

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV060724\  
 Data File : VV036011.D  
 Acq On : 07 Jun 2024 15:37  
 Operator : SY/MD  
 Sample : P2754-18  
 Misc : 5.49g/10.0mL/MSVOA\_V/SOIL/A  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A4BQ4

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\SFAMVLM053024SMA.M

Title : VOC Analysis

Signal : TIC: VV036011.D\data.ms

| 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         | 1.275       | 67            | 73          | 89           | rVB      | 190488         | 204436        | 14.46%          | 2.200%        |
| 2         | 1.529       | 145           | 152         | 169          | rVB      | 177323         | 212937        | 15.06%          | 2.292%        |
| 3         | 2.053       | 306           | 315         | 331          | rVB      | 316465         | 453077        | 32.05%          | 4.876%        |
| 4         | 2.442       | 425           | 436         | 455          | rBV      | 57638          | 99730         | 7.05%           | 1.073%        |
| 5         | 2.545       | 464           | 468         | 477          | rBV7     | 1174           | 1795          | 0.13%           | 0.019%        |
| 6         | 2.596       | 481           | 484         | 489          | rVB4     | 573            | 409           | 0.03%           | 0.004%        |
| 7         | 2.619       | 489           | 491         | 492          | rBV4     | 660            | 273           | 0.02%           | 0.003%        |
| 8         | 2.793       | 542           | 545         | 551          | rVB3     | 456            | 427           | 0.03%           | 0.005%        |
| 9         | 2.838       | 555           | 559         | 560          | rBV2     | 533            | 319           | 0.02%           | 0.003%        |
| 10        | 2.963       | 588           | 598         | 609          | rBV5     | 6429           | 13196         | 0.93%           | 0.142%        |
| 11        | 3.092       | 634           | 638         | 640          | rBV      | 384            | 322           | 0.02%           | 0.003%        |
| 12        | 3.104       | 640           | 642         | 644          | rVV      | 462            | 308           | 0.02%           | 0.003%        |
| 13        | 3.117       | 644           | 646         | 651          | rVB3     | 710            | 360           | 0.03%           | 0.004%        |
| 14        | 3.140       | 651           | 653         | 657          | rVB2     | 575            | 380           | 0.03%           | 0.004%        |
| 15        | 3.166       | 657           | 661         | 665          | rBV2     | 460            | 444           | 0.03%           | 0.005%        |
| 16        | 3.349       | 710           | 718         | 721          | rBV3     | 348            | 447           | 0.03%           | 0.005%        |
| 17        | 3.551       | 779           | 781         | 785          | rBV2     | 339            | 282           | 0.02%           | 0.003%        |
| 18        | 3.760       | 841           | 846         | 849          | rVB2     | 327            | 268           | 0.02%           | 0.003%        |
| 19        | 3.844       | 858           | 872         | 892          | rBV2     | 27646          | 114341        | 8.09%           | 1.231%        |
| 20        | 4.246       | 981           | 997         | 1032         | rBV      | 244004         | 646050        | 45.70%          | 6.953%        |
| 21        | 4.580       | 1099          | 1101        | 1104         | rBV      | 461            | 246           | 0.02%           | 0.003%        |
| 22        | 4.661       | 1124          | 1126        | 1129         | rBV2     | 395            | 251           | 0.02%           | 0.003%        |
| 23        | 4.744       | 1147          | 1152        | 1156         | rVV4     | 520            | 607           | 0.04%           | 0.007%        |
| 24        | 4.953       | 1201          | 1217        | 1260         | rBV2     | 533925         | 1413793       | 100.00%         | 15.217%       |
| 25        | 5.236       | 1303          | 1305        | 1309         | rVB4     | 761            | 494           | 0.03%           | 0.005%        |
| 26        | 5.307       | 1324          | 1327        | 1330         | rVB2     | 566            | 360           | 0.03%           | 0.004%        |
| 27        | 5.413       | 1356          | 1360        | 1363         | rVB4     | 660            | 534           | 0.04%           | 0.006%        |
| 28        | 5.439       | 1366          | 1368        | 1376         | rVB4     | 471            | 409           | 0.03%           | 0.004%        |
| 29        | 5.481       | 1378          | 1381        | 1385         | rBV2     | 512            | 322           | 0.02%           | 0.003%        |
| 30        | 5.532       | 1385          | 1397        | 1429         | rBV      | 484209         | 1024091       | 72.44%          | 11.022%       |
| 31        | 5.776       | 1471          | 1473        | 1476         | rBV5     | 619            | 362           | 0.03%           | 0.004%        |
| 32        | 5.831       | 1480          | 1490        | 1509         | rVB2     | 15122          | 34481         | 2.44%           | 0.371%        |
| 33        | 5.921       | 1515          | 1518        | 1520         | rVB2     | 558            | 292           | 0.02%           | 0.003%        |
| 34        | 5.985       | 1525          | 1538        | 1566         | rBV2     | 328892         | 701598        | 49.63%          | 7.551%        |
| 35        | 6.236       | 1614          | 1616        | 1618         | rVB      | 712            | 259           | 0.02%           | 0.003%        |
| 36        | 6.307       | 1634          | 1638        | 1641         | rVB4     | 557            | 362           | 0.03%           | 0.004%        |

