

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU100821\  
 Data File : VU045248.D  
 Acq On : 08 Oct 2021 13:54  
 Operator : SY/MD  
 Sample : M4025-15DL 5X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0AN8DL

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\_U\Method\SFAMULM092321WMA.M

Title : VOC Analysis

Signal : TIC: VU045248.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         | 1.475       | 33            | 42          | 55           | rBV2     | 98557          | 130053        | 9.88%           | 1.205%        |
| 2         | 1.601       | 74            | 81          | 94           | rVB      | 153882         | 168921        | 12.83%          | 1.566%        |
| 3         | 1.893       | 164           | 172         | 185          | rVB      | 127047         | 170134        | 12.92%          | 1.577%        |
| 4         | 2.562       | 368           | 380         | 399          | rBV2     | 249608         | 448401        | 34.06%          | 4.156%        |
| 5         | 2.732       | 430           | 433         | 436          | rVB2     | 278            | 150           | 0.01%           | 0.001%        |
| 6         | 2.758       | 436           | 441         | 442          | rBV2     | 239            | 222           | 0.02%           | 0.002%        |
| 7         | 2.906       | 482           | 487         | 493          | rBV2     | 181            | 283           | 0.02%           | 0.003%        |
| 8         | 3.048       | 522           | 531         | 542          | rBV3     | 5076           | 9398          | 0.71%           | 0.087%        |
| 9         | 3.134       | 555           | 558         | 561          | rVB      | 216            | 159           | 0.01%           | 0.001%        |
| 10        | 3.189       | 564           | 575         | 591          | rBV2     | 3848           | 8956          | 0.68%           | 0.083%        |
| 11        | 3.282       | 599           | 604         | 607          | rBV2     | 228            | 236           | 0.02%           | 0.002%        |
| 12        | 3.356       | 619           | 627         | 634          | rBV3     | 1688           | 2987          | 0.23%           | 0.028%        |
| 13        | 3.446       | 651           | 655         | 658          | rVB      | 209            | 170           | 0.01%           | 0.002%        |
| 14        | 3.572       | 688           | 694         | 697          | rBV2     | 144            | 172           | 0.01%           | 0.002%        |
| 15        | 3.877       | 777           | 789         | 800          | rBV3     | 1163           | 2863          | 0.22%           | 0.027%        |
| 16        | 4.353       | 934           | 937         | 943          | rVB      | 172            | 136           | 0.01%           | 0.001%        |
| 17        | 4.395       | 948           | 950         | 953          | rVB      | 233            | 153           | 0.01%           | 0.001%        |
| 18        | 4.449       | 961           | 967         | 970          | rBV      | 139            | 153           | 0.01%           | 0.001%        |
| 19        | 4.504       | 981           | 984         | 989          | rVB2     | 184            | 158           | 0.01%           | 0.001%        |
| 20        | 4.533       | 989           | 993         | 998          | rBV      | 233            | 181           | 0.01%           | 0.002%        |
| 21        | 4.568       | 1001          | 1004        | 1007         | rBV2     | 254            | 180           | 0.01%           | 0.002%        |
| 22        | 4.629       | 1007          | 1023        | 1031         | rBV      | 157531         | 371755        | 28.24%          | 3.445%        |
| 23        | 4.874       | 1094          | 1099        | 1103         | rBV2     | 183            | 230           | 0.02%           | 0.002%        |
| 24        | 4.922       | 1112          | 1114        | 1117         | rBV3     | 274            | 208           | 0.02%           | 0.002%        |
| 25        | 5.067       | 1142          | 1159        | 1182         | rBV      | 235033         | 507643        | 38.56%          | 4.705%        |
| 26        | 5.147       | 1182          | 1184        | 1187         | rVV      | 205            | 131           | 0.01%           | 0.001%        |
| 27        | 5.166       | 1187          | 1190        | 1193         | rVB2     | 205            | 169           | 0.01%           | 0.002%        |
| 28        | 5.215       | 1202          | 1205        | 1210         | rVB2     | 328            | 273           | 0.02%           | 0.003%        |
| 29        | 5.321       | 1222          | 1238        | 1255         | rBV      | 43869          | 97485         | 7.41%           | 0.903%        |
| 30        | 5.729       | 1343          | 1365        | 1392         | rBV2     | 486638         | 1316466       | 100.00%         | 12.201%       |
| 31        | 6.012       | 1450          | 1453        | 1458         | rVB      | 265            | 248           | 0.02%           | 0.002%        |
| 32        | 6.038       | 1458          | 1461        | 1463         | rBV      | 307            | 227           | 0.02%           | 0.002%        |
| 33        | 6.112       | 1482          | 1484        | 1487         | rVV      | 349            | 215           | 0.02%           | 0.002%        |
| 34        | 6.128       | 1487          | 1489        | 1491         | rVV      | 282            | 143           | 0.01%           | 0.001%        |
| 35        | 6.253       | 1512          | 1528        | 1547         | rBV      | 355906         | 667377        | 50.69%          | 6.185%        |
| 36        | 6.546       | 1604          | 1619        | 1644         | rBV      | 436266         | 819648        | 62.26%          | 7.596%        |

