

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031319\  
 Data File : VV009656.D  
 Acq On : 14 Mar 2019 00:28  
 Operator : SY/MD  
 Sample : K1794-19  
 Misc : 3.14G/10ML/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF5P6

## 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\SOM2VLM031319S.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      | 2.126    | 314        | 322      | 334       | rVB   | 25483       | 36458      | 16.44%       | 2.740%     |
| 2      | 2.229    | 347        | 354      | 370       | rVB   | 19937       | 29849      | 13.46%       | 2.243%     |
| 3      | 2.399    | 404        | 407      | 410       | rBV2  | 380         | 299        | 0.13%        | 0.022%     |
| 4      | 2.531    | 438        | 448      | 463       | rVB5  | 14838       | 26986      | 12.17%       | 2.028%     |
| 5      | 2.589    | 463        | 466      | 469       | rBV2  | 248         | 203        | 0.09%        | 0.015%     |
| 6      | 2.653    | 476        | 486      | 499       | rVB   | 13905       | 27371      | 12.34%       | 2.057%     |
| 7      | 2.987    | 584        | 590      | 594       | rBV2  | 301         | 358        | 0.16%        | 0.027%     |
| 8      | 3.074    | 609        | 617      | 618       | rBV3  | 844         | 1070       | 0.48%        | 0.080%     |
| 9      | 3.225    | 657        | 664      | 667       | rBV2  | 281         | 341        | 0.15%        | 0.026%     |
| 10     | 3.254    | 670        | 673      | 679       | rBV2  | 252         | 294        | 0.13%        | 0.022%     |
| 11     | 3.393    | 713        | 716      | 721       | rBV   | 294         | 295        | 0.13%        | 0.022%     |
| 12     | 3.585    | 771        | 776      | 778       | rBV   | 259         | 284        | 0.13%        | 0.021%     |