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Integrator: RTE

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Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |        |         |        |         |
|----|-------|------|------|------|------|--------|---------|--------|---------|
| 37 | 6.326 | 1641 | 1644 | 1645 | rBV2 | 535    | 285     | 0.02%  | 0.003%  |
| 38 | 6.387 | 1661 | 1663 | 1665 | rBV2 | 442    | 268     | 0.02%  | 0.003%  |
| 39 | 6.448 | 1678 | 1682 | 1684 | rVV3 | 517    | 422     | 0.03%  | 0.005%  |
| 40 | 6.471 | 1687 | 1689 | 1692 | rVB3 | 797    | 434     | 0.03%  | 0.005%  |
| 41 | 6.497 | 1692 | 1697 | 1700 | rBV4 | 497    | 460     | 0.03%  | 0.005%  |
| 42 | 6.526 | 1700 | 1706 | 1707 | rBV3 | 494    | 542     | 0.04%  | 0.006%  |
| 43 | 6.603 | 1727 | 1730 | 1732 | rVB2 | 536    | 322     | 0.02%  | 0.003%  |
| 44 | 6.619 | 1732 | 1735 | 1739 | rBV4 | 400    | 296     | 0.02%  | 0.003%  |
| 45 | 6.648 | 1741 | 1744 | 1748 | rBV2 | 630    | 530     | 0.04%  | 0.006%  |
| 46 | 6.709 | 1760 | 1763 | 1766 | rVB3 | 594    | 444     | 0.03%  | 0.005%  |
| 47 | 6.757 | 1775 | 1778 | 1782 | rVB3 | 579    | 427     | 0.03%  | 0.005%  |
| 48 | 6.847 | 1799 | 1806 | 1810 | rVB2 | 375    | 265     | 0.02%  | 0.003%  |
| 49 | 6.915 | 1813 | 1827 | 1859 | rBV  | 139705 | 283360  | 20.04% | 3.050%  |
| 50 | 7.243 | 1918 | 1929 | 1957 | rBV  | 452399 | 826395  | 58.45% | 8.895%  |
| 51 | 7.554 | 2017 | 2026 | 2049 | rBV  | 87928  | 172437  | 12.20% | 1.856%  |
| 52 | 7.706 | 2070 | 2073 | 2076 | rBV3 | 604    | 422     | 0.03%  | 0.005%  |
| 53 | 7.767 | 2088 | 2092 | 2094 | rVB4 | 557    | 342     | 0.02%  | 0.004%  |
| 54 | 7.786 | 2094 | 2098 | 2100 | rBV3 | 617    | 443     | 0.03%  | 0.005%  |
| 55 | 7.831 | 2109 | 2112 | 2113 | rBV2 | 485    | 287     | 0.02%  | 0.003%  |
| 56 | 7.873 | 2114 | 2125 | 2134 | rVV3 | 9208   | 16888   | 1.19%  | 0.182%  |
| 57 | 7.908 | 2134 | 2136 | 2147 | rVB7 | 2606   | 3191    | 0.23%  | 0.034%  |
| 58 | 7.982 | 2154 | 2159 | 2161 | rVB  | 530    | 293     | 0.02%  | 0.003%  |
| 59 | 8.034 | 2166 | 2175 | 2216 | rBV  | 127992 | 313377  | 22.17% | 3.373%  |
| 60 | 8.403 | 2288 | 2290 | 2295 | rVB5 | 602    | 378     | 0.03%  | 0.004%  |
| 61 | 8.487 | 2309 | 2316 | 2318 | rBV3 | 657    | 622     | 0.04%  | 0.007%  |
| 62 | 8.596 | 2347 | 2350 | 2352 | rBV2 | 621    | 396     | 0.03%  | 0.004%  |
| 63 | 8.638 | 2360 | 2363 | 2367 | rBV3 | 591    | 439     | 0.03%  | 0.005%  |
| 64 | 8.661 | 2368 | 2370 | 2373 | rVV3 | 464    | 263     | 0.02%  | 0.003%  |
| 65 | 8.783 | 2393 | 2408 | 2442 | rBV  | 593812 | 1006989 | 71.23% | 10.838% |
| 66 | 8.966 | 2463 | 2465 | 2473 | rVB6 | 1696   | 1487    | 0.11%  | 0.016%  |
| 67 | 9.095 | 2501 | 2505 | 2513 | rVV7 | 1273   | 1804    | 0.13%  | 0.019%  |
| 68 | 9.143 | 2517 | 2520 | 2522 | rVB2 | 567    | 274     | 0.02%  | 0.003%  |
| 69 | 9.230 | 2543 | 2547 | 2550 | rVB3 | 676    | 416     | 0.03%  | 0.004%  |
| 70 | 9.284 | 2561 | 2564 | 2568 | rVB3 | 599    | 353     | 0.02%  | 0.004%  |
| 71 | 9.320 | 2568 | 2575 | 2579 | rVB4 | 313    | 412     | 0.03%  | 0.004%  |
| 72 | 9.384 | 2592 | 2595 | 2598 | rVB2 | 729    | 455     | 0.03%  | 0.005%  |
| 73 | 9.413 | 2602 | 2604 | 2610 | rVB3 | 737    | 522     | 0.04%  | 0.006%  |
| 74 | 9.493 | 2619 | 2629 | 2634 | rBV3 | 1204   | 1781    | 0.13%  | 0.019%  |
| 75 | 9.615 | 2663 | 2667 | 2671 | rVB4 | 375    | 340     | 0.02%  | 0.004%  |
| 76 | 9.638 | 2671 | 2674 | 2678 | rBV3 | 783    | 616     | 0.04%  | 0.007%  |

