

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
 Data File : VW016647.D  
 Acq On : 24 Sep 2020 18:00  
 Operator : SY/VA  
 Sample : L4109-12  
 Misc : 6.21G/10ML/MSVOA W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG3X2

## 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\SOM2WLM091520S.M  
 Title : VOC Analysis

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.367       | 64            | 76          | 88           | rBV      | 107322         | 237107        | 0.23%           | 0.025%        |
| 2         | 2.904       | 156           | 164         | 184          | rVB      | 77668          | 219545        | 0.21%           | 0.024%        |
| 3         | 4.031       | 337           | 349         | 360          | rBV      | 201367         | 668439        | 0.65%           | 0.072%        |
| 4         | 4.976       | 476           | 504         | 560          | rBV      | 9882379        | 43396304      | 41.95%          | 4.650%        |
| 5         | 5.452       | 564           | 582         | 627          | rBV      | 16901601       | 70696431      | 68.34%          | 7.575%        |
| 6         | 5.958       | 649           | 665         | 685          | rBV      | 30930820       | 103445157     | 100.00%         | 11.083%       |
| 7         | 6.726       | 776           | 791         | 808          | rBV      | 2358747        | 9416112       | 9.10%           | 1.009%        |
| 8         | 6.885       | 808           | 817         | 826          | rVV      | 1761426        | 6103173       | 5.90%           | 0.654%        |
| 9         | 6.994       | 826           | 835         | 854          | rVV      | 4871870        | 15781006      | 15.26%          | 1.691%        |
| 10        | 7.177       | 855           | 865         | 887          | rVB2     | 161439         | 717371        | 0.69%           | 0.077%        |
| 11        | 7.653       | 932           | 943         | 950          | rBV      | 339320         | 915806        | 0.89%           | 0.098%        |
| 12        | 7.964       | 971           | 994         | 1002         | rBV3     | 379478         | 1461651       | 1.41%           | 0.157%        |
| 13        | 8.037       | 1002          | 1006        | 1018         | rVV      | 91534          | 239934        | 0.23%           | 0.026%        |
| 14        | 8.159       | 1018          | 1026        | 1034         | rVV      | 205871         | 484222        | 0.47%           | 0.052%        |
| 15        | 8.281       | 1034          | 1046        | 1062         | rVV2     | 623779         | 1865718       | 1.80%           | 0.200%        |
| 16        | 8.701       | 1106          | 1115        | 1126         | rVB      | 236965         | 460769        | 0.45%           | 0.049%        |
| 17        | 8.848       | 1129          | 1139        | 1153         | rBV      | 739012         | 1488153       | 1.44%           | 0.159%        |
| 18        | 9.281       | 1200          | 1210        | 1215         | rBV      | 420201         | 886186        | 0.86%           | 0.095%        |
| 19        | 9.335       | 1215          | 1219        | 1224         | rVV3     | 144526         | 311131        | 0.30%           | 0.033%        |
| 20        | 9.762       | 1281          | 1289        | 1302         | rVB      | 292485         | 663006        | 0.64%           | 0.071%        |
| 21        | 9.896       | 1302          | 1311        | 1318         | rBV      | 559130         | 1262494       | 1.22%           | 0.135%        |
| 22        | 10.036      | 1329          | 1334        | 1339         | rBV      | 213498         | 352025        | 0.34%           | 0.038%        |
| 23        | 10.097      | 1339          | 1344        | 1357         | rVB      | 137128         | 303731        | 0.29%           | 0.033%        |
| 24        | 10.250      | 1357          | 1369        | 1376         | rBV      | 1300775        | 2445768       | 2.36%           | 0.262%        |
| 25        | 10.329      | 1376          | 1382        | 1387         | rBV      | 969459         | 1699659       | 1.64%           | 0.182%        |
| 26        | 10.390      | 1387          | 1392        | 1404         | rVB      | 543651         | 1009580       | 0.98%           | 0.108%        |
| 27        | 10.506      | 1404          | 1411        | 1417         | rVB2     | 221856         | 392962        | 0.38%           | 0.042%        |
| 28        | 10.579      | 1417          | 1423        | 1433         | rBV      | 150818         | 285703        | 0.28%           | 0.031%        |
| 29        | 10.774      | 1448          | 1455        | 1463         | rBV2     | 376210         | 678252        | 0.66%           | 0.073%        |
| 30        | 10.933      | 1474          | 1481        | 1493         | rBV3     | 243999         | 505590        | 0.49%           | 0.054%        |
| 31        | 11.042      | 1493          | 1499        | 1502         | rBV      | 102455         | 197245        | 0.19%           | 0.021%        |
| 32        | 11.177      | 1514          | 1521        | 1526         | rVB2     | 106795         | 187909        | 0.18%           | 0.020%        |
| 33        | 11.414      | 1552          | 1560        | 1571         | rVB5     | 108952         | 396943        | 0.38%           | 0.043%        |
| 34        | 11.634      | 1586          | 1596        | 1601         | rBV2     | 1047419        | 2156296       | 2.08%           | 0.231%        |

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 Sampling : 1  
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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\SOM2WLM091520S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |          |          |        |        |
|----|--------|------|------|------|------|----------|----------|--------|--------|
| 35 | 11.701 | 1602 | 1607 | 1609 | rBV  | 160896   | 245085   | 0.24%  | 0.026% |
| 36 | 11.731 | 1609 | 1612 | 1621 | rVB  | 690102   | 1082860  | 1.05%  | 0.116% |
| 37 | 11.841 | 1621 | 1630 | 1635 | rBV  | 2433515  | 4798311  | 4.64%  | 0.514% |
| 38 | 12.030 | 1648 | 1661 | 1662 | rBV7 | 74815    | 172685   | 0.17%  | 0.019% |
| 39 | 12.073 | 1662 | 1668 | 1672 | rVV2 | 283207   | 471747   | 0.46%  | 0.051% |
| 40 | 12.170 | 1674 | 1684 | 1690 | rVB  | 910533   | 2000561  | 1.93%  | 0.214% |
| 41 | 12.249 | 1690 | 1697 | 1702 | rVB  | 390936   | 760311   | 0.73%  | 0.081% |
| 42 | 12.335 | 1702 | 1711 | 1713 | rBV4 | 273901   | 604923   | 0.58%  | 0.065% |
| 43 | 12.365 | 1713 | 1716 | 1723 | rVB2 | 245664   | 495509   | 0.48%  | 0.053% |
| 44 | 12.469 | 1726 | 1733 | 1737 | rBV  | 2324199  | 3990325  | 3.86%  | 0.428% |
| 45 | 12.591 | 1747 | 1753 | 1761 | rVB  | 2022183  | 3550899  | 3.43%  | 0.380% |
| 46 | 12.658 | 1761 | 1764 | 1766 | rBV  | 155162   | 194617   | 0.19%  | 0.021% |
| 47 | 12.695 | 1766 | 1770 | 1776 | rVB3 | 453914   | 846519   | 0.82%  | 0.091% |
| 48 | 12.762 | 1776 | 1781 | 1783 | rBV2 | 619517   | 1136749  | 1.10%  | 0.122% |
| 49 | 12.804 | 1783 | 1788 | 1793 | rVV  | 15071154 | 24568838 | 23.75% | 2.632% |
| 50 | 12.871 | 1793 | 1799 | 1802 | rVV  | 29803905 | 50567014 | 48.88% | 5.418% |
| 51 | 12.902 | 1802 | 1804 | 1808 | rVV  | 18075273 | 27395911 | 26.48% | 2.935% |
| 52 | 12.944 | 1808 | 1811 | 1819 | rVB  | 21010890 | 33514614 | 32.40% | 3.591% |
| 53 | 13.036 | 1822 | 1826 | 1830 | rVB2 | 634801   | 936055   | 0.90%  | 0.100% |
| 54 | 13.109 | 1830 | 1838 | 1844 | rBV  | 10036022 | 17030589 | 16.46% | 1.825% |
| 55 | 13.170 | 1844 | 1848 | 1850 | rBV  | 878220   | 1293270  | 1.25%  | 0.139% |
| 56 | 13.194 | 1850 | 1852 | 1856 | rVB  | 709666   | 795387   | 0.77%  | 0.085% |
| 57 | 13.255 | 1856 | 1862 | 1868 | rBV  | 39552370 | 68197183 | 65.93% | 7.307% |
| 58 | 13.383 | 1873 | 1883 | 1889 | rBV4 | 3228800  | 10410205 | 10.06% | 1.115% |
| 59 | 13.444 | 1889 | 1893 | 1897 | rVB  | 4008289  | 5940377  | 5.74%  | 0.636% |
| 60 | 13.499 | 1897 | 1902 | 1908 | rVB  | 1774057  | 3015635  | 2.92%  | 0.323% |
| 61 | 13.591 | 1908 | 1917 | 1931 | rVB2 | 8161762  | 17228592 | 16.65% | 1.846% |
| 62 | 13.725 | 1931 | 1939 | 1940 | rBV  | 7799827  | 11669743 | 11.28% | 1.250% |
| 63 | 13.749 | 1940 | 1943 | 1947 | rVV  | 17266417 | 29790072 | 28.80% | 3.192% |
| 64 | 13.798 | 1947 | 1951 | 1960 | rVV3 | 23321132 | 48638693 | 47.02% | 5.211% |
| 65 | 13.877 | 1960 | 1964 | 1970 | rVB2 | 4172318  | 6446353  | 6.23%  | 0.691% |
| 66 | 13.950 | 1970 | 1976 | 1981 | rBV  | 6952697  | 10592018 | 10.24% | 1.135% |
| 67 | 14.011 | 1981 | 1986 | 1989 | rBV  | 13419101 | 22888589 | 22.13% | 2.452% |
| 68 | 14.042 | 1989 | 1991 | 1996 | rVV  | 13905535 | 18909996 | 18.28% | 2.026% |
| 69 | 14.097 | 1996 | 2000 | 2009 | rVB  | 23980514 | 39410817 | 38.10% | 4.223% |
| 70 | 14.206 | 2012 | 2018 | 2023 | rVB3 | 4134217  | 6992049  | 6.76%  | 0.749% |
| 71 | 14.255 | 2023 | 2026 | 2028 | rBV  | 651504   | 936842   | 0.91%  | 0.100% |

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ALS Vial : 12 Sample Multiplier: 1

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BG3X2

## 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\SOM2WLM091520S.M  
Title : VOC Analysis

|     |        |      |      |      |      |          |          |        |        |
|-----|--------|------|------|------|------|----------|----------|--------|--------|
| 72  | 14.341 | 2034 | 2040 | 2045 | rBV  | 5868883  | 9075738  | 8.77%  | 0.972% |
| 73  | 14.420 | 2045 | 2053 | 2056 | rVV  | 17381852 | 28651015 | 27.70% | 3.070% |
| 74  | 14.463 | 2056 | 2060 | 2064 | rVV  | 22546148 | 35634027 | 34.45% | 3.818% |
| 75  | 14.499 | 2064 | 2066 | 2070 | rVV  | 4850487  | 6963706  | 6.73%  | 0.746% |
| 76  | 14.542 | 2070 | 2073 | 2080 | rVV2 | 2959996  | 5059427  | 4.89%  | 0.542% |
| 77  | 14.603 | 2080 | 2083 | 2086 | rVV  | 813315   | 1130433  | 1.09%  | 0.121% |
| 78  | 14.645 | 2086 | 2090 | 2093 | rVV  | 1757161  | 2463361  | 2.38%  | 0.264% |
| 79  | 14.688 | 2093 | 2097 | 2101 | rVV2 | 4931275  | 8411443  | 8.13%  | 0.901% |
| 80  | 14.731 | 2101 | 2104 | 2109 | rVB  | 4427459  | 6414097  | 6.20%  | 0.687% |
| 81  | 14.792 | 2109 | 2114 | 2121 | rBV3 | 11401066 | 24778526 | 23.95% | 2.655% |
| 82  | 14.859 | 2121 | 2125 | 2130 | rVB  | 3748939  | 5601963  | 5.42%  | 0.600% |
| 83  | 14.987 | 2139 | 2146 | 2150 | rBV  | 746580   | 1463812  | 1.42%  | 0.157% |
| 84  | 15.066 | 2154 | 2159 | 2166 | rVV  | 6302154  | 14508565 | 14.03% | 1.554% |
| 85  | 15.133 | 2166 | 2170 | 2174 | rVV  | 5682460  | 9916169  | 9.59%  | 1.062% |
| 86  | 15.170 | 2174 | 2176 | 2184 | rVB2 | 3309668  | 5065588  | 4.90%  | 0.543% |
| 87  | 15.322 | 2195 | 2201 | 2204 | rBV2 | 606602   | 1222105  | 1.18%  | 0.131% |
| 88  | 15.365 | 2204 | 2208 | 2214 | rVV  | 915384   | 1632599  | 1.58%  | 0.175% |
| 89  | 15.475 | 2220 | 2226 | 2230 | rVV  | 1453516  | 2707540  | 2.62%  | 0.290% |
| 90  | 15.554 | 2230 | 2239 | 2248 | rVB2 | 1697320  | 4221826  | 4.08%  | 0.452% |
| 91  | 15.657 | 2249 | 2256 | 2263 | rBV  | 1663670  | 3201690  | 3.10%  | 0.343% |
| 92  | 15.731 | 2265 | 2268 | 2272 | rVV2 | 137521   | 211718   | 0.20%  | 0.023% |
| 93  | 15.785 | 2272 | 2277 | 2278 | rVV2 | 132787   | 223294   | 0.22%  | 0.024% |
| 94  | 15.828 | 2279 | 2284 | 2295 | rVB  | 695796   | 1724161  | 1.67%  | 0.185% |
| 95  | 15.950 | 2297 | 2304 | 2310 | rVV  | 790567   | 1492445  | 1.44%  | 0.160% |
| 96  | 16.029 | 2311 | 2317 | 2324 | rVB  | 326348   | 666900   | 0.64%  | 0.071% |
| 97  | 16.285 | 2355 | 2359 | 2368 | rVB  | 107960   | 195273   | 0.19%  | 0.021% |
| 98  | 16.444 | 2378 | 2385 | 2390 | rBV  | 484924   | 1038955  | 1.00%  | 0.111% |
| 99  | 16.493 | 2390 | 2393 | 2399 | rVB2 | 160850   | 273679   | 0.26%  | 0.029% |
| 100 | 16.645 | 2413 | 2418 | 2430 | rVB  | 202732   | 542055   | 0.52%  | 0.058% |

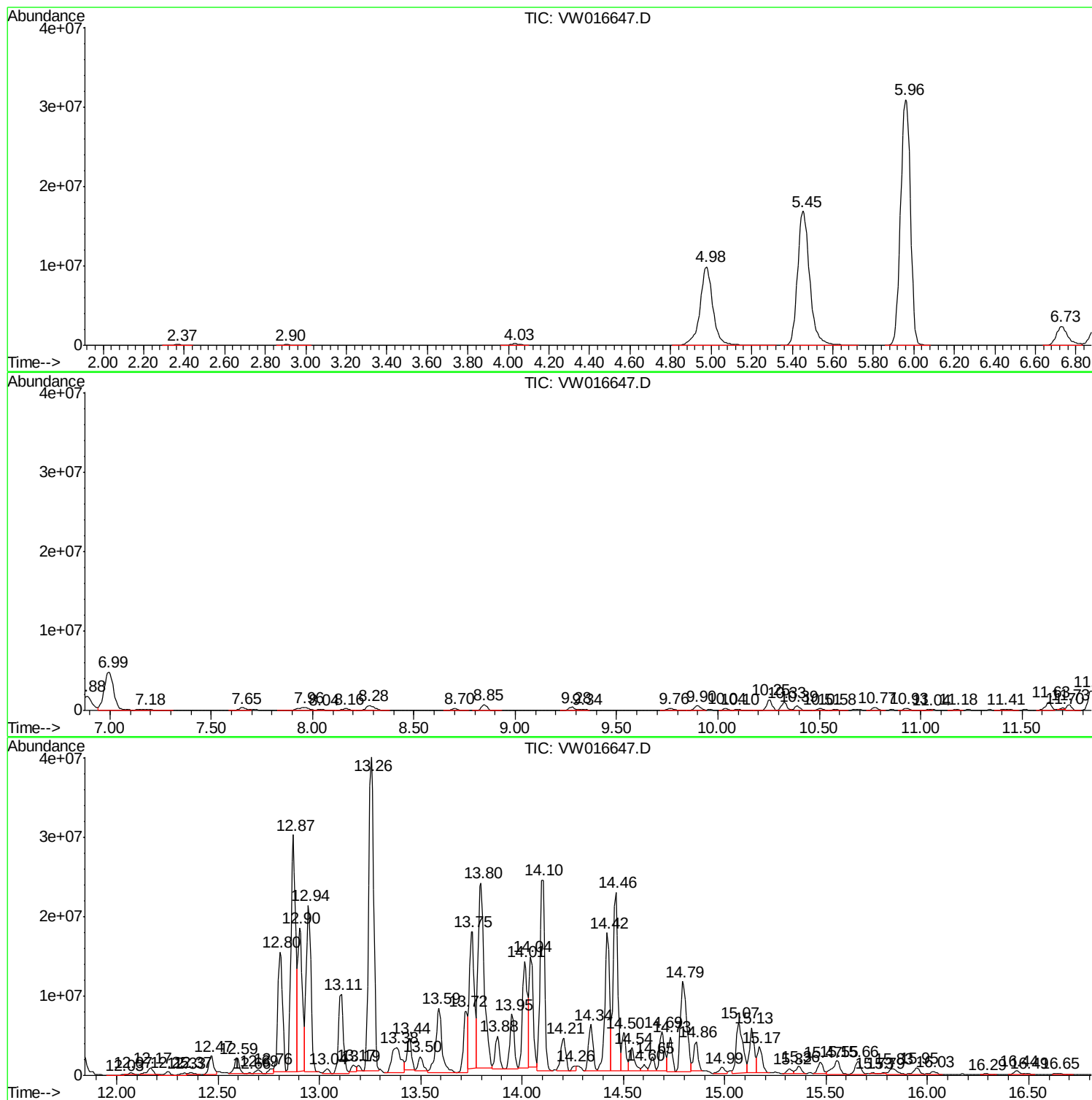
Sum of corrected areas: 933343431

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

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



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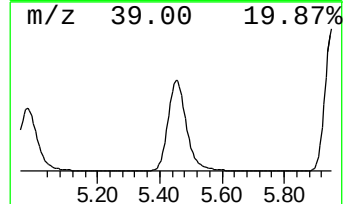
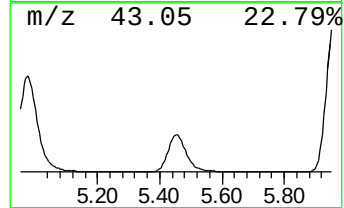
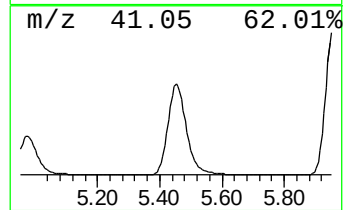
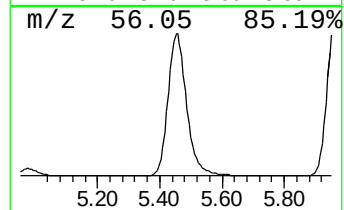
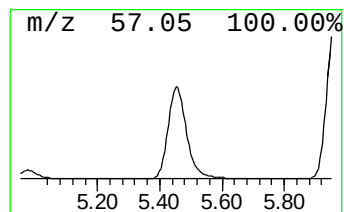
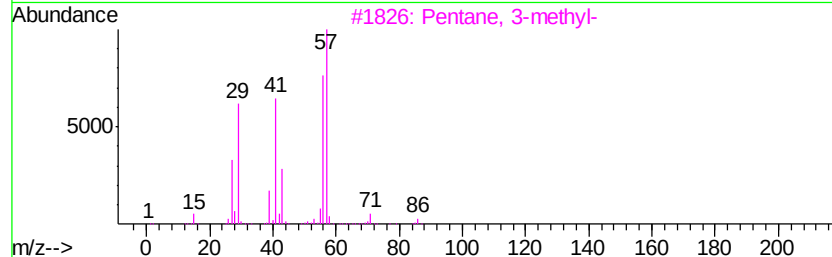
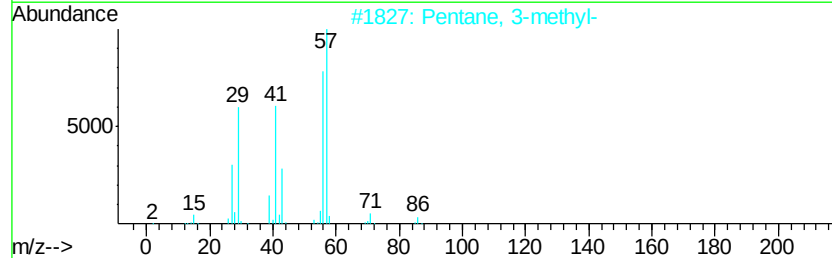
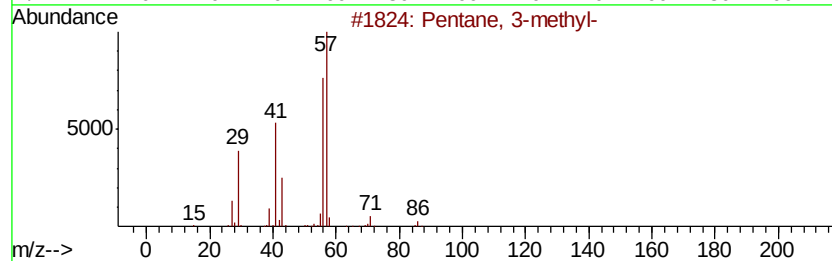
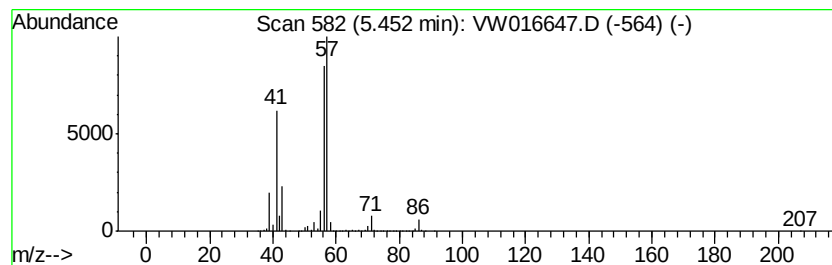
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc      | Area     | Relative to ISTD    | R.T. |
|------|--------------|----------|---------------------|------|
| 5.45 | 1187.65 ug/L | 70696400 | 1,4-Difluorobenzene | 8.85 |

| Hit# | of | Tentative ID             | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------|-----|----------|-------------|------|
| 1    | 5  | Pentane, 3-methyl-       | 86  | C6H14    | 000096-14-0 | 90   |
| 2    |    | Pentane, 3-methyl-       | 86  | C6H14    | 000096-14-0 | 90   |
| 3    |    | Pentane, 3-methyl-       | 86  | C6H14    | 000096-14-0 | 90   |
| 4    |    | Hexane, 2,2,3-trimethyl- | 128 | C9H20    | 016747-25-4 | 78   |
| 5    |    | Butyl isocyanatoacetate  | 157 | C7H11NO3 | 017046-22-9 | 64   |



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Quant Title : VOC Analysis

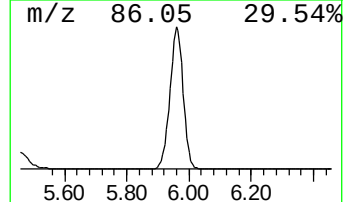
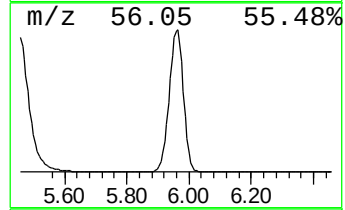
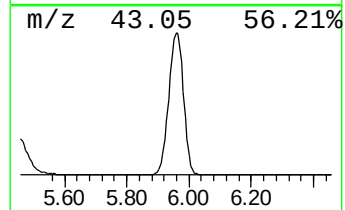
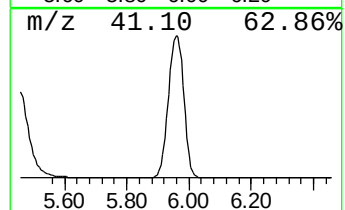
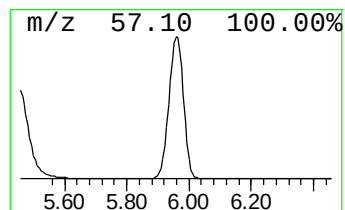
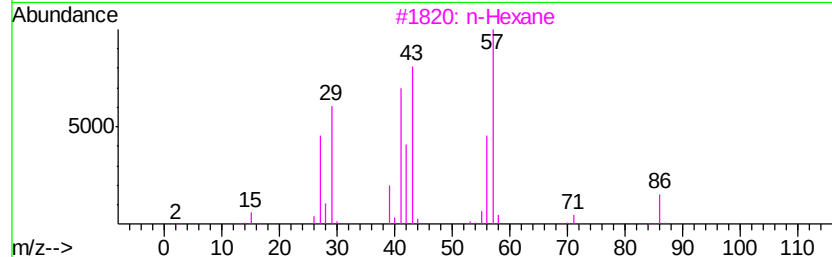
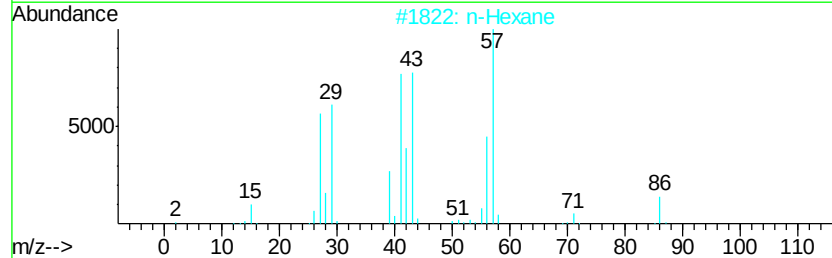
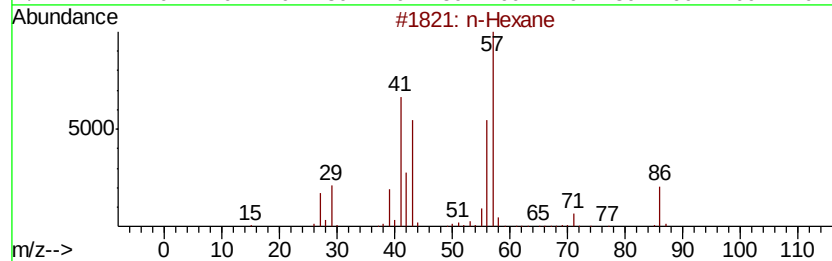
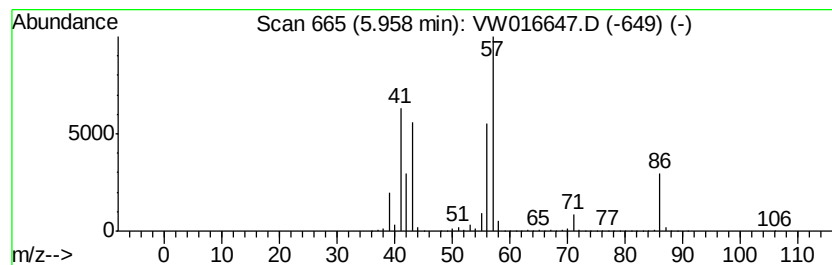
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc      | Area      | Relative to ISTD    | R.T. |
|------|--------------|-----------|---------------------|------|
| 5.96 | 1737.81 ug/L | 103445000 | 1,4-Difluorobenzene | 8.85 |

| Hit# | of | Tentative ID       | MW | MolForm | CAS#        | Qual |
|------|----|--------------------|----|---------|-------------|------|
| 1    | 5  | n-Hexane           | 86 | C6H14   | 000110-54-3 | 91   |
| 2    |    | n-Hexane           | 86 | C6H14   | 000110-54-3 | 72   |
| 3    |    | n-Hexane           | 86 | C6H14   | 000110-54-3 | 64   |
| 4    |    | Pentane, 3-methyl- | 86 | C6H14   | 000096-14-0 | 50   |
| 5    |    | Pentane, 3-methyl- | 86 | C6H14   | 000096-14-0 | 40   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

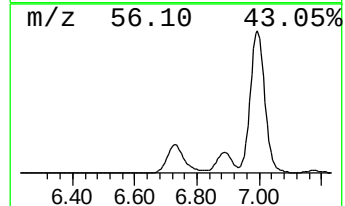
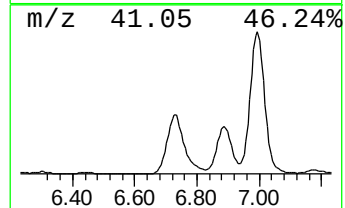
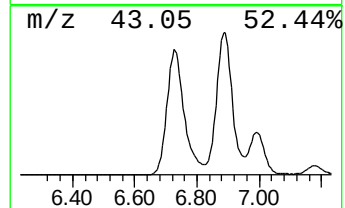
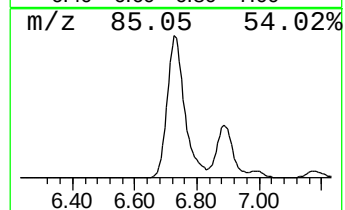
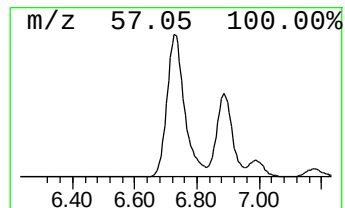
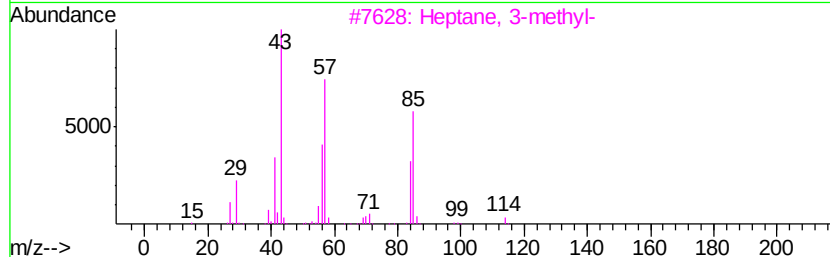
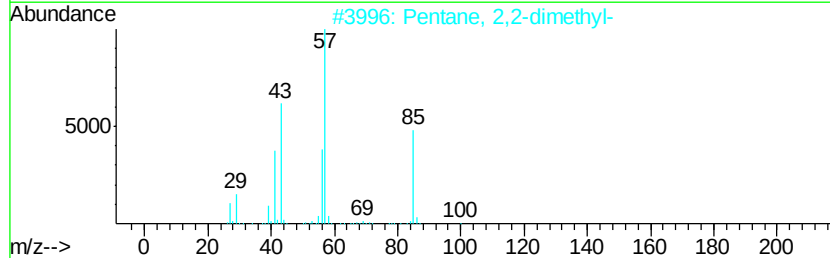
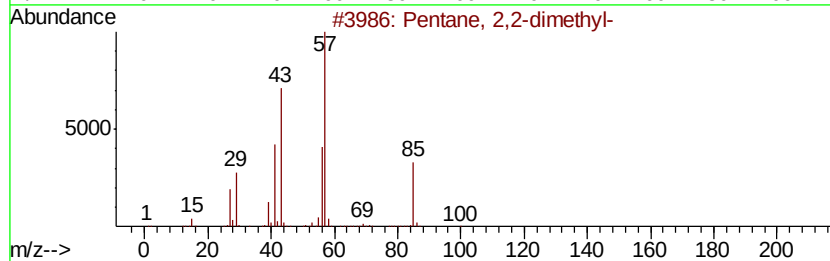
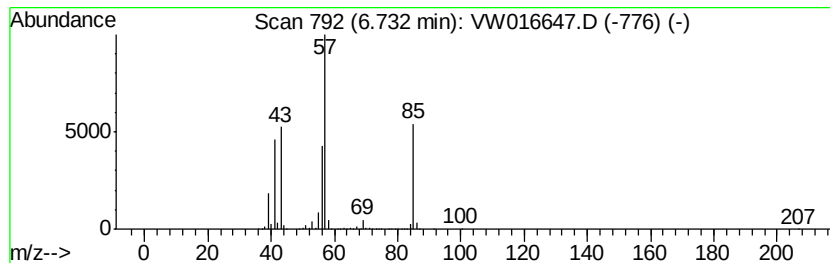
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T. | EstConc     | Area    | Relative to ISTD    | R.T. |
|------|-------------|---------|---------------------|------|
| 6.73 | 158.19 ug/L | 9416110 | 1,4-Difluorobenzene | 8.85 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,2-dimethyl-        | 100 | C7H16   | 000590-35-2 | 83   |
| 2    |    | Pentane, 2,2-dimethyl-        | 100 | C7H16   | 000590-35-2 | 83   |
| 3    |    | Heptane, 3-methyl-            | 114 | C8H18   | 000589-81-1 | 78   |
| 4    |    | Pentane, 2,4-dimethyl-        | 100 | C7H16   | 000108-08-7 | 74   |
| 5    |    | Pentane, 2,2,3,4-tetramethyl- | 128 | C9H20   | 001186-53-4 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

