

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV121123\  
 Data File : VV033206.D  
 Acq On : 11 Dec 2023 12:40  
 Operator : SY/MD  
 Sample : 05689-16  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VHBLK001

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\SFAMVLM120123WMA.M  
 Title : VOC Analysis

Signal : TIC: VV033206.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         | 1.281       | 68            | 75          | 89           | rVB      | 92977          | 100604        | 11.82%          | 1.500%        |
| 2         | 1.416       | 111           | 117         | 126          | rBV7     | 4247           | 6505          | 0.76%           | 0.097%        |
| 3         | 1.532       | 145           | 153         | 166          | rVB      | 75125          | 89457         | 10.51%          | 1.334%        |
| 4         | 2.059       | 304           | 317         | 330          | rBV      | 156192         | 228045        | 26.80%          | 3.400%        |
| 5         | 2.439       | 432           | 435         | 437          | rBV2     | 758            | 555           | 0.07%           | 0.008%        |
| 6         | 2.966       | 596           | 599         | 601          | rBV2     | 496            | 343           | 0.04%           | 0.005%        |
| 7         | 3.021       | 613           | 616         | 618          | rBV      | 458            | 316           | 0.04%           | 0.005%        |
| 8         | 3.783       | 844           | 853         | 883          | rBV      | 54358          | 147321        | 17.31%          | 2.197%        |
| 9         | 4.249       | 982           | 998         | 1027         | rBV      | 142026         | 367038        | 43.13%          | 5.473%        |
| 10        | 4.558       | 1091          | 1094        | 1096         | rBV3     | 751            | 563           | 0.07%           | 0.008%        |
| 11        | 4.632       | 1110          | 1117        | 1121         | rVB      | 690            | 803           | 0.09%           | 0.012%        |
| 12        | 4.661       | 1121          | 1126        | 1129         | rBV3     | 581            | 630           | 0.07%           | 0.009%        |
| 13        | 4.818       | 1174          | 1175        | 1177         | rBV      | 246            | 79            | 0.01%           | 0.001%        |
| 14        | 4.838       | 1177          | 1181        | 1184         | rVV2     | 387            | 327           | 0.04%           | 0.005%        |
| 15        | 4.889       | 1193          | 1197        | 1198         | rBV      | 717            | 466           | 0.05%           | 0.007%        |
| 16        | 4.956       | 1201          | 1218        | 1244         | rBV2     | 317822         | 850970        | 100.00%         | 12.689%       |
| 17        | 5.236       | 1302          | 1305        | 1308         | rBV3     | 845            | 596           | 0.07%           | 0.009%        |
| 18        | 5.535       | 1387          | 1398        | 1428         | rBV      | 255618         | 533188        | 62.66%          | 7.950%        |
| 19        | 5.831       | 1482          | 1490        | 1509         | rVB3     | 13502          | 29933         | 3.52%           | 0.446%        |
| 20        | 5.989       | 1527          | 1539        | 1568         | rBV      | 177543         | 371031        | 43.60%          | 5.532%        |
| 21        | 6.272       | 1624          | 1627        | 1629         | rBV2     | 680            | 411           | 0.05%           | 0.006%        |
| 22        | 6.336       | 1644          | 1647        | 1649         | rBV      | 388            | 281           | 0.03%           | 0.004%        |
| 23        | 6.394       | 1662          | 1665        | 1670         | rBV      | 408            | 338           | 0.04%           | 0.005%        |
| 24        | 6.493       | 1693          | 1696        | 1699         | rBV      | 233            | 202           | 0.02%           | 0.003%        |
| 25        | 6.558       | 1709          | 1716        | 1719         | rBV2     | 640            | 552           | 0.06%           | 0.008%        |
| 26        | 6.580       | 1719          | 1723        | 1725         | rBV      | 465            | 307           | 0.04%           | 0.005%        |
| 27        | 6.599       | 1725          | 1729        | 1731         | rBV      | 430            | 311           | 0.04%           | 0.005%        |
| 28        | 6.661       | 1740          | 1748        | 1751         | rBV2     | 546            | 790           | 0.09%           | 0.012%        |
| 29        | 6.677       | 1751          | 1753        | 1756         | rVV      | 307            | 164           | 0.02%           | 0.002%        |
| 30        | 6.789       | 1785          | 1788        | 1791         | rBV      | 274            | 184           | 0.02%           | 0.003%        |
| 31        | 6.837       | 1799          | 1803        | 1810         | rVB2     | 583            | 527           | 0.06%           | 0.008%        |
| 32        | 6.915       | 1816          | 1827        | 1850         | rBV2     | 105295         | 195761        | 23.00%          | 2.919%        |
| 33        | 7.117       | 1888          | 1890        | 1894         | rVB      | 517            | 315           | 0.04%           | 0.005%        |
| 34        | 7.143       | 1894          | 1898        | 1900         | rBV2     | 540            | 470           | 0.06%           | 0.007%        |
| 35        | 7.243       | 1918          | 1929        | 1961         | rBV      | 380871         | 675078        | 79.33%          | 10.066%       |
| 36        | 7.554       | 2016          | 2026        | 2050         | rBV2     | 77275          | 140694        | 16.53%          | 2.098%        |