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Min Area: 0 % of largest Peak

Start Thrs: 0.2

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Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 77  | 9.680  | 2681 | 2687 | 2690 | rBV3 | 1090   | 913    | 0.06%  | 0.010% |
| 78  | 9.760  | 2709 | 2712 | 2717 | rVB3 | 668    | 512    | 0.04%  | 0.006% |
| 79  | 9.789  | 2717 | 2721 | 2726 | rBV2 | 563    | 595    | 0.04%  | 0.006% |
| 80  | 9.837  | 2726 | 2736 | 2745 | rBV7 | 4481   | 7276   | 0.51%  | 0.078% |
| 81  | 9.918  | 2757 | 2761 | 2765 | rVB2 | 470    | 466    | 0.03%  | 0.005% |
| 82  | 9.979  | 2777 | 2780 | 2784 | rBV3 | 381    | 352    | 0.02%  | 0.004% |
| 83  | 10.062 | 2797 | 2806 | 2815 | rVB4 | 7250   | 11161  | 0.79%  | 0.120% |
| 84  | 10.152 | 2822 | 2834 | 2854 | rBV  | 243796 | 396211 | 28.02% | 4.264% |
| 85  | 10.246 | 2861 | 2863 | 2874 | rVB7 | 1385   | 1911   | 0.14%  | 0.021% |
| 86  | 10.323 | 2877 | 2887 | 2900 | rVB2 | 37382  | 60699  | 4.29%  | 0.653% |
| 87  | 10.429 | 2918 | 2920 | 2922 | rBV2 | 566    | 356    | 0.03%  | 0.004% |
| 88  | 10.458 | 2922 | 2929 | 2930 | rBV4 | 1377   | 1416   | 0.10%  | 0.015% |
| 89  | 10.670 | 2990 | 2995 | 2997 | rBV5 | 886    | 862    | 0.06%  | 0.009% |
| 90  | 10.705 | 3001 | 3006 | 3008 | rBV3 | 1230   | 1188   | 0.08%  | 0.013% |
| 91  | 10.741 | 3015 | 3017 | 3018 | rBV  | 550    | 247    | 0.02%  | 0.003% |
| 92  | 10.767 | 3020 | 3025 | 3034 | rVB7 | 3612   | 5169   | 0.37%  | 0.056% |
| 93  | 10.853 | 3037 | 3052 | 3061 | rBV  | 16489  | 29018  | 2.05%  | 0.312% |
| 94  | 10.972 | 3077 | 3089 | 3098 | rBV2 | 7454   | 14406  | 1.02%  | 0.155% |
| 95  | 11.082 | 3114 | 3123 | 3132 | rBV2 | 29970  | 47602  | 3.37%  | 0.512% |
| 96  | 11.185 | 3145 | 3155 | 3172 | rBV  | 344849 | 563323 | 39.84% | 6.063% |
| 97  | 11.323 | 3192 | 3198 | 3205 | rBV2 | 22716  | 33916  | 2.40%  | 0.365% |
| 98  | 11.490 | 3240 | 3250 | 3261 | rBV3 | 27883  | 69485  | 4.91%  | 0.748% |
| 99  | 11.561 | 3262 | 3272 | 3299 | rVB  | 260016 | 457573 | 32.36% | 4.925% |
| 100 | 11.721 | 3315 | 3322 | 3328 | rBV6 | 11270  | 18464  | 1.31%  | 0.199% |

