

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
 Data File : VW016901.D  
 Acq On : 14 Oct 2020 13:36  
 Operator : SY/VA  
 Sample : L4382-11  
 Misc : 5.53G/10ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG3X9

## 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\_W\METHOD\SOM2WLM100720S.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      | 1.995    | 12         | 15       | 21        | rVB   | 6323        | 10659      | 0.01%        | 0.004%     |
| 2      | 2.355    | 64         | 74       | 84        | rBV   | 61528       | 119309     | 0.07%        | 0.040%     |
| 3      | 2.501    | 93         | 98       | 103       | rBV2  | 3702        | 7429       | 0.00%        | 0.003%     |
| 4      | 2.891    | 155        | 162      | 178       | rVB   | 40210       | 100076     | 0.05%        | 0.034%     |
| 5      | 3.038    | 180        | 186      | 193       | rVV3  | 7078        | 15307      | 0.01%        | 0.005%     |
| 6      | 3.410    | 238        | 247      | 254       | rBV5  | 2873        | 8799       | 0.00%        | 0.003%     |
| 7      | 3.952    | 327        | 336      | 340       | rVV7  | 4011        | 12059      | 0.01%        | 0.004%     |
| 8      | 4.044    | 340        | 351      | 373       | rVV5  | 107362      | 431115     | 0.24%        | 0.146%     |
| 9      | 4.233    | 376        | 382      | 392       | rVB7  | 3218        | 9972       | 0.01%        | 0.003%     |
| 10     | 4.409    | 400        | 411      | 420       | rBV2  | 5336        | 17911      | 0.01%        | 0.006%     |
| 11     | 4.940    | 485        | 498      | 508       | rBV3  | 10712       | 48756      | 0.03%        | 0.016%     |
| 12     | 5.458    | 570        | 583      | 592       | rBV6  | 4431        | 17668      | 0.01%        | 0.006%     |
| 13     | 5.970    | 657        | 667      | 685       | rVB4  | 5231        | 22242      | 0.01%        | 0.008%     |
| 14     | 7.006    | 828        | 837      | 844       | rBV4  | 4439        | 15274      | 0.01%        | 0.005%     |
| 15     | 7.086    | 844        | 850      | 856       | rVV   | 11522       | 35144      | 0.02%        | 0.012%     |
| 16     | 7.134    | 856        | 858      | 879       | rVB4  | 13500       | 60810      | 0.03%        | 0.021%     |
| 17     | 7.665    | 932        | 945      | 962       | rBV   | 84885       | 275996     | 0.15%        | 0.093%     |
| 18     | 7.964    | 983        | 994      | 995       | rBV5  | 6649        | 14765      | 0.01%        | 0.005%     |
| 19     | 8.171    | 1022       | 1028     | 1038      | rBV5  | 3021        | 9430       | 0.01%        | 0.003%     |
| 20     | 8.311    | 1038       | 1051     | 1070      | rBV4  | 167206      | 820842     | 0.45%        | 0.277%     |
| 21     | 8.713    | 1110       | 1117     | 1131      | rVB5  | 7712        | 26651      | 0.01%        | 0.009%     |
| 22     | 8.860    | 1131       | 1141     | 1158      | rBV   | 140756      | 425039     | 0.23%        | 0.144%     |
| 23     | 9.110    | 1168       | 1182     | 1205      | rBV2  | 4889032     | 14751232   | 8.09%        | 4.984%     |
| 24     | 9.287    | 1205       | 1211     | 1243      | rVB2  | 83894       | 309941     | 0.17%        | 0.105%     |
| 25     | 9.780    | 1283       | 1292     | 1303      | rBV3  | 3149        | 12881      | 0.01%        | 0.004%     |
| 26     | 9.914    | 1306       | 1314     | 1315      | rBV6  | 3765        | 7179       | 0.00%        | 0.002%     |
| 27     | 10.049   | 1329       | 1336     | 1346      | rVB   | 46560       | 113956     | 0.06%        | 0.039%     |
| 28     | 10.347   | 1376       | 1385     | 1390      | rBV   | 90001       | 281695     | 0.15%        | 0.095%     |
| 29     | 10.591   | 1419       | 1425     | 1434      | rBV   | 25422       | 72369      | 0.04%        | 0.024%     |
| 30     | 10.872   | 1461       | 1471     | 1481      | rBV3  | 45291674    | 182371297  | 100.00%      | 61.621%    |
| 31     | 11.091   | 1504       | 1507     | 1512      | rVB2  | 46322467    | 67062660   | 36.77%       | 22.660%    |
| 32     | 11.146   | 1512       | 1516     | 1528      | rVB6  | 79612       | 268784     | 0.15%        | 0.091%     |
| 33     | 11.439   | 1560       | 1564     | 1568      | rBV2  | 68252       | 102300     | 0.06%        | 0.035%     |
| 34     | 11.536   | 1576       | 1580     | 1591      | rVB   | 87020       | 163837     | 0.09%        | 0.055%     |

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 MSVOA\_W  
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 BG3X9

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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\_W\METHOD\SOM2WLM100720S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |       |        |
|----|--------|------|------|------|------|---------|---------|-------|--------|
| 35 | 11.664 | 1595 | 1601 | 1608 | rVB  | 134390  | 237565  | 0.13% | 0.080% |
| 36 | 11.756 | 1612 | 1616 | 1620 | rBV  | 41518   | 57633   | 0.03% | 0.019% |
| 37 | 11.859 | 1626 | 1633 | 1643 | rBV2 | 699335  | 1404144 | 0.77% | 0.474% |
| 38 | 11.938 | 1643 | 1646 | 1651 | rVB  | 82339   | 127462  | 0.07% | 0.043% |
| 39 | 11.999 | 1652 | 1656 | 1657 | rBV3 | 11319   | 15459   | 0.01% | 0.005% |
| 40 | 12.073 | 1663 | 1668 | 1674 | rVB3 | 57015   | 116394  | 0.06% | 0.039% |
| 41 | 12.158 | 1674 | 1682 | 1683 | rBV4 | 175794  | 316675  | 0.17% | 0.107% |
| 42 | 12.268 | 1692 | 1700 | 1704 | rVB3 | 202919  | 432033  | 0.24% | 0.146% |
| 43 | 12.402 | 1704 | 1722 | 1729 | rBV5 | 219393  | 1088397 | 0.60% | 0.368% |
| 44 | 12.481 | 1730 | 1735 | 1737 | rVV3 | 39562   | 77150   | 0.04% | 0.026% |
| 45 | 12.518 | 1737 | 1741 | 1743 | rVV2 | 87278   | 144310  | 0.08% | 0.049% |
| 46 | 12.554 | 1744 | 1747 | 1749 | rVV2 | 136607  | 207127  | 0.11% | 0.070% |
| 47 | 12.579 | 1749 | 1751 | 1761 | rVB3 | 178536  | 389731  | 0.21% | 0.132% |
| 48 | 12.658 | 1761 | 1764 | 1768 | rVB  | 111898  | 135620  | 0.07% | 0.046% |
| 49 | 12.707 | 1768 | 1772 | 1777 | rVB4 | 105904  | 174361  | 0.10% | 0.059% |
| 50 | 12.792 | 1777 | 1786 | 1794 | rVB4 | 178190  | 579978  | 0.32% | 0.196% |
| 51 | 12.877 | 1794 | 1800 | 1803 | rBV2 | 350193  | 608079  | 0.33% | 0.205% |
| 52 | 12.938 | 1803 | 1810 | 1818 | rVB2 | 1235842 | 2302379 | 1.26% | 0.778% |
| 53 | 12.999 | 1818 | 1820 | 1826 | rVB3 | 104055  | 153757  | 0.08% | 0.052% |
| 54 | 13.115 | 1830 | 1839 | 1845 | rBV4 | 155711  | 516553  | 0.28% | 0.175% |
| 55 | 13.170 | 1845 | 1848 | 1851 | rBV  | 213648  | 319569  | 0.18% | 0.108% |
| 56 | 13.261 | 1857 | 1863 | 1867 | rBV  | 807786  | 1233363 | 0.68% | 0.417% |
| 57 | 13.304 | 1867 | 1870 | 1874 | rVB2 | 87993   | 125837  | 0.07% | 0.043% |
| 58 | 13.353 | 1874 | 1878 | 1880 | rBV4 | 50290   | 72581   | 0.04% | 0.025% |
| 59 | 13.414 | 1880 | 1888 | 1891 | rBV4 | 171579  | 373991  | 0.21% | 0.126% |
| 60 | 13.450 | 1891 | 1894 | 1898 | rVB3 | 175100  | 242005  | 0.13% | 0.082% |
| 61 | 13.493 | 1898 | 1901 | 1904 | rBV2 | 135072  | 162447  | 0.09% | 0.055% |
| 62 | 13.524 | 1904 | 1906 | 1909 | rVB2 | 87940   | 78620   | 0.04% | 0.027% |
| 63 | 13.560 | 1909 | 1912 | 1914 | rBV2 | 212620  | 301274  | 0.17% | 0.102% |
| 64 | 13.591 | 1914 | 1917 | 1922 | rVV2 | 404453  | 599980  | 0.33% | 0.203% |
| 65 | 13.719 | 1930 | 1938 | 1940 | rBV6 | 100024  | 241399  | 0.13% | 0.082% |
| 66 | 13.755 | 1940 | 1944 | 1948 | rVV2 | 375619  | 740575  | 0.41% | 0.250% |
| 67 | 13.798 | 1948 | 1951 | 1958 | rVV4 | 302562  | 642718  | 0.35% | 0.217% |
| 68 | 13.877 | 1958 | 1964 | 1970 | rVV  | 1916331 | 3003526 | 1.65% | 1.015% |
| 69 | 13.956 | 1974 | 1977 | 1980 | rVV  | 134294  | 220905  | 0.12% | 0.075% |
| 70 | 14.017 | 1983 | 1987 | 1989 | rVV  | 215159  | 359661  | 0.20% | 0.122% |
| 71 | 14.042 | 1989 | 1991 | 1996 | rVV2 | 241759  | 389325  | 0.21% | 0.132% |

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 BG3X9

## Integration Parameters: LSCINT.P

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 Start Thrs: 0.2  
 Stop Thrs : 0

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 Min Area: 0 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |         |         |       |        |
|-----|--------|------|------|------|------|---------|---------|-------|--------|
| 72  | 14.103 | 1996 | 2001 | 2005 | rVB  | 336863  | 528254  | 0.29% | 0.178% |
| 73  | 14.206 | 2013 | 2018 | 2023 | rVB3 | 204884  | 344318  | 0.19% | 0.116% |
| 74  | 14.267 | 2023 | 2028 | 2034 | rVV7 | 81505   | 166332  | 0.09% | 0.056% |
| 75  | 14.347 | 2034 | 2041 | 2045 | rVV3 | 206689  | 455227  | 0.25% | 0.154% |
| 76  | 14.395 | 2045 | 2049 | 2051 | rVV2 | 292917  | 489920  | 0.27% | 0.166% |
| 77  | 14.426 | 2051 | 2054 | 2057 | rVV2 | 343960  | 554485  | 0.30% | 0.187% |
| 78  | 14.462 | 2057 | 2060 | 2063 | rVV  | 302824  | 427817  | 0.23% | 0.145% |
| 79  | 14.499 | 2063 | 2066 | 2070 | rVV2 | 216776  | 320680  | 0.18% | 0.108% |
| 80  | 14.548 | 2071 | 2074 | 2080 | rVB3 | 79630   | 137750  | 0.08% | 0.047% |
| 81  | 14.645 | 2087 | 2090 | 2094 | rVB4 | 34272   | 43691   | 0.02% | 0.015% |
| 82  | 14.694 | 2094 | 2098 | 2099 | rBV2 | 76026   | 100117  | 0.05% | 0.034% |
| 83  | 14.725 | 2099 | 2103 | 2109 | rVB  | 1022518 | 1391241 | 0.76% | 0.470% |
| 84  | 14.798 | 2109 | 2115 | 2119 | rBV3 | 277914  | 594545  | 0.33% | 0.201% |
| 85  | 14.840 | 2120 | 2122 | 2130 | rVB3 | 171394  | 298260  | 0.16% | 0.101% |
| 86  | 15.017 | 2148 | 2151 | 2154 | rBV4 | 15305   | 21413   | 0.01% | 0.007% |
| 87  | 15.066 | 2155 | 2159 | 2166 | rVB3 | 48483   | 86805   | 0.05% | 0.029% |
| 88  | 15.163 | 2169 | 2175 | 2179 | rVV4 | 93589   | 227684  | 0.12% | 0.077% |
| 89  | 15.212 | 2179 | 2183 | 2186 | rVV2 | 91528   | 160675  | 0.09% | 0.054% |
| 90  | 15.249 | 2186 | 2189 | 2196 | rVB3 | 142968  | 275437  | 0.15% | 0.093% |
| 91  | 15.322 | 2196 | 2201 | 2205 | rBV  | 210265  | 354638  | 0.19% | 0.120% |
| 92  | 15.365 | 2205 | 2208 | 2218 | rVB  | 116079  | 247079  | 0.14% | 0.083% |
| 93  | 15.554 | 2233 | 2239 | 2248 | rVB  | 778292  | 1210802 | 0.66% | 0.409% |
| 94  | 15.663 | 2248 | 2257 | 2262 | rBV6 | 59623   | 184050  | 0.10% | 0.062% |
| 95  | 16.005 | 2309 | 2313 | 2316 | rBV2 | 40385   | 71423   | 0.04% | 0.024% |
| 96  | 16.090 | 2323 | 2327 | 2331 | rBV3 | 51664   | 85904   | 0.05% | 0.029% |
| 97  | 16.139 | 2331 | 2335 | 2344 | rVV2 | 60976   | 131702  | 0.07% | 0.045% |
| 98  | 16.218 | 2344 | 2348 | 2354 | rVV2 | 72982   | 132543  | 0.07% | 0.045% |
| 99  | 16.285 | 2354 | 2359 | 2368 | rVB  | 69229   | 143120  | 0.08% | 0.048% |
| 100 | 16.499 | 2387 | 2394 | 2406 | rVB  | 286626  | 554795  | 0.30% | 0.187% |

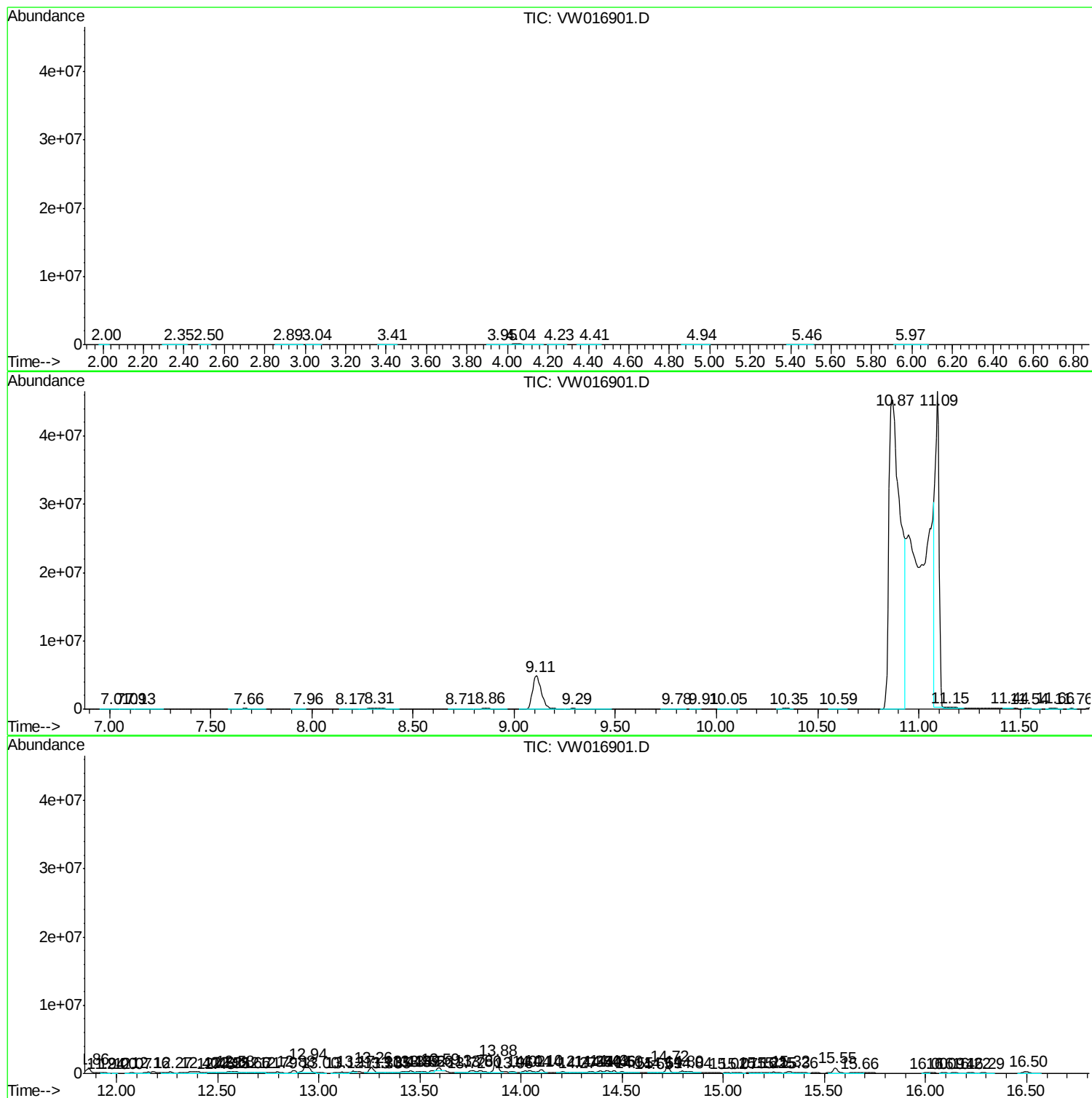
Sum of corrected areas: 295956674

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

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



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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

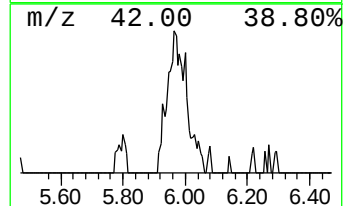
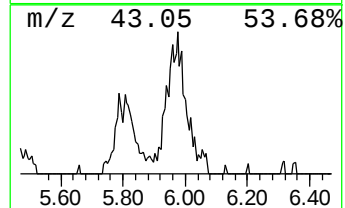
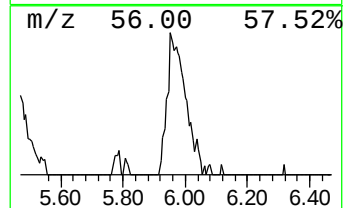
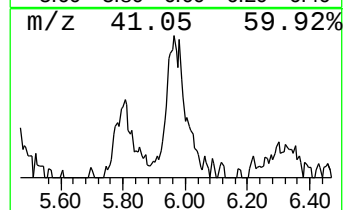
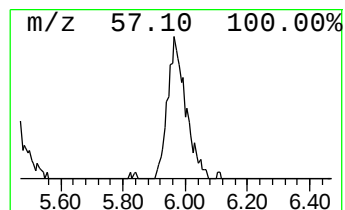
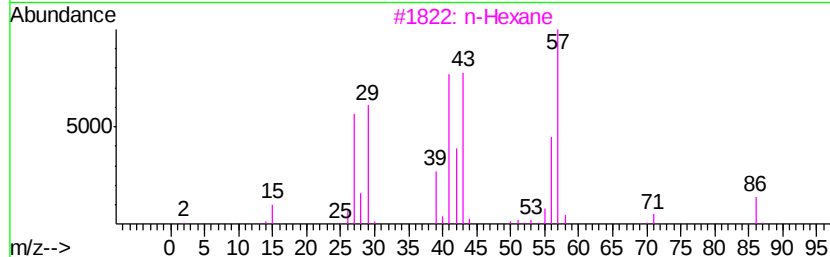
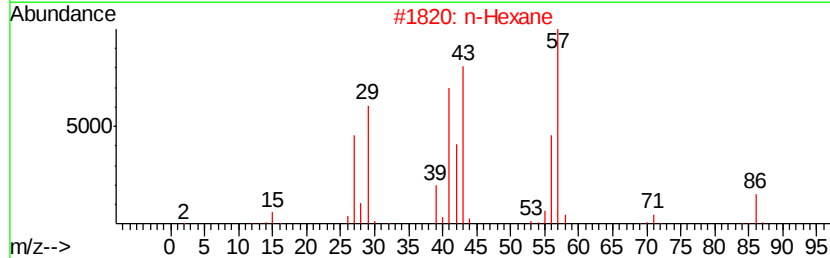
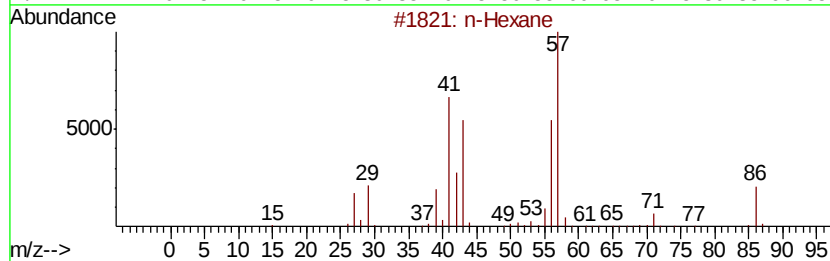
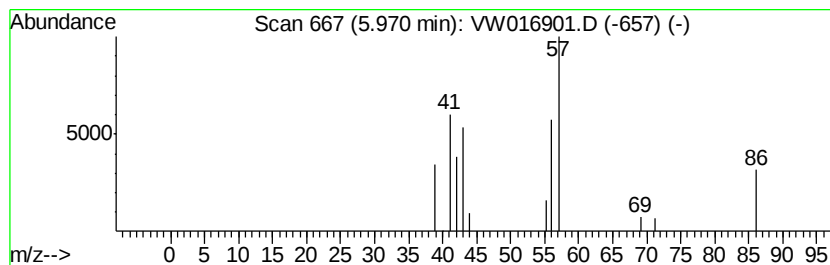
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 60

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 5.97 | 1.31 ug/L | 22242 | 1,4-Difluorobenzene | 8.86 |

| Hit# | of | Tentative ID    | MW | MolForm | CAS#        | Qual |
|------|----|-----------------|----|---------|-------------|------|
| 1    | 5  | n-Hexane        | 86 | C6H14   | 000110-54-3 | 59   |
| 2    |    | n-Hexane        | 86 | C6H14   | 000110-54-3 | 42   |
| 3    |    | n-Hexane        | 86 | C6H14   | 000110-54-3 | 40   |
| 4    |    | 1-Butanol       | 74 | C4H10O  | 000071-36-3 | 33   |
| 5    |    | Tetrahydropyran | 86 | C5H10O  | 000142-68-7 | 25   |



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 Quant Title : VOC Analysis

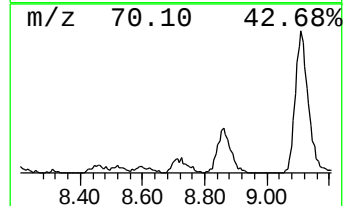
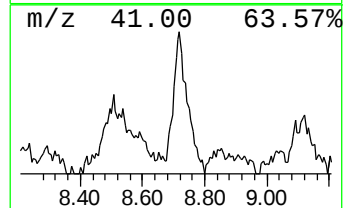
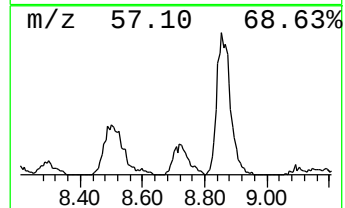
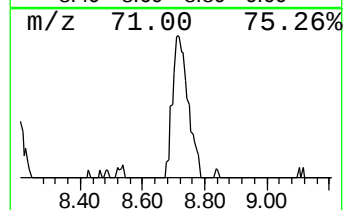
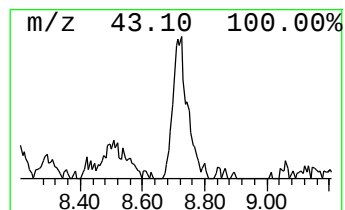
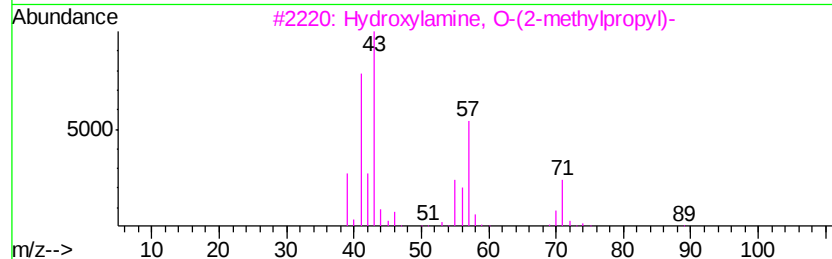
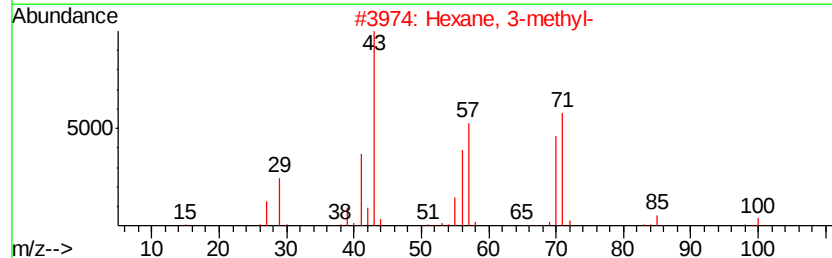
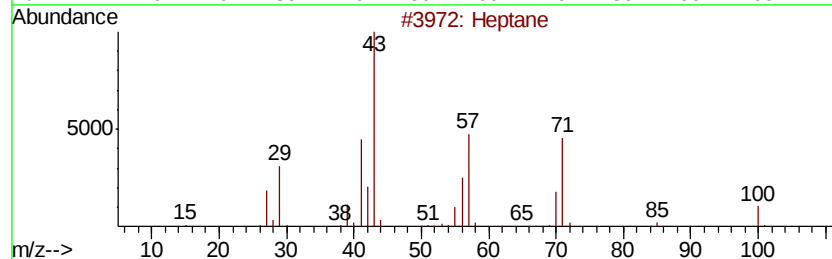
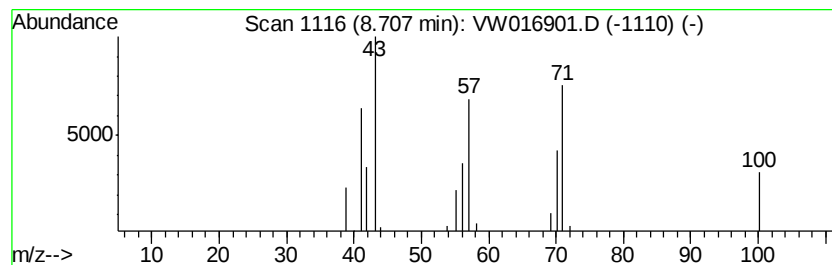
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 59

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 8.71 | 1.57 ug/L | 26651 | 1,4-Difluorobenzene | 8.86 |

| Hit# of | 5                                  | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------------------------------|--------------|-----|---------|-------------|------|
| 1       | Heptane                            |              | 100 | C7H16   | 000142-82-5 | 53   |
| 2       | Hexane, 3-methyl-                  |              | 100 | C7H16   | 000589-34-4 | 53   |
| 3       | Hydroxylamine, O-(2-methylpropyl)- |              | 89  | C4H11NO | 005618-62-2 | 47   |
| 4       | Heptane                            |              | 100 | C7H16   | 000142-82-5 | 40   |
| 5       | Decane, 2,6,7-trimethyl-           |              | 184 | C13H28  | 062108-25-2 | 40   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

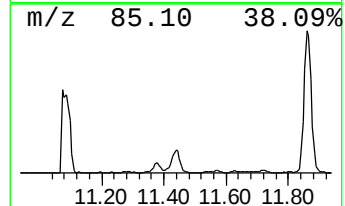
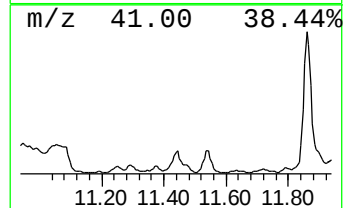
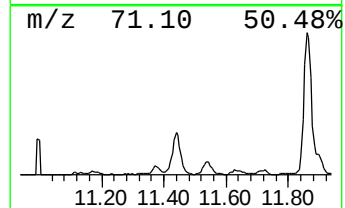
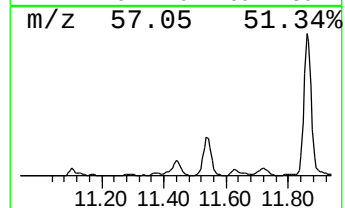
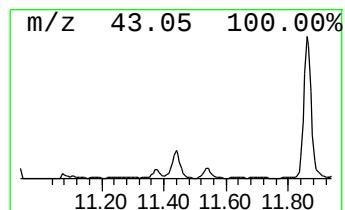
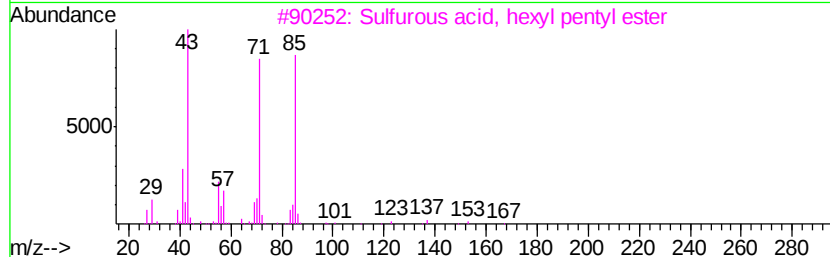
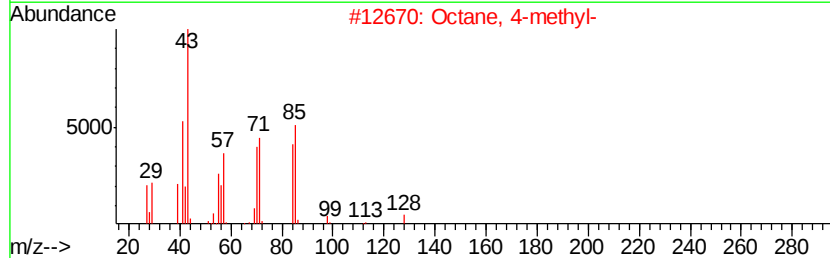
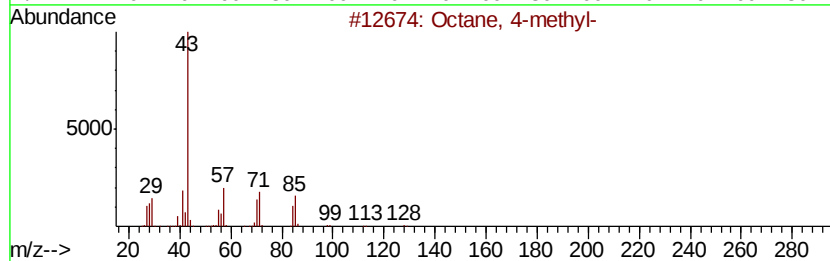
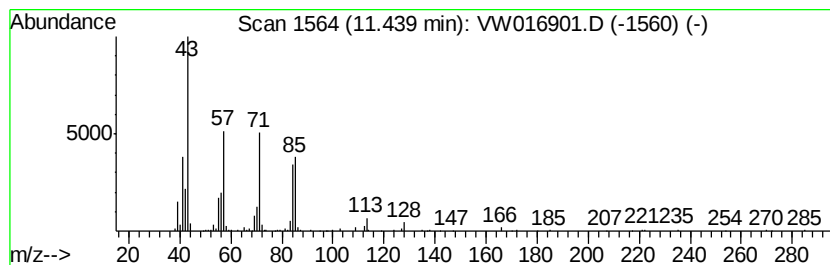
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MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 48

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.       |              |      |
|---------|------------|-------------------------------------|------------------|------------|--------------|------|
| 11.44   | 10.77 ug/L | 102300                              | Chlorobenzene-d5 | 11.66      |              |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm    | CAS#         | Qual |
| 1       |            | Octane, 4-methyl-                   | 128              | C9H20      | 002216-34-4  | 59   |
| 2       |            | Octane, 4-methyl-                   | 128              | C9H20      | 002216-34-4  | 58   |
| 3       |            | Sulfurous acid, hexyl pentyl ester  | 236              | C11H24O3S  | 1000309-14-1 | 53   |
| 4       |            | Heptane, 2,3-dimethyl-              | 128              | C9H20      | 003074-71-3  | 53   |
| 5       |            | Trichloroacetic acid, 4-methylpe... | 246              | C8H13Cl3O2 | 1000282-35-2 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

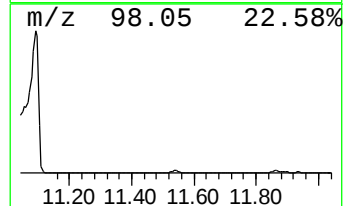
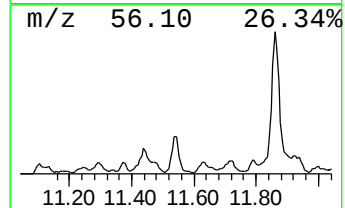
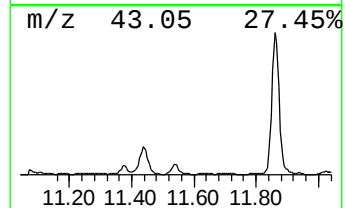
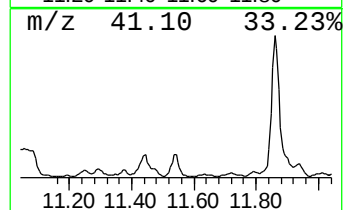
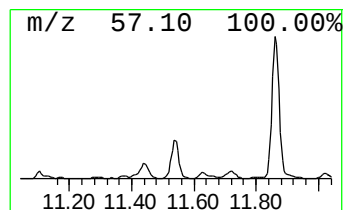
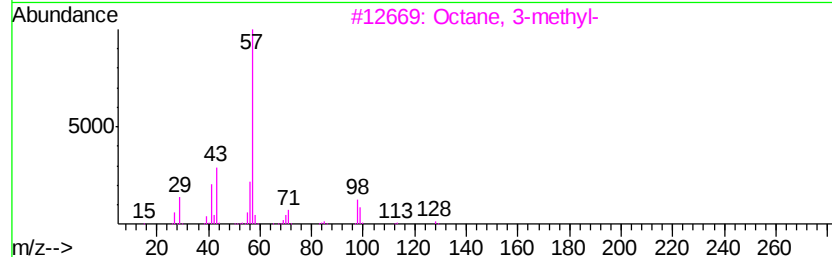
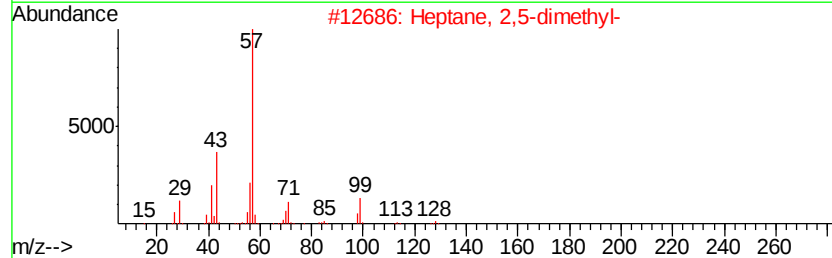
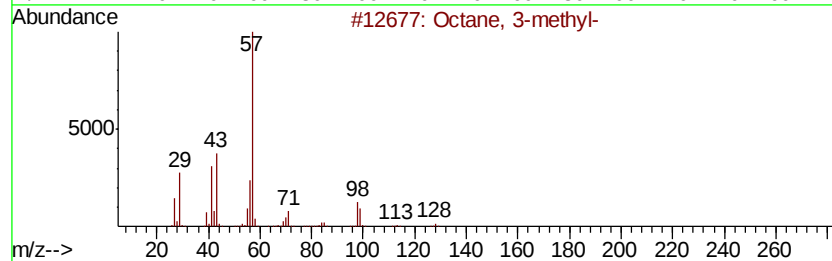
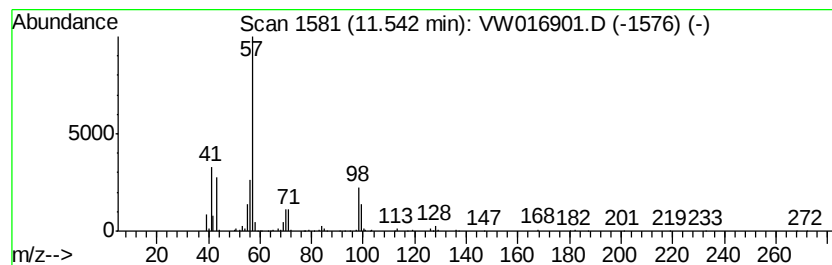
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 37

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 11.54 | 17.24 ug/L | 163837 | Chlorobenzene-d5 | 11.66 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Octane, 3-methyl-      | 128 | C9H20   | 002216-33-3 | 91   |
| 2    |    | Heptane, 2,5-dimethyl- | 128 | C9H20   | 002216-30-0 | 64   |
| 3    |    | Octane, 3-methyl-      | 128 | C9H20   | 002216-33-3 | 59   |
| 4    |    | Undecane, 6-methyl-    | 170 | C12H26  | 017302-33-9 | 59   |
| 5    |    | Heptane, 2,5-dimethyl- | 128 | C9H20   | 002216-30-0 | 58   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