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Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM120123WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |         |
|----|--------|------|------|------|------|--------|--------|--------|---------|
| 37 | 7.837  | 2111 | 2114 | 2118 | rBV2 | 390    | 230    | 0.03%  | 0.003%  |
| 38 | 7.873  | 2118 | 2125 | 2134 | rBV2 | 851    | 1853   | 0.22%  | 0.028%  |
| 39 | 7.931  | 2140 | 2143 | 2147 | rBV  | 369    | 309    | 0.04%  | 0.005%  |
| 40 | 7.969  | 2152 | 2155 | 2158 | rBV2 | 407    | 323    | 0.04%  | 0.005%  |
| 41 | 8.024  | 2163 | 2172 | 2208 | rBV  | 196915 | 383740 | 45.09% | 5.722%  |
| 42 | 8.452  | 2302 | 2305 | 2308 | rBV3 | 474    | 355    | 0.04%  | 0.005%  |
| 43 | 8.525  | 2322 | 2328 | 2332 | rBV2 | 458    | 568    | 0.07%  | 0.008%  |
| 44 | 8.786  | 2398 | 2409 | 2436 | rBV  | 428636 | 700651 | 82.34% | 10.447% |
| 45 | 9.017  | 2479 | 2481 | 2482 | rBV2 | 345    | 161    | 0.02%  | 0.002%  |
| 46 | 9.262  | 2555 | 2557 | 2559 | rBV  | 360    | 194    | 0.02%  | 0.003%  |
| 47 | 9.358  | 2584 | 2587 | 2594 | rVB2 | 428    | 332    | 0.04%  | 0.005%  |
| 48 | 9.387  | 2594 | 2596 | 2600 | rVB2 | 397    | 215    | 0.03%  | 0.003%  |
| 49 | 9.432  | 2600 | 2610 | 2613 | rBV2 | 610    | 1058   | 0.12%  | 0.016%  |
| 50 | 9.564  | 2649 | 2651 | 2653 | rBV  | 297    | 155    | 0.02%  | 0.002%  |
| 51 | 9.632  | 2669 | 2672 | 2675 | rBV  | 251    | 212    | 0.02%  | 0.003%  |
| 52 | 9.683  | 2685 | 2688 | 2691 | rBV2 | 369    | 306    | 0.04%  | 0.005%  |
| 53 | 9.715  | 2696 | 2698 | 2700 | rBV  | 374    | 187    | 0.02%  | 0.003%  |
| 54 | 9.741  | 2704 | 2706 | 2707 | rBV  | 280    | 121    | 0.01%  | 0.002%  |