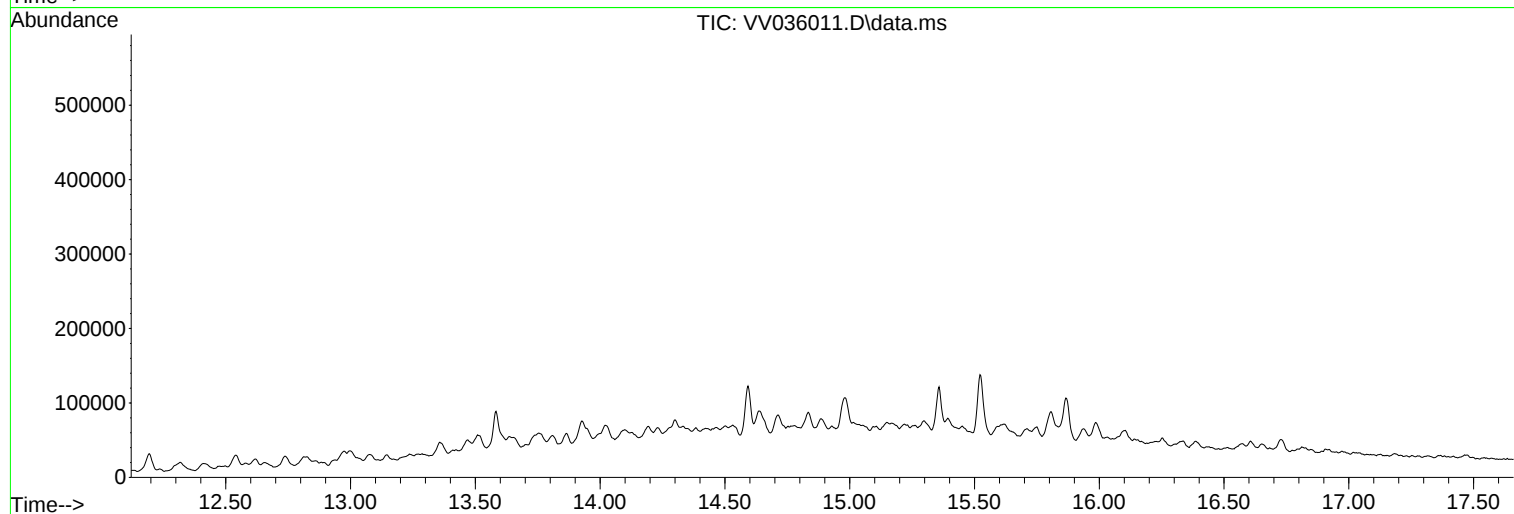
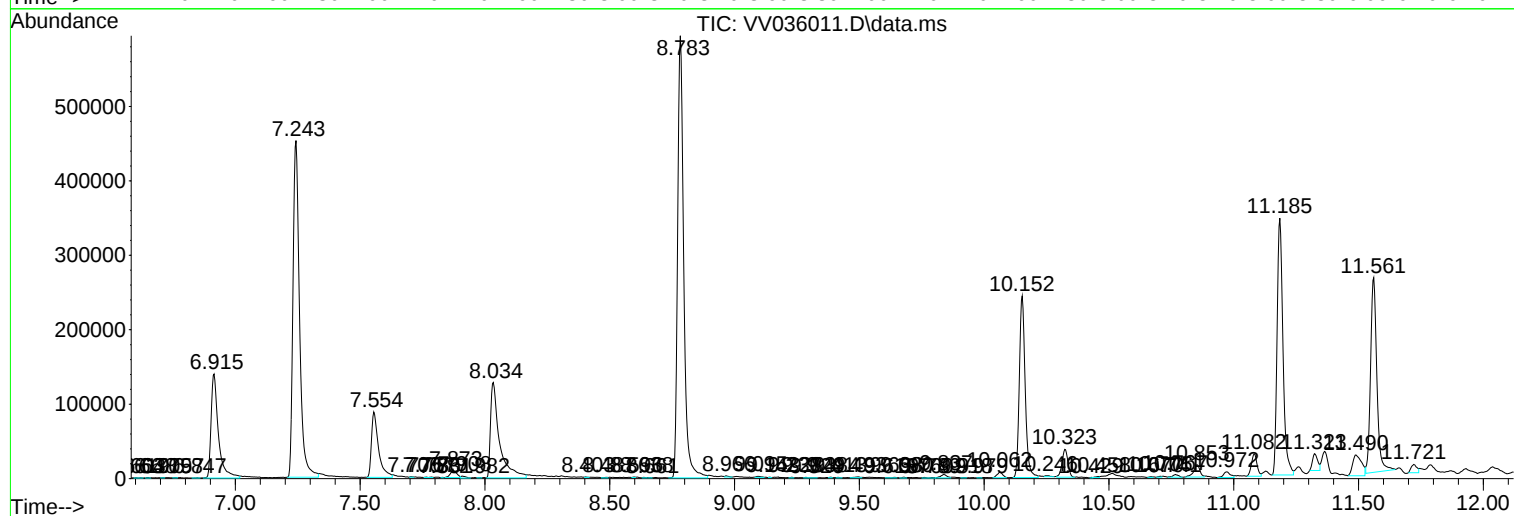
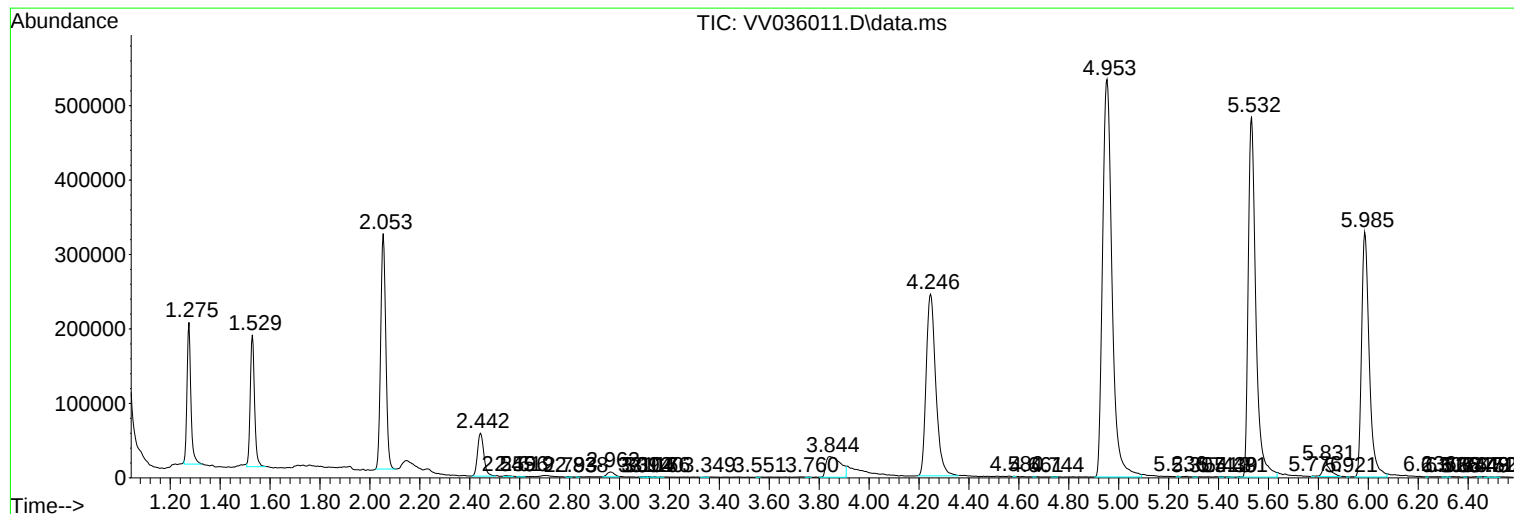
Sum of corrected areas: 9291060

