

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV030519\  
 Data File : VV009502.D  
 Acq On : 05 Mar 2019 22:45  
 Operator : SY/MD  
 Sample : K1720-03  
 Misc : 5.37G/10ML/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF8A9

## 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\SOM2VLM030519S.M  
 Title : VOC Analysis

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.316       | 65            | 70          | 79           | rVB      | 51946          | 52858         | 5.28%           | 1.327%        |
| 2         | 1.576       | 146           | 151         | 168          | rVB      | 92521          | 109182        | 10.90%          | 2.740%        |
| 3         | 2.126       | 313           | 322         | 340          | rVB      | 123618         | 181186        | 18.09%          | 4.547%        |
| 4         | 2.229       | 343           | 354         | 376          | rVV      | 666879         | 1001416       | 100.00%         | 25.132%       |
| 5         | 2.534       | 440           | 449         | 463          | rVB3     | 10715          | 18052         | 1.80%           | 0.453%        |
| 6         | 2.647       | 477           | 484         | 485          | rBV2     | 1135           | 1199          | 0.12%           | 0.030%        |
| 7         | 2.701       | 499           | 501         | 502          | rBV2     | 271            | 124           | 0.01%           | 0.003%        |
| 8         | 2.795       | 528           | 530         | 536          | rBV      | 375            | 354           | 0.04%           | 0.009%        |
| 9         | 2.862       | 542           | 551         | 554          | rBV2     | 222            | 383           | 0.04%           | 0.010%        |
| 10        | 2.952       | 577           | 579         | 583          | rVB2     | 404            | 213           | 0.02%           | 0.005%        |
| 11        | 3.071       | 606           | 616         | 628          | rVB4     | 4578           | 9199          | 0.92%           | 0.231%        |
| 12        | 3.213       | 655           | 660         | 663          | rBV2     | 243            | 204           | 0.02%           | 0.005%        |
| 13        | 3.309       | 687           | 690         | 694          | rVB3     | 532            | 311           | 0.03%           | 0.008%        |