| 55 | 9.824  | 2728 | 2732 | 2734 | rBV2 | 356    | 320    | 0.04%  | 0.005%  |
| 56 | 9.902  | 2752 | 2756 | 2758 | rVB2 | 457    | 316    | 0.04%  | 0.005%  |
| 57 | 9.918  | 2758 | 2761 | 2763 | rBV  | 436    | 272    | 0.03%  | 0.004%  |
| 58 | 10.001 | 2784 | 2787 | 2788 | rBV  | 207    | 114    | 0.01%  | 0.002%  |
| 59 | 10.152 | 2822 | 2834 | 2858 | rBV  | 276804 | 439483 | 51.64% | 6.553%  |
| 60 | 10.284 | 2873 | 2875 | 2876 | rBV  | 251    | 128    | 0.02%  | 0.002%  |
| 61 | 10.394 | 2906 | 2909 | 2914 | rBV2 | 484    | 445    | 0.05%  | 0.007%  |
| 62 | 10.516 | 2943 | 2947 | 2951 | rBV3 | 599    | 694    | 0.08%  | 0.010%  |
| 63 | 10.564 | 2959 | 2962 | 2967 | rBV  | 427    | 420    | 0.05%  | 0.006%  |
| 64 | 10.699 | 3001 | 3004 | 3008 | rBV2 | 330    | 300    | 0.04%  | 0.004%  |
| 65 | 10.805 | 3032 | 3037 | 3041 | rBV2 | 476    | 433    | 0.05%  | 0.006%  |
| 66 | 10.853 | 3049 | 3052 | 3054 | rBV  | 541    | 388    | 0.05%  | 0.006%  |
| 67 | 10.927 | 3073 | 3075 | 3078 | rBV  | 412    | 287    | 0.03%  | 0.004%  |
| 68 | 10.976 | 3087 | 3090 | 3092 | rBV2 | 233    | 154    | 0.02%  | 0.002%  |
| 69 | 11.021 | 3100 | 3104 | 3107 | rBV2 | 489    | 390    | 0.05%  | 0.006%  |
| 70 | 11.091 | 3121 | 3126 | 3131 | rBV2 | 476    | 702    | 0.08%  | 0.010%  |
| 71 | 11.117 | 3132 | 3134 | 3136 | rBV  | 415    | 167    | 0.02%  | 0.002%  |
| 72 | 11.185 | 3144 | 3155 | 3177 | rBV  | 443910 | 695484 | 81.73% | 10.370% |
| 73 | 11.419 | 3226 | 3228 | 3230 | rBV  | 405    | 196    | 0.02%  | 0.003%  |
| 74 | 11.451 | 3234 | 3238 | 3240 | rBV2 | 342    | 261    | 0.03%  | 0.004%  |
| 75 | 11.506 | 3252 | 3255 | 3257 | rBV2 | 442    | 351    | 0.04%  | 0.005%  |
| 76 | 11.561 | 3260 | 3272 | 3292 | rVV  | 456418 | 719182 | 84.51% | 10.724% |