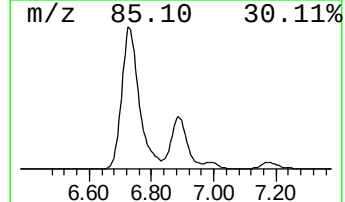
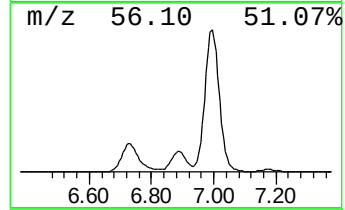
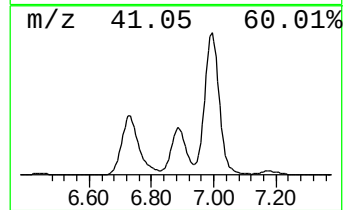
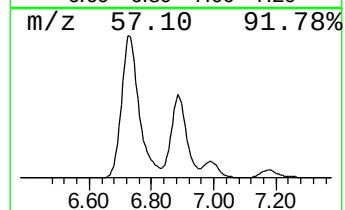
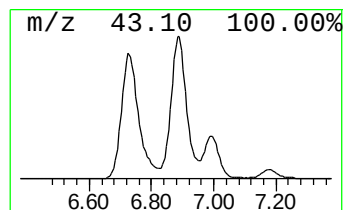
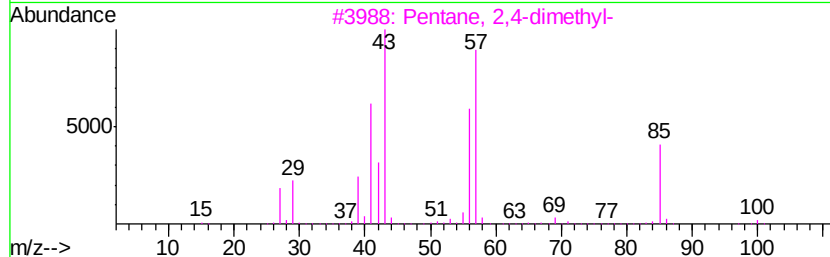
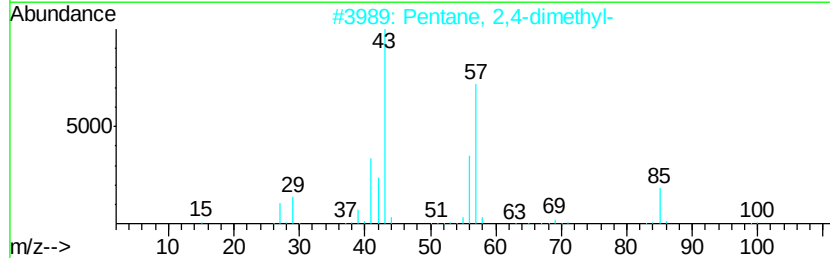
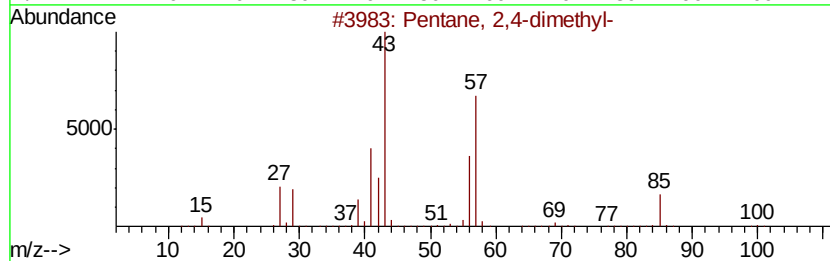
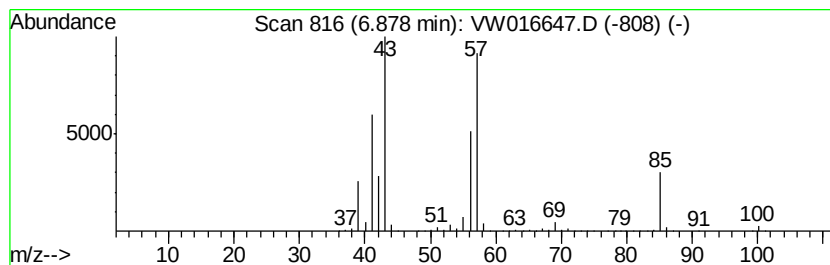
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.      | EstConc                | Area    | Relative to ISTD    | R.T.        |      |
|-----------|------------------------|---------|---------------------|-------------|------|
| 6.88      | 102.53 ug/L            | 6103170 | 1,4-Difluorobenzene | 8.85        |      |
| Hit# of 5 | Tentative ID           | MW      | MolForm             | CAS#        | Qual |
| 1         | Pentane, 2,4-dimethyl- | 100     | C7H16               | 000108-08-7 | 91   |
| 2         | Pentane, 2,4-dimethyl- | 100     | C7H16               | 000108-08-7 | 74   |
| 3         | Pentane, 2,4-dimethyl- | 100     | C7H16               | 000108-08-7 | 72   |
| 4         | Hexane, 2,4-dimethyl-  | 114     | C8H18               | 000589-43-5 | 64   |
| 5         | Pentane, 2,2-dimethyl- | 100     | C7H16               | 000590-35-2 | 59   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

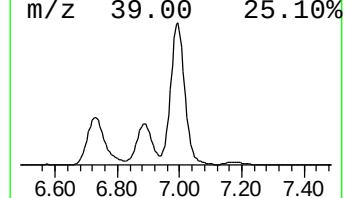
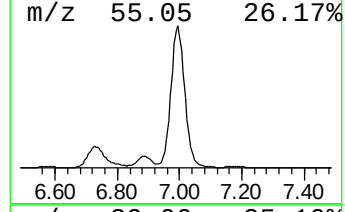
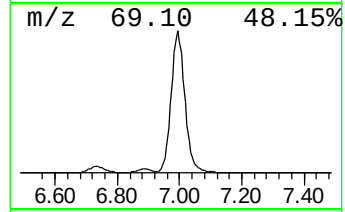
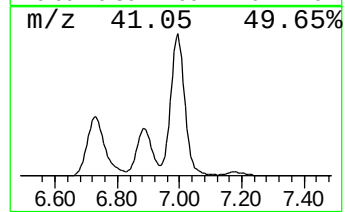
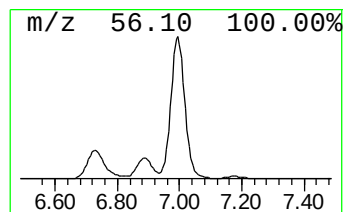
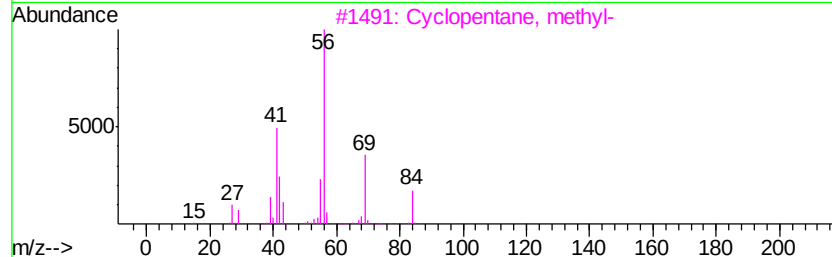
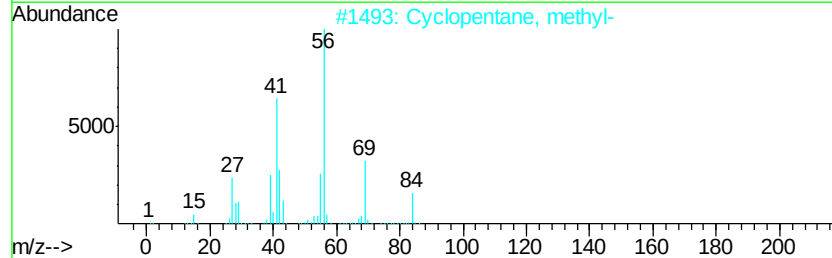
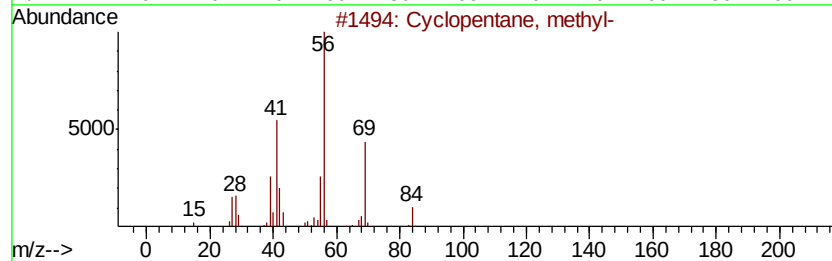
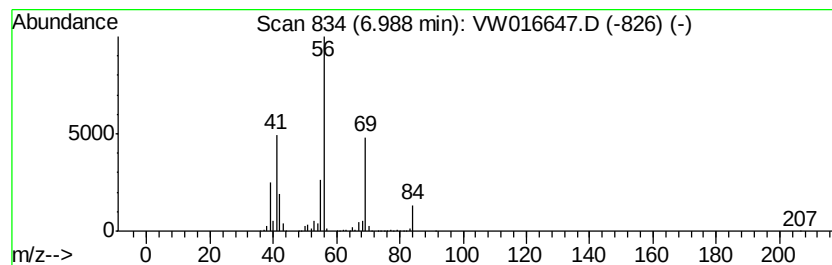
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Cyclic6.99 Concentration Rank 3

| R.T. | EstConc     | Area     | Relative to ISTD    | R.T. |
|------|-------------|----------|---------------------|------|
| 6.99 | 265.11 ug/L | 15781000 | 1,4-Difluorobenzene | 8.85 |

| Hit# of | 5 | Tentative ID            | MW | MolForm | CAS#        | Qual |
|---------|---|-------------------------|----|---------|-------------|------|
| 1       |   | Cyclopentane, methyl-   | 84 | C6H12   | 000096-37-7 | 91   |
| 2       |   | Cyclopentane, methyl-   | 84 | C6H12   | 000096-37-7 | 86   |
| 3       |   | Cyclopentane, methyl-   | 84 | C6H12   | 000096-37-7 | 86   |
| 4       |   | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4  | 004076-36-2 | 64   |
| 5       |   | Cyclobutane, ethyl-     | 84 | C6H12   | 004806-61-5 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

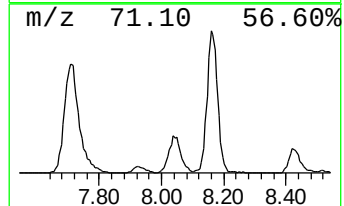
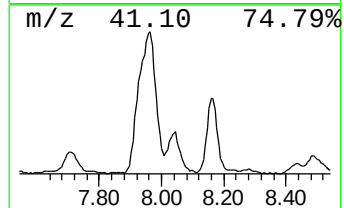
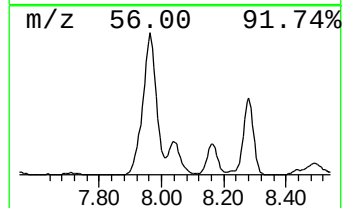
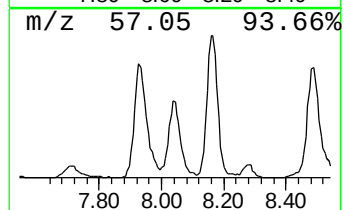
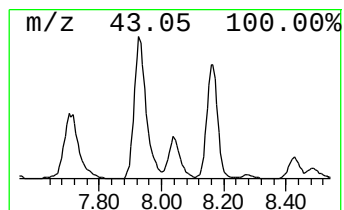
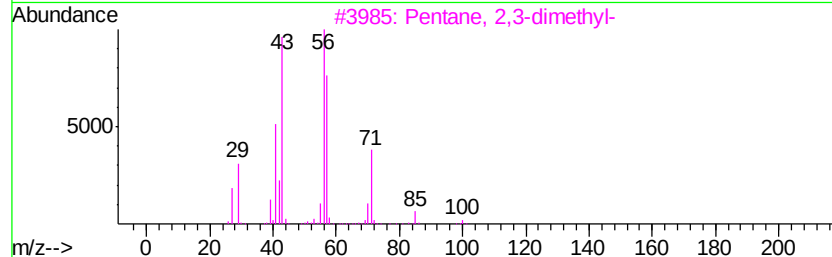
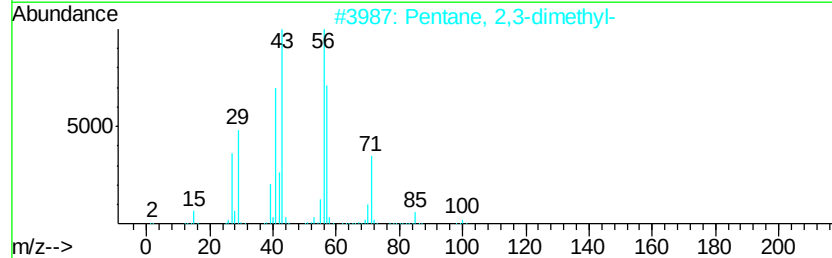
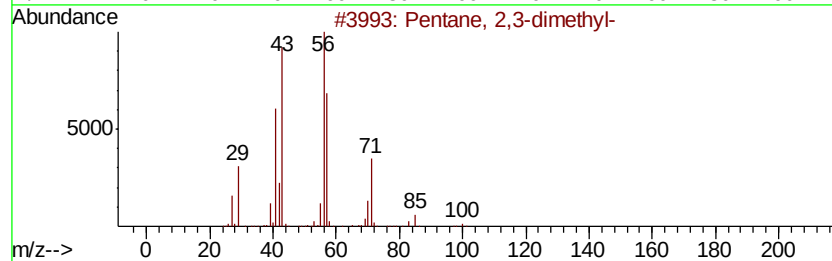
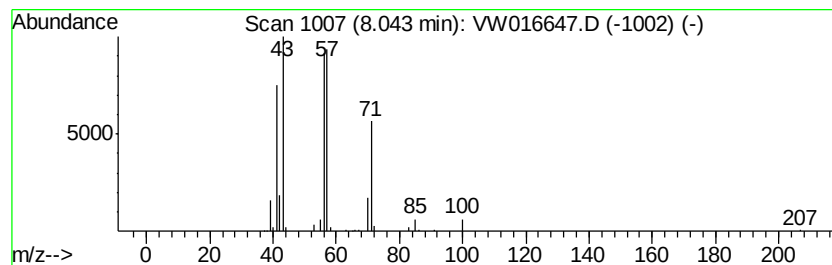
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 47

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 8.04 | 4.03 ug/L | 239934 | 1,4-Difluorobenzene | 8.85 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,3-dimethyl- | 100 | C7H16   | 000565-59-3 | 91   |
| 2    |    | Pentane, 2,3-dimethyl- | 100 | C7H16   | 000565-59-3 | 64   |
| 3    |    | Pentane, 2,3-dimethyl- | 100 | C7H16   | 000565-59-3 | 64   |
| 4    |    | Hexyl octyl ether      | 214 | C14H30O | 017071-54-4 | 53   |
| 5    |    | Heptane                | 100 | C7H16   | 000142-82-5 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

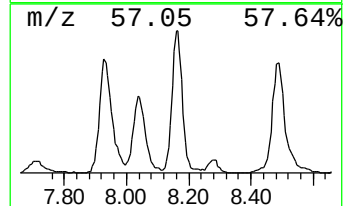
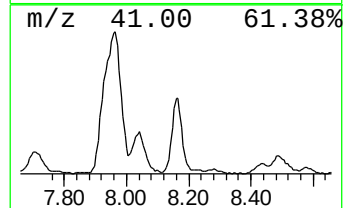
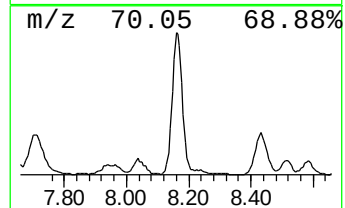
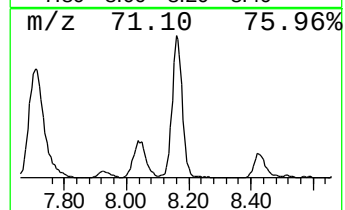
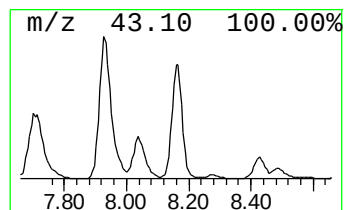
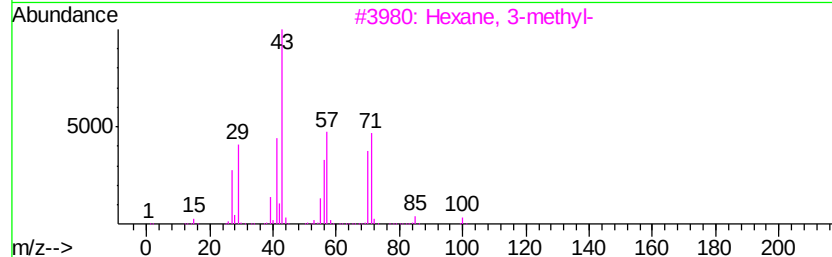
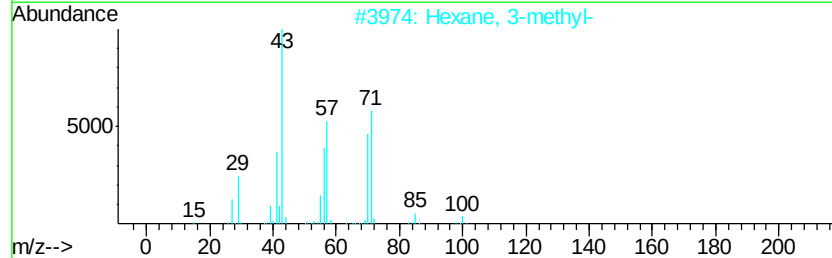
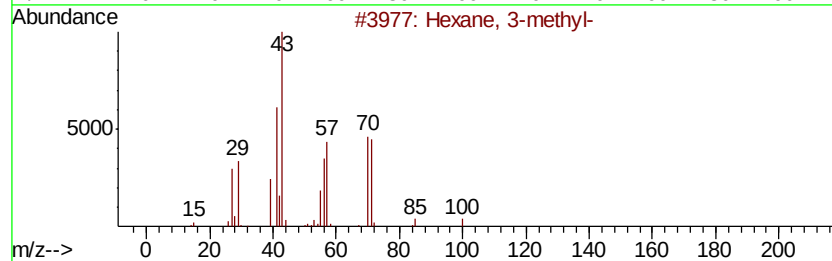
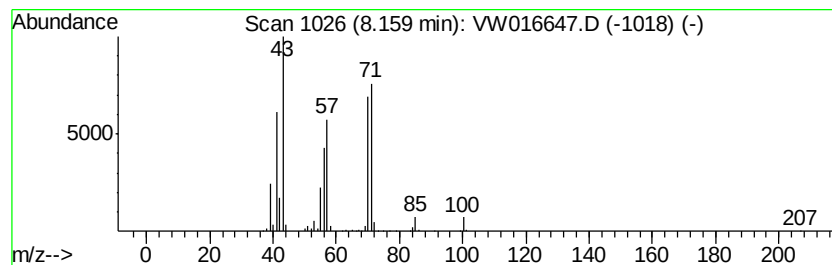
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 35

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 8.16 | 8.13 ug/L | 484222 | 1,4-Difluorobenzene | 8.85 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------|-----|---------|-------------|------|
| 1    | 5  | Hexane, 3-methyl-  | 100 | C7H16   | 000589-34-4 | 95   |
| 2    |    | Hexane, 3-methyl-  | 100 | C7H16   | 000589-34-4 | 91   |
| 3    |    | Hexane, 3-methyl-  | 100 | C7H16   | 000589-34-4 | 90   |
| 4    |    | Heptane            | 100 | C7H16   | 000142-82-5 | 80   |
| 5    |    | Heptane, 4-methyl- | 114 | C8H18   | 000589-53-7 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

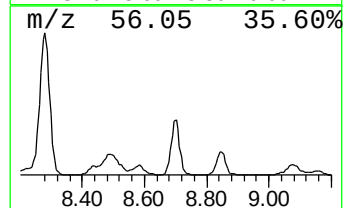
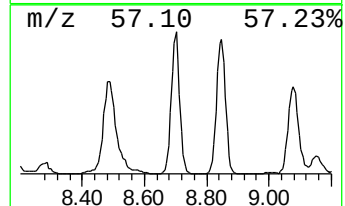
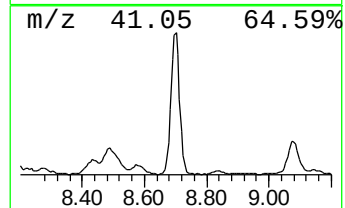
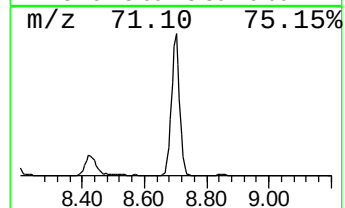
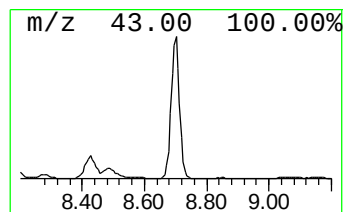
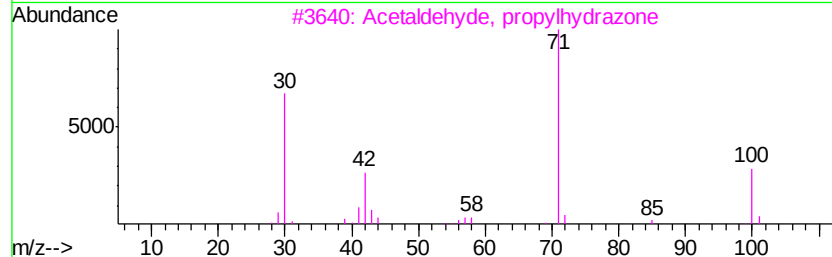
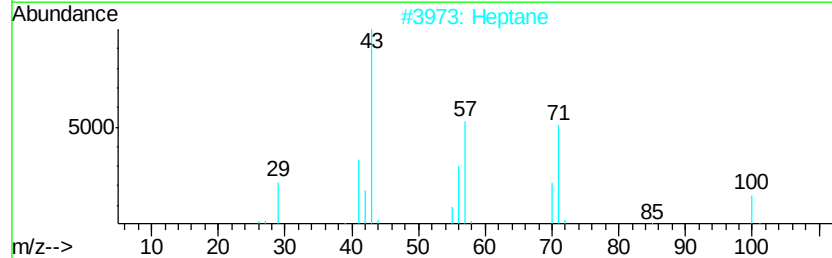
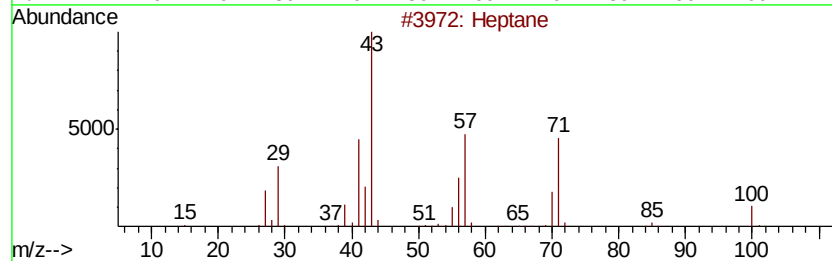
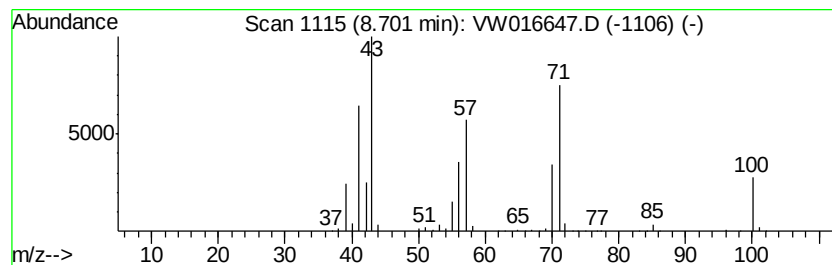
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.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 37

| R.T.      | EstConc                       | Area   | Relative to ISTD    | R.T.        |      |
|-----------|-------------------------------|--------|---------------------|-------------|------|
| 8.70      | 7.74 ug/L                     | 460769 | 1,4-Difluorobenzene | 8.85        |      |
| Hit# of 5 | Tentative ID                  | MW     | MolForm             | CAS#        | Qual |
| 1         | Heptane                       | 100    | C7H16               | 000142-82-5 | 91   |
| 2         | Heptane                       | 100    | C7H16               | 000142-82-5 | 58   |
| 3         | Acetaldehyde, propylhydrazone | 100    | C5H12N2             | 007422-88-0 | 53   |
| 4         | Heptane                       | 100    | C7H16               | 000142-82-5 | 53   |
| 5         | Heptane                       | 100    | C7H16               | 000142-82-5 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

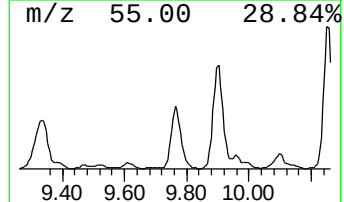
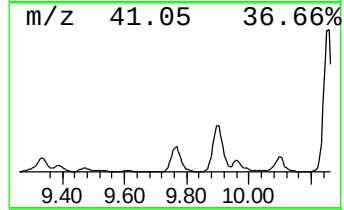
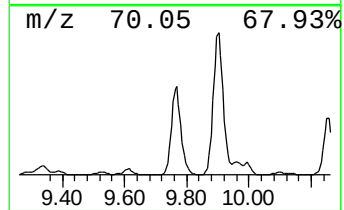
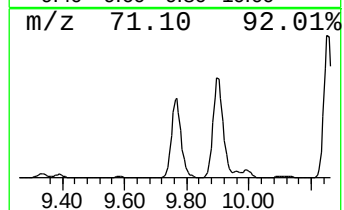
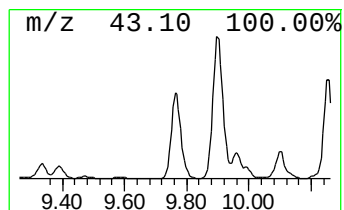
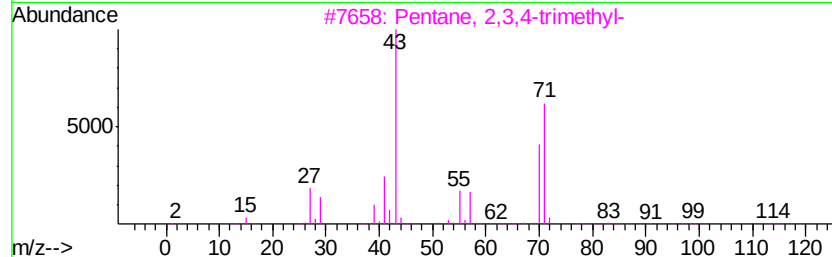
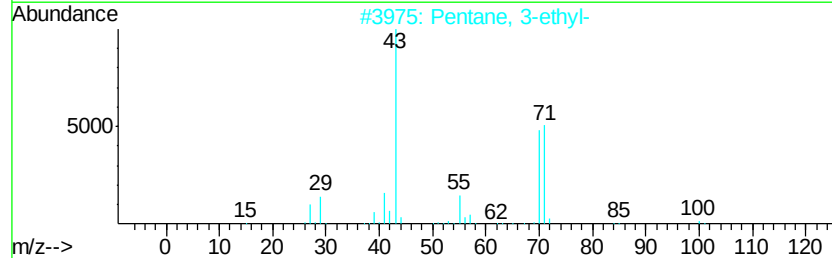
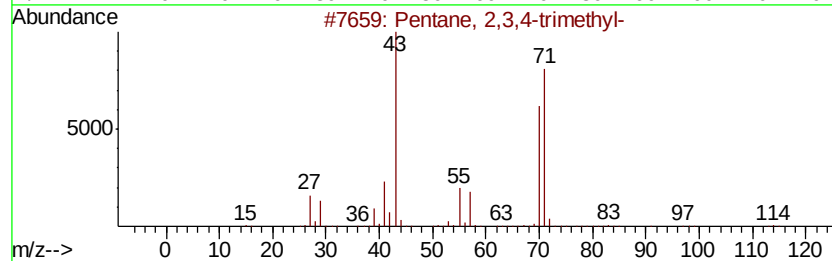
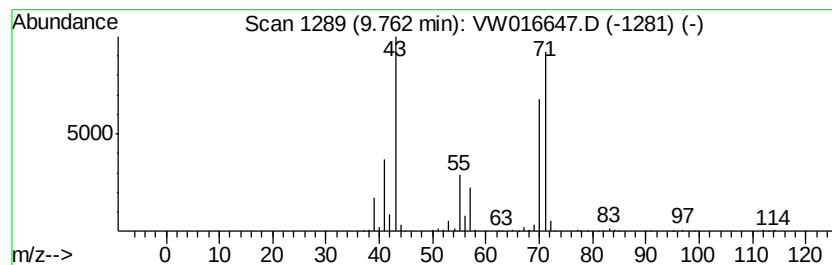
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 29

| R.T. | EstConc    | Area   | Relative to ISTD    | R.T. |
|------|------------|--------|---------------------|------|
| 9.76 | 11.14 ug/L | 663006 | 1,4-Difluorobenzene | 8.85 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 91   |
| 2    |    | Pentane, 3-ethyl-         | 100 | C7H16   | 000617-78-7 | 83   |
| 3    |    | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 80   |
| 4    |    | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 80   |
| 5    |    | Hexane, 3-methyl-         | 100 | C7H16   | 000589-34-4 | 78   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

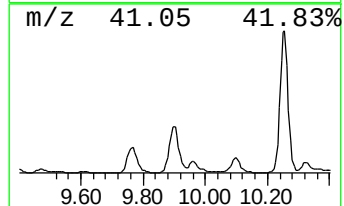
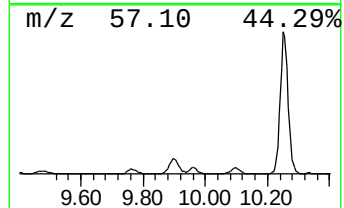
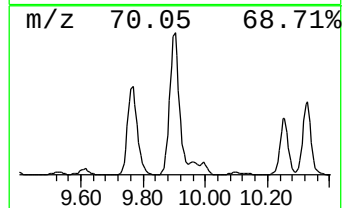
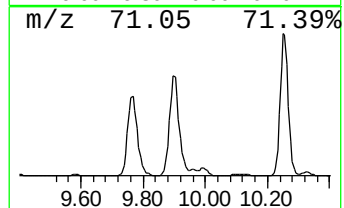
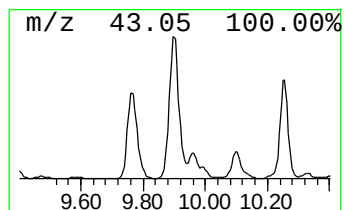
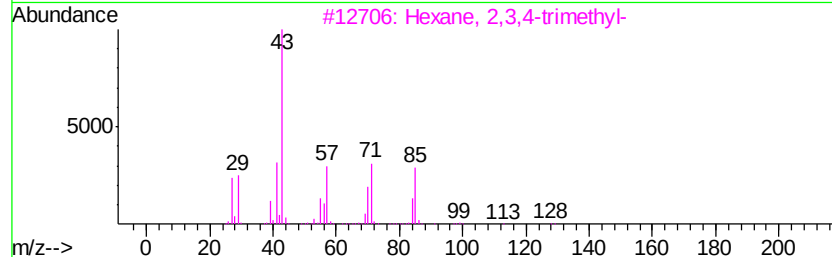
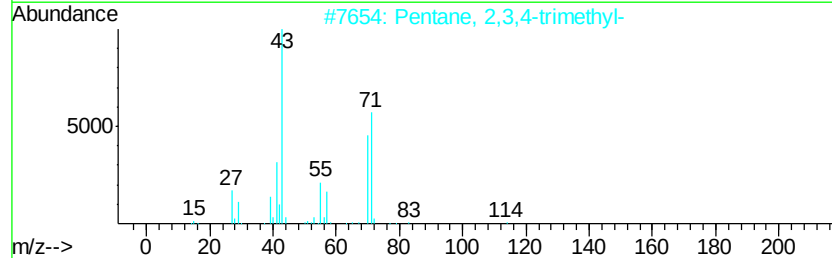
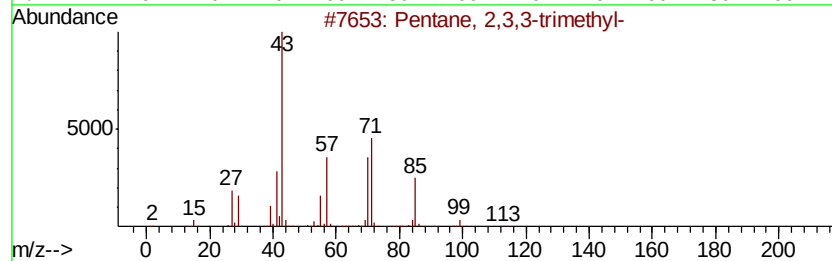
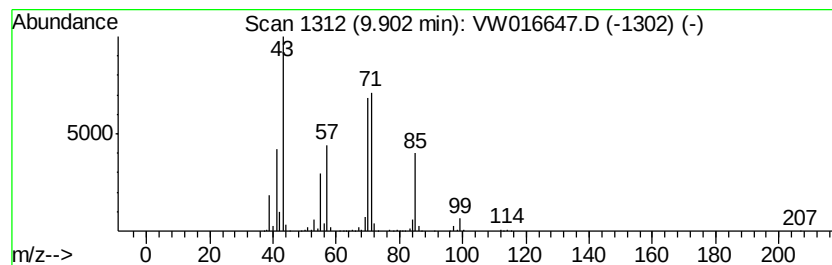
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 22

| R.T. | EstConc    | Area    | Relative to ISTD    | R.T. |
|------|------------|---------|---------------------|------|
| 9.90 | 21.21 ug/L | 1262490 | 1,4-Difluorobenzene | 8.85 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,3,3-trimethyl- | 114 | C8H18   | 000560-21-4 | 90   |
| 2    |    | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 70   |
| 3    |    | Hexane, 2,3,4-trimethyl-  | 128 | C9H20   | 000921-47-1 | 59   |
| 4    |    | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 58   |
| 5    |    | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

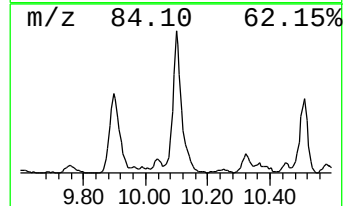
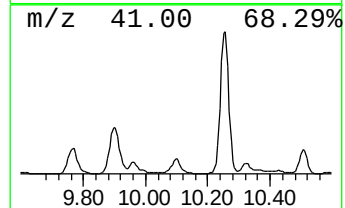
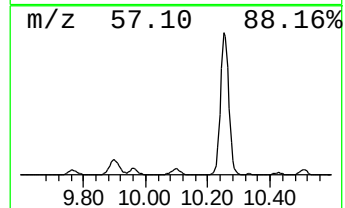
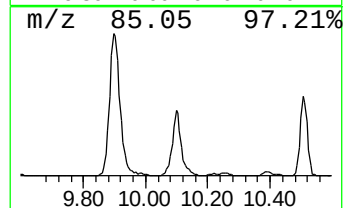
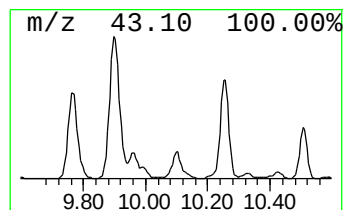
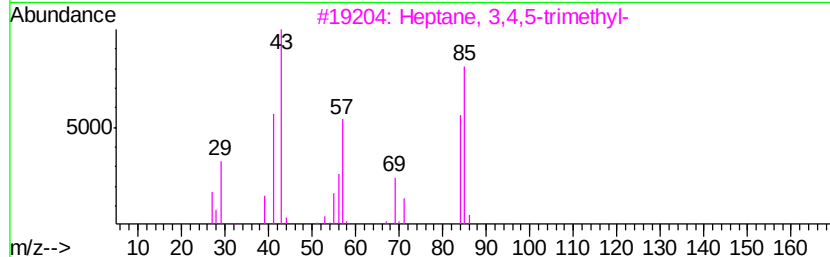
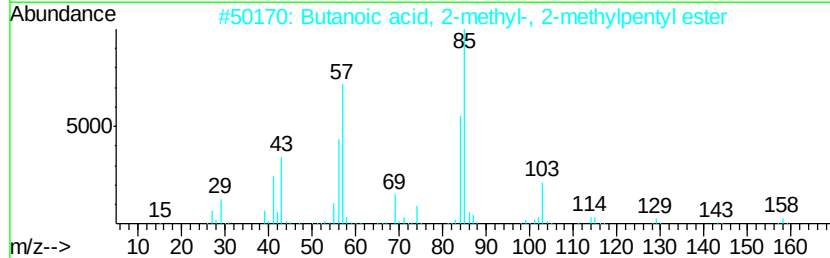
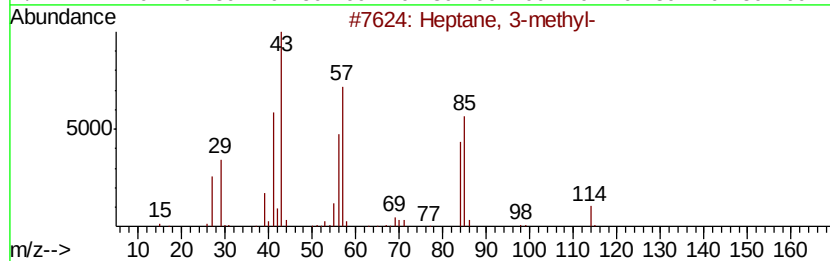
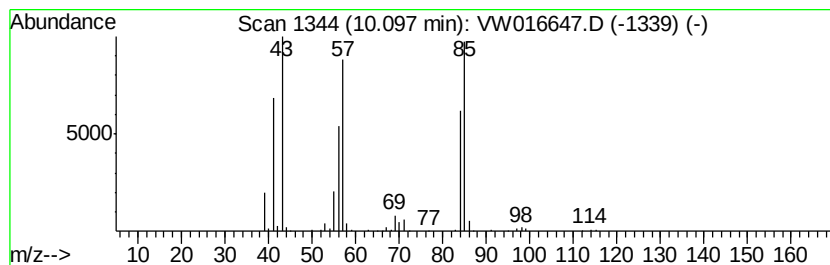
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 43

| R.T.  | EstConc   | Area   | Relative to ISTD    | R.T. |
|-------|-----------|--------|---------------------|------|
| 10.10 | 5.10 ug/L | 303731 | 1,4-Difluorobenzene | 8.85 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Heptane, 3-methyl-                  | 114 | C8H18    | 000589-81-1 | 83   |
| 2    |    |   | Butanoic acid, 2-methyl-, 2-meth... | 186 | C11H22O2 | 083783-88-4 | 72   |
| 3    |    |   | Heptane, 3,4,5-trimethyl-           | 142 | C10H22   | 020278-89-1 | 64   |
| 4    |    |   | Pentane, 3-ethyl-2,4-dimethyl-      | 128 | C9H20    | 001068-87-7 | 59   |
| 5    |    |   | Heptane, 3-methyl-                  | 114 | C8H18    | 000589-81-1 | 56   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

