

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV052319\  
 Data File : VV011051.D  
 Acq On : 24 May 2019 04:35  
 Operator : SY/MD  
 Sample : K3016-19  
 Misc : 4.85G/10ML/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A51D6

## 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\SOM2VLM052019S.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      | 1.206    | 31         | 36       | 58        | rVB2  | 13027       | 25481      | 8.39%        | 1.107%     |
| 2      | 1.315    | 64         | 70       | 84        | rVB   | 30130       | 31340      | 10.32%       | 1.362%     |
| 3      | 1.386    | 86         | 92       | 101       | rVB   | 17315       | 18633      | 6.13%        | 0.810%     |
| 4      | 1.563    | 141        | 147      | 158       | rVB   | 21367       | 24824      | 8.17%        | 1.079%     |
| 5      | 1.811    | 217        | 224      | 235       | rVB   | 5161        | 6595       | 2.17%        | 0.287%     |
| 6      | 2.042    | 292        | 296      | 297       | rBV2  | 773         | 538        | 0.18%        | 0.023%     |
| 7      | 2.119    | 309        | 320      | 331       | rVB2  | 52485       | 81239      | 26.75%       | 3.530%     |
| 8      | 2.187    | 331        | 341      | 354       | rVV   | 13555       | 20730      | 6.83%        | 0.901%     |
| 9      | 2.232    | 354        | 355      | 362       | rVV4  | 704         | 635        | 0.21%        | 0.028%     |
| 10     | 2.264    | 363        | 365      | 371       | rVB3  | 802         | 547        | 0.18%        | 0.024%     |
| 11     | 2.312    | 371        | 380      | 393       | rVB4  | 3535        | 6256       | 2.06%        | 0.272%     |
| 12     | 2.457    | 415        | 425      | 435       | rVV2  | 10791       | 17221      | 5.67%        | 0.748%     |
| 13     | 2.531    | 439        | 448      | 456       | rBV2  | 3514        | 5360       | 1.76%        | 0.233%     |
| 14     | 2.643    | 479        | 483      | 485       | rBV2  | 384         | 296        | 0.10%        | 0.013%     |
| 15     | 2.994    | 584        | 592      | 602       | rVB3  | 1510        | 2633       | 0.87%        | 0.114%     |
| 16     | 3.061    | 604        | 613      | 626       | rBV6  | 2435        | 4573       | 1.51%        | 0.199%     |
| 17     | 3.148    | 637        | 640      | 643       | rVB   | 359         | 295        | 0.10%        | 0.013%     |
| 18     | 3.171    | 643        | 647      | 652       | rBV2  | 339         | 521        | 0.17%        | 0.023%     |
| 19     | 3.206    | 653        | 658      | 663       | rBV2  | 740         | 905        | 0.30%        | 0.039%     |
| 20     | 3.303    | 685        | 688      | 693       | rBV2  | 205         | 236        | 0.08%        | 0.010%     |
| 21     | 3.614    | 779        | 785      | 789       | rVB2  | 218         | 286        | 0.09%        | 0.012%     |
| 22     | 3.637    | 789        | 792      | 797       | rVB2  | 236         | 252        | 0.08%        | 0.011%     |
| 23     | 3.746    | 816        | 826      | 845       | rBV6  | 2596        | 6919       | 2.28%        | 0.301%     |
| 24     | 3.936    | 874        | 885      | 903       | rBV2  | 16340       | 41376      | 13.62%       | 1.798%     |
| 25     | 4.039    | 914        | 917      | 924       | rVB4  | 604         | 736        | 0.24%        | 0.032%     |
| 26     | 4.106    | 936        | 938      | 942       | rVB4  | 336         | 235        | 0.08%        | 0.010%     |
| 27     | 4.396    | 1011       | 1028     | 1051      | rVV   | 46022       | 113978     | 37.53%       | 4.952%     |
| 28     | 4.515    | 1059       | 1065     | 1076      | rVB4  | 768         | 1211       | 0.40%        | 0.053%     |
| 29     | 4.701    | 1118       | 1123     | 1128      | rVB3  | 349         | 444        | 0.15%        | 0.019%     |
| 30     | 5.000    | 1213       | 1216     | 1221      | rBV2  | 240         | 239        | 0.08%        | 0.010%     |
| 31     | 5.090    | 1225       | 1244     | 1263      | rBV3  | 105453      | 261505     | 86.10%       | 11.363%    |
| 32     | 5.245    | 1290       | 1292     | 1297      | rVB   | 396         | 265        | 0.09%        | 0.012%     |
| 33     | 5.273    | 1297       | 1301     | 1307      | rBV3  | 416         | 508        | 0.17%        | 0.022%     |
| 34     | 5.376    | 1321       | 1333     | 1348      | rVB5  | 3424        | 7071       | 2.33%        | 0.307%     |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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Integrator: RTE  
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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\SOM2VLM052019S.M  
 Title : VOC Analysis