| 14        | 3.512       | 750           | 753         | 756          | rBV      | 206            | 122           | 0.01%           | 0.003%        |
| 15        | 3.531       | 756           | 759         | 761          | rBV      | 356            | 226           | 0.02%           | 0.006%        |
| 16        | 3.569       | 768           | 771         | 775          | rBV2     | 187            | 135           | 0.01%           | 0.003%        |
| 17        | 3.592       | 775           | 778         | 781          | rBV      | 232            | 162           | 0.02%           | 0.004%        |
| 18        | 3.653       | 793           | 797         | 800          | rBV2     | 289            | 265           | 0.03%           | 0.007%        |
| 19        | 3.672       | 800           | 803         | 808          | rVV2     | 369            | 285           | 0.03%           | 0.007%        |
| 20        | 3.711       | 811           | 815         | 817          | rVV2     | 265            | 132           | 0.01%           | 0.003%        |
| 21        | 3.753       | 826           | 828         | 830          | rBV      | 225            | 129           | 0.01%           | 0.003%        |
| 22        | 3.952       | 877           | 890         | 909          | rBV2     | 15013          | 48416         | 4.83%           | 1.215%        |
| 23        | 4.225       | 973           | 975         | 980          | rVB2     | 347            | 197           | 0.02%           | 0.005%        |
| 24        | 4.248       | 980           | 982         | 985          | rVB      | 359            | 162           | 0.02%           | 0.004%        |
| 25        | 4.274       | 985           | 990         | 993          | rBV2     | 240            | 274           | 0.03%           | 0.007%        |
| 26        | 4.322       | 995           | 1005        | 1008         | rBV2     | 237            | 394           | 0.04%           | 0.010%        |
| 27        | 4.399       | 1012          | 1029        | 1051         | rBV      | 69218          | 172417        | 17.22%          | 4.327%        |
| 28        | 4.717       | 1123          | 1128        | 1133         | rBV      | 298            | 284           | 0.03%           | 0.007%        |