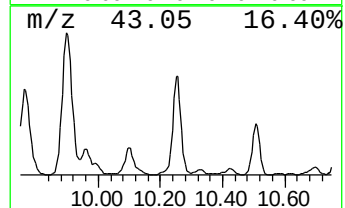
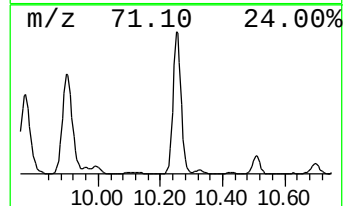
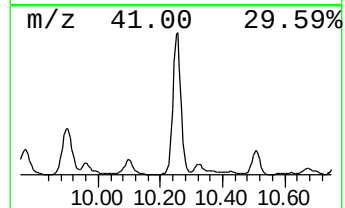
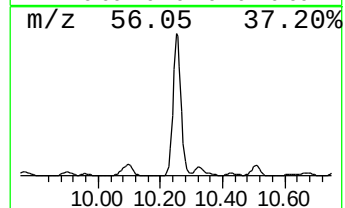
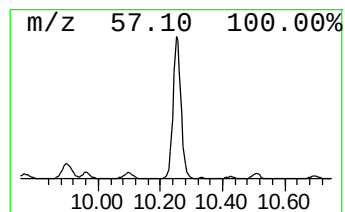
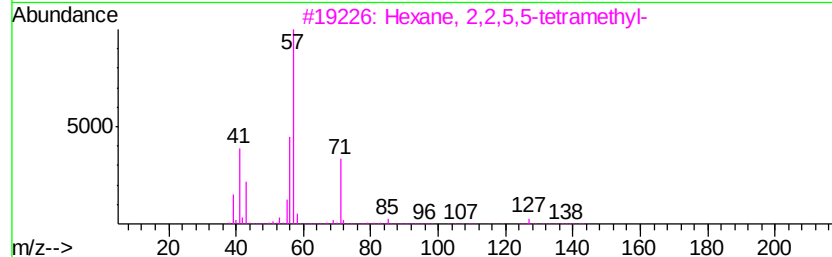
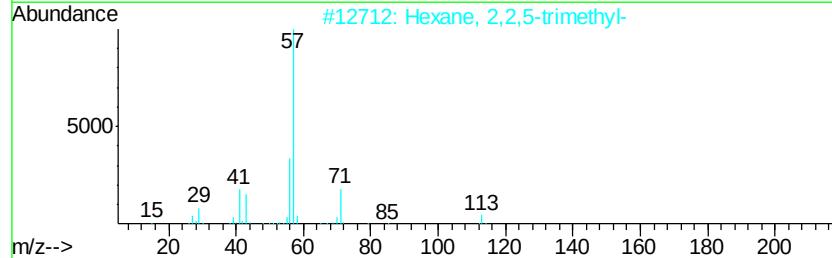
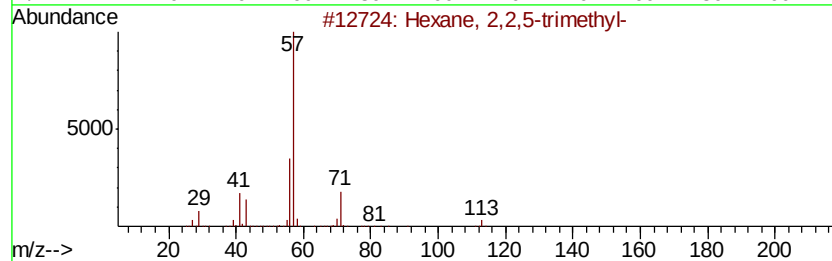
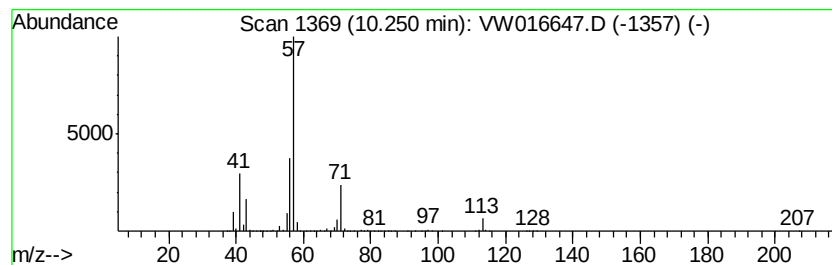
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 19

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 10.25 | 28.36 ug/L | 2445770 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexane, 2,2,5-trimethyl-     | 128 | C9H20   | 003522-94-9 | 78   |
| 2    |    | Hexane, 2,2,5-trimethyl-     | 128 | C9H20   | 003522-94-9 | 74   |
| 3    |    | Hexane, 2,2,5,5-tetramethyl- | 142 | C10H22  | 001071-81-4 | 64   |
| 4    |    | Hexane, 2,2,5-trimethyl-     | 128 | C9H20   | 003522-94-9 | 64   |
| 5    |    | Hexane, 2,2,4-trimethyl-     | 128 | C9H20   | 016747-26-5 | 64   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

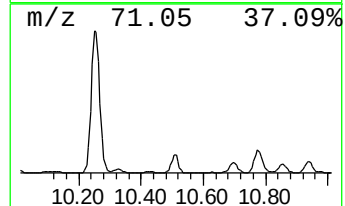
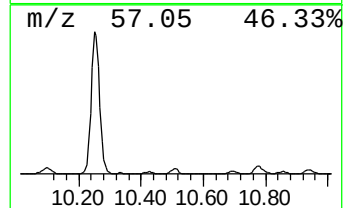
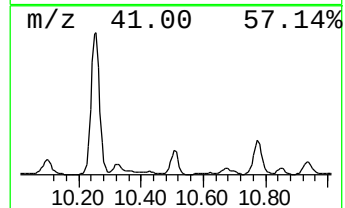
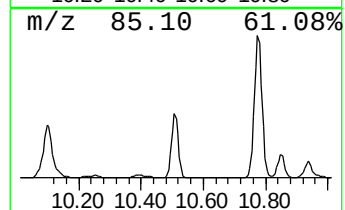
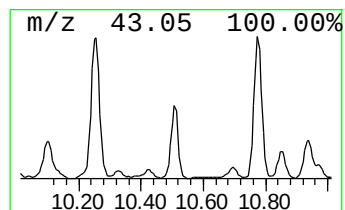
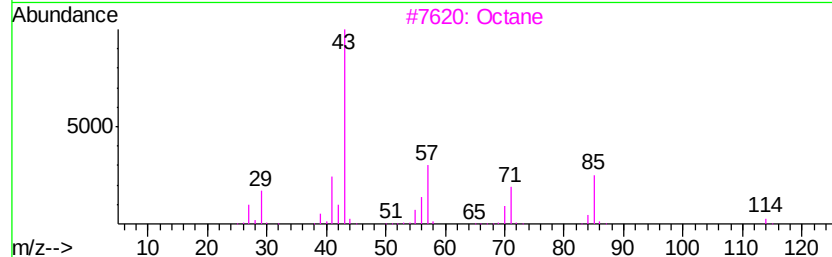
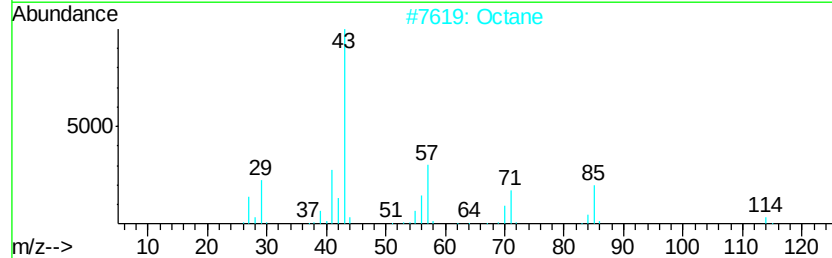
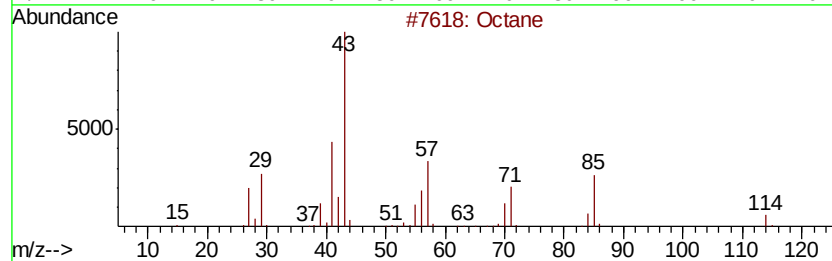
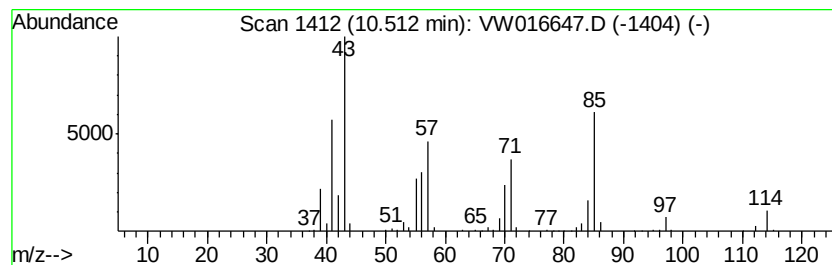
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 46

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 10.51 | 4.56 ug/L | 392962 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Octane                 | 114 | C8H18   | 000111-65-9 | 90   |
| 2    |    |   | Octane                 | 114 | C8H18   | 000111-65-9 | 87   |
| 3    |    |   | Octane                 | 114 | C8H18   | 000111-65-9 | 83   |
| 4    |    |   | Heptane, 2,4-dimethyl- | 128 | C9H20   | 002213-23-2 | 64   |
| 5    |    |   | Heptane, 2,3-dimethyl- | 128 | C9H20   | 003074-71-3 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

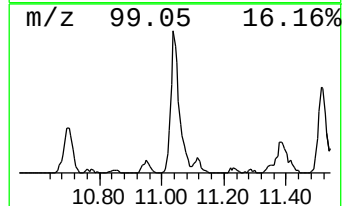
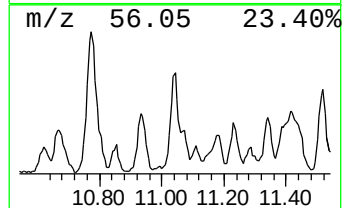
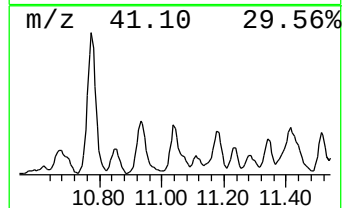
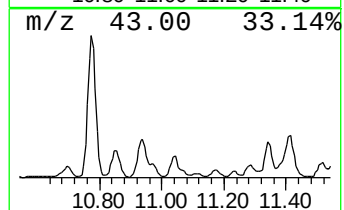
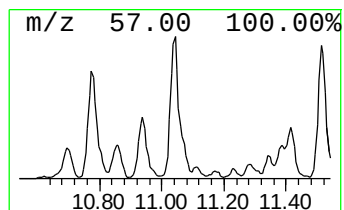
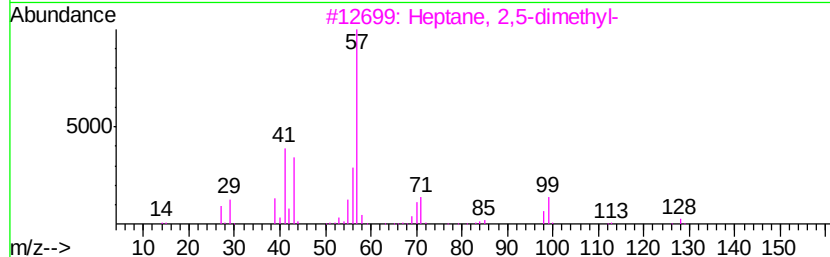
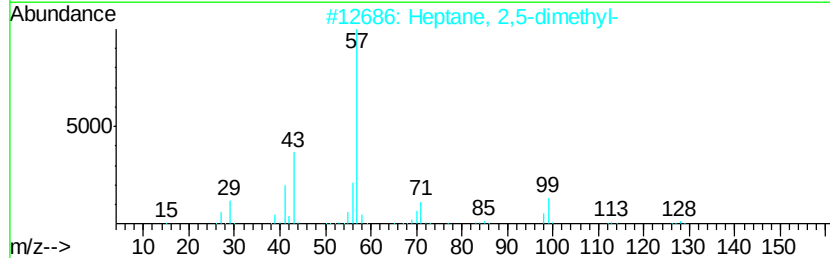
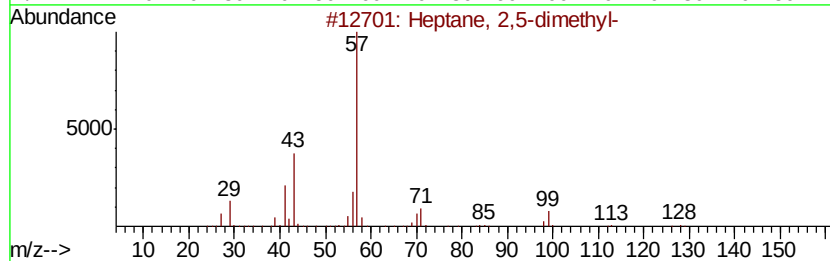
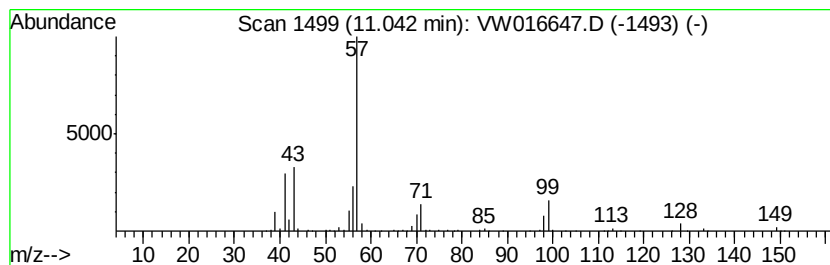
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 52

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 11.04 | 2.29 ug/L | 197245 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptane, 2,5-dimethyl- | 128 | C9H20   | 002216-30-0 | 80   |
| 2    |    | Heptane, 2,5-dimethyl- | 128 | C9H20   | 002216-30-0 | 56   |
| 3    |    | Heptane, 2,5-dimethyl- | 128 | C9H20   | 002216-30-0 | 53   |
| 4    |    | Heptane, 3,5-dimethyl- | 128 | C9H20   | 000926-82-9 | 53   |
| 5    |    | Heptane, 3,5-dimethyl- | 128 | C9H20   | 000926-82-9 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

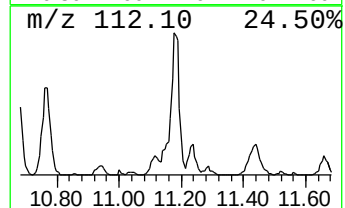
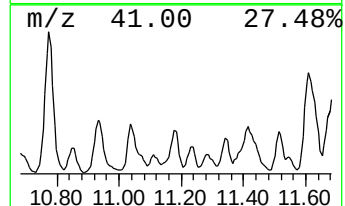
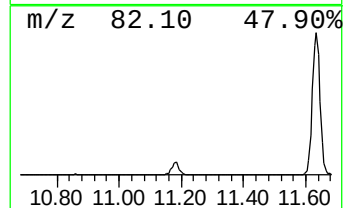
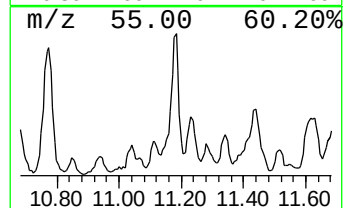
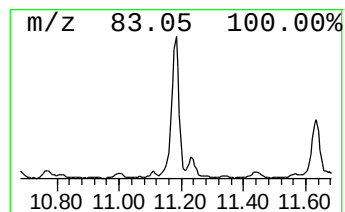
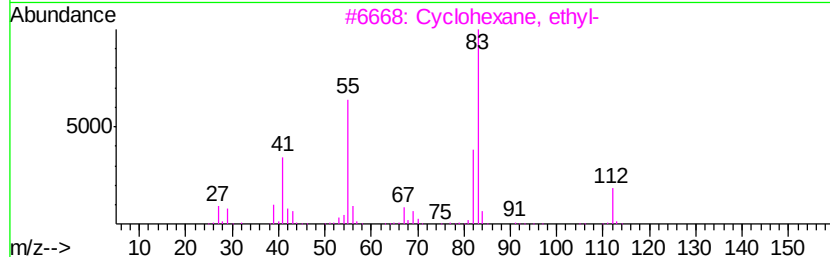
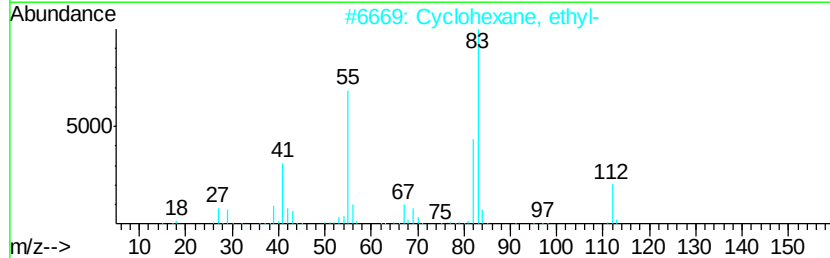
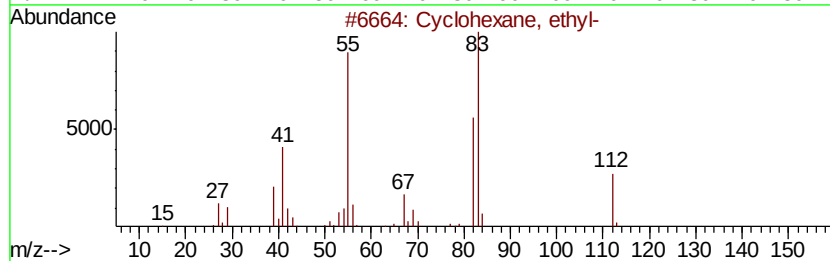
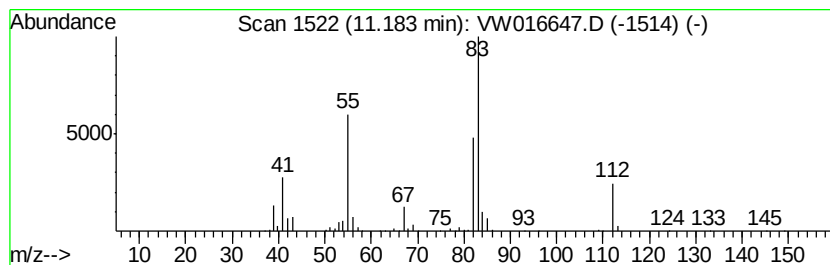
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

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

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Peak Number 16 (DEL) Alkane: Cyclic11.18 Concentration Rank 53

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 11.18     | 2.18 ug/L           | 187909 | Chlorobenzene-d5 | 11.63       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | Cyclohexane, ethyl- | 112    | C8H16            | 001678-91-7 | 91   |
| 2         | Cyclohexane, ethyl- | 112    | C8H16            | 001678-91-7 | 91   |
| 3         | Cyclohexane, ethyl- | 112    | C8H16            | 001678-91-7 | 91   |
| 4         | Cyclohexane, ethyl- | 112    | C8H16            | 001678-91-7 | 87   |
| 5         | Cyclohexane, ethyl- | 112    | C8H16            | 001678-91-7 | 86   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

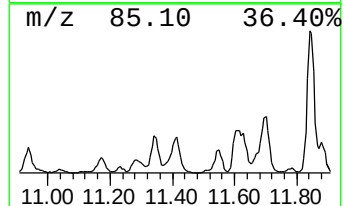
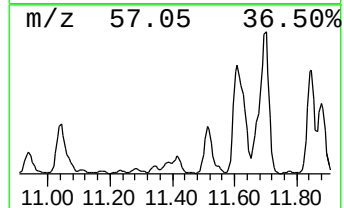
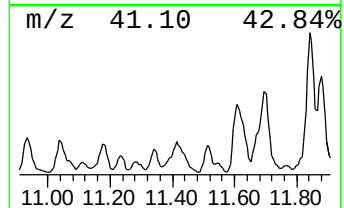
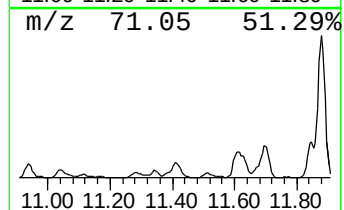
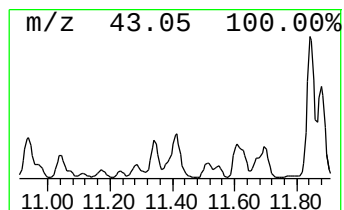
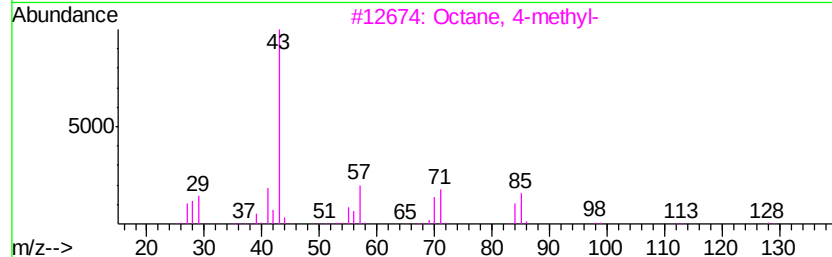
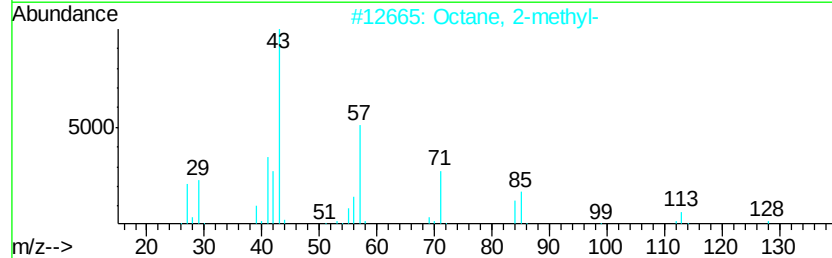
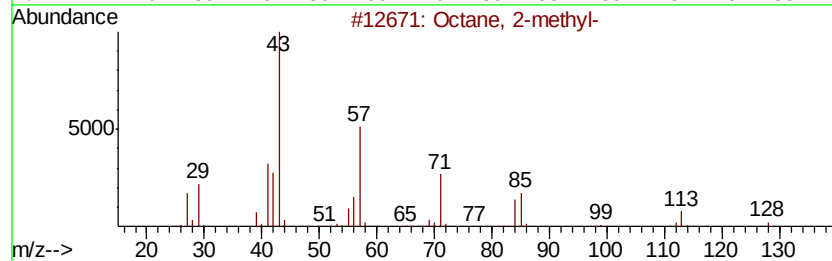
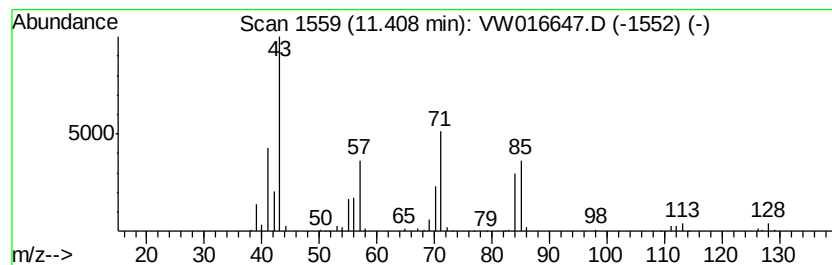
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 45

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 11.41 | 4.60 ug/L | 396943 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Octane, 2-methyl-                   | 128 | C9H20    | 003221-61-2  | 86   |
| 2    |    |   | Octane, 2-methyl-                   | 128 | C9H20    | 003221-61-2  | 78   |
| 3    |    |   | Octane, 4-methyl-                   | 128 | C9H20    | 002216-34-4  | 59   |
| 4    |    |   | Undecane, 5,7-dimethyl-             | 184 | C13H28   | 017312-83-3  | 50   |
| 5    |    |   | Oxalic acid, 6-ethyloct-3-yl hex... | 314 | C18H34O4 | 1000309-34-4 | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

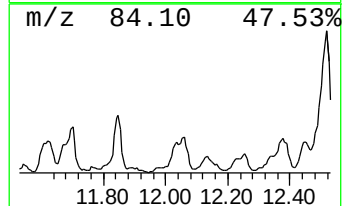
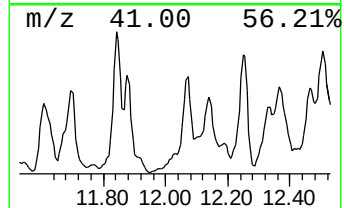
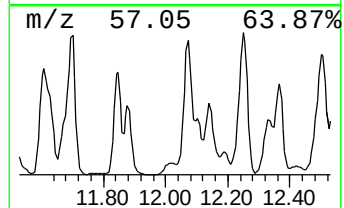
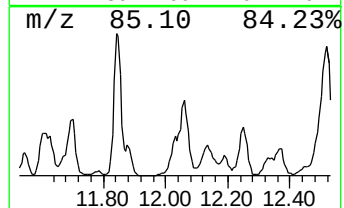
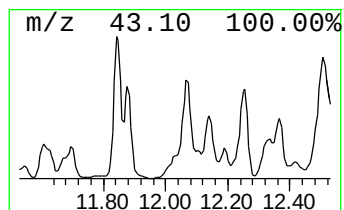
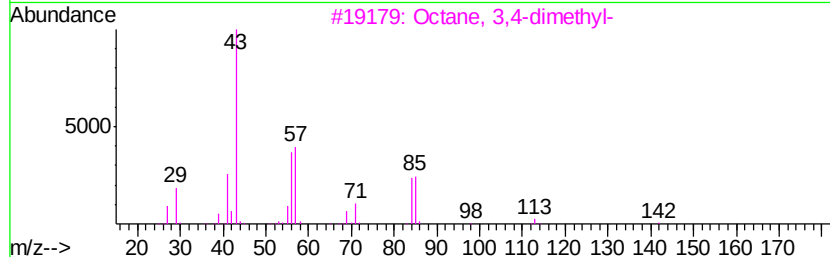
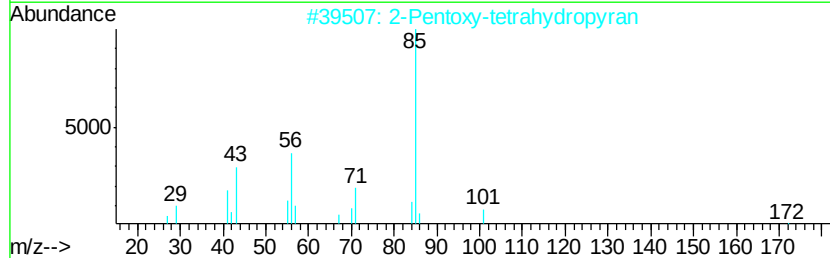
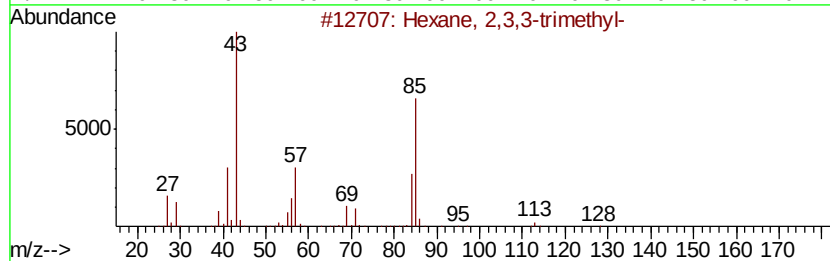
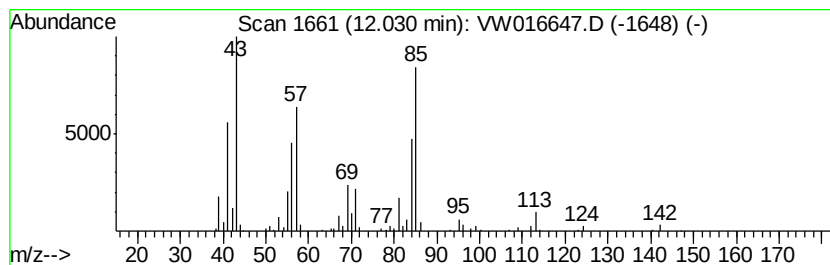
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 56

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 12.03 | 2.00 ug/L | 172685 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID              | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexane, 2,3,3-trimethyl-  | 128 | C9H20    | 016747-28-7 | 59   |
| 2    |    | 2-Pentoxv-tetrahydropyran | 172 | C10H20O2 | 032767-70-7 | 53   |
| 3    |    | Octane, 3,4-dimethyl-     | 142 | C10H22   | 015869-92-8 | 53   |
| 4    |    | 4-Methylpentyl pentanoate | 186 | C11H22O2 | 035852-47-2 | 53   |
| 5    |    | Heptane, 3,4,5-trimethyl- | 142 | C10H22   | 020278-89-1 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

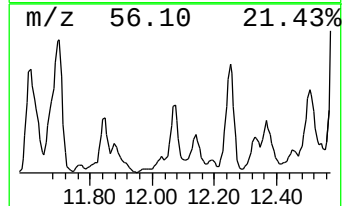
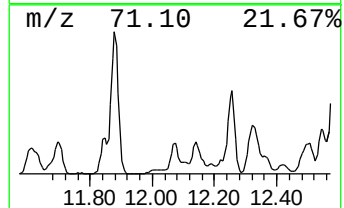
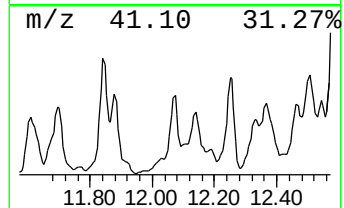
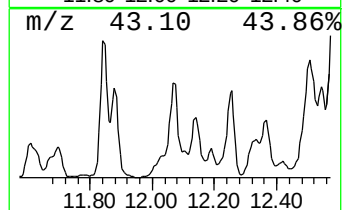
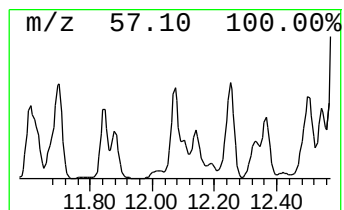
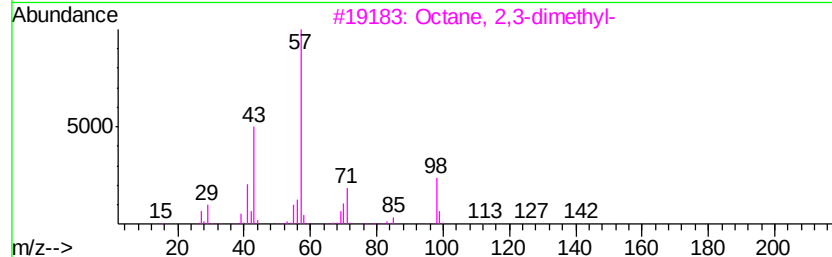
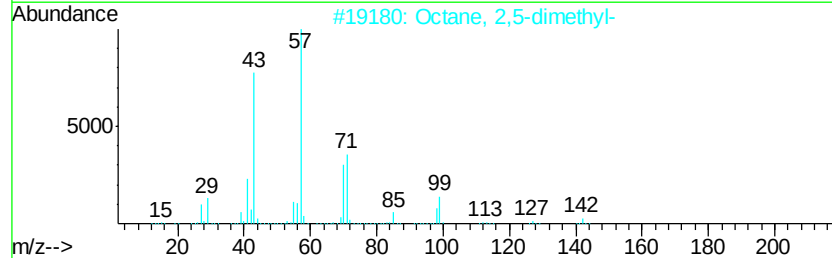
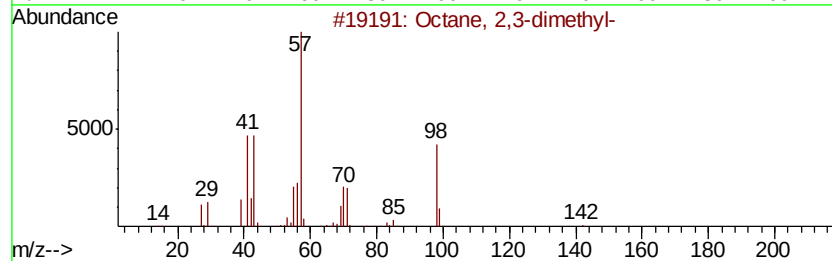
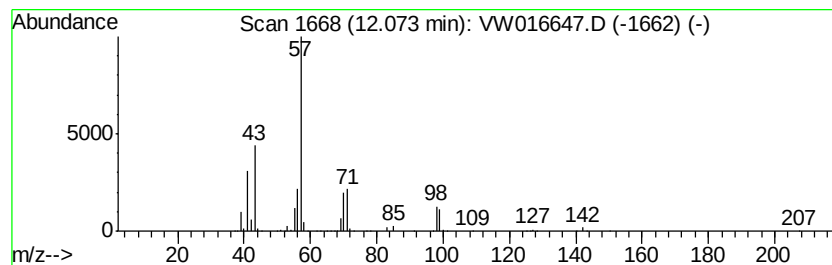
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 42

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 12.07 | 5.47 ug/L | 471747 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Octane, 2,3-dimethyl-  | 142 | C10H22  | 007146-60-3 | 64   |
| 2    |    | Octane, 2,5-dimethyl-  | 142 | C10H22  | 015869-89-3 | 58   |
| 3    |    | Octane, 2,3-dimethyl-  | 142 | C10H22  | 007146-60-3 | 53   |
| 4    |    | Heptane, 2,5-dimethyl- | 128 | C9H20   | 002216-30-0 | 53   |
| 5    |    | Heptane, 3-ethyl-      | 128 | C9H20   | 015869-80-4 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