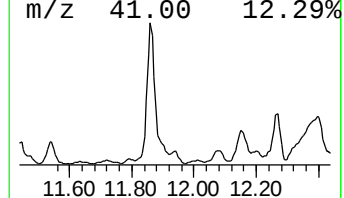
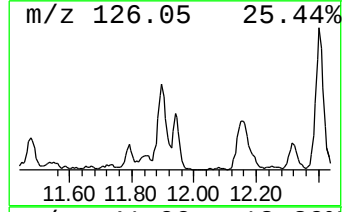
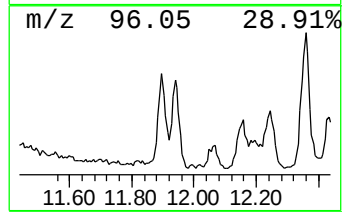
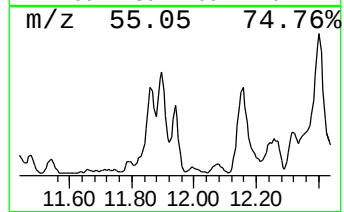
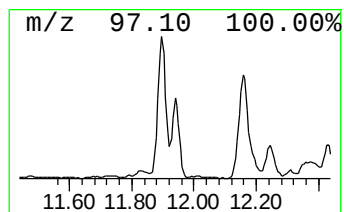
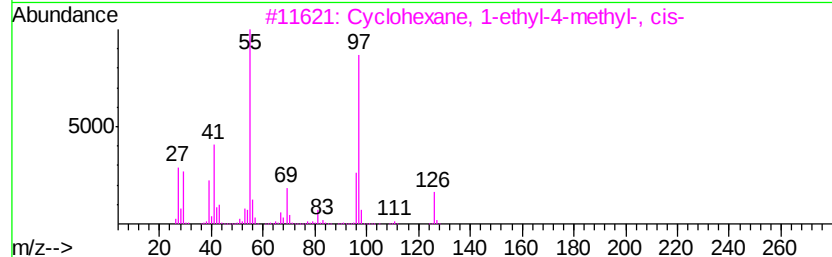
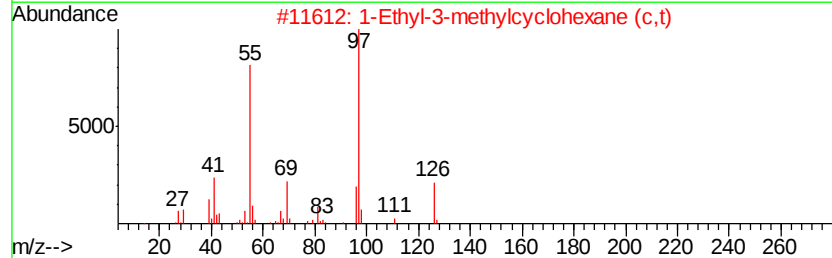
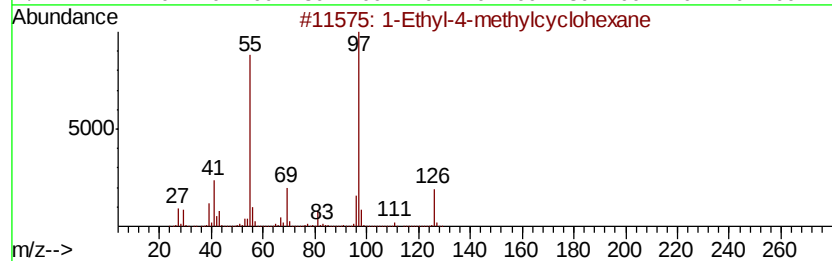
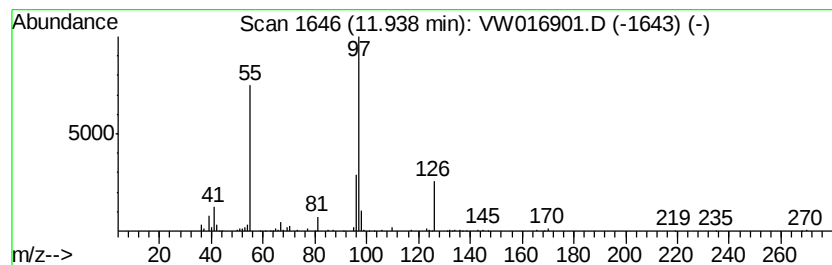
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 40

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 11.94 | 13.41 ug/L | 127462 | Chlorobenzene-d5 | 11.66 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18   | 003728-56-1 | 78   |
| 2    |    | 1-Ethyl-3-methylcyclohexane (c,t)   | 126 | C9H18   | 003728-55-0 | 72   |
| 3    |    | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 004926-78-7 | 64   |
| 4    |    | Cyclohexane, 1-methyl-2-pentyl-     | 168 | C12H24  | 054411-01-7 | 64   |
| 5    |    | cis-1-Ethyl-3-methyl-cyclohexane    | 126 | C9H18   | 019489-10-2 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

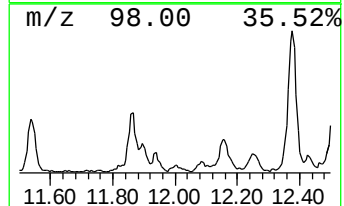
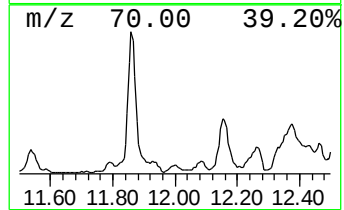
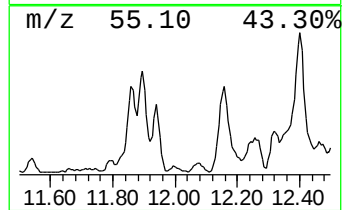
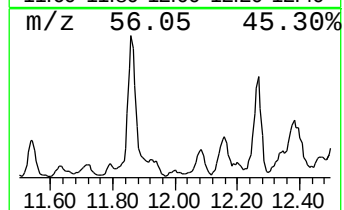
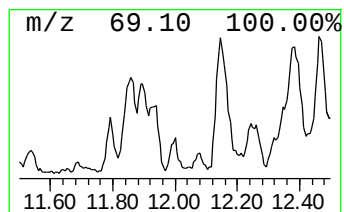
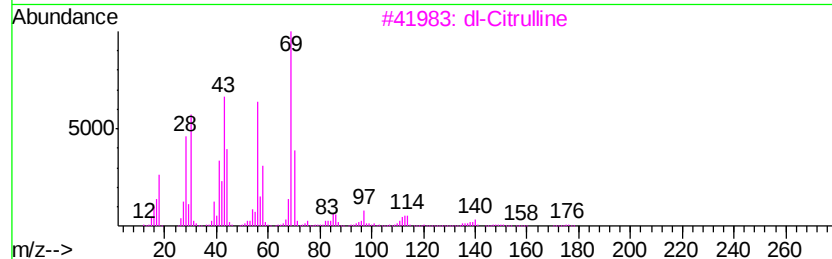
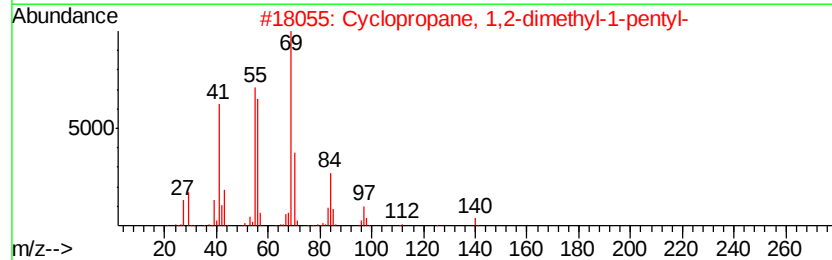
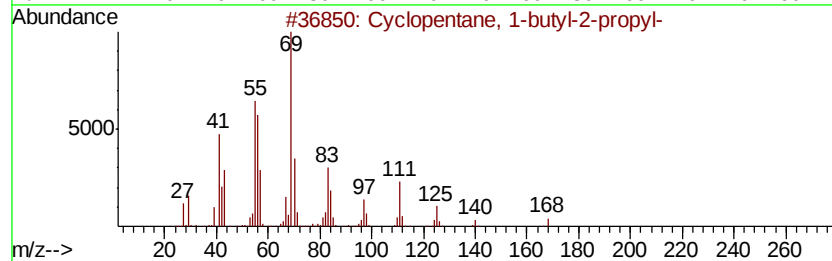
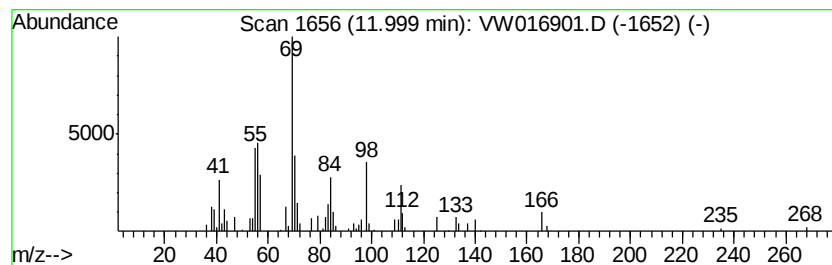
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 (DEL) Alkane: Cyclic12.00 Concentration Rank 58

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 12.00 | 1.63 ug/L | 15459 | Chlorobenzene-d5 | 11.66 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Cyclopentane, 1-butyl-2-propyl-     | 168 | C12H24    | 062199-50-2 | 72   |
| 2    |    | Cyclopropane, 1,2-dimethyl-1-pen... | 140 | C10H20    | 062238-04-4 | 64   |
| 3    |    | dl-Citrulline                       | 175 | C6H13N3O3 | 000627-77-0 | 53   |
| 4    |    | 2-Undecene, 4-methyl-               | 168 | C12H24    | 091695-32-8 | 49   |
| 5    |    | 1,1,4-Trimethylcyclohexane          | 126 | C9H18     | 007094-27-1 | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

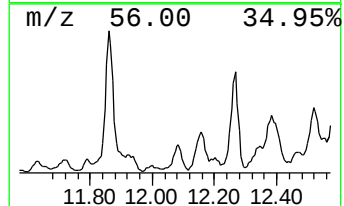
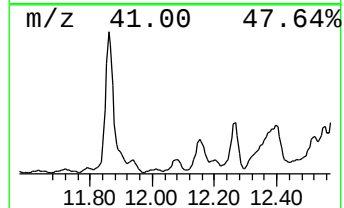
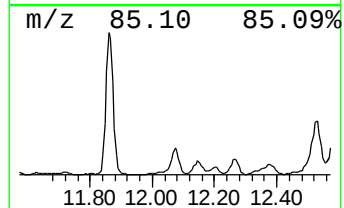
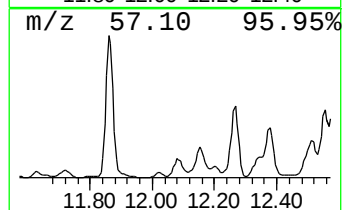
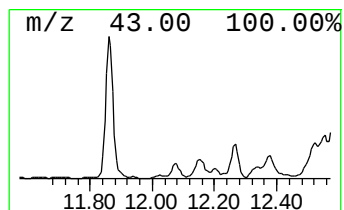
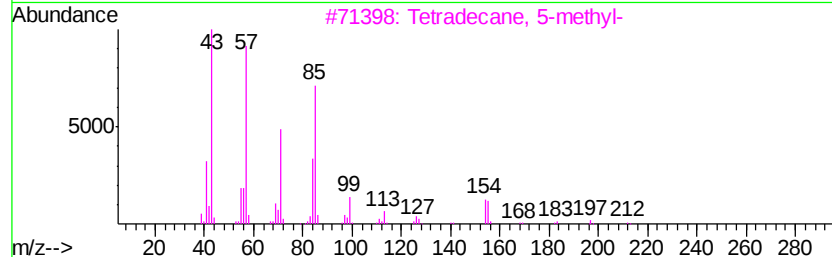
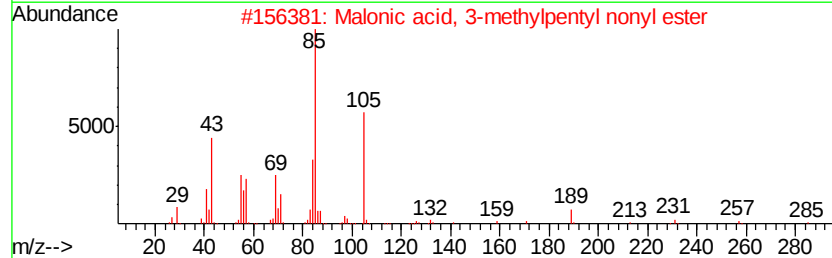
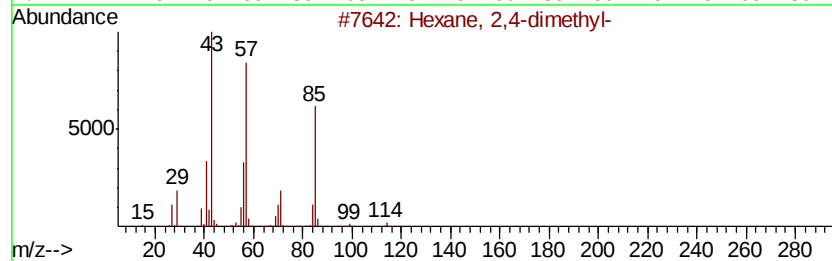
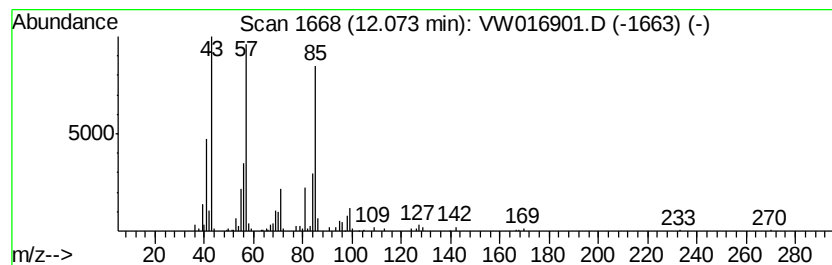
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 43

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 12.07 | 12.25 ug/L | 116394 | Chlorobenzene-d5 | 11.66 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Hexane, 2,4-dimethyl-               | 114 | C8H18    | 000589-43-5  | 64   |
| 2    |    | Malonic acid, 3-methylpentyl non... | 314 | C18H34O4 | 1000348-28-3 | 64   |
| 3    |    | Tetradecane, 5-methyl-              | 212 | C15H32   | 025117-32-2  | 59   |
| 4    |    | Ether, heptyl hexyl                 | 200 | C13H28O  | 007289-40-9  | 59   |
| 5    |    | Decane, 3-ethyl-3-methyl-           | 184 | C13H28   | 017312-66-2  | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW01520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

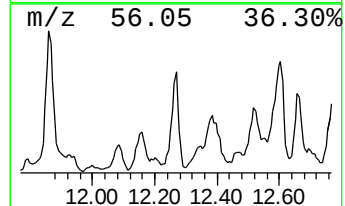
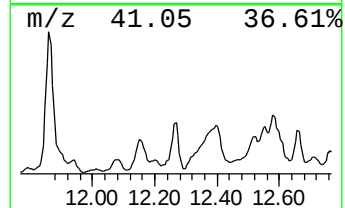
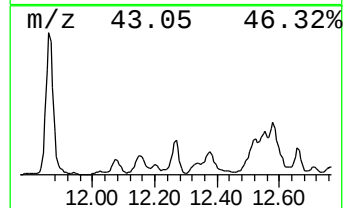
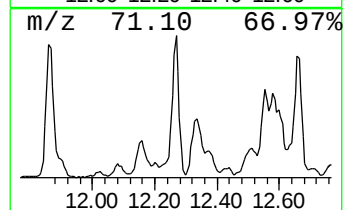
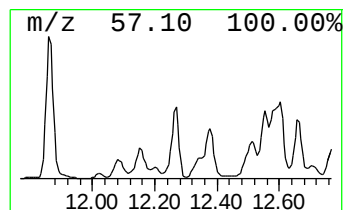
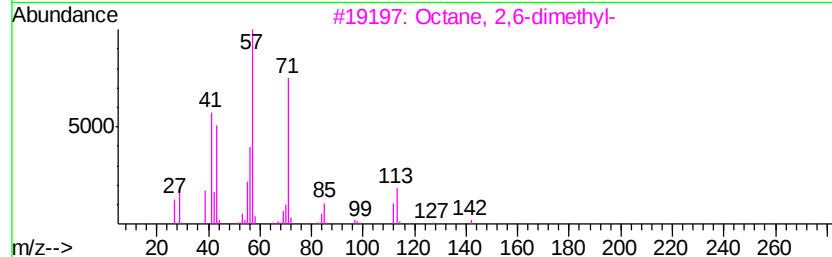
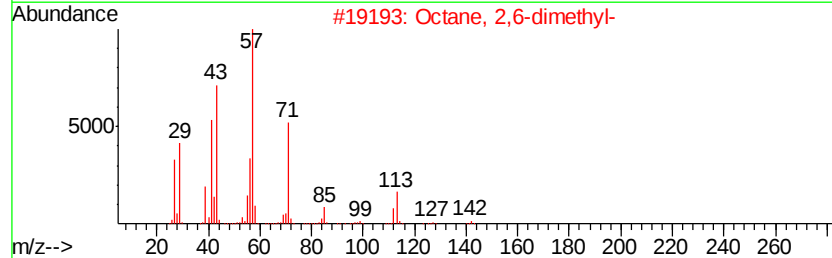
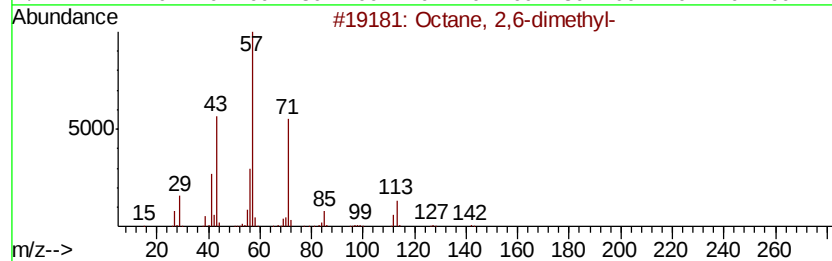
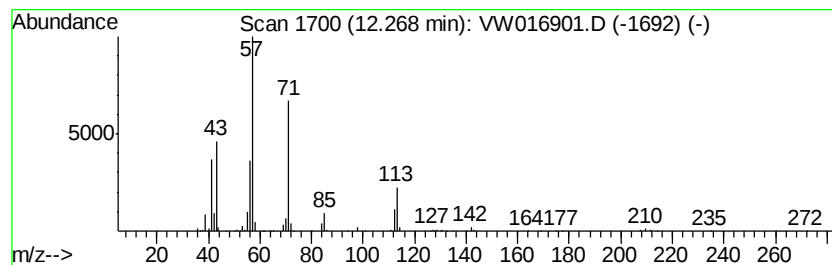
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 14

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 12.27 | 45.46 ug/L | 432033 | Chlorobenzene-d5 | 11.66 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 91   |
| 2    |    | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 91   |
| 3    |    | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 91   |
| 4    |    | Octane, 3,6-dimethyl- | 142 | C10H22  | 015869-94-0 | 90   |
| 5    |    | Nonane, 3-methyl-     | 142 | C10H22  | 005911-04-6 | 87   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

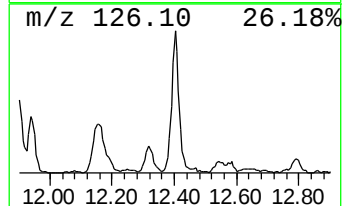
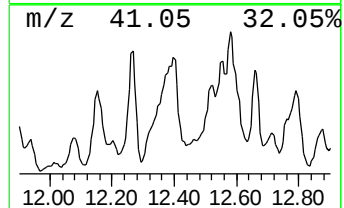
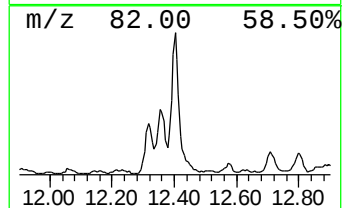
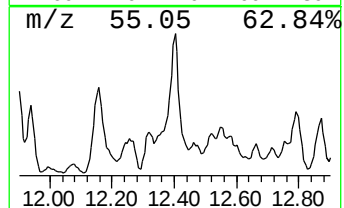
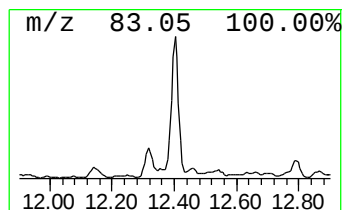
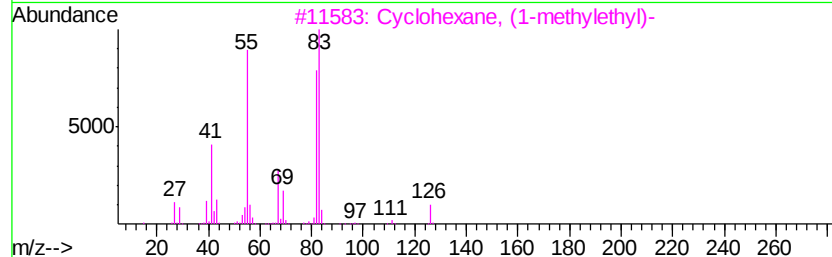
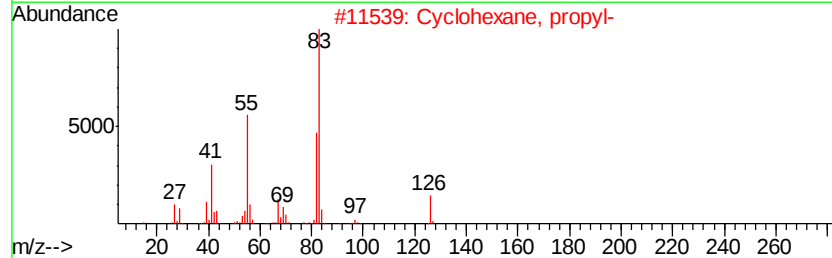
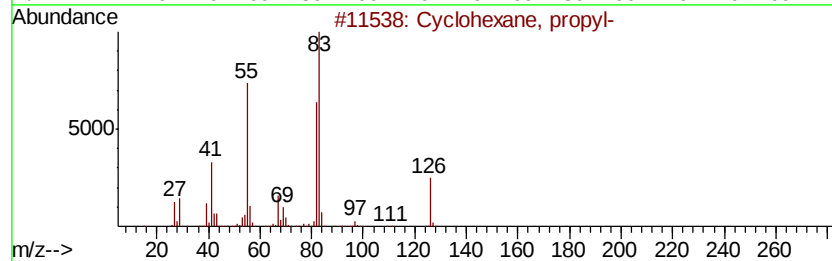
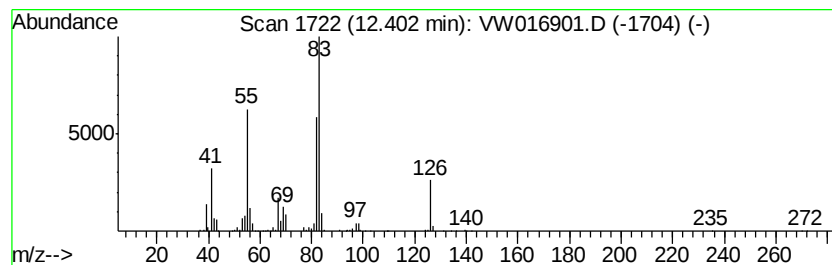
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 (DEL) Alkane: Cyclic12.40 Concentration Rank 4

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 12.40 | 114.54 ug/L | 1088400 | Chlorobenzene-d5 | 11.66 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, propyl-          | 126 | C9H18   | 001678-92-8 | 97   |
| 2    |    | Cyclohexane, propyl-          | 126 | C9H18   | 001678-92-8 | 94   |
| 3    |    | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 91   |
| 4    |    | Cyclohexane, propyl-          | 126 | C9H18   | 001678-92-8 | 91   |
| 5    |    | Cyclohexane, propyl-          | 126 | C9H18   | 001678-92-8 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

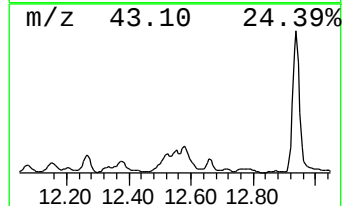
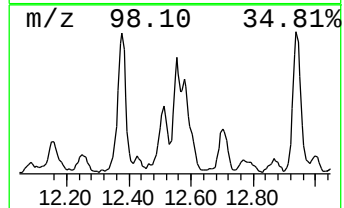
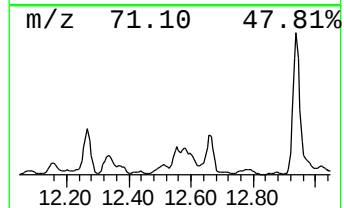
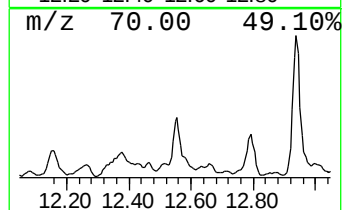
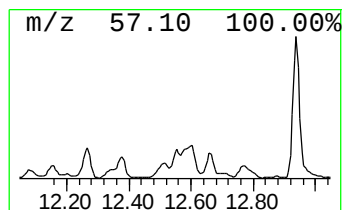
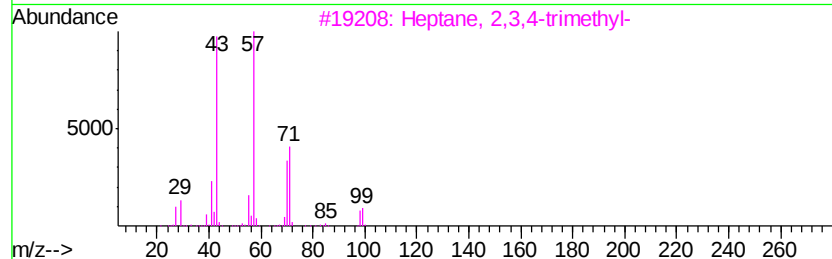
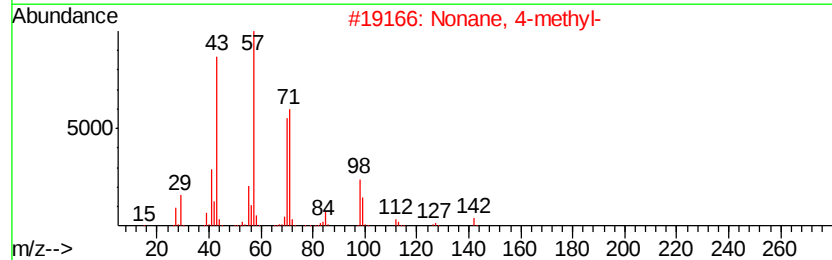
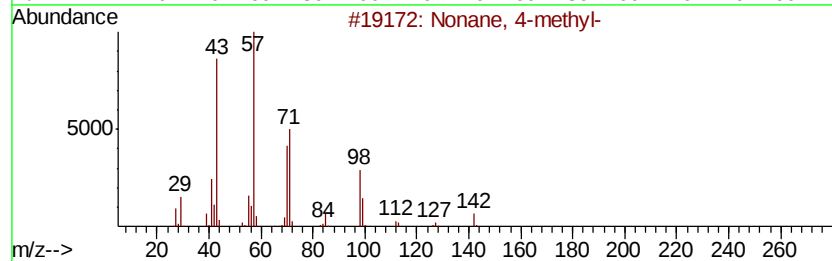
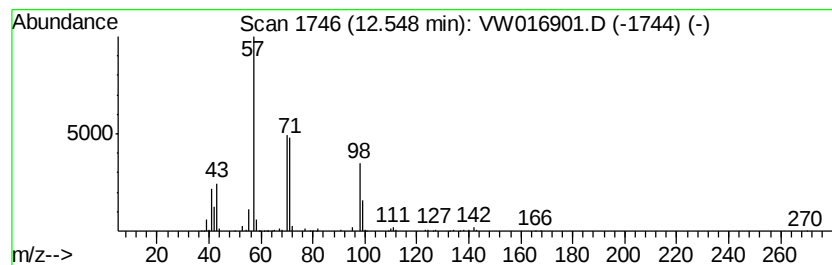
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 31

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 12.55 | 21.80 ug/L | 207127 | Chlorobenzene-d5 | 11.66 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Nonane, 4-methyl-             | 142 | C10H22  | 017301-94-9 | 72   |
| 2    |    | Nonane, 4-methyl-             | 142 | C10H22  | 017301-94-9 | 64   |
| 3    |    | Heptane, 2,3,4-trimethyl-     | 142 | C10H22  | 052896-95-4 | 64   |
| 4    |    | Pentane, 2,2,3,3-tetramethyl- | 128 | C9H20   | 007154-79-2 | 59   |
| 5    |    | Octane, 3,5-dimethyl-         | 142 | C10H22  | 015869-93-9 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW01520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

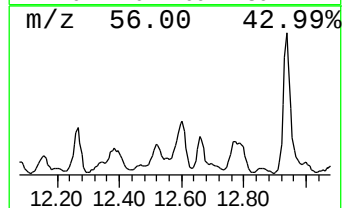
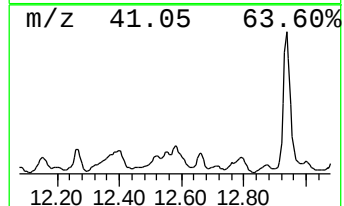
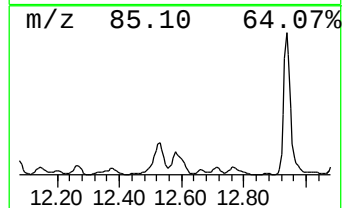
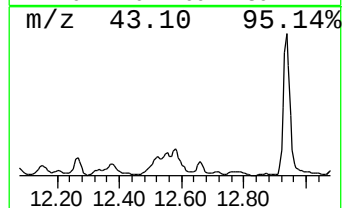
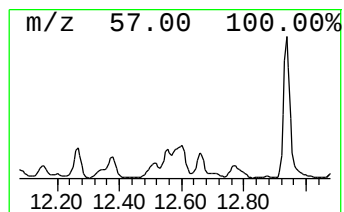
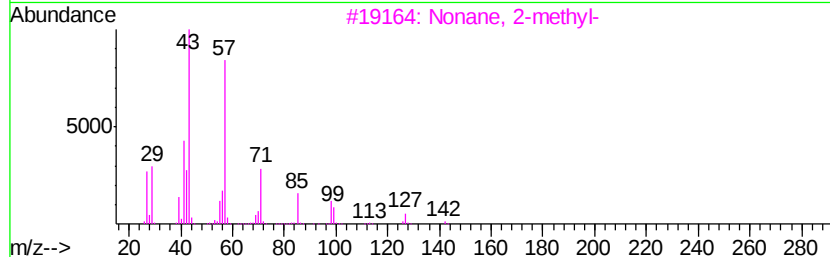
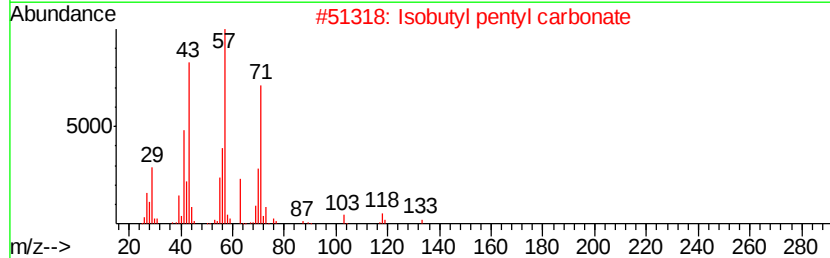
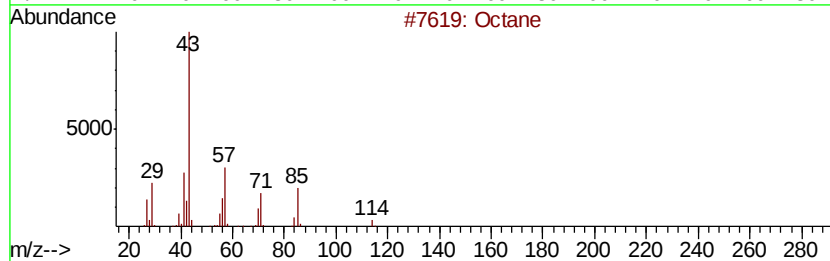
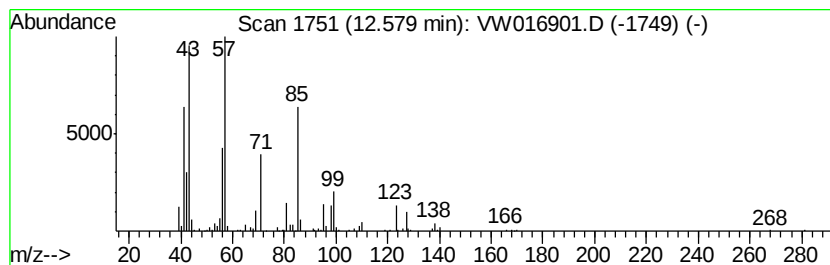
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 17

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 12.58 | 41.01 ug/L | 389731 | Chlorobenzene-d5 | 11.66 |

| Hit# | of | Tentative ID              | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------|-----|----------|-------------|------|
| 1    | 5  | Octane                    | 114 | C8H18    | 000111-65-9 | 53   |
| 2    |    | Isobutyl pentyl carbonate | 188 | C10H20O3 | 178442-32-5 | 43   |
| 3    |    | Nonane, 2-methyl-         | 142 | C10H22   | 000871-83-0 | 43   |
| 4    |    | Hexane, 2,4-dimethyl-     | 114 | C8H18    | 000589-43-5 | 43   |
| 5    |    | Undecane, 4,4-dimethyl-   | 184 | C13H28   | 017312-68-4 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW016901.D  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

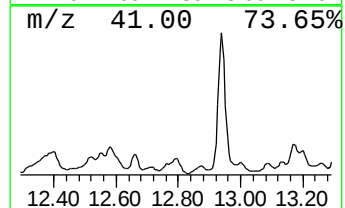
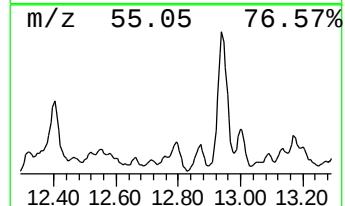
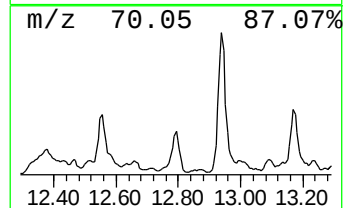
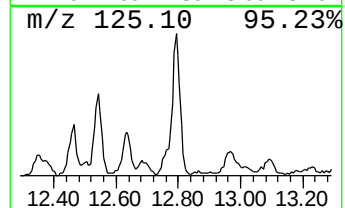
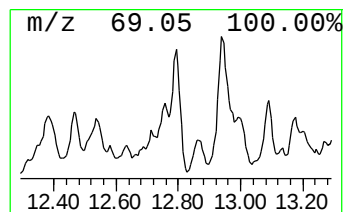
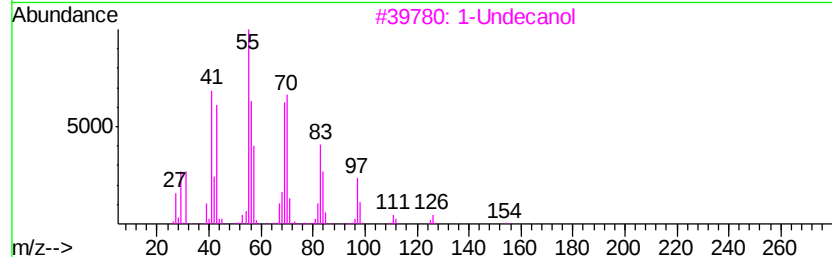
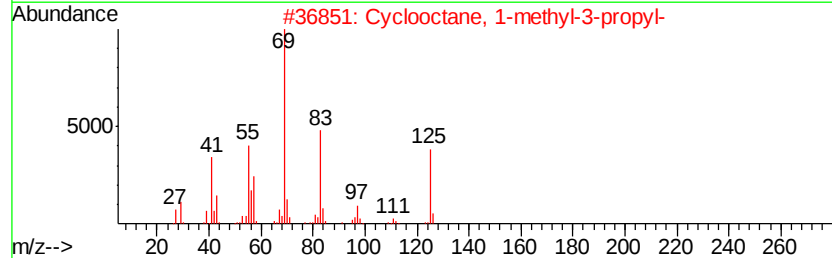
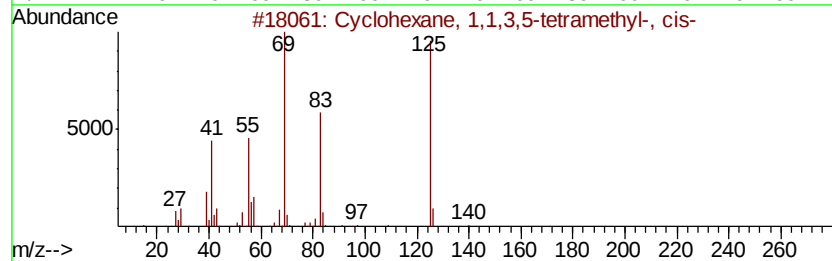
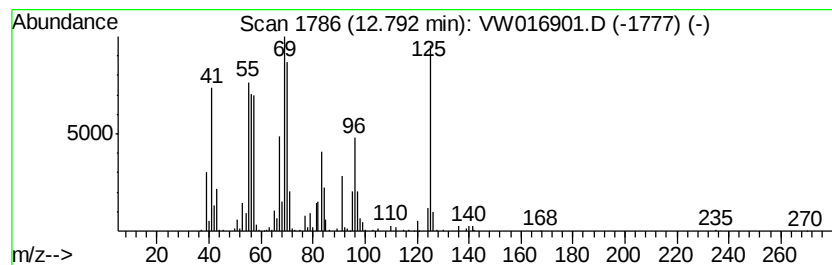
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 (DEL) Alkane: Cyclic12.79 Concentration Rank 11