| 13     | 3.672    | 800        | 803      | 805       | rBV2  | 198         | 124        | 0.06%        | 0.009%     |
| 14     | 3.807    | 841        | 845      | 847       | rBV2  | 252         | 204        | 0.09%        | 0.015%     |
| 15     | 3.962    | 877        | 893      | 907       | rBV4  | 6534        | 21046      | 9.49%        | 1.581%     |
| 16     | 4.402    | 1015       | 1030     | 1052      | rBV4  | 26791       | 73601      | 33.19%       | 5.531%     |
| 17     | 4.515    | 1062       | 1065     | 1072      | rBV2  | 461         | 493        | 0.22%        | 0.037%     |
| 18     | 4.540    | 1072       | 1073     | 1074      | rBV   | 595         | 143        | 0.06%        | 0.011%     |
| 19     | 4.685    | 1115       | 1118     | 1120      | rBV3  | 363         | 256        | 0.12%        | 0.019%     |
| 20     | 4.756    | 1137       | 1140     | 1145      | rVB   | 334         | 296        | 0.13%        | 0.022%     |
| 21     | 4.785    | 1145       | 1149     | 1152      | rBV   | 237         | 249        | 0.11%        | 0.019%     |
| 22     | 4.936    | 1193       | 1196     | 1199      | rBV2  | 314         | 275        | 0.12%        | 0.021%     |
| 23     | 4.981    | 1206       | 1210     | 1212      | rBV2  | 157         | 126        | 0.06%        | 0.009%     |
| 24     | 4.994    | 1212       | 1214     | 1218      | rVB   | 280         | 185        | 0.08%        | 0.014%     |
| 25     | 5.090    | 1225       | 1244     | 1270      | rBV4  | 83401       | 221726     | 100.00%      | 16.662%    |
| 26     | 5.319    | 1312       | 1315     | 1318      | rBV3  | 329         | 222        | 0.10%        | 0.017%     |
