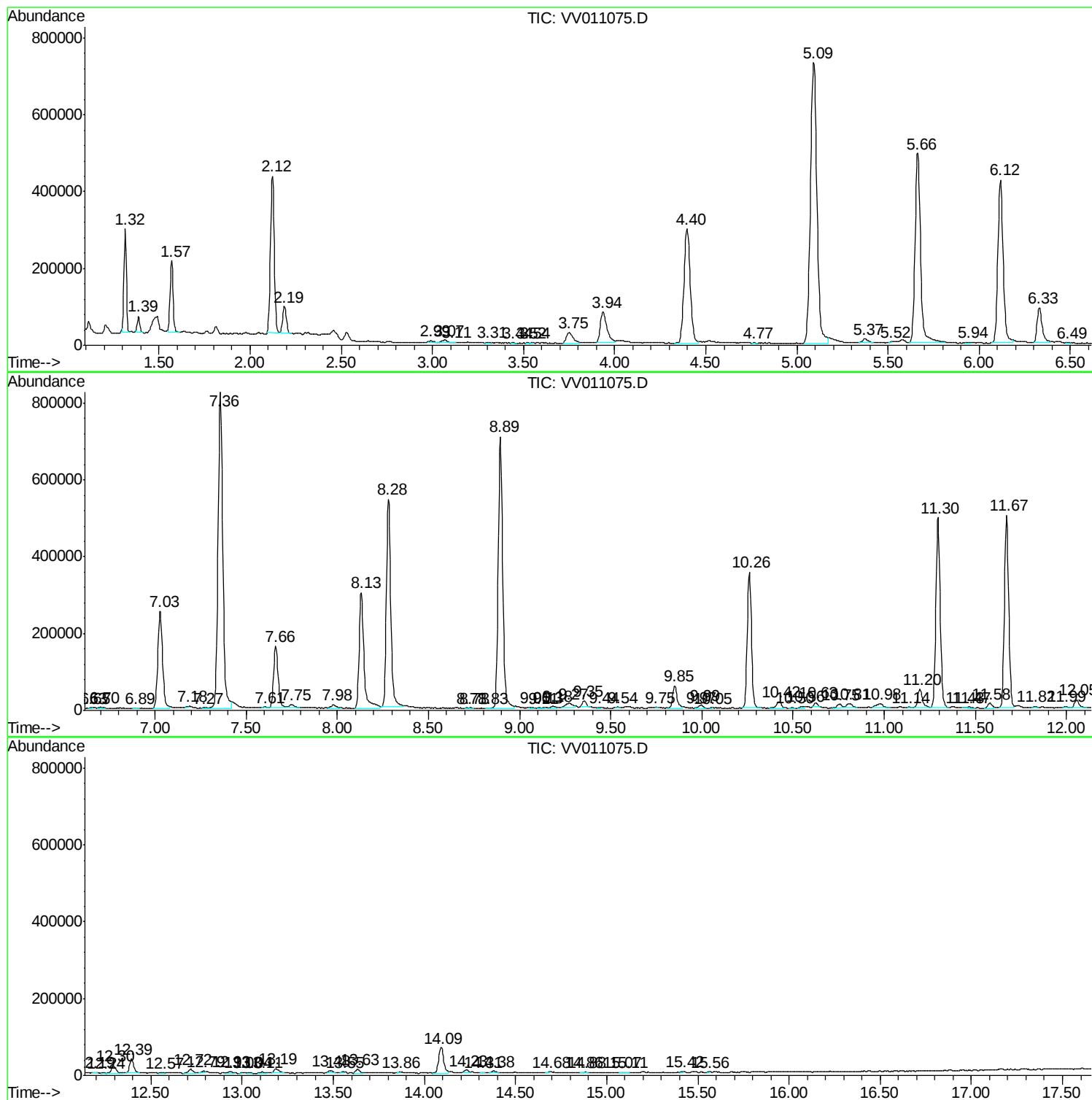
Sum of corrected areas: 14064319

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052819S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV052819\  
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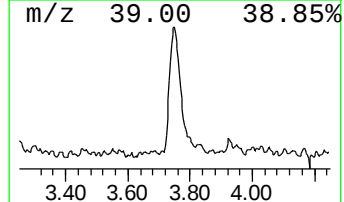
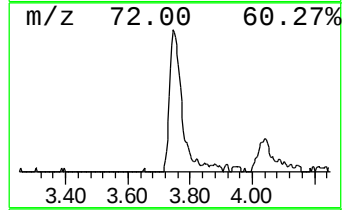
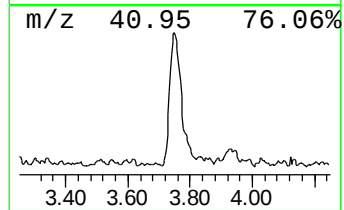
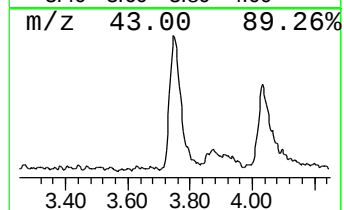
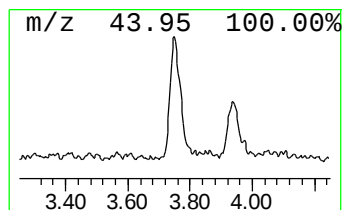
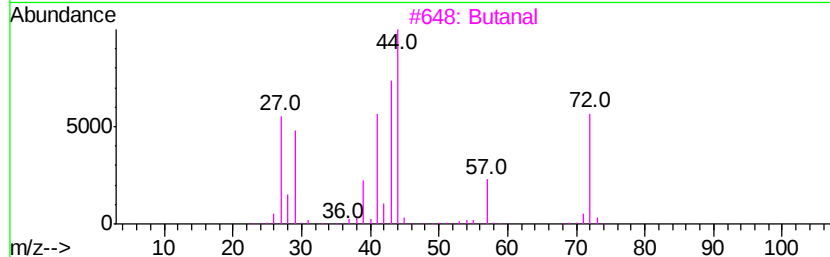
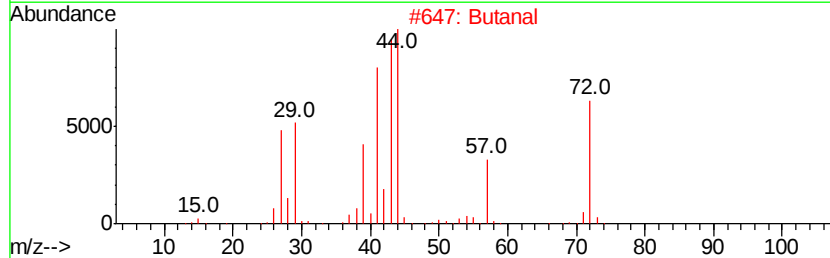
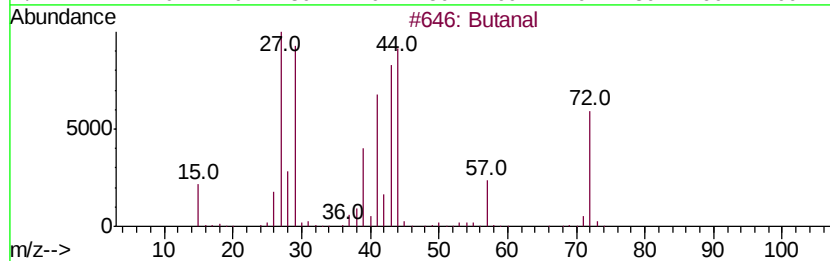
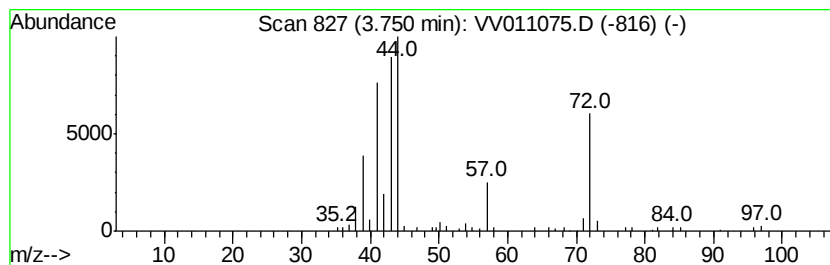
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052819S.M  
Quant Title : VOC Analysis

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

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Peak Number 1 Butanal Concentration Rank 8

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 3.75 | 1.65 ug/L | 68916 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of              | 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|-----------------|---|--------------|----|---------|-------------|------|
| 1    | Butanal         |   |              | 72 | C4H8O   | 000123-72-8 | 91   |
| 2    | Butanal         |   |              | 72 | C4H8O   | 000123-72-8 | 91   |
| 3    | Butanal         |   |              | 72 | C4H8O   | 000123-72-8 | 68   |
| 4    | Butanal         |   |              | 72 | C4H8O   | 000123-72-8 | 58   |
| 5    | Ethene, ethoxy- |   |              | 72 | C4H8O   | 000109-92-2 | 50   |