| 29        | 4.743       | 1133          | 1136        | 1139         | rBV2     | 208            | 121           | 0.01%           | 0.003%        |
| 30        | 4.759       | 1139          | 1141        | 1144         | rBV2     | 219            | 124           | 0.01%           | 0.003%        |
| 31        | 4.923       | 1188          | 1192        | 1193         | rBV2     | 174            | 128           | 0.01%           | 0.003%        |
| 32        | 5.094       | 1227          | 1245        | 1271         | rBV3     | 162985         | 411083        | 41.05%          | 10.317%       |
| 33        | 5.357       | 1324          | 1327        | 1330         | rBV2     | 255            | 226           | 0.02%           | 0.006%        |
| 34        | 5.412       | 1341          | 1344        | 1346         | rBV      | 184            | 129           | 0.01%           | 0.003%        |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV030519\  
 Data File : VV009502.D  
 Acq On : 05 Mar 2019 22:45  
 Operator : SY/MD  
 Sample : K1720-03  
 Misc : 5.37G/10ML/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF8A9

## 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\SOM2VLM030519S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 5.499  | 1367 | 1371 | 1373 | rBV2 | 233    | 196    | 0.02%  | 0.005% |
| 36 | 5.528  | 1377 | 1380 | 1384 | rBV  | 251    | 200    | 0.02%  | 0.005% |
| 37 | 5.663  | 1409 | 1422 | 1442 | rBV  | 125983 | 248950 | 24.86% | 6.248% |
| 38 | 5.839  | 1475 | 1477 | 1479 | rBV  | 213    | 118    | 0.01%  | 0.003% |
| 39 | 5.946  | 1503 | 1510 | 1524 | rVB5 | 1908   | 3487   | 0.35%  | 0.088% |
| 40 | 6.029  | 1533 | 1536 | 1540 | rBV2 | 188    | 191    | 0.02%  | 0.005% |
| 41 | 6.119  | 1550 | 1564 | 1584 | rBV2 | 91543  | 189324 | 18.91% | 4.751% |
| 42 | 6.566  | 1698 | 1703 | 1708 | rVB  | 389    | 413    | 0.04%  | 0.010% |
| 43 | 6.643  | 1722 | 1727 | 1728 | rBV2 | 279    | 152    | 0.02%  | 0.004% |
| 44 | 6.685  | 1737 | 1740 | 1743 | rVB  | 255    | 142    | 0.01%  | 0.004% |
| 45 | 6.704  | 1743 | 1746 | 1747 | rBV2 | 266    | 152    | 0.02%  | 0.004% |
| 46 | 6.804  | 1774 | 1777 | 1779 | rBV  | 229    | 140    | 0.01%  | 0.004% |
| 47 | 6.856  | 1791 | 1793 | 1796 | rBV2 | 211    | 120    | 0.01%  | 0.003% |
| 48 | 6.917  | 1809 | 1812 | 1815 | rBV  | 214    | 156    | 0.02%  | 0.004% |
