

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081919\  
 Data File : VW012000.D  
 Acq On : 19 Aug 2019 20:02  
 Operator : SY/VA  
 Sample : K4391-05  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 W-WALL

Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % 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\82W072719S.M  
 Title : SW846 8260

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         | 4.903       | 479           | 492         | 500          | rBV4     | 19077          | 81015         | 1.32%           | 0.104%        |
| 2         | 5.434       | 565           | 579         | 591          | rBV2     | 46836          | 167561        | 2.73%           | 0.215%        |
| 3         | 6.720       | 778           | 790         | 805          | rBV3     | 21112          | 77486         | 1.26%           | 0.100%        |
| 4         | 6.879       | 805           | 816         | 824          | rBV2     | 44804          | 143882        | 2.34%           | 0.185%        |
| 5         | 6.982       | 824           | 833         | 844          | rVB2     | 48006          | 144388        | 2.35%           | 0.186%        |
| 6         | 7.696       | 939           | 950         | 966          | rVB      | 38828          | 124319        | 2.02%           | 0.160%        |
| 7         | 7.885       | 971           | 981         | 986          | rBV      | 183123         | 440161        | 7.17%           | 0.566%        |
| 8         | 7.945       | 986           | 991         | 999          | rVV3     | 423689         | 986273        | 16.06%          | 1.268%        |
| 9         | 8.031       | 999           | 1005        | 1020         | rVV      | 237239         | 620995        | 10.11%          | 0.798%        |
| 10        | 8.220       | 1029          | 1036        | 1044         | rVV      | 138950         | 367750        | 5.99%           | 0.473%        |
| 11        | 8.305       | 1044          | 1050        | 1060         | rVV      | 193982         | 433355        | 7.06%           | 0.557%        |
| 12        | 8.433       | 1060          | 1071        | 1077         | rVV3     | 260868         | 684919        | 11.15%          | 0.880%        |
| 13        | 8.506       | 1077          | 1083        | 1088         | rVV2     | 194962         | 447057        | 7.28%           | 0.575%        |
| 14        | 8.573       | 1088          | 1094        | 1107         | rVB      | 398168         | 925860        | 15.08%          | 1.190%        |
| 15        | 8.842       | 1129          | 1138        | 1149         | rBV      | 536658         | 1077607       | 17.55%          | 1.385%        |
| 16        | 9.146       | 1180          | 1188        | 1203         | rVB      | 75340          | 176452        | 2.87%           | 0.227%        |
| 17        | 9.335       | 1203          | 1219        | 1224         | rBV2     | 1607456        | 4666125       | 75.98%          | 5.998%        |
| 18        | 9.384       | 1224          | 1227        | 1236         | rVV      | 368539         | 667762        | 10.87%          | 0.858%        |
| 19        | 9.518       | 1243          | 1249        | 1253         | rVV      | 98457          | 201716        | 3.28%           | 0.259%        |
| 20        | 9.610       | 1253          | 1264        | 1273         | rVB2     | 807961         | 1910001       | 31.10%          | 2.455%        |
| 21        | 9.750       | 1279          | 1287        | 1298         | rVB      | 957756         | 1883103       | 30.66%          | 2.421%        |
| 22        | 9.854       | 1298          | 1304        | 1306         | rBV2     | 59705          | 105757        | 1.72%           | 0.136%        |
| 23        | 9.896       | 1306          | 1311        | 1315         | rBV      | 242648         | 423886        | 6.90%           | 0.545%        |
| 24        | 9.945       | 1315          | 1319        | 1333         | rVB2     | 225512         | 500669        | 8.15%           | 0.644%        |
| 25        | 10.079      | 1333          | 1341        | 1346         | rBV      | 613533         | 1309961       | 21.33%          | 1.684%        |
| 26        | 10.128      | 1346          | 1349        | 1357         | rVB      | 321522         | 551715        | 8.98%           | 0.709%        |
| 27        | 10.244      | 1357          | 1368        | 1373         | rBV3     | 206142         | 607223        | 9.89%           | 0.781%        |
| 28        | 10.323      | 1373          | 1381        | 1385         | rBV2     | 3202827        | 6140928       | 100.00%         | 7.894%        |
| 29        | 10.445      | 1394          | 1401        | 1403         | rBV3     | 134706         | 219020        | 3.57%           | 0.282%        |
| 30        | 10.494      | 1403          | 1409        | 1419         | rVB4     | 1070441        | 2729356       | 44.45%          | 3.508%        |
| 31        | 10.622      | 1419          | 1430        | 1432         | rBV2     | 348781         | 769841        | 12.54%          | 0.990%        |
| 32        | 10.665      | 1432          | 1437        | 1445         | rVB      | 2846468        | 5166479       | 84.13%          | 6.641%        |
| 33        | 10.762      | 1445          | 1453        | 1458         | rBV3     | 1124209        | 2388050       | 38.89%          | 3.070%        |
| 34        | 10.847      | 1463          | 1467        | 1472         | rVB      | 309698         | 498217        | 8.11%           | 0.640%        |

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 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 W-WALL

## Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % 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\82W072719S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 10.933 | 1472 | 1481 | 1488 | rBV  | 1098124 | 2103937 | 34.26% | 2.704% |
| 36 | 11.036 | 1488 | 1498 | 1506 | rBV  | 766575  | 1814169 | 29.54% | 2.332% |
| 37 | 11.110 | 1506 | 1510 | 1513 | rBV  | 494283  | 869060  | 14.15% | 1.117% |
| 38 | 11.146 | 1513 | 1516 | 1518 | rVV2 | 666609  | 1066041 | 17.36% | 1.370% |
| 39 | 11.177 | 1518 | 1521 | 1525 | rVV  | 1130547 | 1846783 | 30.07% | 2.374% |
| 40 | 11.231 | 1525 | 1530 | 1535 | rVV  | 1556198 | 2841861 | 46.28% | 3.653% |
| 41 | 11.286 | 1535 | 1539 | 1543 | rVV  | 598627  | 977439  | 15.92% | 1.256% |
| 42 | 11.335 | 1543 | 1547 | 1551 | rVV2 | 575683  | 981850  | 15.99% | 1.262% |
| 43 | 11.378 | 1551 | 1554 | 1558 | rVB  | 309520  | 453877  | 7.39%  | 0.583% |
| 44 | 11.433 | 1558 | 1563 | 1571 | rVB  | 1555689 | 2867211 | 46.69% | 3.685% |
| 45 | 11.506 | 1571 | 1575 | 1579 | rBV  | 175066  | 250892  | 4.09%  | 0.322% |
| 46 | 11.548 | 1579 | 1582 | 1589 | rVB4 | 113642  | 189413  | 3.08%  | 0.243% |
| 47 | 11.634 | 1590 | 1596 | 1600 | rBV  | 665796  | 1152435 | 18.77% | 1.481% |
| 48 | 11.725 | 1607 | 1611 | 1613 | rBV  | 119324  | 148153  | 2.41%  | 0.190% |
| 49 | 11.768 | 1613 | 1618 | 1622 | rVV  | 610039  | 892117  | 14.53% | 1.147% |
| 50 | 11.817 | 1622 | 1626 | 1630 | rVB3 | 337422  | 533910  | 8.69%  | 0.686% |
| 51 | 11.872 | 1630 | 1635 | 1647 | rVB3 | 1155754 | 3507452 | 57.12% | 4.508% |
| 52 | 11.975 | 1647 | 1652 | 1654 | rBV3 | 150270  | 247730  | 4.03%  | 0.318% |
| 53 | 12.042 | 1658 | 1663 | 1671 | rVB3 | 421073  | 1010988 | 16.46% | 1.300% |
| 54 | 12.140 | 1671 | 1679 | 1684 | rBV2 | 1474317 | 3212900 | 52.32% | 4.130% |
| 55 | 12.195 | 1684 | 1688 | 1691 | rVV2 | 264444  | 437564  | 7.13%  | 0.562% |
| 56 | 12.250 | 1695 | 1697 | 1701 | rVB  | 565130  | 715497  | 11.65% | 0.920% |
| 57 | 12.304 | 1701 | 1706 | 1708 | rBV  | 485885  | 837956  | 13.65% | 1.077% |
| 58 | 12.341 | 1708 | 1712 | 1722 | rVB3 | 711642  | 1860406 | 30.30% | 2.391% |
| 59 | 12.420 | 1722 | 1725 | 1727 | rBV  | 128454  | 168749  | 2.75%  | 0.217% |
| 60 | 12.615 | 1752 | 1757 | 1763 | rBV  | 672171  | 1141326 | 18.59% | 1.467% |
| 61 | 12.701 | 1763 | 1771 | 1775 | rVV4 | 396710  | 900835  | 14.67% | 1.158% |
| 62 | 12.743 | 1776 | 1778 | 1780 | rVV2 | 216133  | 296742  | 4.83%  | 0.381% |
| 63 | 12.780 | 1780 | 1784 | 1791 | rVB2 | 736723  | 1345180 | 21.91% | 1.729% |
| 64 | 12.859 | 1791 | 1797 | 1801 | rBV3 | 264388  | 568672  | 9.26%  | 0.731% |
| 65 | 12.938 | 1804 | 1810 | 1816 | rVV5 | 397024  | 1090779 | 17.76% | 1.402% |
| 66 | 12.993 | 1816 | 1819 | 1824 | rVB2 | 200780  | 307386  | 5.01%  | 0.395% |
| 67 | 13.079 | 1829 | 1833 | 1837 | rVB3 | 190026  | 287063  | 4.67%  | 0.369% |
| 68 | 13.121 | 1837 | 1840 | 1844 | rBV3 | 87677   | 135080  | 2.20%  | 0.174% |
| 69 | 13.170 | 1844 | 1848 | 1859 | rVB6 | 155094  | 386481  | 6.29%  | 0.497% |
| 70 | 13.292 | 1864 | 1868 | 1872 | rVB2 | 138854  | 186851  | 3.04%  | 0.240% |
| 71 | 13.377 | 1879 | 1882 | 1886 | rBV4 | 65498   | 106609  | 1.74%  | 0.137% |

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ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
W-WALL

## Integration Parameters: RTEINT.P

Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Title : SW846 8260

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 72 | 13.426 | 1886 | 1890 | 1897 | rVV4 | 111830 | 310504  | 5.06%  | 0.399% |
| 73 | 13.481 | 1897 | 1899 | 1904 | rVV4 | 80518  | 100359  | 1.63%  | 0.129% |
| 74 | 13.560 | 1905 | 1912 | 1919 | rVB  | 606005 | 1120187 | 18.24% | 1.440% |
| 75 | 13.627 | 1919 | 1923 | 1929 | rBV7 | 29133  | 61637   | 1.00%  | 0.079% |
| 76 | 13.877 | 1958 | 1964 | 1970 | rBV  | 309953 | 516483  | 8.41%  | 0.664% |
| 77 | 14.261 | 2023 | 2027 | 2034 | rVB6 | 37801  | 66617   | 1.08%  | 0.086% |
| 78 | 14.383 | 2043 | 2047 | 2051 | rBV2 | 84972  | 131700  | 2.14%  | 0.169% |
| 79 | 14.548 | 2069 | 2074 | 2079 | rVB3 | 65588  | 109345  | 1.78%  | 0.141% |