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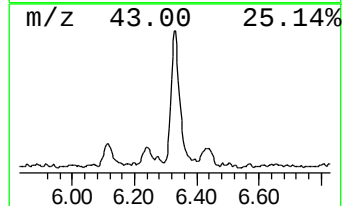
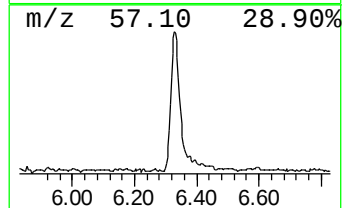
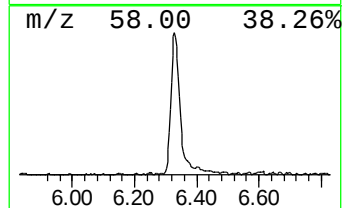
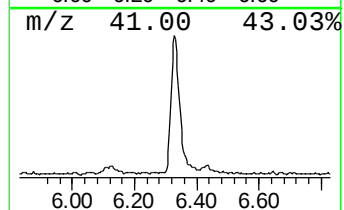
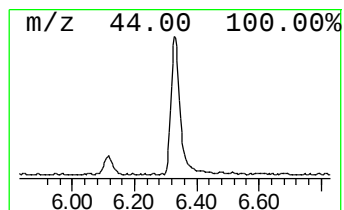
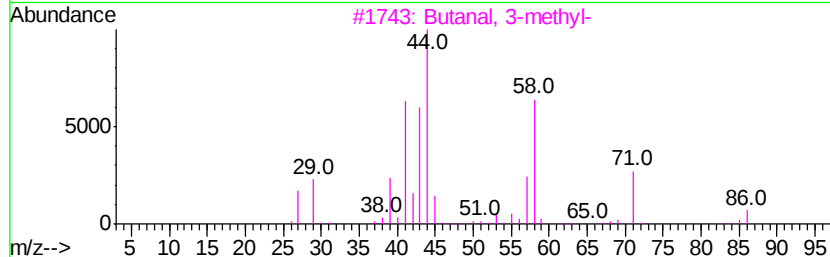
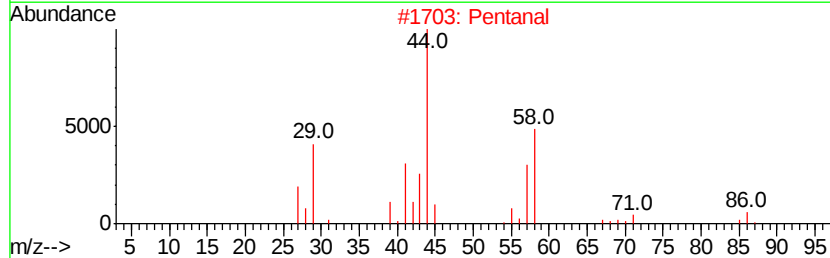
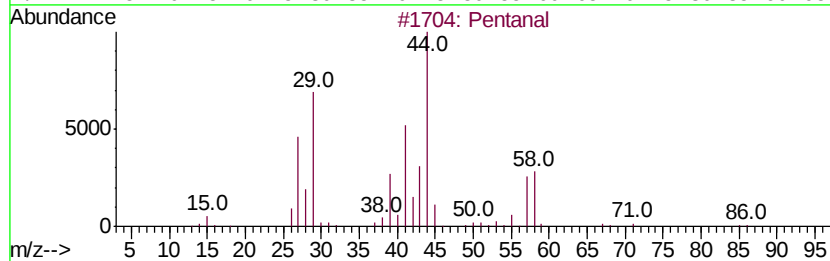
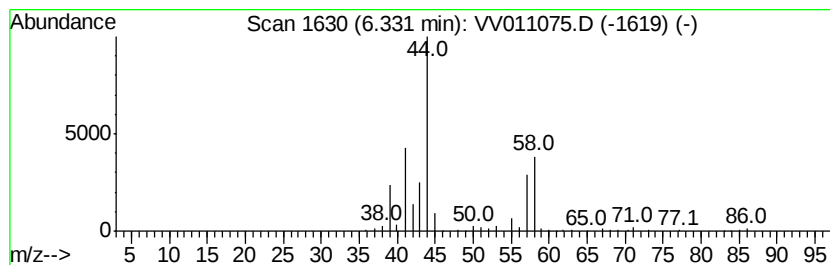
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Quant Title : VOC Analysis

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 | 4.21 ug/L | 175893 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of | Tentative ID       | MW | MolForm | CAS#        | Qual |
|------|----|--------------------|----|---------|-------------|------|
| 1    | 5  | Pentanal           | 86 | C5H10O  | 000110-62-3 | 72   |
| 2    |    | Pentanal           | 86 | C5H10O  | 000110-62-3 | 64   |
| 3    |    | Butanal, 3-methyl- | 86 | C5H10O  | 000590-86-3 | 45   |
| 4    |    | Pentanal           | 86 | C5H10O  | 000110-62-3 | 42   |
| 5    |    | Butanal, 3-methyl- | 86 | C5H10O  | 000590-86-3 | 33   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV052819\  
Data File : VV011075.D  
Acq On : 28 May 2019 20:48  
Operator : SY/MD  
Sample : K3016-03  
Misc : 5.84G/10ML/MSVOA V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A51C2