|    |       |      |      |      |      |        |        |         |         |
|----|-------|------|------|------|------|--------|--------|---------|---------|
| 35 | 5.537 | 1380 | 1383 | 1384 | rBV  | 491    | 216    | 0.07%   | 0.009%  |
| 36 | 5.659 | 1408 | 1421 | 1439 | rBV  | 97780  | 196261 | 64.62%  | 8.528%  |
| 37 | 5.823 | 1469 | 1472 | 1476 | rVB2 | 357    | 363    | 0.12%   | 0.016%  |
| 38 | 5.949 | 1506 | 1511 | 1513 | rBV3 | 699    | 681    | 0.22%   | 0.030%  |
| 39 | 6.116 | 1547 | 1563 | 1578 | rBV  | 63342  | 128836 | 42.42%  | 5.598%  |
| 40 | 6.331 | 1617 | 1630 | 1646 | rBV2 | 17046  | 34126  | 11.24%  | 1.483%  |
| 41 | 6.450 | 1666 | 1667 | 1674 | rVB  | 479    | 437    | 0.14%   | 0.019%  |
| 42 | 6.489 | 1674 | 1679 | 1682 | rBV2 | 344    | 375    | 0.12%   | 0.016%  |
| 43 | 6.653 | 1724 | 1730 | 1733 | rBV3 | 441    | 533    | 0.18%   | 0.023%  |
| 44 | 6.701 | 1740 | 1745 | 1750 | rBV2 | 676    | 779    | 0.26%   | 0.034%  |
| 45 | 6.849 | 1788 | 1791 | 1795 | rVB  | 356    | 290    | 0.10%   | 0.013%  |
| 46 | 6.875 | 1795 | 1799 | 1802 | rBV  | 331    | 368    | 0.12%   | 0.016%  |
| 47 | 7.026 | 1835 | 1846 | 1861 | rBV2 | 29198  | 50787  | 16.72%  | 2.207%  |
| 48 | 7.135 | 1878 | 1880 | 1883 | rBV  | 345    | 213    | 0.07%   | 0.009%  |
| 49 | 7.170 | 1888 | 1891 | 1893 | rBV  | 410    | 273    | 0.09%   | 0.012%  |
| 50 | 7.222 | 1899 | 1907 | 1913 | rBV2 | 324    | 512    | 0.17%   | 0.022%  |
| 51 | 7.357 | 1934 | 1949 | 1967 | rBV  | 97456  | 172450 | 56.78%  | 7.493%  |
| 52 | 7.498 | 1990 | 1993 | 1996 | rVB3 | 300    | 220    | 0.07%   | 0.010%  |
| 53 | 7.662 | 2034 | 2044 | 2059 | rVB2 | 19571  | 31322  | 10.31%  | 1.361%  |
| 54 | 7.733 | 2060 | 2066 | 2068 | rBV3 | 755    | 603    | 0.20%   | 0.026%  |
| 55 | 7.852 | 2100 | 2103 | 2109 | rVB3 | 358    | 419    | 0.14%   | 0.018%  |
| 56 | 7.884 | 2109 | 2113 | 2115 | rBV2 | 296    | 249    | 0.08%   | 0.011%  |
| 57 | 7.926 | 2119 | 2126 | 2132 | rVV3 | 295    | 429    | 0.14%   | 0.019%  |
| 58 | 7.978 | 2134 | 2142 | 2155 | rVB3 | 2398   | 4600   | 1.51%   | 0.200%  |
| 59 | 8.132 | 2178 | 2190 | 2209 | rBV  | 61949  | 108320 | 35.66%  | 4.707%  |
| 60 | 8.280 | 2225 | 2236 | 2258 | rBV  | 187078 | 303724 | 100.00% | 13.197% |
| 61 | 8.778 | 2385 | 2391 | 2393 | rBV  | 168    | 224    | 0.07%   | 0.010%  |
| 62 | 8.894 | 2413 | 2427 | 2450 | rBV  | 133523 | 218279 | 71.87%  | 9.484%  |
| 63 | 8.994 | 2455 | 2458 | 2464 | rVV3 | 725    | 714    | 0.24%   | 0.031%  |
| 64 | 9.029 | 2467 | 2469 | 2476 | rVB2 | 368    | 307    | 0.10%   | 0.013%  |
| 65 | 9.071 | 2476 | 2482 | 2485 | rVB2 | 182    | 220    | 0.07%   | 0.010%  |
| 66 | 9.100 | 2485 | 2491 | 2493 | rBV  | 167    | 228    | 0.08%   | 0.010%  |
| 67 | 9.257 | 2528 | 2540 | 2541 | rBV4 | 2591   | 3590   | 1.18%   | 0.156%  |
| 68 | 9.543 | 2626 | 2629 | 2633 | rVB4 | 528    | 421    | 0.14%   | 0.018%  |
| 69 | 9.585 | 2638 | 2642 | 2644 | rVV  | 289    | 214    | 0.07%   | 0.009%  |
| 70 | 9.598 | 2644 | 2646 | 2650 | rVB3 | 297    | 229    | 0.08%   | 0.010%  |
| 71 | 9.711 | 2680 | 2681 | 2687 | rVB2 | 452    | 276    | 0.09%   | 0.012%  |