| 49 | 7.029  | 1833 | 1847 | 1864 | rBV2 | 48477  | 88448  | 8.83%  | 2.220% |
| 50 | 7.135  | 1870 | 1880 | 1886 | rBV4 | 1346   | 2298   | 0.23%  | 0.058% |
| 51 | 7.222  | 1903 | 1907 | 1913 | rBV2 | 250    | 335    | 0.03%  | 0.008% |
| 52 | 7.309  | 1928 | 1934 | 1937 | rBV  | 240    | 304    | 0.03%  | 0.008% |
| 53 | 7.360  | 1937 | 1950 | 1969 | rBV  | 180884 | 321825 | 32.14% | 8.077% |
| 54 | 7.560  | 2009 | 2012 | 2017 | rVB2 | 441    | 329    | 0.03%  | 0.008% |
| 55 | 7.663  | 2033 | 2044 | 2062 | rBV  | 33257  | 55578  | 5.55%  | 1.395% |
| 56 | 8.138  | 2179 | 2192 | 2219 | rBV4 | 60789  | 126861 | 12.67% | 3.184% |
| 57 | 8.351  | 2253 | 2258 | 2262 | rVB2 | 187    | 198    | 0.02%  | 0.005% |
| 58 | 8.383  | 2262 | 2268 | 2275 | rVB2 | 501    | 650    | 0.06%  | 0.016% |
| 59 | 8.415  | 2275 | 2278 | 2282 | rBV2 | 446    | 347    | 0.03%  | 0.009% |
| 60 | 8.441  | 2282 | 2286 | 2289 | rBV2 | 217    | 153    | 0.02%  | 0.004% |
| 61 | 8.470  | 2294 | 2295 | 2297 | rBV2 | 282    | 132    | 0.01%  | 0.003% |
| 62 | 8.521  | 2307 | 2311 | 2312 | rBV2 | 244    | 159    | 0.02%  | 0.004% |
| 63 | 8.897  | 2416 | 2428 | 2449 | rBV  | 175578 | 293504 | 29.31% | 7.366% |
| 64 | 9.296  | 2548 | 2552 | 2555 | rBV2 | 184    | 196    | 0.02%  | 0.005% |
| 65 | 9.396  | 2579 | 2583 | 2585 | rBV  | 286    | 233    | 0.02%  | 0.006% |
| 66 | 9.572  | 2634 | 2638 | 2642 | rBV2 | 256    | 246    | 0.02%  | 0.006% |
| 67 | 9.772  | 2697 | 2700 | 2702 | rVB2 | 319    | 126    | 0.01%  | 0.003% |
| 68 | 9.881  | 2729 | 2734 | 2740 | rVB2 | 531    | 494    | 0.05%  | 0.012% |
| 69 | 9.955  | 2752 | 2757 | 2761 | rBV2 | 259    | 288    | 0.03%  | 0.007% |
| 70 | 10.010 | 2771 | 2774 | 2778 | rBV  | 178    | 147    | 0.01%  | 0.004% |
| 71 | 10.122 | 2806 | 2809 | 2811 | rBV  | 215    | 142    | 0.01%  | 0.004% |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV030519\  
 Data File : VV009502.D  
 Acq On : 05 Mar 2019 22:45  
 Operator : SY/MD  
 Sample : K1720-03  
 Misc : 5.37G/10ML/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF8A9

## 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\SOM2VLM030519S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 10.261 | 2841 | 2852 | 2867 | rBV  | 99944  | 157400 | 15.72% | 3.950% |
| 73  | 10.425 | 2894 | 2903 | 2912 | rBV4 | 4119   | 6463   | 0.65%  | 0.162% |