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Integration Parameters: LSCINT.P

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Smoothing : OFF

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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\SFAMVLM120123WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |     |     |       |        |
|-----|--------|------|------|------|------|-----|-----|-------|--------|
| 77  | 11.818 | 3349 | 3352 | 3357 | rBV2 | 469 | 492 | 0.06% | 0.007% |
| 78  | 11.873 | 3367 | 3369 | 3374 | rVB2 | 278 | 212 | 0.02% | 0.003% |
| 79  | 11.934 | 3382 | 3388 | 3391 | rBV2 | 424 | 399 | 0.05% | 0.006% |
| 80  | 11.956 | 3391 | 3395 | 3401 | rVV2 | 489 | 596 | 0.07% | 0.009% |
| 81  | 12.246 | 3482 | 3485 | 3488 | rBV  | 413 | 371 | 0.04% | 0.006% |
| 82  | 12.557 | 3572 | 3582 | 3586 | rBV2 | 557 | 927 | 0.11% | 0.014% |
| 83  | 12.625 | 3600 | 3603 | 3604 | rBV  | 326 | 171 | 0.02% | 0.003% |
| 84  | 12.651 | 3608 | 3611 | 3615 | rVV2 | 529 | 335 | 0.04% | 0.005% |
| 85  | 12.779 | 3647 | 3651 | 3653 | rBV2 | 531 | 393 | 0.05% | 0.006% |
| 86  | 12.937 | 3697 | 3700 | 3703 | rBV  | 400 | 238 | 0.03% | 0.004% |
| 87  | 12.959 | 3703 | 3707 | 3713 | rBV4 | 670 | 690 | 0.08% | 0.010% |
| 88  | 13.072 | 3740 | 3742 | 3744 | rBV  | 325 | 210 | 0.02% | 0.003% |
| 89  | 13.114 | 3753 | 3755 | 3757 | rBV  | 327 | 117 | 0.01% | 0.002% |
| 90  | 13.207 | 3781 | 3784 | 3785 | rBV2 | 625 | 337 | 0.04% | 0.005% |
| 91  | 13.271 | 3801 | 3804 | 3808 | rBV2 | 355 | 329 | 0.04% | 0.005% |
| 92  | 13.403 | 3843 | 3845 | 3848 | rVB2 | 351 | 109 | 0.01% | 0.002% |
| 93  | 13.442 | 3854 | 3857 | 3858 | rBV2 | 841 | 492 | 0.06% | 0.007% |
| 94  | 13.869 | 3988 | 3990 | 3995 | rBV  | 431 | 313 | 0.04% | 0.005% |
| 95  | 14.123 | 4065 | 4069 | 4072 | rBV3 | 703 | 495 | 0.06% | 0.007% |
| 96  | 14.159 | 4078 | 4080 | 4081 | rBV  | 314 | 78  | 0.01% | 0.001% |
| 97  | 14.207 | 4093 | 4095 | 4099 | rBV2 | 568 | 480 | 0.06% | 0.007% |
| 98  | 14.323 | 4129 | 4131 | 4135 | rVB2 | 689 | 399 | 0.05% | 0.006% |
| 99  | 14.882 | 4300 | 4305 | 4308 | rBV4 | 925 | 983 | 0.12% | 0.015% |
| 100 | 14.946 | 4323 | 4325 | 4328 | rBV2 | 898 | 689 | 0.08% | 0.010% |