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Integrator: RTE

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Min Area: 0 % of largest Peak

Start Thrs: 0.2

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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\_U\Method\SFAMULM092321WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 37 | 6.694  | 1651 | 1665 | 1686 | rBV  | 312355 | 606035  | 46.03% | 5.617% |
| 38 | 6.809  | 1698 | 1701 | 1713 | rVB4 | 857    | 1033    | 0.08%  | 0.010% |
| 39 | 6.925  | 1730 | 1737 | 1740 | rBV2 | 251    | 354     | 0.03%  | 0.003% |
| 40 | 6.944  | 1740 | 1743 | 1747 | rVB2 | 217    | 194     | 0.01%  | 0.002% |
| 41 | 7.041  | 1768 | 1773 | 1776 | rBV2 | 497    | 571     | 0.04%  | 0.005% |
| 42 | 7.182  | 1809 | 1817 | 1829 | rVB4 | 3098   | 5097    | 0.39%  | 0.047% |
| 43 | 7.337  | 1863 | 1865 | 1872 | rVB2 | 158    | 192     | 0.01%  | 0.002% |
| 44 | 7.379  | 1874 | 1878 | 1882 | rVB  | 227    | 218     | 0.02%  | 0.002% |
| 45 | 7.459  | 1900 | 1903 | 1907 | rBV2 | 180    | 169     | 0.01%  | 0.002% |
| 46 | 7.491  | 1908 | 1913 | 1916 | rVB2 | 182    | 177     | 0.01%  | 0.002% |
| 47 | 7.568  | 1923 | 1937 | 1959 | rBV  | 168305 | 288962  | 21.95% | 2.678% |
| 48 | 7.649  | 1959 | 1962 | 1964 | rBV2 | 213    | 125     | 0.01%  | 0.001% |
| 49 | 7.687  | 1967 | 1974 | 1986 | rVB4 | 1802   | 3014    | 0.23%  | 0.028% |
| 50 | 7.903  | 2026 | 2041 | 2055 | rBV  | 582418 | 1002503 | 76.15% | 9.291% |
| 51 | 7.973  | 2057 | 2063 | 2073 | rVB2 | 8692   | 13151   | 1.00%  | 0.122% |
| 52 | 8.073  | 2090 | 2094 | 2101 | rVB4 | 405    | 523     | 0.04%  | 0.005% |
| 53 | 8.128  | 2108 | 2111 | 2113 | rBV  | 184    | 123     | 0.01%  | 0.001% |
| 54 | 8.182  | 2115 | 2128 | 2145 | rVV  | 120900 | 196147  | 14.90% | 1.818% |
| 55 | 8.404  | 2194 | 2197 | 2204 | rVB5 | 584    | 602     | 0.05%  | 0.006% |
| 56 | 8.478  | 2216 | 2220 | 2222 | rBV2 | 136    | 128     | 0.01%  | 0.001% |