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 MSVOA\_V  
 ClientSampleId :  
 A51D6

## Integration Parameters: LSCINT.P

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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 >  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052019S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |       |        |        |        |
|-----|--------|------|------|------|------|-------|--------|--------|--------|
| 72  | 9.746  | 2687 | 2692 | 2694 | rBV2 | 380   | 312    | 0.10%  | 0.014% |
| 73  | 9.849  | 2717 | 2724 | 2732 | rBV5 | 6938  | 9652   | 3.18%  | 0.419% |
| 74  | 9.974  | 2757 | 2763 | 2765 | rBV2 | 236   | 260    | 0.09%  | 0.011% |
| 75  | 9.994  | 2765 | 2769 | 2771 | rBV2 | 577   | 523    | 0.17%  | 0.023% |
| 76  | 10.260 | 2841 | 2852 | 2869 | rBV2 | 68374 | 108279 | 35.65% | 4.705% |
| 77  | 10.424 | 2895 | 2903 | 2914 | rVV3 | 3901  | 5919   | 1.95%  | 0.257% |
| 78  | 10.492 | 2919 | 2924 | 2925 | rBV  | 223   | 218    | 0.07%  | 0.009% |
| 79  | 10.547 | 2937 | 2941 | 2943 | rBV3 | 708   | 483    | 0.16%  | 0.021% |
| 80  | 10.630 | 2961 | 2967 | 2972 | rVB5 | 755   | 890    | 0.29%  | 0.039% |
| 81  | 10.756 | 3002 | 3006 | 3015 | rVB3 | 745   | 1149   | 0.38%  | 0.050% |
| 82  | 10.810 | 3015 | 3023 | 3025 | rBV  | 653   | 613    | 0.20%  | 0.027% |
| 83  | 10.961 | 3066 | 3070 | 3072 | rBV2 | 673   | 468    | 0.15%  | 0.020% |
| 84  | 10.977 | 3073 | 3075 | 3085 | rVB  | 1079  | 1186   | 0.39%  | 0.052% |
| 85  | 11.199 | 3137 | 3144 | 3152 | rVB4 | 3355  | 4722   | 1.55%  | 0.205% |
| 86  | 11.296 | 3163 | 3174 | 3190 | rVB  | 72509 | 115300 | 37.96% | 5.010% |
| 87  | 11.579 | 3254 | 3262 | 3271 | rBV3 | 2045  | 3032   | 1.00%  | 0.132% |
| 88  | 11.672 | 3280 | 3291 | 3305 | rBV2 | 55057 | 88124  | 29.01% | 3.829% |
| 89  | 11.730 | 3307 | 3309 | 3314 | rVB2 | 577   | 469    | 0.15%  | 0.020% |
| 90  | 12.055 | 3402 | 3410 | 3418 | rBV4 | 2082  | 2706   | 0.89%  | 0.118% |
| 91  | 12.289 | 3477 | 3483 | 3493 | rVB2 | 1309  | 2148   | 0.71%  | 0.093% |
| 92  | 12.395 | 3509 | 3516 | 3524 | rVB5 | 2080  | 2567   | 0.85%  | 0.112% |
| 93  | 12.714 | 3609 | 3615 | 3621 | rVB4 | 1077  | 1357   | 0.45%  | 0.059% |
| 94  | 12.752 | 3621 | 3627 | 3634 | rBV2 | 323   | 555    | 0.18%  | 0.024% |
| 95  | 12.923 | 3675 | 3680 | 3683 | rBV3 | 415   | 413    | 0.14%  | 0.018% |
| 96  | 13.630 | 3896 | 3900 | 3901 | rBV  | 278   | 226    | 0.07%  | 0.010% |
| 97  | 14.080 | 4038 | 4040 | 4044 | rBV2 | 390   | 242    | 0.08%  | 0.011% |
| 98  | 15.196 | 4382 | 4387 | 4391 | rBV2 | 406   | 461    | 0.15%  | 0.020% |
| 99  | 15.681 | 4529 | 4538 | 4550 | rBV4 | 1632  | 2851   | 0.94%  | 0.124% |
| 100 | 16.434 | 4769 | 4772 | 4778 | rVB5 | 490   | 342    | 0.11%  | 0.015% |