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.79 | 48.13 ug/L | 579978 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1,1,3,5-tetramethyl... | 140 | C10H20  | 050876-32-9 | 38   |
| 2    |    | Cyclooctane, 1-methyl-3-propyl-     | 168 | C12H24  | 255885-37-1 | 35   |
| 3    |    | 1-Undecanol                         | 172 | C11H24O | 000112-42-5 | 30   |
| 4    |    | 1.alpha.,2.beta.,3.alpha.,4.beta... | 126 | C9H18   | 002532-67-4 | 30   |
| 5    |    | 4-Undecene, (E)-                    | 154 | C11H22  | 000693-62-9 | 27   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

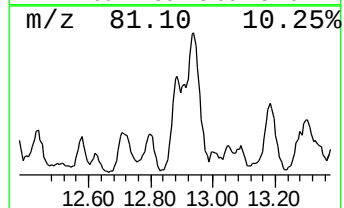
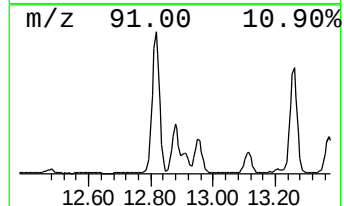
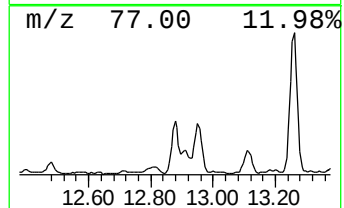
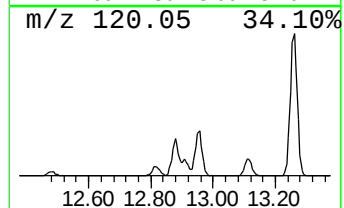
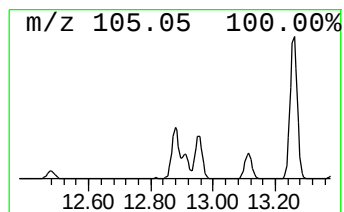
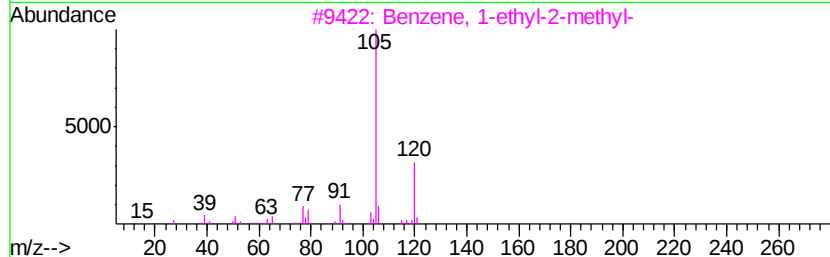
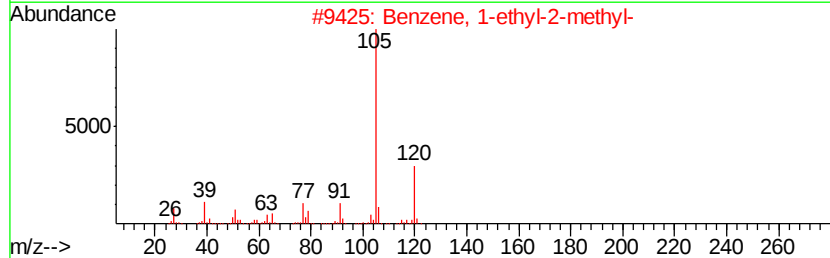
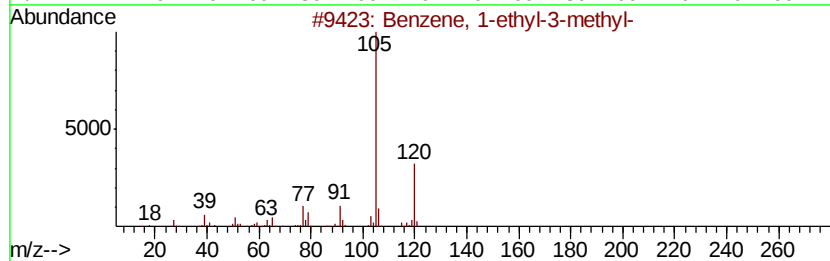
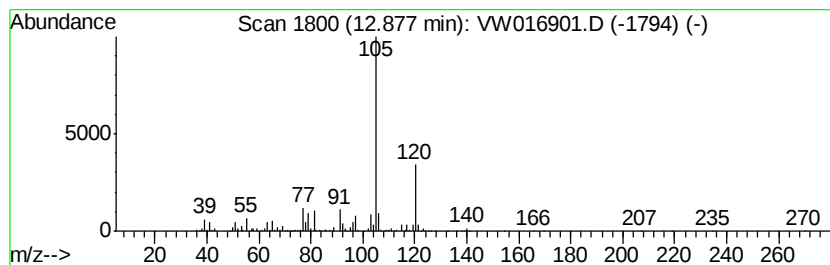
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

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

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Peak Number 16 Benzene, 1-ethyl-3-methyl- Concentration Rank 9

| R.T.    | EstConc                    | Area         | Relative to ISTD       | R.T.      |
|---------|----------------------------|--------------|------------------------|-----------|
| 12.88   | 50.46 ug/L                 | 608079       | 1,4-Dichlorobenzene-d4 | 13.57     |
| Hit# of | 5                          | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Benzene, 1-ethyl-3-methyl- | 120 C9H12    | 000620-14-4            | 95        |
| 2       | Benzene, 1-ethyl-2-methyl- | 120 C9H12    | 000611-14-3            | 94        |
| 3       | Benzene, 1-ethyl-2-methyl- | 120 C9H12    | 000611-14-3            | 94        |
| 4       | Benzene, 1-ethyl-3-methyl- | 120 C9H12    | 000620-14-4            | 93        |
| 5       | Benzene, 1-ethyl-4-methyl- | 120 C9H12    | 000622-96-8            | 76        |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

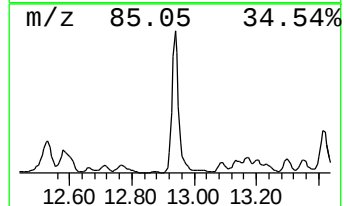
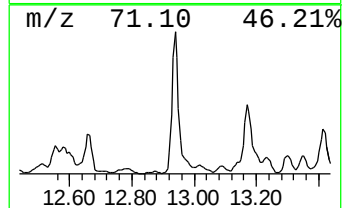
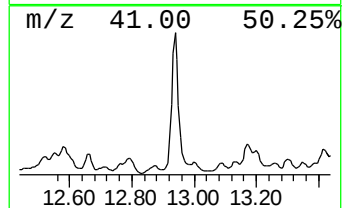
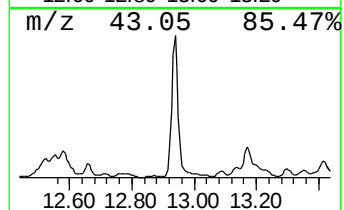
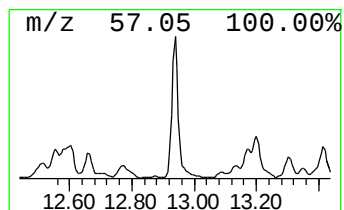
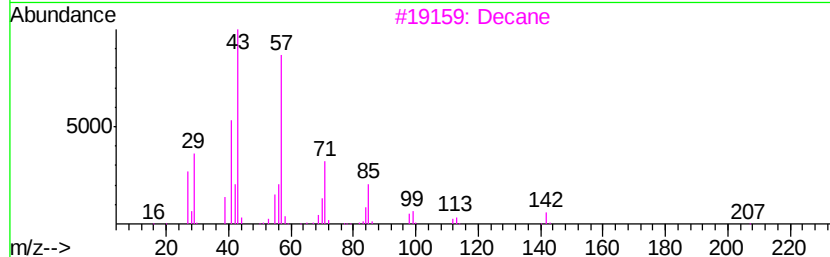
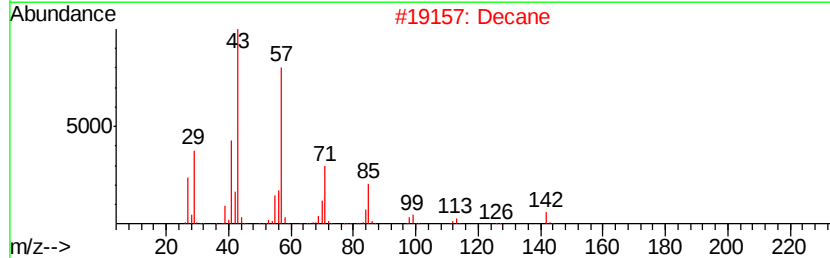
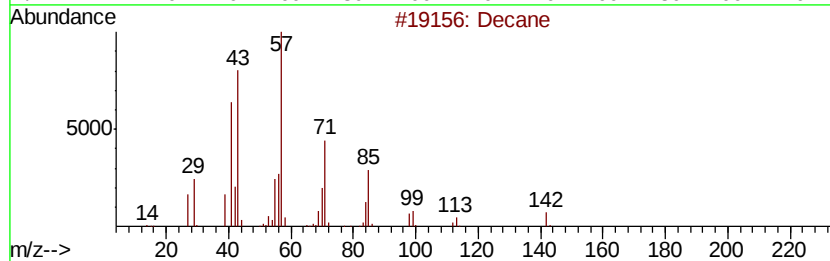
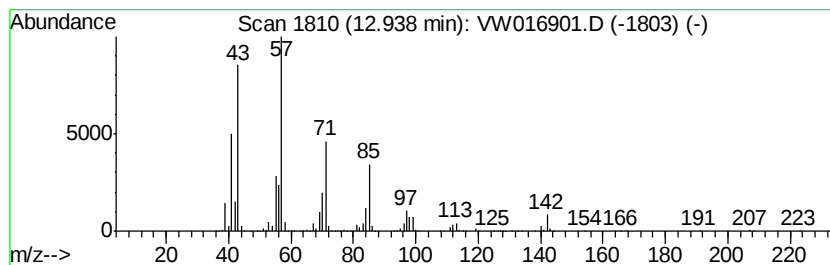
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 12.94 | 191.05 ug/L | 2302380 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Decane       | 142 | C10H22  | 000124-18-5 | 94   |
| 2    |    | Decane       | 142 | C10H22  | 000124-18-5 | 93   |
| 3    |    | Decane       | 142 | C10H22  | 000124-18-5 | 93   |
| 4    |    | Decane       | 142 | C10H22  | 000124-18-5 | 87   |
| 5    |    | Undecane     | 156 | C11H24  | 001120-21-4 | 86   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW01520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

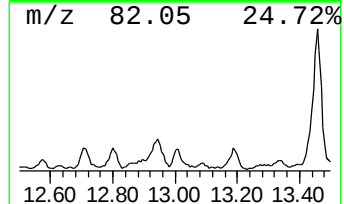
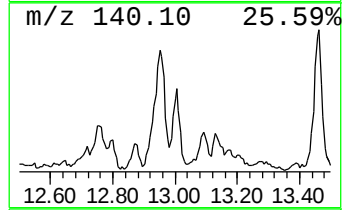
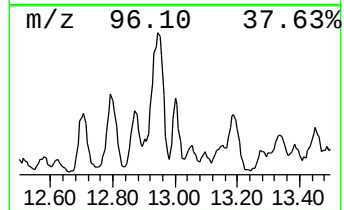
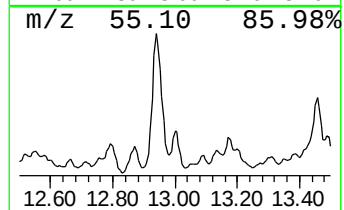
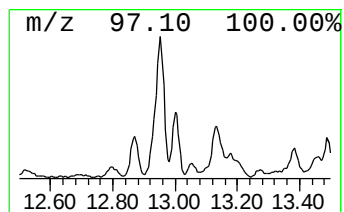
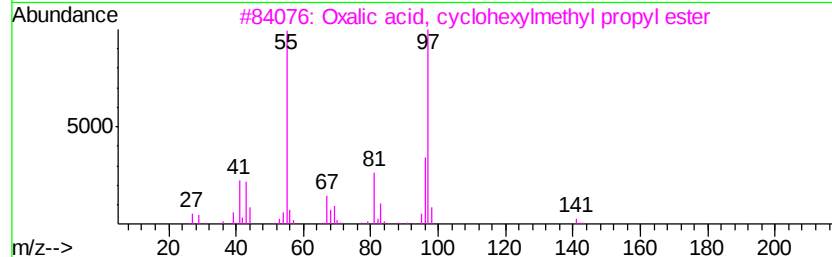
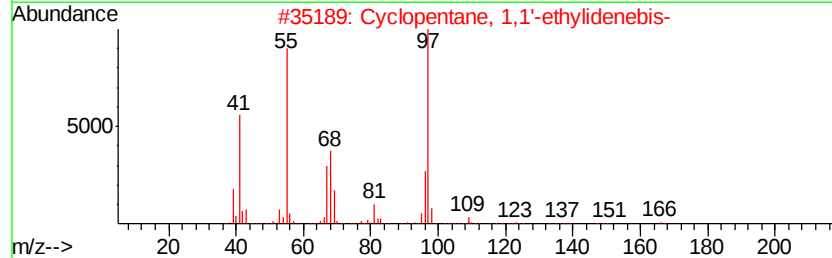
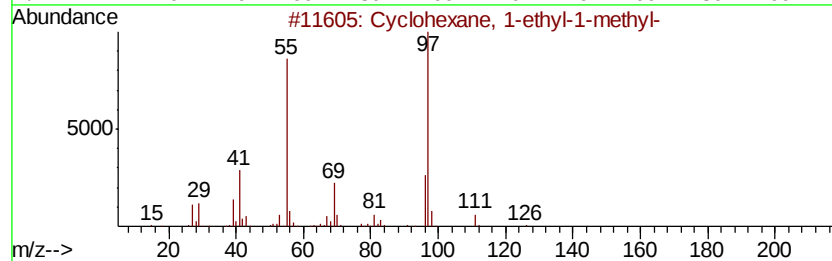
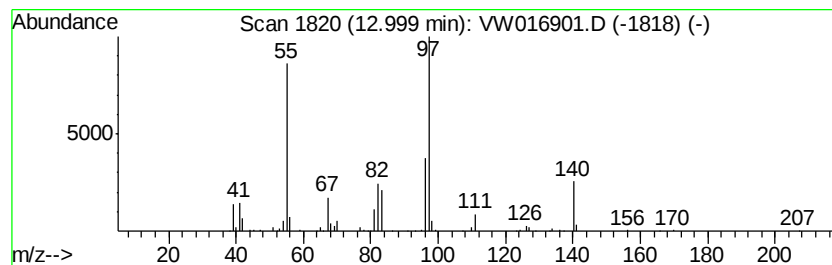
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 18 (DEL) Alkane: Cyclic13.00 Concentration Rank 42

| R.T.      | EstConc                             | Area   | Relative to ISTD       | R.T.         |      |
|-----------|-------------------------------------|--------|------------------------|--------------|------|
| 13.00     | 12.76 ug/L                          | 153757 | 1,4-Dichlorobenzene-d4 | 13.57        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm                | CAS#         | Qual |
| 1         | Cvclohexane, 1-ethyl-1-methyl-      | 126    | C9H18                  | 004926-90-3  | 53   |
| 2         | Cvclopentane, 1,1'-ethylidenebis-   | 166    | C12H22                 | 004413-21-2  | 50   |
| 3         | Oxalic acid, cyclohexylmethyl pr... | 228    | C12H20O4               | 1000309-68-1 | 50   |
| 4         | cis-2-Oxabicyclo[4.4.0]decane       | 140    | C9H16O                 | 060416-19-5  | 47   |
| 5         | Semustine                           | 247    | C10H18ClN3O2           | 013909-09-6  | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

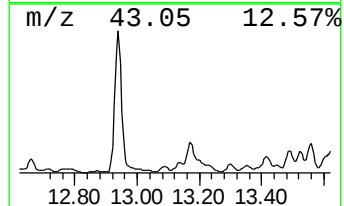
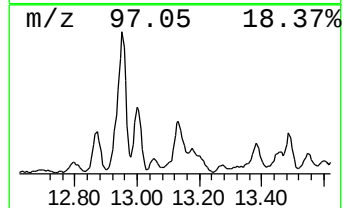
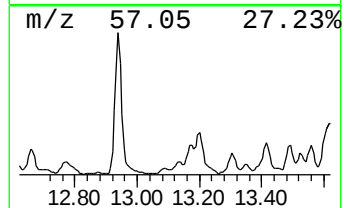
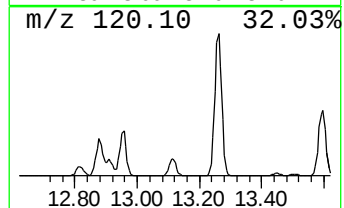
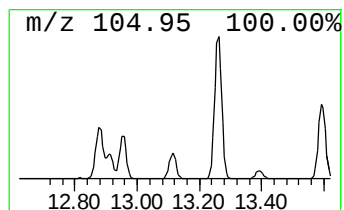
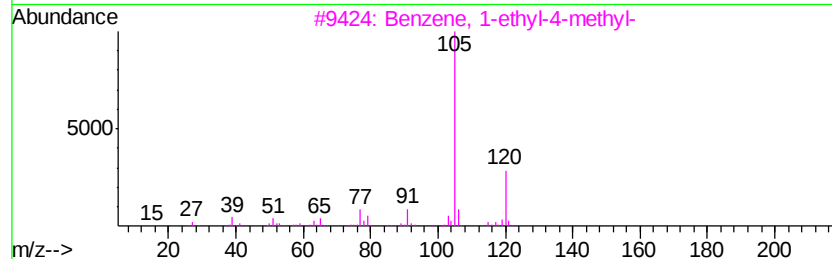
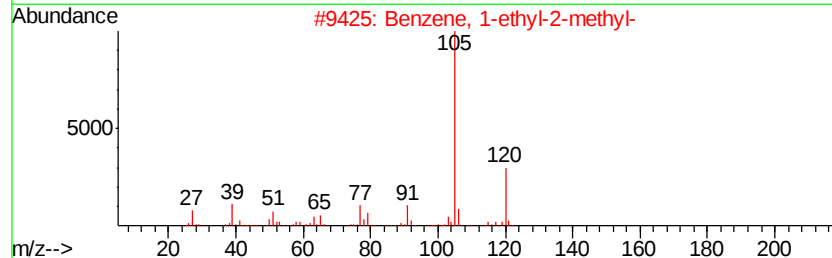
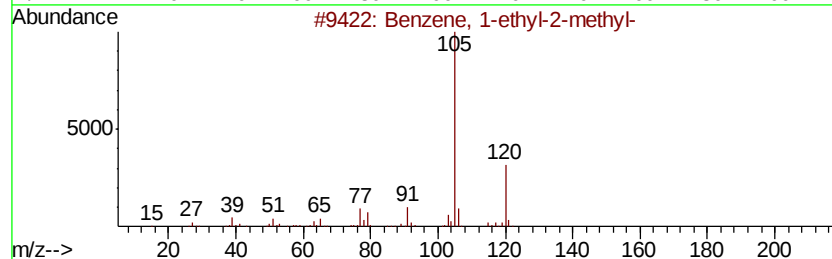
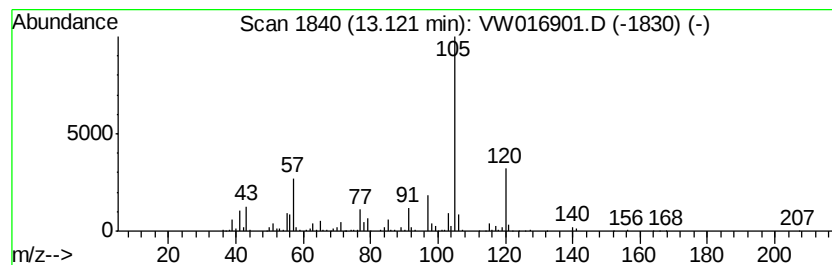
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Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 19 Benzene, 1-ethyl-2-methyl- Concentration Rank 16

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.12 | 42.86 ug/L | 516553 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 94   |
| 2    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 94   |
| 3    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 76   |
| 4    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 76   |
| 5    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 76   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

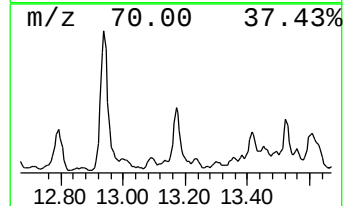
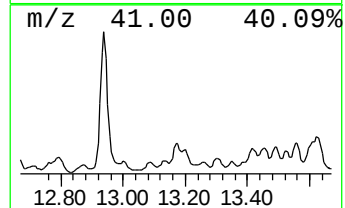
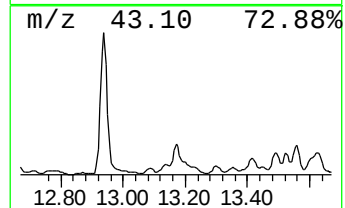
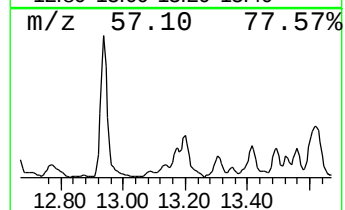
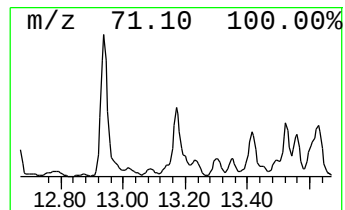
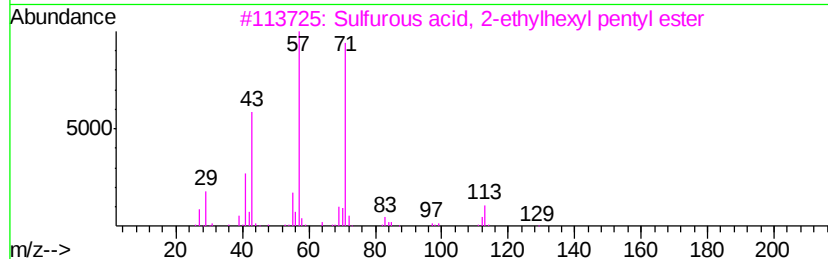
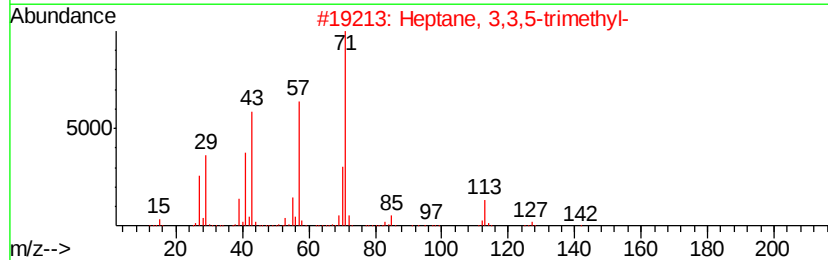
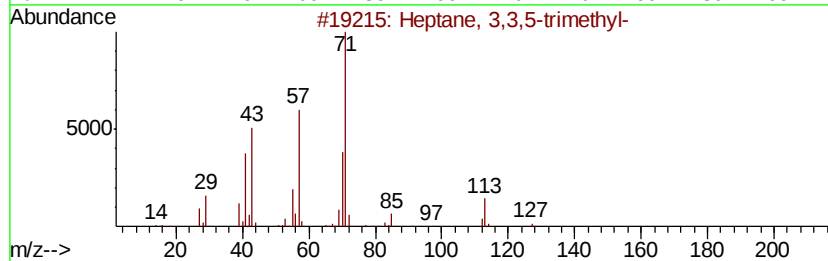
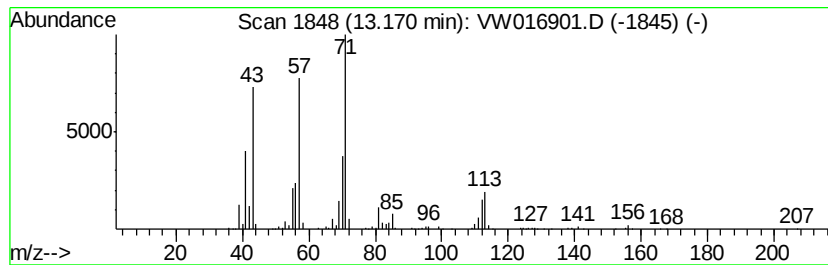
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 28

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.17 | 26.52 ug/L | 319569 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Heptane, 3,3,5-trimethyl-           | 142 | C10H22    | 007154-80-5  | 72   |
| 2    |    | Heptane, 3,3,5-trimethyl-           | 142 | C10H22    | 007154-80-5  | 64   |
| 3    |    | Sulfurous acid, 2-ethylhexyl pen... | 264 | C13H28O3S | 1000309-18-9 | 59   |
| 4    |    | Octane, 4-bromo-                    | 192 | C8H17Br   | 000999-06-4  | 59   |
| 5    |    | Heptane, 3,3,5-trimethyl-           | 142 | C10H22    | 007154-80-5  | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

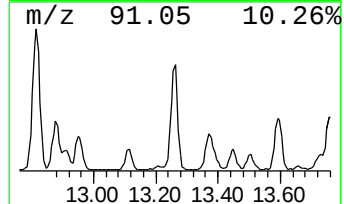
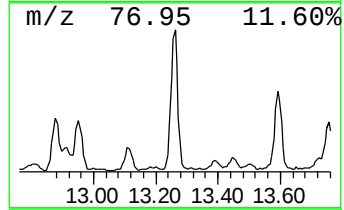
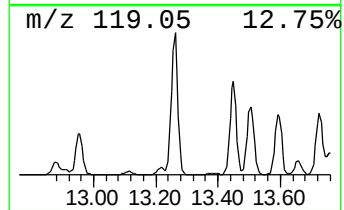
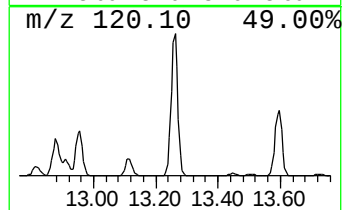
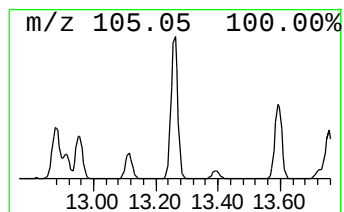
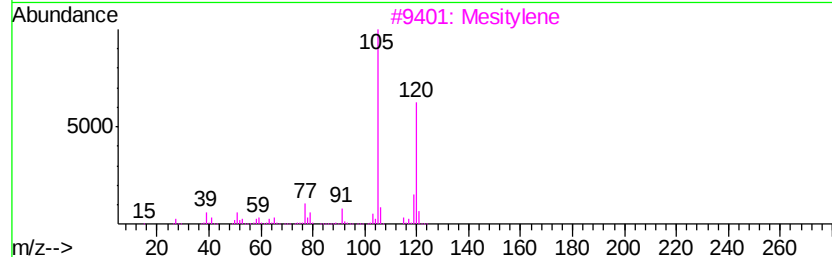
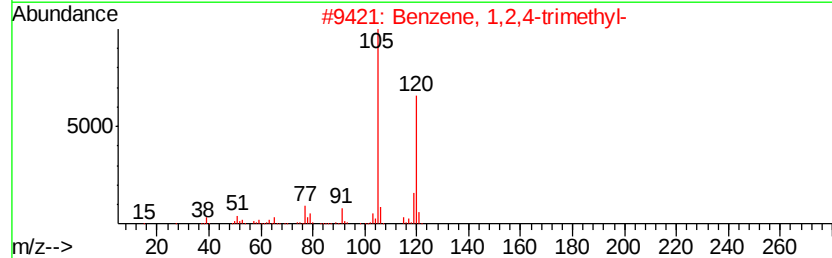
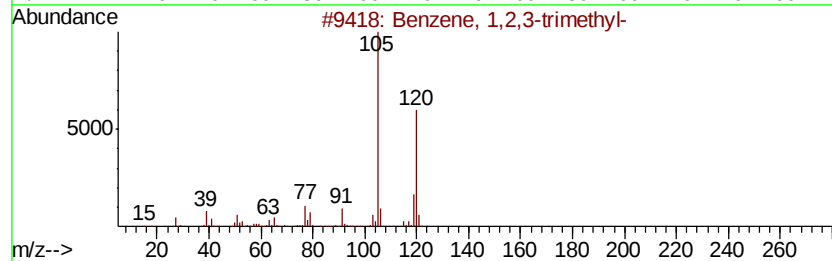
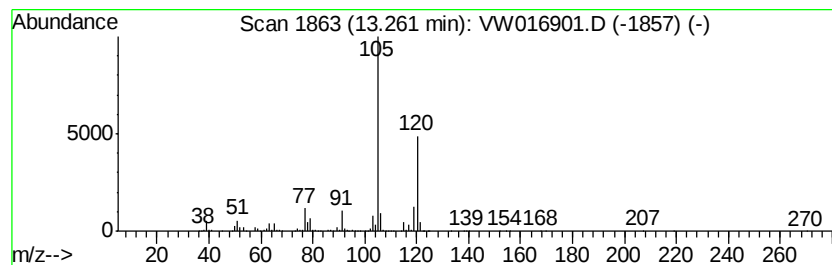
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 21 Benzene, 1,2,3-trimethyl- Concentration Rank 5

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 13.26 | 102.35 ug/L | 1233360 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3-trimethyl- | 120 | C9H12   | 000526-73-8 | 97   |
| 2    |    | Benzene, 1,2,4-trimethyl- | 120 | C9H12   | 000095-63-6 | 95   |
| 3    |    | Mesitylene                | 120 | C9H12   | 000108-67-8 | 94   |
| 4    |    | Mesitylene                | 120 | C9H12   | 000108-67-8 | 94   |
| 5    |    | Benzene, 1,2,4-trimethyl- | 120 | C9H12   | 000095-63-6 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

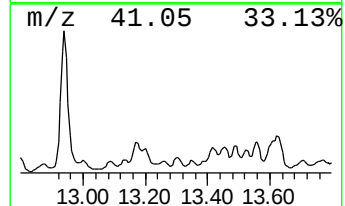
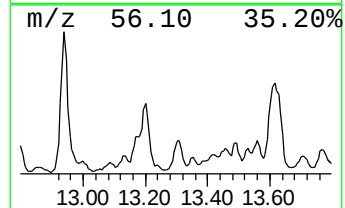
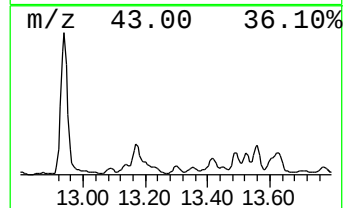
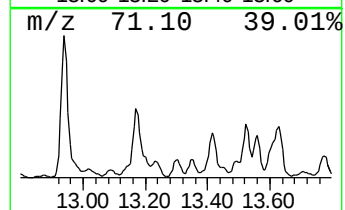
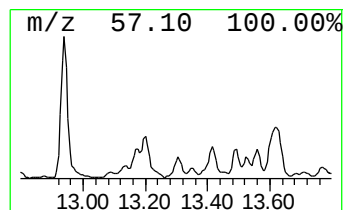
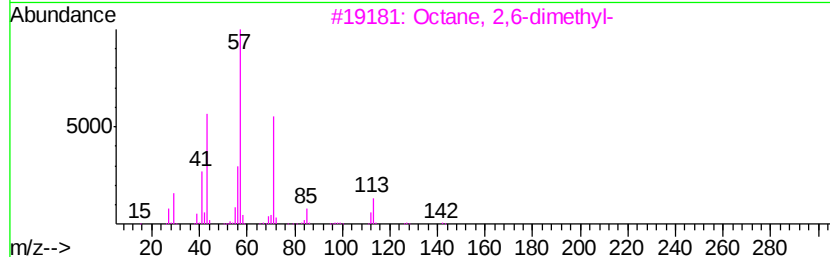
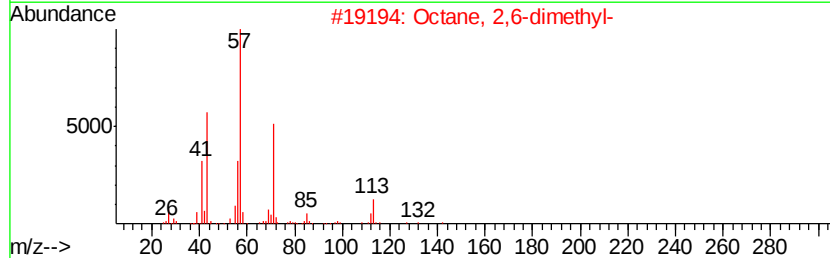
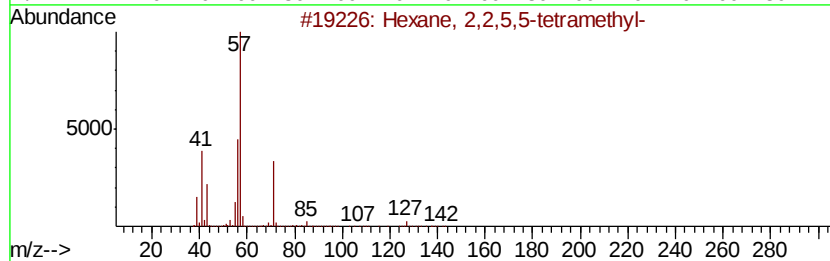
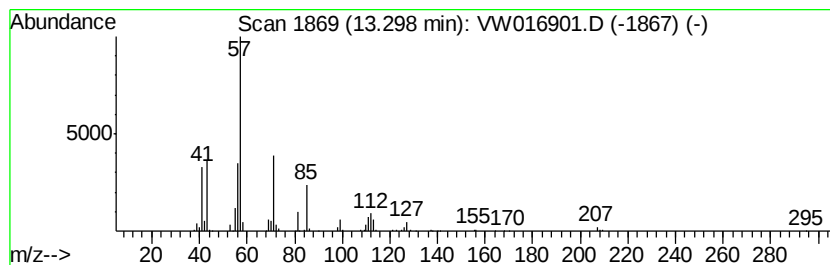
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 49

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.30 | 10.44 ug/L | 125837 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Hexane, 2,2,5,5-tetramethyl-        | 142 | C10H22    | 001071-81-4  | 47   |
| 2    |    | Octane, 2,6-dimethyl-               | 142 | C10H22    | 002051-30-1  | 40   |
| 3    |    | Octane, 2,6-dimethyl-               | 142 | C10H22    | 002051-30-1  | 40   |
| 4    |    | Sulfurous acid, 2-ethylhexyl iso... | 250 | C12H26O3S | 1000309-18-7 | 38   |
| 5    |    | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40    | 001921-70-6  | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

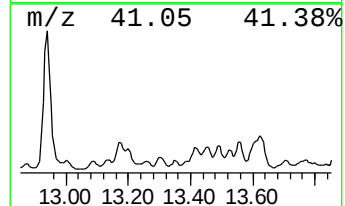
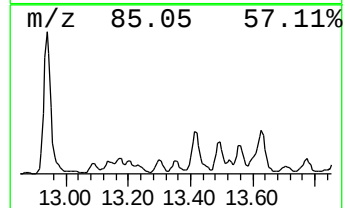
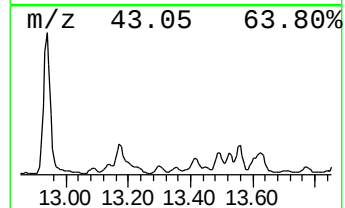
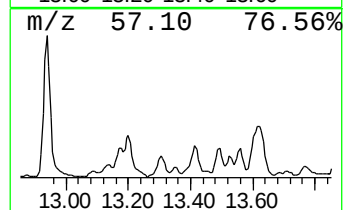
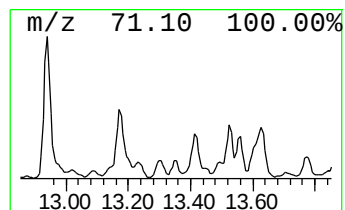
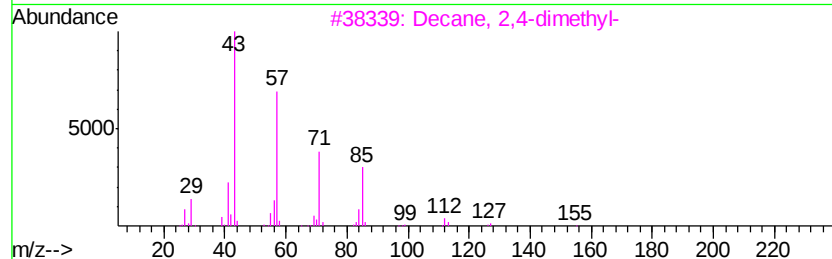
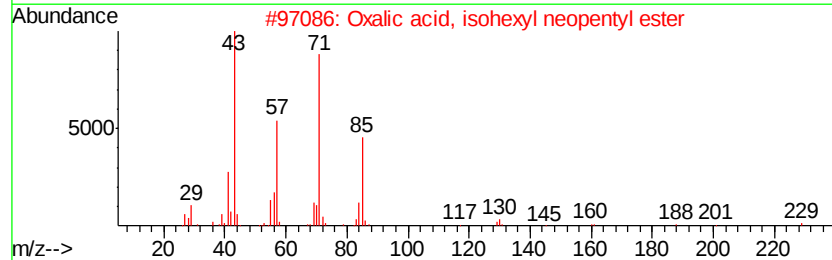
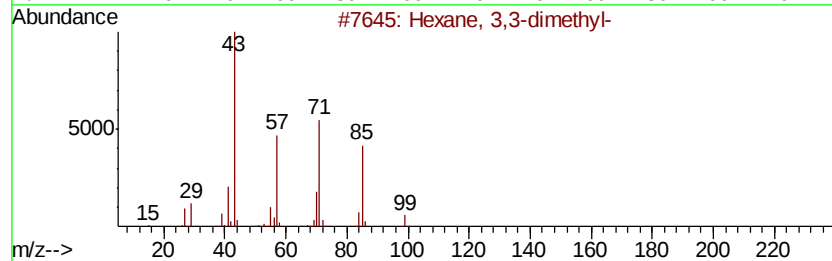
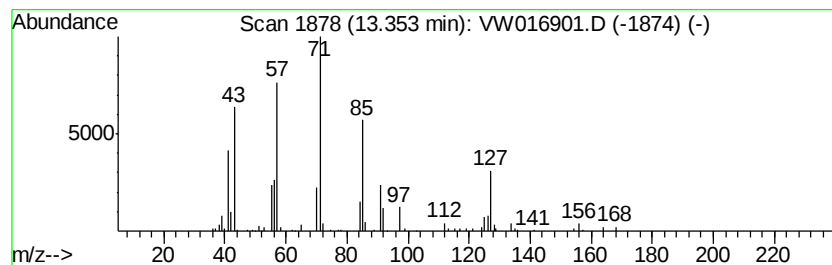
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 23 (DEL) Alkane: Straight-Chai... Concentration Rank 54