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV060724\  
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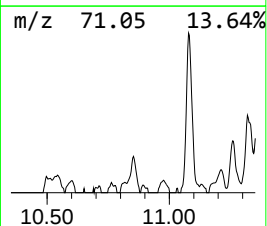
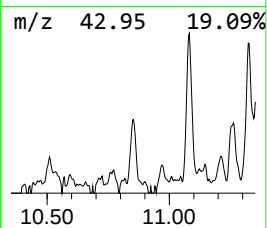
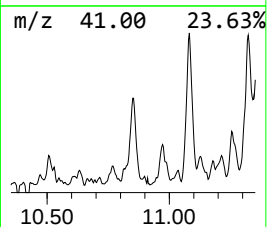
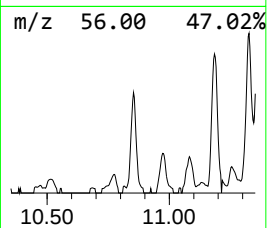
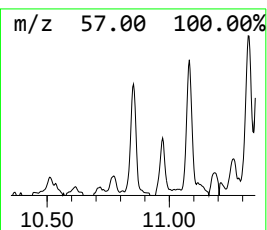
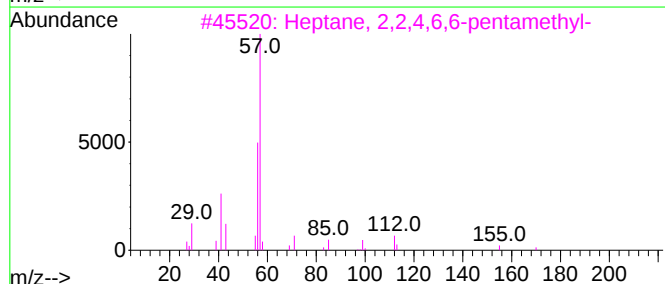
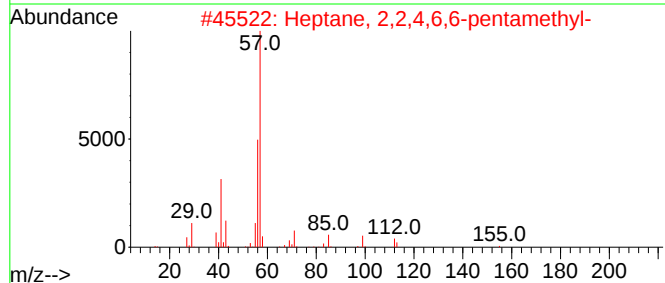
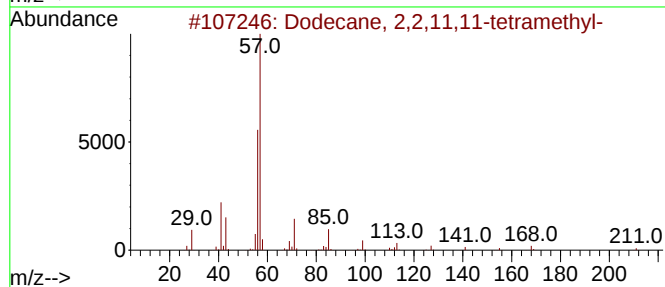
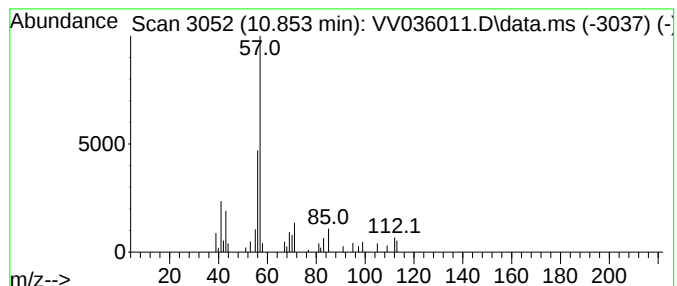
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 10.853 | 1.29 ug/L | 29018 | 1,4-Dichlorobenzene-d4 | 11.185 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Dodecane, 2,2,11,11-tetramethyl- | 226 | C16H34  | 127204-12-0 | 72   |
| 2    |    |   | Heptane, 2,2,4,6,6-pentamethyl-  | 170 | C12H26  | 013475-82-6 | 72   |
| 3    |    |   | Heptane, 2,2,4,6,6-pentamethyl-  | 170 | C12H26  | 013475-82-6 | 64   |
| 4    |    |   | Tetradecane, 2,2-dimethyl-       | 226 | C16H34  | 059222-86-5 | 64   |
| 5    |    |   | Octane, 2,2,6-trimethyl-         | 156 | C11H24  | 062016-28-8 | 59   |