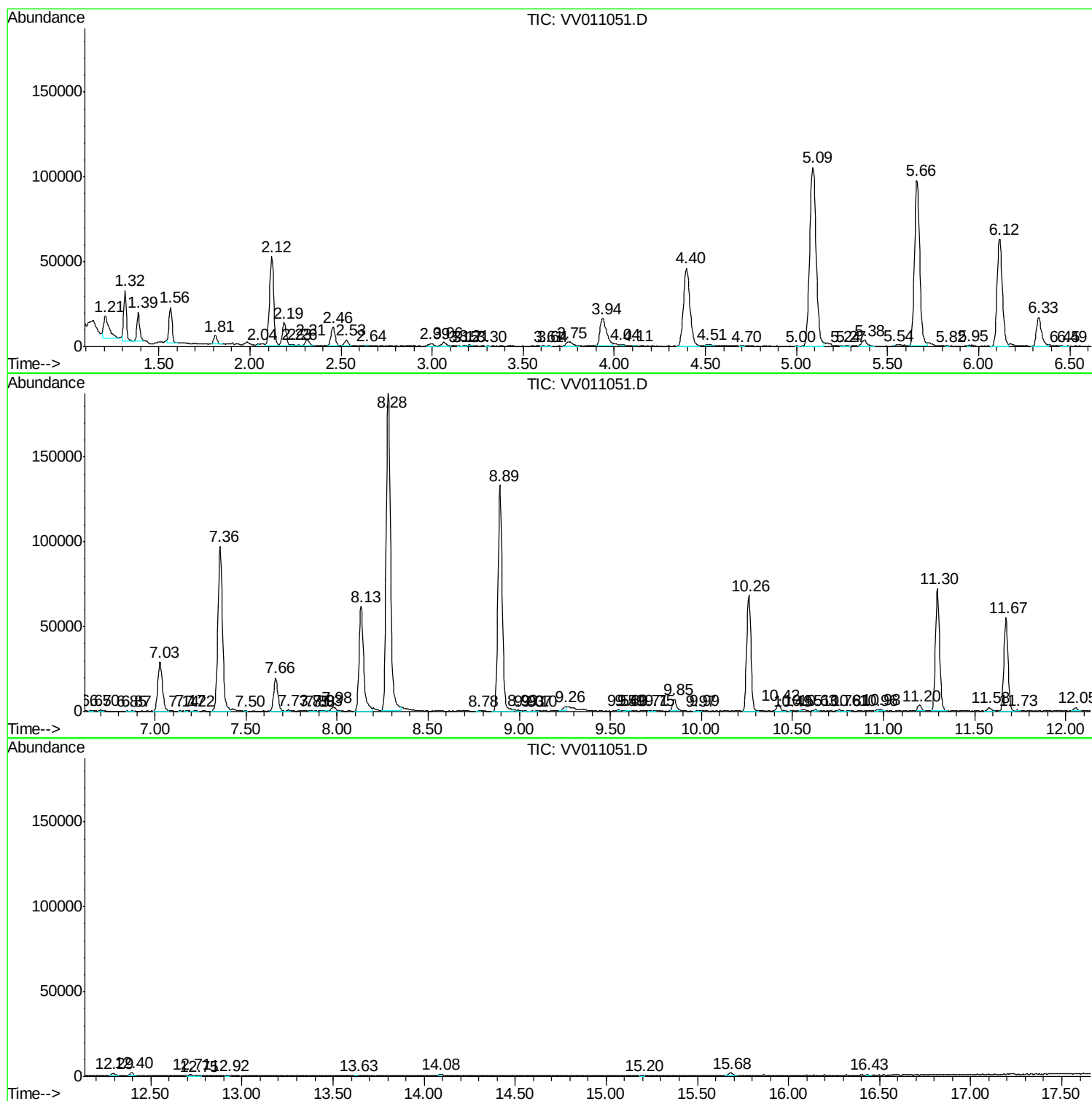
Sum of corrected areas: 2301438

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052019S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSV0A\_V\DATA\VV052319\  
Data File : VV011051.D  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_V\METHOD\SOM2VLM052019S.M  
Quant Title : VOC Analysis

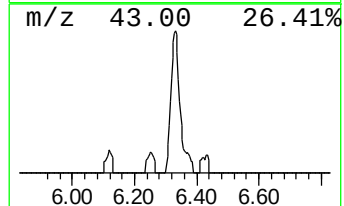