| 27     | 5.338    | 1319       | 1321     | 1324      | rVV   | 222         | 122        | 0.06%        | 0.009%     |
| 28     | 5.370    | 1328       | 1331     | 1333      | rBV2  | 239         | 109        | 0.05%        | 0.008%     |
| 29     | 5.389    | 1335       | 1337     | 1338      | rBV2  | 308         | 155        | 0.07%        | 0.012%     |
| 30     | 5.441    | 1350       | 1353     | 1355      | rBV   | 210         | 163        | 0.07%        | 0.012%     |
| 31     | 5.524    | 1377       | 1379     | 1385      | rVB   | 300         | 165        | 0.07%        | 0.012%     |
| 32     | 5.663    | 1409       | 1422     | 1444      | rBV2  | 60021       | 119135     | 53.73%       | 8.952%     |
| 33     | 5.923    | 1500       | 1503     | 1505      | rBV2  | 250         | 166        | 0.07%        | 0.012%     |
| 34     | 5.942    | 1505       | 1509     | 1518      | rVB4  | 1190        | 1677       | 0.76%        | 0.126%     |

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 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\SOM2VLM031319S.M  
 Title : VOC Analysis

|    |       |      |      |      |      |       |        |        |         |
|----|-------|------|------|------|------|-------|--------|--------|---------|
| 35 | 6.023 | 1530 | 1534 | 1540 | rVB3 | 488   | 481    | 0.22%  | 0.036%  |
| 36 | 6.119 | 1551 | 1564 | 1582 | rBV2 | 60914 | 125053 | 56.40% | 9.397%  |
| 37 | 6.341 | 1631 | 1633 | 1636 | rBV2 | 256   | 113    | 0.05%  | 0.008%  |
| 38 | 6.444 | 1659 | 1665 | 1667 | rBV2 | 195   | 234    | 0.11%  | 0.018%  |
| 39 | 6.688 | 1738 | 1741 | 1746 | rBV3 | 592   | 707    | 0.32%  | 0.053%  |
| 40 | 6.788 | 1770 | 1772 | 1775 | rVB2 | 210   | 110    | 0.05%  | 0.008%  |