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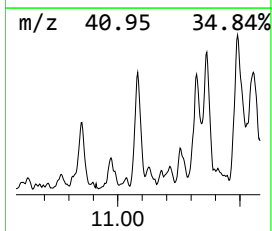
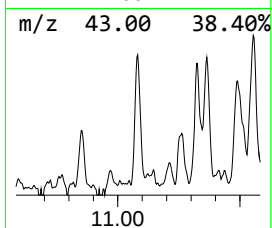
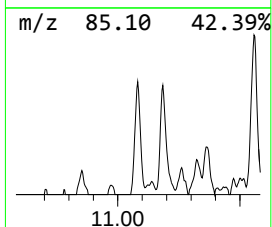
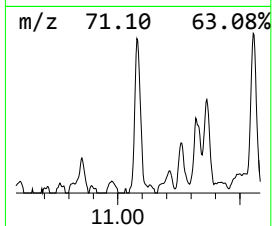
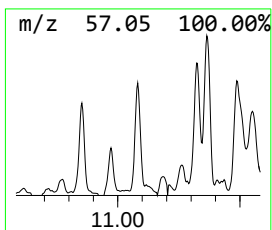
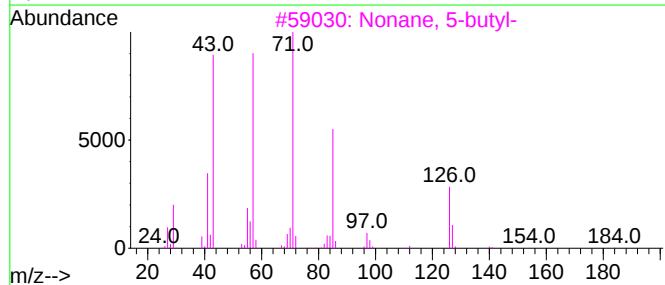
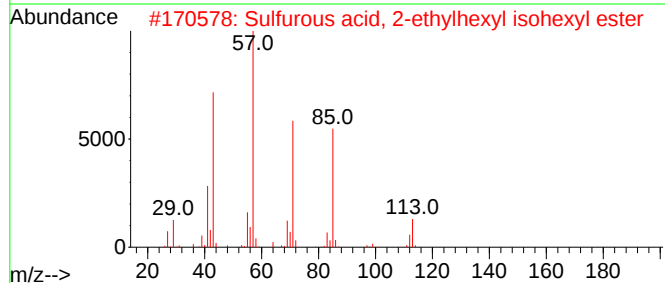
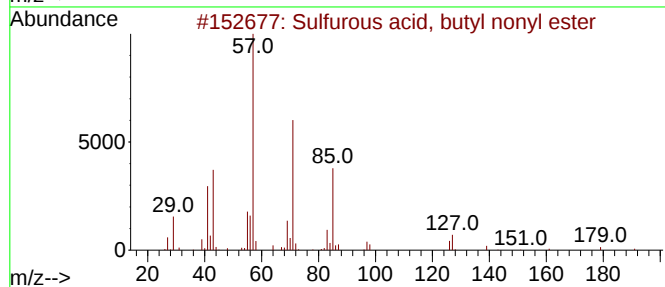
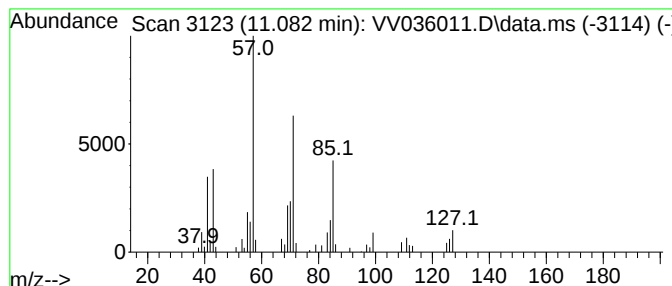
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Sulfurous acid, butyl nonyl... Concentration Rank 4

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 11.082 | 2.11 ug/L | 47602 | 1,4-Dichlorobenzene-d4 | 11.185 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Sulfurous acid, butyl nonyl ester   | 264 | C13H28O3S | 1000309-17-6 | 64   |
| 2    |    |   | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 52   |
| 3    |    |   | Nonane, 5-butyl-                    | 184 | C13H28    | 017312-63-9  | 50   |
| 4    |    |   | Ether, heptyl hexyl                 | 200 | C13H28O   | 007289-40-9  | 43   |
| 5    |    |   | Hexane, 1-(hexyloxy)-5-methyl-      | 200 | C13H28O   | 074421-19-5  | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV060724\  
Data File : VV036011.D  
Acq On : 07 Jun 2024 15:37  
Operator : SY/MD  
Sample : P2754-18  
Misc : 5.49g/10.0mL/MSVOA\_V/SOIL/A  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A4BQ4