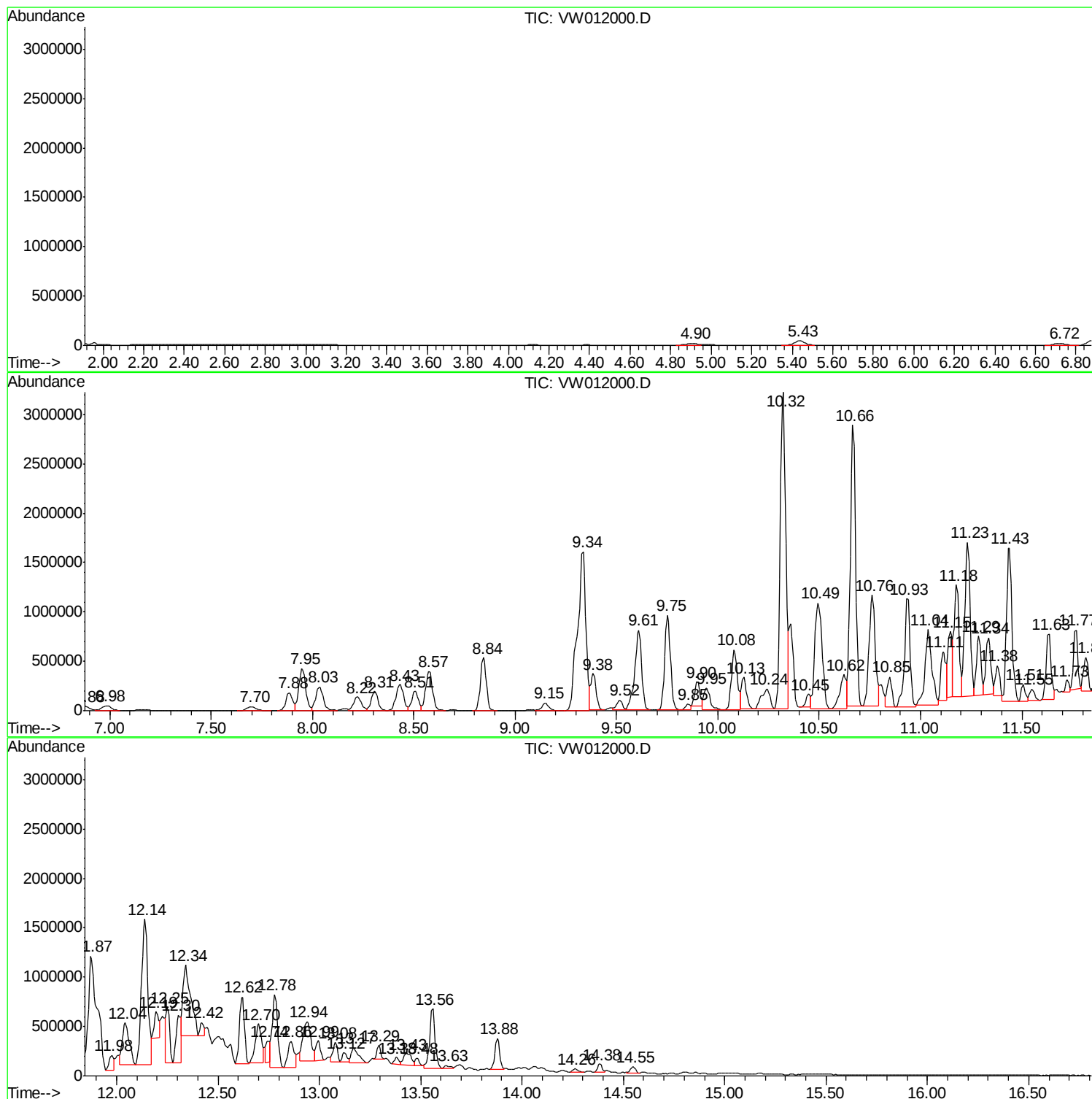
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081919\  
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Instrument :  
MSVOA\_W  
ClientSampleId :  
W-WALL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081919\  
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Instrument :  
MSVOA\_W  
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W-WALL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260

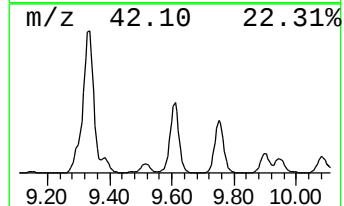
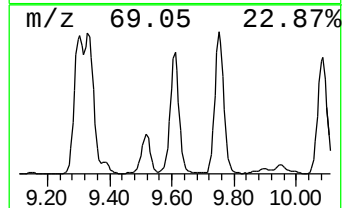
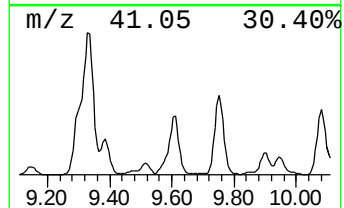
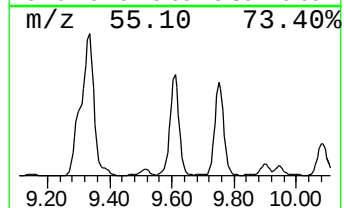
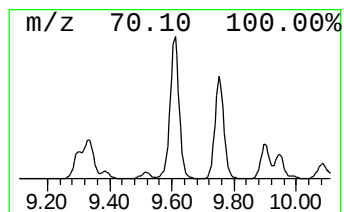
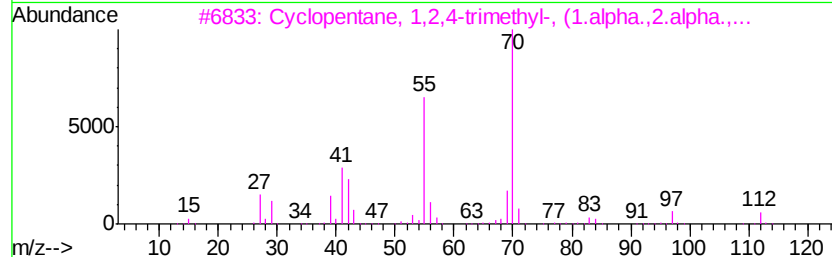
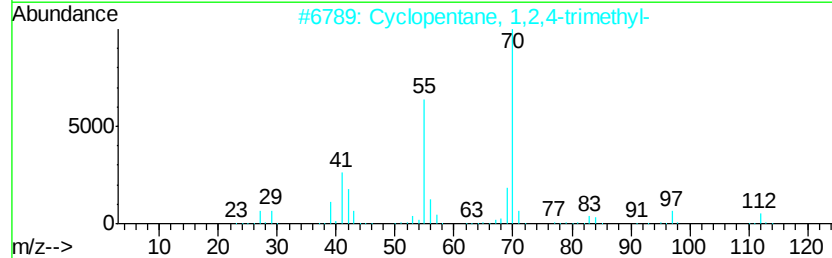
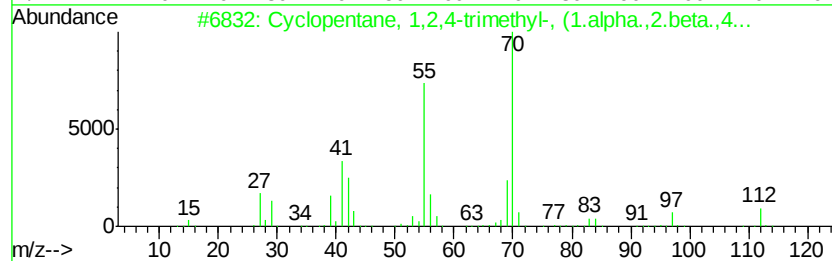
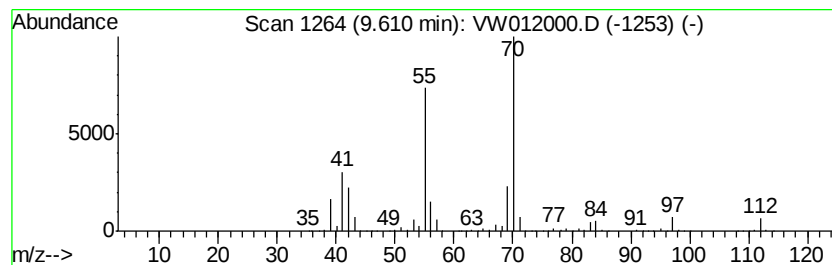
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Cyclopentane, 1,2,4-trimeth... Concentration Rank 9