| 41 | 7.029 | 1838 | 1847 | 1859 | rBV4 | 5298  | 9544   | 4.30%  | 0.717%  |
| 42 | 7.193 | 1895 | 1898 | 1899 | rBV  | 199   | 112    | 0.05%  | 0.008%  |
| 43 | 7.283 | 1918 | 1926 | 1928 | rBV3 | 962   | 1101   | 0.50%  | 0.083%  |
| 44 | 7.360 | 1938 | 1950 | 1967 | rVV2 | 65896 | 118994 | 53.67% | 8.942%  |
| 45 | 7.515 | 1991 | 1998 | 2001 | rVB3 | 312   | 340    | 0.15%  | 0.026%  |
| 46 | 7.534 | 2001 | 2004 | 2006 | rBV  | 152   | 108    | 0.05%  | 0.008%  |
| 47 | 7.608 | 2024 | 2027 | 2029 | rBV  | 400   | 269    | 0.12%  | 0.020%  |
| 48 | 7.666 | 2037 | 2045 | 2054 | rBV3 | 3948  | 5588   | 2.52%  | 0.420%  |
| 49 | 7.769 | 2075 | 2077 | 2079 | rBV2 | 184   | 96     | 0.04%  | 0.007%  |
| 50 | 7.791 | 2079 | 2084 | 2089 | rBV2 | 375   | 404    | 0.18%  | 0.030%  |
| 51 | 7.823 | 2090 | 2094 | 2096 | rBV3 | 233   | 216    | 0.10%  | 0.016%  |
| 52 | 7.852 | 2096 | 2103 | 2113 | rVV5 | 5045  | 7688   | 3.47%  | 0.578%  |
| 53 | 7.955 | 2132 | 2135 | 2136 | rBV  | 529   | 280    | 0.13%  | 0.021%  |
| 54 | 8.042 | 2160 | 2162 | 2167 | rVB2 | 197   | 145    | 0.07%  | 0.011%  |
| 55 | 8.138 | 2184 | 2192 | 2195 | rBV4 | 3642  | 4717   | 2.13%  | 0.354%  |
| 56 | 8.270 | 2231 | 2233 | 2236 | rBV3 | 275   | 133    | 0.06%  | 0.010%  |
| 57 | 8.460 | 2289 | 2292 | 2294 | rBV3 | 201   | 162    | 0.07%  | 0.012%  |
| 58 | 8.547 | 2315 | 2319 | 2322 | rBV  | 323   | 296    | 0.13%  | 0.022%  |
| 59 | 8.630 | 2342 | 2345 | 2346 | rBV  | 263   | 141    | 0.06%  | 0.011%  |
| 60 | 8.781 | 2388 | 2392 | 2393 | rBV2 | 167   | 117    | 0.05%  | 0.009%  |
| 61 | 8.897 | 2417 | 2428 | 2446 | rBV  | 96410 | 164237 | 74.07% | 12.342% |
| 62 | 9.064 | 2478 | 2480 | 2486 | rVB  | 238   | 120    | 0.05%  | 0.009%  |