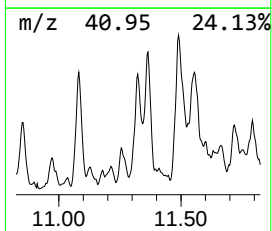
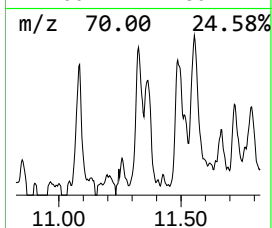
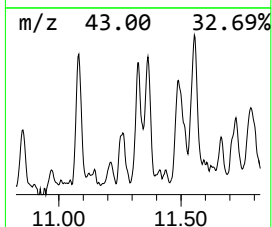
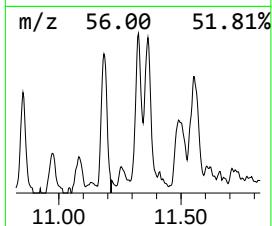
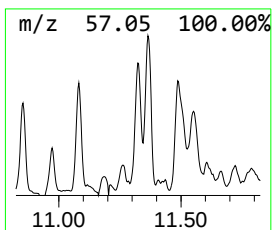
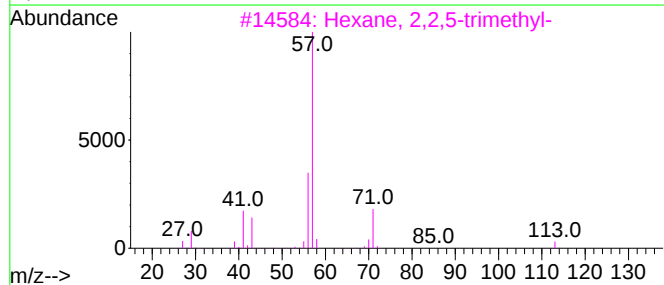
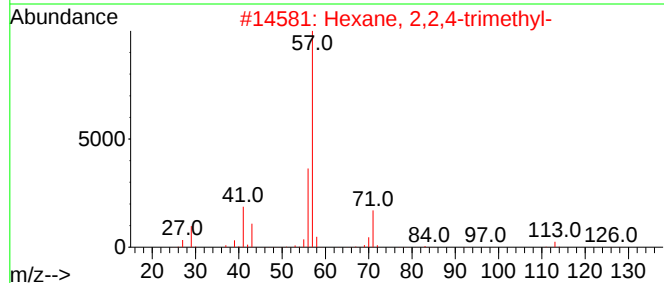
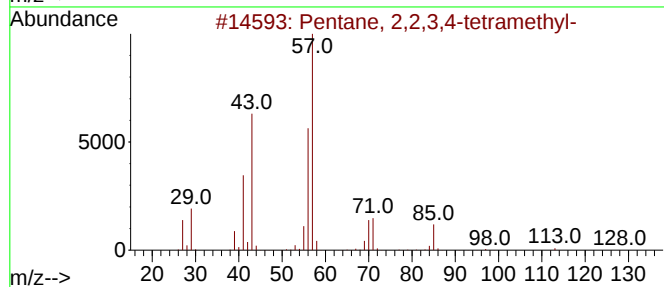
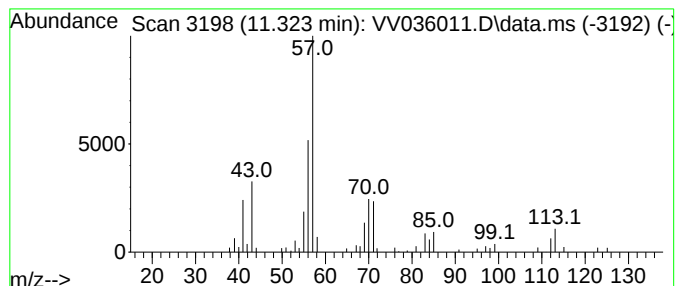
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Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 11.323 | 1.51 ug/L | 33916 | 1,4-Dichlorobenzene-d4 | 11.185 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentane, 2,2,3,4-tetramethyl- | 128 | C9H20   | 001186-53-4 | 59   |
| 2    |    |   | Hexane, 2,2,4-trimethyl-      | 128 | C9H20   | 016747-26-5 | 50   |
| 3    |    |   | Hexane, 2,2,5-trimethyl-      | 128 | C9H20   | 003522-94-9 | 50   |
| 4    |    |   | Heptane, 2,2-dimethyl-        | 128 | C9H20   | 001071-26-7 | 47   |
| 5    |    |   | Decane, 2,5,6-trimethyl-      | 184 | C13H28  | 062108-23-0 | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV060724\  
Data File : VV036011.D  
Acq On : 07 Jun 2024 15:37  
Operator : SY/MD  
Sample : P2754-18  
Misc : 5.49g/10.0mL/MSVOA\_V/SOIL/A  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A4BQ4