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.35 | 6.02 ug/L | 72581 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Hexane, 3,3-dimethyl-               | 114 | C8H18    | 000563-16-6  | 59   |
| 2    |    |   | Oxalic acid, isohexyl neopentyl ... | 244 | C13H24O4 | 1000309-73-0 | 50   |
| 3    |    |   | Decane, 2,4-dimethyl-               | 170 | C12H26   | 002801-84-5  | 50   |
| 4    |    |   | 4-Octanone                          | 128 | C8H16O   | 000589-63-9  | 47   |
| 5    |    |   | Oxalic acid, isohexyl pentyl ester  | 244 | C13H24O4 | 1000309-32-8 | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW01520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

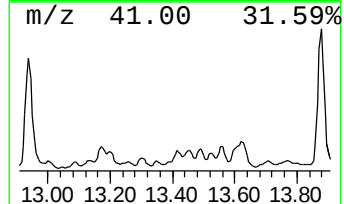
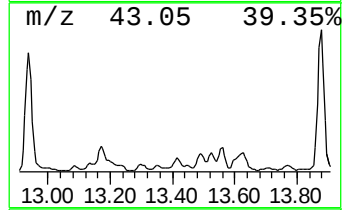
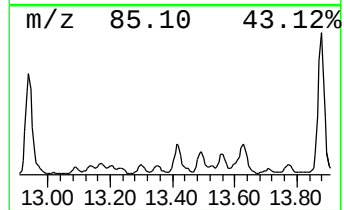
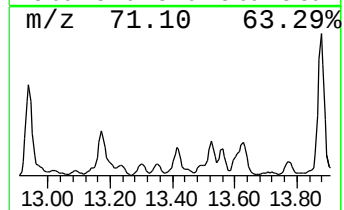
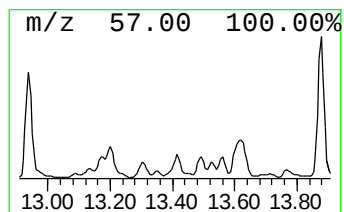
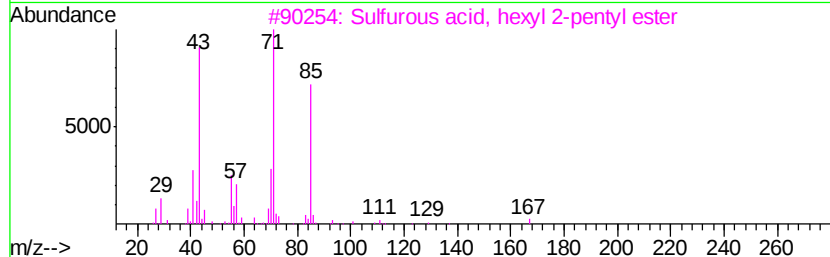
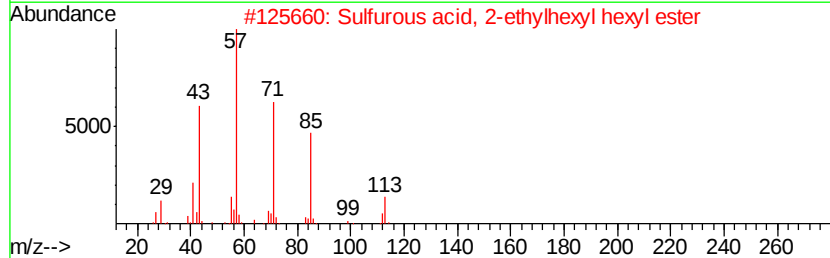
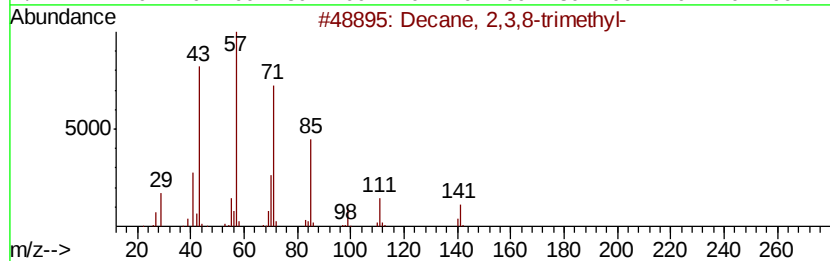
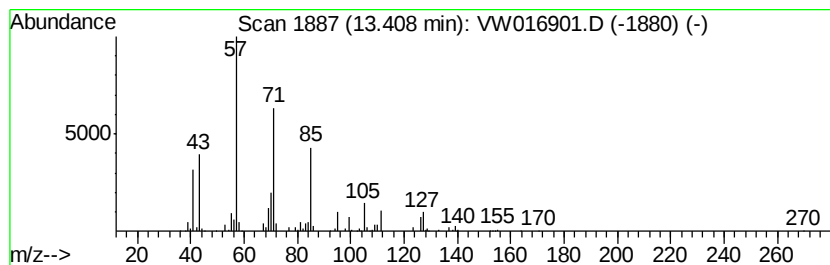
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 24 (DEL) Alkane: Straight-Chai... Concentration Rank 22

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.41 | 31.03 ug/L | 373991 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Decane, 2,3,8-trimethyl-            | 184 | C13H28    | 062238-14-6  | 64   |
| 2    |    | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 50   |
| 3    |    | Sulfurous acid, hexyl 2-pentyl e... | 236 | C11H24O3S | 1000309-15-6 | 50   |
| 4    |    | Nonane, 5-methyl-5-propyl-          | 184 | C13H28    | 017312-75-3  | 47   |
| 5    |    | Octane, 3,4,5,6-tetramethyl-        | 170 | C12H26    | 062185-21-1  | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

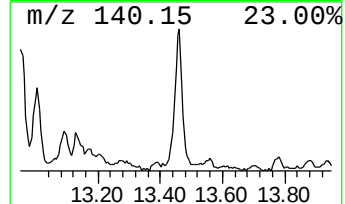
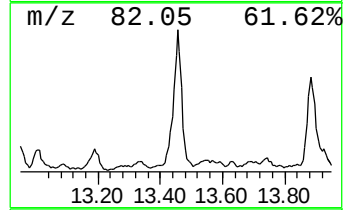
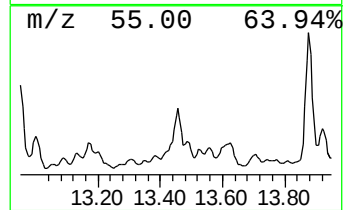
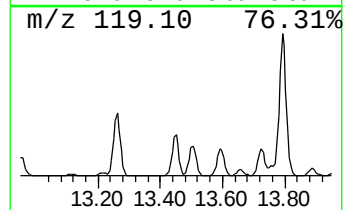
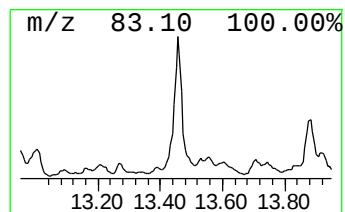
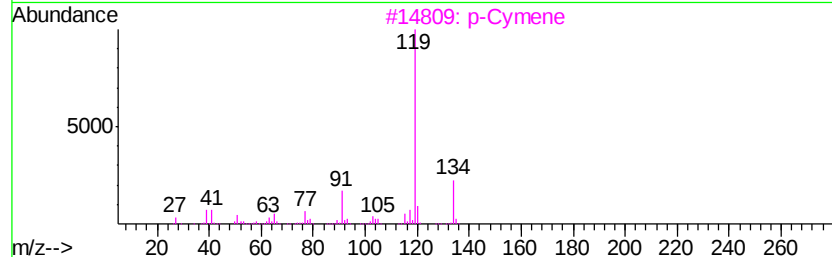
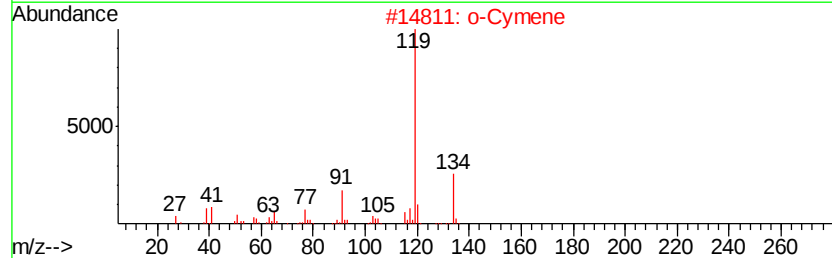
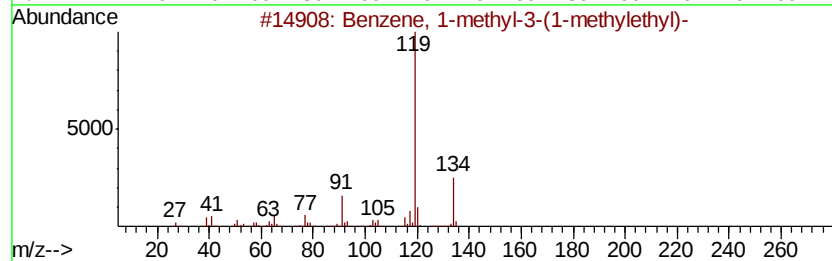
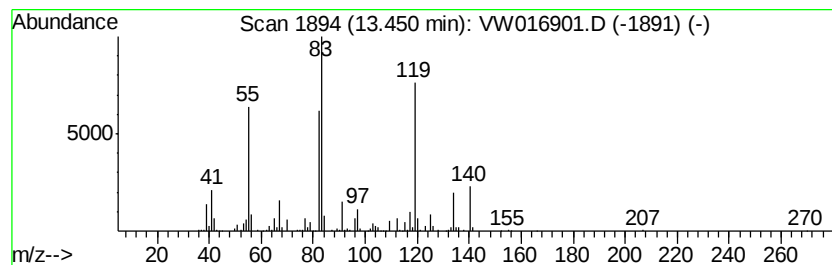
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 25 Benzene, 1-methyl-3-(1-meth... Concentration Rank 33

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.45 | 20.08 ug/L | 242005 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 55   |
| 2    |    | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 55   |
| 3    |    | p-Cymene                            | 134 | C10H14  | 000099-87-6 | 55   |
| 4    |    | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 55   |
| 5    |    | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 55   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

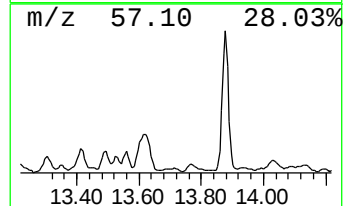
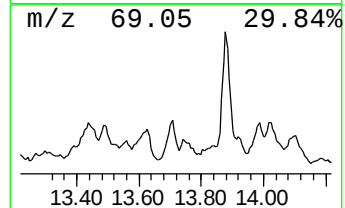
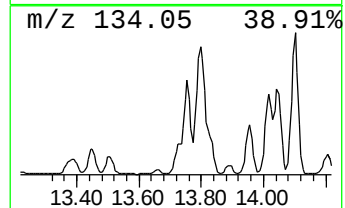
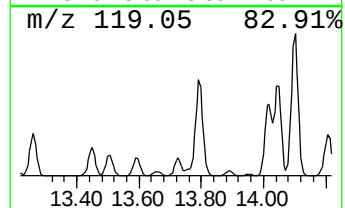
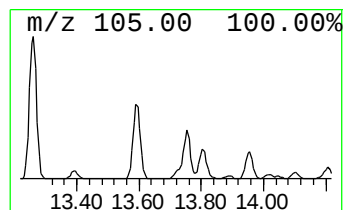
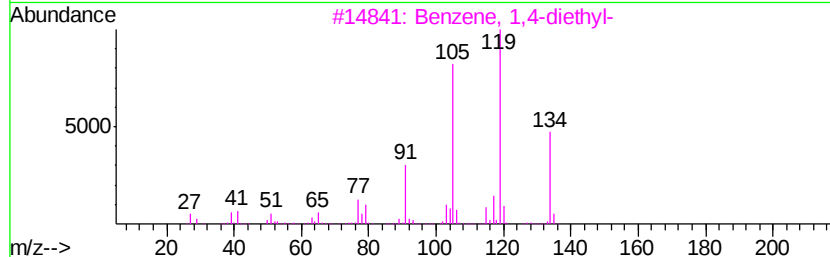
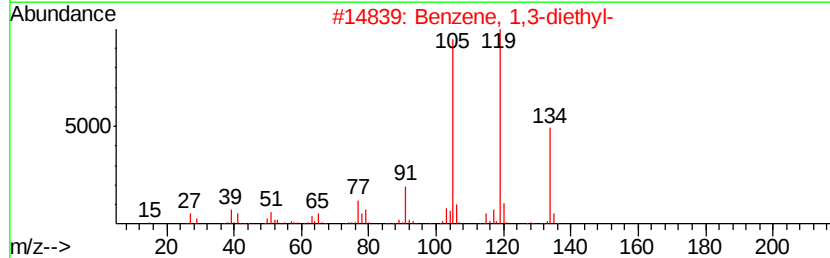
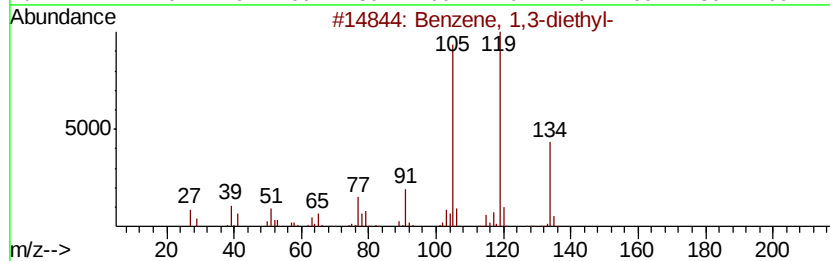
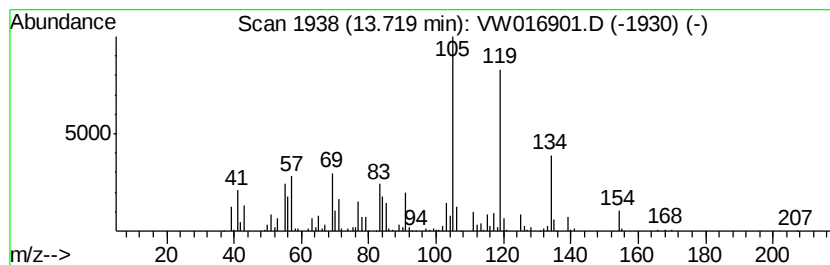
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 26 Benzene, 1,3-diethyl- Concentration Rank 34

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.72 | 20.03 ug/L | 241399 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,3-diethyl- | 134 | C10H14  | 000141-93-5 | 90   |
| 2    |    | Benzene, 1,3-diethyl- | 134 | C10H14  | 000141-93-5 | 74   |
| 3    |    | Benzene, 1,4-diethyl- | 134 | C10H14  | 000105-05-5 | 70   |
| 4    |    | Benzene, 1,2-diethyl- | 134 | C10H14  | 000135-01-3 | 70   |
| 5    |    | Benzene, 1,4-diethyl- | 134 | C10H14  | 000105-05-5 | 70   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

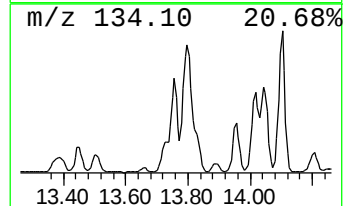
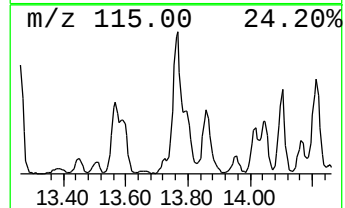
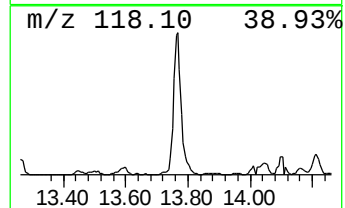
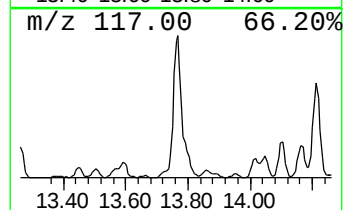
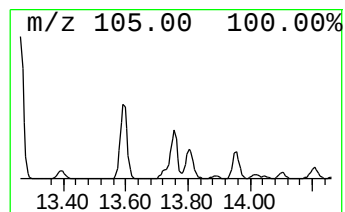
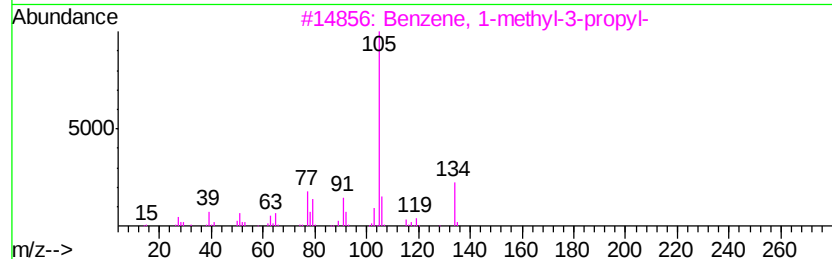
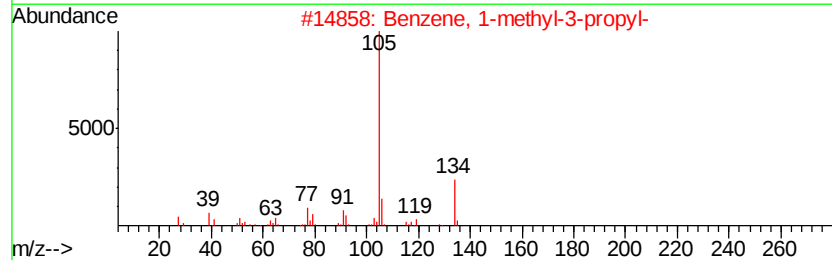
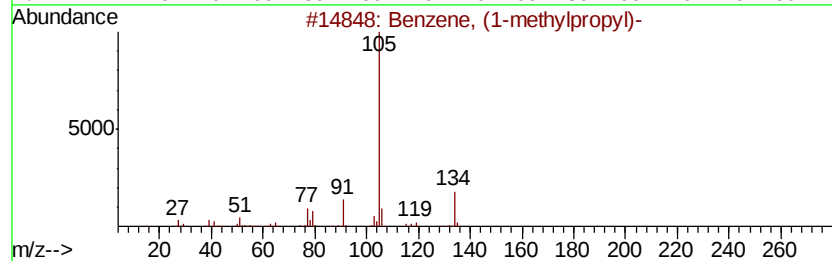
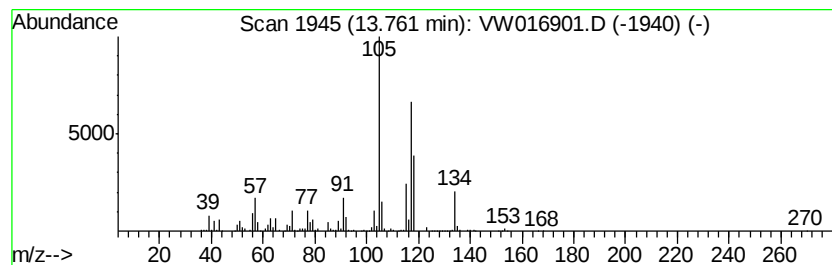
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 27 Benzene, (1-methylpropyl)- Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.76 | 61.45 ug/L | 740575 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, (1-methylpropyl)-  | 134 | C10H14  | 000135-98-8 | 55   |
| 2    |    | Benzene, 1-methyl-3-propyl- | 134 | C10H14  | 001074-43-7 | 55   |
| 3    |    | Benzene, 1-methyl-3-propyl- | 134 | C10H14  | 001074-43-7 | 55   |
| 4    |    | Benzene, 1-methyl-3-propyl- | 134 | C10H14  | 001074-43-7 | 53   |
| 5    |    | Benzene, (1-methylpropyl)-  | 134 | C10H14  | 000135-98-8 | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

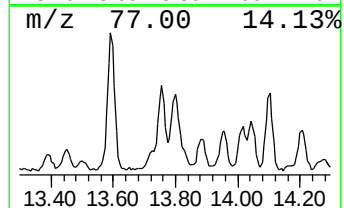
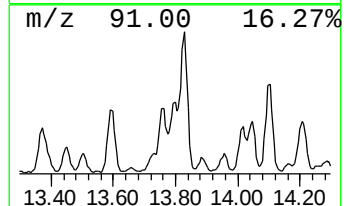
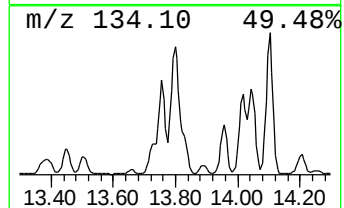
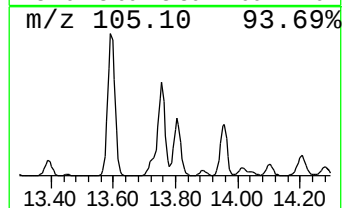
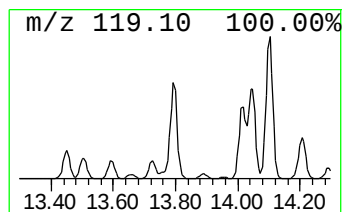
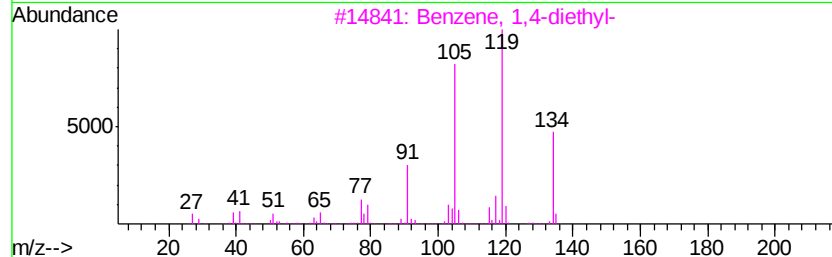
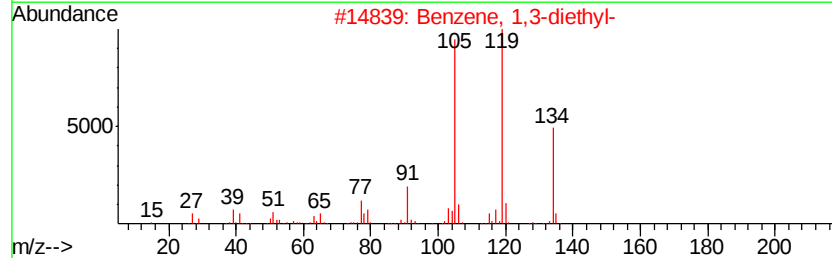
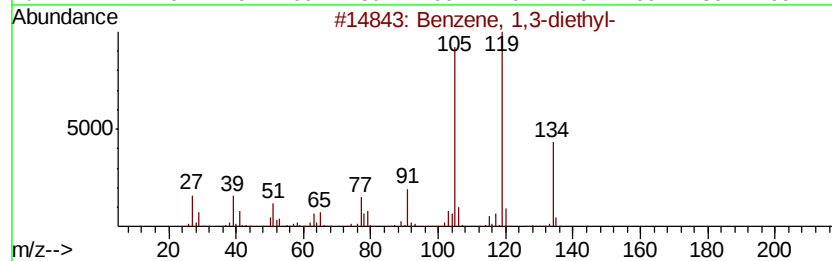
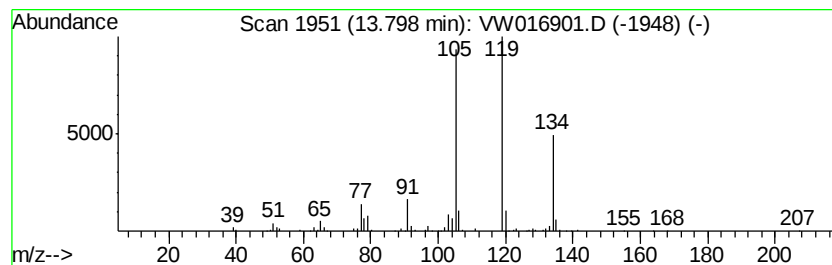
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 28 Benzene, 1,4-diethyl- Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.80 | 53.33 ug/L | 642718 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,3-diethyl- | 134 | C10H14  | 000141-93-5 | 91   |
| 2    |    | Benzene, 1,3-diethyl- | 134 | C10H14  | 000141-93-5 | 91   |
| 3    |    | Benzene, 1,4-diethyl- | 134 | C10H14  | 000105-05-5 | 91   |
| 4    |    | Benzene, 1,2-diethyl- | 134 | C10H14  | 000135-01-3 | 91   |
| 5    |    | Benzene, 1,4-diethyl- | 134 | C10H14  | 000105-05-5 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

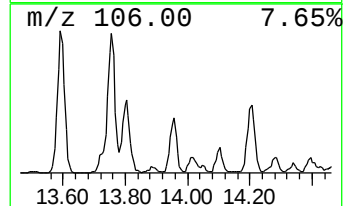
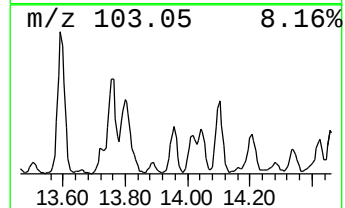
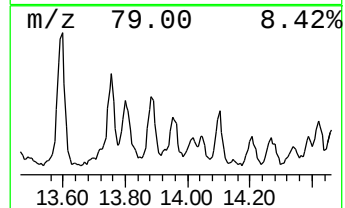
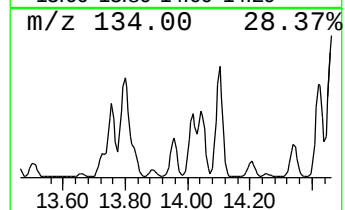
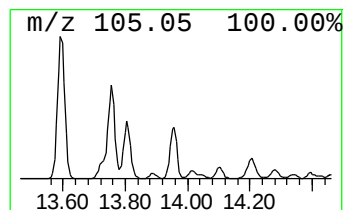
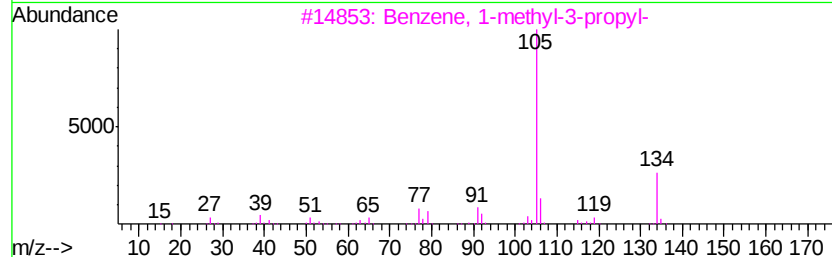
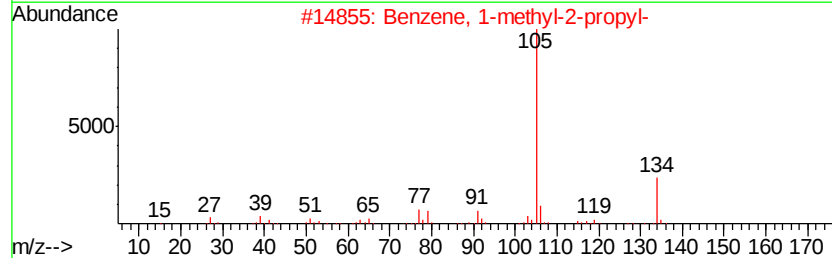
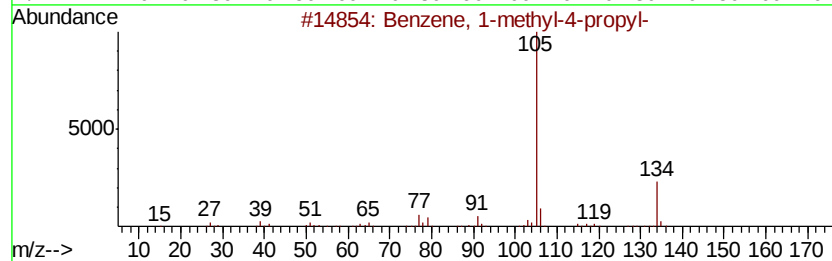
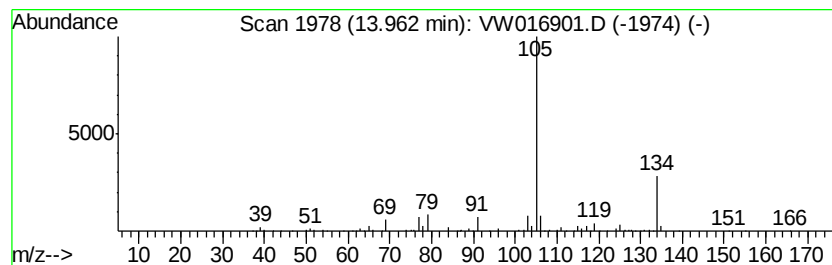
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 29 Benzene, 1-methyl-4-propyl- Concentration Rank 36

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.96 | 18.33 ug/L | 220905 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 90   |
| 2    |    | Benzene, 1-methyl-2-propyl- | 134 | C10H14  | 001074-17-5 | 90   |
| 3    |    | Benzene, 1-methyl-3-propyl- | 134 | C10H14  | 001074-43-7 | 90   |
| 4    |    | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 90   |
| 5    |    | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 90   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

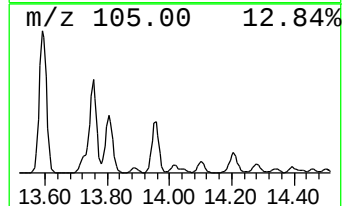
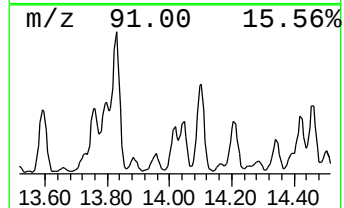
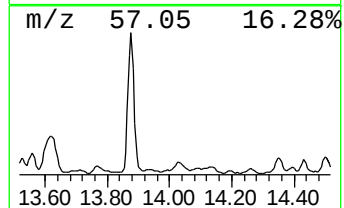
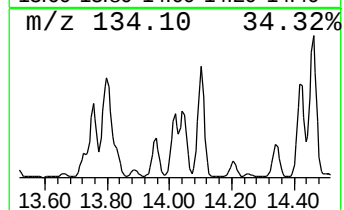
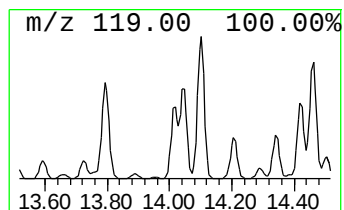
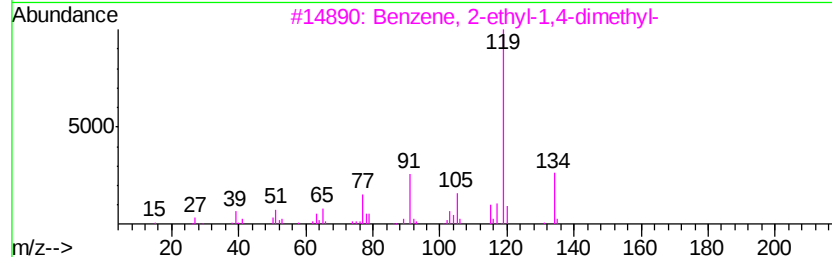
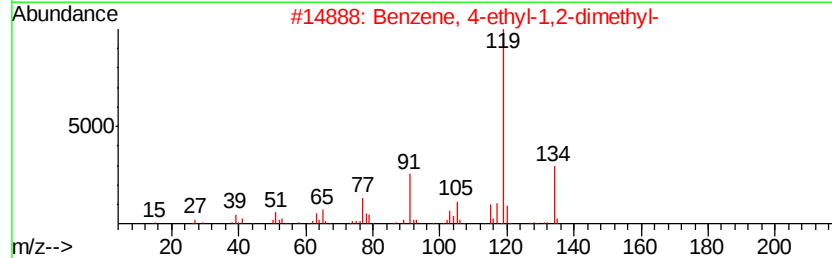
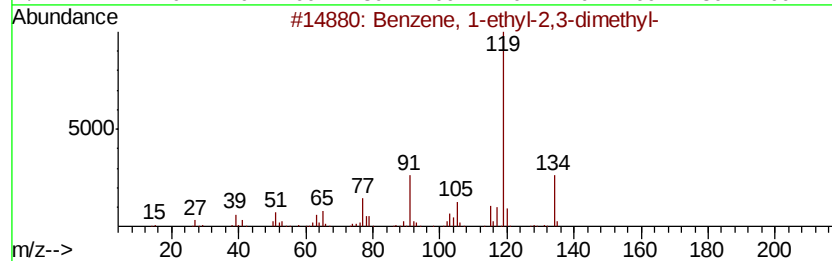
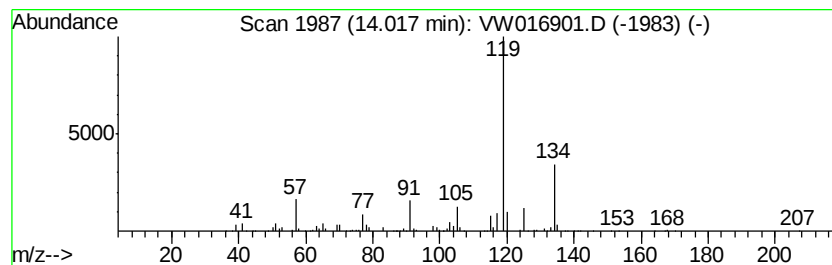
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 30 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 23

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.02 | 29.85 ug/L | 359661 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 95   |
| 2    |    | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 95   |
| 3    |    | Benzene, 2-ethyl-1,4-dimethyl-      | 134 | C10H14  | 001758-88-9 | 95   |
| 4    |    | Benzene, 2-ethyl-1,4-dimethyl-      | 134 | C10H14  | 001758-88-9 | 94   |
| 5    |    | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 93   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