| 57 | 8.636  | 2256 | 2269 | 2309 | rBV  | 432732 | 780170  | 59.26% | 7.231% |
| 58 | 8.851  | 2332 | 2336 | 2338 | rBV  | 158    | 128     | 0.01%  | 0.001% |
| 59 | 9.173  | 2432 | 2436 | 2438 | rBV  | 156    | 150     | 0.01%  | 0.001% |
| 60 | 9.224  | 2448 | 2452 | 2456 | rBV  | 188    | 189     | 0.01%  | 0.002% |
| 61 | 9.259  | 2460 | 2463 | 2466 | rBV2 | 392    | 306     | 0.02%  | 0.003% |
| 62 | 9.420  | 2499 | 2513 | 2536 | rBV  | 513994 | 834852  | 63.42% | 7.737% |
| 63 | 9.575  | 2555 | 2561 | 2568 | rVB4 | 746    | 1128    | 0.09%  | 0.010% |
| 64 | 9.700  | 2591 | 2600 | 2608 | rVB  | 2046   | 3025    | 0.23%  | 0.028% |
| 65 | 9.784  | 2621 | 2626 | 2629 | rBV2 | 171    | 196     | 0.01%  | 0.002% |
| 66 | 9.841  | 2638 | 2644 | 2648 | rBV2 | 166    | 190     | 0.01%  | 0.002% |
| 67 | 9.909  | 2661 | 2665 | 2668 | rBV  | 237    | 210     | 0.02%  | 0.002% |
| 68 | 9.925  | 2668 | 2670 | 2676 | rVB  | 125    | 122     | 0.01%  | 0.001% |
| 69 | 10.018 | 2697 | 2699 | 2702 | rBV  | 189    | 134     | 0.01%  | 0.001% |
| 70 | 10.063 | 2708 | 2713 | 2716 | rBV2 | 165    | 195     | 0.01%  | 0.002% |
| 71 | 10.102 | 2721 | 2725 | 2726 | rBV  | 328    | 269     | 0.02%  | 0.002% |
| 72 | 10.603 | 2877 | 2881 | 2884 | rBV2 | 169    | 152     | 0.01%  | 0.001% |
| 73 | 10.677 | 2896 | 2904 | 2911 | rVB3 | 2044   | 2933    | 0.22%  | 0.027% |
| 74 | 10.761 | 2917 | 2930 | 2954 | rVB  | 451323 | 725492  | 55.11% | 6.724% |
| 75 | 10.877 | 2960 | 2966 | 2970 | rBV3 | 362    | 449     | 0.03%  | 0.004% |
| 76 | 10.928 | 2980 | 2982 | 2985 | rBV  | 293    | 188     | 0.01%  | 0.002% |

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Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0AN8DL

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

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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\_U\Method\SFAMULM092321WMA.M

Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 77  | 10.948 | 2985 | 2988 | 2992 | rVV2 | 153    | 146    | 0.01%  | 0.001% |
| 78  | 11.176 | 3056 | 3059 | 3062 | rVB  | 217    | 163    | 0.01%  | 0.002% |
| 79  | 11.202 | 3062 | 3067 | 3070 | rBV  | 196    | 178    | 0.01%  | 0.002% |
| 80  | 11.427 | 3134 | 3137 | 3140 | rBV2 | 175    | 160    | 0.01%  | 0.001% |
| 81  | 11.462 | 3140 | 3148 | 3160 | rVB4 | 1535   | 2514   | 0.19%  | 0.023% |
| 82  | 11.587 | 3181 | 3187 | 3190 | rBV3 | 356    | 467    | 0.04%  | 0.004% |
| 83  | 11.700 | 3216 | 3222 | 3229 | rBV4 | 857    | 1086   | 0.08%  | 0.010% |
| 84  | 11.729 | 3229 | 3231 | 3234 | rVB  | 266    | 142    | 0.01%  | 0.001% |
| 85  | 11.748 | 3234 | 3237 | 3240 | rBV  | 305    | 248    | 0.02%  | 0.002% |
| 86  | 11.816 | 3246 | 3258 | 3278 | rBV  | 454645 | 722759 | 54.90% | 6.698% |
| 87  | 11.886 | 3278 | 3280 | 3283 | rBV  | 370    | 238    | 0.02%  | 0.002% |
| 88  | 11.925 | 3290 | 3292 | 3294 | rBV2 | 309    | 137    | 0.01%  | 0.001% |
| 89  | 11.944 | 3296 | 3298 | 3300 | rVV2 | 651    | 381    | 0.03%  | 0.004% |
| 90  | 11.976 | 3303 | 3308 | 3315 | rVB4 | 1514   | 1871   | 0.14%  | 0.017% |
| 91  | 12.195 | 3363 | 3376 | 3398 | rBV  | 529298 | 860692 | 65.38% | 7.977% |
| 92  | 13.037 | 3631 | 3638 | 3648 | rBV2 | 287    | 613    | 0.05%  | 0.006% |
| 93  | 13.140 | 3667 | 3670 | 3672 | rBV2 | 210    | 148    | 0.01%  | 0.001% |
| 94  | 13.629 | 3819 | 3822 | 3823 | rBV  | 218    | 151    | 0.01%  | 0.001% |
| 95  | 13.761 | 3859 | 3863 | 3870 | rVB2 | 172    | 219    | 0.02%  | 0.002% |
| 96  | 14.095 | 3965 | 3967 | 3975 | rVB  | 572    | 616    | 0.05%  | 0.006% |
| 97  | 14.147 | 3980 | 3983 | 3986 | rBV2 | 247    | 181    | 0.01%  | 0.002% |
| 98  | 14.253 | 4013 | 4016 | 4018 | rBV  | 225    | 190    | 0.01%  | 0.002% |
| 99  | 14.816 | 4188 | 4191 | 4193 | rBV2 | 311    | 228    | 0.02%  | 0.002% |
| 100 | 14.867 | 4204 | 4207 | 4211 | rBV2 | 323    | 265    | 0.02%  | 0.002% |