| R.T. | EstConc    | Area    | Relative to ISTD    | R.T. |
|------|------------|---------|---------------------|------|
| 9.61 | 88.62 ug/l | 1910000 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclopentane, 1,2,4-trimethyl-, ... | 112 | C8H16   | 016883-48-0 | 94   |
| 2    |    | Cyclopentane, 1,2,4-trimethyl-      | 112 | C8H16   | 002815-58-9 | 94   |
| 3    |    | Cyclopentane, 1,2,4-trimethyl-, ... | 112 | C8H16   | 004850-28-6 | 91   |
| 4    |    | Nonane, 3-methylene-                | 140 | C10H20  | 051655-64-2 | 72   |
| 5    |    | Cyclobutane, 2-ethyl-1-methyl-3-... | 140 | C10H20  | 061233-72-5 | 72   |



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ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
W-WALL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260

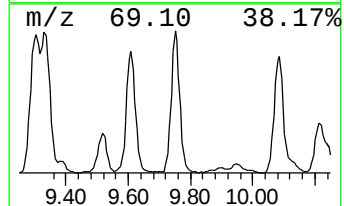
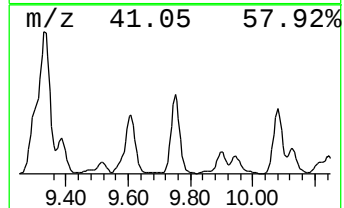
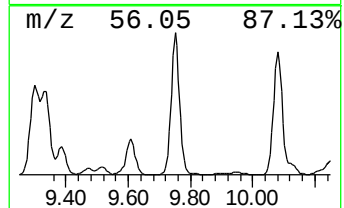
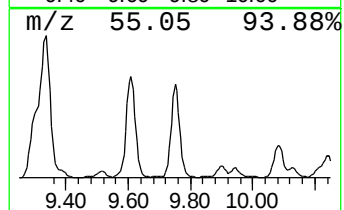
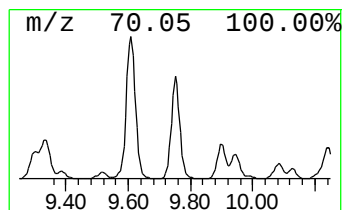
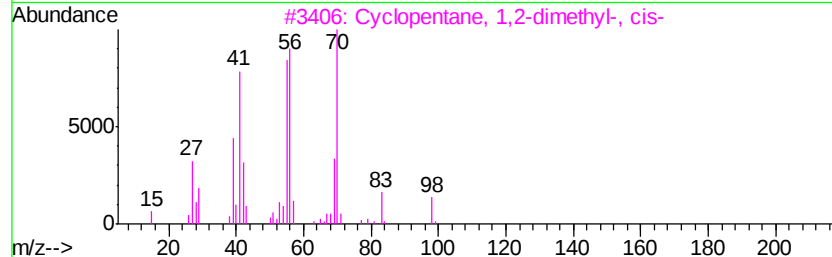
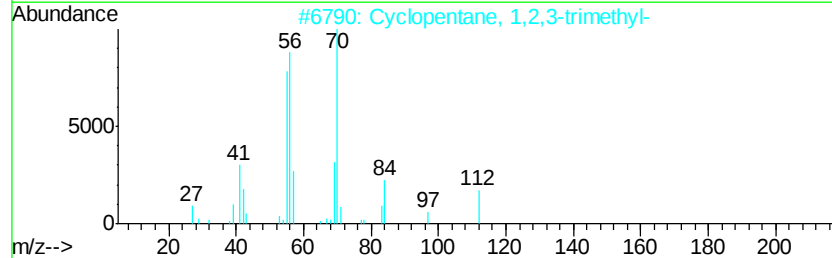
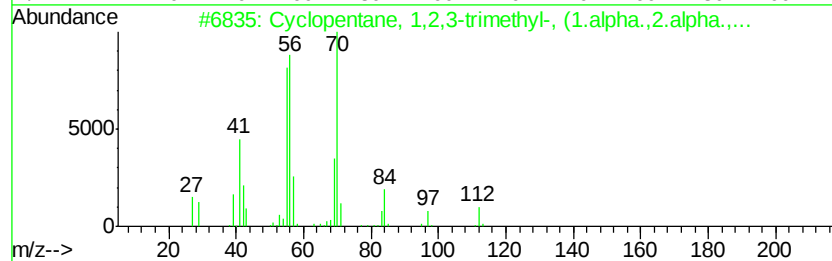
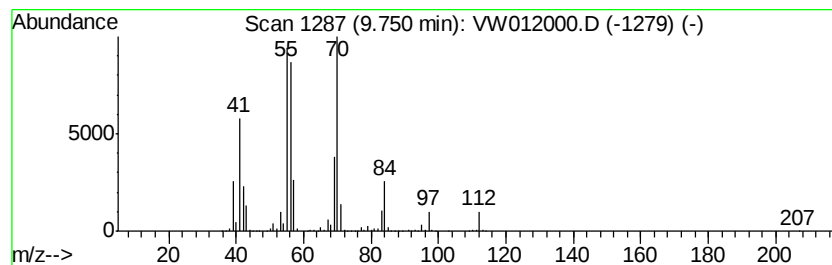
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Cyclopentane, 1,2,3-trimeth... Concentration Rank 10

| R.T. | EstConc    | Area    | Relative to ISTD    | R.T. |
|------|------------|---------|---------------------|------|
| 9.75 | 87.37 ug/l | 1883100 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclopentane, 1,2,3-trimethyl-, ... | 112 | C8H16   | 015890-40-1 | 95   |
| 2    |    | Cyclopentane, 1,2,3-trimethyl-      | 112 | C8H16   | 002815-57-8 | 91   |
| 3    |    | Cyclopentane, 1,2-dimethyl-, cis-   | 98  | C7H14   | 001192-18-3 | 72   |
| 4    |    | cis-1-Butyl-2-methylcyclopropane    | 112 | C8H16   | 038851-69-3 | 64   |
| 5    |    | Heptane, 3-methylene-               | 112 | C8H16   | 001632-16-2 | 53   |



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ClientSampleId :  
W-WALL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260