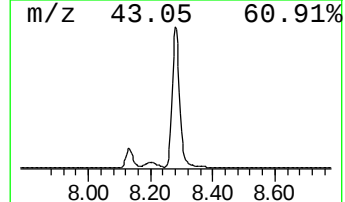
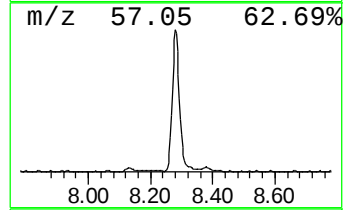
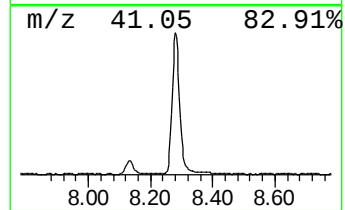
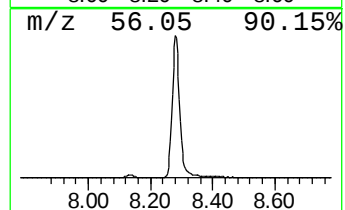
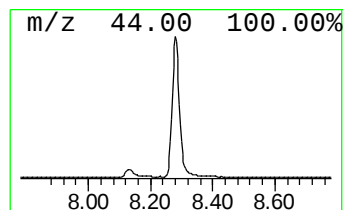
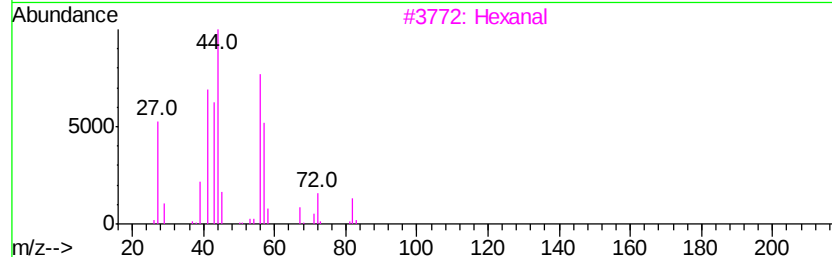
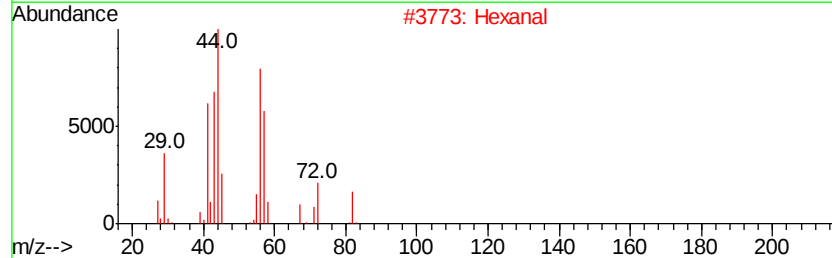
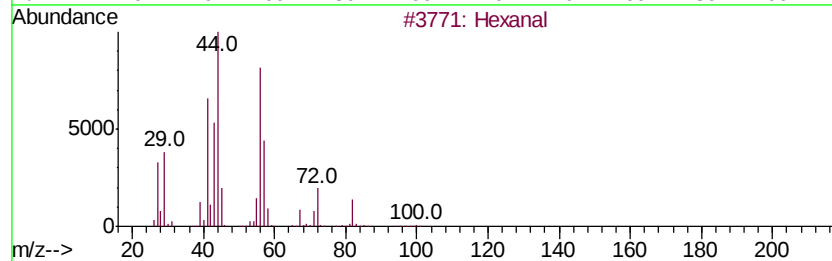
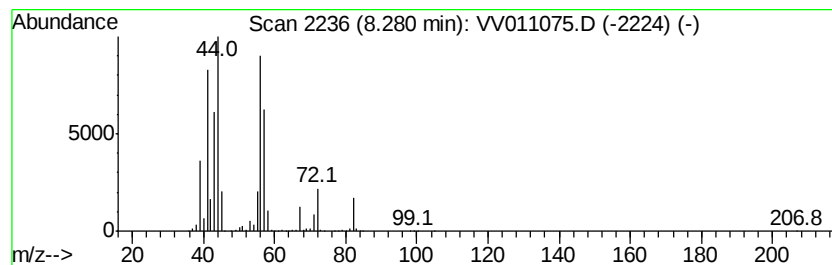
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Quant Title : VOC Analysis

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 | 18.67 ug/L | 898473 | Chlorobenzene-d5 | 8.89 |

| Hit# | of | Tentative ID   | MW  | MolForm | CAS#        | Qual |
|------|----|----------------|-----|---------|-------------|------|
| 1    | 5  | Hexanal        | 100 | C6H12O  | 000066-25-1 | 90   |
| 2    |    | Hexanal        | 100 | C6H12O  | 000066-25-1 | 90   |
| 3    |    | Hexanal        | 100 | C6H12O  | 000066-25-1 | 90   |
| 4    |    | Hexanal        | 100 | C6H12O  | 000066-25-1 | 78   |
| 5    |    | Glutaraldehyde | 100 | C5H8O2  | 000111-30-8 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV052819\  
Data File : VV011075.D  
Acq On : 28 May 2019 20:48  
Operator : SY/MD  
Sample : K3016-03  
Misc : 5.84G/10ML/MSVOA V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A51C2