| 74  | 10.556 | 2942 | 2944 | 2947 | rBV  | 268    | 157    | 0.02%  | 0.004% |
| 75  | 10.621 | 2962 | 2964 | 2967 | rVB2 | 359    | 199    | 0.02%  | 0.005% |
| 76  | 10.646 | 2967 | 2972 | 2974 | rBV  | 199    | 182    | 0.02%  | 0.005% |
| 77  | 10.736 | 2996 | 3000 | 3002 | rBV  | 198    | 165    | 0.02%  | 0.004% |
| 78  | 10.814 | 3022 | 3024 | 3028 | rVB2 | 257    | 161    | 0.02%  | 0.004% |
| 79  | 10.984 | 3066 | 3077 | 3086 | rVB4 | 4478   | 7294   | 0.73%  | 0.183% |
| 80  | 11.196 | 3137 | 3143 | 3151 | rVB5 | 1487   | 2075   | 0.21%  | 0.052% |
| 81  | 11.238 | 3154 | 3156 | 3159 | rVB2 | 445    | 195    | 0.02%  | 0.005% |
| 82  | 11.296 | 3163 | 3174 | 3191 | rVV  | 139324 | 226154 | 22.58% | 5.676% |
| 83  | 11.363 | 3193 | 3195 | 3197 | rVB  | 368    | 123    | 0.01%  | 0.003% |
| 84  | 11.418 | 3208 | 3212 | 3214 | rBV3 | 517    | 446    | 0.04%  | 0.011% |
| 85  | 11.614 | 3269 | 3273 | 3277 | rBV3 | 331    | 295    | 0.03%  | 0.007% |
| 86  | 11.672 | 3279 | 3291 | 3310 | rVV  | 141998 | 228539 | 22.82% | 5.736% |
| 87  | 11.881 | 3353 | 3356 | 3360 | rVB3 | 564    | 393    | 0.04%  | 0.010% |
| 88  | 12.087 | 3417 | 3420 | 3424 | rBV2 | 275    | 267    | 0.03%  | 0.007% |
| 89  | 12.305 | 3478 | 3488 | 3498 | rBV2 | 2039   | 3306   | 0.33%  | 0.083% |
| 90  | 12.492 | 3544 | 3546 | 3552 | rVB2 | 564    | 328    | 0.03%  | 0.008% |
| 91  | 12.540 | 3558 | 3561 | 3563 | rBV2 | 370    | 219    | 0.02%  | 0.005% |
| 92  | 13.190 | 3760 | 3763 | 3764 | rBV  | 287    | 181    | 0.02%  | 0.005% |
| 93  | 13.392 | 3823 | 3826 | 3829 | rBV2 | 285    | 187    | 0.02%  | 0.005% |
| 94  | 13.608 | 3890 | 3893 | 3894 | rBV  | 311    | 195    | 0.02%  | 0.005% |
| 95  | 13.682 | 3911 | 3916 | 3918 | rBV  | 504    | 411    | 0.04%  | 0.010% |
| 96  | 13.801 | 3946 | 3953 | 3959 | rVB5 | 1153   | 1679   | 0.17%  | 0.042% |
| 97  | 14.071 | 4035 | 4037 | 4038 | rBV  | 465    | 232    | 0.02%  | 0.006% |
| 98  | 14.122 | 4049 | 4053 | 4054 | rBV2 | 226    | 147    | 0.01%  | 0.004% |
| 99  | 14.164 | 4064 | 4066 | 4068 | rBV  | 278    | 152    | 0.02%  | 0.004% |
| 100 | 14.264 | 4094 | 4097 | 4099 | rBV2 | 371    | 244    | 0.02%  | 0.006% |

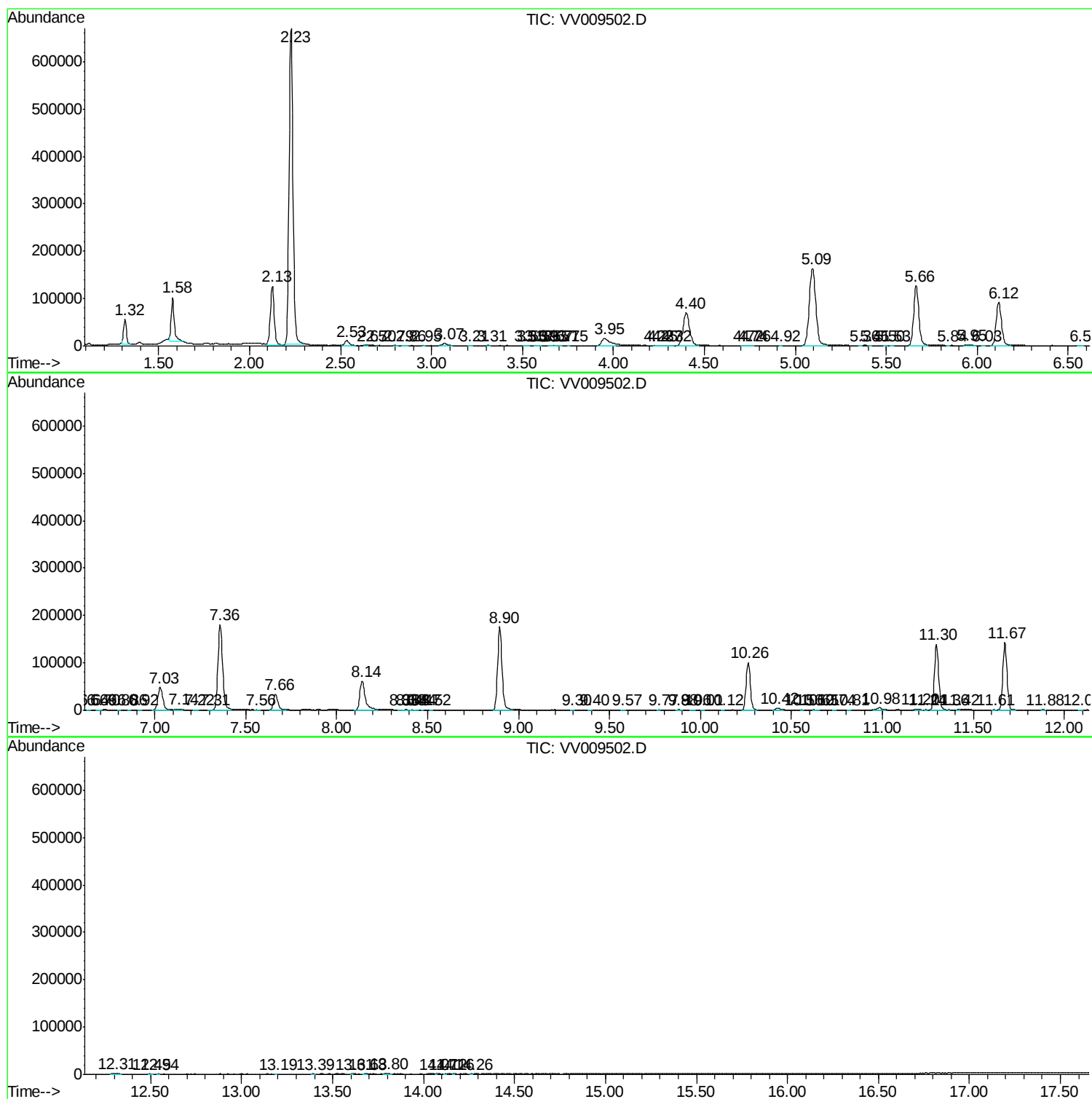
Sum of corrected areas: 3984615