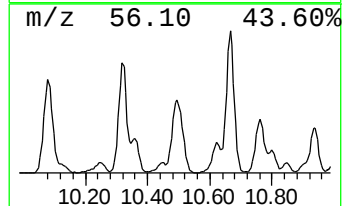
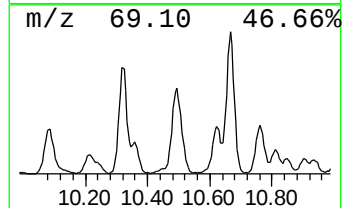
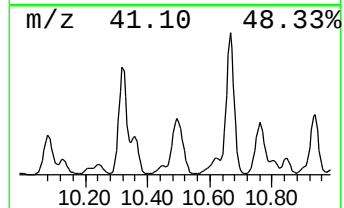
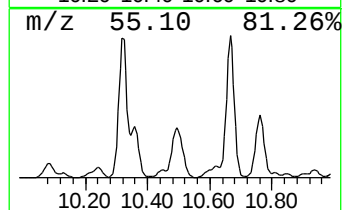
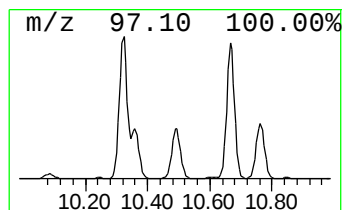
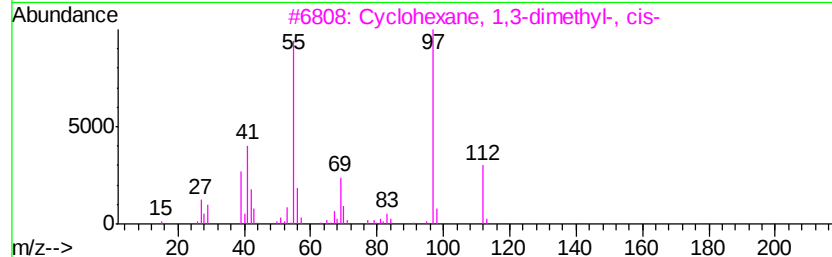
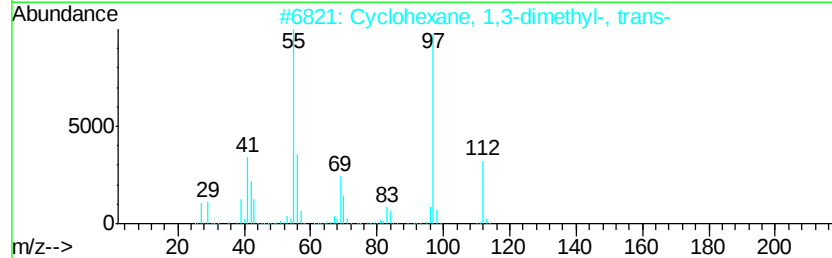
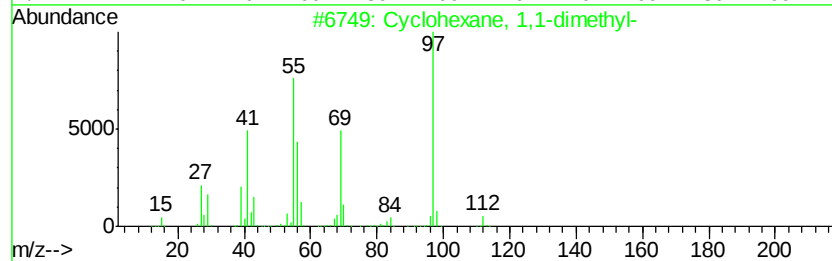
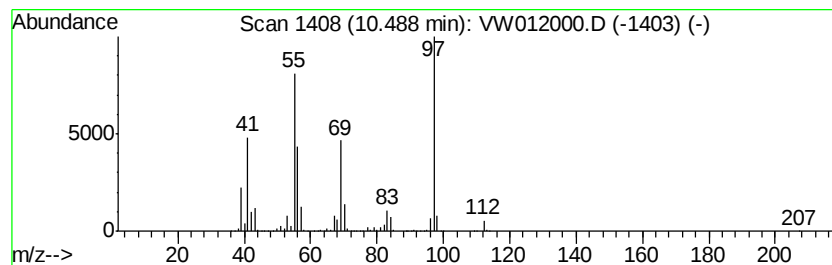
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Cyclohexane, 1,1-dimethyl- Concentration Rank 6

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 10.49 | 118.42 ug/l | 2729360 | Chlorobenzene-d5 | 11.63 |

| Hit# of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|---------|---|------------------------------------|-----|---------|-------------|------|
| 1       |   | Cyclohexane, 1,1-dimethyl-         | 112 | C8H16   | 000590-66-9 | 95   |
| 2       |   | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16   | 002207-03-6 | 83   |
| 3       |   | Cyclohexane, 1,3-dimethyl-, cis-   | 112 | C8H16   | 000638-04-0 | 64   |
| 4       |   | 2,5-Dimethyl-1-pyrroline           | 97  | C6H11N  | 000822-64-0 | 64   |
| 5       |   | Cyclohexane, 1,3-dimethyl-         | 112 | C8H16   | 000591-21-9 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081919\  
Data File : VW012000.D  
Acq On : 19 Aug 2019 20:02  
Operator : SY/VA  
Sample : K4391-05  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampled :  
W-WALL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260