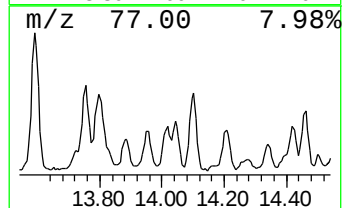
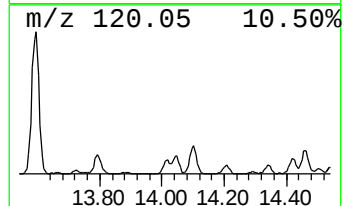
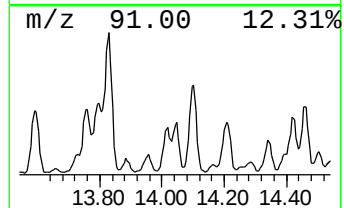
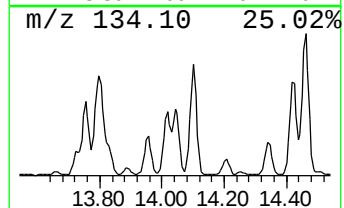
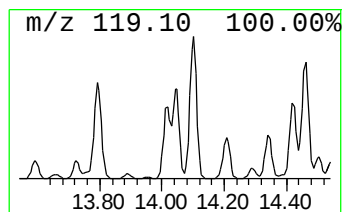
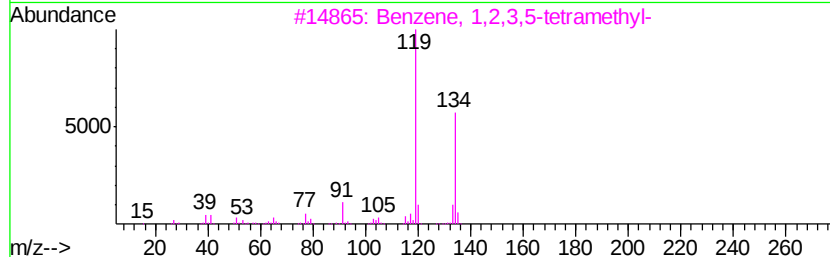
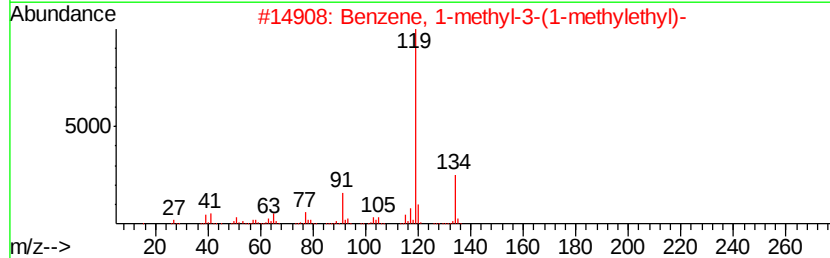
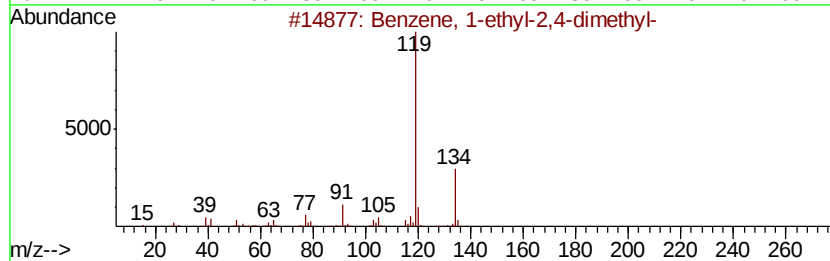
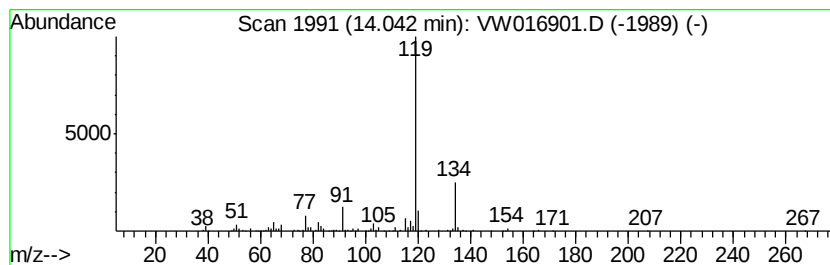
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 31 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 21

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.04 | 32.31 ug/L | 389325 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2,4-dimethyl-       | 134 | C10H14  | 000874-41-9 | 91   |
| 2    |    | Benzene, 1-methyl-3-(1-methylethyl-) | 134 | C10H14  | 000535-77-3 | 91   |
| 3    |    | Benzene, 1,2,3,5-tetramethyl-        | 134 | C10H14  | 000527-53-7 | 91   |
| 4    |    | Benzene, 4-ethyl-1,2-dimethyl-       | 134 | C10H14  | 000934-80-5 | 91   |
| 5    |    | p-Cymene                             | 134 | C10H14  | 000099-87-6 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

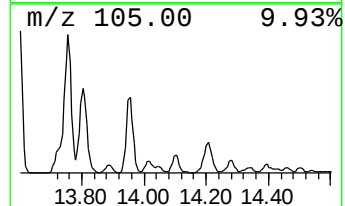
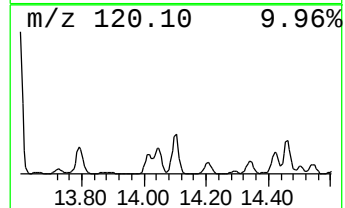
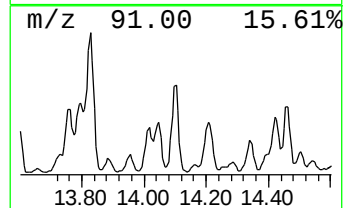
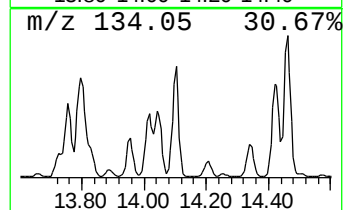
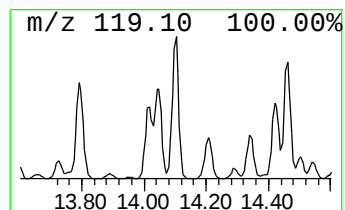
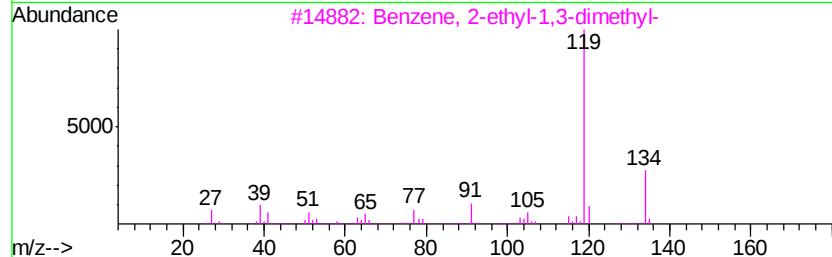
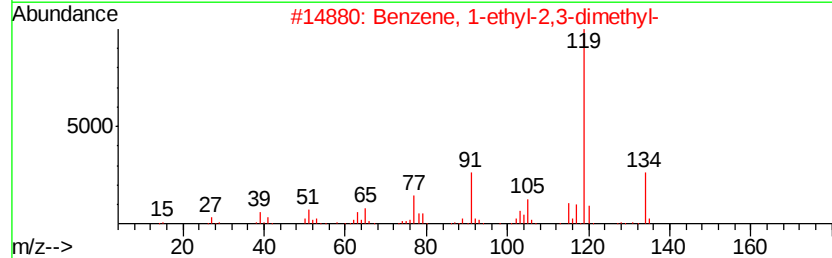
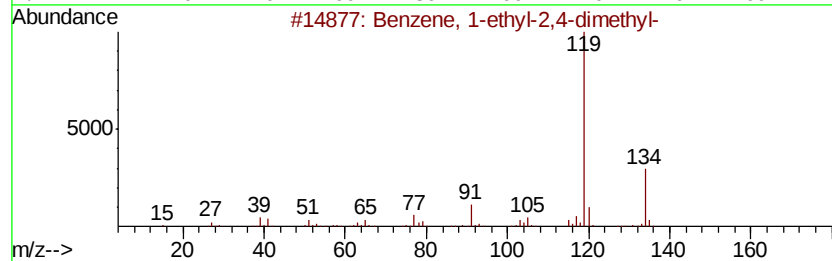
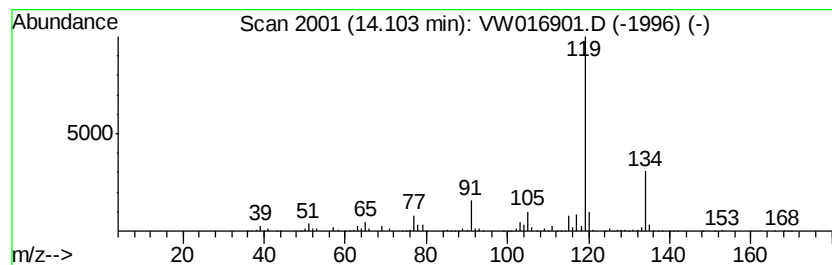
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 32 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 15

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.10 | 43.84 ug/L | 528254 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 97   |
| 2    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 96   |
| 3    |    | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 95   |
| 4    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 95   |
| 5    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

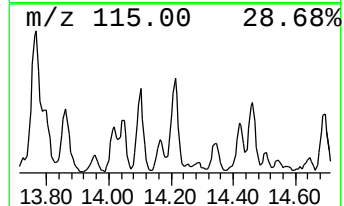
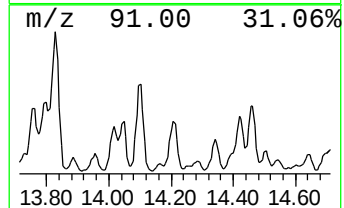
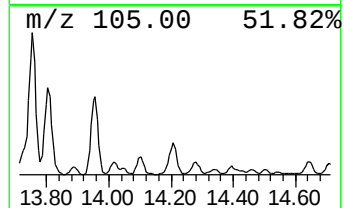
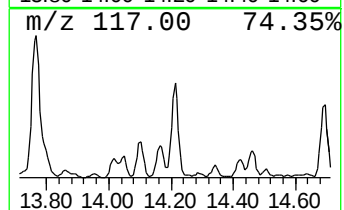
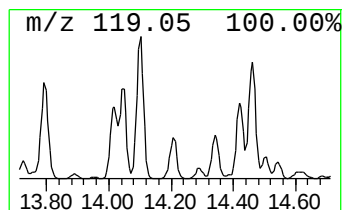
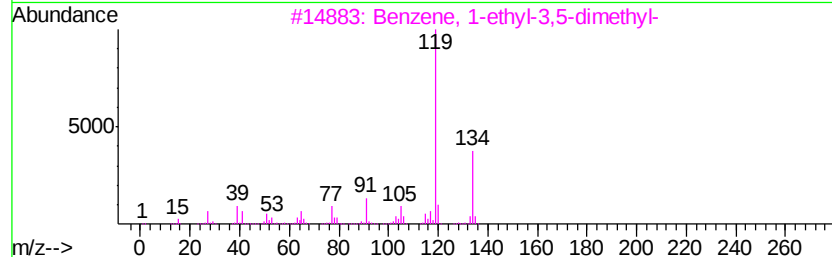
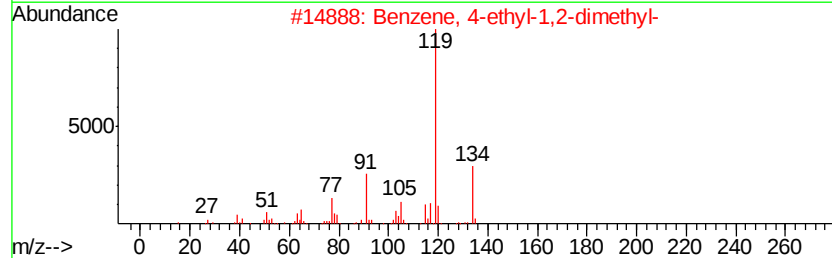
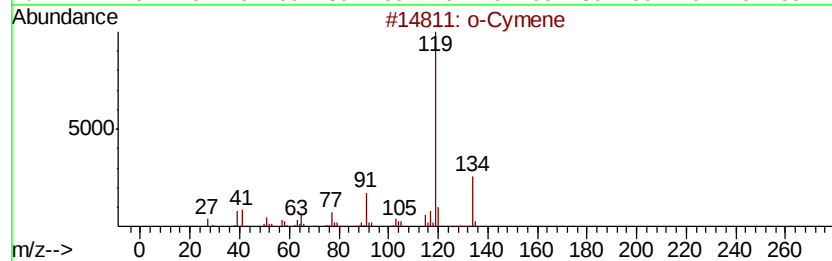
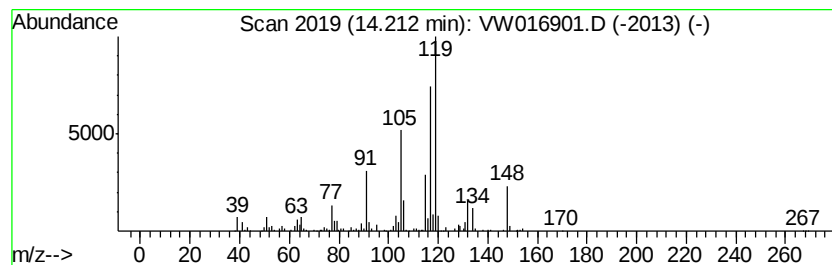
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 33 o-Cymene Concentration Rank 25

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.21 | 28.57 ug/L | 344318 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 50   |
| 2    |    | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 49   |
| 3    |    | Benzene, 1-ethyl-3,5-dimethyl-      | 134 | C10H14  | 000934-74-7 | 46   |
| 4    |    | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16  | 001595-16-0 | 46   |
| 5    |    | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 46   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

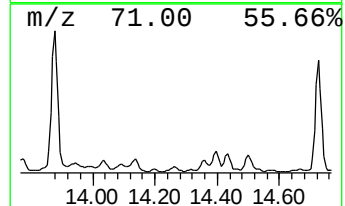
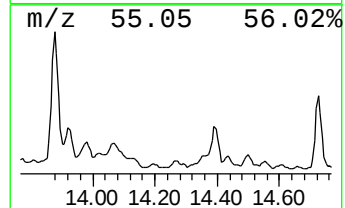
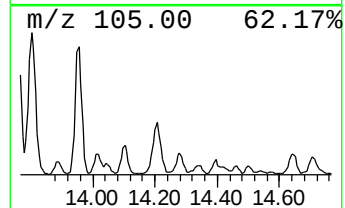
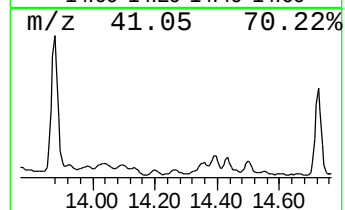
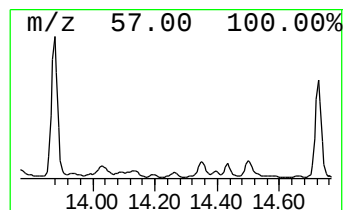
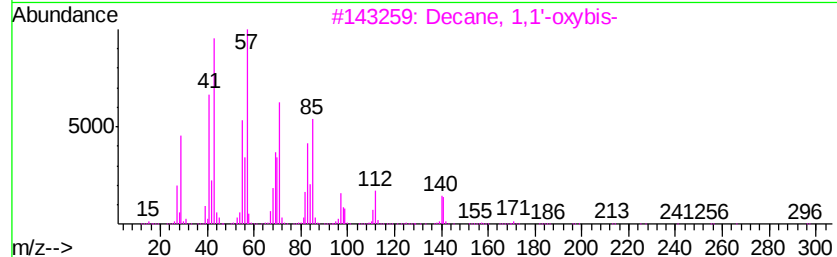
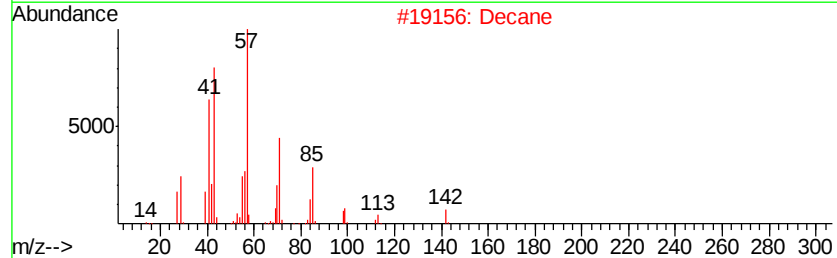
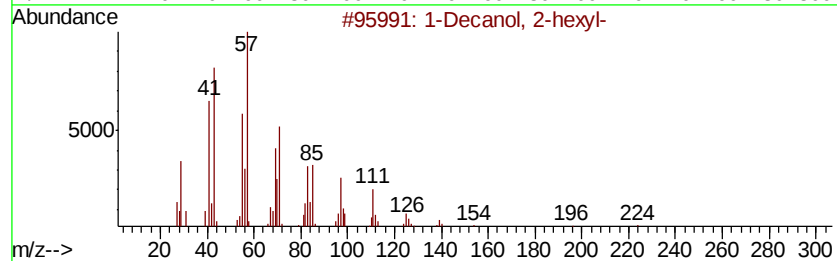
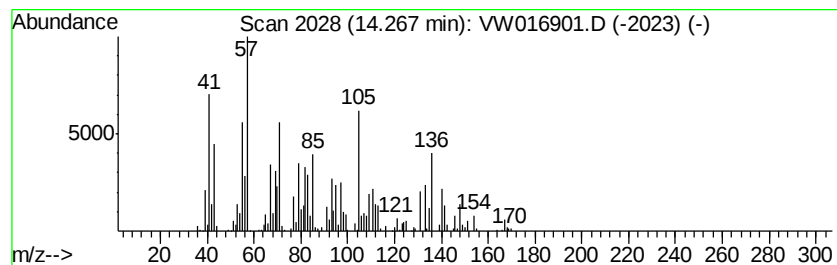
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

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

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Peak Number 34 1-Decanol, 2-hexyl- Concentration Rank 39

| R.T.    | EstConc                  | Area         | Relative to ISTD       | R.T.      |
|---------|--------------------------|--------------|------------------------|-----------|
| 14.27   | 13.80 ug/L               | 166332       | 1,4-Dichlorobenzene-d4 | 13.57     |
| Hit# of | 5                        | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | 1-Decanol, 2-hexyl-      | 242 C16H34O  | 002425-77-6            | 38        |
| 2       | Decane                   | 142 C10H22   | 000124-18-5            | 35        |
| 3       | Decane, 1,1'-oxybis-     | 298 C20H42O  | 002456-28-2            | 27        |
| 4       | 1-Dodecanol, 2-octyl-    | 298 C20H42O  | 005333-42-6            | 22        |
| 5       | Decane, 2,3,8-trimethyl- | 184 C13H28   | 062238-14-6            | 22        |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

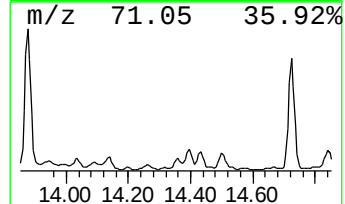
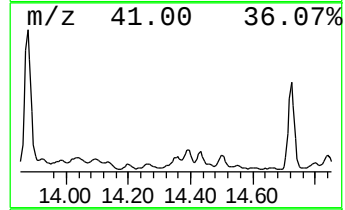
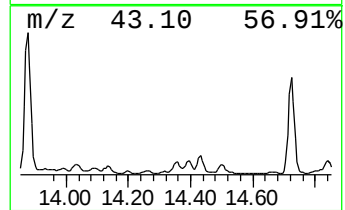
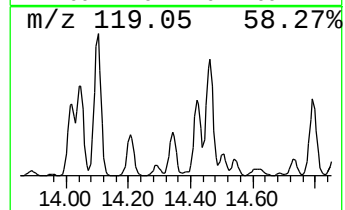
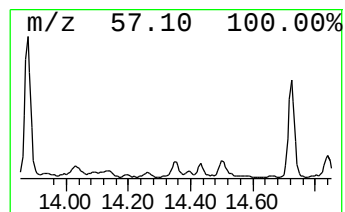
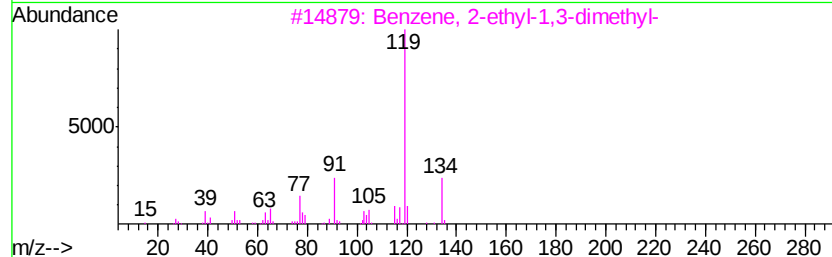
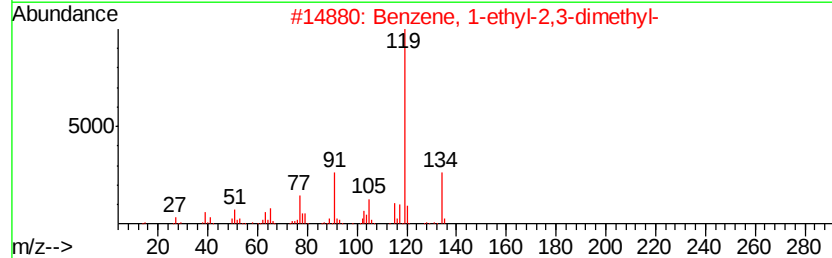
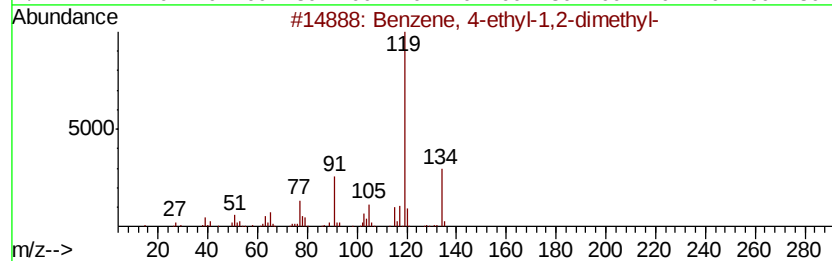
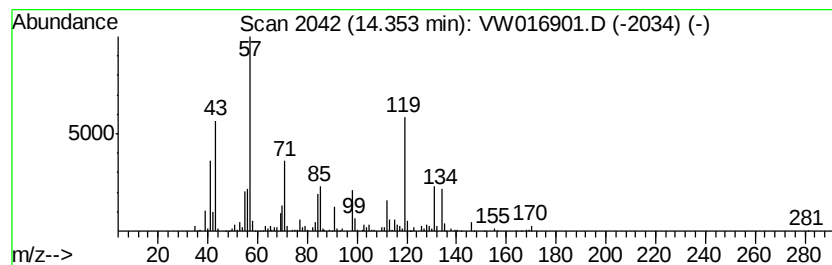
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 35 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 19

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.35 | 37.78 ug/L | 455227 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 90   |
| 2    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 90   |
| 3    |    | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 78   |
| 4    |    | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 78   |
| 5    |    | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 60   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

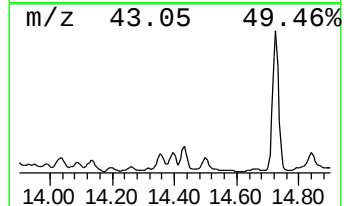
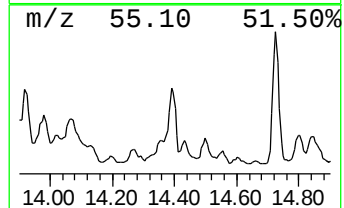
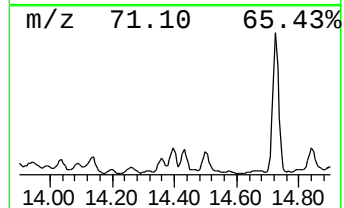
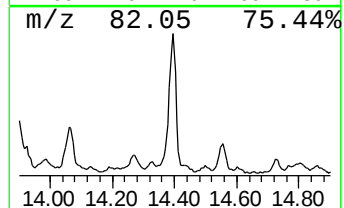
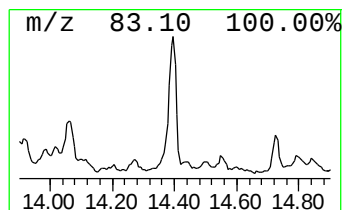
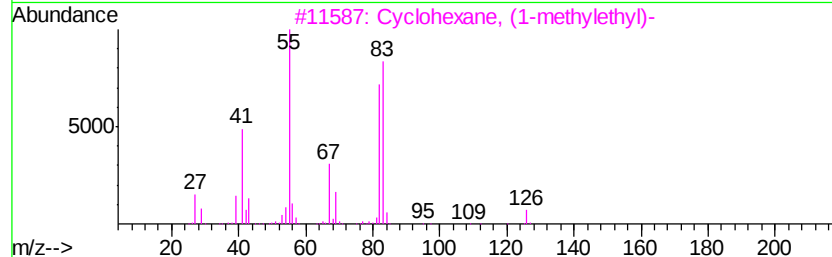
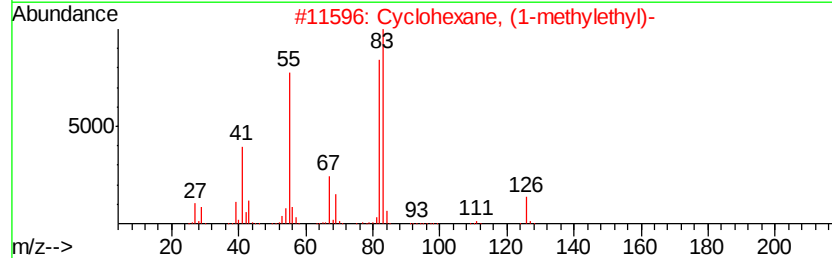
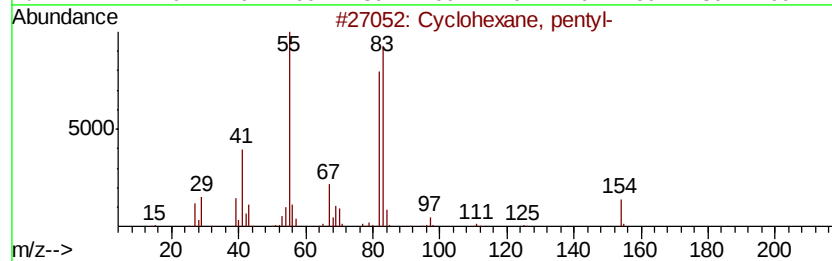
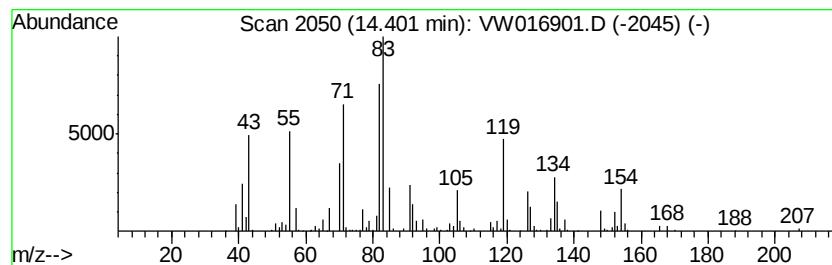
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 36 (DEL) Alkane: Cyclic14.40 Concentration Rank 18

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.40 | 40.65 ug/L | 489920 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, pentyl-          | 154 | C11H22  | 004292-92-6 | 47   |
| 2    |    | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 46   |
| 3    |    | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 43   |
| 4    |    | Cyclohexane, propyl-          | 126 | C9H18   | 001678-92-8 | 43   |
| 5    |    | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

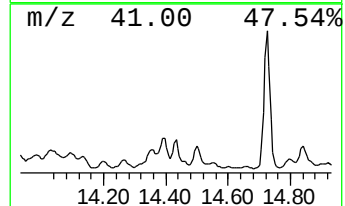
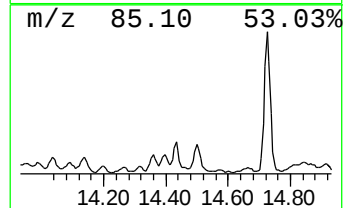
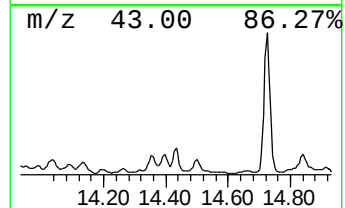
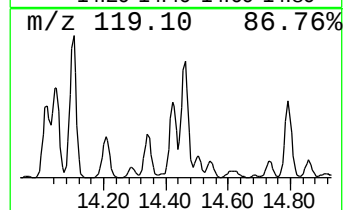
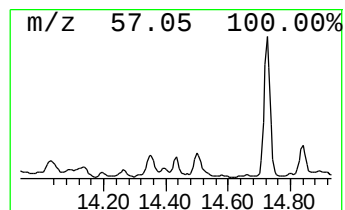
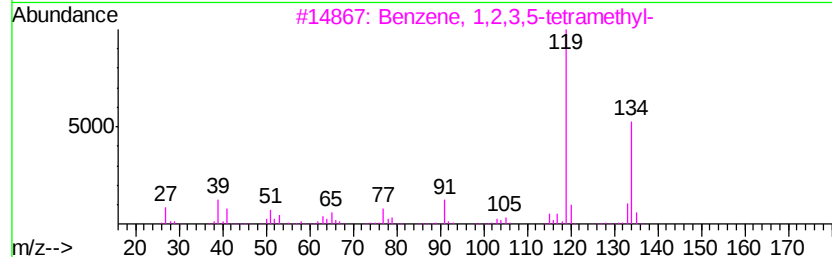
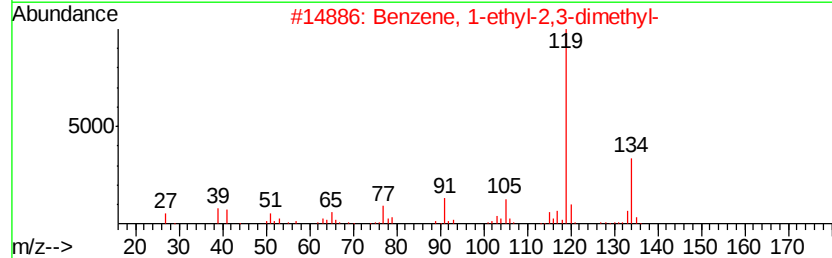
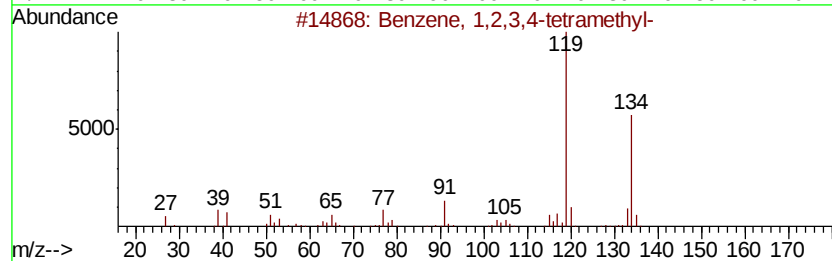
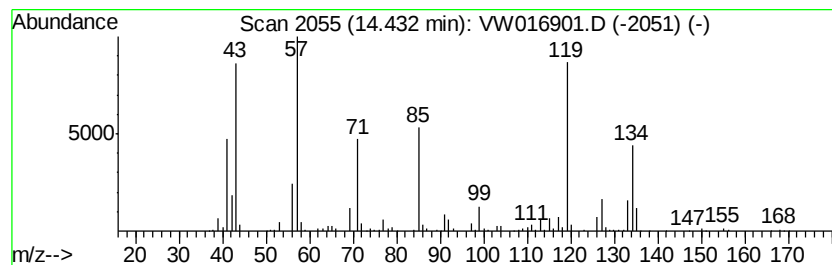
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 37 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 13

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.43 | 46.01 ug/L | 554485 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 81   |
| 2    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 81   |
| 3    |    | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 81   |
| 4    |    | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 81   |
| 5    |    | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 81   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

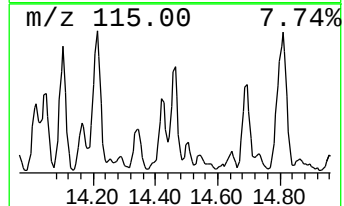
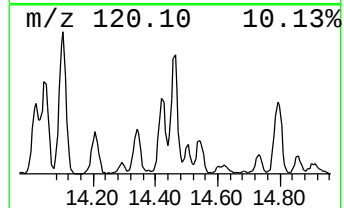
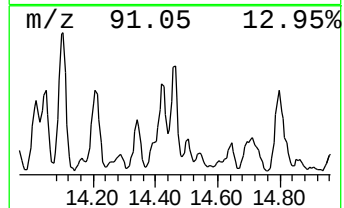
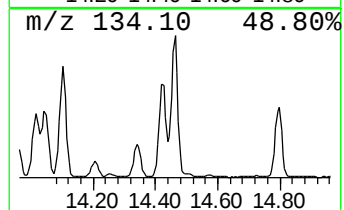
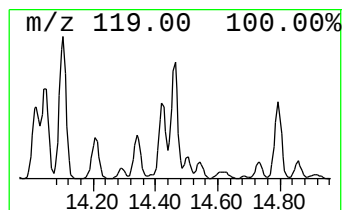
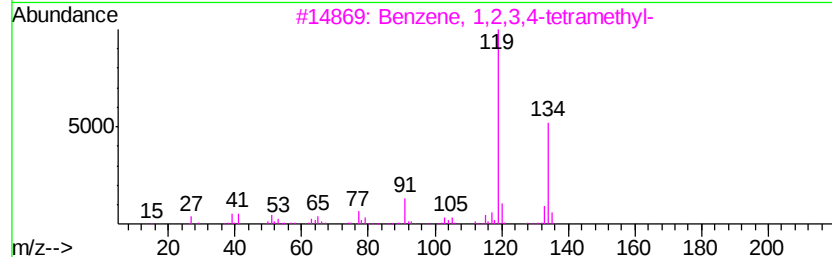
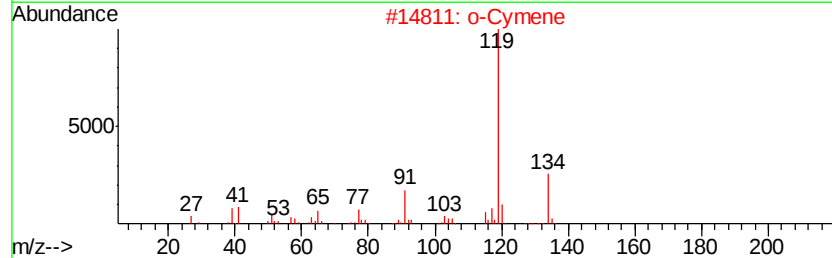
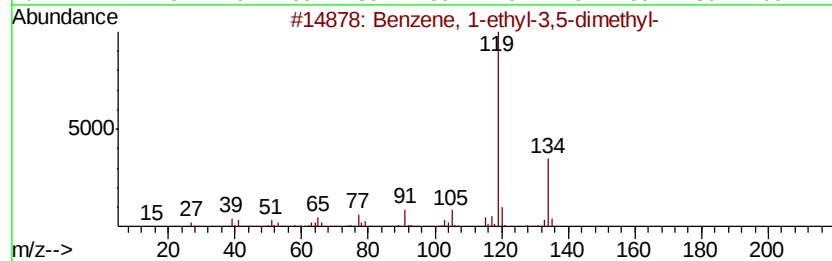
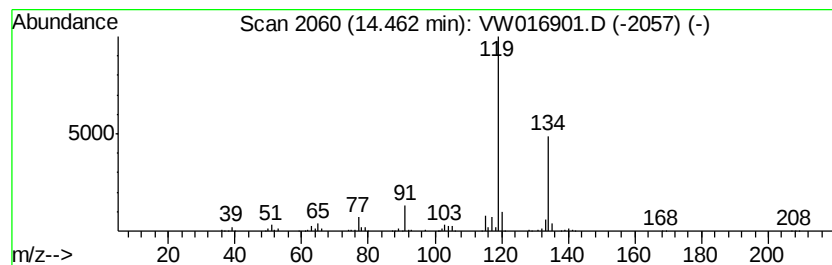
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 38 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 20

| R.T.      | EstConc                        | Area   | Relative to ISTD       | R.T.        |      |
|-----------|--------------------------------|--------|------------------------|-------------|------|
| 14.46     | 35.50 ug/L                     | 427817 | 1,4-Dichlorobenzene-d4 | 13.57       |      |
| Hit# of 5 | Tentative ID                   | MW     | MolForm                | CAS#        | Qual |
| 1         | Benzene, 1-ethyl-3,5-dimethyl- | 134    | C10H14                 | 000934-74-7 | 94   |
| 2         | o-Cymene                       | 134    | C10H14                 | 000527-84-4 | 93   |
| 3         | Benzene, 1,2,3,4-tetramethyl-  | 134    | C10H14                 | 000488-23-3 | 91   |
| 4         | Benzene, 1,2,3,5-tetramethyl-  | 134    | C10H14                 | 000527-53-7 | 91   |
| 5         | Benzene, 1-ethyl-2,3-dimethyl- | 134    | C10H14                 | 000933-98-2 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