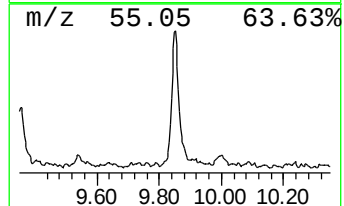
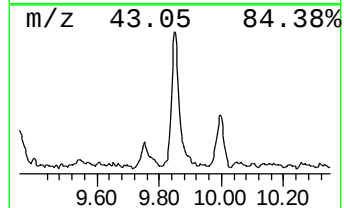
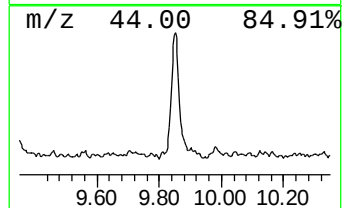
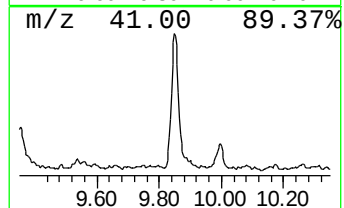
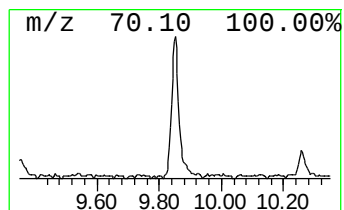
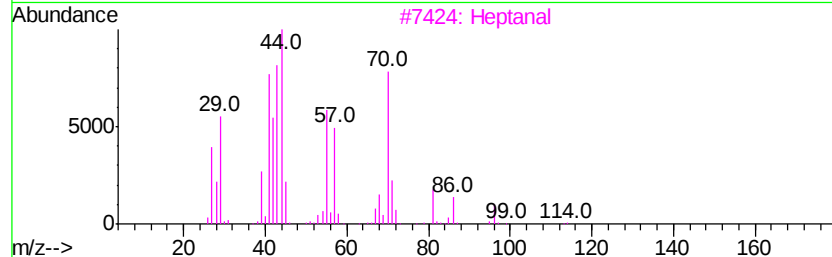
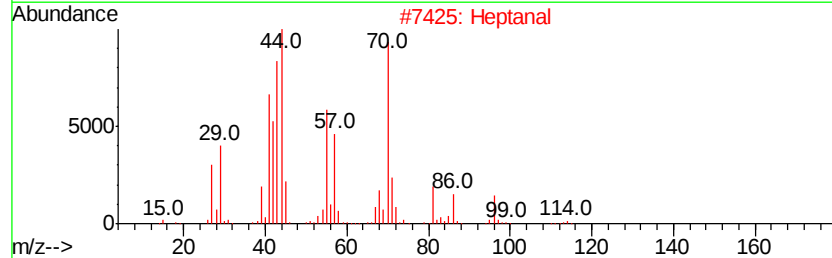
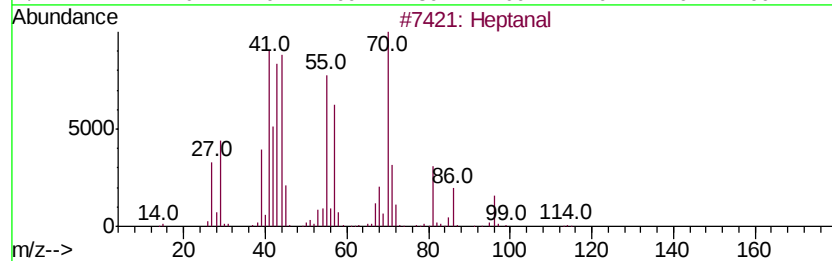
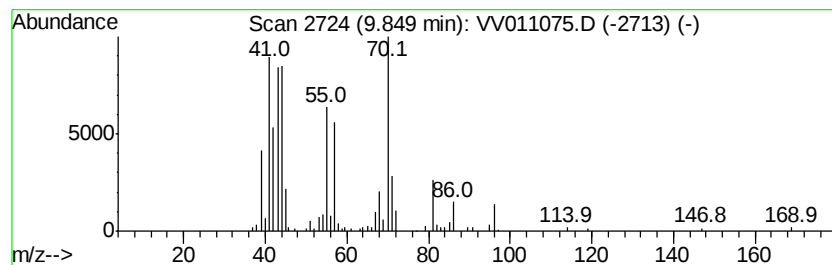
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Quant Title : VOC Analysis

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

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Peak Number 5 Heptanal Concentration Rank 6

| R.T. | EstConc   | Area  | Relative to ISTD | R.T. |
|------|-----------|-------|------------------|------|
| 9.85 | 2.05 ug/L | 98546 | Chlorobenzene-d5 | 8.89 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptanal                            | 114 | C7H14O  | 000111-71-7 | 97   |
| 2    |    | Heptanal                            | 114 | C7H14O  | 000111-71-7 | 96   |
| 3    |    | Heptanal                            | 114 | C7H14O  | 000111-71-7 | 80   |
| 4    |    | Oxirane, 2-(1,1-dimethylethyl)-3... | 114 | C7H14O  | 053897-30-6 | 43   |
| 5    |    | Heptanal                            | 114 | C7H14O  | 000111-71-7 | 42   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV052819\  
Data File : VV011075.D  
Acq On : 28 May 2019 20:48  
Operator : SY/MD  
Sample : K3016-03  
Misc : 5.84G/10ML/MSVOA V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A51C2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052819S.M  
Quant Title : VOC Analysis