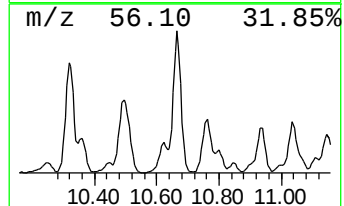
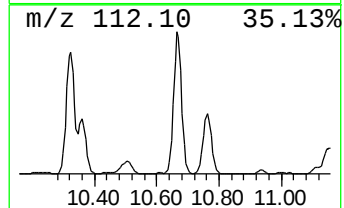
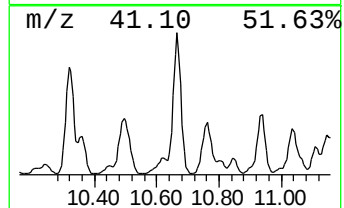
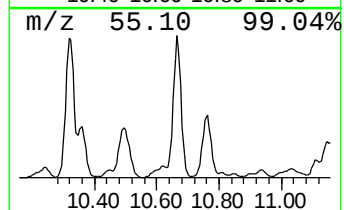
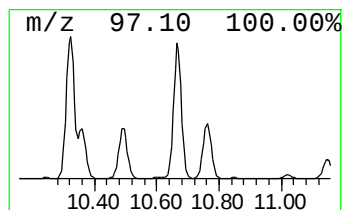
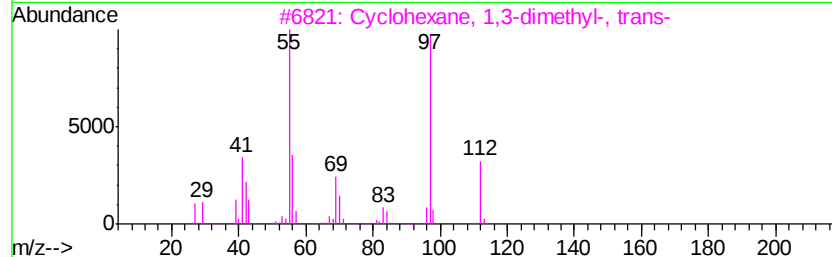
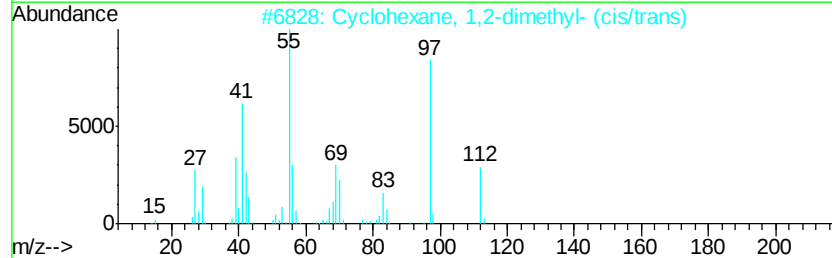
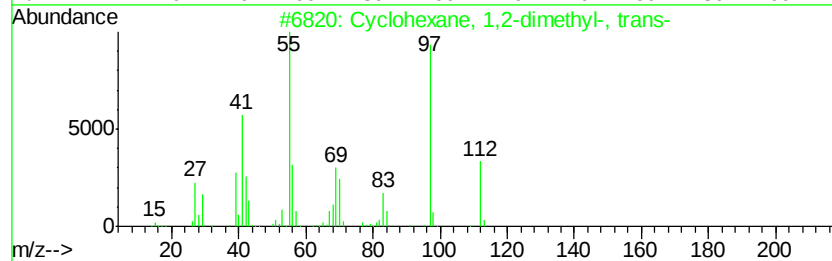
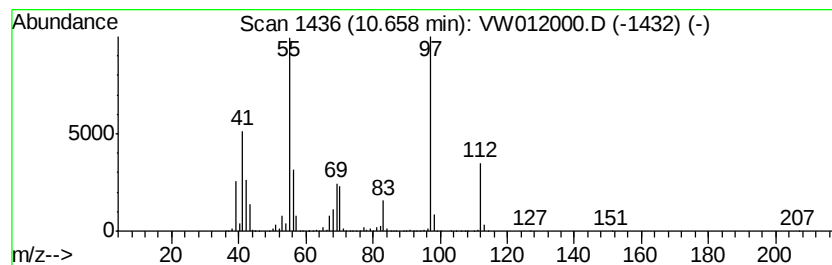
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Cyclohexane, 1,2-dimethyl-,... Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 10.66 | 224.16 ug/l | 5166480 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1,2-dimethyl-, trans-  | 112 | C8H16   | 006876-23-9 | 94   |
| 2    |    | Cyclohexane, 1,2-dimethyl- (cis/... | 112 | C8H16   | 000583-57-3 | 90   |
| 3    |    | Cyclohexane, 1,3-dimethyl-, trans-  | 112 | C8H16   | 002207-03-6 | 90   |
| 4    |    | Cyclohexane, 1,3-dimethyl-, cis-    | 112 | C8H16   | 000638-04-0 | 87   |
| 5    |    | Cyclohexane, 1,4-dimethyl-, trans-  | 112 | C8H16   | 002207-04-7 | 83   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081919\  
Data File : VW012000.D  
Acq On : 19 Aug 2019 20:02  
Operator : SY/VA  
Sample : K4391-05  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
W-WALL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260

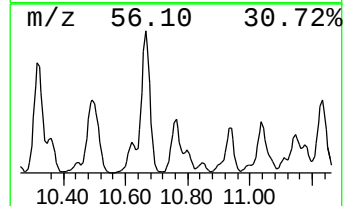
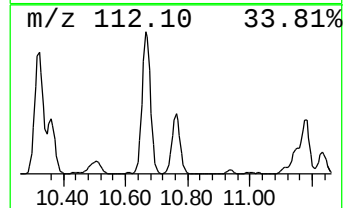
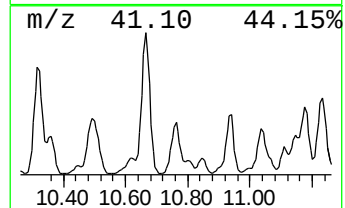
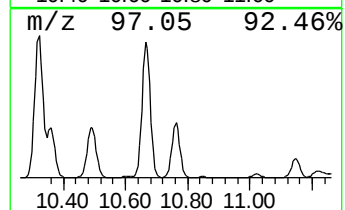
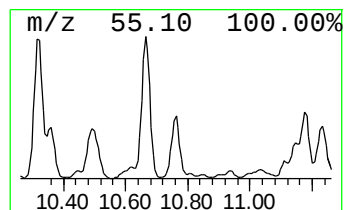
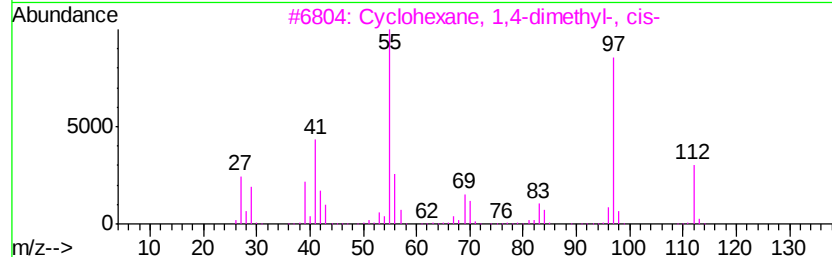
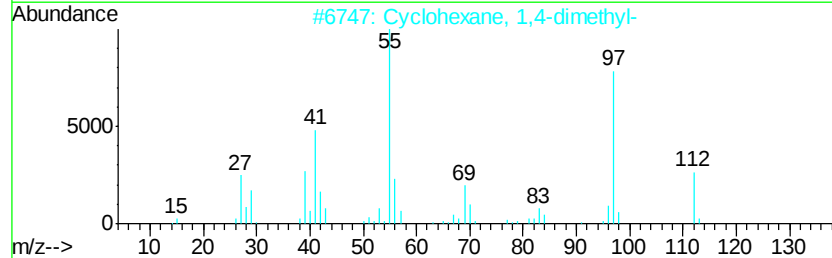
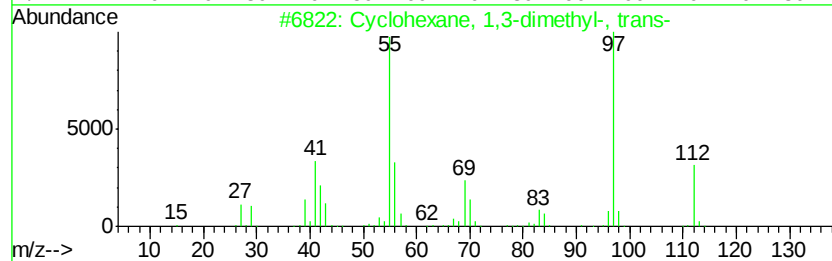
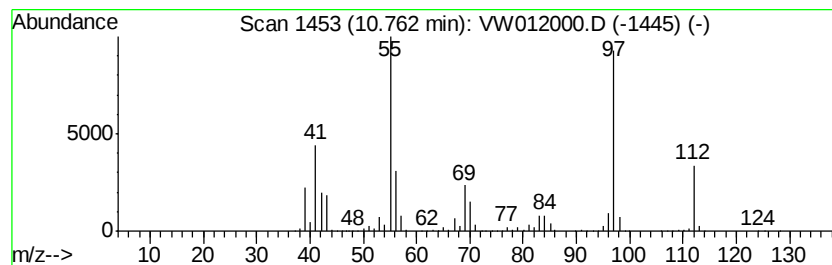
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Cyclohexane, 1,3-dimethyl-,... Concentration Rank 7