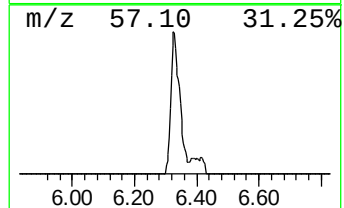
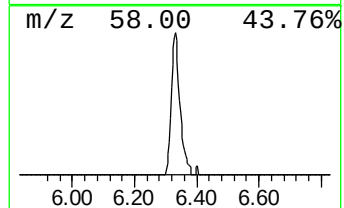
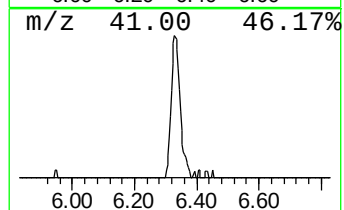
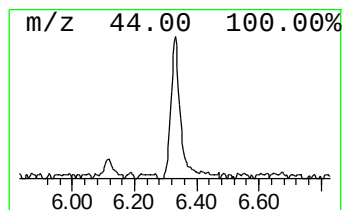
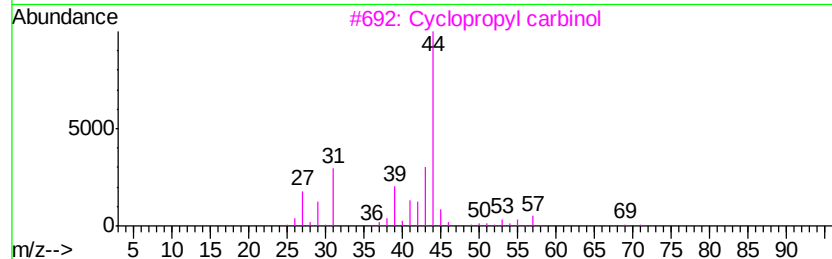
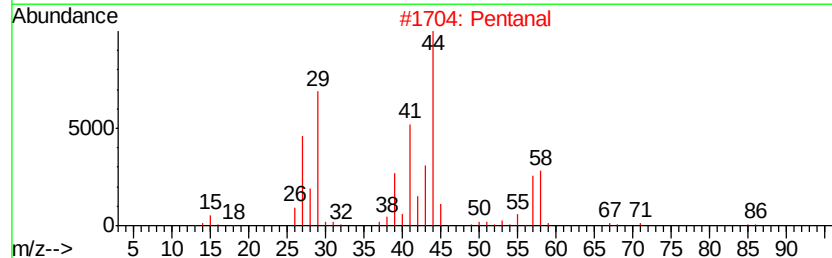
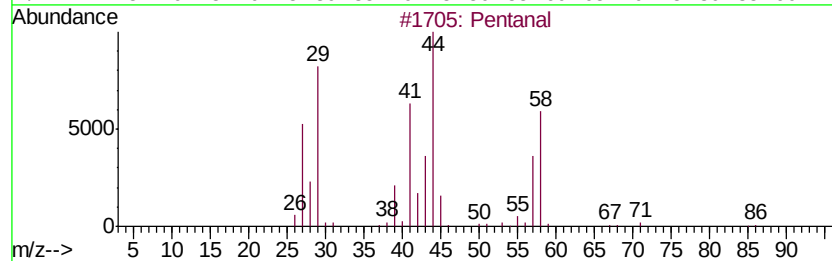
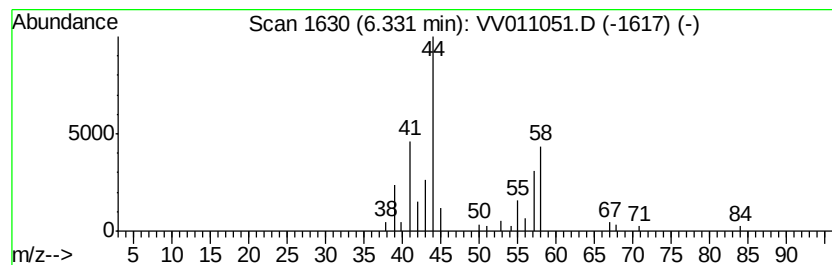
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Pentanal Concentration Rank 3