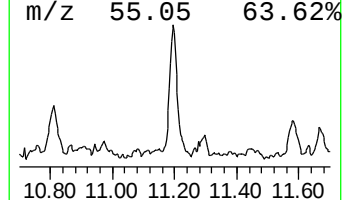
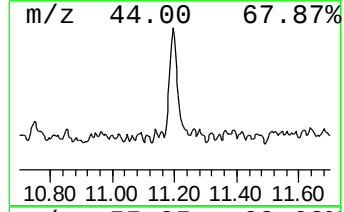
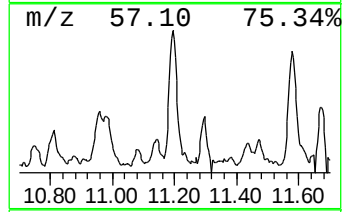
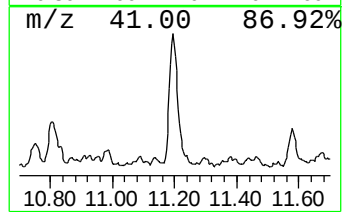
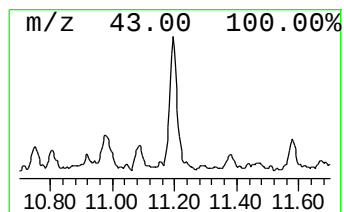
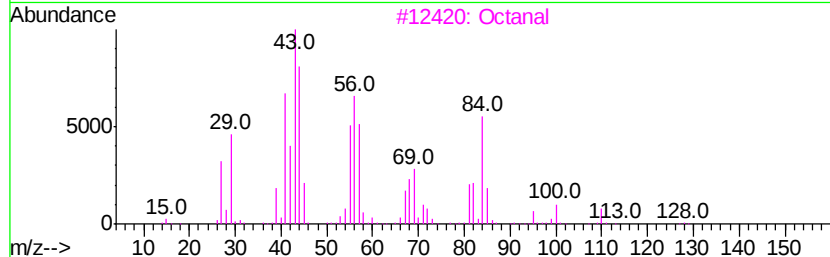
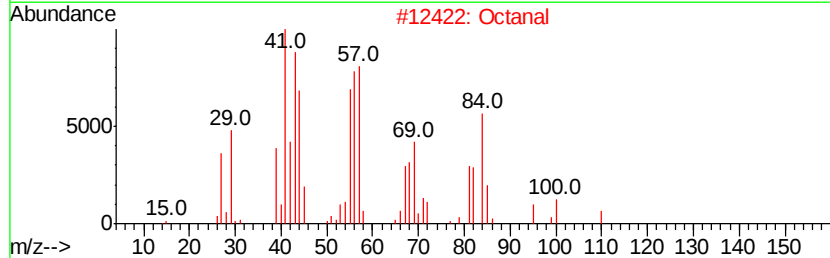
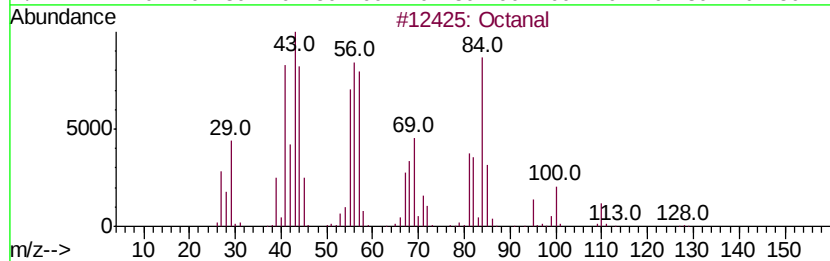
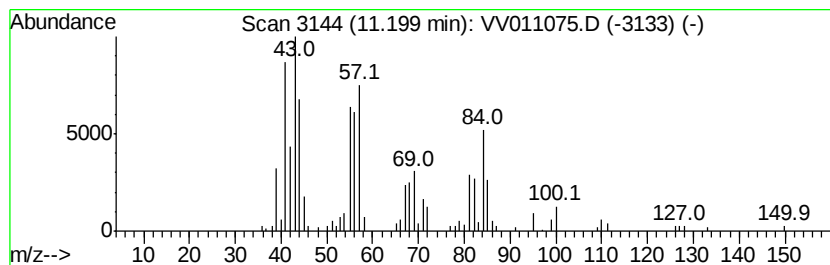
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 Octanal Concentration Rank 5

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 11.20 | 2.69 ug/L | 87213 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Octanal      | 128 | C8H16O  | 000124-13-0 | 91   |
| 2    |    | Octanal      | 128 | C8H16O  | 000124-13-0 | 91   |
| 3    |    | Octanal      | 128 | C8H16O  | 000124-13-0 | 86   |
| 4    |    | Octanal      | 128 | C8H16O  | 000124-13-0 | 86   |
| 5    |    | Octanal      | 128 | C8H16O  | 000124-13-0 | 78   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV052819\  
Data File : VV011075.D  
Acq On : 28 May 2019 20:48  
Operator : SY/MD  
Sample : K3016-03  
Misc : 5.84G/10ML/MSVOA V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A51C2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052819S.M  
Quant Title : VOC Analysis