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 10.76 | 103.61 ug/l | 2388050 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1,3-dimethyl-, trans-  | 112 | C8H16   | 002207-03-6 | 97   |
| 2    |    | Cyclohexane, 1,4-dimethyl-          | 112 | C8H16   | 000589-90-2 | 97   |
| 3    |    | Cyclohexane, 1,4-dimethyl-, cis-    | 112 | C8H16   | 000624-29-3 | 94   |
| 4    |    | Cyclohexane, 1,4-dimethyl-, trans-  | 112 | C8H16   | 002207-04-7 | 94   |
| 5    |    | Cyclohexane, 1,2-dimethyl- (cis/... | 112 | C8H16   | 000583-57-3 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081919\  
Data File : VW012000.D  
Acq On : 19 Aug 2019 20:02  
Operator : SY/VA  
Sample : K4391-05  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 27 Sample Multiplier: 1

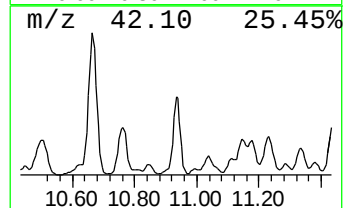
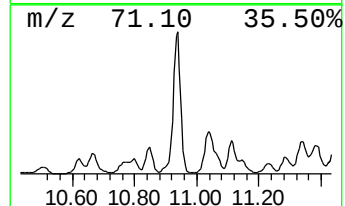
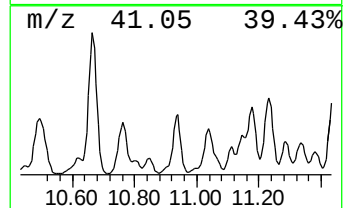
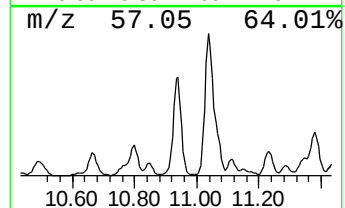
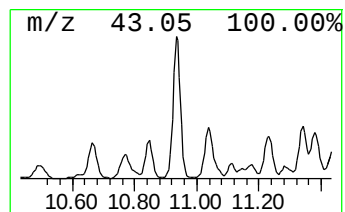
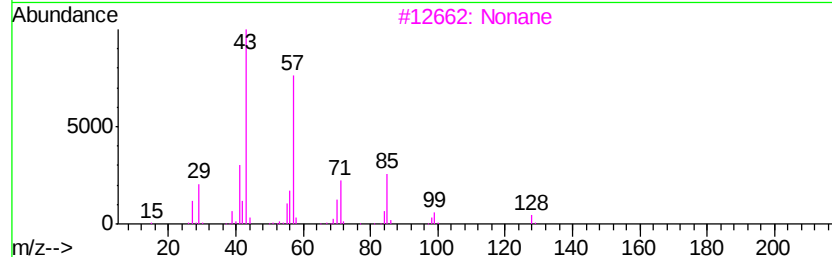
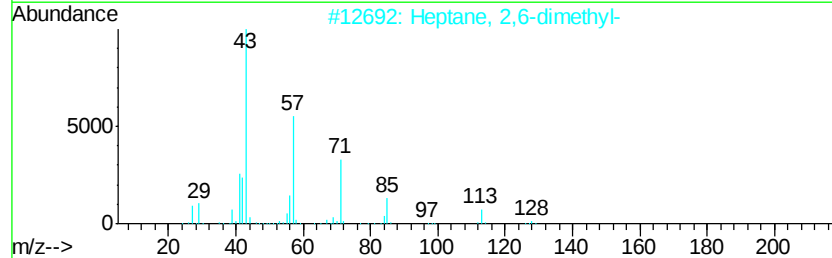
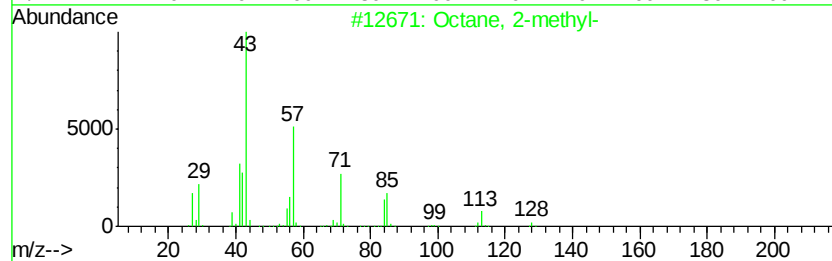
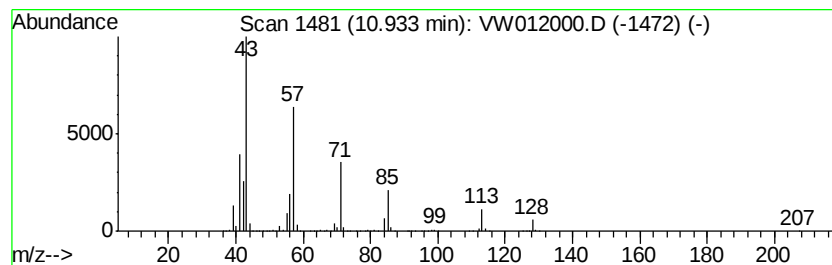
Instrument :  
MSVOA\_W  
ClientSampleId :  
W-WALL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260