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV030519\  
Data File : VV009502.D  
Acq On : 05 Mar 2019 22:45  
Operator : SY/MD  
Sample : K1720-03  
Misc : 5.37G/10ML/MSVOA V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF8A9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM030519S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV030519\  
Data File : VV009502.D  
Acq On : 05 Mar 2019 22:45  
Operator : SY/MD  
Sample : K1720-03  
Misc : 5.37G/10ML/MSVOA V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF8A9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM030519S.M  
Quant Title : VOC Analysis

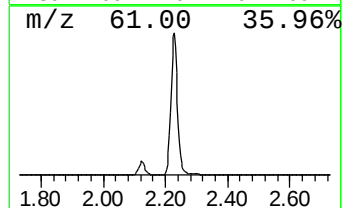
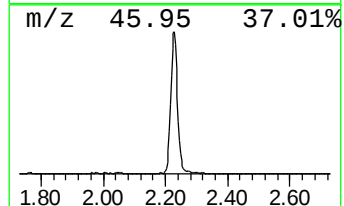
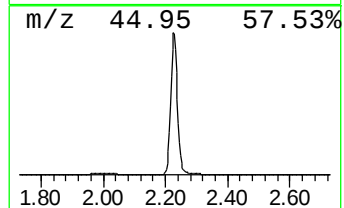
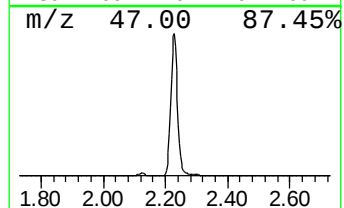
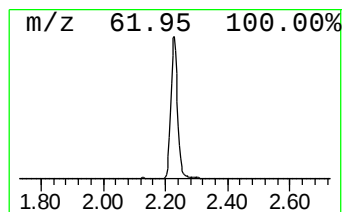
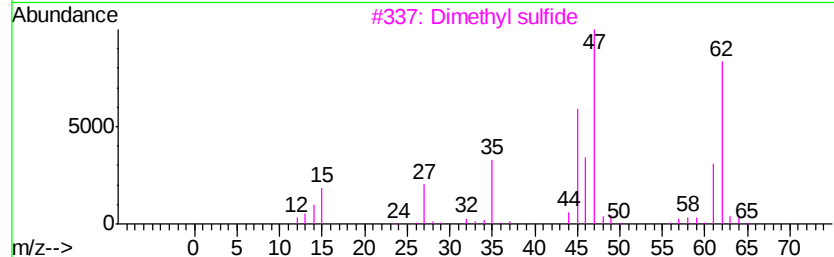
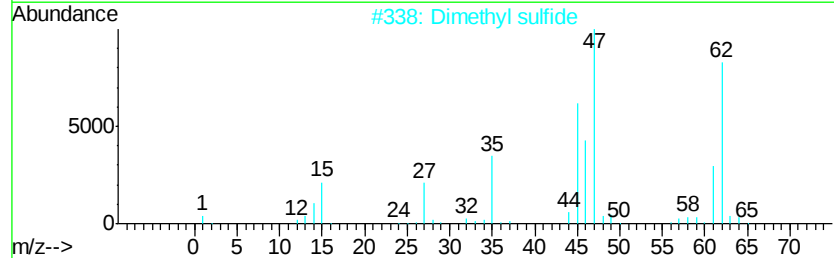
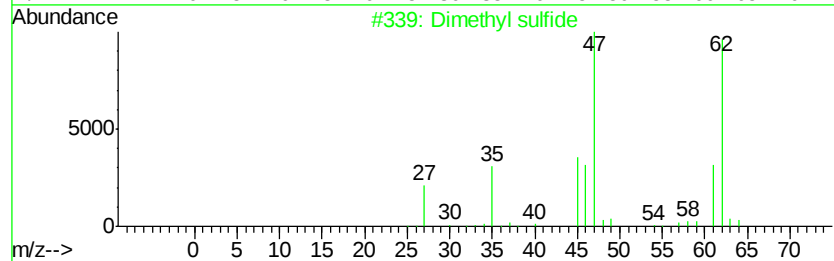
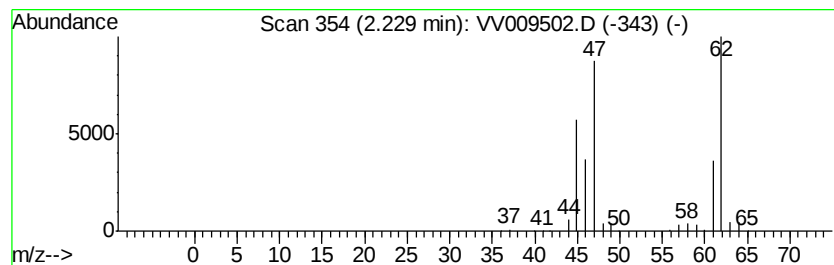
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Dimethyl sulfide Concentration Rank 1

| R.T. | EstConc     | Area    | Relative to ISTD    | R.T. |
|------|-------------|---------|---------------------|------|
| 2.23 | 100.56 ug/L | 1001420 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of | Tentative ID                  | MW | MolForm | CAS#        | Qual |
|------|----|-------------------------------|----|---------|-------------|------|
| 1    | 5  | Dimethyl sulfide              | 62 | C2H6S   | 000075-18-3 | 94   |
| 2    |    | Dimethyl sulfide              | 62 | C2H6S   | 000075-18-3 | 94   |
| 3    |    | Dimethyl sulfide              | 62 | C2H6S   | 000075-18-3 | 94   |
| 4    |    | Dimethyl sulfide              | 62 | C2H6S   | 000075-18-3 | 91   |
| 5    |    | Borane-methyl sulfide complex | 76 | C2H9BS  | 013292-87-0 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV030519\  
Data File : VV009502.D  
Acq On : 05 Mar 2019 22:45  
Operator : SY/MD  
Sample : K1720-03  
Misc : 5.37G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF8A9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM030519S.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 |
| Dimethyl sulfide | 2.23 | 100.6   | ug/L  | 1001420  | 1                     | 5.66 | 248950 | 25.0 |