| 63 | 9.132 | 2497 | 2501 | 2503 | rBV2 | 205   | 159    | 0.07%  | 0.012%  |
| 64 | 9.244 | 2528 | 2536 | 2543 | rBV2 | 419   | 659    | 0.30%  | 0.050%  |
| 65 | 9.347 | 2562 | 2568 | 2571 | rBV2 | 234   | 287    | 0.13%  | 0.022%  |
| 66 | 9.412 | 2582 | 2588 | 2590 | rBV  | 247   | 288    | 0.13%  | 0.022%  |
| 67 | 9.669 | 2664 | 2668 | 2671 | rBV2 | 250   | 254    | 0.11%  | 0.019%  |
| 68 | 9.727 | 2682 | 2686 | 2689 | rBV2 | 309   | 294    | 0.13%  | 0.022%  |
| 69 | 9.775 | 2695 | 2701 | 2708 | rBV2 | 274   | 383    | 0.17%  | 0.029%  |
| 70 | 9.813 | 2708 | 2713 | 2717 | rVB  | 311   | 344    | 0.16%  | 0.026%  |
| 71 | 9.846 | 2719 | 2723 | 2727 | rBV2 | 613   | 671    | 0.30%  | 0.050%  |

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## 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\SOM2VLM031319S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |       |        |        |        |
|-----|--------|------|------|------|------|-------|--------|--------|--------|
| 72  | 10.058 | 2786 | 2789 | 2793 | rBV  | 267   | 169    | 0.08%  | 0.013% |
| 73  | 10.145 | 2813 | 2816 | 2819 | rBV2 | 151   | 94     | 0.04%  | 0.007% |
| 74  | 10.196 | 2829 | 2832 | 2835 | rBV  | 281   | 212    | 0.10%  | 0.016% |
| 75  | 10.264 | 2841 | 2853 | 2868 | rVB  | 60386 | 96678  | 43.60% | 7.265% |
| 76  | 10.424 | 2895 | 2903 | 2917 | rVB4 | 4327  | 6655   | 3.00%  | 0.500% |
| 77  | 10.566 | 2944 | 2947 | 2950 | rBV  | 251   | 195    | 0.09%  | 0.015% |
| 78  | 10.685 | 2980 | 2984 | 2987 | rBV  | 219   | 191    | 0.09%  | 0.014% |
| 79  | 10.768 | 3007 | 3010 | 3012 | rBV  | 162   | 100    | 0.05%  | 0.008% |
| 80  | 11.151 | 3125 | 3129 | 3133 | rBV2 | 254   | 214    | 0.10%  | 0.016% |
| 81  | 11.177 | 3133 | 3137 | 3143 | rVV2 | 321   | 351    | 0.16%  | 0.026% |