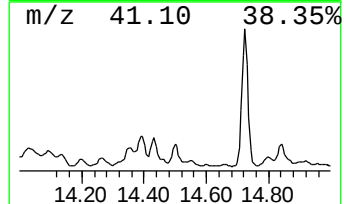
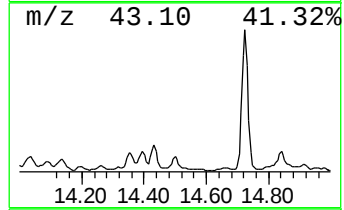
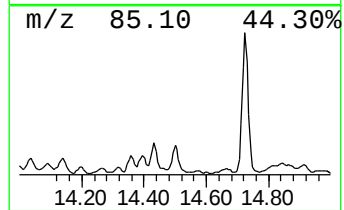
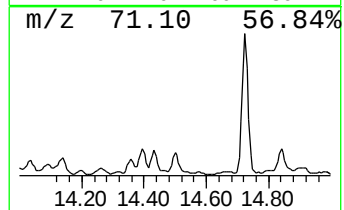
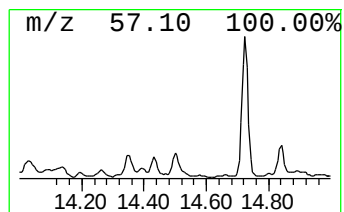
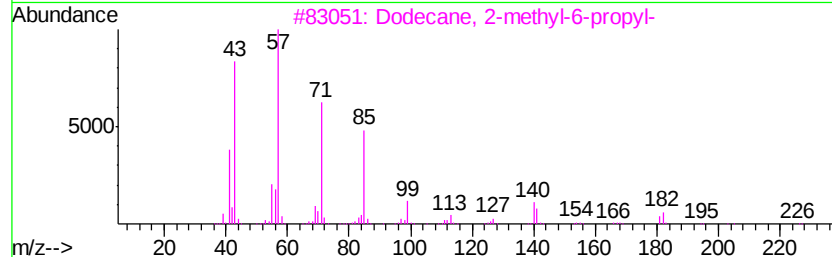
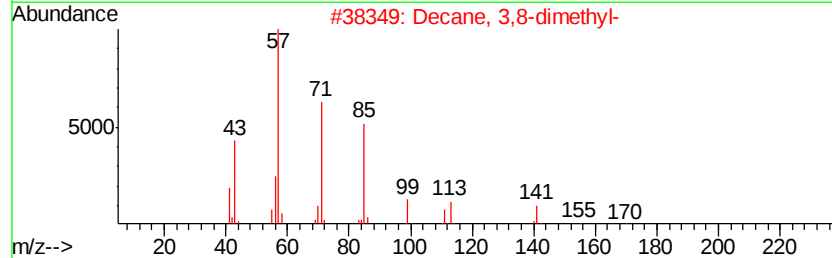
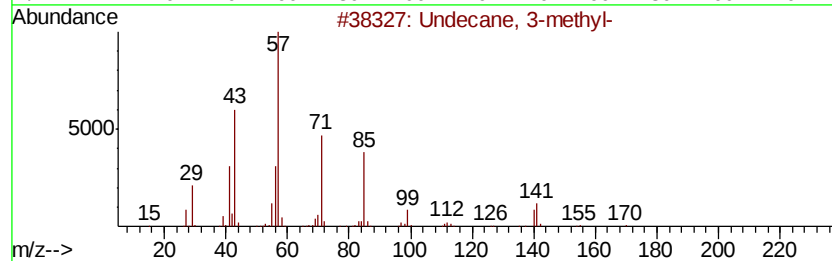
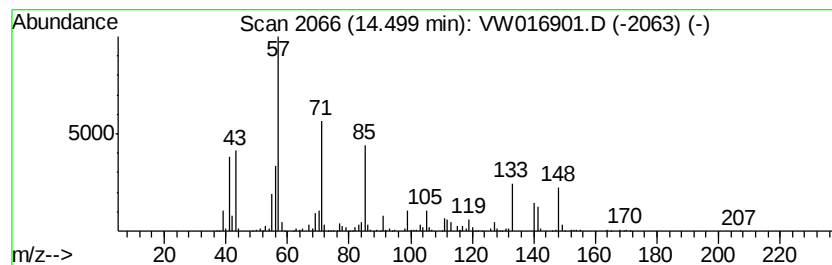
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 39 (DEL) Alkane: Straight-Chai... Concentration Rank 27

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.50 | 26.61 ug/L | 320680 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------|-----|---------|-------------|------|
| 1    |    |   | Undecane, 3-methyl-          | 170 | C12H26  | 001002-43-3 | 81   |
| 2    |    |   | Decane, 3,8-dimethyl-        | 170 | C12H26  | 017312-55-9 | 70   |
| 3    |    |   | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 53   |
| 4    |    |   | Decane, 3,6-dimethyl-        | 170 | C12H26  | 017312-53-7 | 52   |
| 5    |    |   | Nonadecane, 9-methyl-        | 282 | C20H42  | 013287-24-6 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW01520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

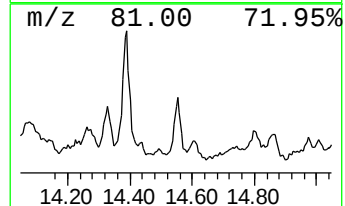
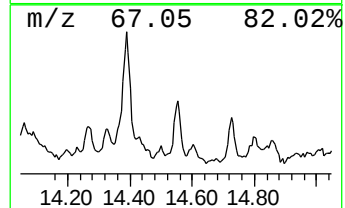
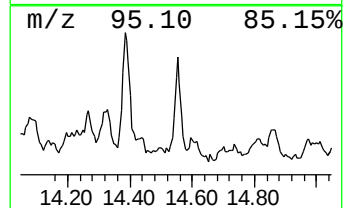
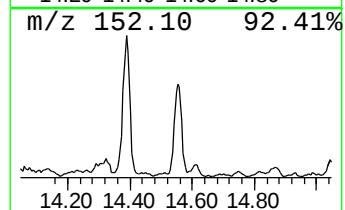
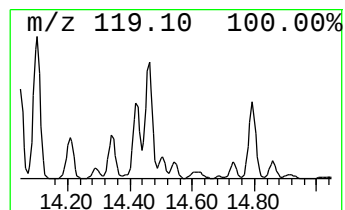
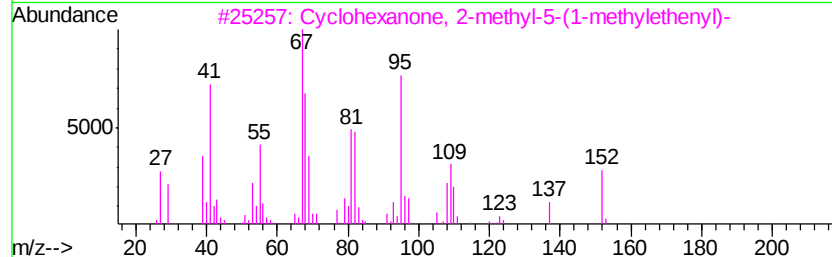
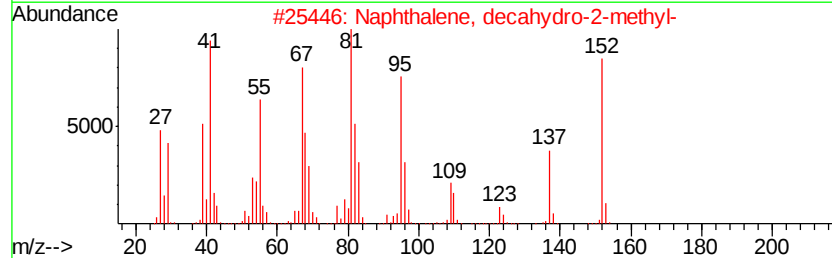
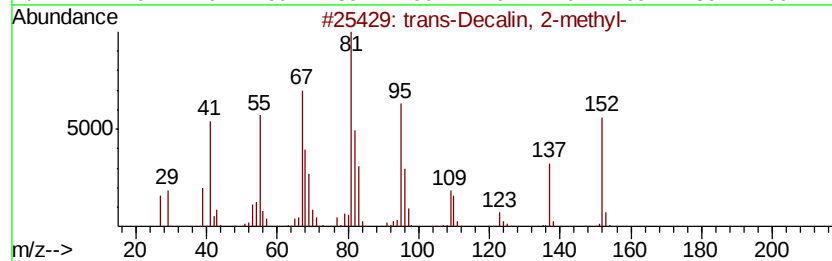
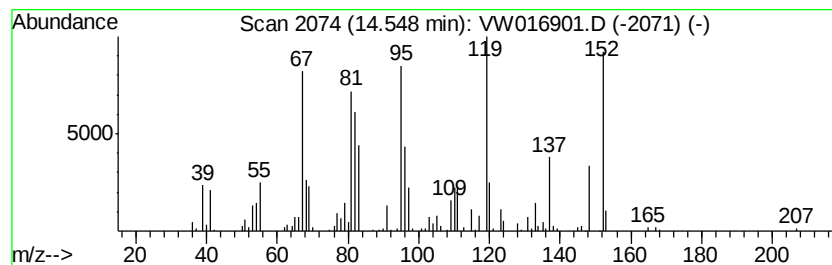
Instrument :  
MSVOA\_W  
ClientSampled :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 40 trans-Decalin, 2-methyl- Concentration Rank 45

| R.T.    | EstConc                                        | Area         | Relative to ISTD       | R.T.      |
|---------|------------------------------------------------|--------------|------------------------|-----------|
| 14.55   | 11.43 ug/L                                     | 137750       | 1,4-Dichlorobenzene-d4 | 13.57     |
| Hit# of | 5                                              | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | trans-Decalin, 2-methyl-                       | 152 C11H20   | 1000152-47-3           | 86        |
| 2       | Naphthalene, decahydro-2-methyl-               | 152 C11H20   | 002958-76-1            | 62        |
| 3       | Cyclohexanone, 2-methyl-5-(1-methyl-2-phenyl-) | 152 C10H16O  | 007764-50-3            | 49        |
| 4       | Decalin, anti-1-methyl-, cis-                  | 152 C11H20   | 1000158-89-0           | 45        |
| 5       | Bicyclo[4.1.0]heptan-3-one, 4,7,...            | 152 C10H16O  | 004176-01-6            | 43        |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

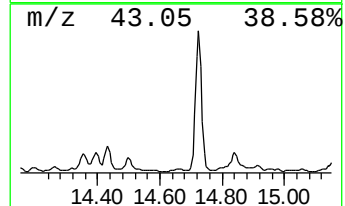
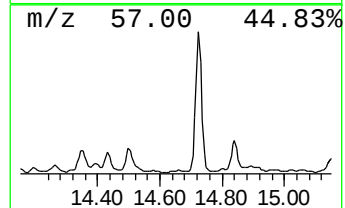
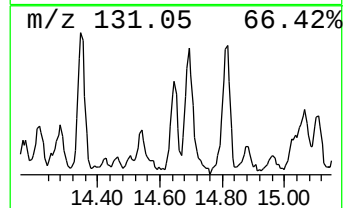
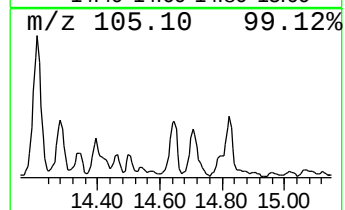
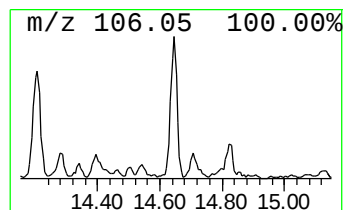
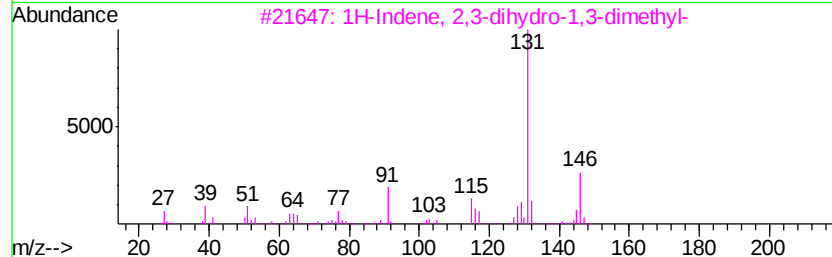
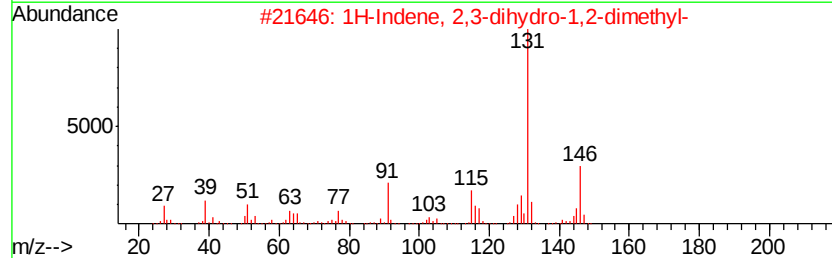
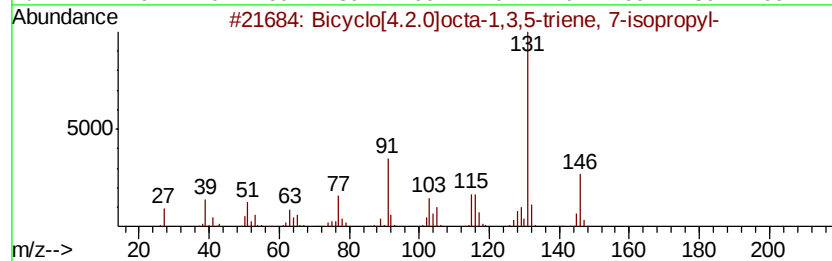
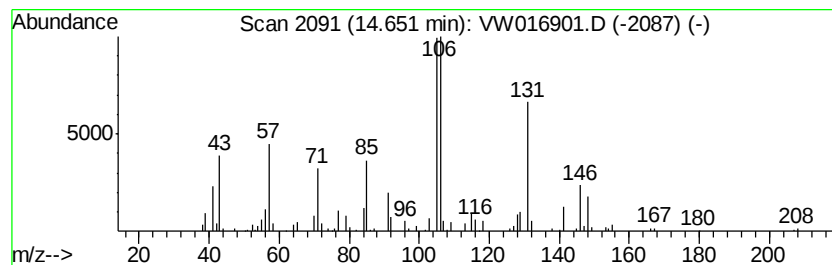
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 41 unknown-01 Concentration Rank 56

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.65 | 3.63 ug/L | 43691 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Bicyclo[4.2.0]octa-1,3,5-triene,... | 146 | C11H14  | 027087-54-3 | 38   |
| 2    |    | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14  | 017057-82-8 | 35   |
| 3    |    | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14  | 004175-53-5 | 35   |
| 4    |    | Benzene, 1-methyl-3-(1-methyl-2-... | 146 | C11H14  | 052161-57-6 | 30   |
| 5    |    | Benzene, (3-methyl-2-butenyl)-      | 146 | C11H14  | 004489-84-3 | 30   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

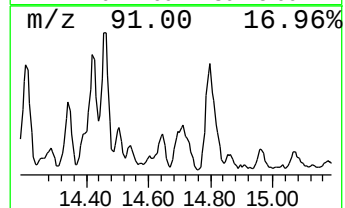
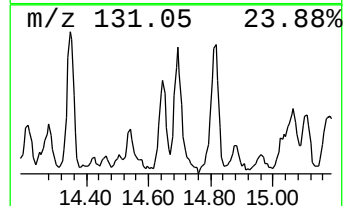
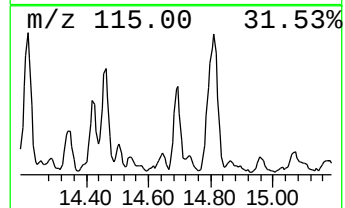
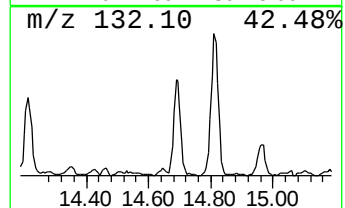
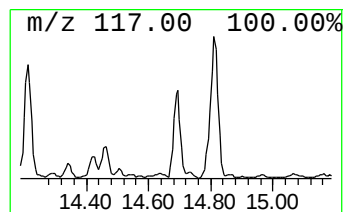
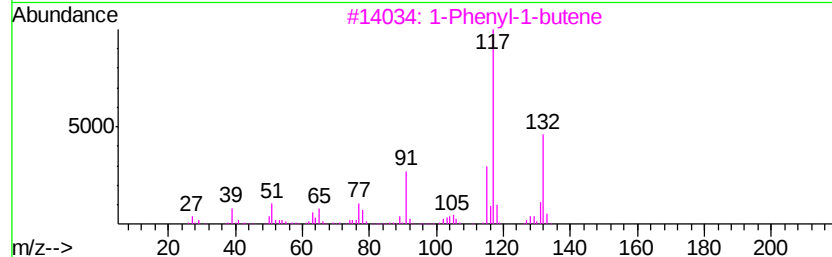
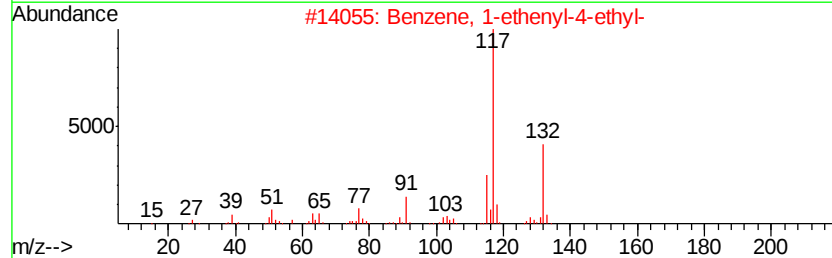
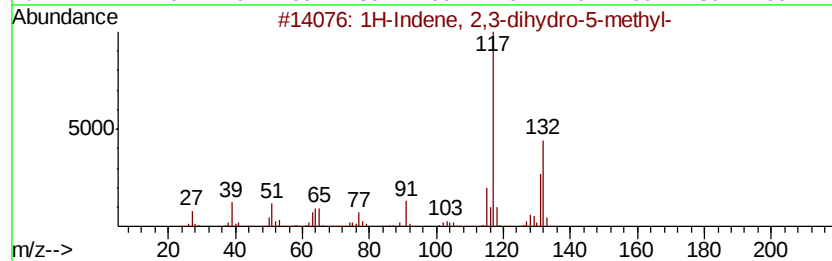
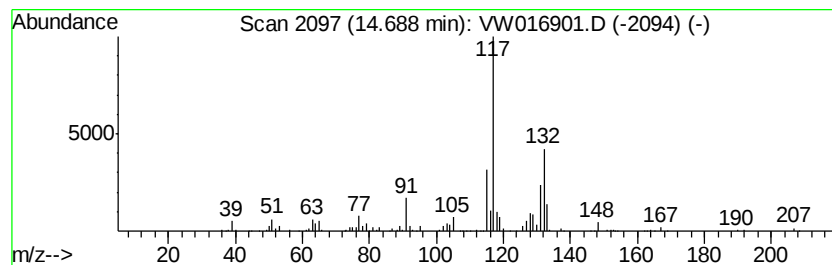
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 42 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 50

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.69 | 8.31 ug/L | 100117 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12  | 000874-35-1 | 90   |
| 2    |    | Benzene, 1-ethenyl-4-ethyl-      | 132 | C10H12  | 003454-07-7 | 87   |
| 3    |    | 1-Phenyl-1-butene                | 132 | C10H12  | 000824-90-8 | 87   |
| 4    |    | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12  | 000824-22-6 | 86   |
| 5    |    | Benzene, (2-methyl-1-propenyl)-  | 132 | C10H12  | 000768-49-0 | 80   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

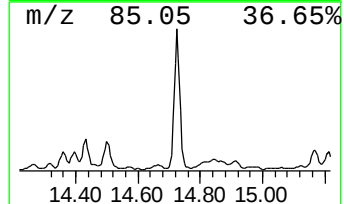
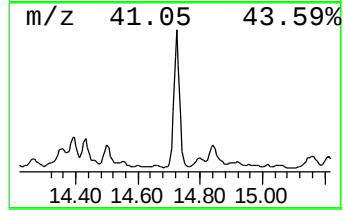
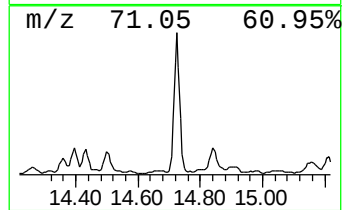
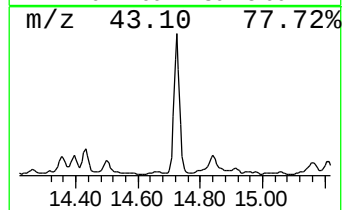
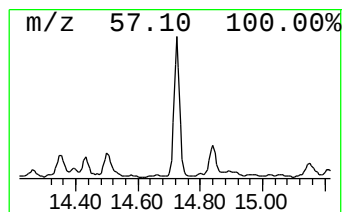
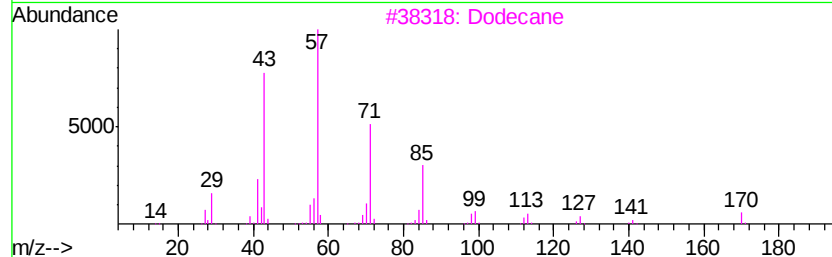
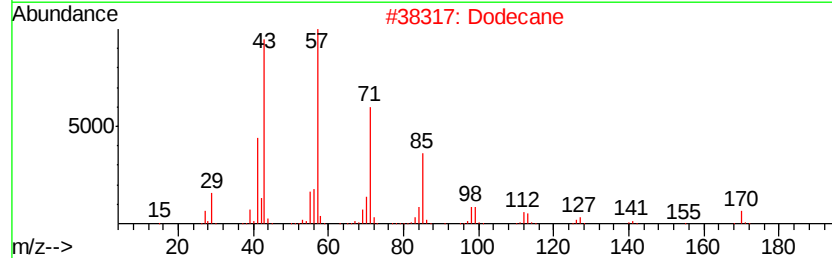
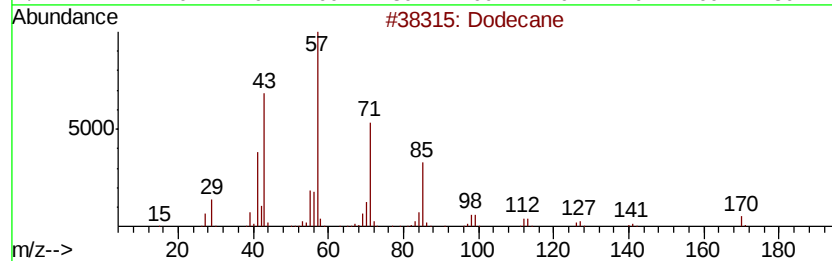
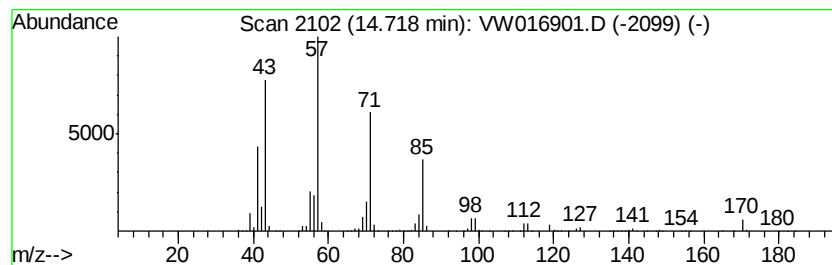
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 43 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 14.72 | 115.45 ug/L | 1391240 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane     | 170 | C12H26  | 000112-40-3 | 97   |
| 2    |    | Dodecane     | 170 | C12H26  | 000112-40-3 | 93   |
| 3    |    | Dodecane     | 170 | C12H26  | 000112-40-3 | 93   |
| 4    |    | Dodecane     | 170 | C12H26  | 000112-40-3 | 86   |
| 5    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 86   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

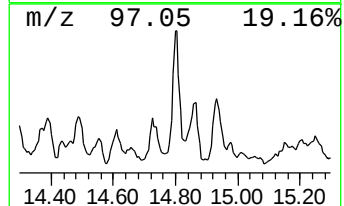
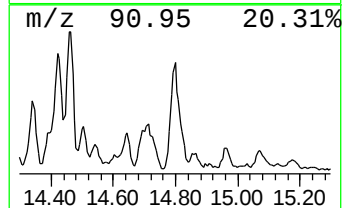
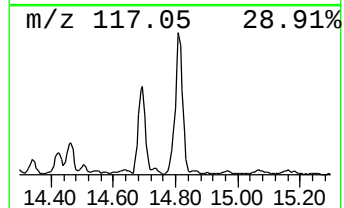
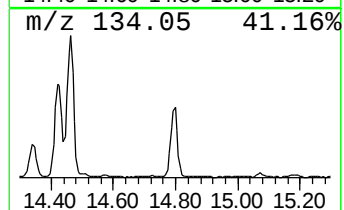
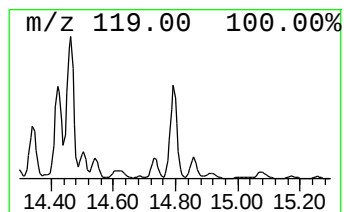
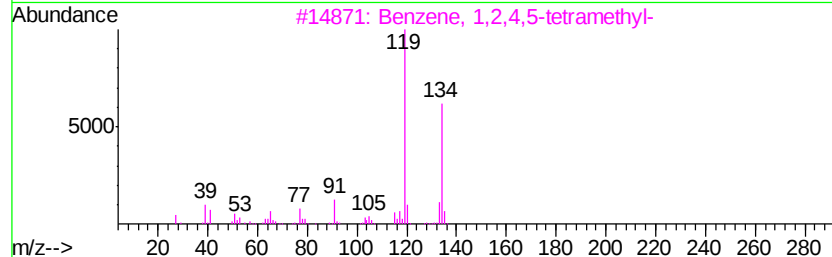
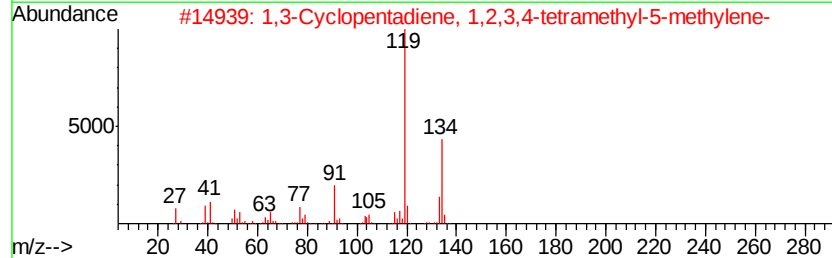
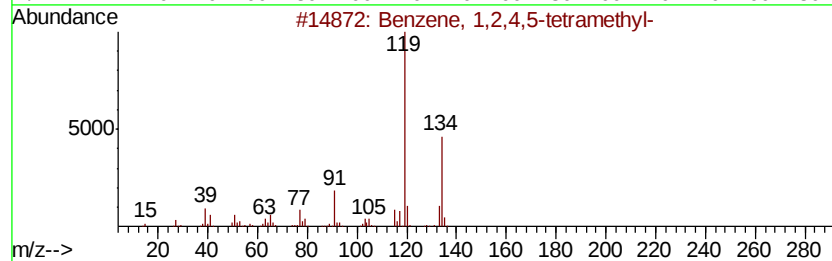
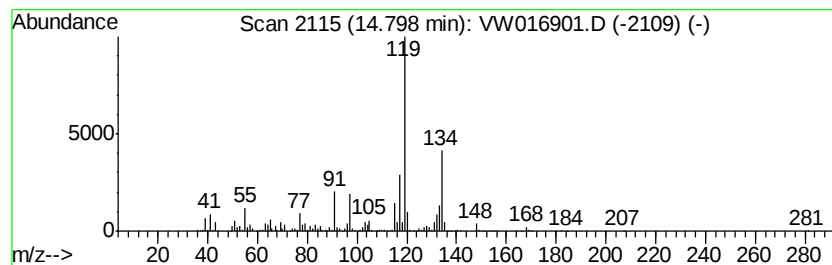
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 44 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.80 | 49.34 ug/L | 594545 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,4,5-tetramethyl-       | 134 | C10H14  | 000095-93-2 | 95   |
| 2    |    | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14  | 076089-59-3 | 93   |
| 3    |    | Benzene, 1,2,4,5-tetramethyl-       | 134 | C10H14  | 000095-93-2 | 76   |
| 4    |    | Benzene, 1,2,3,4-tetramethyl-       | 134 | C10H14  | 000488-23-3 | 76   |
| 5    |    | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 76   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

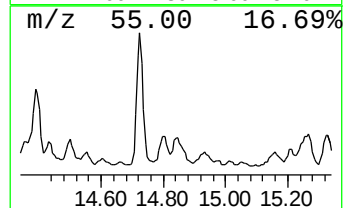
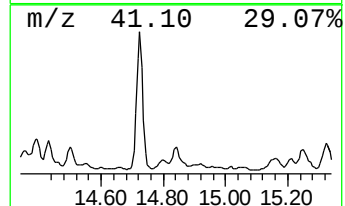
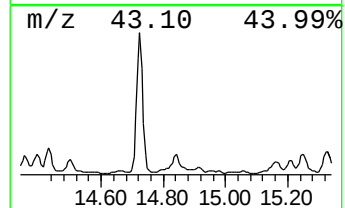
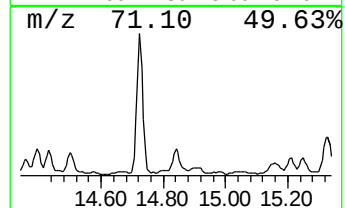
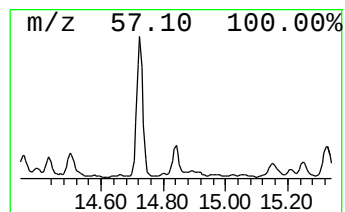
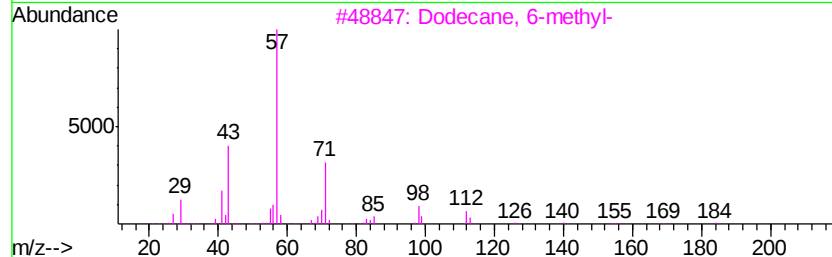
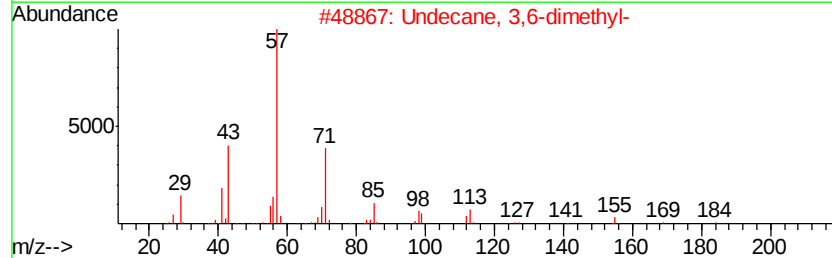
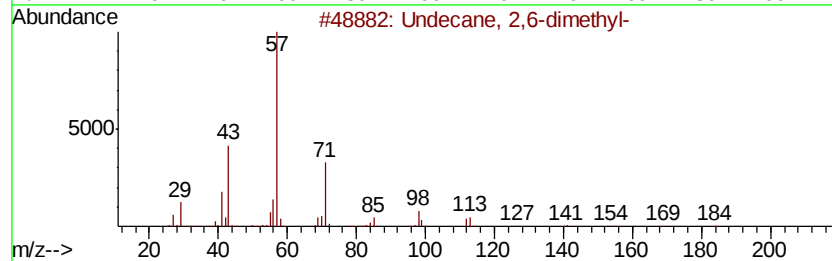
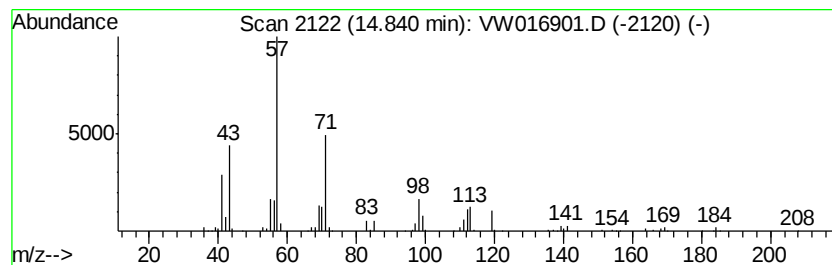
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 45 (DEL) Alkane: Straight-Chai... Concentration Rank 29

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.84 | 24.75 ug/L | 298260 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                      | MW  | MolForm   | CAS#         | Qual |
|------|----|-----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Undecane, 2,6-dimethyl-           | 184 | C13H28    | 017301-23-4  | 68   |
| 2    |    | Undecane, 3,6-dimethyl-           | 184 | C13H28    | 017301-28-9  | 64   |
| 3    |    | Dodecane, 6-methyl-               | 184 | C13H28    | 006044-71-9  | 58   |
| 4    |    | Undecane, 2,5-dimethyl-           | 184 | C13H28    | 017301-22-3  | 55   |
| 5    |    | Sulfurous acid, butyl octyl ester | 250 | C12H26O3S | 1000309-17-5 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

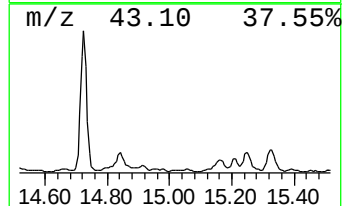
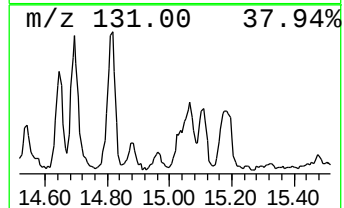
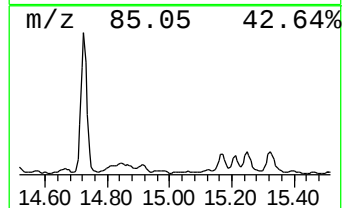
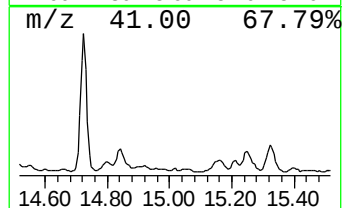
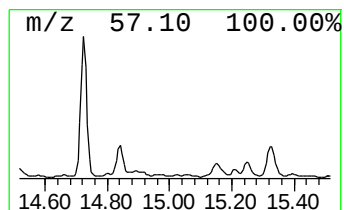
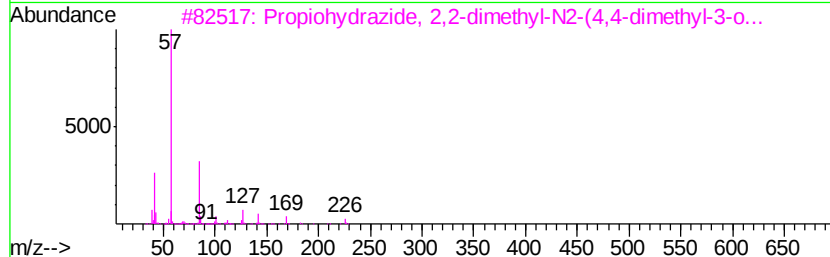
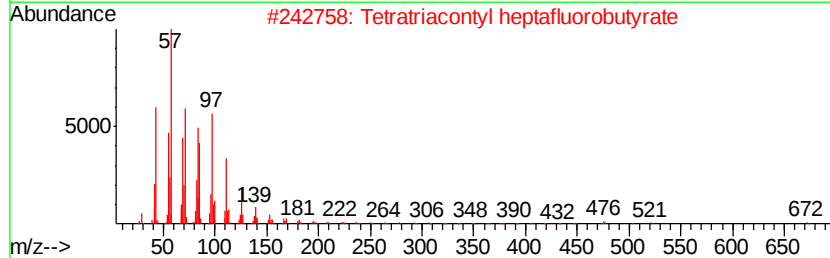
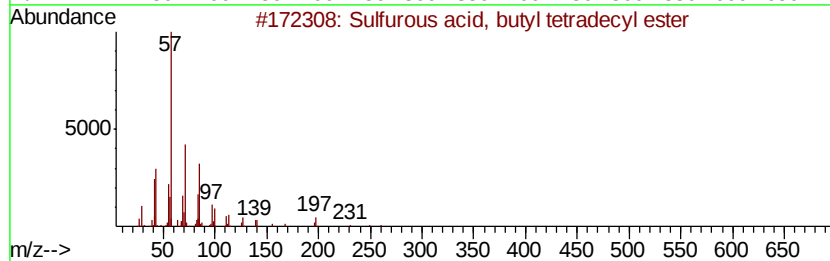
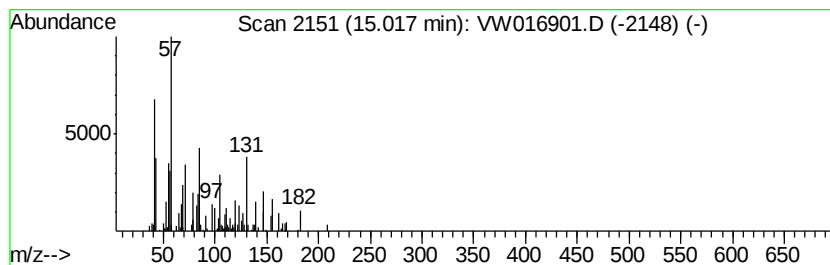
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 46 unknown-02 Concentration Rank 57

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.02 | 1.78 ug/L | 21413 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | Sulfurous acid, butyl tetradecyl... | 334 | C18H38O3S  | 1000309-18-1 | 22   |
| 2    |    |   | Tetratriacontyl heptafluorobutyrate | 691 | C38H69F7O2 | 1000351-84-1 | 16   |
| 3    |    |   | Propiohydrazide, 2,2-dimethyl-N2... | 226 | C12H22N2O2 | 1000264-71-8 | 14   |
| 4    |    |   | Tetradecane, 2,6,10-trimethyl-      | 240 | C17H36     | 014905-56-7  | 12   |
| 5    |    |   | Hentriacontane                      | 437 | C31H64     | 000630-04-6  | 12   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW016901.D  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