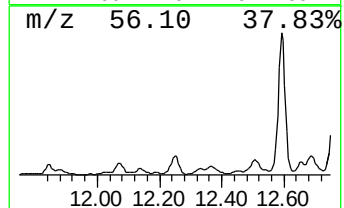
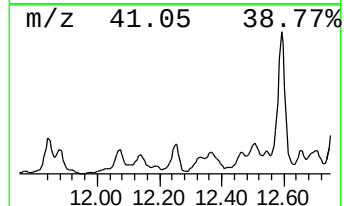
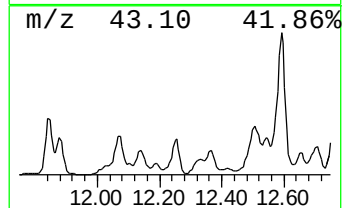
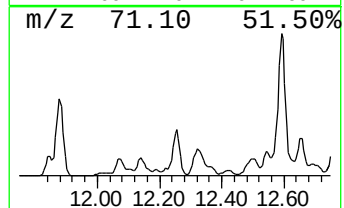
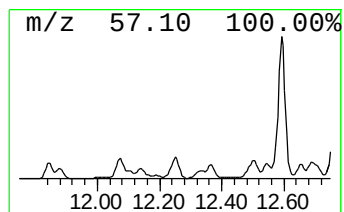
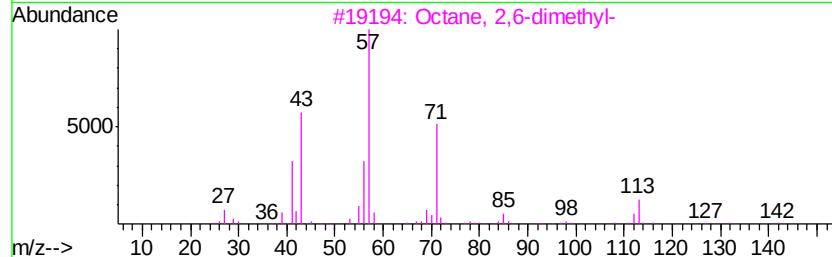
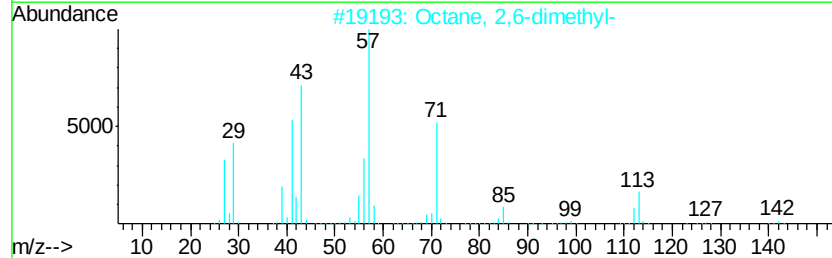
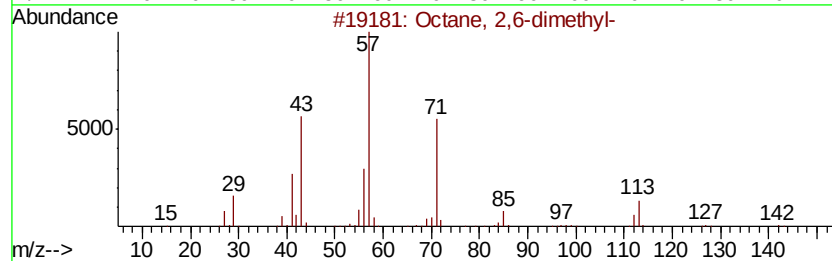
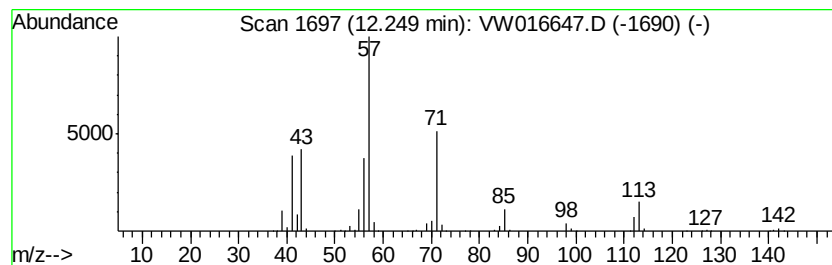
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 33

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 12.25 | 8.82 ug/L | 760311 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 94   |
| 2    |    |   | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 91   |
| 3    |    |   | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 91   |
| 4    |    |   | Octane, 2,6-dimethyl- | 142 | C10H22  | 002051-30-1 | 83   |
| 5    |    |   | Octane, 3,6-dimethyl- | 142 | C10H22  | 015869-94-0 | 80   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

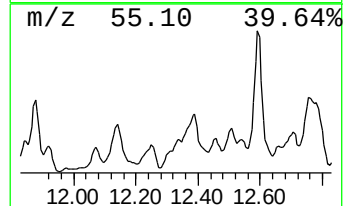
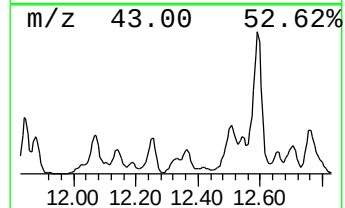
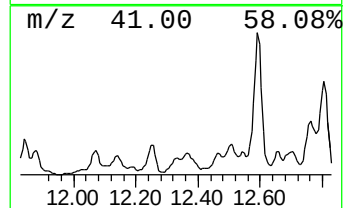
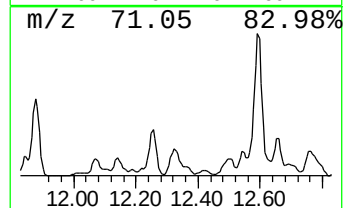
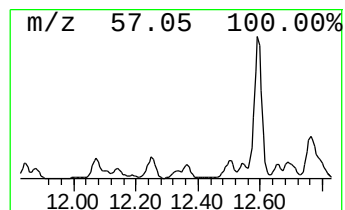
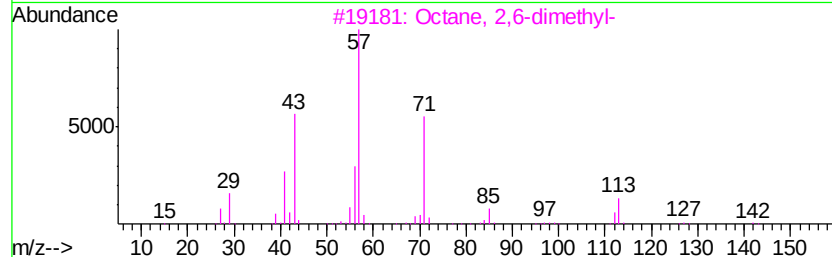
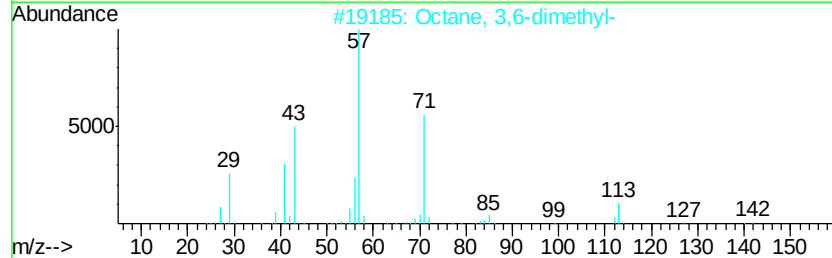
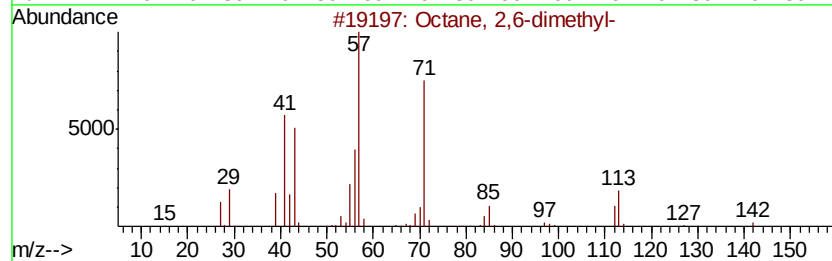
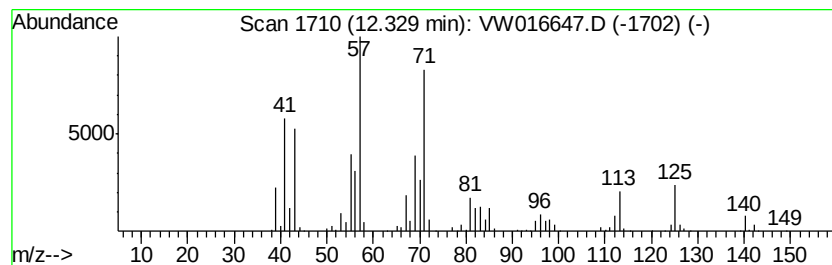
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 21 (DEL) Alkane: Straight-Chai... Concentration Rank 39

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 12.33 | 7.01 ug/L | 604923 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Octane, 2,6-dimethyl-               | 142 | C10H22    | 002051-30-1  | 47   |
| 2    |    |   | Octane, 3,6-dimethyl-               | 142 | C10H22    | 015869-94-0  | 46   |
| 3    |    |   | Octane, 2,6-dimethyl-               | 142 | C10H22    | 002051-30-1  | 43   |
| 4    |    |   | Nonane, 3-methyl-                   | 142 | C10H22    | 005911-04-6  | 43   |
| 5    |    |   | Sulfurous acid, 2-ethylhexyl hex... | 418 | C24H50O3S | 1000309-19-9 | 43   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

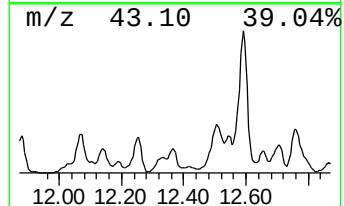
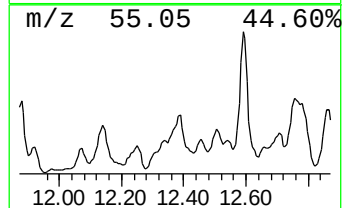
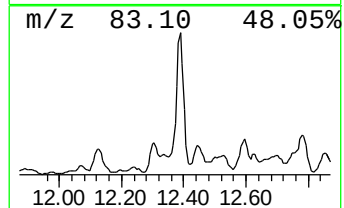
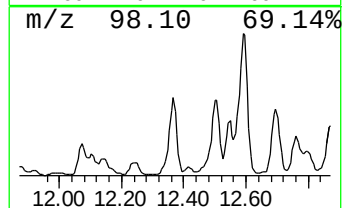
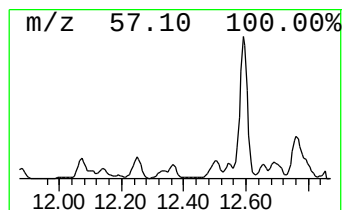
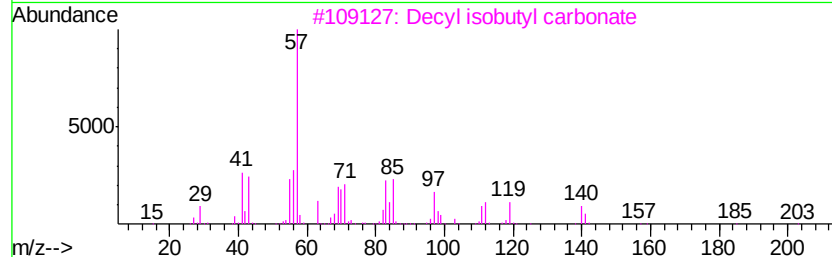
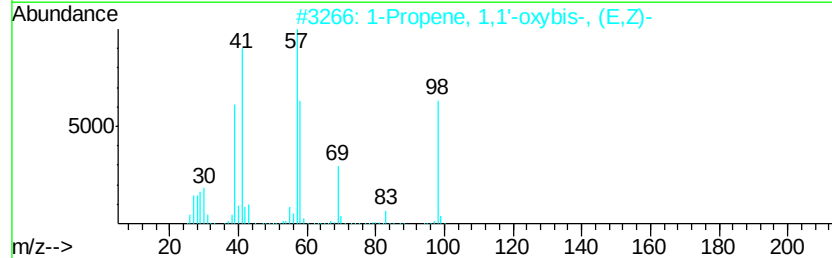
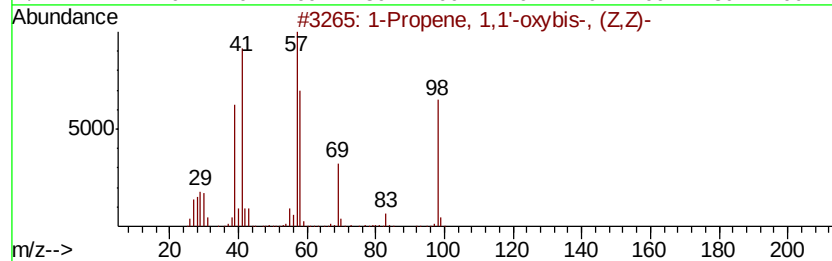
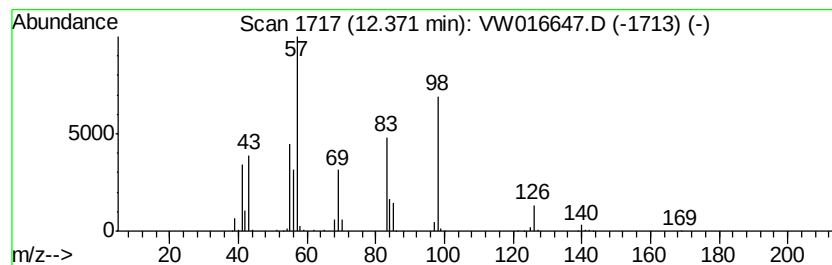
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 22 1-Propene, 1,1'-oxybis-, (Z... Concentration Rank 41

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 12.37 | 5.74 ug/L | 495509 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                    | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1-Propene, 1,1'-oxybis-, (Z,Z)- | 98  | C6H100   | 004696-27-9 | 50   |
| 2    |    | 1-Propene, 1,1'-oxybis-, (E,Z)- | 98  | C6H100   | 004696-29-1 | 50   |
| 3    |    | Decyl isobutyl carbonate        | 258 | C15H3003 | 959226-07-4 | 47   |
| 4    |    | 1,3-Diethoxy-2-methylenepropene | 144 | C8H1602  | 025307-84-0 | 47   |
| 5    |    | Octane, 2,3-dimethyl-           | 142 | C10H22   | 007146-60-3 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

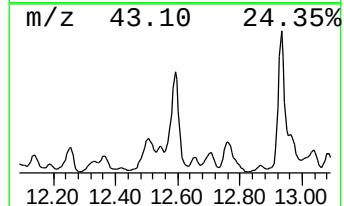
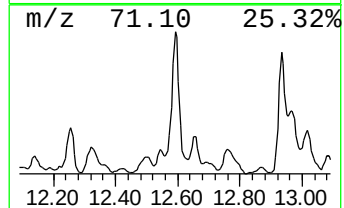
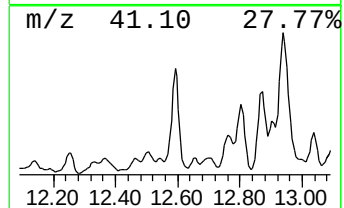
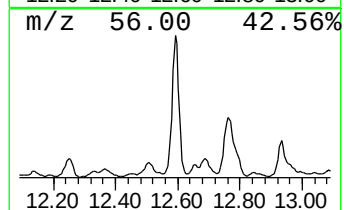
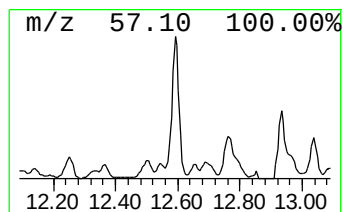
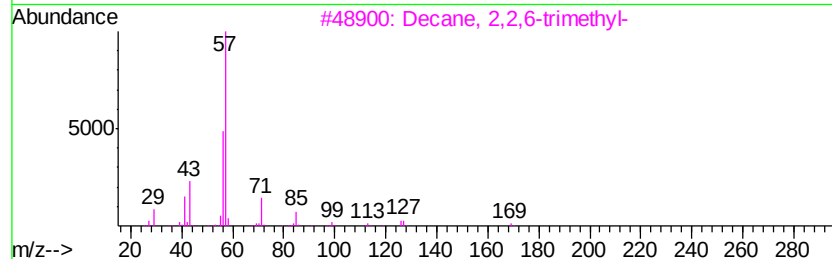
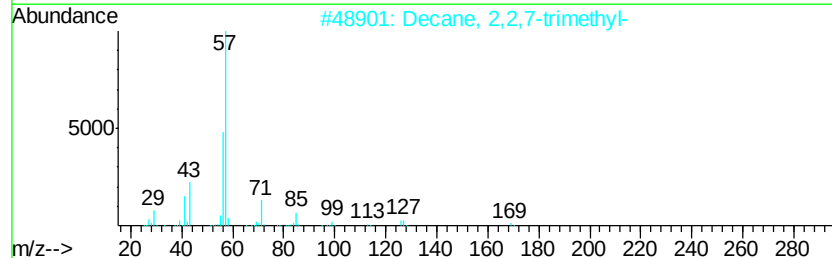
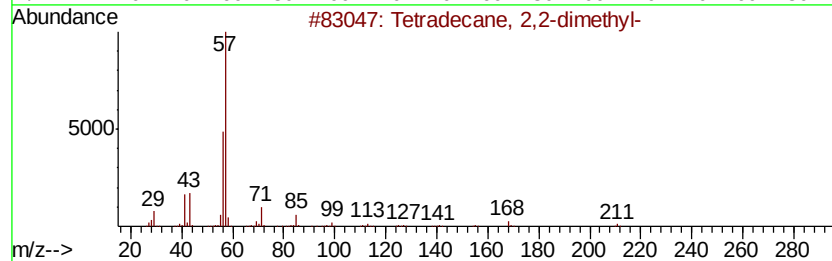
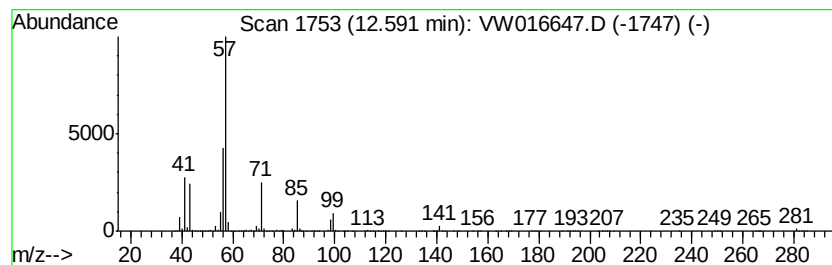
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 23 (DEL) Alkane: Straight-Chai... Concentration Rank 14

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 12.59 | 41.17 ug/L | 3550900 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane, 2,2-dimethyl-   | 226 | C16H34  | 059222-86-5 | 64   |
| 2    |    | Decane, 2,2,7-trimethyl-     | 184 | C13H28  | 062237-99-4 | 53   |
| 3    |    | Decane, 2,2,6-trimethyl-     | 184 | C13H28  | 062237-97-2 | 53   |
| 4    |    | Hexane, 2,2,5,5-tetramethyl- | 142 | C10H22  | 001071-81-4 | 53   |
| 5    |    | 2,2,6,6-Tetramethylheptane   | 156 | C11H24  | 040117-45-1 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

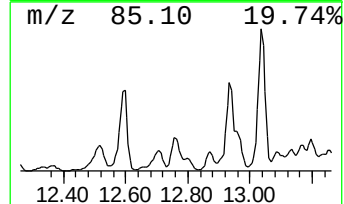
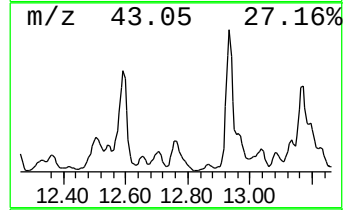
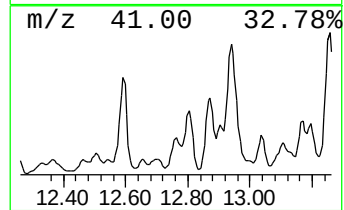
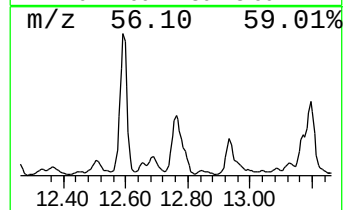
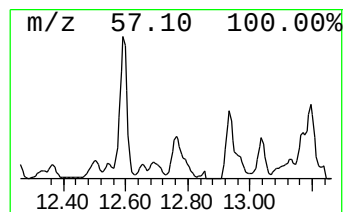
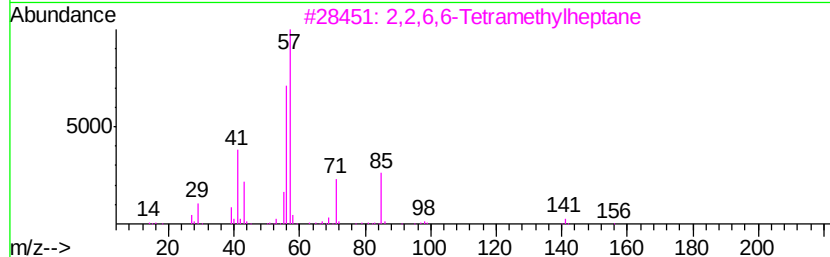
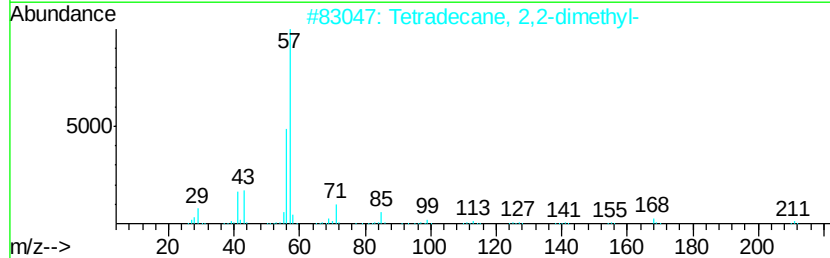
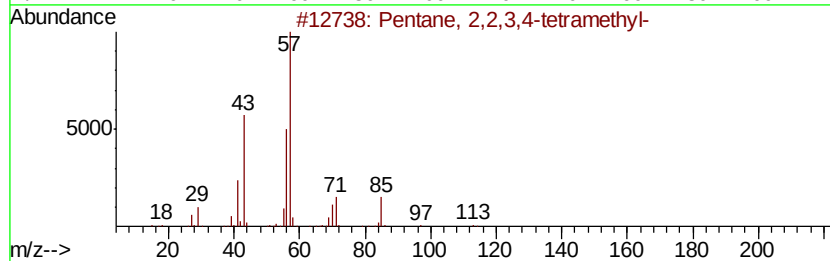
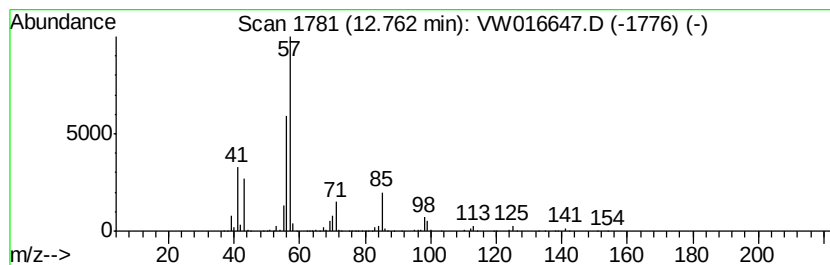
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 24 (DEL) Alkane: Straight-Chai... Concentration Rank 59

| R.T.  | EstConc   | Area    | Relative to ISTD       | R.T.  |
|-------|-----------|---------|------------------------|-------|
| 12.76 | 1.65 ug/L | 1136750 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,2,3,4-tetramethyl- | 128 | C9H20   | 001186-53-4 | 64   |
| 2    |    | Tetradecane, 2,2-dimethyl-    | 226 | C16H34  | 059222-86-5 | 64   |
| 3    |    | 2,2,6,6-Tetramethylheptane    | 156 | C11H24  | 040117-45-1 | 59   |
| 4    |    | Octane, 2,2-dimethyl-         | 142 | C10H22  | 015869-87-1 | 50   |
| 5    |    | Acetamide, N-2-propenyl-      | 99  | C5H9NO  | 000692-33-1 | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

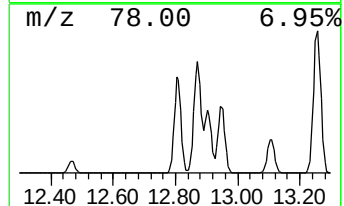
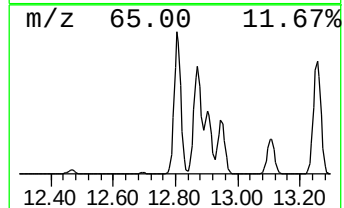
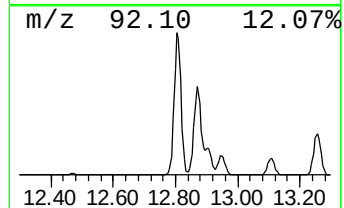
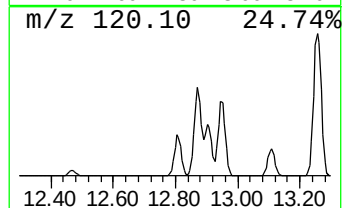
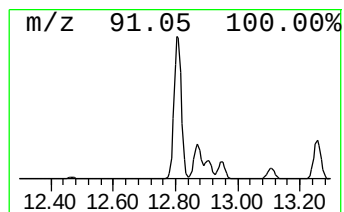
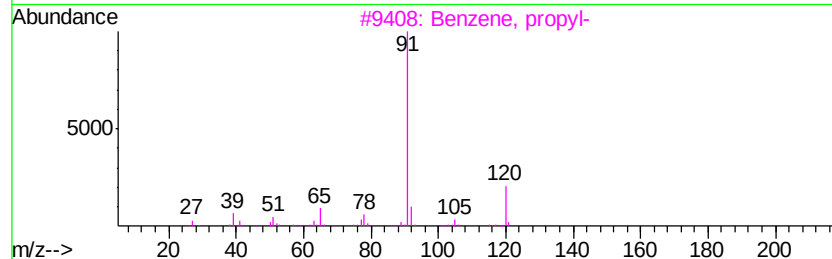
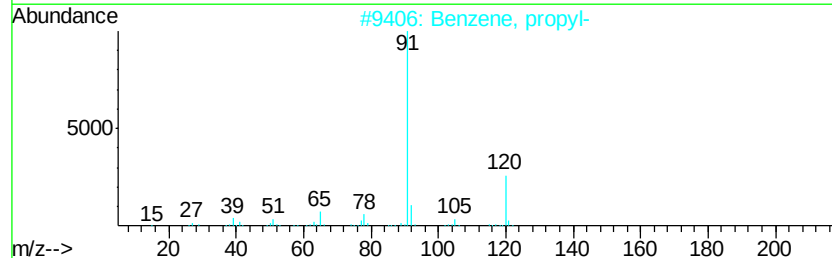
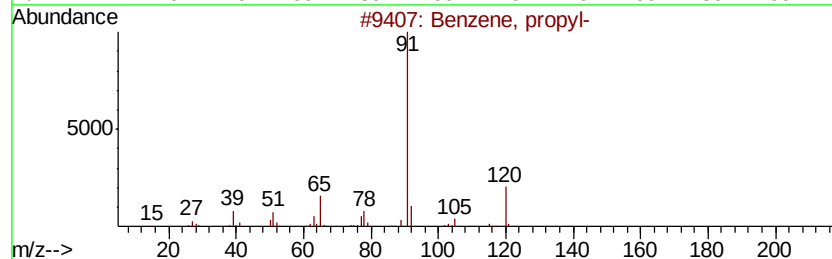
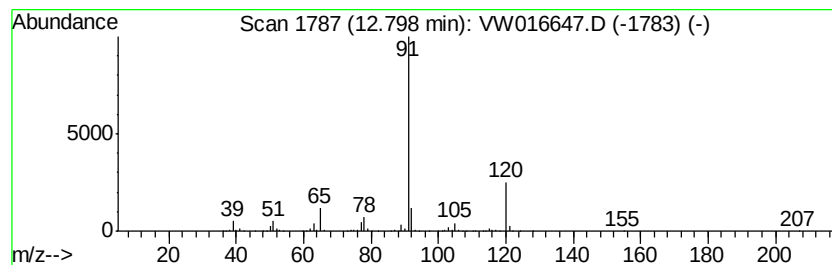
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 25 Benzene, propyl- Concentration Rank 17

| R.T.    | EstConc    | Area                      | Relative to ISTD       | R.T.           |
|---------|------------|---------------------------|------------------------|----------------|
| 12.80   | 35.65 ug/L | 24568800                  | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5          | Tentative ID              | MW MolForm             | CAS# Qual      |
| 1       |            | Benzene, propyl-          | 120 C9H12              | 000103-65-1 94 |
| 2       |            | Benzene, propyl-          | 120 C9H12              | 000103-65-1 90 |
| 3       |            | Benzene, propyl-          | 120 C9H12              | 000103-65-1 90 |
| 4       |            | N-Benzyl-2-phenethylamine | 211 C15H17N            | 003647-71-0 78 |
| 5       |            | N-Benzyl-2-phenethylamine | 211 C15H17N            | 003647-71-0 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

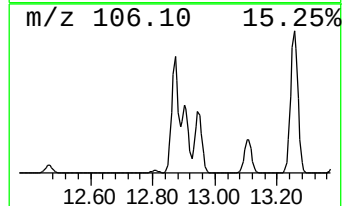
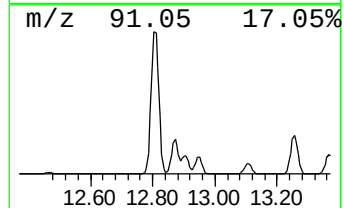
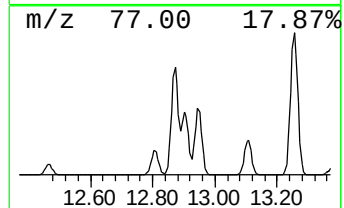
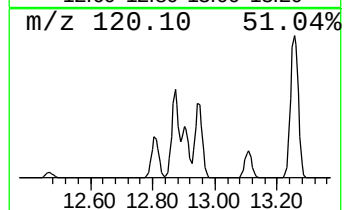
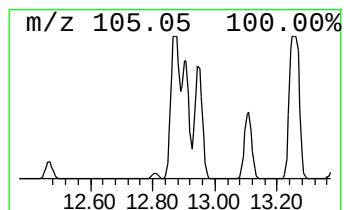
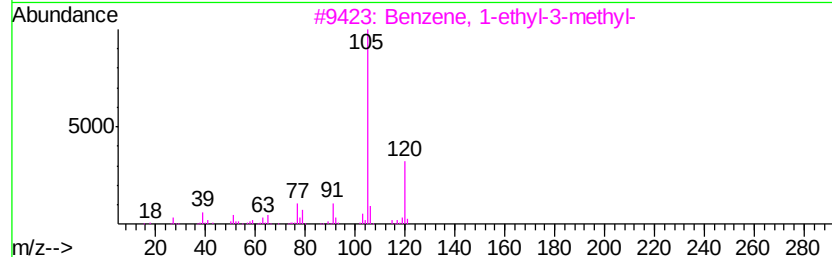
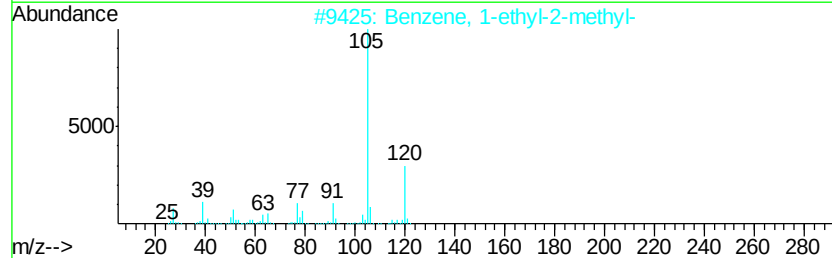
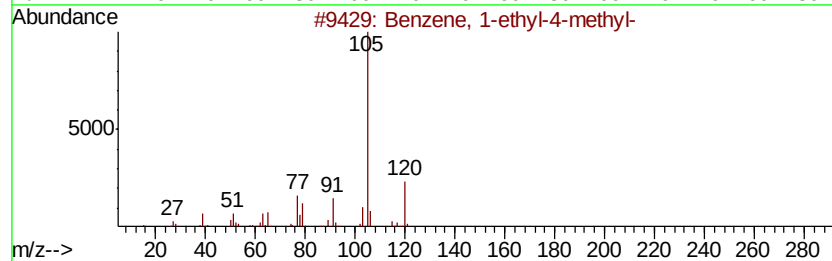
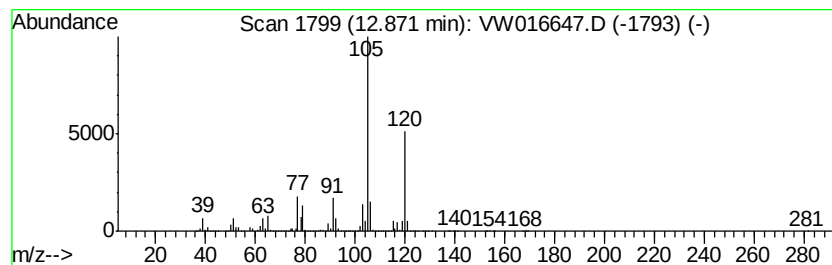
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.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-ethyl-4-methyl- Concentration Rank 7

| R.T.    | EstConc                    | Area         | Relative to ISTD       | R.T.      |
|---------|----------------------------|--------------|------------------------|-----------|
| 12.87   | 73.38 ug/L                 | 50567000     | 1,4-Dichlorobenzene-d4 | 13.56     |
| Hit# of | 5                          | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Benzene, 1-ethyl-4-methyl- | 120 C9H12    | 000622-96-8            | 90        |
| 2       | Benzene, 1-ethyl-2-methyl- | 120 C9H12    | 000611-14-3            | 90        |
| 3       | Benzene, 1-ethyl-3-methyl- | 120 C9H12    | 000620-14-4            | 90        |
| 4       | Benzene, 1,2,3-trimethyl-  | 120 C9H12    | 000526-73-8            | 90        |
| 5       | Benzene, 1-ethyl-3-methyl- | 120 C9H12    | 000620-14-4            | 90        |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