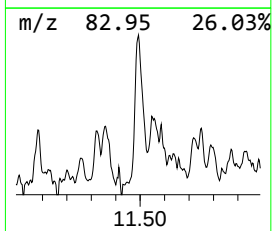
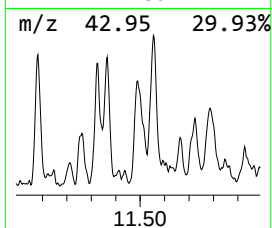
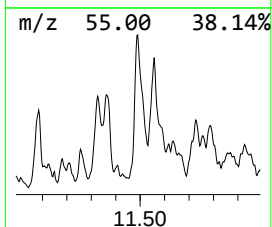
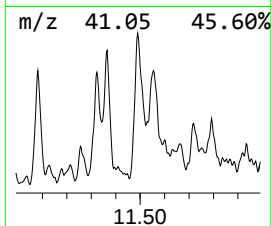
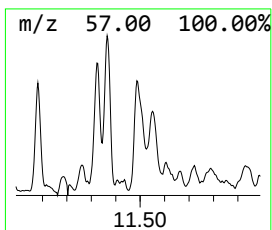
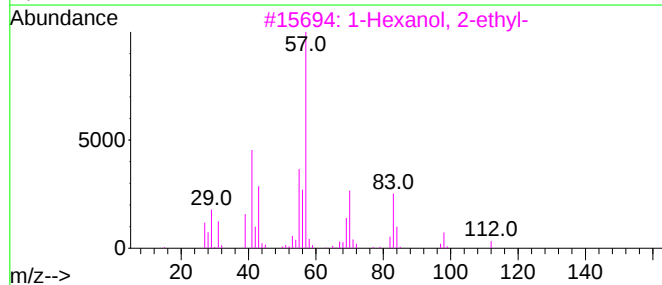
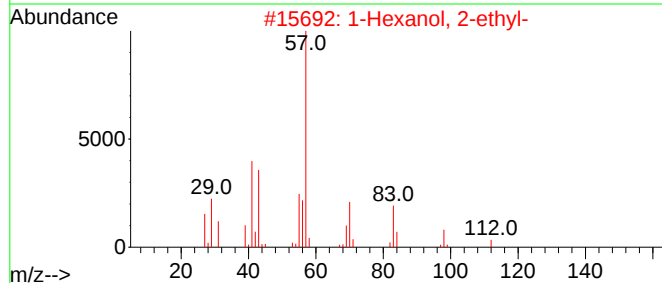
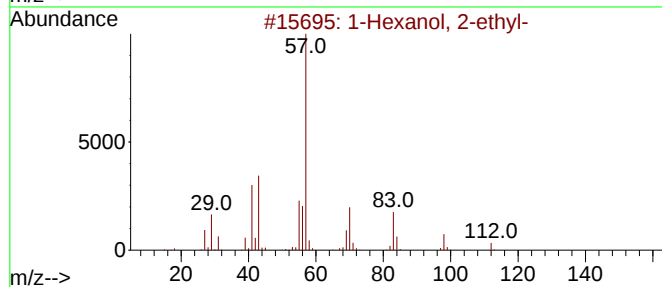
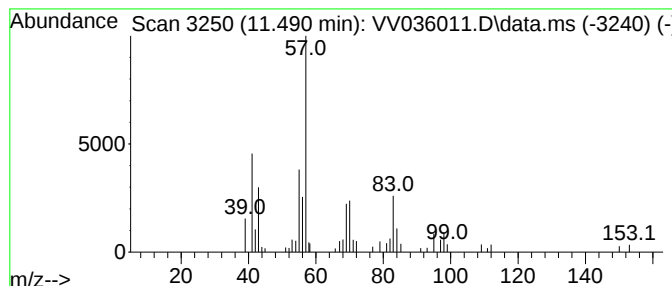
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Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 1-Hexanol, 2-ethyl- Concentration Rank 2

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 11.490 | 3.08 ug/L | 69485 | 1,4-Dichlorobenzene-d4 | 11.185 |

| Hit# | of                  | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|---------------------|---|--------------|-----|---------|-------------|------|
| 1    | 1-Hexanol, 2-ethyl- |   |              | 130 | C8H18O  | 000104-76-7 | 78   |
| 2    | 1-Hexanol, 2-ethyl- |   |              | 130 | C8H18O  | 000104-76-7 | 78   |
| 3    | 1-Hexanol, 2-ethyl- |   |              | 130 | C8H18O  | 000104-76-7 | 72   |
| 4    | 1-Hexanol, 2-ethyl- |   |              | 130 | C8H18O  | 000104-76-7 | 64   |
| 5    | 1-Hexanol, 2-ethyl- |   |              | 130 | C8H18O  | 000104-76-7 | 64   |



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Sample : P2754-18  
Misc : 5.49g/10.0mL/MSVOA\_V/SOIL/A  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A4BQ4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| (DEL) Alkane: S... | 10.853 | 1.3     | ug/L  | 29018    | 3                     | 11.185 | 563323 | 25.0 |
| Sulfurous acid,... | 11.082 | 2.1     | ug/L  | 47602    | 3                     | 11.185 | 563323 | 25.0 |
| (DEL) Alkane: S... | 11.323 | 1.5     | ug/L  | 33916    | 3                     | 11.185 | 563323 | 25.0 |
| 1-Hexanol, 2-et... | 11.490 | 3.1     | ug/L  | 69485    | 3                     | 11.185 | 563323 | 25.0 |