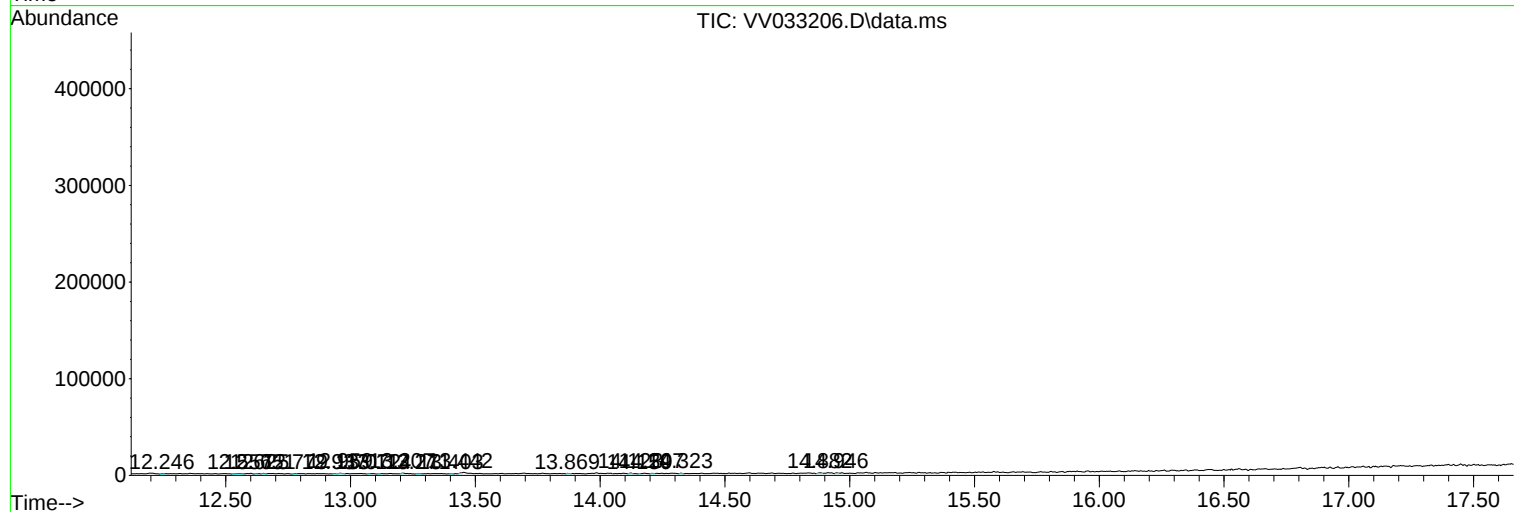
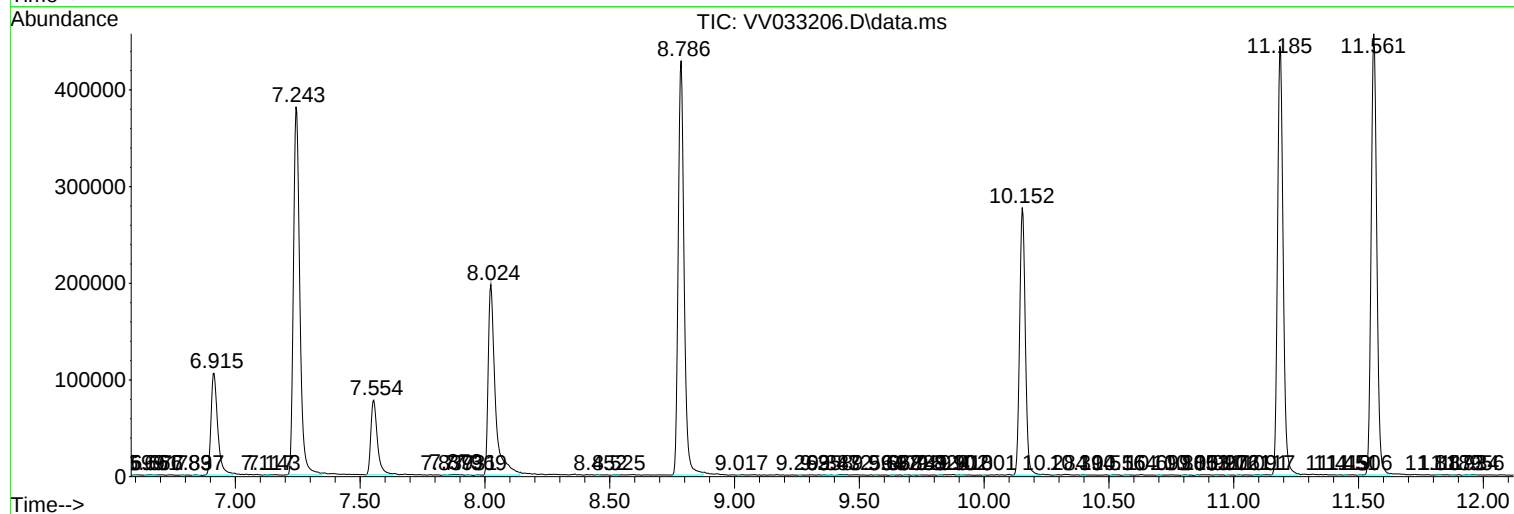