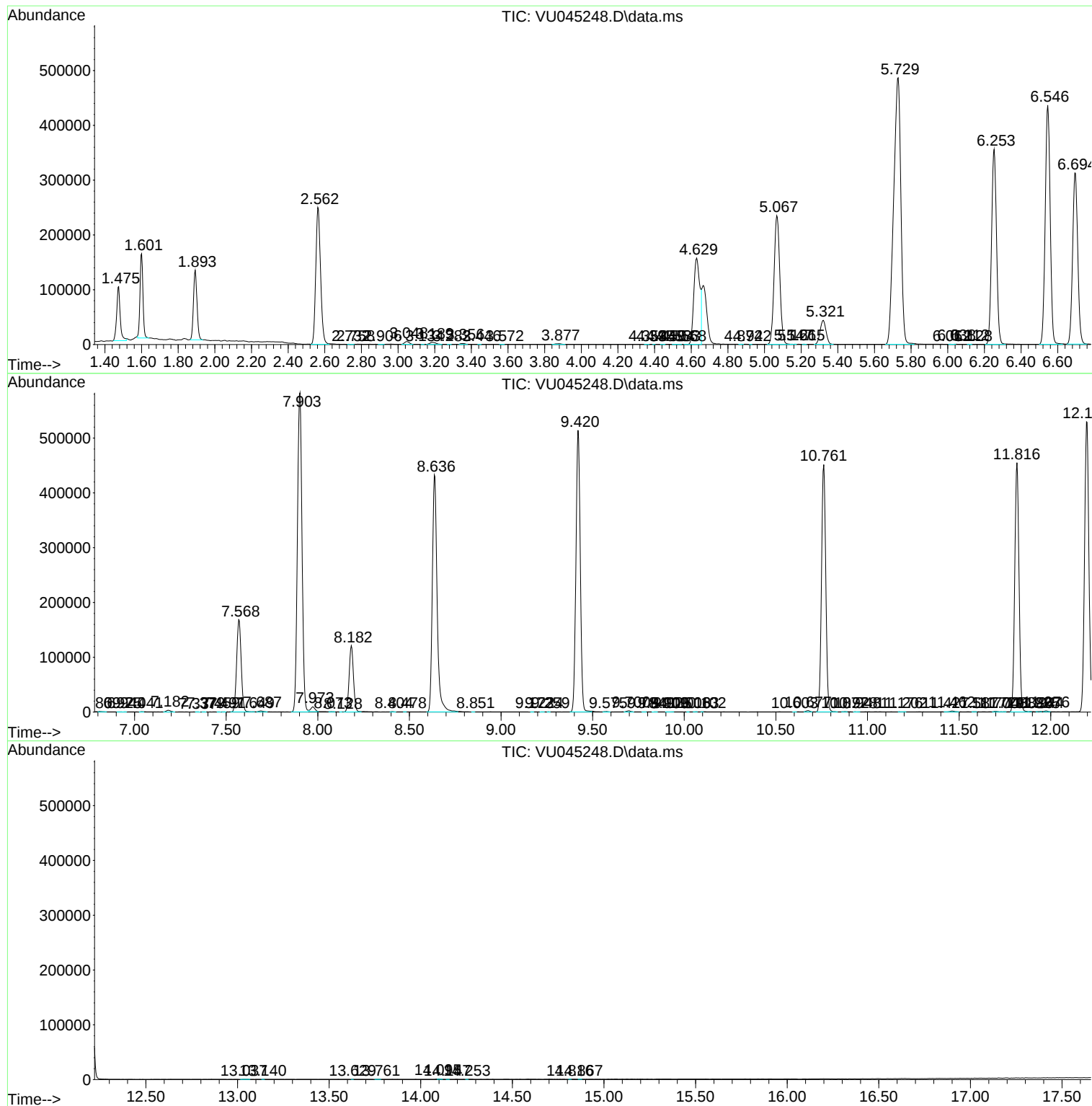
Sum of corrected areas: 10789873

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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
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C0AN8DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092321WMA.M  
Quant Title : VOC Analysis