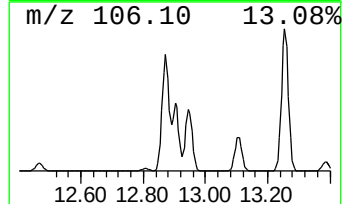
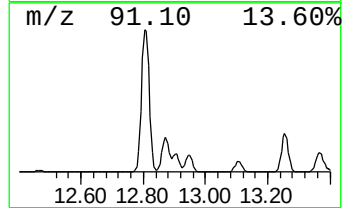
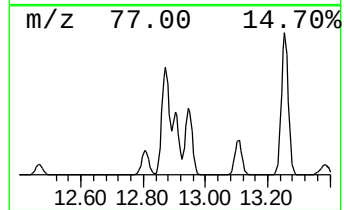
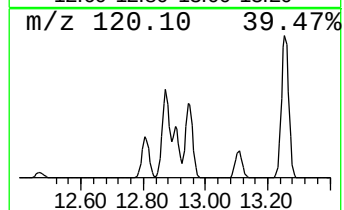
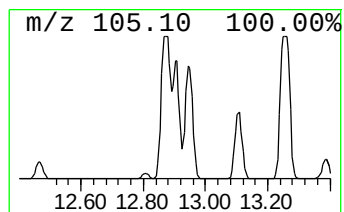
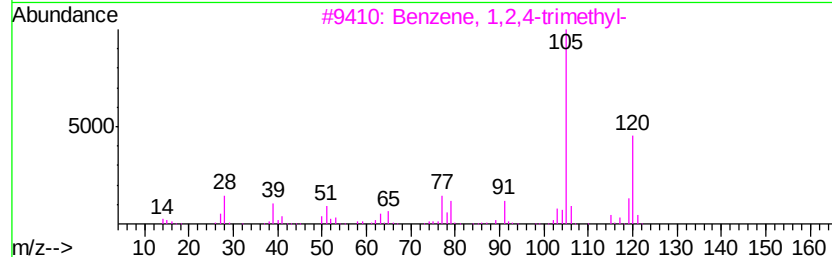
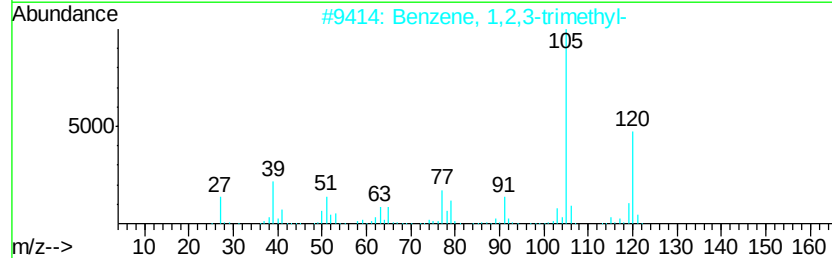
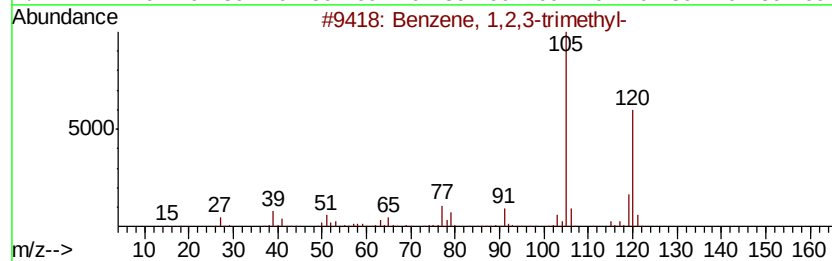
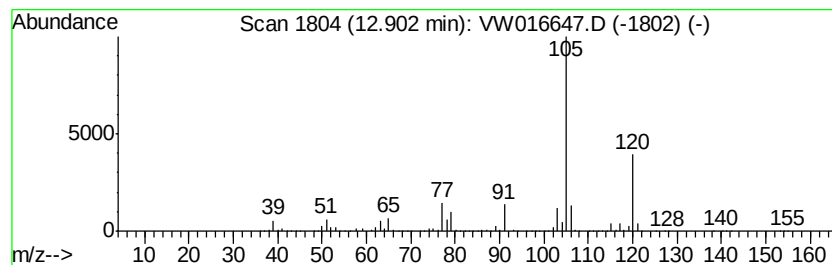
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 27 Benzene, 1,2,3-trimethyl- Concentration Rank 15

| R.T.    | EstConc    | Area                       | Relative to ISTD       | R.T.           |
|---------|------------|----------------------------|------------------------|----------------|
| 12.90   | 39.75 ug/L | 27395900                   | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5          | Tentative ID               | MW MolForm             | CAS# Qual      |
| 1       |            | Benzene, 1,2,3-trimethyl-  | 120 C9H12              | 000526-73-8 91 |
| 2       |            | Benzene, 1,2,3-trimethyl-  | 120 C9H12              | 000526-73-8 91 |
| 3       |            | Benzene, 1,2,4-trimethyl-  | 120 C9H12              | 000095-63-6 91 |
| 4       |            | Benzene, 1-ethyl-2-methyl- | 120 C9H12              | 000611-14-3 91 |
| 5       |            | Benzene, 1,2,3-trimethyl-  | 120 C9H12              | 000526-73-8 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

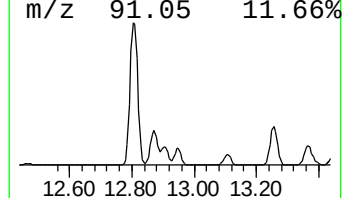
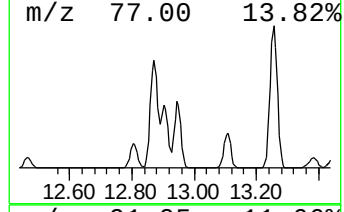
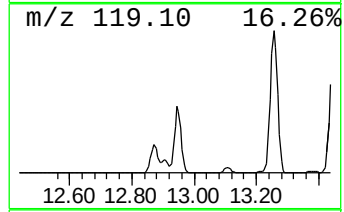
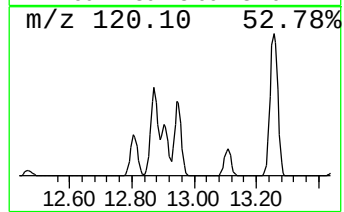
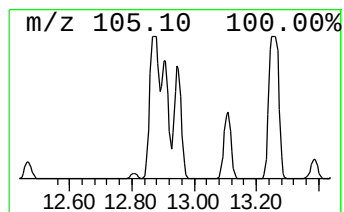
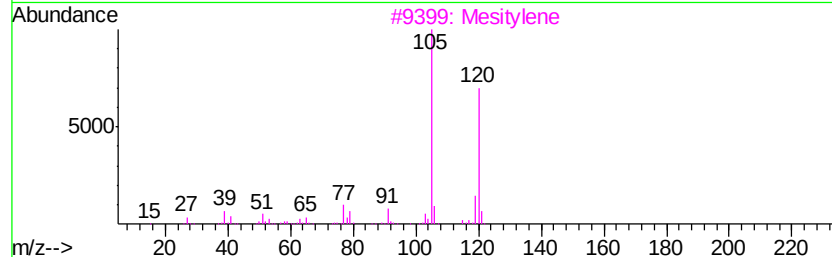
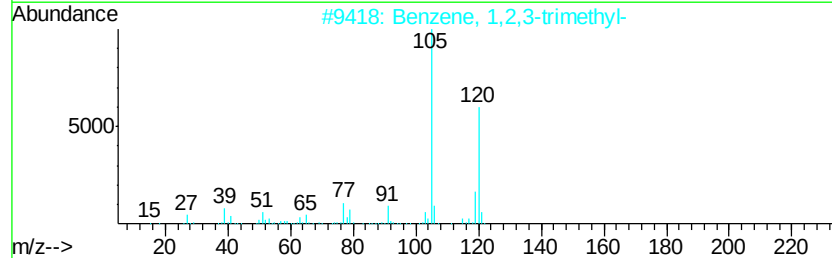
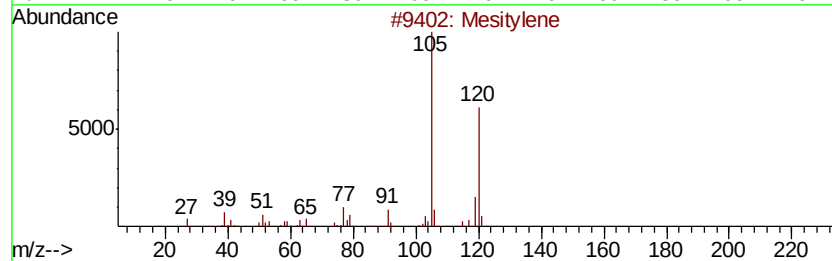
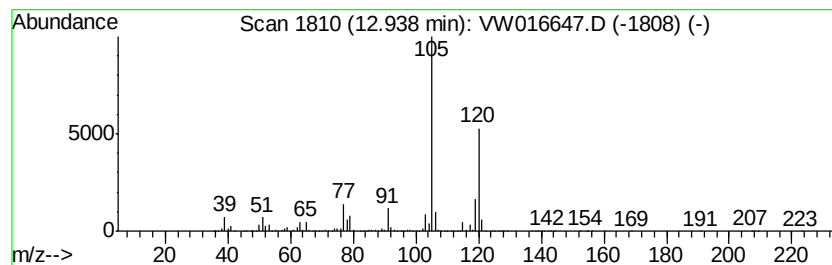
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 28 Mesitylene Concentration Rank 11

| R.T.  | EstConc    | Area     | Relative to ISTD       | R.T.  |
|-------|------------|----------|------------------------|-------|
| 12.94 | 48.63 ug/L | 33514600 | 1,4-Dichlorobenzene-d4 | 13.56 |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

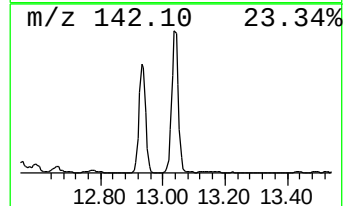
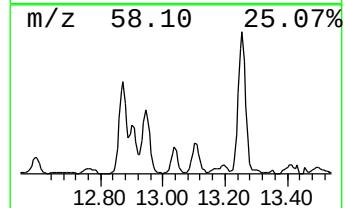
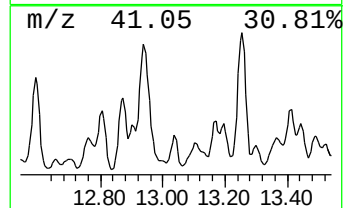
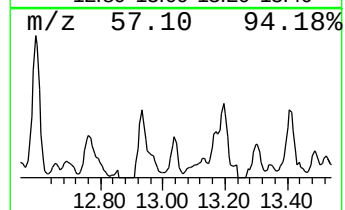
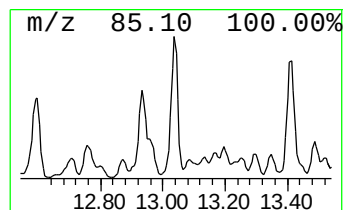
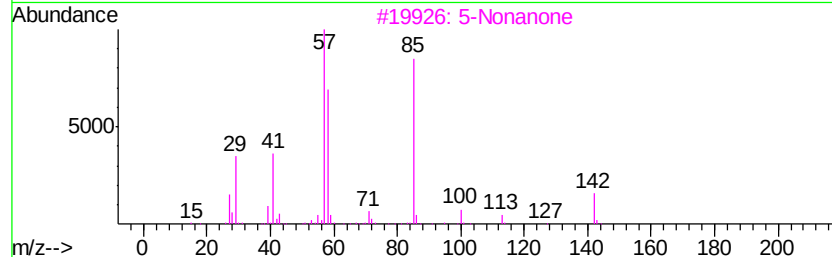
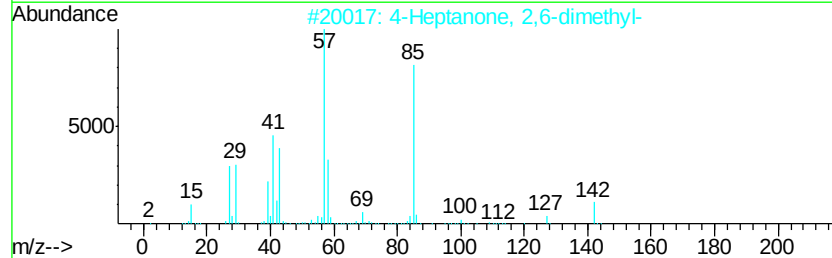
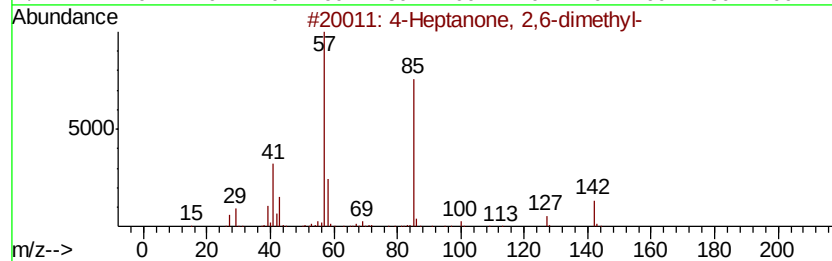
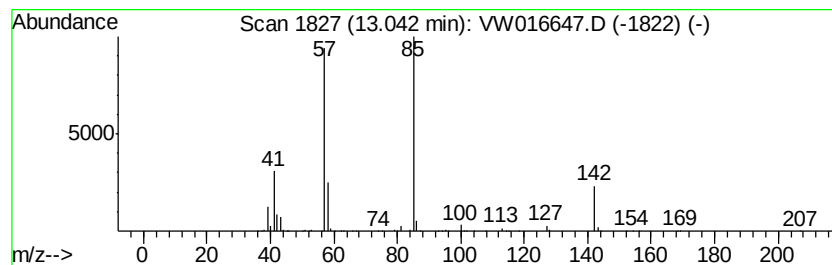
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 29 4-Heptanone, 2,6-dimethyl- Concentration Rank 63

| R.T.    | EstConc                     | Area         | Relative to ISTD       | R.T.        |      |      |
|---------|-----------------------------|--------------|------------------------|-------------|------|------|
| 13.04   | 1.36 ug/L                   | 936055       | 1,4-Dichlorobenzene-d4 | 13.56       |      |      |
| Hit# of | 5                           | Tentative ID | MW                     | MolForm     | CAS# | Qual |
| 1       | 4-Heptanone, 2,6-dimethyl-  | 142          | C9H18O                 | 000108-83-8 | 72   |      |
| 2       | 4-Heptanone, 2,6-dimethyl-  | 142          | C9H18O                 | 000108-83-8 | 56   |      |
| 3       | 5-Nonanone                  | 142          | C9H18O                 | 000502-56-7 | 50   |      |
| 4       | 4-Octanone, 2-methyl-       | 142          | C9H18O                 | 007492-38-8 | 39   |      |
| 5       | 3-Buten-2-ol, 2,3-dimethyl- | 100          | C6H12O                 | 010473-13-9 | 38   |      |





Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

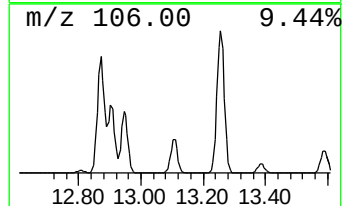
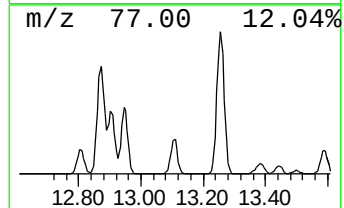
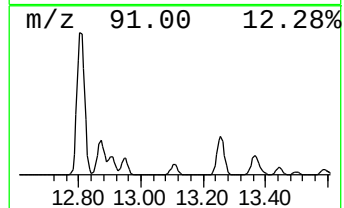
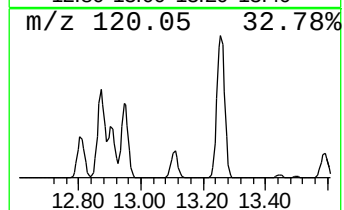
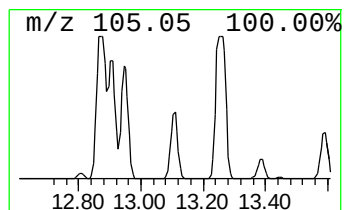
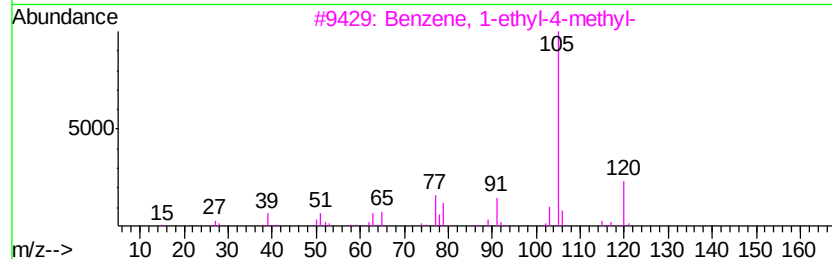
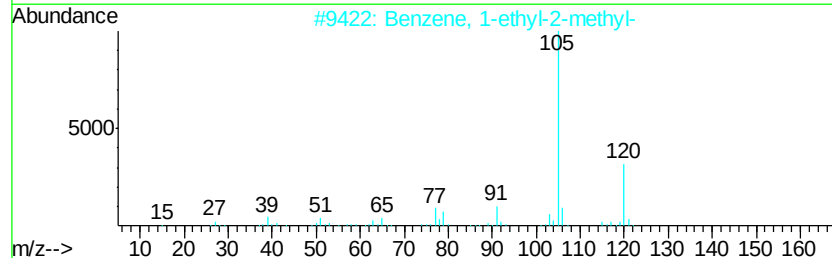
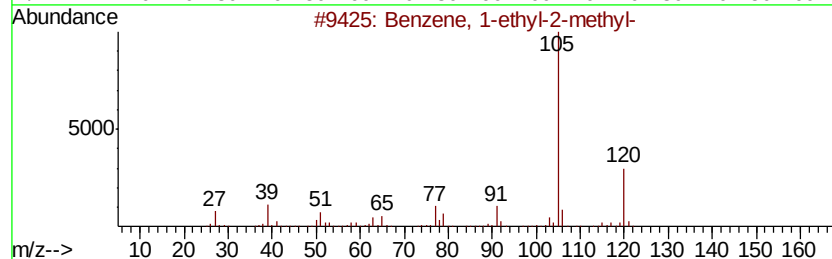
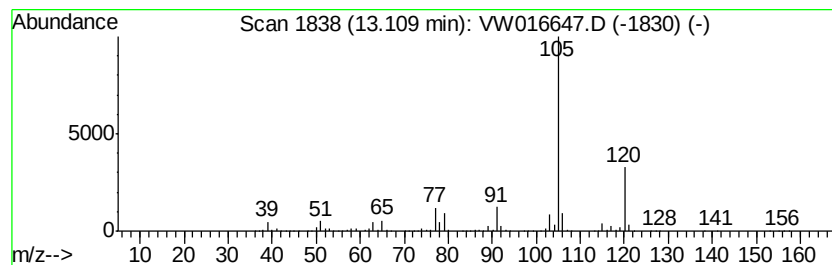
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 30 Benzene, 1-ethyl-2-methyl- Concentration Rank 21

| R.T.  | EstConc    | Area     | Relative to ISTD       | R.T.  |
|-------|------------|----------|------------------------|-------|
| 13.11 | 24.71 ug/L | 17030600 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 95   |
| 2    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 94   |
| 3    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 93   |
| 4    |    | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 91   |
| 5    |    | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

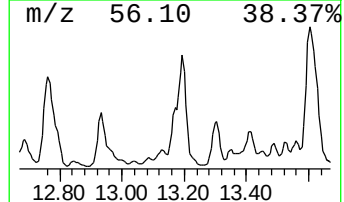
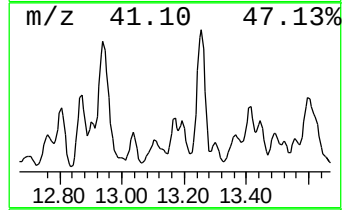
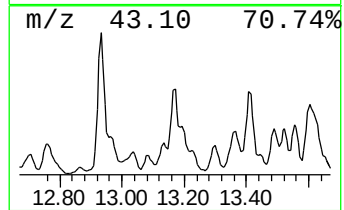
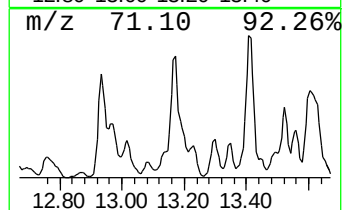
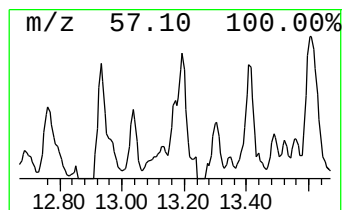
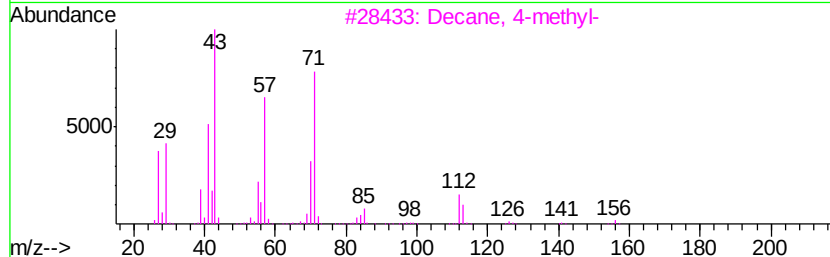
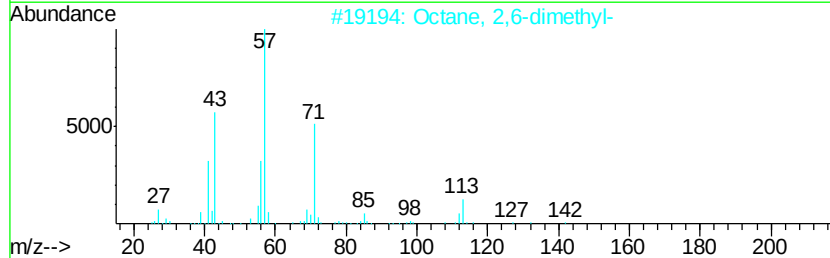
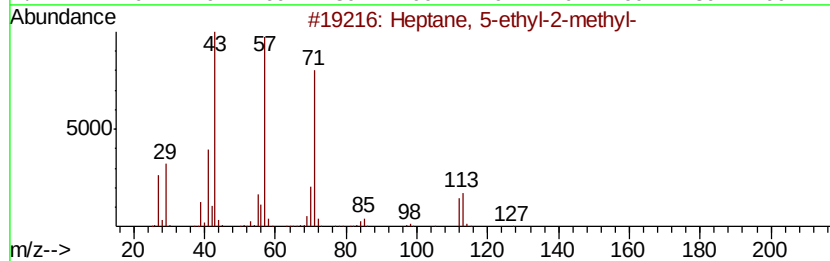
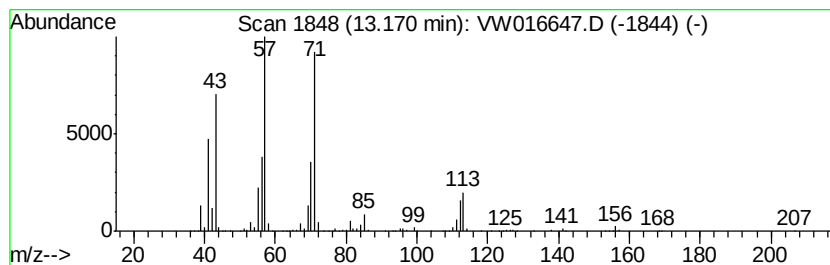
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 31 (DEL) Alkane: Straight-Chai... Concentration Rank 57

| R.T.  | EstConc   | Area    | Relative to ISTD       | R.T.  |
|-------|-----------|---------|------------------------|-------|
| 13.17 | 1.88 ug/L | 1293270 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Heptane, 5-ethyl-2-methyl- | 142 | C10H22  | 013475-78-0 | 64   |
| 2    |    |   | Octane, 2,6-dimethyl-      | 142 | C10H22  | 002051-30-1 | 59   |
| 3    |    |   | Decane, 4-methyl-          | 156 | C11H24  | 002847-72-5 | 59   |
| 4    |    |   | Octane, 3-ethyl-           | 142 | C10H22  | 005881-17-4 | 53   |
| 5    |    |   | Octane, 2-bromo-           | 192 | C8H17Br | 000557-35-7 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

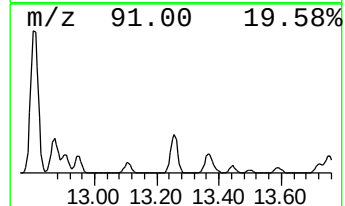
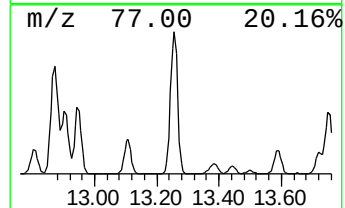
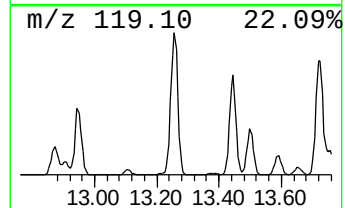
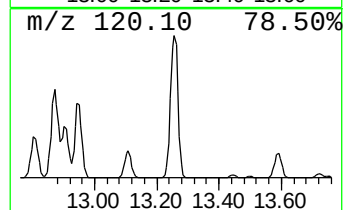
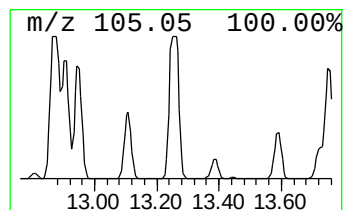
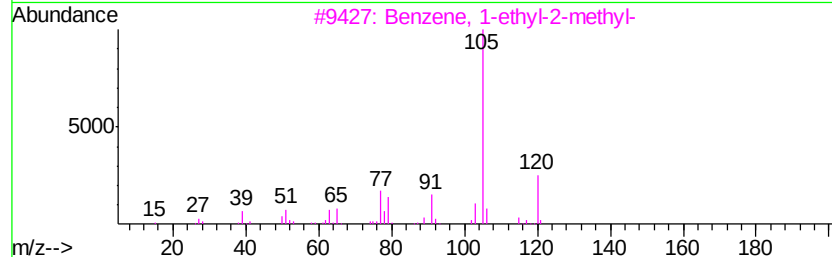
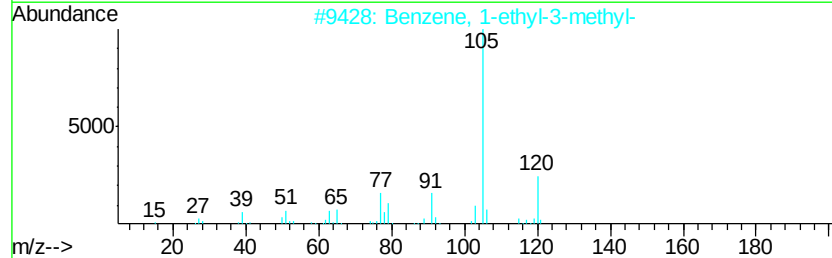
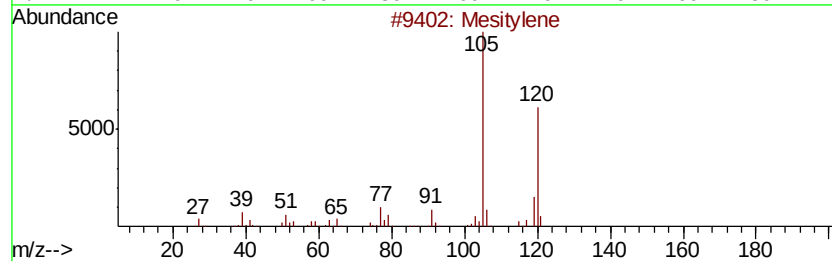
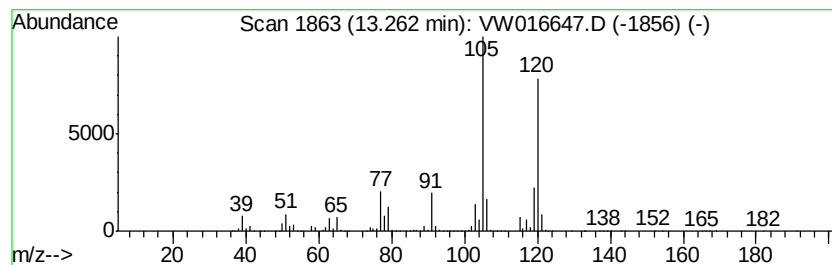
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 32 Benzene, 1-ethyl-3-methyl- Concentration Rank 6

| R.T.    | EstConc    | Area                       | Relative to ISTD       | R.T.           |
|---------|------------|----------------------------|------------------------|----------------|
| 13.26   | 98.96 ug/L | 68197200                   | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5          | Tentative ID               | MW MolForm             | CAS# Qual      |
| 1       |            | Mesitylene                 | 120 C9H12              | 000108-67-8 91 |
| 2       |            | Benzene, 1-ethyl-3-methyl- | 120 C9H12              | 000620-14-4 90 |
| 3       |            | Benzene, 1-ethyl-2-methyl- | 120 C9H12              | 000611-14-3 87 |
| 4       |            | Benzene, 1,2,3-trimethyl-  | 120 C9H12              | 000526-73-8 87 |
| 5       |            | Benzene, 1,2,4-trimethyl-  | 120 C9H12              | 000095-63-6 87 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

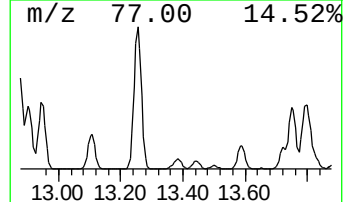
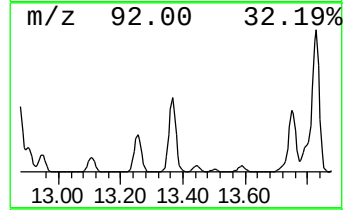
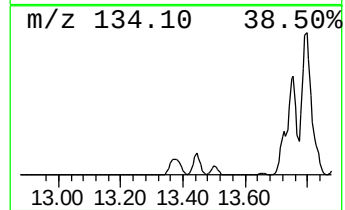
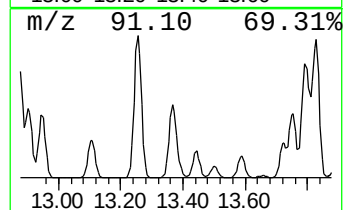
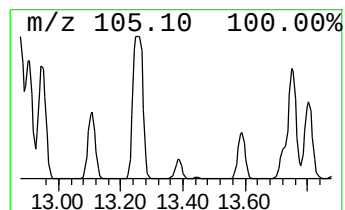
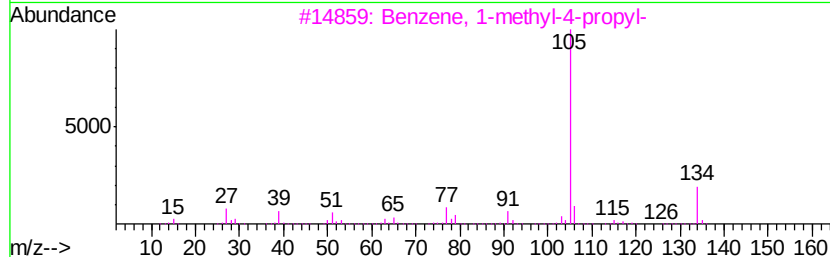
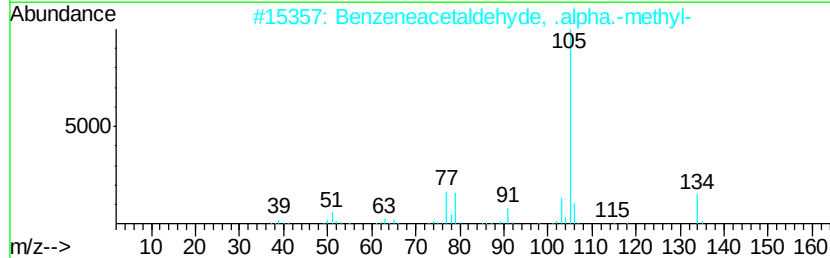
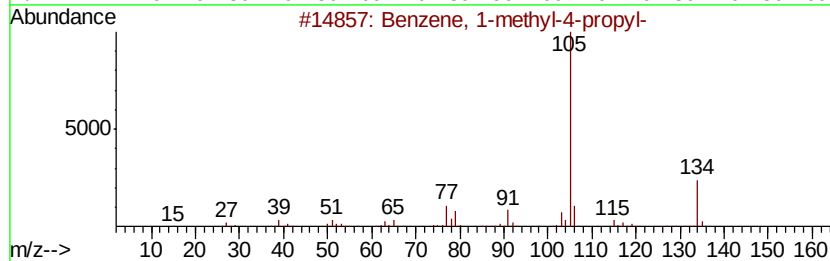
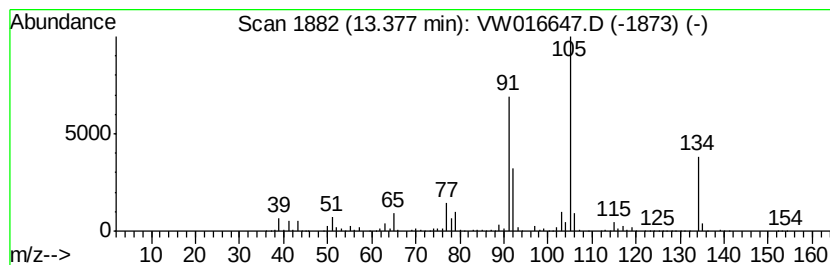
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 33 Benzene, 1-methyl-4-propyl- Concentration Rank 26

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 13.38   | 15.11 ug/L | 10410200                            | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | Benzene, 1-methyl-4-propyl-         | 134 C10H14             | 001074-55-1 90 |
| 2       |            | Benzeneacetaldehyde, .alpha.-met... | 134 C9H10O             | 000093-53-8 87 |
| 3       |            | Benzene, 1-methyl-4-propyl-         | 134 C10H14             | 001074-55-1 87 |
| 4       |            | Benzene, 1-methyl-3-propyl-         | 134 C10H14             | 001074-43-7 86 |
| 5       |            | Benzene, 1-methyl-4-propyl-         | 134 C10H14             | 001074-55-1 83 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