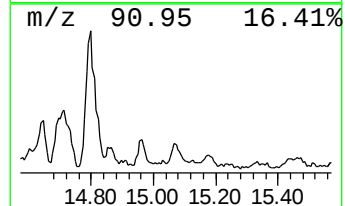
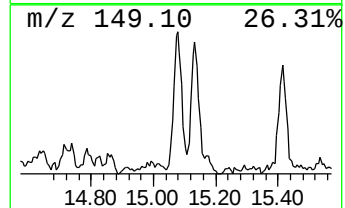
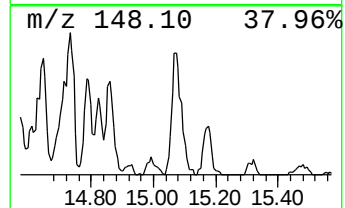
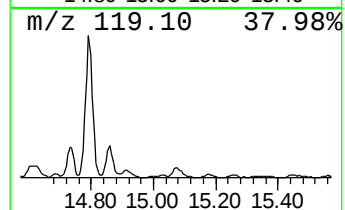
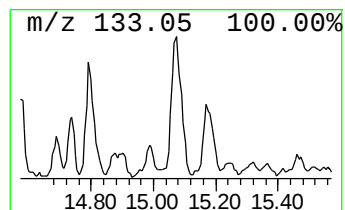
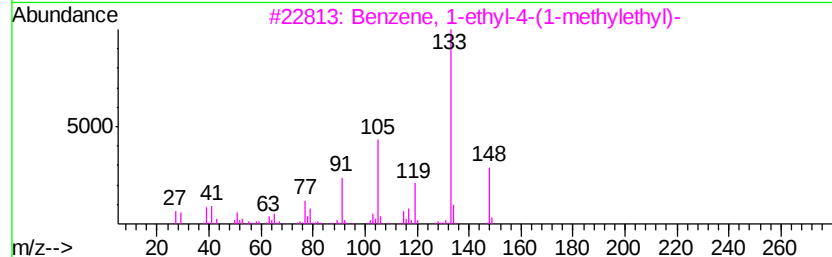
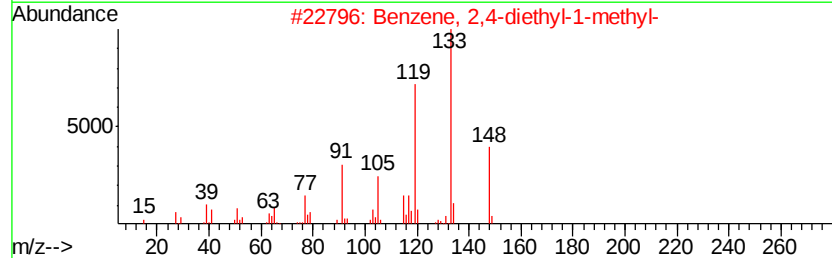
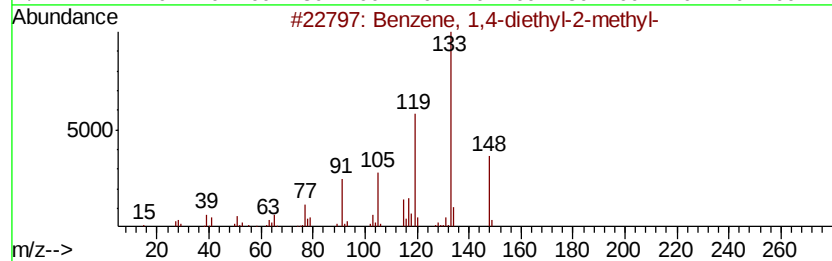
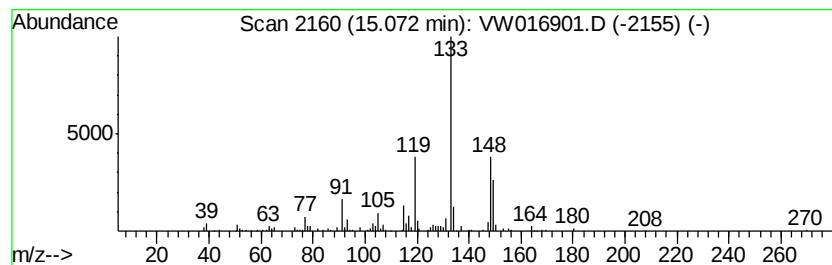
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 47 Benzene, 1,4-diethyl-2-methyl- Concentration Rank 51

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.07 | 7.20 ug/L | 86805 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,4-diethyl-2-methyl-      | 148 | C11H16  | 013632-94-5 | 87   |
| 2    |    | Benzene, 2,4-diethyl-1-methyl-      | 148 | C11H16  | 001758-85-6 | 83   |
| 3    |    | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16  | 004218-48-8 | 80   |
| 4    |    | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16  | 004218-48-8 | 80   |
| 5    |    | Benzene, 1,3-dimethyl-5-(1-methy... | 148 | C11H16  | 004706-90-5 | 76   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
 Data File : VW016901.D  
 Acq On : 14 Oct 2020 13:36  
 Operator : SY/VA  
 Sample : L4382-11  
 Misc : 5.53G/10ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis

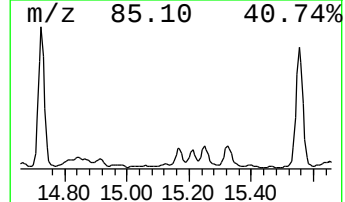
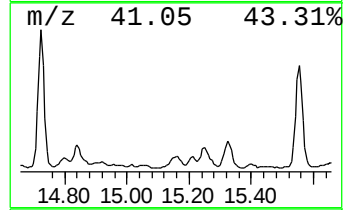
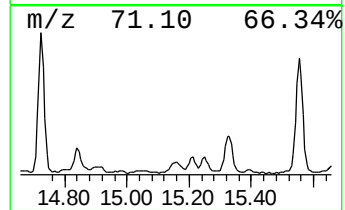
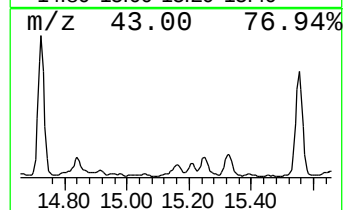
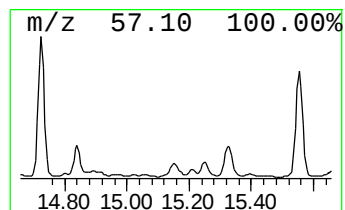
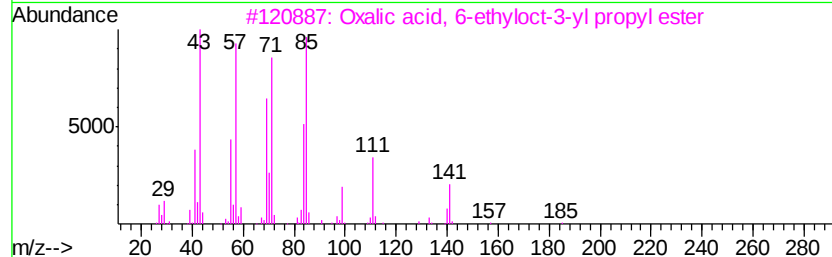
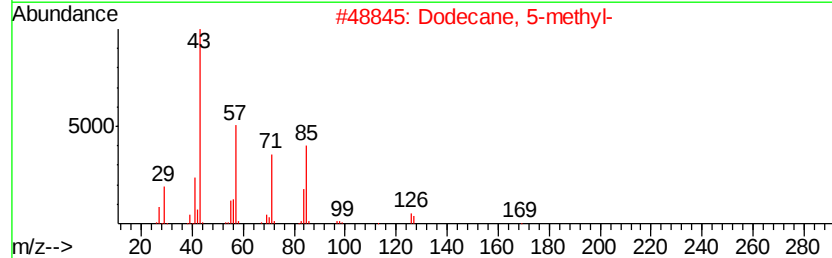
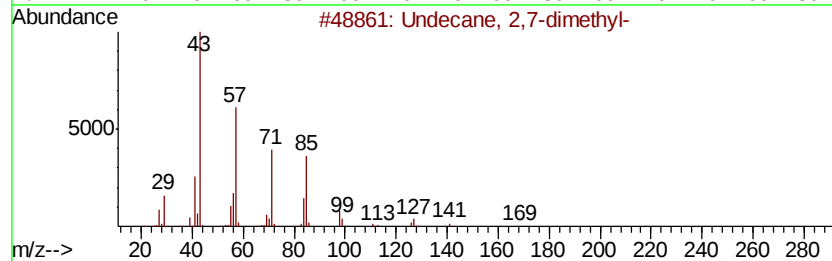
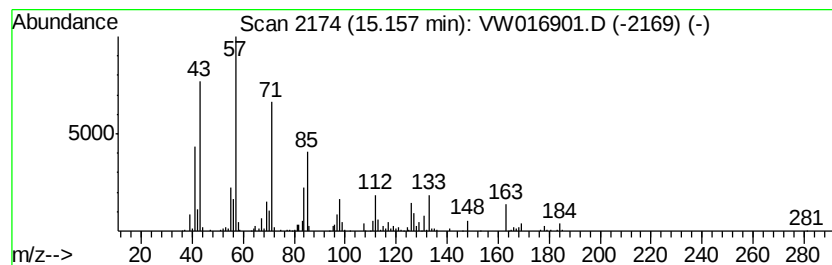
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 48 (DEL) Alkane: Straight-Chai... Concentration Rank 35

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.16 | 18.89 ug/L | 227684 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Undecane, 2,7-dimethyl-             | 184 | C13H28   | 017301-24-5  | 53   |
| 2    |    | Dodecane, 5-methyl-                 | 184 | C13H28   | 017453-93-9  | 53   |
| 3    |    | Oxalic acid, 6-ethyloct-3-yl pro... | 272 | C15H28O4 | 1000309-34-0 | 50   |
| 4    |    | Tridecane, 5-methyl-                | 198 | C14H30   | 025117-31-1  | 50   |
| 5    |    | Heptane, 4,4-dimethyl-              | 128 | C9H20    | 001068-19-5  | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
 Data File : VW016901.D  
 Acq On : 14 Oct 2020 13:36  
 Operator : SY/VA  
 Sample : L4382-11  
 Misc : 5.53G/10ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis

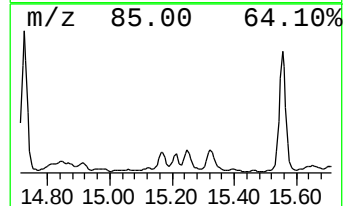
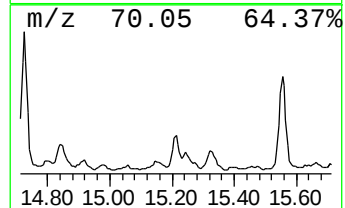
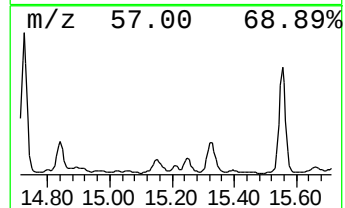
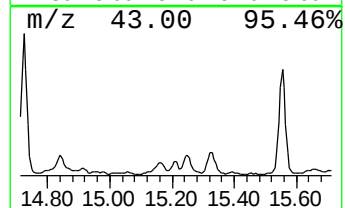
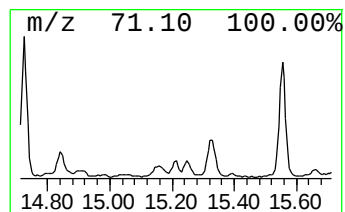
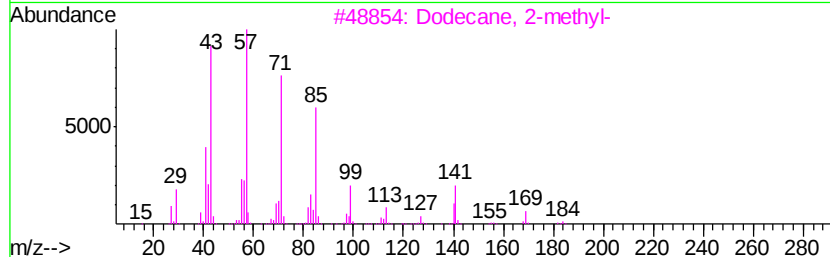
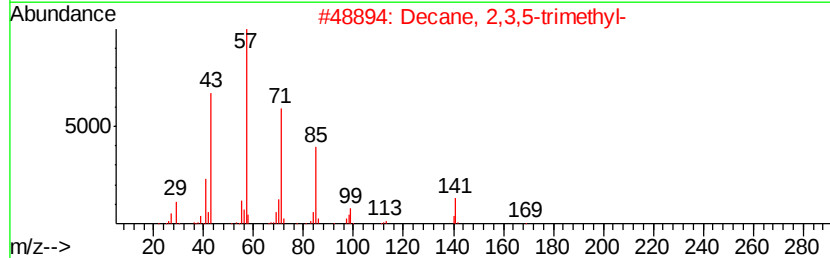
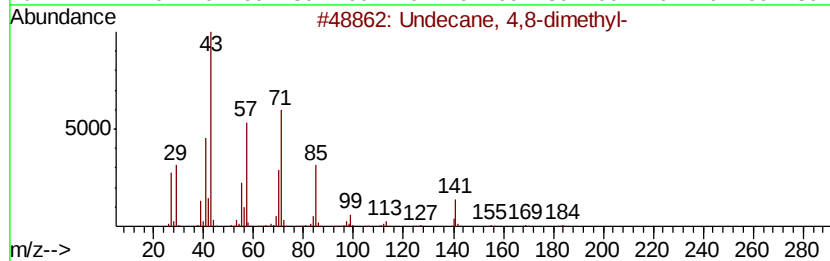
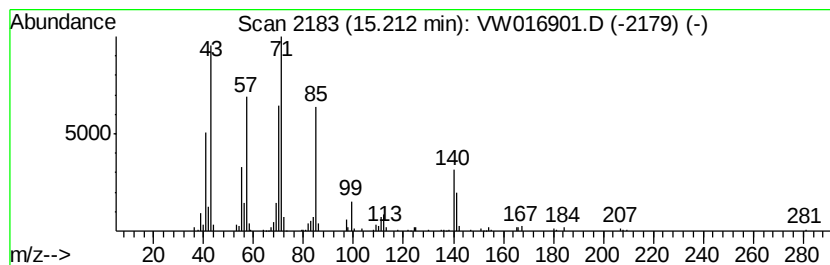
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 49 (DEL) Alkane: Straight-Chai... Concentration Rank 41

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.21 | 13.33 ug/L | 160675 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Undecane, 4,8-dimethyl-             | 184 | C13H28  | 017301-33-6 | 72   |
| 2    |    | Decane, 2,3,5-trimethyl-            | 184 | C13H28  | 062238-11-3 | 59   |
| 3    |    | Dodecane, 2-methyl-                 | 184 | C13H28  | 001560-97-0 | 58   |
| 4    |    | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 58   |
| 5    |    | Dodecane, 4-methyl-                 | 184 | C13H28  | 006117-97-1 | 55   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

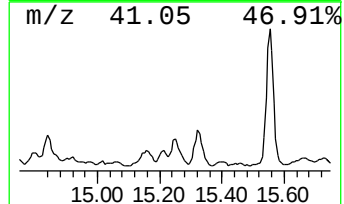
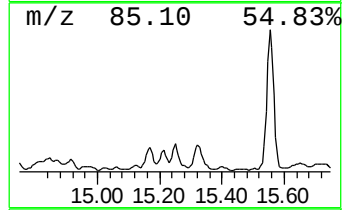
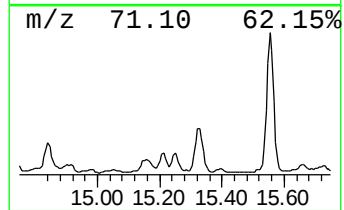
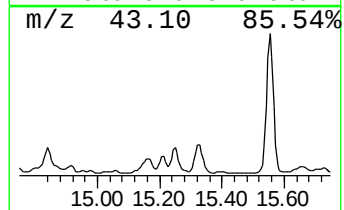
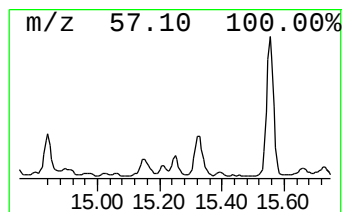
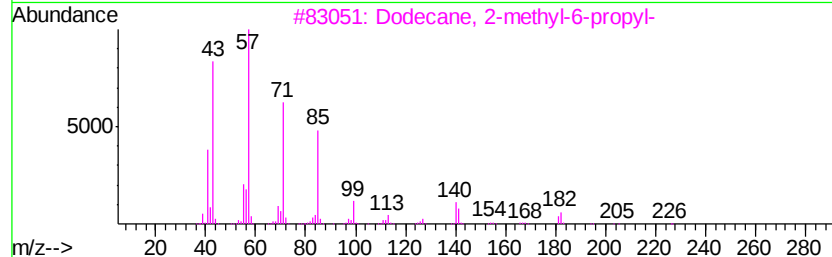
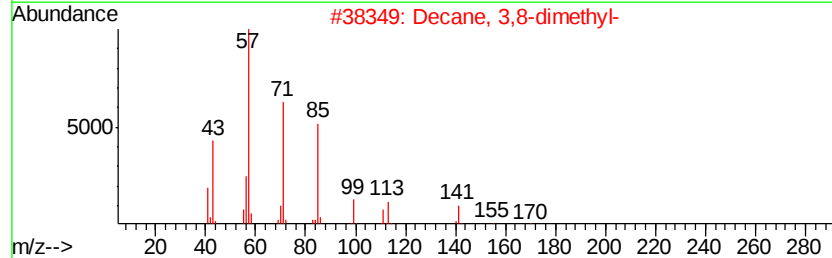
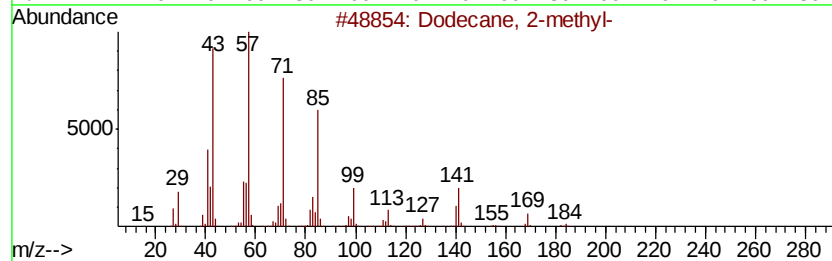
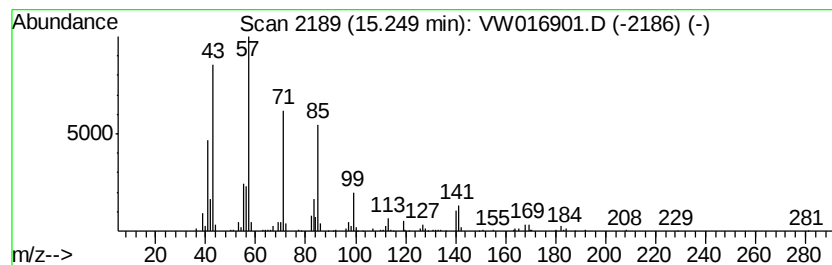
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 50 (DEL) Alkane: Straight-Chai... Concentration Rank 30

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.25 | 22.86 ug/L | 275437 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------|-----|---------|-------------|------|
| 1    |    |   | Dodecane, 2-methyl-          | 184 | C13H28  | 001560-97-0 | 94   |
| 2    |    |   | Decane, 3,8-dimethyl-        | 170 | C12H26  | 017312-55-9 | 83   |
| 3    |    |   | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 80   |
| 4    |    |   | Decane, 4-ethyl-             | 170 | C12H26  | 001636-44-8 | 72   |
| 5    |    |   | Decane, 3,6-dimethyl-        | 170 | C12H26  | 017312-53-7 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW01520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

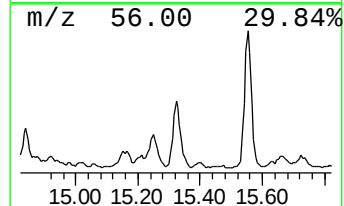
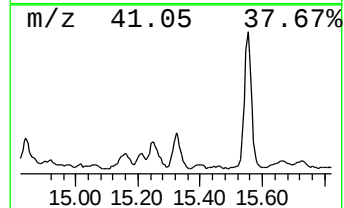
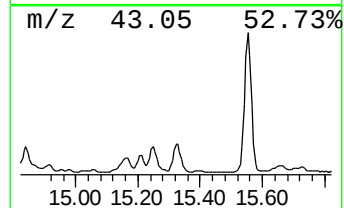
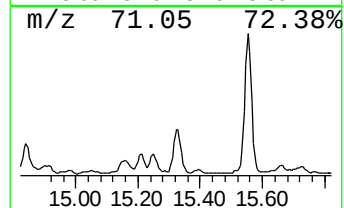
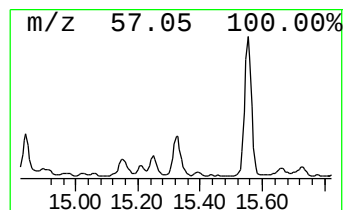
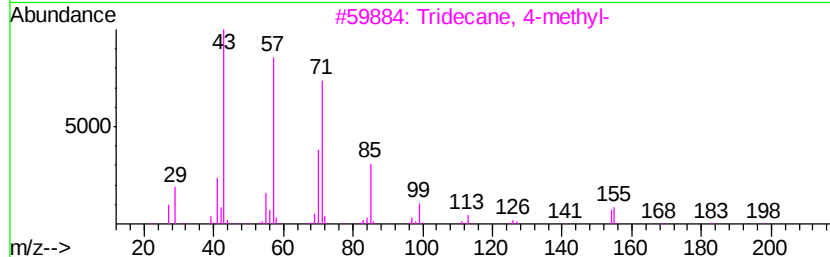
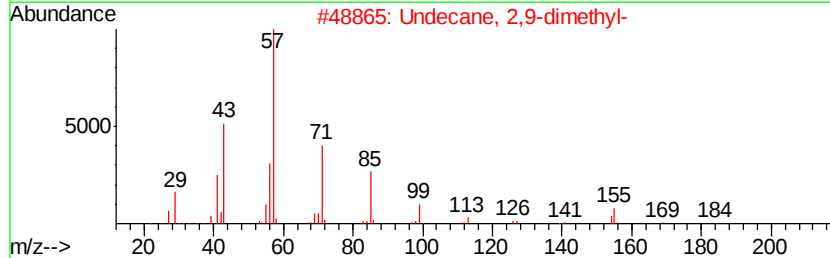
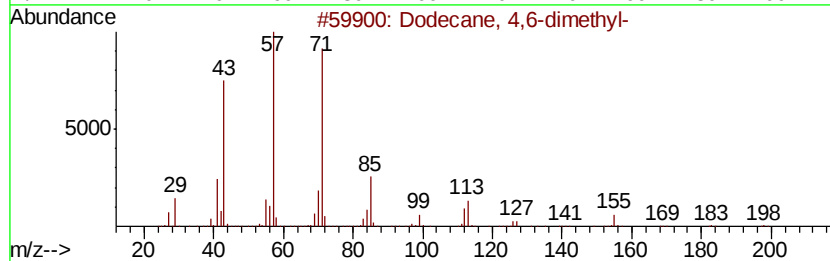
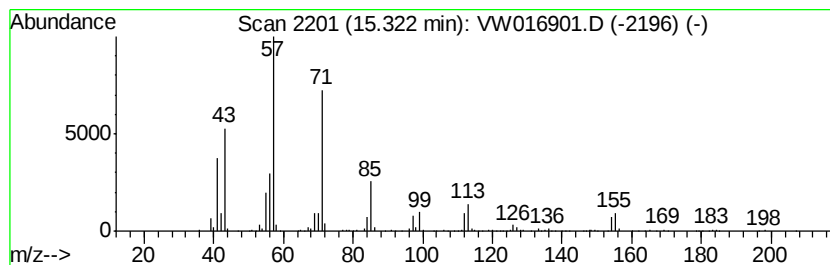
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 51 (DEL) Alkane: Straight-Chai... Concentration Rank 24

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.32 | 29.43 ug/L | 354638 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane, 4,6-dimethyl- | 198 | C14H30  | 061141-72-8 | 91   |
| 2    |    | Undecane, 2,9-dimethyl- | 184 | C13H28  | 017301-26-7 | 80   |
| 3    |    | Tridecane, 4-methyl-    | 198 | C14H30  | 026730-12-1 | 76   |
| 4    |    | Tridecane, 2-methyl-    | 198 | C14H30  | 001560-96-9 | 72   |
| 5    |    | Decane, 2-methyl-       | 156 | C11H24  | 006975-98-0 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

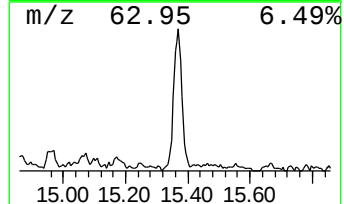
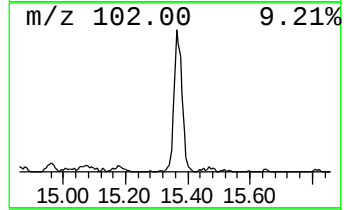
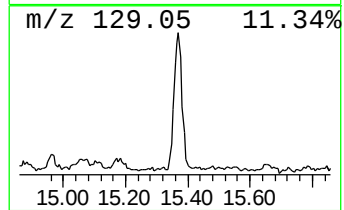
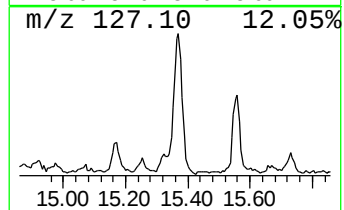
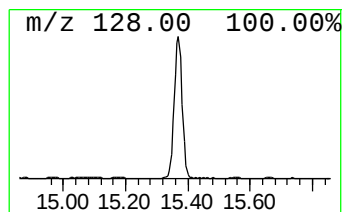
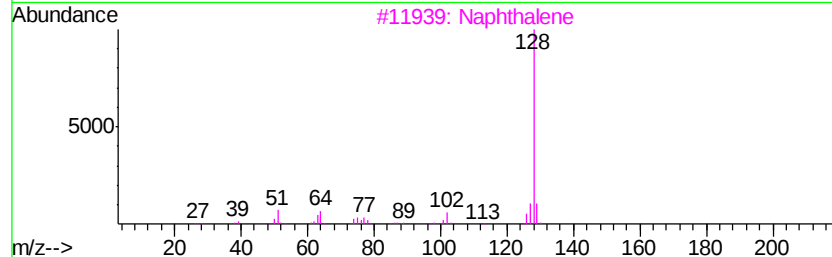
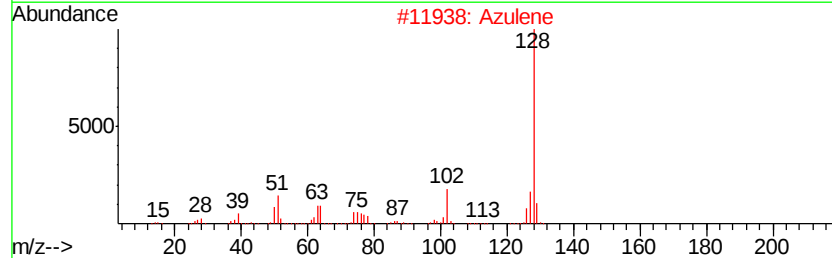
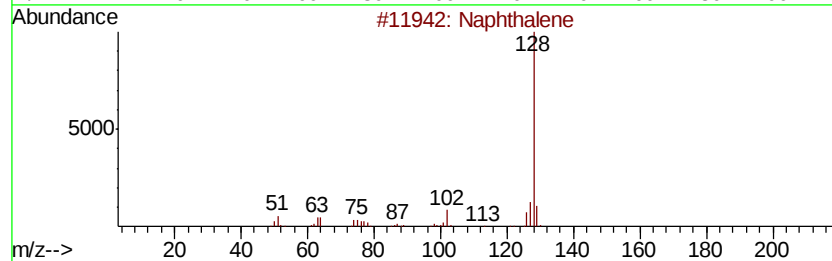
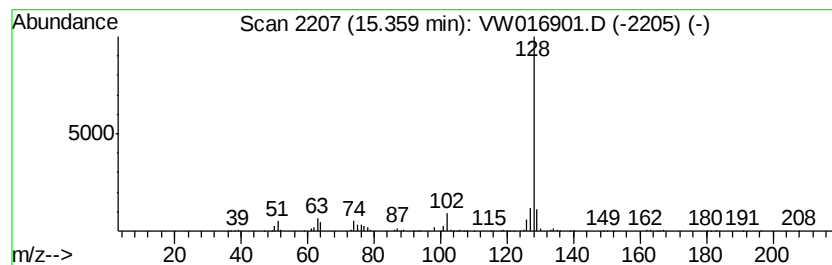
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 52 Azulene Concentration Rank 32

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.36 | 20.50 ug/L | 247079 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------|-----|---------|-------------|------|
| 1       |   | Naphthalene  | 128 | C10H8   | 000091-20-3 | 95   |
| 2       |   | Azulene      | 128 | C10H8   | 000275-51-4 | 91   |
| 3       |   | Naphthalene  | 128 | C10H8   | 000091-20-3 | 90   |
| 4       |   | Azulene      | 128 | C10H8   | 000275-51-4 | 90   |
| 5       |   | Azulene      | 128 | C10H8   | 000275-51-4 | 87   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

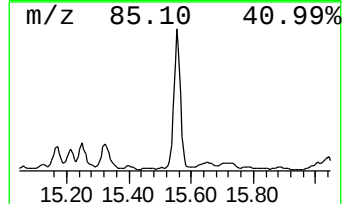
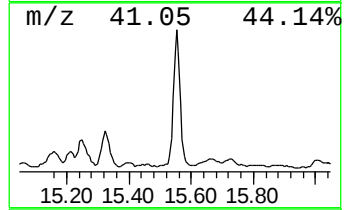
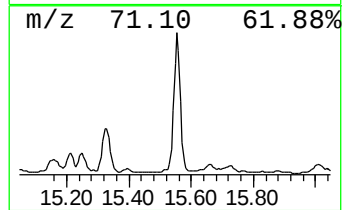
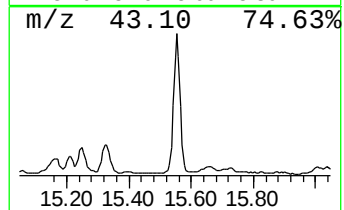
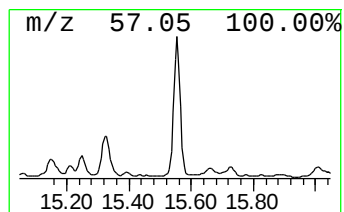
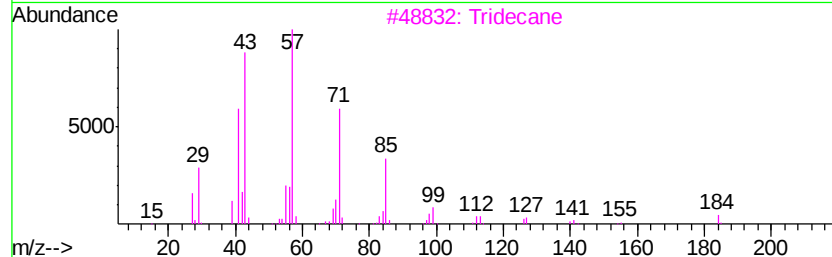
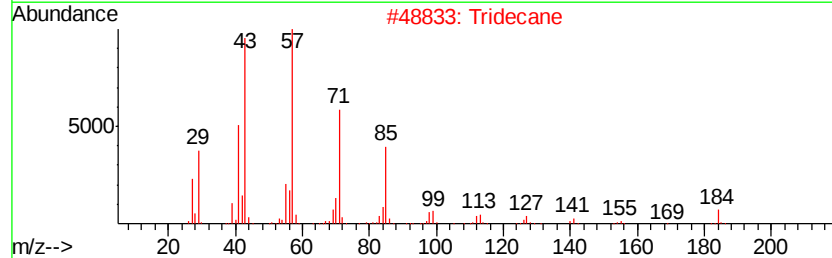
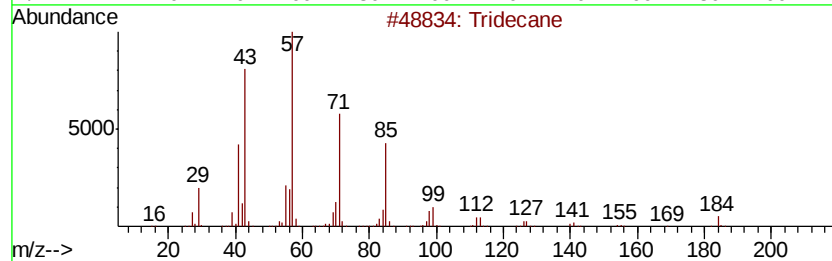
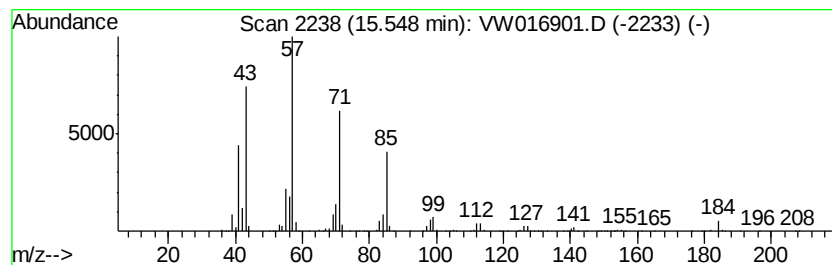
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 53 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 15.55 | 100.47 ug/L | 1210800 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane    | 184 | C13H28  | 000629-50-5 | 98   |
| 2    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 94   |
| 3    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 93   |
| 4    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 90   |
| 5    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 87   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

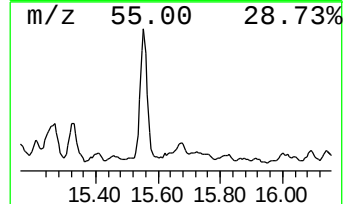
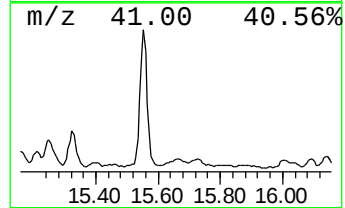
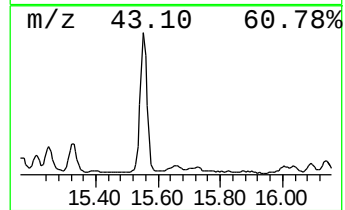
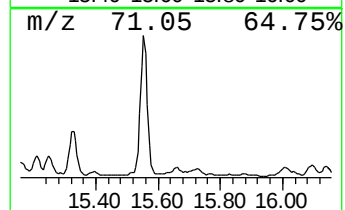
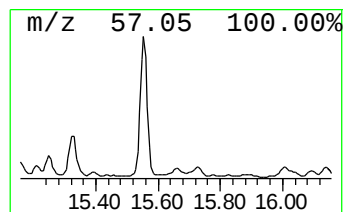
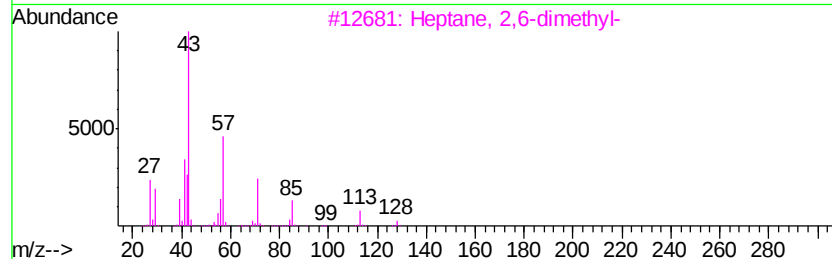
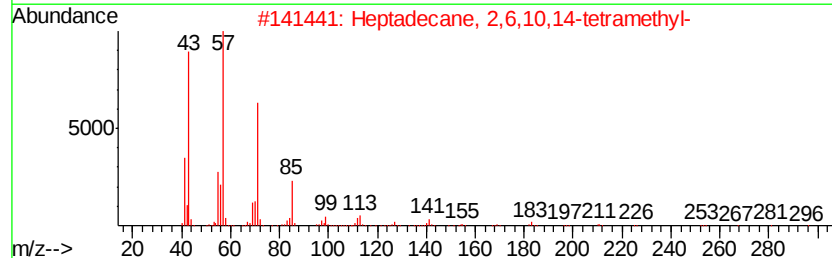
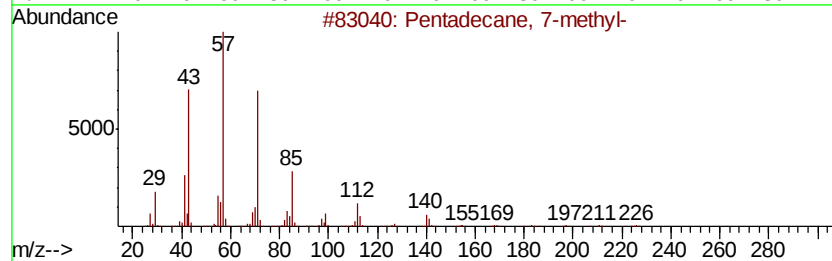
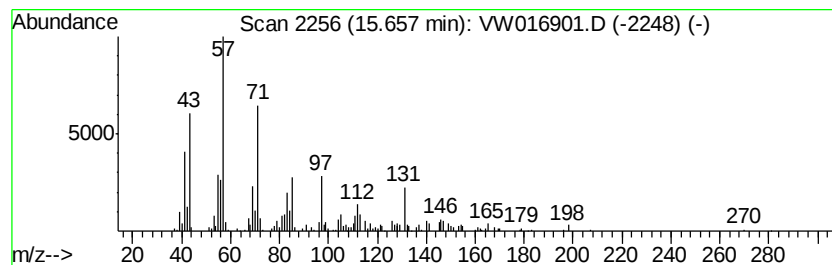
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 54 (DEL) Alkane: Straight-Chai... Concentration Rank 38