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



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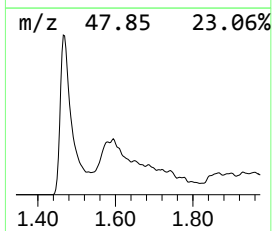
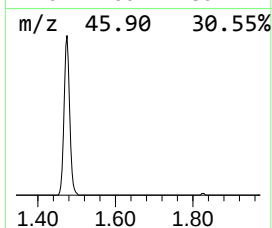
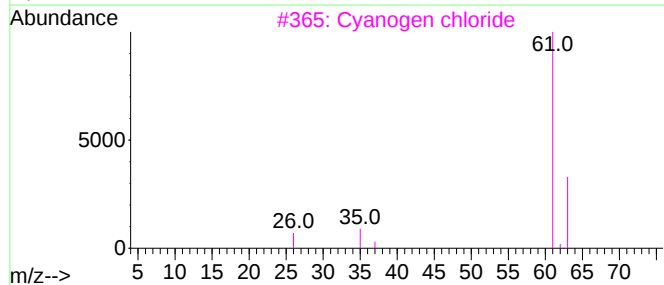
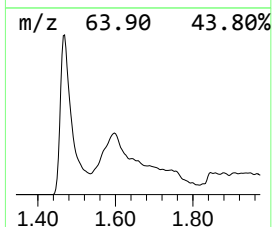
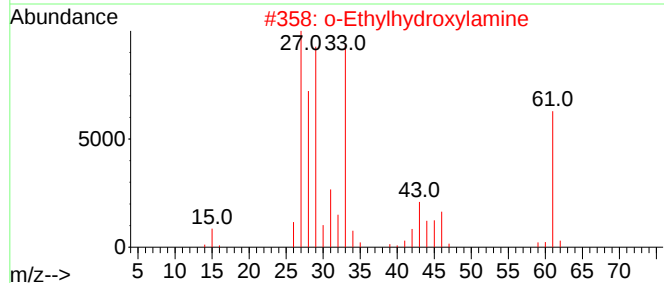
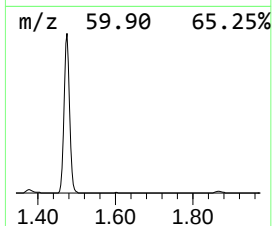
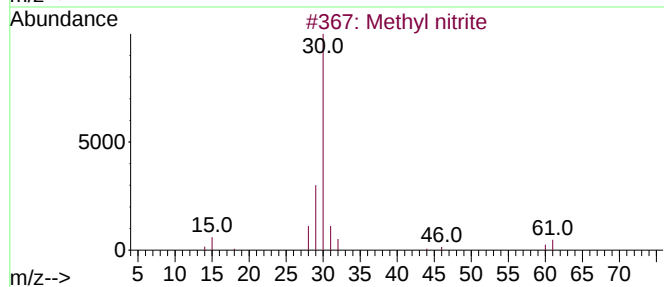
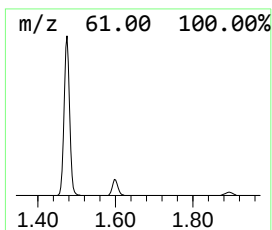
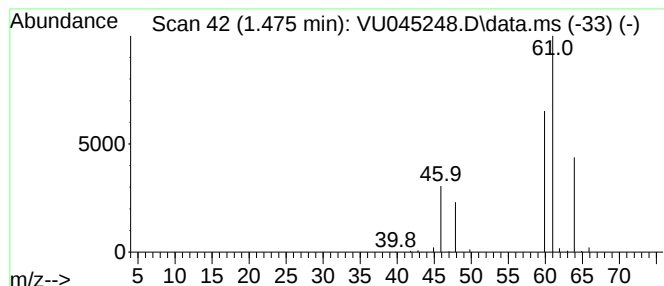
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown-01 Concentration Rank 2

| R.T.  | EstConc   | Area   | Relative to ISTD    | R.T.  |
|-------|-----------|--------|---------------------|-------|
| 1.475 | 9.74 ug/L | 130053 | 1,4-Difluorobenzene | 6.253 |

| Hit# | of | 5 | Tentative ID            | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|----|---------|-------------|------|
| 1    |    |   | Methyl nitrite          | 61 | CH3NO2  | 000624-91-9 | 5    |
| 2    |    |   | o-Ethylhydroxylamine    | 61 | C2H7NO  | 000624-86-2 | 4    |
| 3    |    |   | Cyanogen chloride       | 61 | CClN    | 000506-77-4 | 4    |
| 4    |    |   | Cyanogen chloride       | 61 | CClN    | 000506-77-4 | 4    |
| 5    |    |   | Methanamine, N-methoxy- | 61 | C2H7NO  | 001117-97-1 | 3    |



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Quant Title : VOC Analysis

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TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                  |       |         |       |          | #                     | RT    | Resp   | Conc |
| unknown-01       | 1.475 | 9.7     | ug/L  | 130053   | 1                     | 6.253 | 667377 | 50.0 |