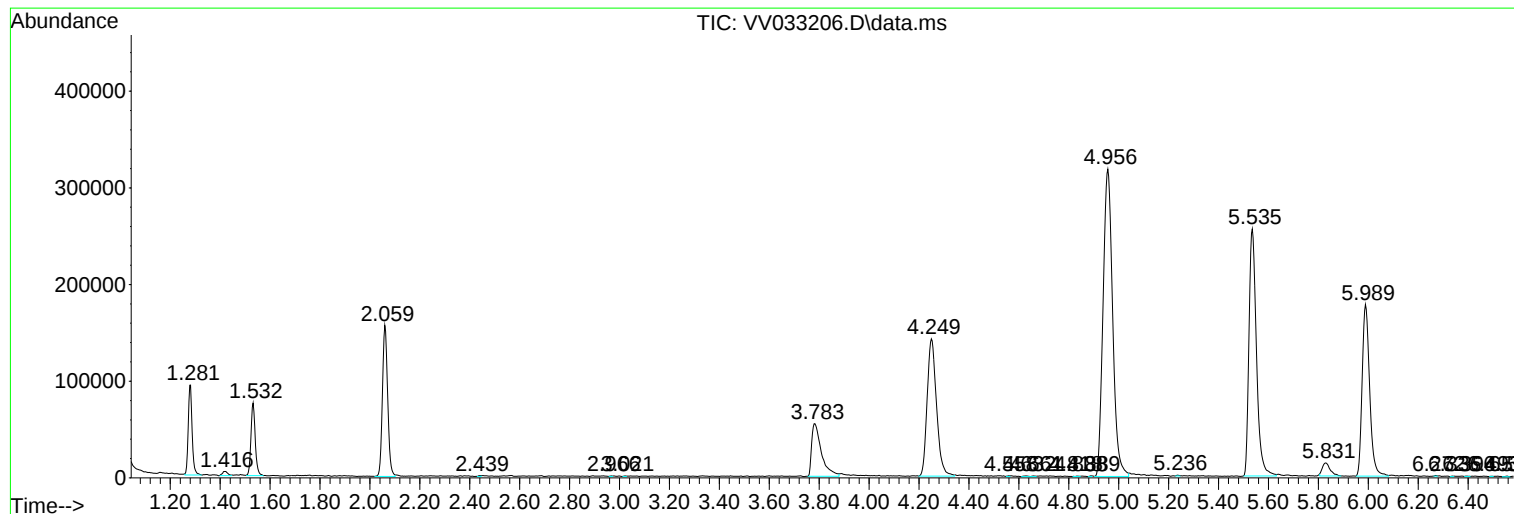
Sum of corrected areas: 6706467