| 82  | 11.299 | 3164 | 3175 | 3196 | rVB  | 55846 | 100172 | 45.18% | 7.527% |
| 83  | 11.498 | 3232 | 3237 | 3240 | rBV  | 304   | 364    | 0.16%  | 0.027% |
| 84  | 11.540 | 3248 | 3250 | 3251 | rBV  | 257   | 110    | 0.05%  | 0.008% |
| 85  | 11.627 | 3274 | 3277 | 3279 | rBV  | 304   | 171    | 0.08%  | 0.013% |
| 86  | 11.675 | 3279 | 3292 | 3313 | rVV  | 62496 | 108235 | 48.81% | 8.133% |
| 87  | 11.820 | 3334 | 3337 | 3339 | rBV  | 157   | 111    | 0.05%  | 0.008% |
| 88  | 11.965 | 3378 | 3382 | 3391 | rBV2 | 239   | 271    | 0.12%  | 0.020% |
| 89  | 12.029 | 3400 | 3402 | 3404 | rBV  | 255   | 100    | 0.05%  | 0.008% |
| 90  | 12.103 | 3422 | 3425 | 3427 | rBV2 | 265   | 191    | 0.09%  | 0.014% |
| 91  | 12.302 | 3477 | 3487 | 3497 | rBV3 | 1390  | 2628   | 1.19%  | 0.197% |
| 92  | 12.964 | 3691 | 3693 | 3695 | rVB  | 250   | 110    | 0.05%  | 0.008% |
| 93  | 12.984 | 3695 | 3699 | 3705 | rVB2 | 374   | 338    | 0.15%  | 0.025% |
| 94  | 13.022 | 3705 | 3711 | 3714 | rBV  | 424   | 426    | 0.19%  | 0.032% |
| 95  | 13.116 | 3733 | 3740 | 3743 | rBV2 | 386   | 518    | 0.23%  | 0.039% |
| 96  | 13.550 | 3872 | 3875 | 3876 | rBV2 | 203   | 103    | 0.05%  | 0.008% |
| 97  | 13.691 | 3916 | 3919 | 3921 | rBV  | 301   | 199    | 0.09%  | 0.015% |
| 98  | 13.797 | 3947 | 3952 | 3958 | rVB4 | 1329  | 1679   | 0.76%  | 0.126% |
| 99  | 14.611 | 4202 | 4205 | 4208 | rBV2 | 380   | 252    | 0.11%  | 0.019% |
| 100 | 16.466 | 4779 | 4782 | 4786 | rBV5 | 828   | 638    | 0.29%  | 0.048% |

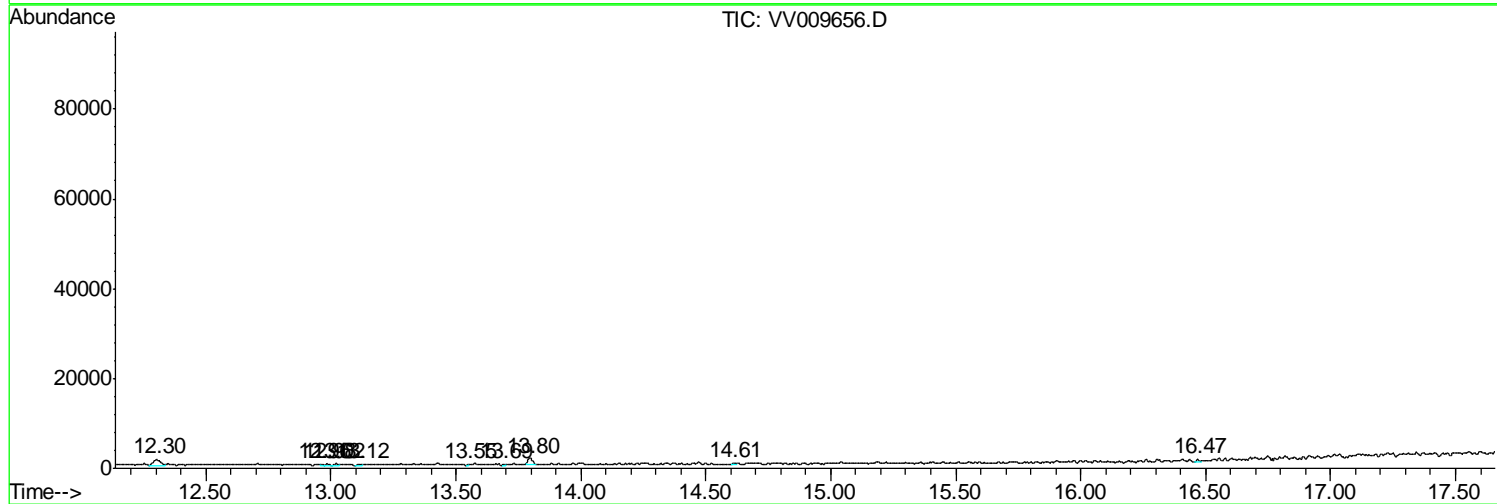
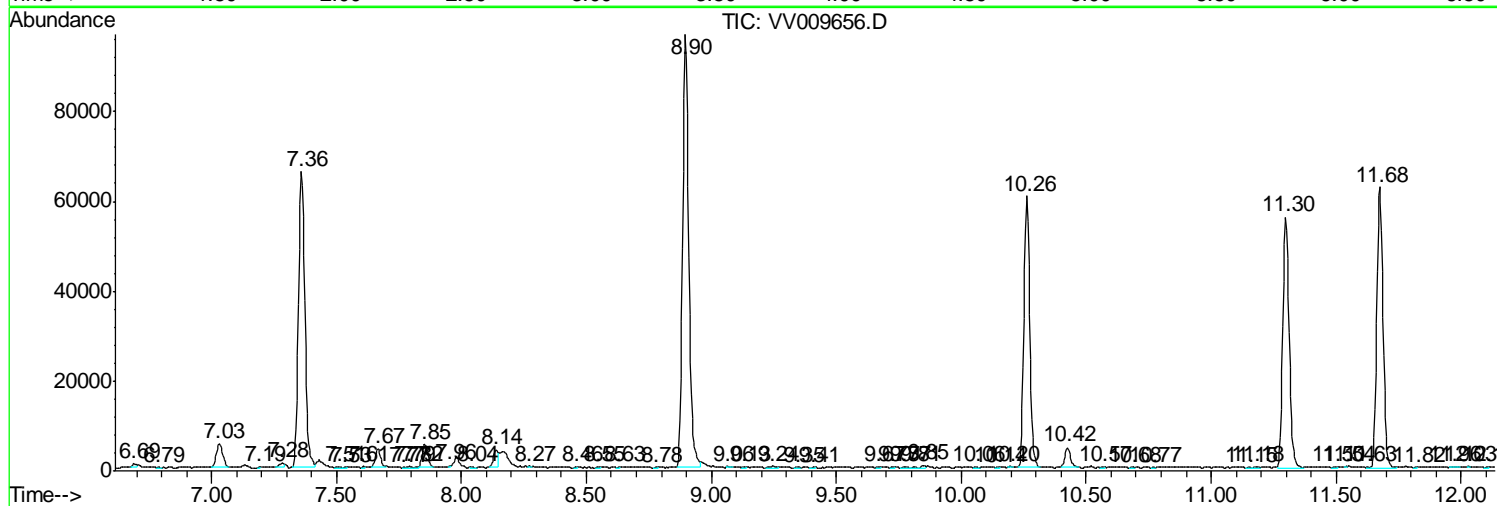
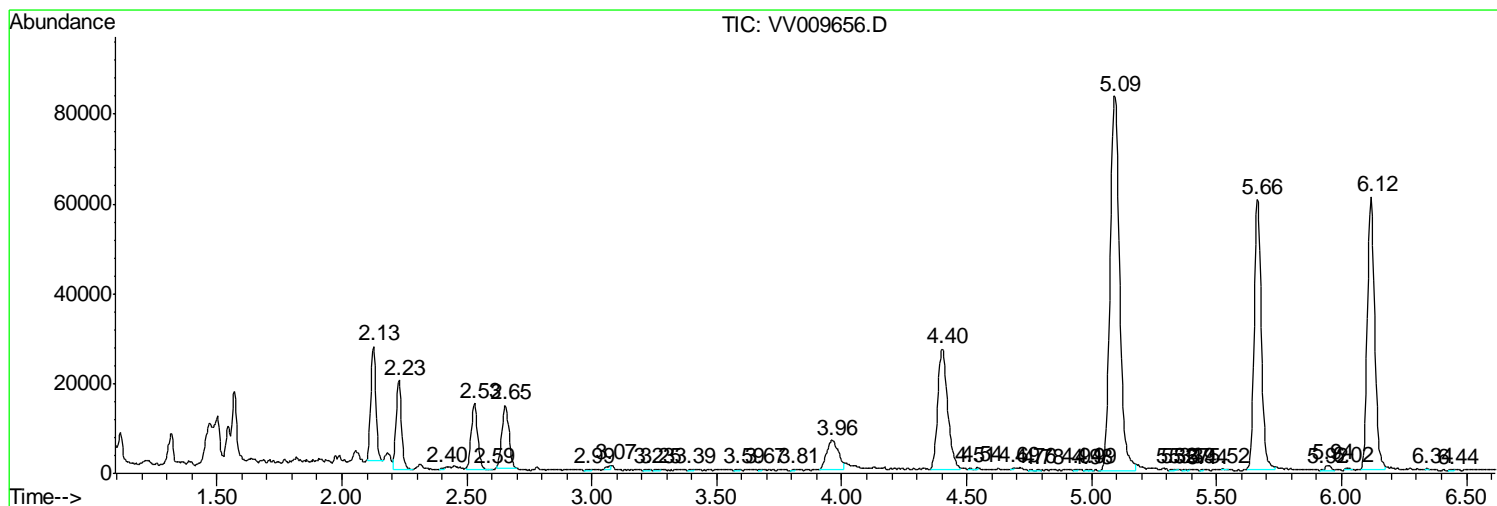
Sum of corrected areas: 1330766

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM031319S.M  
 Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031319\  
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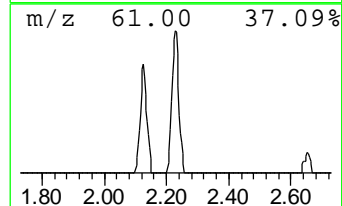
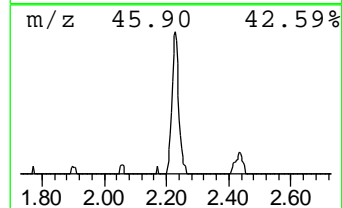
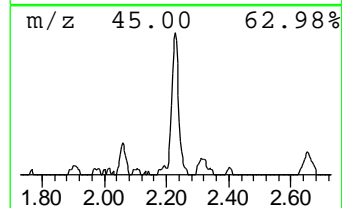
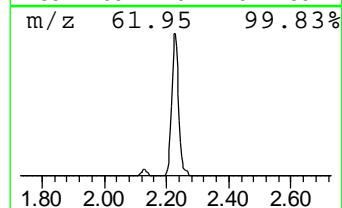
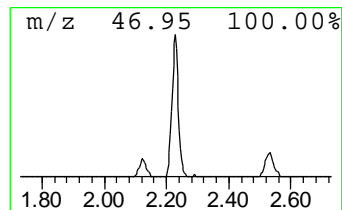
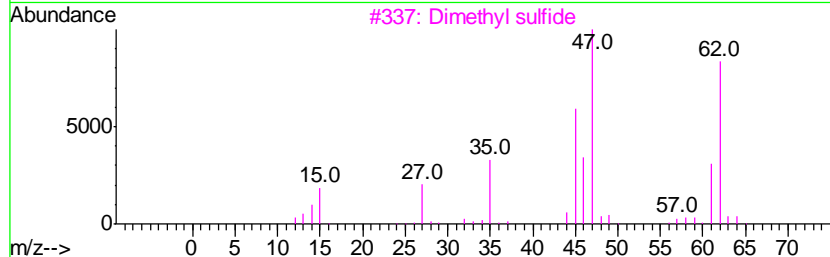
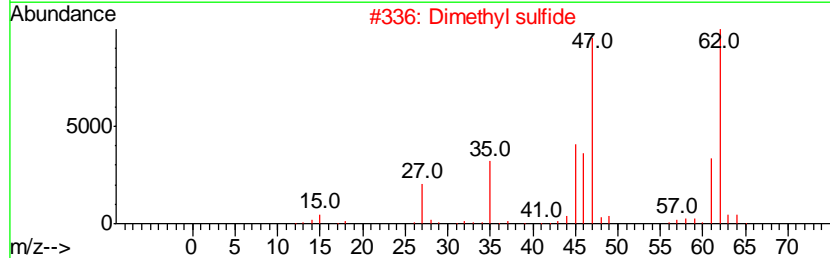
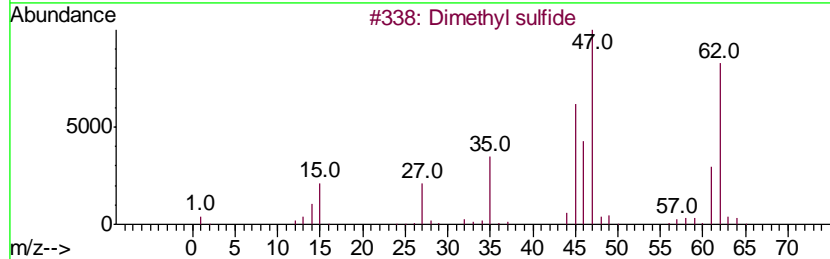
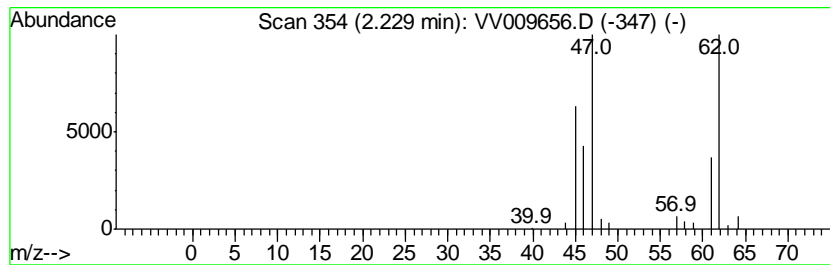
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM031319S.M  
 Quant Title : VOC Analysis

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

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 Peak Number 4 Dimethyl sulfide Concentration Rank 4

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.23 | 6.26 ug/L | 29849 | 1,4-Difluorobenzene | 5.67 |

| Hit# | of | Tentative ID                  | MW | MolForm | CAS#        | Qual |
|------|----|-------------------------------|----|---------|-------------|------|
| 1    | 5  | Dimethyl sulfide              | 62 | C2H6S   | 000075-18-3 | 83   |
| 2    |    | Dimethyl sulfide              | 62 | C2H6S   | 000075-18-3 | 78   |
| 3    |    | Dimethyl sulfide              | 62 | C2H6S   | 000075-18-3 | 72   |
| 4    |    | Borane-methyl sulfide complex | 76 | C2H9BS  | 013292-87-0 | 64   |
| 5    |    | Ethaneethiol                  | 62 | C2H6S   | 000075-08-1 | 50   |



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| TIC Top Hit name | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                  |      |         |       |          | #                     | RT   | Resp   | Conc |
| Dimethyl sulfide | 2.23 | 6.3     | ug/L  | 29849    | 1                     | 5.67 | 119135 | 25.0 |