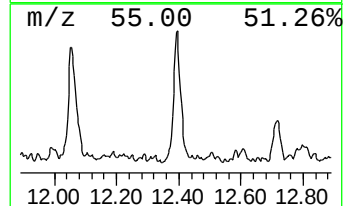
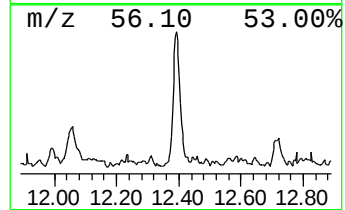
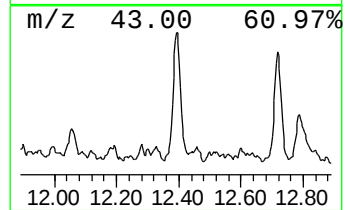
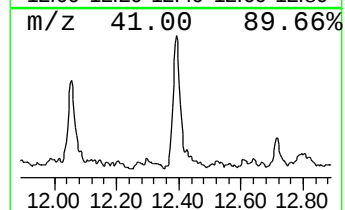
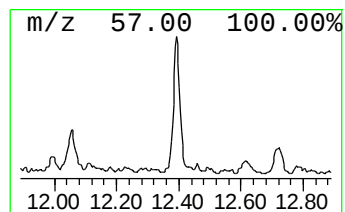
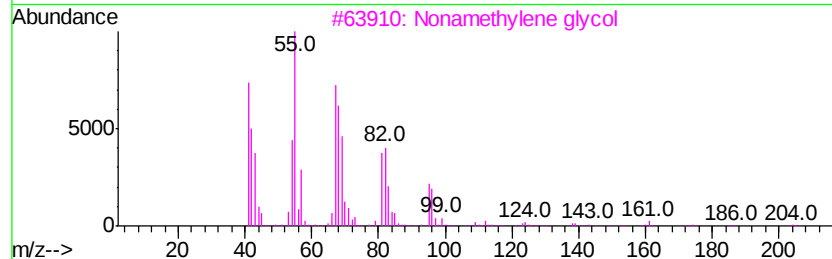
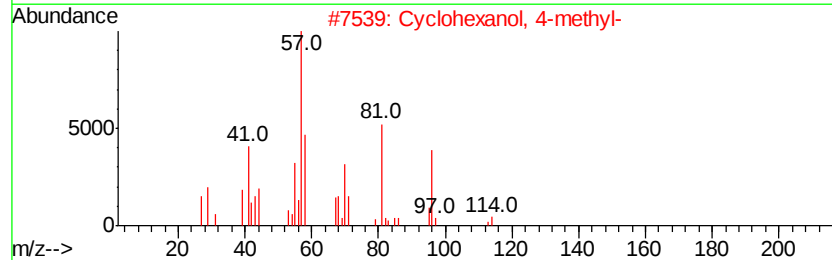
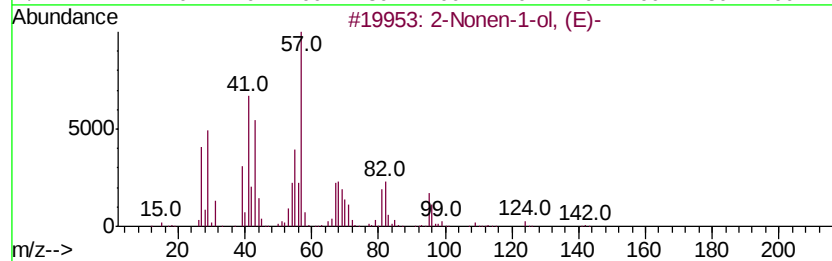
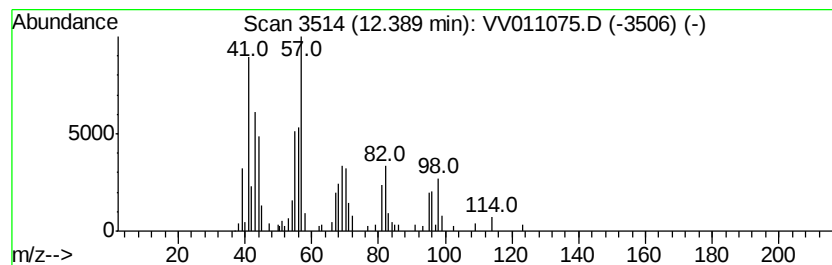
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 unknown-01 Concentration Rank 7

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 12.39 | 1.77 ug/L | 57613 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# | of | Tentative ID            | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------|-----|----------|--------------|------|
| 1    | 5  | 2-Nonen-1-ol, (E)-      | 142 | C9H18O   | 031502-14-4  | 35   |
| 2    |    | Cyclohexanol, 4-methyl- | 114 | C7H14O   | 000589-91-3  | 27   |
| 3    |    | Nonamethylene glycol    | 204 | C11H24O3 | 1000129-54-8 | 22   |
| 4    |    | 2-Heptene               | 98  | C7H14    | 000592-77-8  | 22   |
| 5    |    | 2-Nonen-1-ol            | 142 | C9H18O   | 022104-79-6  | 22   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV052819\  
Data File : VV011075.D  
Acq On : 28 May 2019 20:48  
Operator : SY/MD  
Sample : K3016-03  
Misc : 5.84G/10ML/MSVOA V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