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.66 | 15.27 ug/L | 184050 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane, 7-methyl-              | 226 | C16H34  | 006165-40-8 | 50   |
| 2    |    | Heptadecane, 2,6,10,14-tetramethyl- | 296 | C21H44  | 018344-37-1 | 50   |
| 3    |    | Heptane, 2,6-dimethyl-              | 128 | C9H20   | 001072-05-5 | 46   |
| 4    |    | Heptane, 2,6-dimethyl-              | 128 | C9H20   | 001072-05-5 | 46   |
| 5    |    | Nonane, 3-methyl-                   | 142 | C10H22  | 005911-04-6 | 46   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW01520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

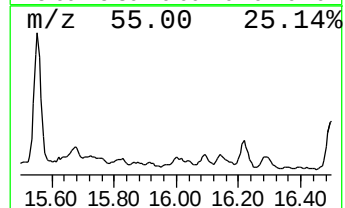
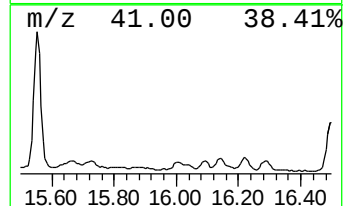
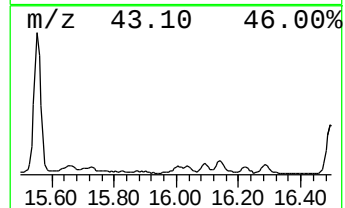
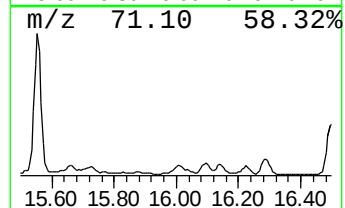
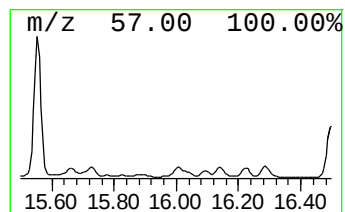
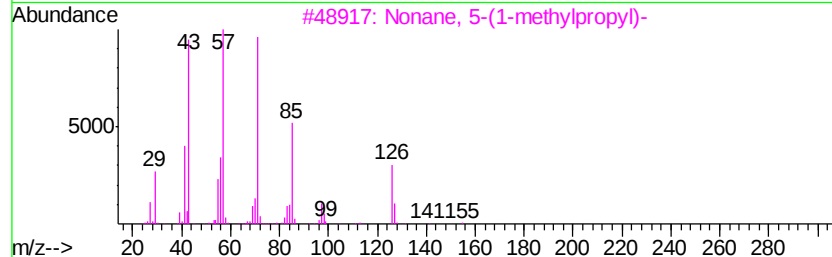
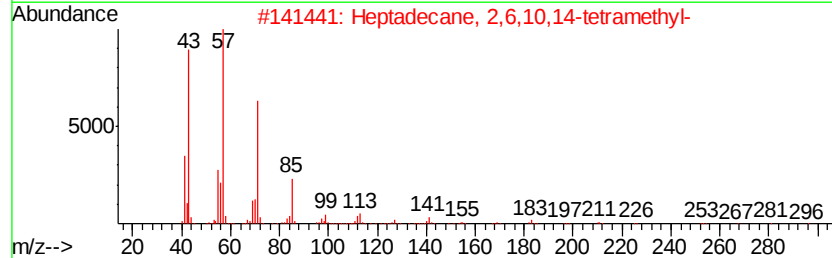
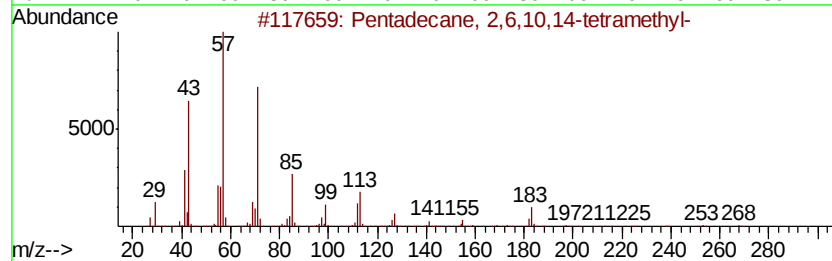
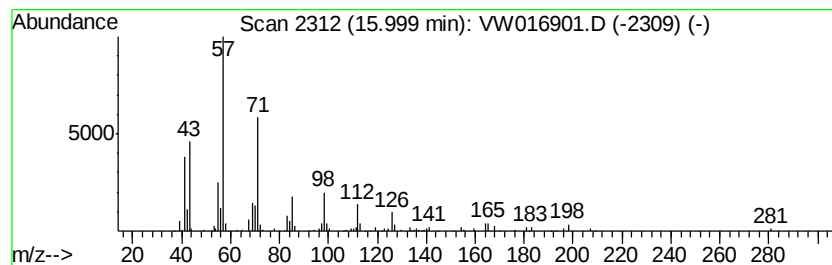
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 55 (DEL) Alkane: Straight-Chai... Concentration Rank 55

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 16.00 | 5.93 ug/L | 71423 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40  | 001921-70-6 | 58   |
| 2    |    |   | Heptadecane, 2,6,10,14-tetramethyl- | 296 | C21H44  | 018344-37-1 | 53   |
| 3    |    |   | Nonane, 5-(1-methylpropyl)-         | 184 | C13H28  | 062185-54-0 | 52   |
| 4    |    |   | Dodecane, 2,6,10-trimethyl-         | 212 | C15H32  | 003891-98-3 | 50   |
| 5    |    |   | Undecane, 2,6-dimethyl-             | 184 | C13H28  | 017301-23-4 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
 Data File : VW016901.D  
 Acq On : 14 Oct 2020 13:36  
 Operator : SY/VA  
 Sample : L4382-11  
 Misc : 5.53G/10ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis

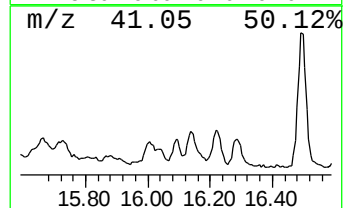
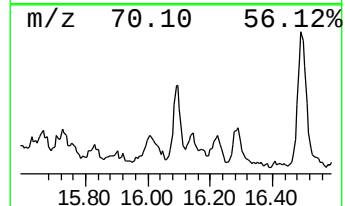
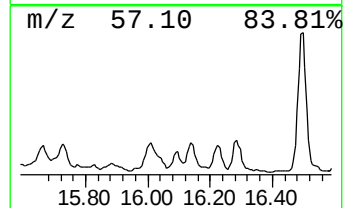
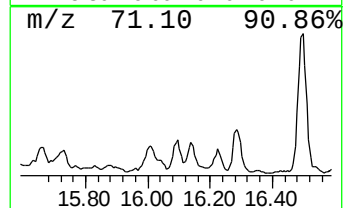
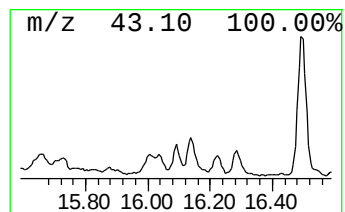
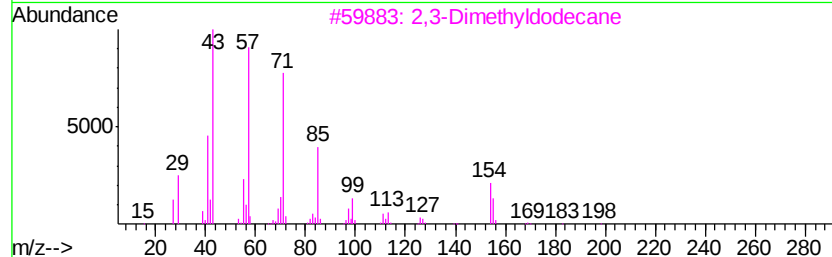
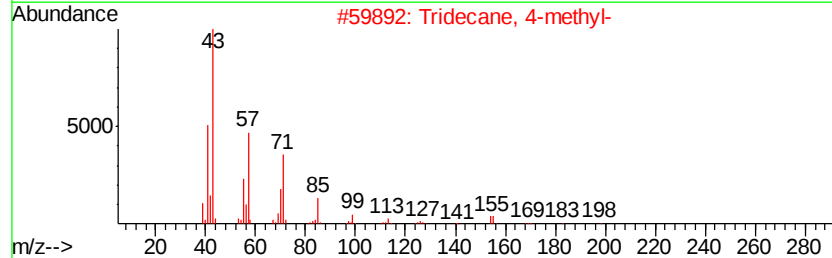
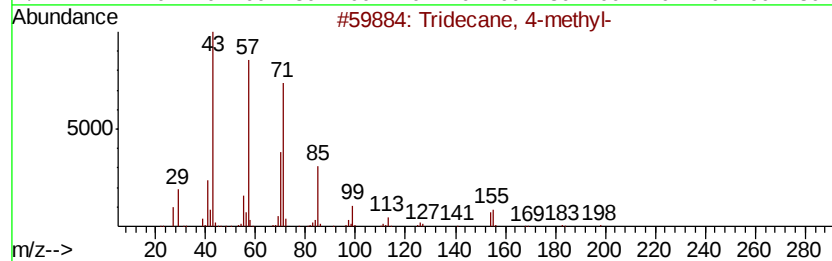
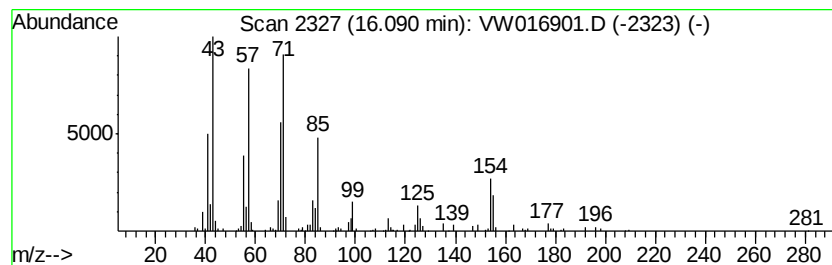
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 56 (DEL) Alkane: Straight-Chai... Concentration Rank 52

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 16.09 | 7.13 ug/L | 85904 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Tridecane, 4-methyl-                | 198 | C14H30   | 026730-12-1  | 81   |
| 2    |    |   | Tridecane, 4-methyl-                | 198 | C14H30   | 026730-12-1  | 80   |
| 3    |    |   | 2,3-Dimethyldodecane                | 198 | C14H30   | 006117-98-2  | 53   |
| 4    |    |   | Oxalic acid, 2-ethylhexyl ethyl ... | 230 | C12H22O4 | 1000309-38-4 | 47   |
| 5    |    |   | Hexadecane                          | 226 | C16H34   | 000544-76-3  | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

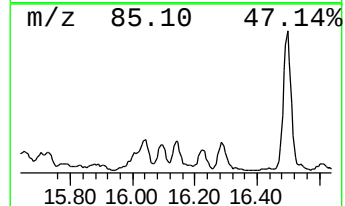
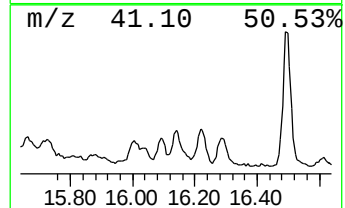
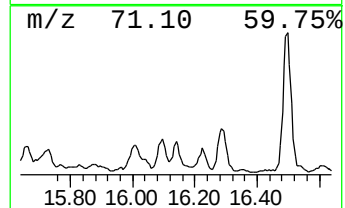
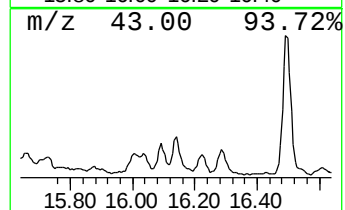
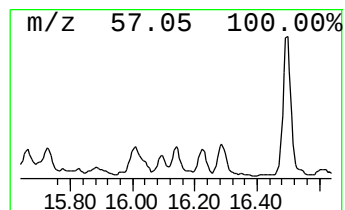
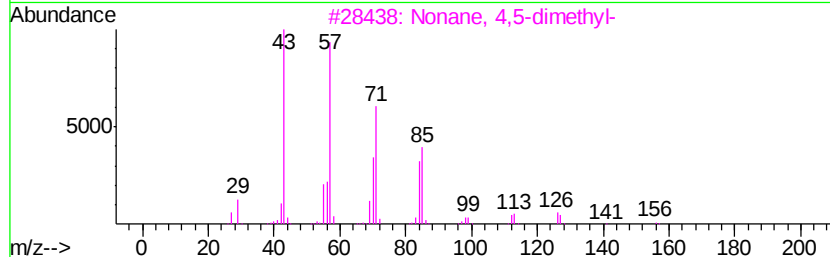
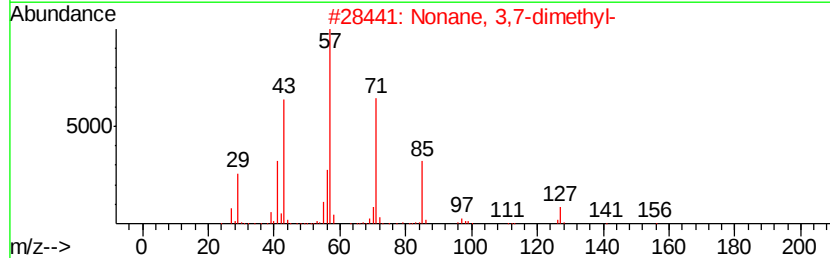
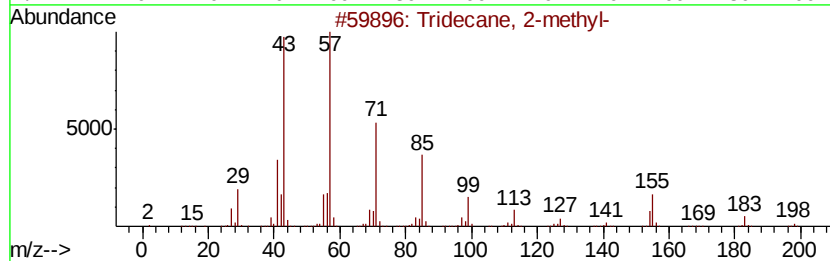
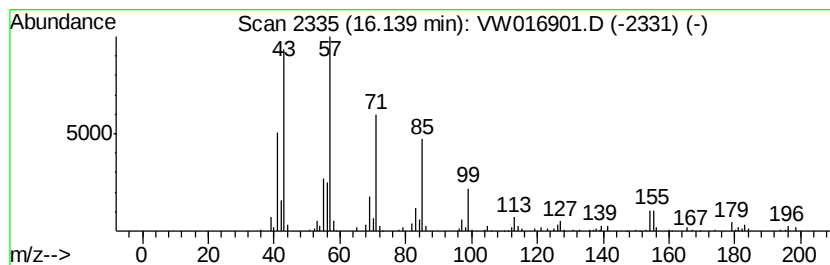
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 57 (DEL) Alkane: Straight-Chai... Concentration Rank 47

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 16.14 | 10.93 ug/L | 131702 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Tridecane, 2-methyl-  | 198 | C14H30  | 001560-96-9 | 72   |
| 2    |    |   | Nonane, 3,7-dimethyl- | 156 | C11H24  | 017302-32-8 | 70   |
| 3    |    |   | Nonane, 4,5-dimethyl- | 156 | C11H24  | 017302-23-7 | 64   |
| 4    |    |   | Tridecane, 2-methyl-  | 198 | C14H30  | 001560-96-9 | 64   |
| 5    |    |   | Undecane, 3-methyl-   | 170 | C12H26  | 001002-43-3 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW101520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

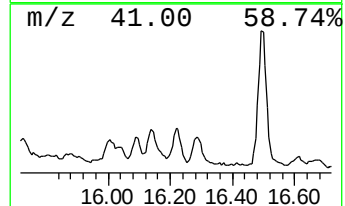
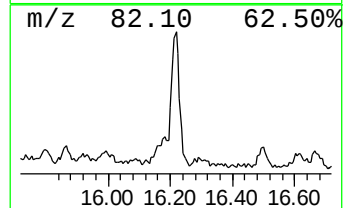
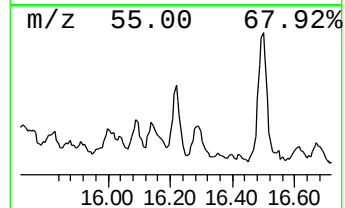
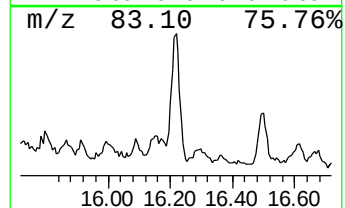
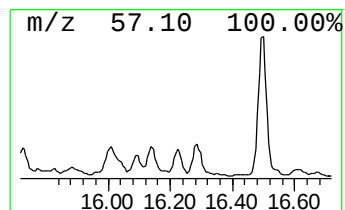
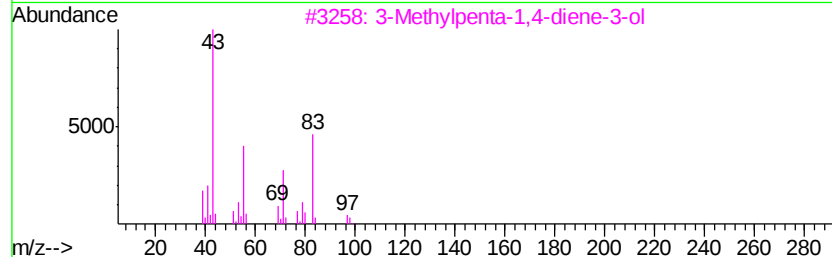
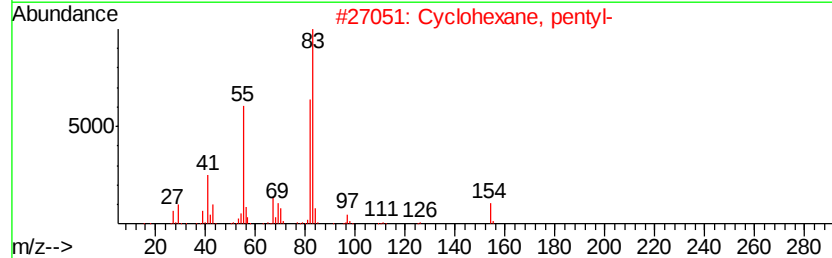
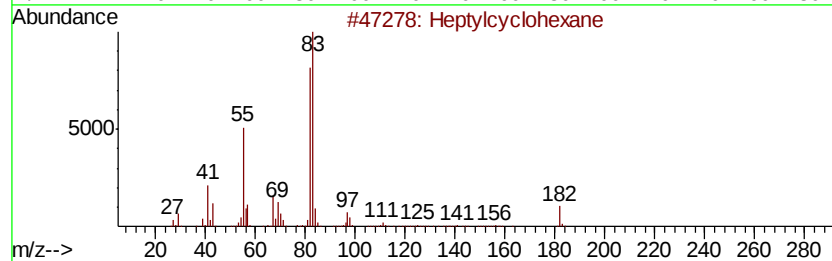
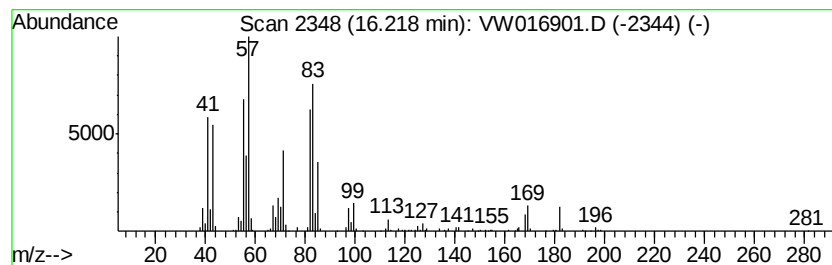
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 58 (DEL) Alkane: Straight-Chai... Concentration Rank 46

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 16.22 | 11.00 ug/L | 132543 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptylcyclohexane               | 182 | C13H26  | 005617-41-4 | 49   |
| 2    |    | Cyclohexane, pentyl-            | 154 | C11H22  | 004292-92-6 | 43   |
| 3    |    | 3-Methylpenta-1,4-diene-3-ol    | 98  | C6H10O  | 000918-86-5 | 43   |
| 4    |    | Cyclohexane, octyl-             | 196 | C14H28  | 001795-15-9 | 43   |
| 5    |    | Cyclopentane, 1-ethyl-1-methyl- | 112 | C8H16   | 016747-50-5 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW01520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

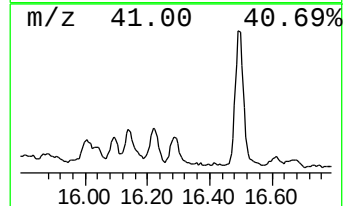
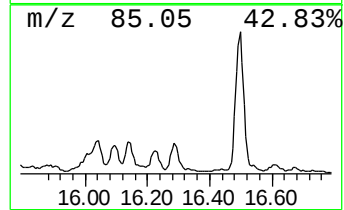
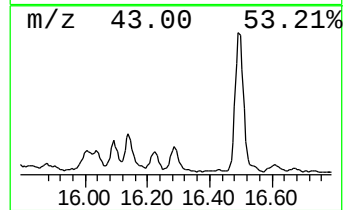
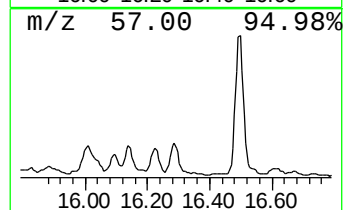
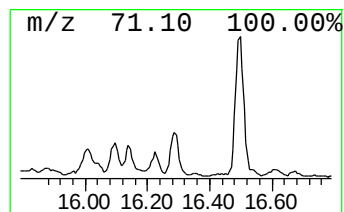
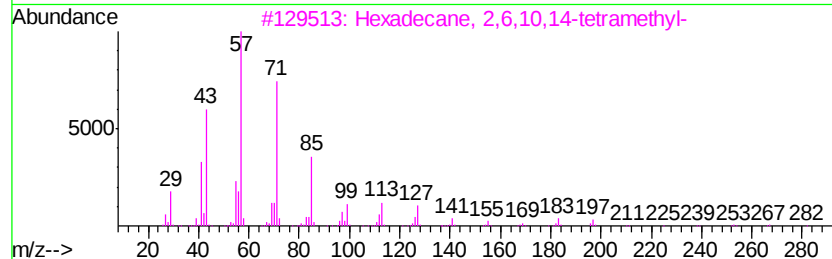
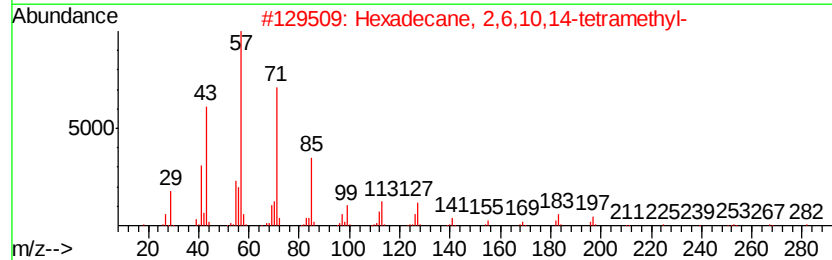
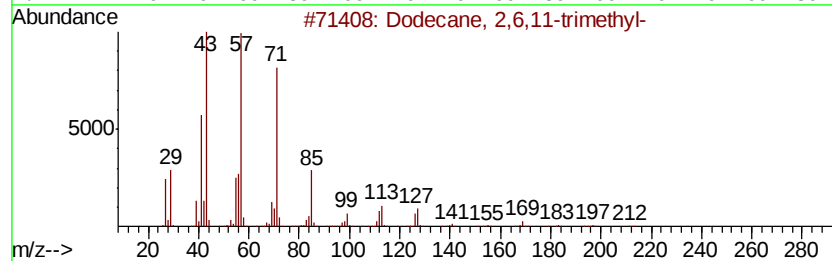
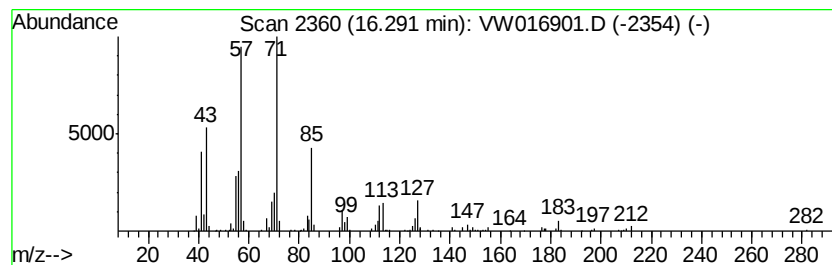
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 59 (DEL) Alkane: Straight-Chai... Concentration Rank 44

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 16.29 | 11.88 ug/L | 143120 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Dodecane, 2,6,11-trimethyl-        | 212 | C15H32  | 031295-56-4 | 90   |
| 2    |    |   | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42  | 000638-36-8 | 90   |
| 3    |    |   | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42  | 000638-36-8 | 86   |
| 4    |    |   | Octane, 2-methyl-                  | 128 | C9H20   | 003221-61-2 | 83   |
| 5    |    |   | Tetradecane, 4-methyl-             | 212 | C15H32  | 025117-24-2 | 80   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW01520\  
Data File : VW016901.D  
Acq On : 14 Oct 2020 13:36  
Operator : SY/VA  
Sample : L4382-11  
Misc : 5.53G/10ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis

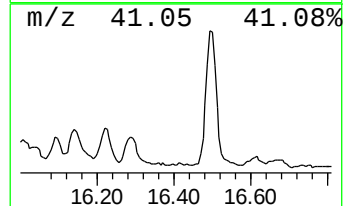
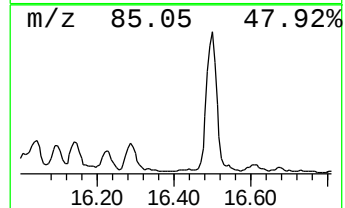
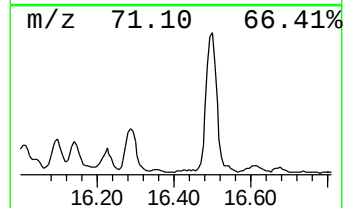
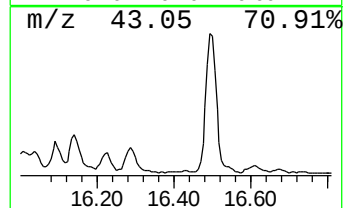
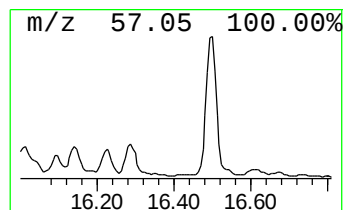
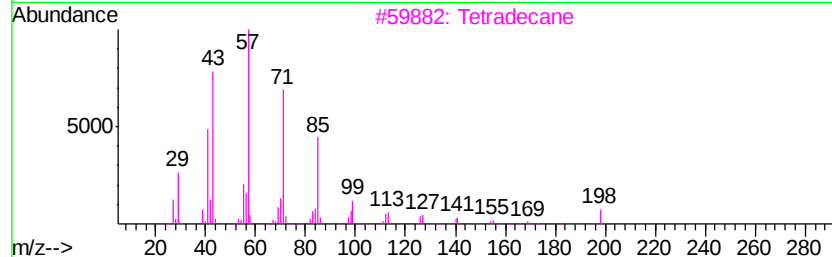
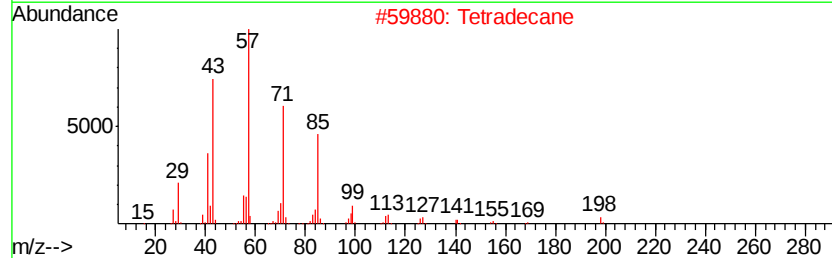
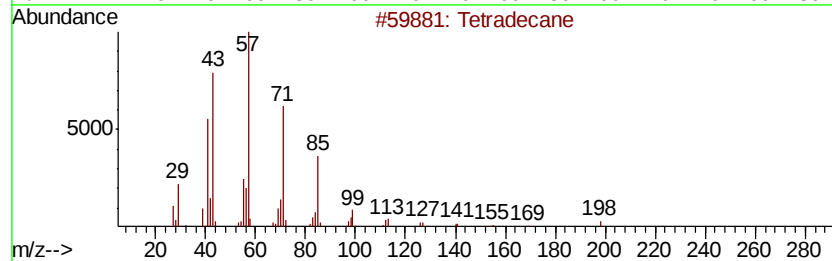
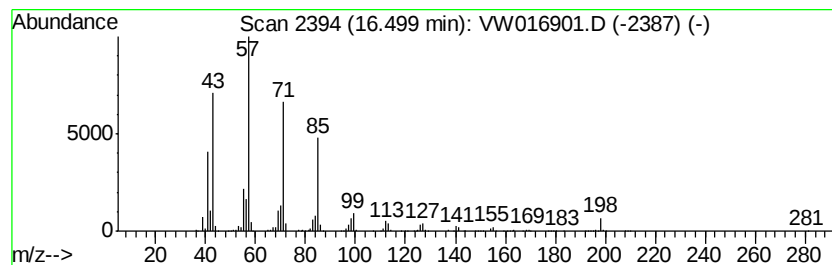
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 60 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 16.50 | 46.04 ug/L | 554795 | 1,4-Dichlorobenzene-d4 | 13.57 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane  | 198 | C14H30  | 000629-59-4 | 97   |
| 2    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 97   |
| 3    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 95   |
| 4    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 95   |
| 5    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW101520\  
 Data File : VW016901.D  
 Acq On : 14 Oct 2020 13:36  
 Operator : SY/VA  
 Sample : L4382-11  
 Misc : 5.53G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG3X9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.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 |
| (DEL) Alkane: Str... | 5.97  | 1.3     | ug/L  | 22242    | 1                     | 8.86  | 425039 | 25.0 |
| (DEL) Alkane: Str... | 8.71  | 1.6     | ug/L  | 26651    | 1                     | 8.86  | 425039 | 25.0 |
| (DEL) Alkane: Str... | 11.44 | 10.8    | ug/L  | 102300   | 2                     | 11.66 | 237565 | 25.0 |
| (DEL) Alkane: Str... | 11.54 | 17.2    | ug/L  | 163837   | 2                     | 11.66 | 237565 | 25.0 |
| (DEL) Alkane: Str... | 11.94 | 13.4    | ug/L  | 127462   | 2                     | 11.66 | 237565 | 25.0 |
| (DEL) Alkane: Cyc... | 12.00 | 1.6     | ug/L  | 15459    | 2                     | 11.66 | 237565 | 25.0 |
| (DEL) Alkane: Str... | 12.07 | 12.3    | ug/L  | 116394   | 2                     | 11.66 | 237565 | 25.0 |
| (DEL) Alkane: Str... | 12.27 | 45.5    | ug/L  | 432033   | 2                     | 11.66 | 237565 | 25.0 |
| (DEL) Alkane: Cyc... | 12.40 | 114.5   | ug/L  | 1088400  | 2                     | 11.66 | 237565 | 25.0 |
| (DEL) Alkane: Str... | 12.55 | 21.8    | ug/L  | 207127   | 2                     | 11.66 | 237565 | 25.0 |
| (DEL) Alkane: Str... | 12.58 | 41.0    | ug/L  | 389731   | 2                     | 11.66 | 237565 | 25.0 |
| (DEL) Alkane: Cyc... | 12.79 | 48.1    | ug/L  | 579978   | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, 1-ethyl-... | 12.88 | 50.5    | ug/L  | 608079   | 3                     | 13.57 | 301274 | 25.0 |
| (DEL) Alkane: Str... | 12.94 | 191.1   | ug/L  | 2302380  | 3                     | 13.57 | 301274 | 25.0 |
| (DEL) Alkane: Cyc... | 13.00 | 12.8    | ug/L  | 153757   | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, 1-ethyl-... | 13.12 | 42.9    | ug/L  | 516553   | 3                     | 13.57 | 301274 | 25.0 |
| (DEL) Alkane: Str... | 13.17 | 26.5    | ug/L  | 319569   | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, 1,2,3-tr... | 13.26 | 102.3   | ug/L  | 1233360  | 3                     | 13.57 | 301274 | 25.0 |
| (DEL) Alkane: Str... | 13.30 | 10.4    | ug/L  | 125837   | 3                     | 13.57 | 301274 | 25.0 |
| (DEL) Alkane: Str... | 13.35 | 6.0     | ug/L  | 72581    | 3                     | 13.57 | 301274 | 25.0 |
| (DEL) Alkane: Str... | 13.41 | 31.0    | ug/L  | 373991   | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, 1-methyl... | 13.45 | 20.1    | ug/L  | 242005   | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, 1,3-diet... | 13.72 | 20.0    | ug/L  | 241399   | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, (1-methy... | 13.76 | 61.5    | ug/L  | 740575   | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, 1,4-diet... | 13.80 | 53.3    | ug/L  | 642718   | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, 1-methyl... | 13.96 | 18.3    | ug/L  | 220905   | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, 1-ethyl-... | 14.02 | 29.9    | ug/L  | 359661   | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, 1-ethyl-... | 14.04 | 32.3    | ug/L  | 389325   | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, 2-ethyl-... | 14.10 | 43.8    | ug/L  | 528254   | 3                     | 13.57 | 301274 | 25.0 |
| o-Cymene             | 14.21 | 28.6    | ug/L  | 344318   | 3                     | 13.57 | 301274 | 25.0 |
| 1-Decanol, 2-hexyl-  | 14.27 | 13.8    | ug/L  | 166332   | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, 4-ethyl-... | 14.35 | 37.8    | ug/L  | 455227   | 3                     | 13.57 | 301274 | 25.0 |
| (DEL) Alkane: Cyc... | 14.40 | 40.6    | ug/L  | 489920   | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, 1,2,3,4-... | 14.43 | 46.0    | ug/L  | 554485   | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, 1-ethyl-... | 14.46 | 35.5    | ug/L  | 427817   | 3                     | 13.57 | 301274 | 25.0 |
| (DEL) Alkane: Str... | 14.50 | 26.6    | ug/L  | 320680   | 3                     | 13.57 | 301274 | 25.0 |
| trans-Decalin, 2-... | 14.55 | 11.4    | ug/L  | 137750   | 3                     | 13.57 | 301274 | 25.0 |
| unknown-01           | 14.65 | 3.6     | ug/L  | 43691    | 3                     | 13.57 | 301274 | 25.0 |
| 1H-Indene, 2,3-di... | 14.69 | 8.3     | ug/L  | 100117   | 3                     | 13.57 | 301274 | 25.0 |
| (DEL) Alkane: Str... | 14.72 | 115.5   | ug/L  | 1391240  | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, 1,2,4,5-... | 14.80 | 49.3    | ug/L  | 594545   | 3                     | 13.57 | 301274 | 25.0 |
| (DEL) Alkane: Str... | 14.84 | 24.8    | ug/L  | 298260   | 3                     | 13.57 | 301274 | 25.0 |
| unknown-02           | 15.02 | 1.8     | ug/L  | 21413    | 3                     | 13.57 | 301274 | 25.0 |
| Benzene, 1,4-diet... | 15.07 | 7.2     | ug/L  | 86805    | 3                     | 13.57 | 301274 | 25.0 |
| (DEL) Alkane: Str... | 15.16 | 18.9    | ug/L  | 227684   | 3                     | 13.57 | 301274 | 25.0 |
| (DEL) Alkane: Str... | 15.21 | 13.3    | ug/L  | 160675   | 3                     | 13.57 | 301274 | 25.0 |
| (DEL) Alkane: Str... | 15.25 | 22.9    | ug/L  | 275437   | 3                     | 13.57 | 301274 | 25.0 |
| (DEL) Alkane: Str... | 15.32 | 29.4    | ug/L  | 354638   | 3                     | 13.57 | 301274 | 25.0 |
| Azulene              | 15.36 | 20.5    | ug/L  | 247079   | 3                     | 13.57 | 301274 | 25.0 |

|       |                |       |            |         |   |       |        |      |
|-------|----------------|-------|------------|---------|---|-------|--------|------|
| (DEL) | Alkane: Str... | 15.55 | 100.5 ug/L | 1210800 | 3 | 13.57 | 301274 | 25.0 |
| (DEL) | Alkane: Str... | 15.66 | 15.3 ug/L  | 184050  | 3 | 13.57 | 301274 | 25.0 |
| (DEL) | Alkane: Str... | 16.00 | 5.9 ug/L   | 71423   | 3 | 13.57 | 301274 | 25.0 |
| (DEL) | Alkane: Str... | 16.09 | 7.1 ug/L   | 85904   | 3 | 13.57 | 301274 | 25.0 |
| (DEL) | Alkane: Str... | 16.14 | 10.9 ug/L  | 131702  | 3 | 13.57 | 301274 | 25.0 |
| (DEL) | Alkane: Str... | 16.22 | 11.0 ug/L  | 132543  | 3 | 13.57 | 301274 | 25.0 |
| (DEL) | Alkane: Str... | 16.29 | 11.9 ug/L  | 143120  | 3 | 13.57 | 301274 | 25.0 |
| (DEL) | Alkane: Str... | 16.50 | 46.0 ug/L  | 554795  | 3 | 13.57 | 301274 | 25.0 |

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X9