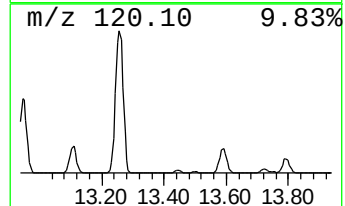
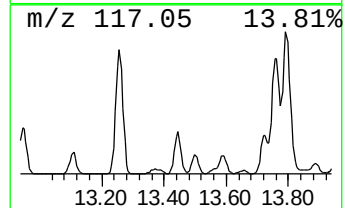
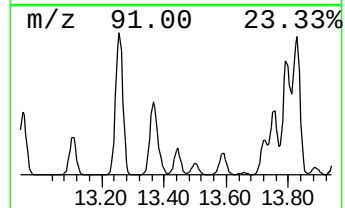
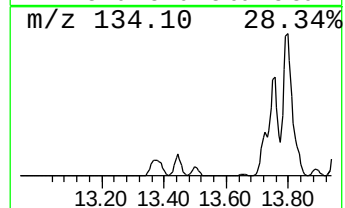
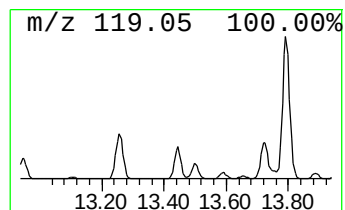
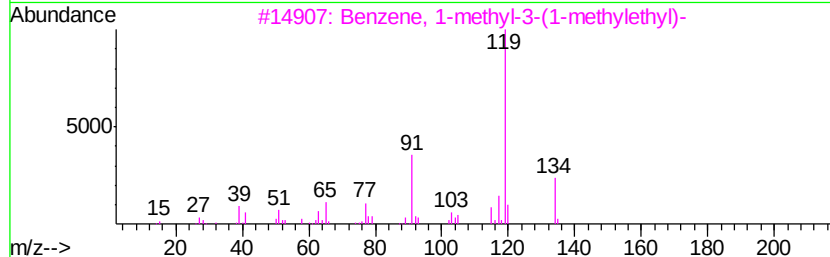
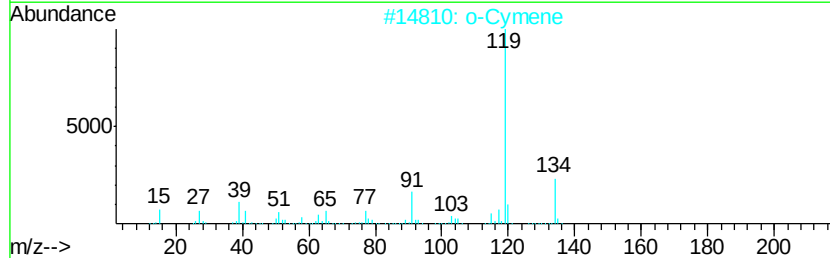
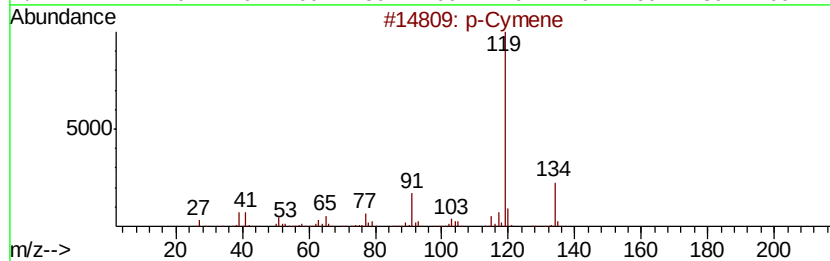
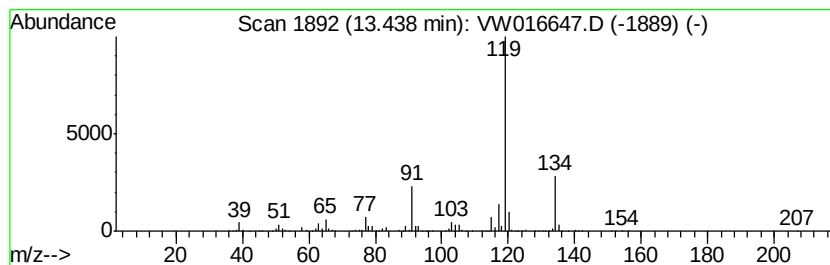
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 34 p-Cymene Concentration Rank 34

| R.T.    | EstConc                              | Area         | Relative to ISTD       | R.T.      |
|---------|--------------------------------------|--------------|------------------------|-----------|
| 13.44   | 8.62 ug/L                            | 5940380      | 1,4-Dichlorobenzene-d4 | 13.56     |
| Hit# of | 5                                    | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | p-Cymene                             | 134 C10H14   | 000099-87-6            | 97        |
| 2       | o-Cymene                             | 134 C10H14   | 000527-84-4            | 97        |
| 3       | Benzene, 1-methyl-3-(1-methylethyl)- | 134 C10H14   | 000535-77-3            | 95        |
| 4       | p-Cymene                             | 134 C10H14   | 000099-87-6            | 95        |
| 5       | o-Cymene                             | 134 C10H14   | 000527-84-4            | 94        |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

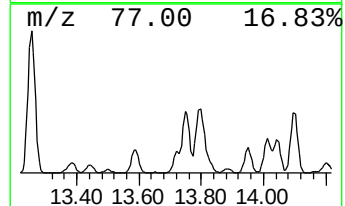
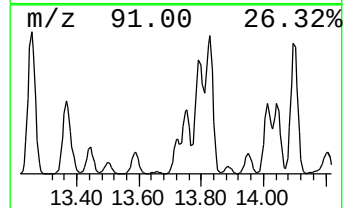
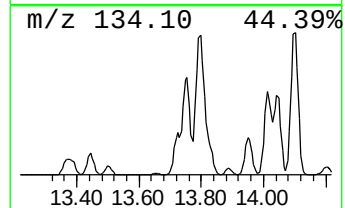
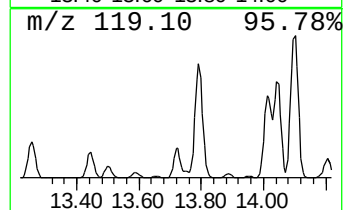
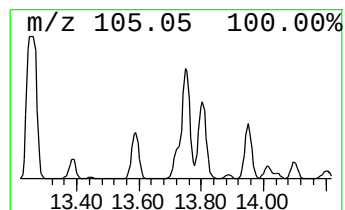
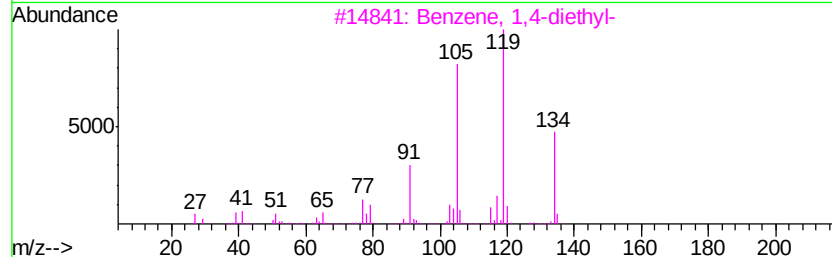
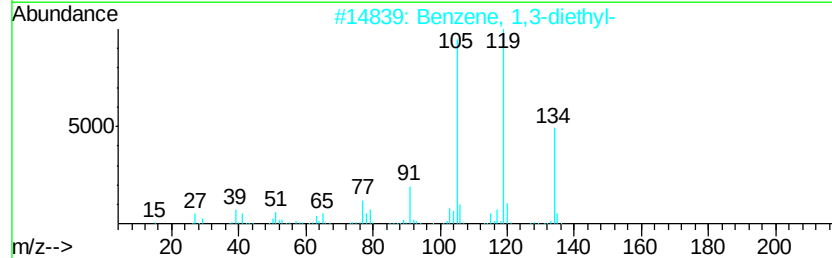
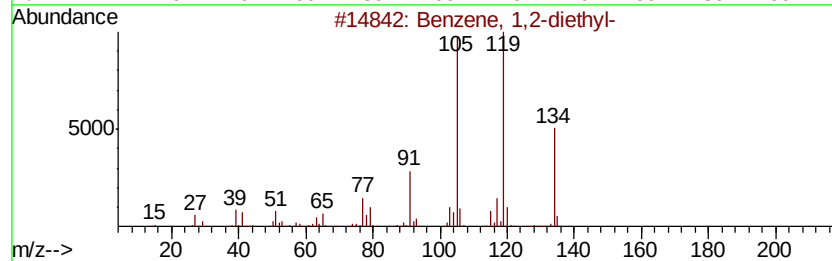
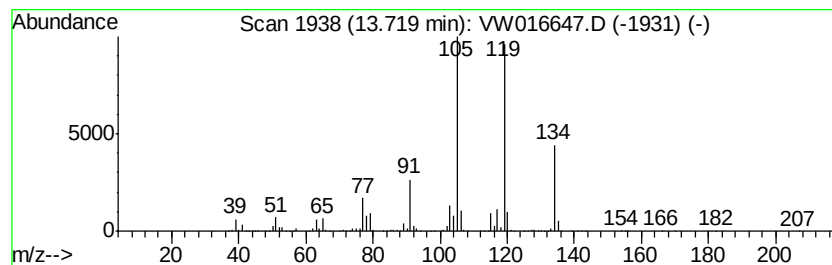
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 35 Benzene, 1,2-diethyl- Concentration Rank 24

| R.T.  | EstConc    | Area     | Relative to ISTD       | R.T.  |
|-------|------------|----------|------------------------|-------|
| 13.72 | 16.93 ug/L | 11669700 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2-diethyl- | 134 | C10H14  | 000135-01-3 | 96   |
| 2    |    | Benzene, 1,3-diethyl- | 134 | C10H14  | 000141-93-5 | 95   |
| 3    |    | Benzene, 1,4-diethyl- | 134 | C10H14  | 000105-05-5 | 94   |
| 4    |    | Benzene, 1,3-diethyl- | 134 | C10H14  | 000141-93-5 | 94   |
| 5    |    | Benzene, 1,3-diethyl- | 134 | C10H14  | 000141-93-5 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

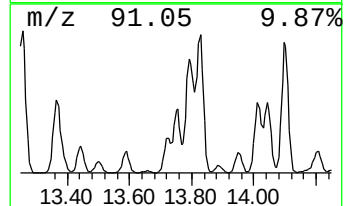
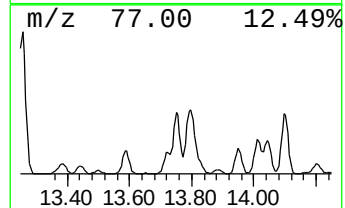
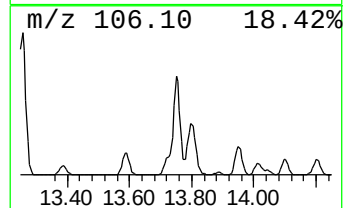
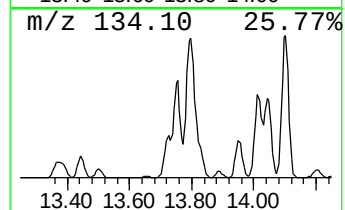
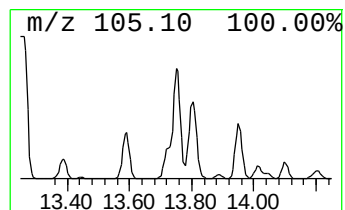
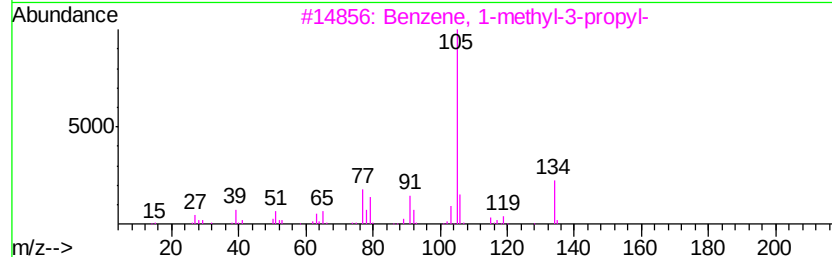
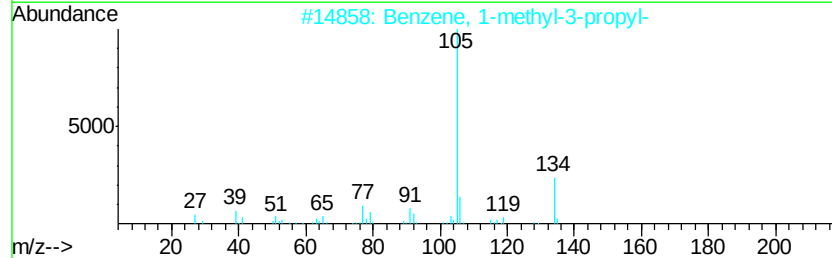
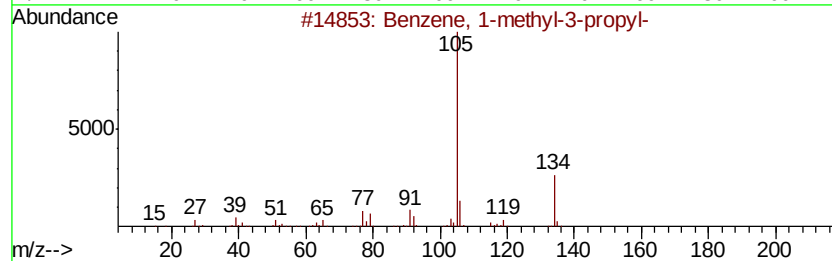
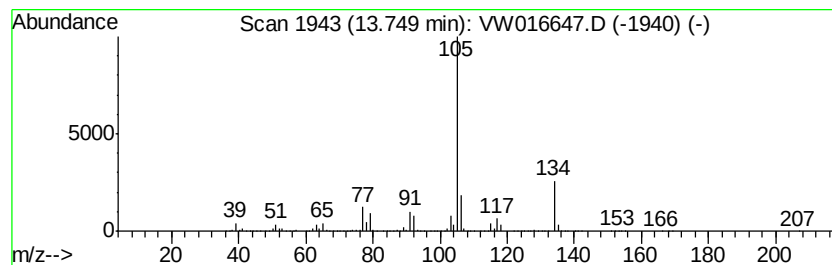
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

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

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Peak Number 36 Benzene, 1-methyl-3-propyl- Concentration Rank 12

| R.T.    | EstConc                     | Area         | Relative to ISTD       | R.T.      |
|---------|-----------------------------|--------------|------------------------|-----------|
| 13.75   | 43.23 ug/L                  | 29790100     | 1,4-Dichlorobenzene-d4 | 13.56     |
| Hit# of | 5                           | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Benzene, 1-methyl-3-propyl- | 134 C10H14   | 001074-43-7            | 91        |
| 2       | Benzene, 1-methyl-3-propyl- | 134 C10H14   | 001074-43-7            | 91        |
| 3       | Benzene, 1-methyl-3-propyl- | 134 C10H14   | 001074-43-7            | 91        |
| 4       | Benzene, 1-methyl-4-propyl- | 134 C10H14   | 001074-55-1            | 90        |
| 5       | Benzene, 1-methyl-2-propyl- | 134 C10H14   | 001074-17-5            | 86        |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

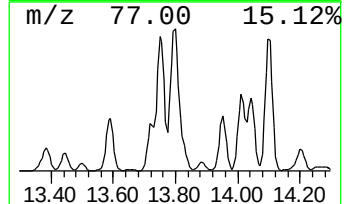
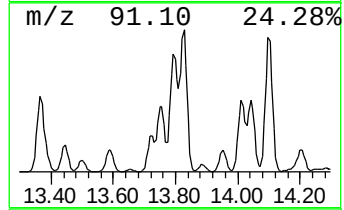
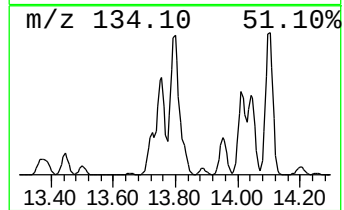
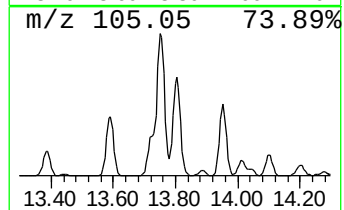
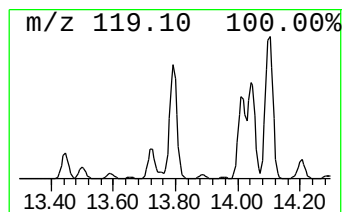
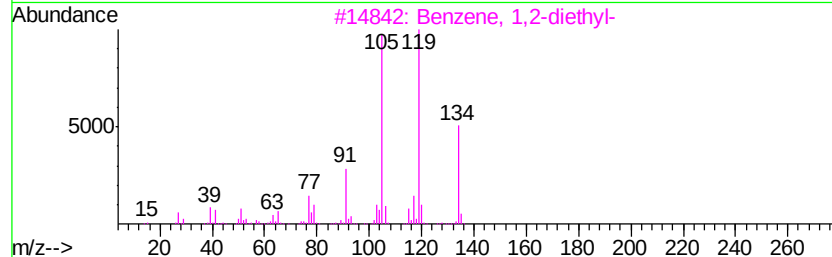
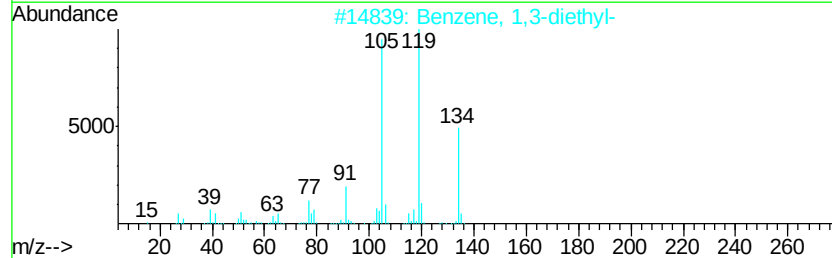
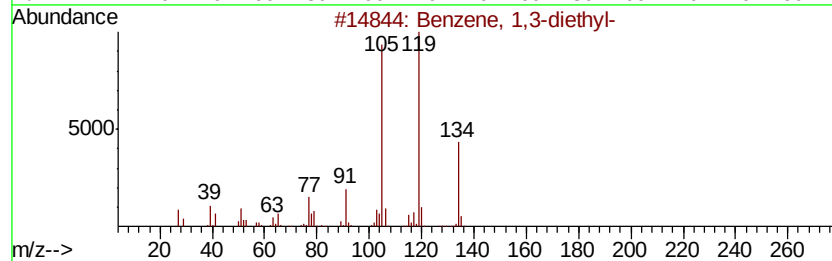
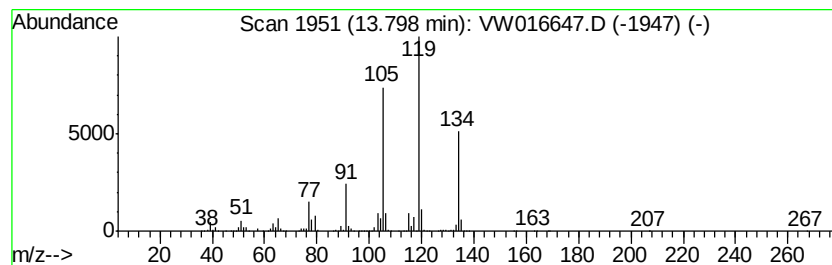
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 37 Benzene, 1,3-diethyl- Concentration Rank 8

| R.T.  | EstConc    | Area     | Relative to ISTD       | R.T.  |
|-------|------------|----------|------------------------|-------|
| 13.80 | 70.58 ug/L | 48638700 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,3-diethyl- | 134 | C10H14  | 000141-93-5 | 95   |
| 2    |    | Benzene, 1,3-diethyl- | 134 | C10H14  | 000141-93-5 | 94   |
| 3    |    | Benzene, 1,2-diethyl- | 134 | C10H14  | 000135-01-3 | 94   |
| 4    |    | Benzene, 1,4-diethyl- | 134 | C10H14  | 000105-05-5 | 91   |
| 5    |    | Benzene, 1,4-diethyl- | 134 | C10H14  | 000105-05-5 | 91   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

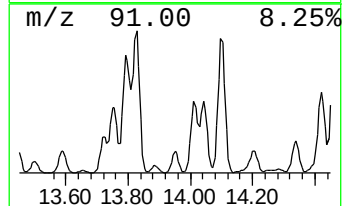
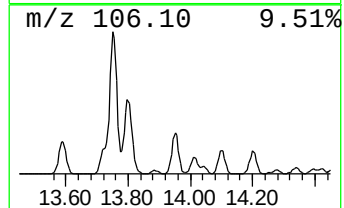
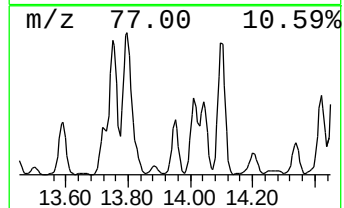
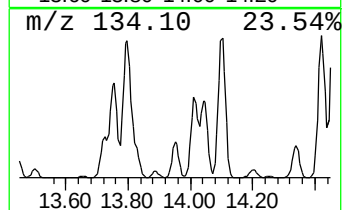
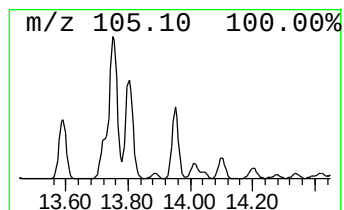
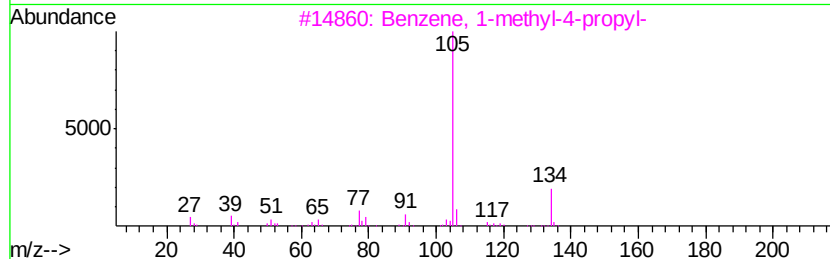
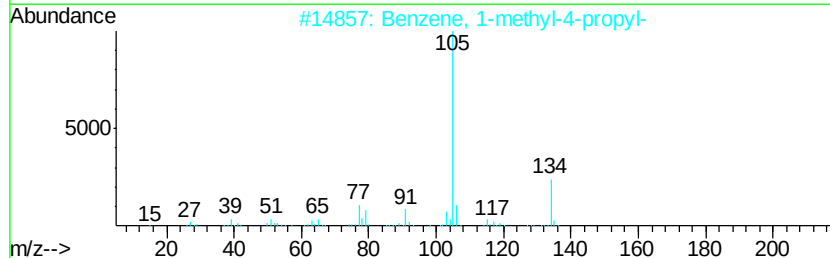
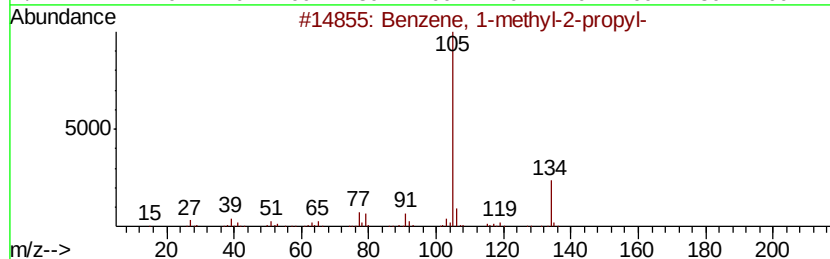
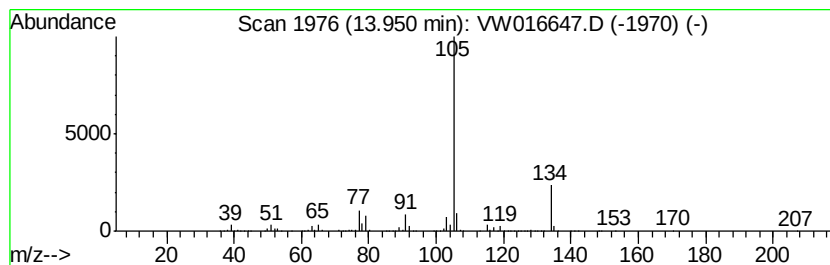
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 38 Benzene, 1-methyl-2-propyl- Concentration Rank 25

| R.T.  | EstConc    | Area     | Relative to ISTD       | R.T.  |
|-------|------------|----------|------------------------|-------|
| 13.95 | 15.37 ug/L | 10592000 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-2-propyl- | 134 | C10H14  | 001074-17-5 | 94   |
| 2    |    | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 94   |
| 3    |    | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 91   |
| 4    |    | Benzene, (1-methylpropyl)-  | 134 | C10H14  | 000135-98-8 | 91   |
| 5    |    | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 90   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

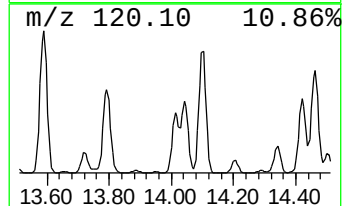
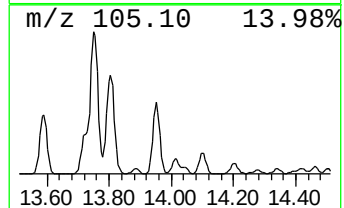
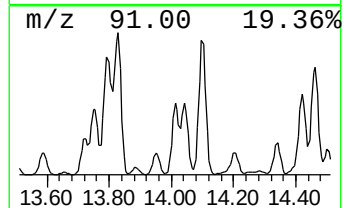
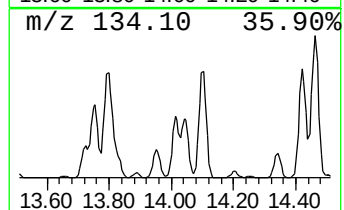
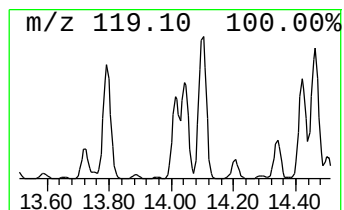
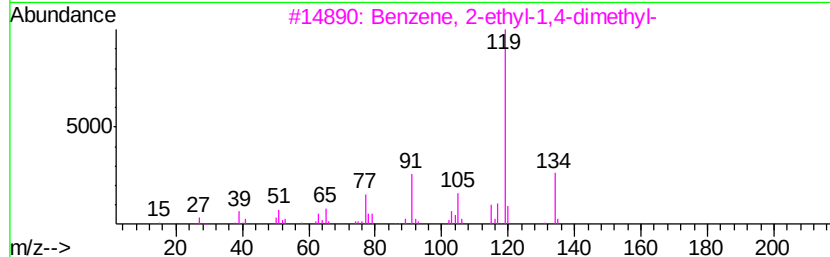
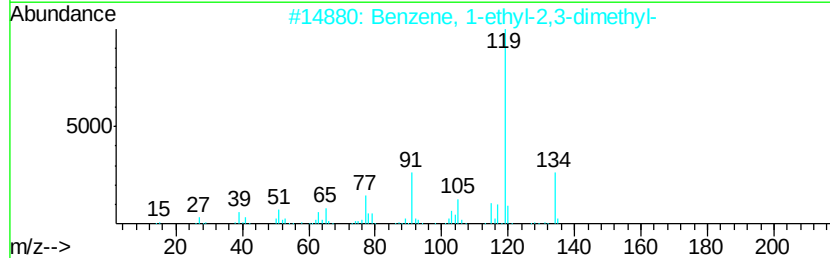
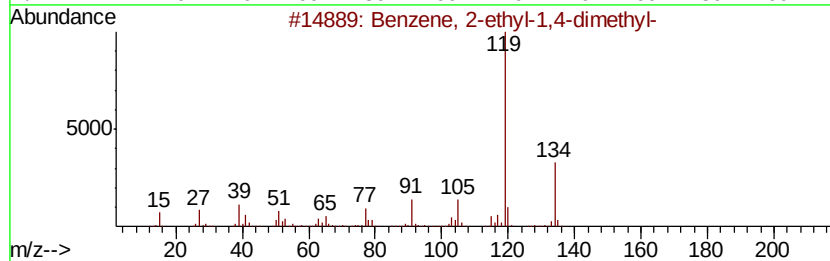
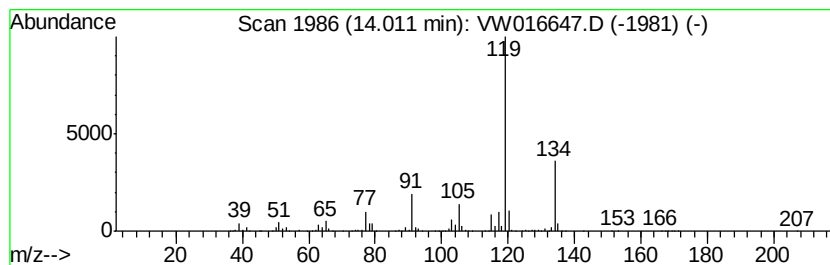
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 39 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 18

| R.T.  | EstConc    | Area     | Relative to ISTD       | R.T.  |
|-------|------------|----------|------------------------|-------|
| 14.01 | 33.21 ug/L | 22888600 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 97   |
| 2    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 96   |
| 3    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 96   |
| 4    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 95   |
| 5    |    | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 95   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

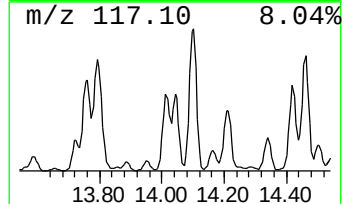
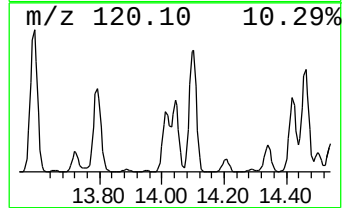
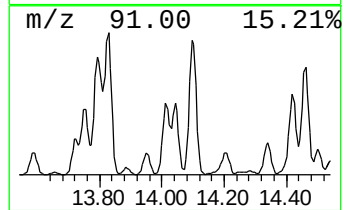
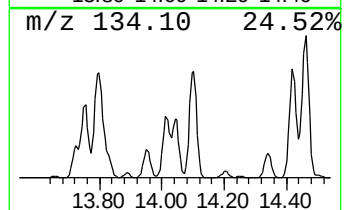
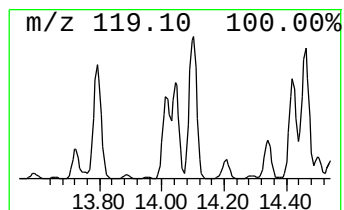
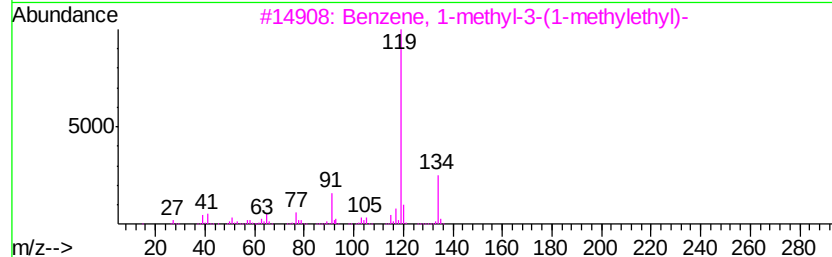
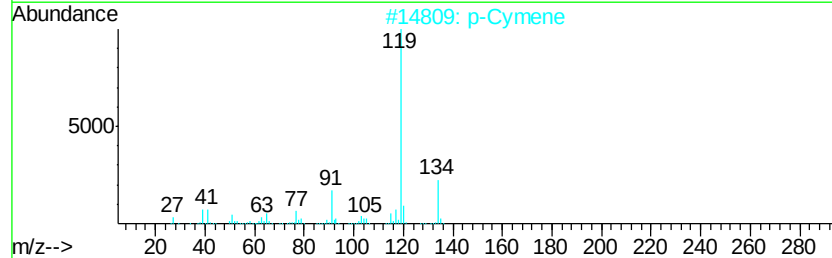
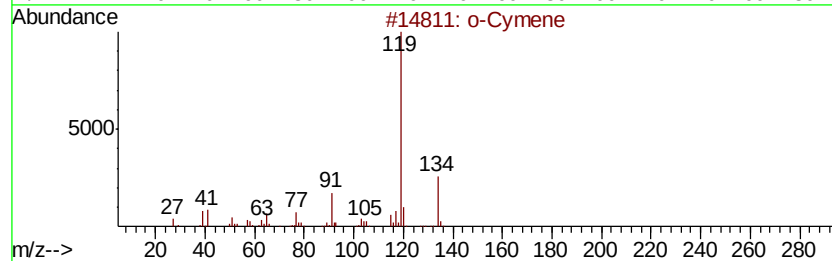
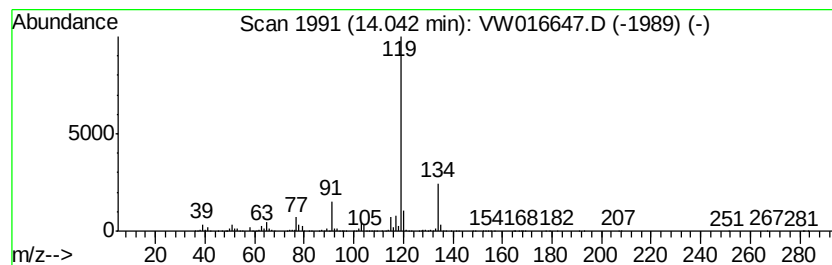
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 40 o-Cymene Concentration Rank 20

| R.T.  | EstConc    | Area     | Relative to ISTD       | R.T.  |
|-------|------------|----------|------------------------|-------|
| 14.04 | 27.44 ug/L | 18910000 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | o-Cymene                             | 134 | C10H14  | 000527-84-4 | 97   |
| 2    |    | p-Cymene                             | 134 | C10H14  | 000099-87-6 | 97   |
| 3    |    | Benzene, 1-methyl-3-(1-methylethyl)- | 134 | C10H14  | 000535-77-3 | 95   |
| 4    |    | o-Cymene                             | 134 | C10H14  | 000527-84-4 | 95   |
| 5    |    | Benzene, 1-methyl-3-(1-methylethyl)- | 134 | C10H14  | 000535-77-3 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

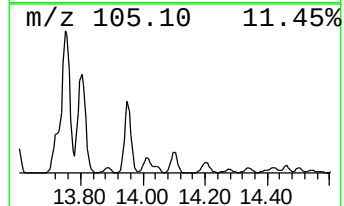
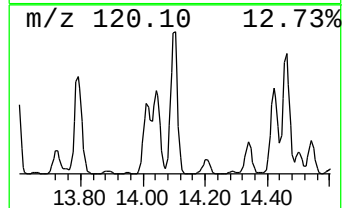
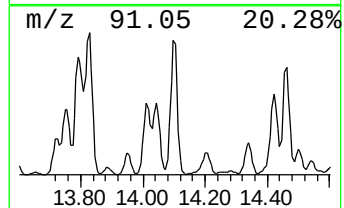
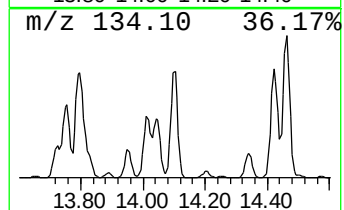
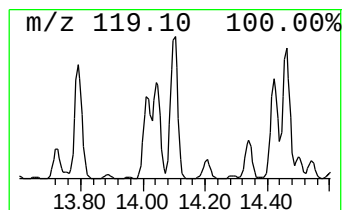
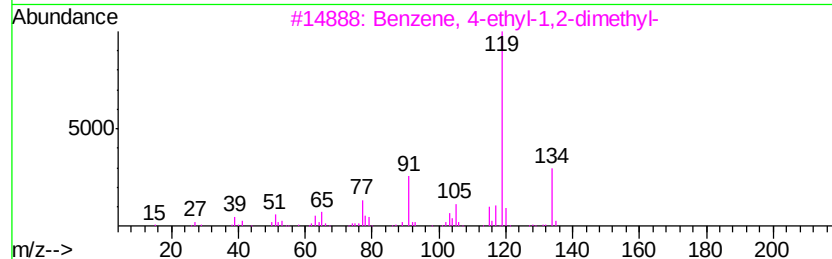
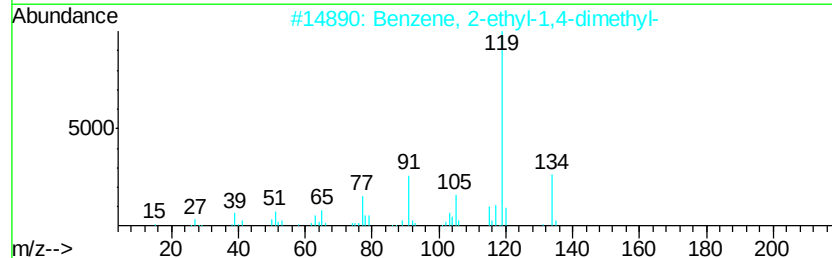
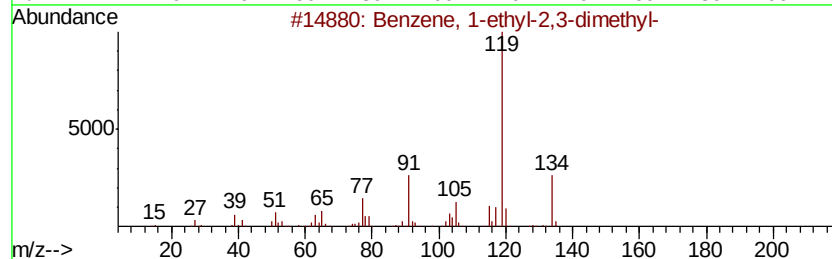
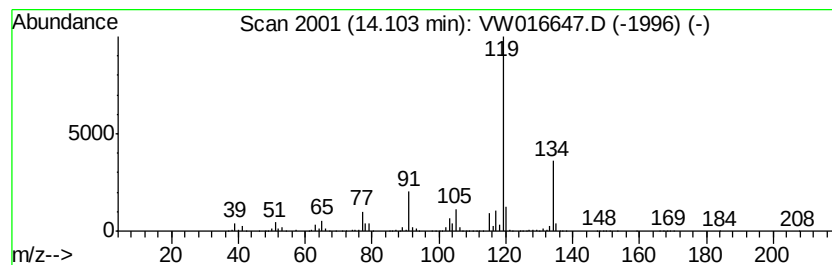
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 41 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 9

| R.T.  | EstConc    | Area     | Relative to ISTD       | R.T.  |
|-------|------------|----------|------------------------|-------|
| 14.10 | 57.19 ug/L | 39410800 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 96   |
| 2    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 96   |
| 3    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 96   |
| 4    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 95   |
| 5    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 95   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