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 6.33 | 4.35 ug/L | 34126 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentanal                    | 86  | C5H10O  | 000110-62-3 | 78   |
| 2    |    | Pentanal                    | 86  | C5H10O  | 000110-62-3 | 78   |
| 3    |    | Cyclopropyl carbinol        | 72  | C4H8O   | 002516-33-8 | 38   |
| 4    |    | 1-Octadecanamine, N-methyl- | 283 | C19H41N | 002439-55-6 | 9    |
| 5    |    | Ethylene oxide              | 44  | C2H4O   | 000075-21-8 | 5    |



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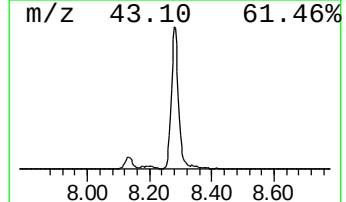
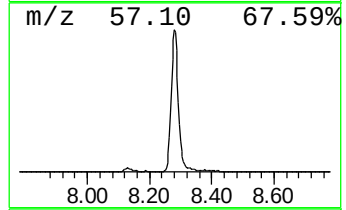
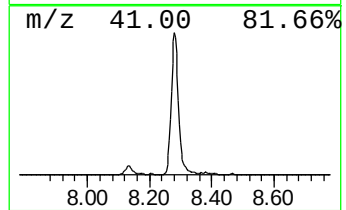
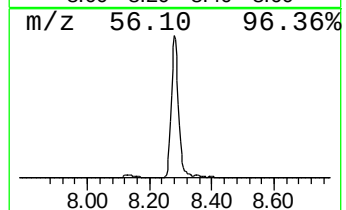
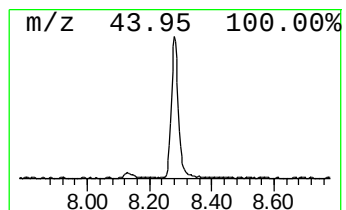
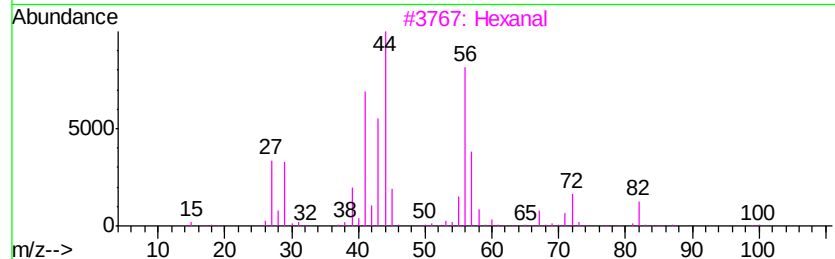
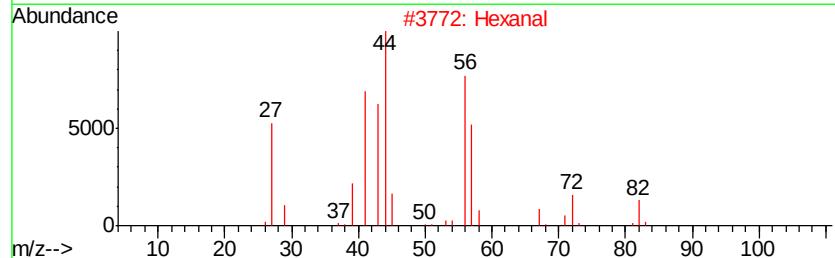
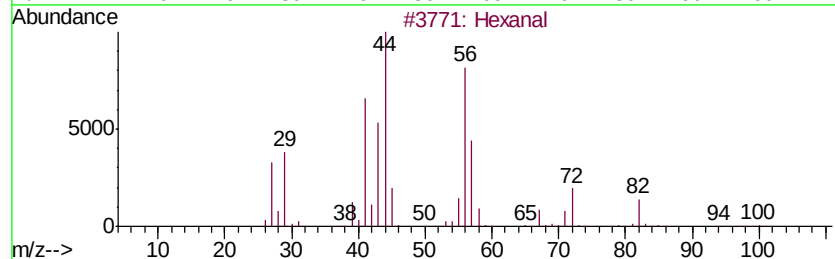
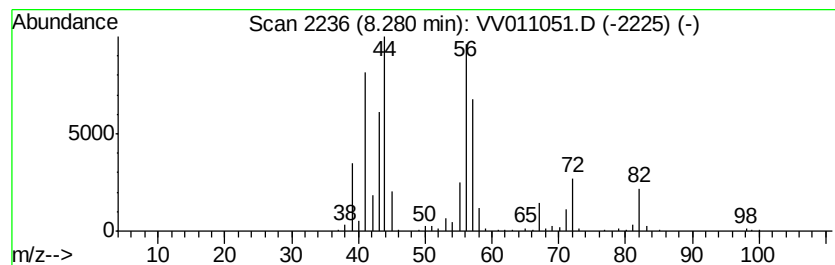
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_V\METHOD\SOM2VLM052019S.M  
Quant Title : VOC Analysis

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 | 34.79 ug/L | 303724 | Chlorobenzene-d5 | 8.89 |

| Hit# | of | Tentative ID   | MW  | MolForm | CAS#        | Qual |
|------|----|----------------|-----|---------|-------------|------|
| 1    | 5  | Hexanal        | 100 | C6H12O  | 000066-25-1 | 86   |
| 2    |    | Hexanal        | 100 | C6H12O  | 000066-25-1 | 86   |
| 3    |    | Hexanal        | 100 | C6H12O  | 000066-25-1 | 86   |
| 4    |    | Hexanal        | 100 | C6H12O  | 000066-25-1 | 83   |
| 5    |    | Glutaraldehyde | 100 | C5H8O2  | 000111-30-8 | 32   |



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Operator : SY/MD  
Sample : K3016-19  
Misc : 4.85G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A51D6

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052019S.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 |
| Pentanal         | 6.33 | 4.3     | ug/L  | 34126    | 1                     | 5.66 | 196261 | 25.0 |
| Hexanal          | 8.28 | 34.8    | ug/L  | 303724   | 2                     | 8.89 | 218279 | 25.0 |