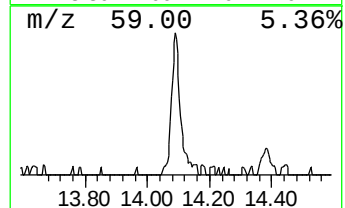
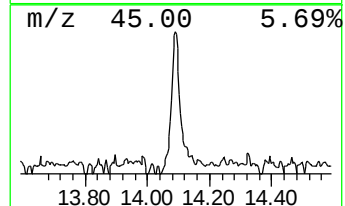
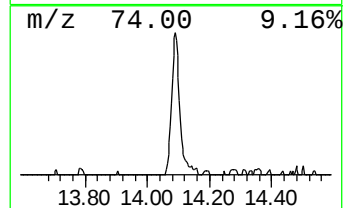
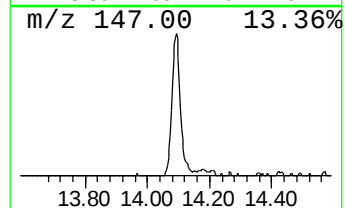
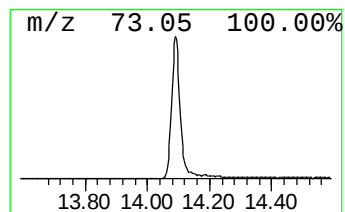
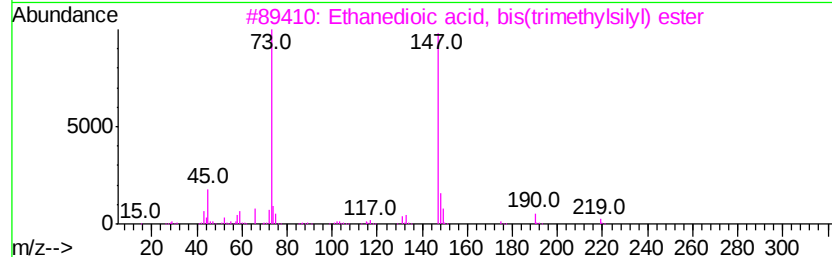
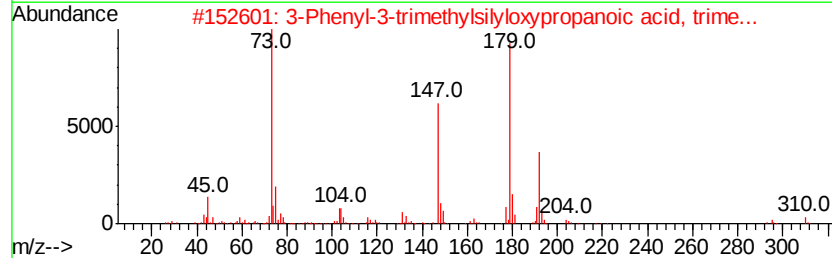
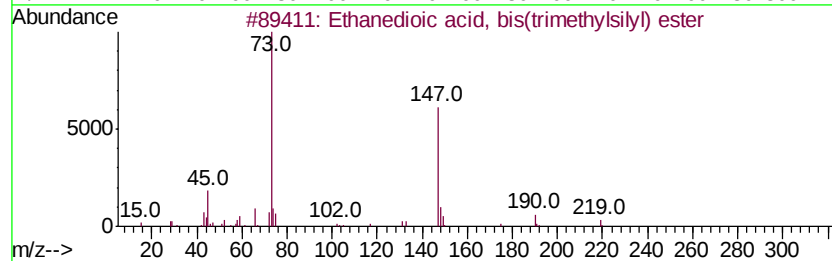
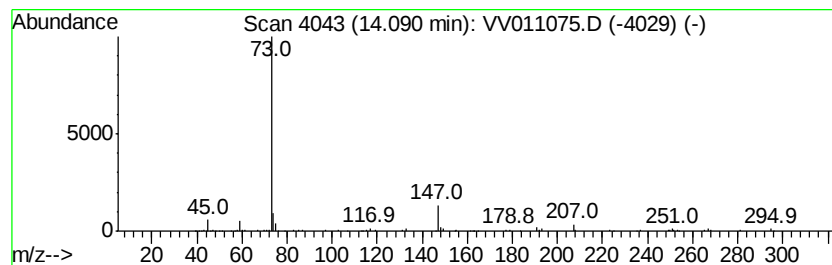
Instrument :  
MSVOA\_V  
ClientSampleId :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052819S.M  
Quant Title : VOC Analysis

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

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Peak Number 8 unknown-02 Concentration Rank 4

| R.T.    | EstConc   | Area                                | Relative to ISTD       | R.T.            |
|---------|-----------|-------------------------------------|------------------------|-----------------|
| 14.09   | 3.95 ug/L | 128219                              | 1,4-Dichlorobenzene-d4 | 11.30           |
| Hit# of | 5         | Tentative ID                        | MW MolForm             | CAS# Qual       |
| 1       |           | Ethanedioic acid, bis(trimethyls... | 234 C8H1804Si2         | 018294-04-7 45  |
| 2       |           | 3-Phenyl-3-trimethylsilyloxyprop... | 310 C15H2603Si2        | 1000079-40-7 39 |
| 3       |           | Ethanedioic acid, bis(trimethyls... | 234 C8H1804Si2         | 018294-04-7 38  |
| 4       |           | 2-Phenyl-2-trimethylsilyloxyprop... | 310 C15H2603Si2        | 082326-12-3 35  |
| 5       |           | Butanedioic acid, 2-[(tert-butyl... | 476 C22H4805Si3        | 099461-86-6 33  |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV052819\  
Data File : VV011075.D  
Acq On : 28 May 2019 20:48  
Operator : SY/MD  
Sample : K3016-03  
Misc : 5.84G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A51C2

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

| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                  |       |         |       |          | #                     | RT    | Resp    | Conc |
| Butanal          | 3.75  | 1.6     | ug/L  | 68916    | 1                     | 5.66  | 1044040 | 25.0 |
| Pentanal         | 6.33  | 4.2     | ug/L  | 175893   | 1                     | 5.66  | 1044040 | 25.0 |
| Hexanal          | 8.28  | 18.7    | ug/L  | 898473   | 2                     | 8.89  | 1203290 | 25.0 |
| Heptanal         | 9.85  | 2.0     | ug/L  | 98546    | 2                     | 8.89  | 1203290 | 25.0 |
| Octanal          | 11.20 | 2.7     | ug/L  | 87213    | 3                     | 11.30 | 811887  | 25.0 |
| unknown-01       | 12.39 | 1.8     | ug/L  | 57613    | 3                     | 11.30 | 811887  | 25.0 |
| unknown-02       | 14.09 | 4.0     | ug/L  | 128219   | 3                     | 11.30 | 811887  | 25.0 |