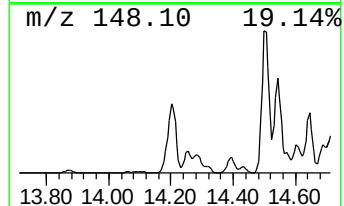
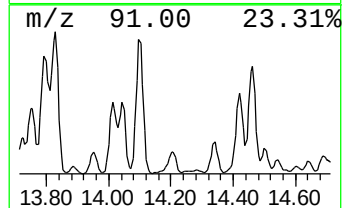
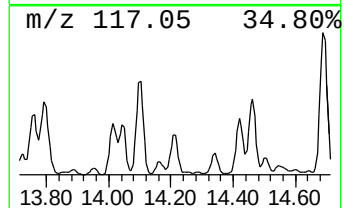
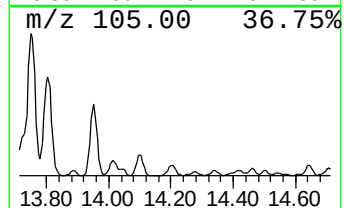
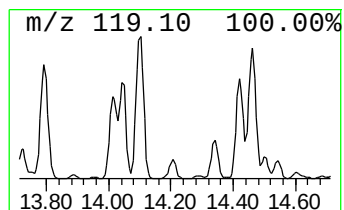
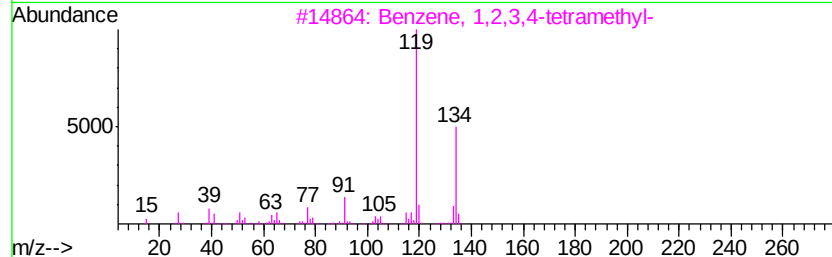
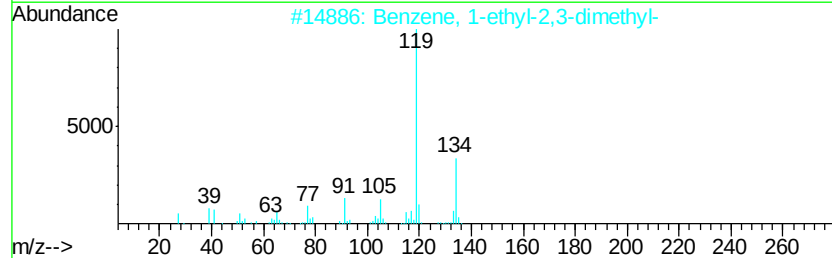
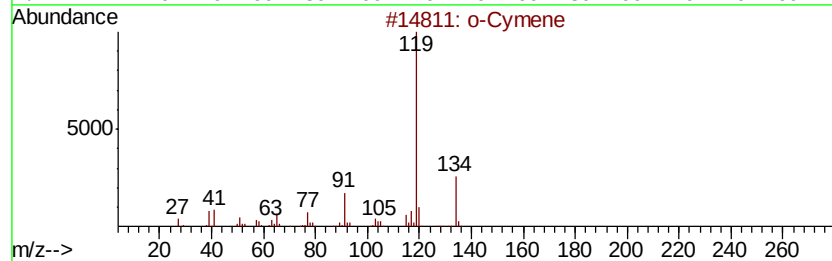
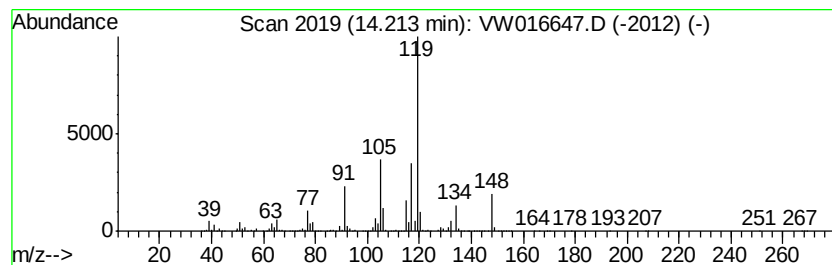
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 42 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 30

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 14.21 | 10.15 ug/L | 6992050 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 92   |
| 2    |    | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 81   |
| 3    |    | Benzene, 1,2,3,4-tetramethyl-       | 134 | C10H14  | 000488-23-3 | 76   |
| 4    |    | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14  | 076089-59-3 | 76   |
| 5    |    | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 76   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

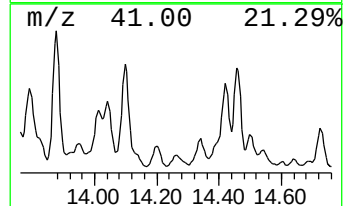
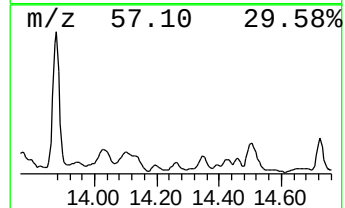
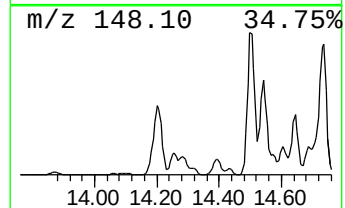
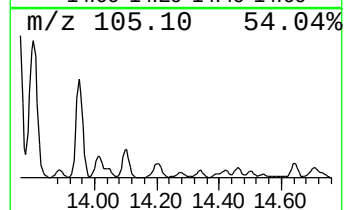
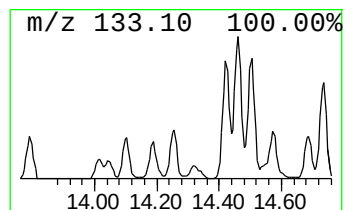
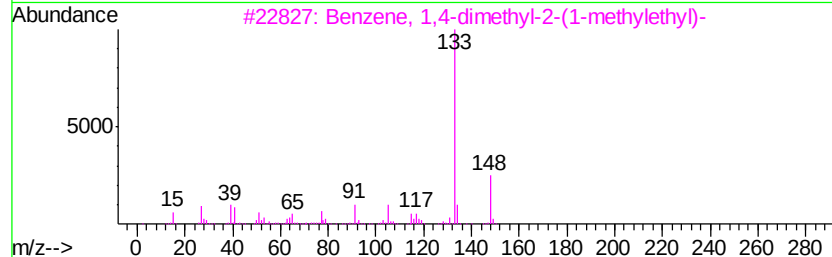
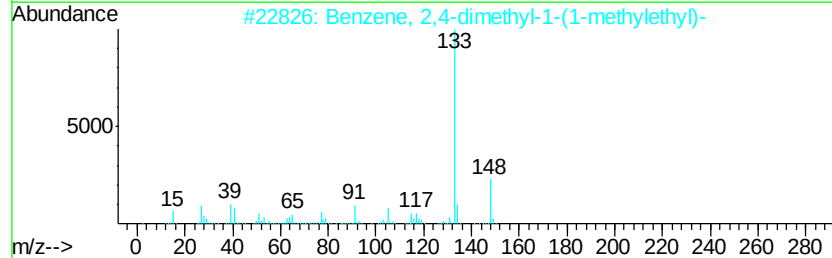
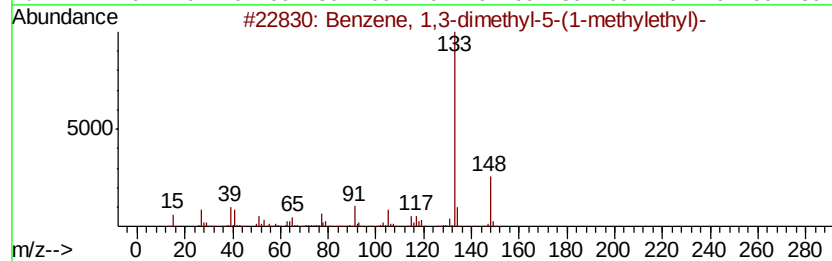
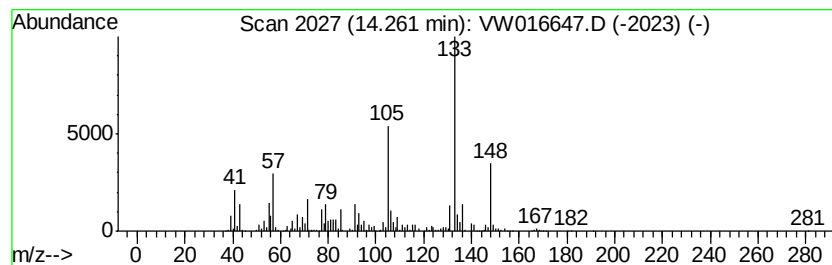
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 43 Benzene, 1,3-dimethyl-5-(1-... Concentration Rank 62

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.26 | 1.36 ug/L | 936842 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,3-dimethyl-5-(1-methyl-... | 148 | C11H16  | 004706-90-5 | 83   |
| 2    |    | Benzene, 2,4-dimethyl-1-(1-methyl-... | 148 | C11H16  | 004706-89-2 | 83   |
| 3    |    | Benzene, 1,4-dimethyl-2-(1-methyl-... | 148 | C11H16  | 004132-72-3 | 80   |
| 4    |    | 4-tert-Butyltoluene                   | 148 | C11H16  | 000098-51-1 | 72   |
| 5    |    | Benzene, 1-ethyl-4-(1-methylethyl)-   | 148 | C11H16  | 004218-48-8 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

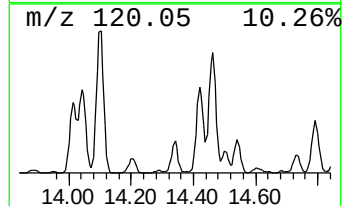
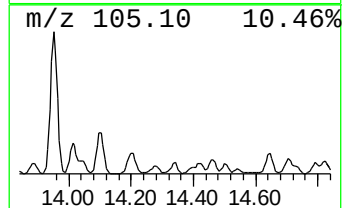
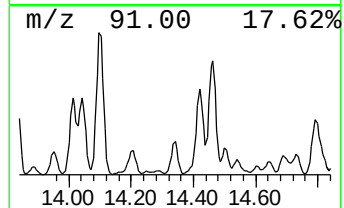
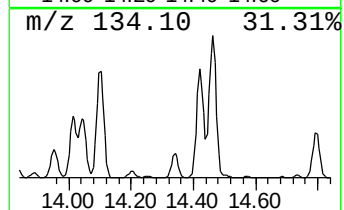
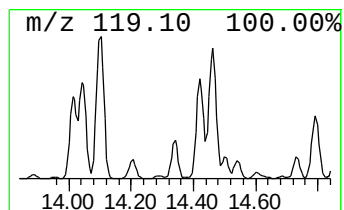
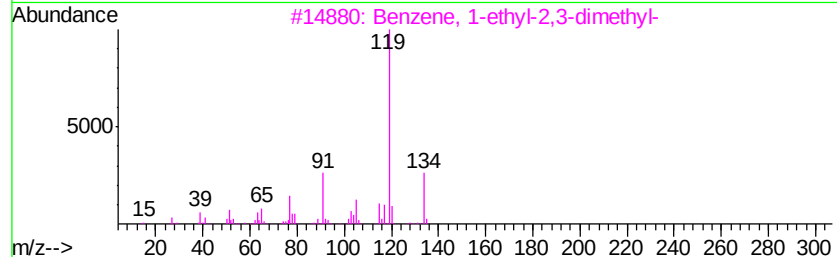
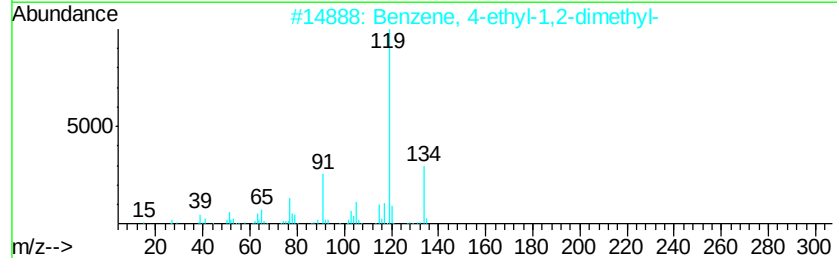
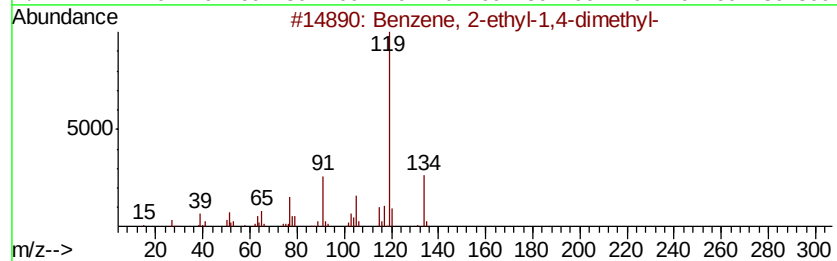
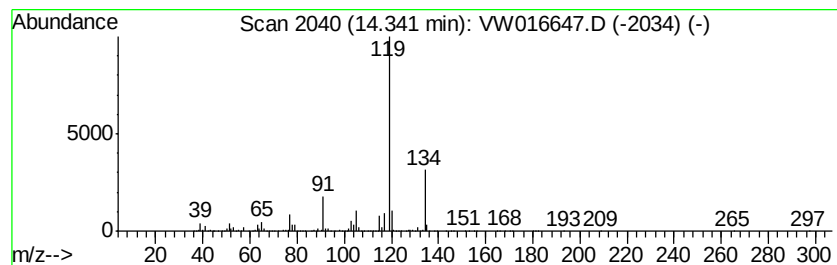
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 44 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 27

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 14.34 | 13.17 ug/L | 9075740 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 96   |
| 2    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 96   |
| 3    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 95   |
| 4    |    | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 94   |
| 5    |    | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

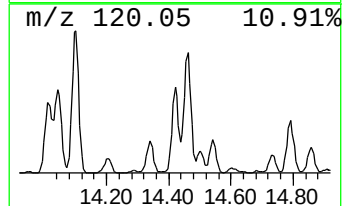
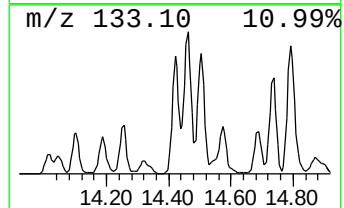
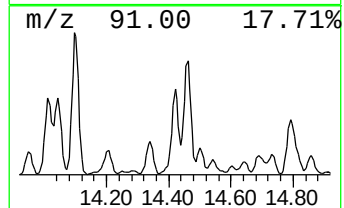
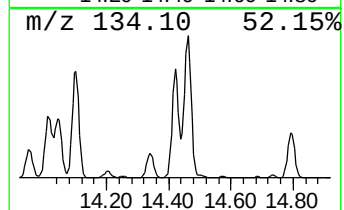
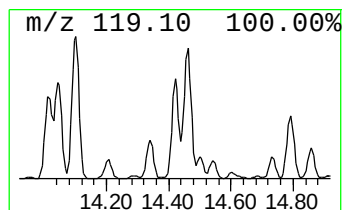
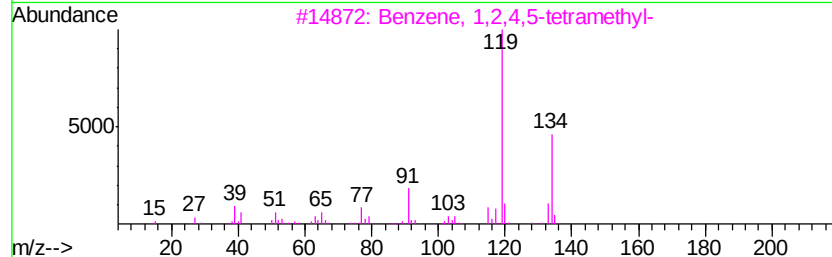
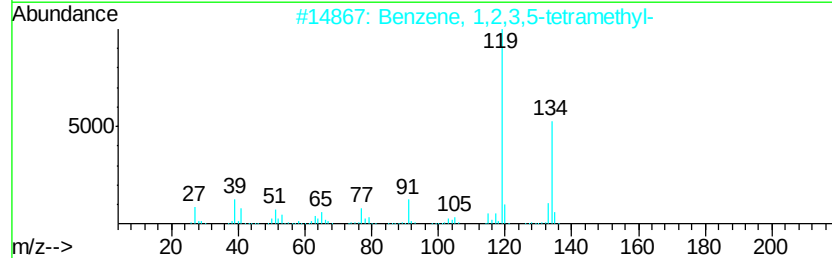
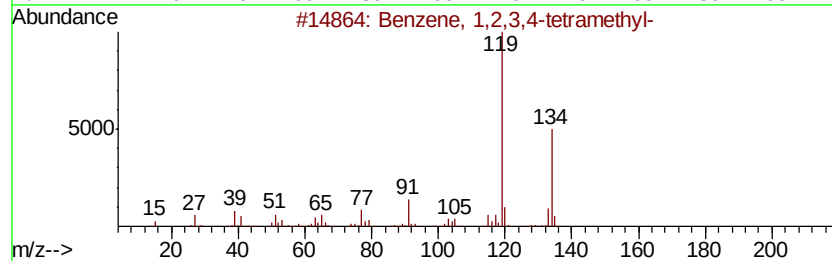
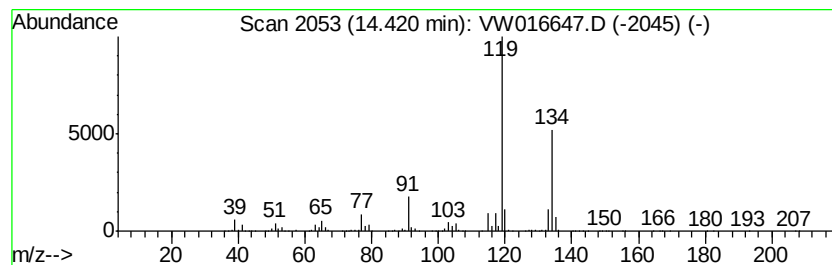
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 45 unknown-01 Concentration Rank 13

| R.T.  | EstConc    | Area     | Relative to ISTD       | R.T.  |
|-------|------------|----------|------------------------|-------|
| 14.42 | 41.57 ug/L | 28651000 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 96   |
| 2    |    | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 96   |
| 3    |    | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 96   |
| 4    |    | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 96   |
| 5    |    | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 95   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

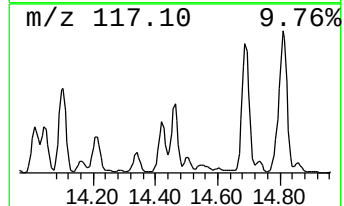
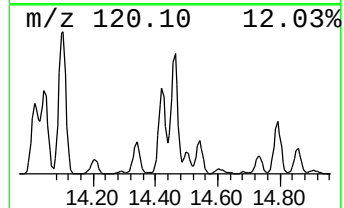
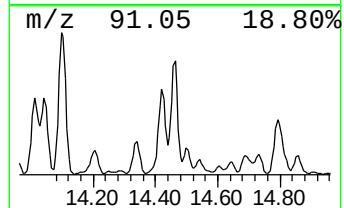
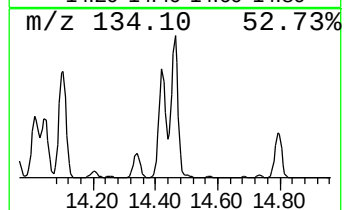
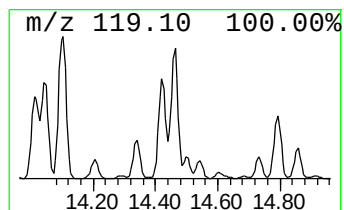
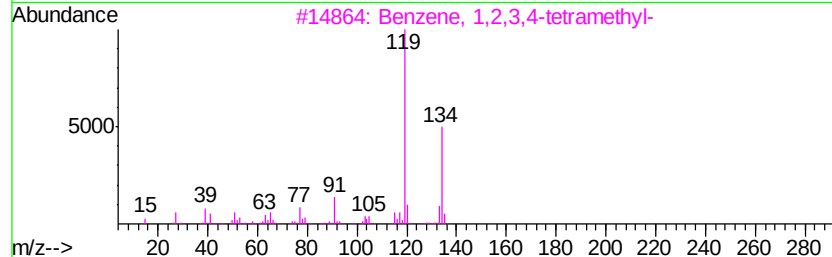
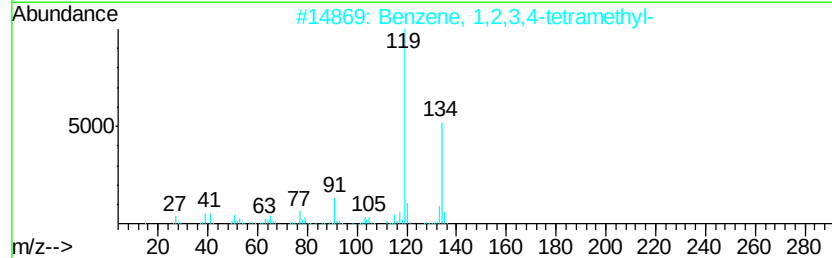
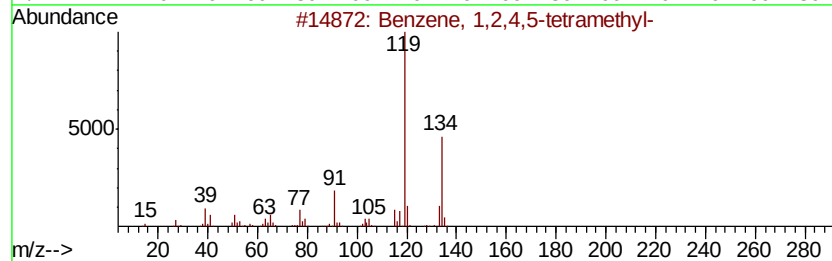
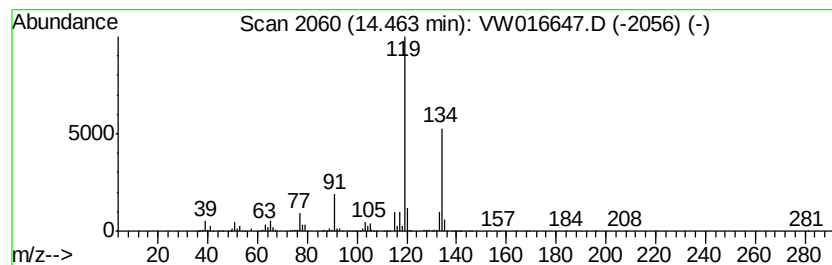
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 46 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 10

| R.T.  | EstConc    | Area     | Relative to ISTD       | R.T.  |
|-------|------------|----------|------------------------|-------|
| 14.46 | 51.71 ug/L | 35634000 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 97   |
| 2    |    | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 96   |
| 3    |    | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 96   |
| 4    |    | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 95   |
| 5    |    | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 95   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

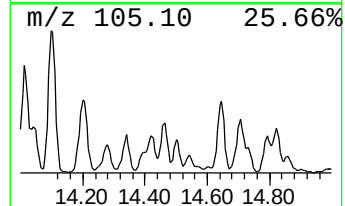
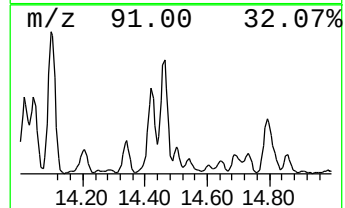
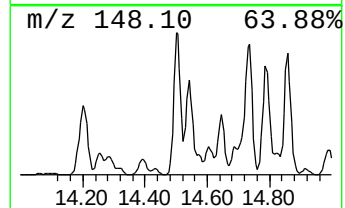
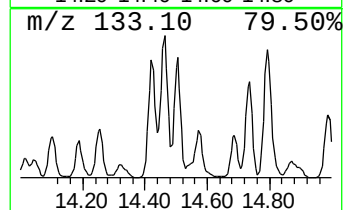
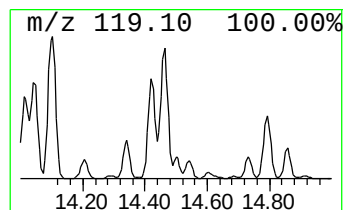
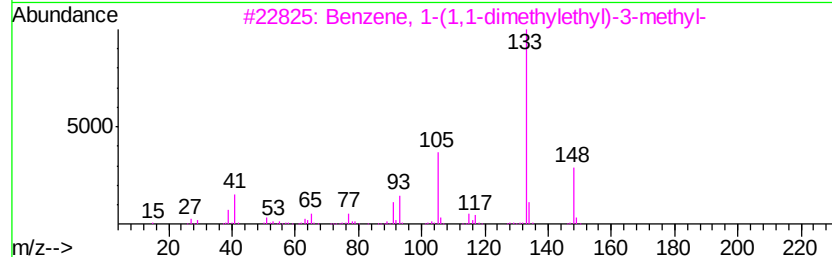
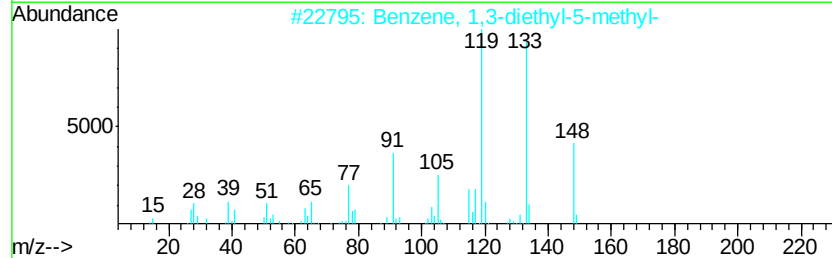
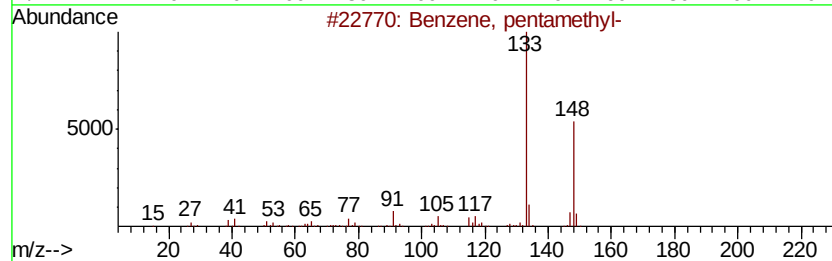
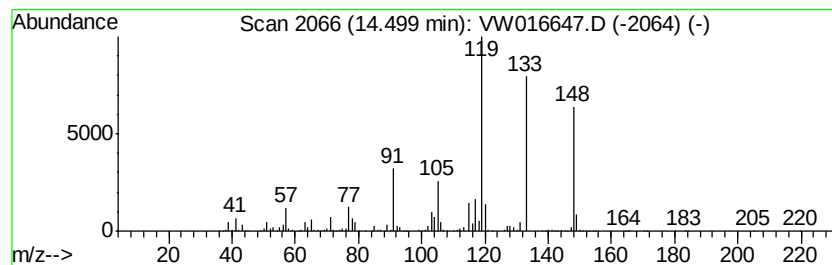
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 47 Benzene, pentamethyl- Concentration Rank 31

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 14.50 | 10.10 ug/L | 6963710 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, pentamethyl-               | 148 | C11H16  | 000700-12-9 | 64   |
| 2    |    | Benzene, 1,3-diethyl-5-methyl-      | 148 | C11H16  | 002050-24-0 | 53   |
| 3    |    | Benzene, 1-(1,1-dimethylethyl)-3... | 148 | C11H16  | 001075-38-3 | 46   |
| 4    |    | Benzene, pentamethyl-               | 148 | C11H16  | 000700-12-9 | 46   |
| 5    |    | Benzene, (1,1-dimethylpropyl)-      | 148 | C11H16  | 002049-95-8 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

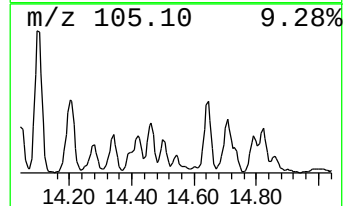
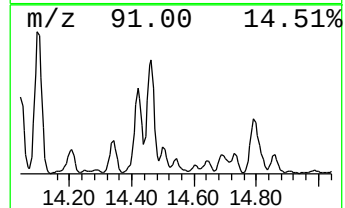
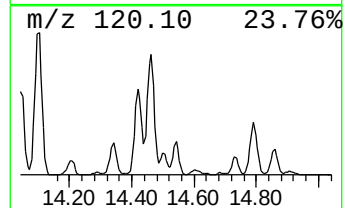
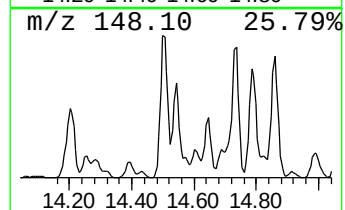
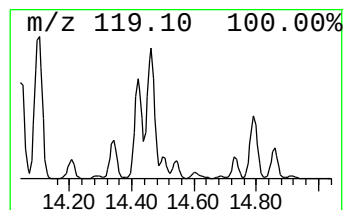
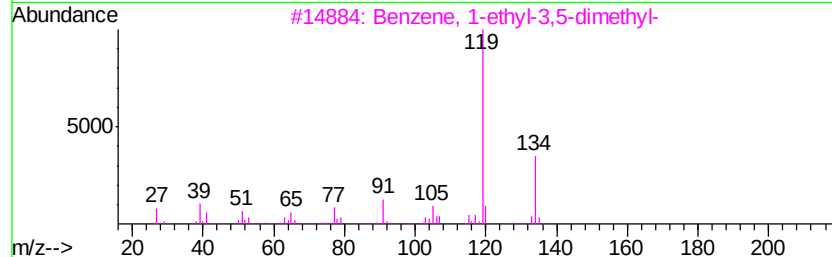
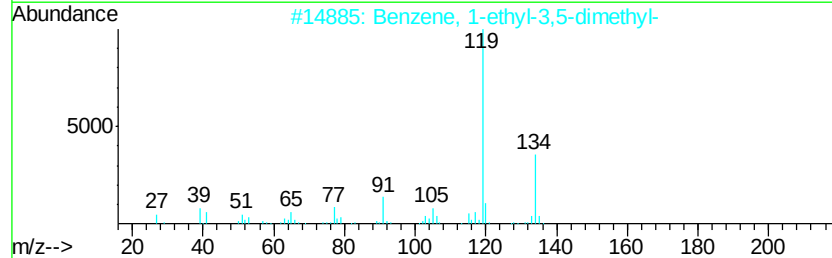
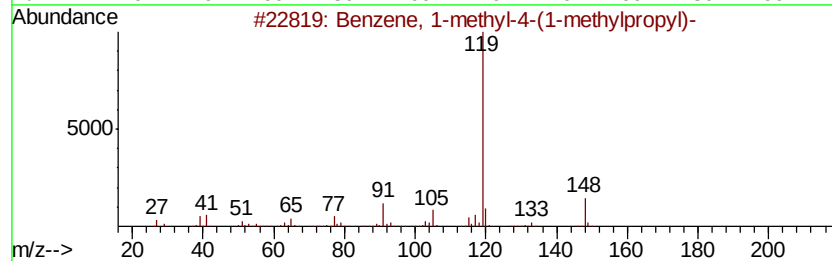
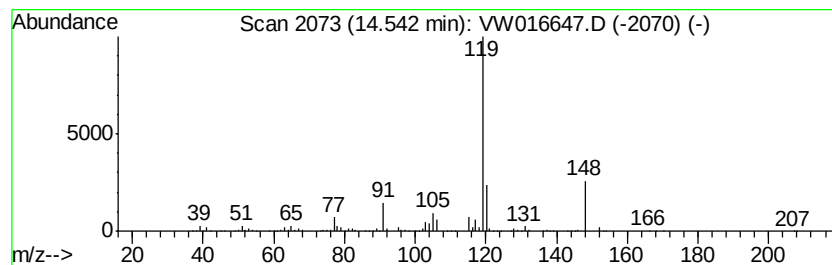
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 48 Benzene, 1-methyl-4-(1-meth... Concentration Rank 38

| R.T.  | EstConc   | Area    | Relative to ISTD       | R.T.  |
|-------|-----------|---------|------------------------|-------|
| 14.54 | 7.34 ug/L | 5059430 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16  | 001595-16-0 | 72   |
| 2    |    | Benzene, 1-ethyl-3,5-dimethyl-      | 134 | C10H14  | 000934-74-7 | 64   |
| 3    |    | Benzene, 1-ethyl-3,5-dimethyl-      | 134 | C10H14  | 000934-74-7 | 64   |
| 4    |    | Benzene, 2-ethyl-1,3-dimethyl-      | 134 | C10H14  | 002870-04-4 | 64   |
| 5    |    | Benzene, 1-ethyl-3,5-dimethyl-      | 134 | C10H14  | 000934-74-7 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