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM120123WMA.M  
Quant Title : VOC Analysis

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



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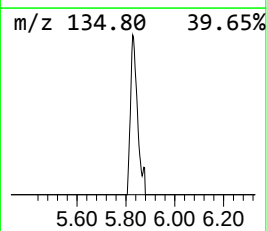
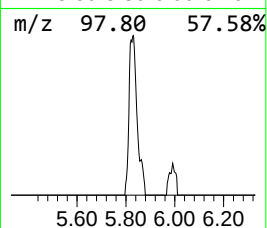
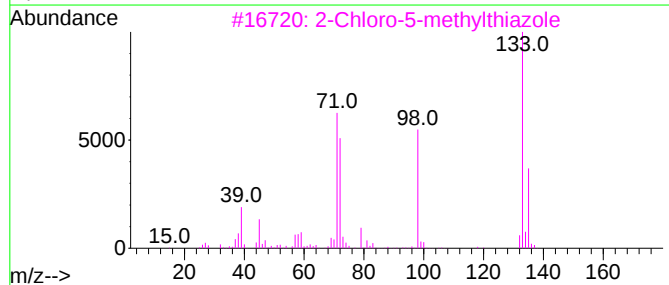
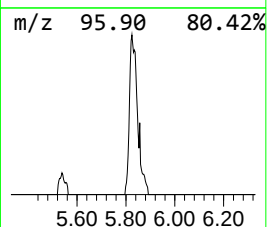
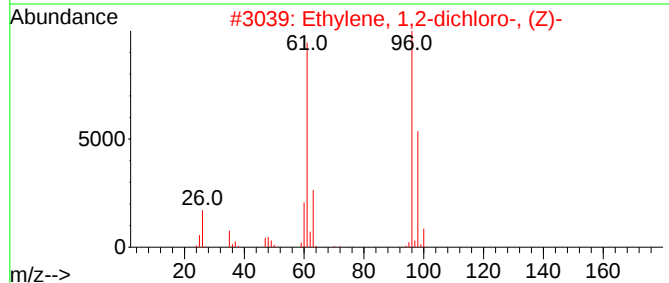
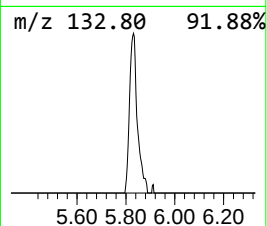
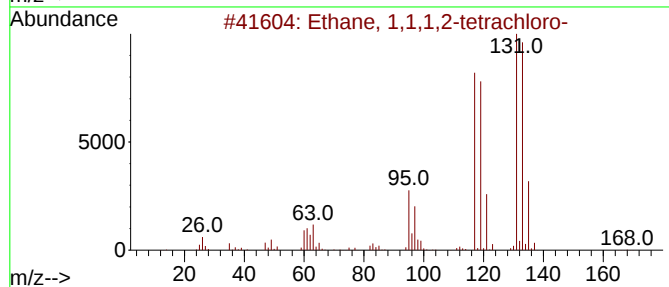
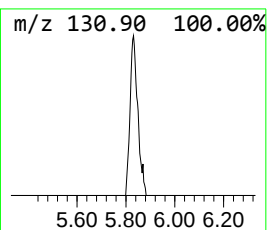
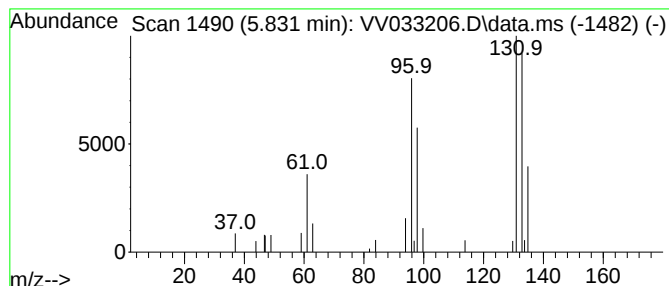
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 unknown-01 Concentration Rank 2

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 5.831 | 2.81 ug/L | 29933 | 1,4-Difluorobenzene | 5.535 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------|-----|----------|--------------|------|
| 1    |    |   | Ethane, 1,1,1,2-tetrachloro-  | 166 | C2H2Cl4  | 000630-20-6  | 37   |
| 2    |    |   | Ethylene, 1,2-dichloro-, (Z)- | 96  | C2H2Cl2  | 000156-59-2  | 27   |
| 3    |    |   | 2-Chloro-5-methylthiazole     | 133 | C4H4ClNS | 033342-65-3  | 27   |
| 4    |    |   | 2-Chloro-4-fluoropyridine     | 131 | C5H3ClFN | 1000484-44-8 | 25   |
| 5    |    |   | 4-Chloro-3-fluoropyridine     | 131 | C5H3ClFN | 002546-56-7  | 25   |



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| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                  |       |         |       |          | #                     | RT    | Resp   | Conc |
| unknown-01       | 5.831 | 2.8     | ug/L  | 29933    | 1                     | 5.535 | 533188 | 50.0 |