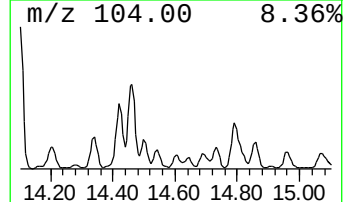
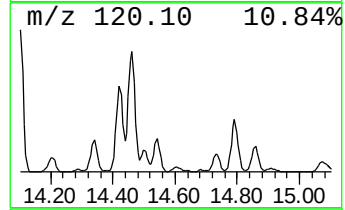
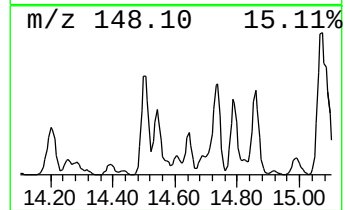
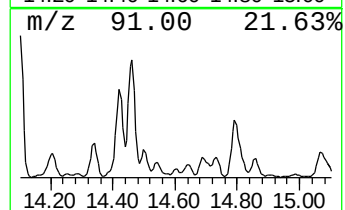
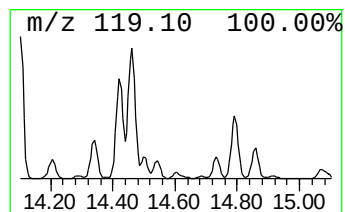
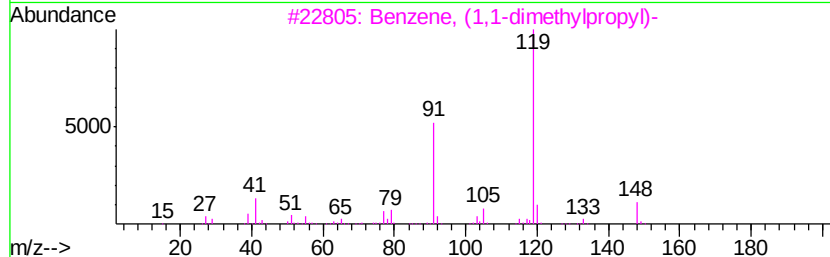
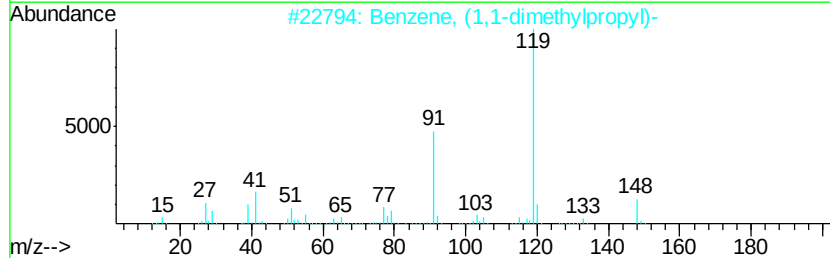
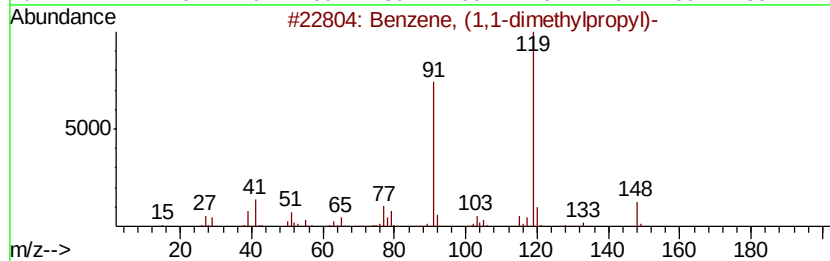
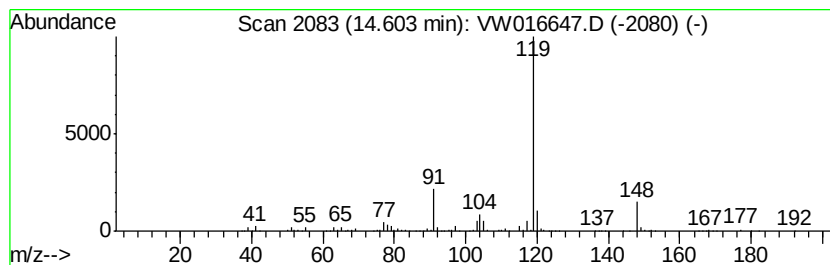
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 49 Benzene, (1,1-dimethylpropyl)- Concentration Rank 60

| R.T.  | EstConc   | Area    | Relative to ISTD       | R.T.  |
|-------|-----------|---------|------------------------|-------|
| 14.60 | 1.64 ug/L | 1130430 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, (1,1-dimethylpropyl)-      | 148 | C11H16  | 002049-95-8 | 83   |
| 2    |    |   | Benzene, (1,1-dimethylpropyl)-      | 148 | C11H16  | 002049-95-8 | 78   |
| 3    |    |   | Benzene, (1,1-dimethylpropyl)-      | 148 | C11H16  | 002049-95-8 | 72   |
| 4    |    |   | Benzene, (1,1-dimethylpropyl)-      | 148 | C11H16  | 002049-95-8 | 72   |
| 5    |    |   | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16  | 001595-16-0 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
 Data File : VW016647.D  
 Acq On : 24 Sep 2020 18:00  
 Operator : SY/VA  
 Sample : L4109-12  
 Misc : 6.21G/10ML/MSVOA W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
 Quant Title : VOC Analysis

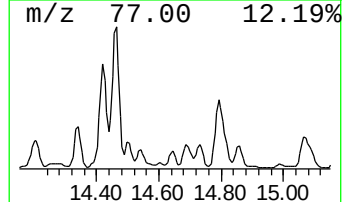
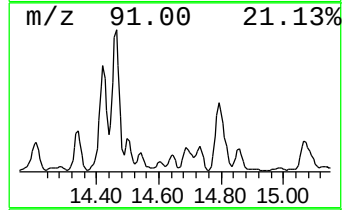
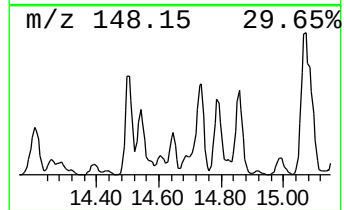
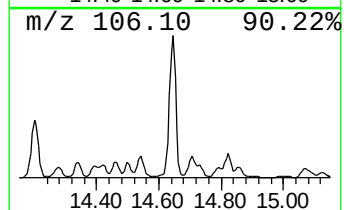
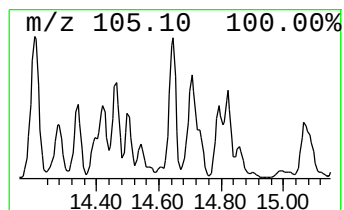
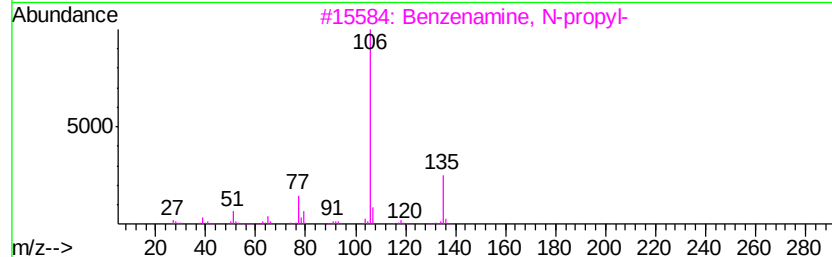
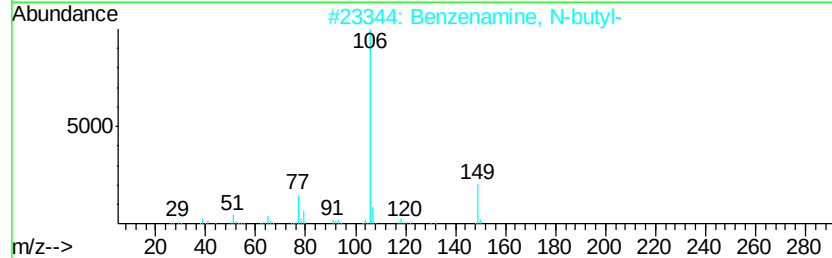
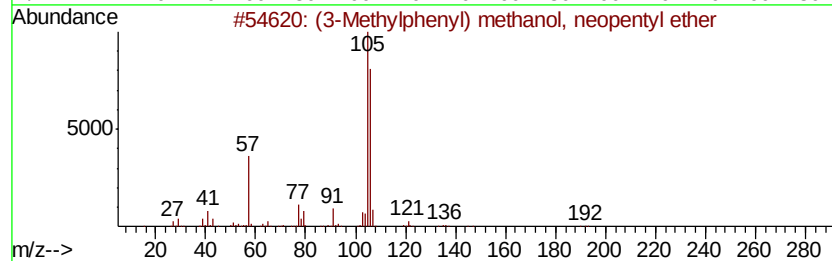
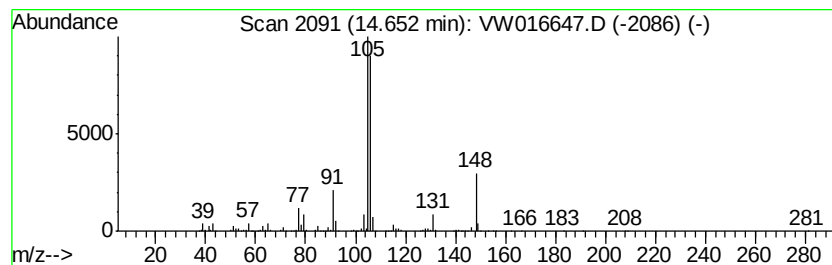
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 50 (3-Methylphenyl) methanol, ... Concentration Rank 49

| R.T.  | EstConc   | Area    | Relative to ISTD       | R.T.  |
|-------|-----------|---------|------------------------|-------|
| 14.65 | 3.57 ug/L | 2463360 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | (3-Methylphenyl) methanol, neope... | 192 | C13H20O | 1000374-44-1 | 64   |
| 2    |    | Benzenamine, N-butyl-               | 149 | C10H15N | 001126-78-9  | 50   |
| 3    |    | Benzenamine, N-propyl-              | 135 | C9H13N  | 000622-80-0  | 50   |
| 4    |    | Benzenamine, 4-butyl-               | 149 | C10H15N | 000104-13-2  | 50   |
| 5    |    | 4-Methylphenyl acetone              | 148 | C10H12O | 002096-86-8  | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

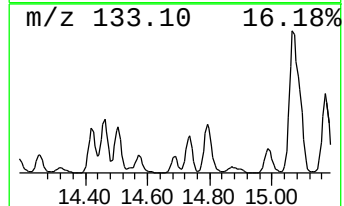
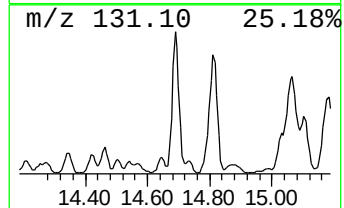
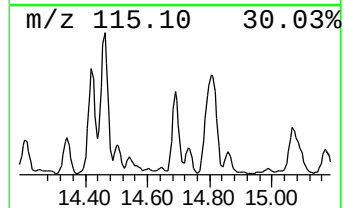
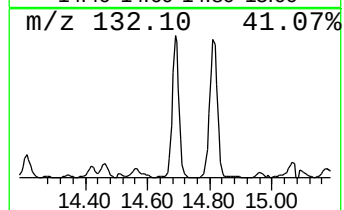
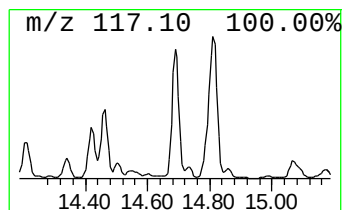
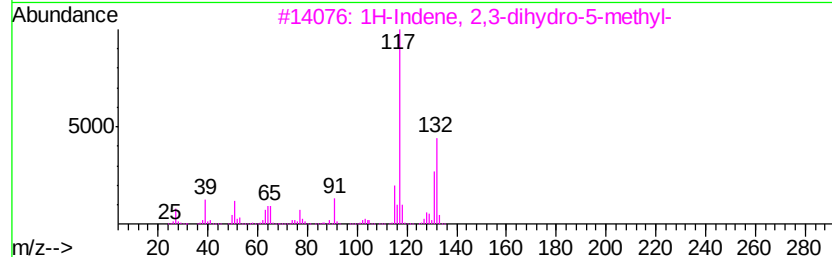
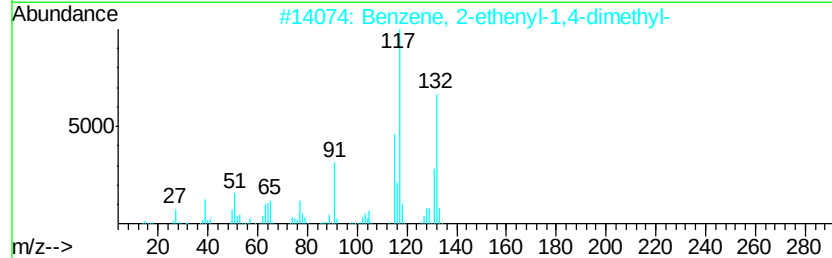
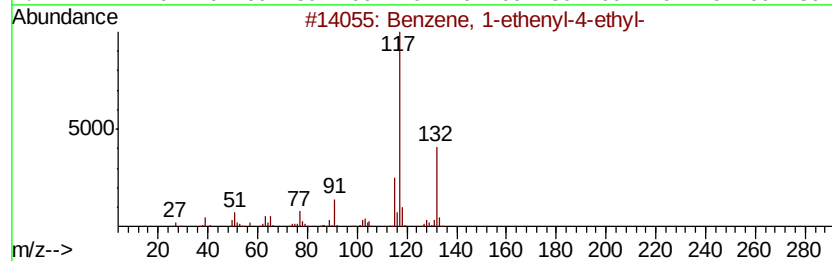
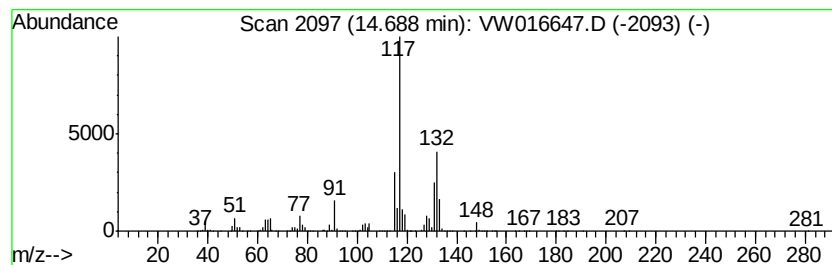
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 51 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 28

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 14.69 | 12.21 ug/L | 8411440 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethenyl-4-ethyl-      | 132 | C10H12  | 003454-07-7 | 93   |
| 2    |    | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12  | 002039-89-6 | 91   |
| 3    |    | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12  | 000874-35-1 | 87   |
| 4    |    | Benzene, 1-ethenyl-3-ethyl-      | 132 | C10H12  | 007525-62-4 | 87   |
| 5    |    | 3-Phenylbut-1-ene                | 132 | C10H12  | 000934-10-1 | 87   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

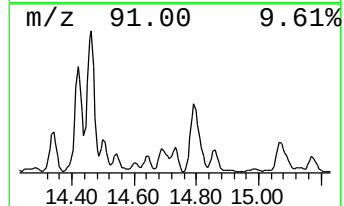
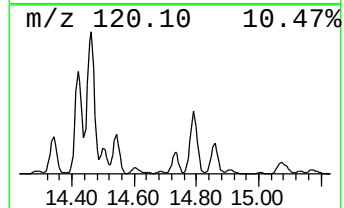
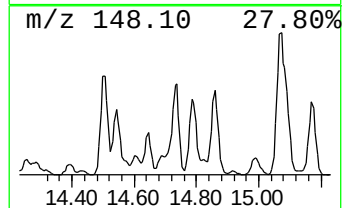
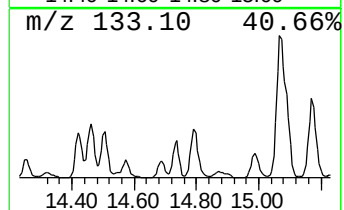
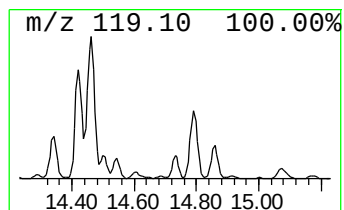
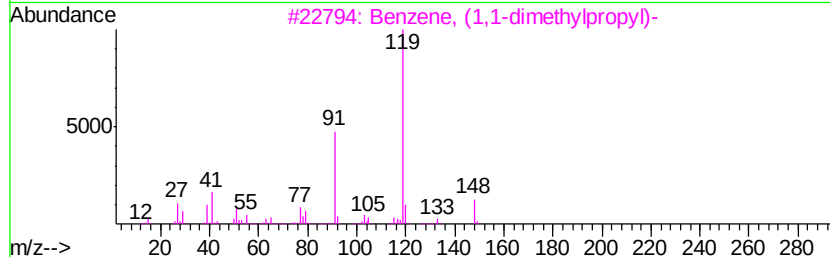
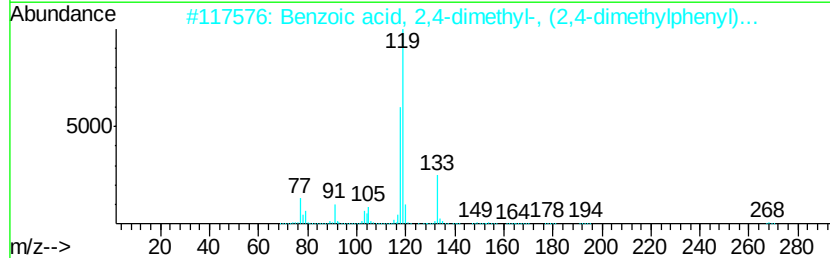
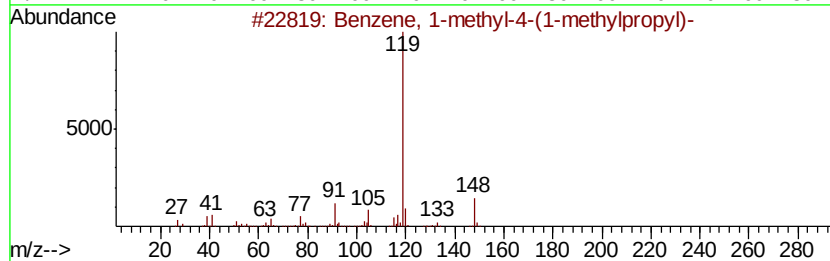
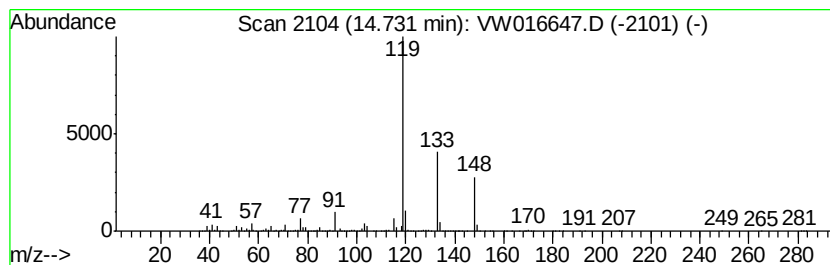
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 52 unknown-02 Concentration Rank 32

| R.T.    | EstConc   | Area                                | Relative to ISTD       | R.T.           |
|---------|-----------|-------------------------------------|------------------------|----------------|
| 14.73   | 9.31 ug/L | 6414100                             | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5         | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |           | Benzene, 1-methyl-4-(1-methylpro... | 148 C11H16             | 001595-16-0 68 |
| 2       |           | Benzoic acid, 2,4-dimethyl-, (2,... | 268 C18H20O2           | 055000-43-6 64 |
| 3       |           | Benzene, (1,1-dimethylpropyl)-      | 148 C11H16             | 002049-95-8 59 |
| 4       |           | 2-Propenal, 3-(2-pyridinylamino)-   | 148 C8H8N2O            | 068970-82-1 50 |
| 5       |           | p-Cymene                            | 134 C10H14             | 000099-87-6 49 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

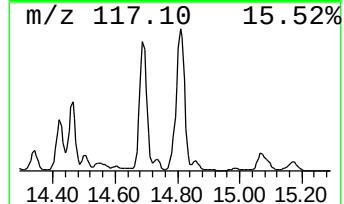
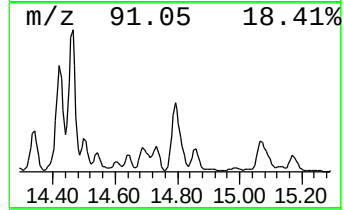
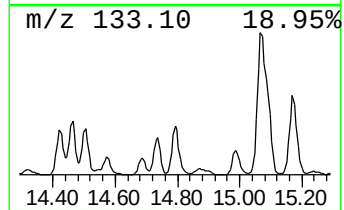
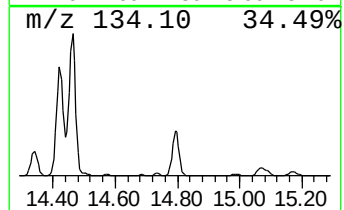
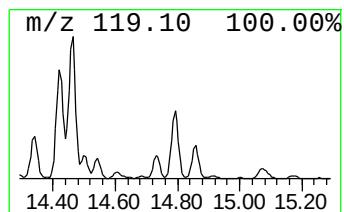
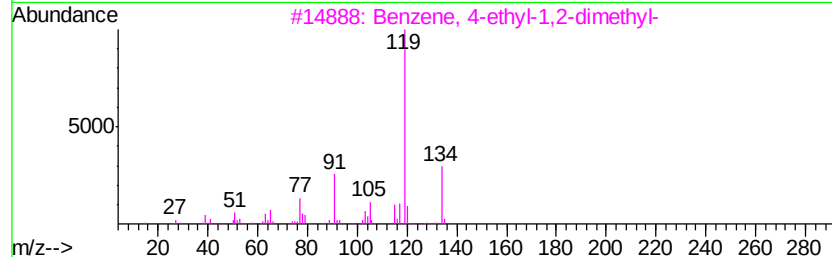
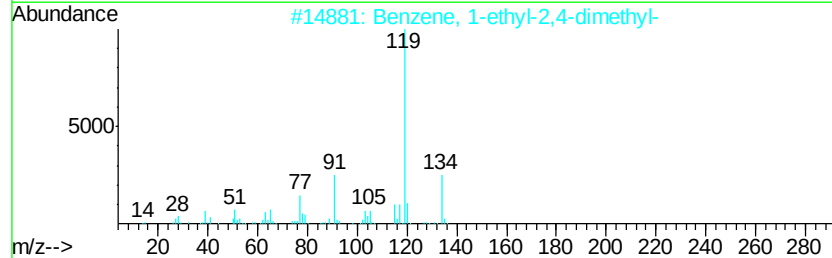
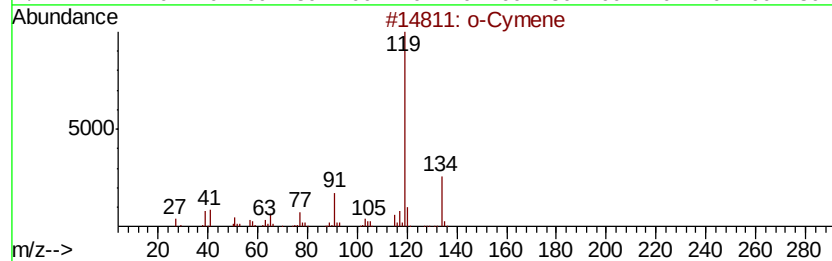
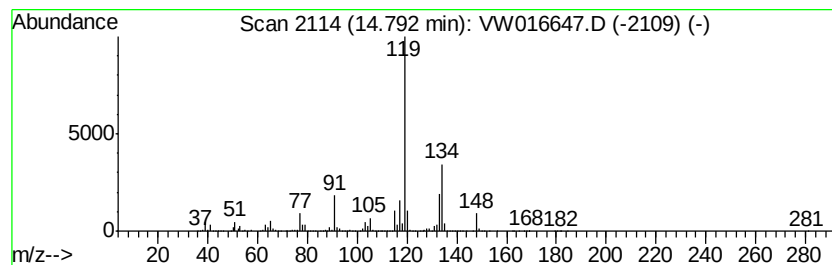
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 53 Benzene, 1-methyl-3-(1-meth... Concentration Rank 16

| R.T.  | EstConc    | Area     | Relative to ISTD       | R.T.  |
|-------|------------|----------|------------------------|-------|
| 14.79 | 35.96 ug/L | 24778500 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 95   |
| 2    |    | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 94   |
| 3    |    | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 93   |
| 4    |    | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 87   |
| 5    |    | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 87   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092520\  
Data File : VW016647.D  
Acq On : 24 Sep 2020 18:00  
Operator : SY/VA  
Sample : L4109-12  
Misc : 6.21G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
Quant Title : VOC Analysis

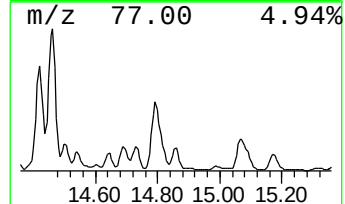
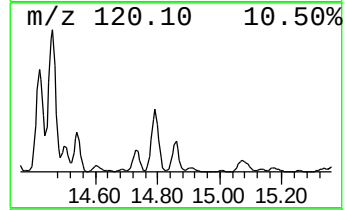
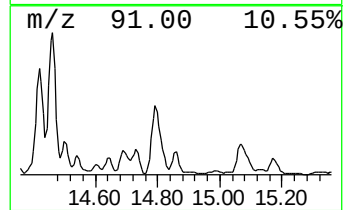
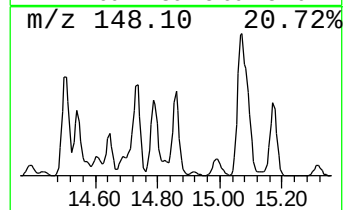
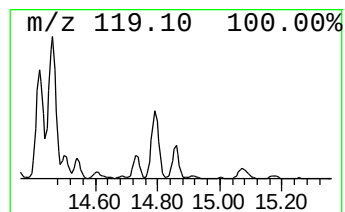
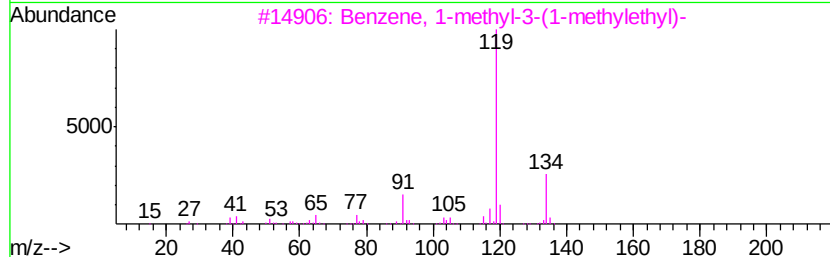
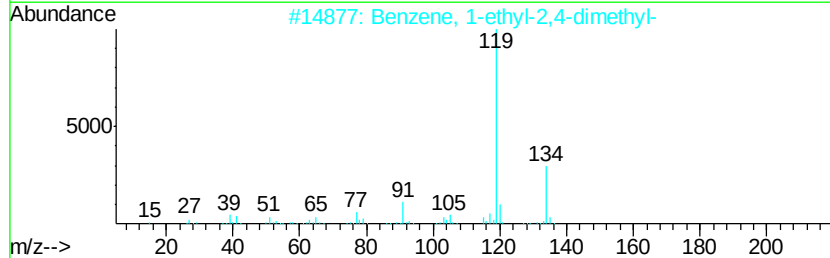
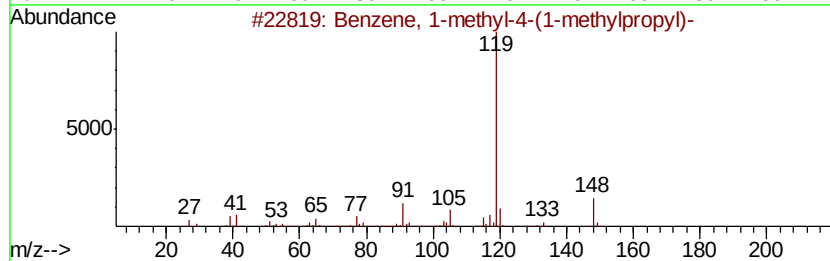
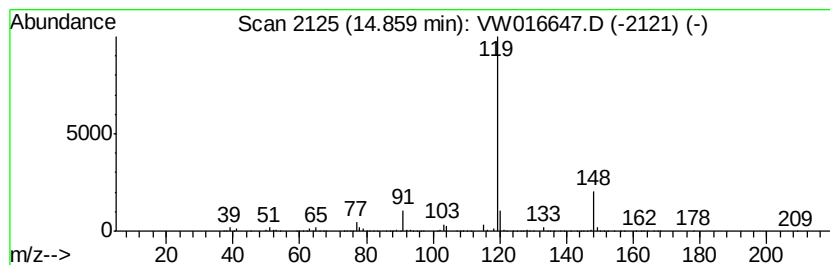
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 54 unknown-03 Concentration Rank 36

| R.T.  | EstConc   | Area    | Relative to ISTD       | R.T.  |
|-------|-----------|---------|------------------------|-------|
| 14.86 | 8.13 ug/L | 5601960 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16  | 001595-16-0 | 90   |
| 2    |    | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 64   |
| 3    |    | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 64   |
| 4    |    | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 64   |
| 5    |    | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW092520\  
 Data File : VW016647.D  
 Acq On : 24 Sep 2020 18:00  
 Operator : SY/VA  
 Sample : L4109-12  
 Misc : 6.21G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG3X2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM091520S.M  
 Quant Title : VOC Analysis

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

|                      |       |         |       |           | --Internal Standard-- |       |          |      |
|----------------------|-------|---------|-------|-----------|-----------------------|-------|----------|------|
| TIC Top Hit name     | RT    | EstConc | Units | Response  | #                     | RT    | Resp     | Conc |
| (DEL) Alkane: Str... | 5.45  | 1187.7  | ug/L  | 70696400  | 1                     | 8.85  | 1488150  | 25.0 |
| (DEL) Alkane: Str... | 5.96  | 1737.8  | ug/L  | 103445000 | 1                     | 8.85  | 1488150  | 25.0 |
| (DEL) Alkane: Str... | 6.73  | 158.2   | ug/L  | 9416110   | 1                     | 8.85  | 1488150  | 25.0 |
| (DEL) Alkane: Str... | 6.88  | 102.5   | ug/L  | 6103170   | 1                     | 8.85  | 1488150  | 25.0 |
| (DEL) Alkane: Cyc... | 6.99  | 265.1   | ug/L  | 15781000  | 1                     | 8.85  | 1488150  | 25.0 |
| (DEL) Alkane: Str... | 8.04  | 4.0     | ug/L  | 239934    | 1                     | 8.85  | 1488150  | 25.0 |
| (DEL) Alkane: Str... | 8.16  | 8.1     | ug/L  | 484222    | 1                     | 8.85  | 1488150  | 25.0 |
| (DEL) Alkane: Str... | 8.70  | 7.7     | ug/L  | 460769    | 1                     | 8.85  | 1488150  | 25.0 |
| (DEL) Alkane: Str... | 9.76  | 11.1    | ug/L  | 663006    | 1                     | 8.85  | 1488150  | 25.0 |
| (DEL) Alkane: Str... | 9.90  | 21.2    | ug/L  | 1262490   | 1                     | 8.85  | 1488150  | 25.0 |
| (DEL) Alkane: Str... | 10.10 | 5.1     | ug/L  | 303731    | 1                     | 8.85  | 1488150  | 25.0 |
| (DEL) Alkane: Str... | 10.25 | 28.4    | ug/L  | 2445770   | 2                     | 11.63 | 2156300  | 25.0 |
| (DEL) Alkane: Str... | 10.51 | 4.6     | ug/L  | 392962    | 2                     | 11.63 | 2156300  | 25.0 |
| (DEL) Alkane: Str... | 11.04 | 2.3     | ug/L  | 197245    | 2                     | 11.63 | 2156300  | 25.0 |
| (DEL) Alkane: Cyc... | 11.18 | 2.2     | ug/L  | 187909    | 2                     | 11.63 | 2156300  | 25.0 |
| (DEL) Alkane: Str... | 11.41 | 4.6     | ug/L  | 396943    | 2                     | 11.63 | 2156300  | 25.0 |
| (DEL) Alkane: Str... | 12.03 | 2.0     | ug/L  | 172685    | 2                     | 11.63 | 2156300  | 25.0 |
| (DEL) Alkane: Str... | 12.07 | 5.5     | ug/L  | 471747    | 2                     | 11.63 | 2156300  | 25.0 |
| (DEL) Alkane: Str... | 12.25 | 8.8     | ug/L  | 760311    | 2                     | 11.63 | 2156300  | 25.0 |
| (DEL) Alkane: Str... | 12.33 | 7.0     | ug/L  | 604923    | 2                     | 11.63 | 2156300  | 25.0 |
| 1-Propene, 1,1'-o... | 12.37 | 5.7     | ug/L  | 495509    | 2                     | 11.63 | 2156300  | 25.0 |
| (DEL) Alkane: Str... | 12.59 | 41.2    | ug/L  | 3550900   | 2                     | 11.63 | 2156300  | 25.0 |
| (DEL) Alkane: Str... | 12.76 | 1.6     | ug/L  | 1136750   | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, propyl-     | 12.80 | 35.6    | ug/L  | 24568800  | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 1-ethyl-... | 12.87 | 73.4    | ug/L  | 50567000  | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 1,2,3-tr... | 12.90 | 39.8    | ug/L  | 27395900  | 3                     | 13.56 | 17228600 | 25.0 |
| Mesitylene           | 12.94 | 48.6    | ug/L  | 33514600  | 3                     | 13.56 | 17228600 | 25.0 |
| 4-Heptanone, 2,6-... | 13.04 | 1.4     | ug/L  | 936055    | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 1-ethyl-... | 13.11 | 24.7    | ug/L  | 17030600  | 3                     | 13.56 | 17228600 | 25.0 |
| (DEL) Alkane: Str... | 13.17 | 1.9     | ug/L  | 1293270   | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 1-ethyl-... | 13.26 | 99.0    | ug/L  | 68197200  | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 1-methyl... | 13.38 | 15.1    | ug/L  | 10410200  | 3                     | 13.56 | 17228600 | 25.0 |
| p-Cymene             | 13.44 | 8.6     | ug/L  | 5940380   | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 1,2-diet... | 13.72 | 16.9    | ug/L  | 11669700  | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 1-methyl... | 13.75 | 43.2    | ug/L  | 29790100  | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 1,3-diet... | 13.80 | 70.6    | ug/L  | 48638700  | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 1-methyl... | 13.95 | 15.4    | ug/L  | 10592000  | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 2-ethyl-... | 14.01 | 33.2    | ug/L  | 22888600  | 3                     | 13.56 | 17228600 | 25.0 |
| o-Cymene             | 14.04 | 27.4    | ug/L  | 18910000  | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 1-ethyl-... | 14.10 | 57.2    | ug/L  | 39410800  | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 1,2,3,4-... | 14.21 | 10.2    | ug/L  | 6992050   | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 1,3-dime... | 14.26 | 1.4     | ug/L  | 936842    | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 4-ethyl-... | 14.34 | 13.2    | ug/L  | 9075740   | 3                     | 13.56 | 17228600 | 25.0 |
| unknown-01           | 14.42 | 41.6    | ug/L  | 28651000  | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 1,2,4,5-... | 14.46 | 51.7    | ug/L  | 35634000  | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, pentamet... | 14.50 | 10.1    | ug/L  | 6963710   | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, 1-methyl... | 14.54 | 7.3     | ug/L  | 5059430   | 3                     | 13.56 | 17228600 | 25.0 |
| Benzene, (1,1-dim... | 14.60 | 1.6     | ug/L  | 1130430   | 3                     | 13.56 | 17228600 | 25.0 |
| (3-Methylphenyl) ... | 14.65 | 3.6     | ug/L  | 2463360   | 3                     | 13.56 | 17228600 | 25.0 |

|                      |       |      |      |          |   |       |          |      |
|----------------------|-------|------|------|----------|---|-------|----------|------|
| Benzene, 1-etheny... | 14.69 | 12.2 | ug/L | 8411440  | 3 | 13.56 | 17228600 | 25.0 |
| unknown-02           | 14.73 | 9.3  | ug/L | 6414100  | 3 | 13.56 | 17228600 | 25.0 |
| Benzene, 1-methyl... | 14.79 | 36.0 | ug/L | 24778500 | 3 | 13.56 | 17228600 | 25.0 |
| unknown-03           | 14.86 | 8.1  | ug/L | 5601960  | 3 | 13.56 | 17228600 | 25.0 |

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3X2