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

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Peak Number 6 Octane, 2-methyl- Concentration Rank 8

| R.T.    | EstConc                | Area         | Relative to ISTD | R.T.      |
|---------|------------------------|--------------|------------------|-----------|
| 10.93   | 91.28 ug/l             | 2103940      | Chlorobenzene-d5 | 11.63     |
| Hit# of | 5                      | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Octane, 2-methyl-      | 128 C9H20    | 003221-61-2      | 78        |
| 2       | Heptane, 2,6-dimethyl- | 128 C9H20    | 001072-05-5      | 78        |
| 3       | Nonane                 | 128 C9H20    | 000111-84-2      | 64        |
| 4       | Ether, hexyl pentyl    | 172 C11H24O  | 032357-83-8      | 59        |
| 5       | Heptane, 2,4-dimethyl- | 128 C9H20    | 002213-23-2      | 59        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081919\  
Data File : VW012000.D  
Acq On : 19 Aug 2019 20:02  
Operator : SY/VA  
Sample : K4391-05  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
W-WALL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260

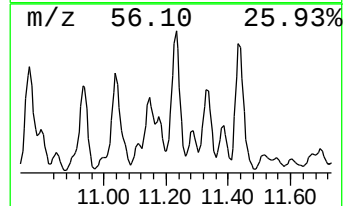
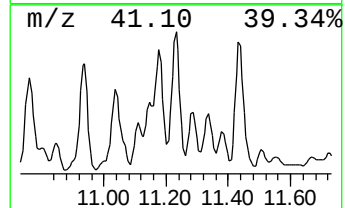
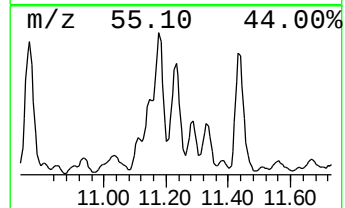
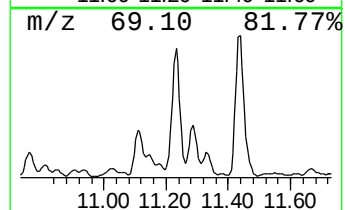
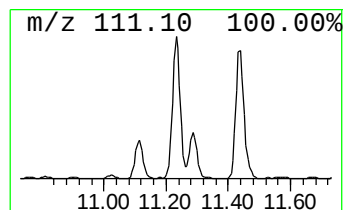
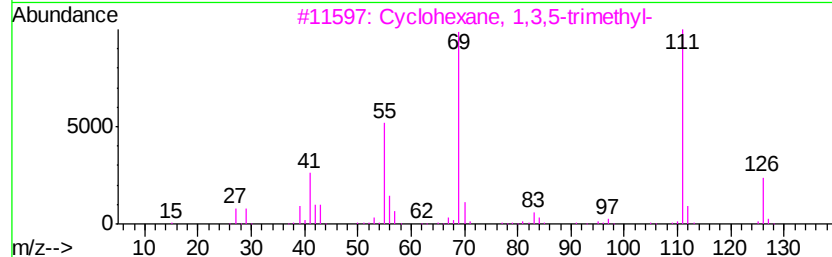
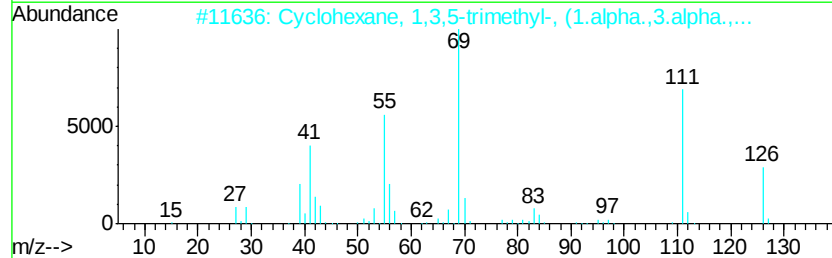
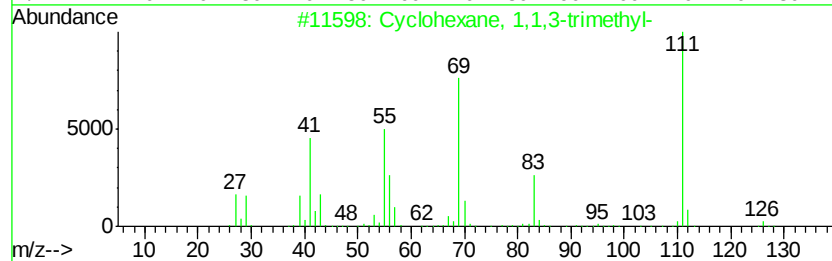
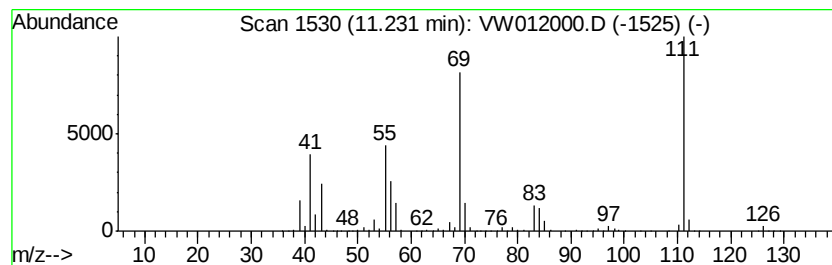
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 5

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 11.23 | 123.30 ug/l | 2841860 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1,1,3-trimethyl-       | 126 | C9H18   | 003073-66-3 | 87   |
| 2    |    | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18   | 001795-26-2 | 53   |
| 3    |    | Cyclohexane, 1,3,5-trimethyl-       | 126 | C9H18   | 001839-63-0 | 50   |
| 4    |    | trans-2-Methyl-3-octene             | 126 | C9H18   | 052937-36-7 | 47   |
| 5    |    | 1-Hexene, 3,3-dimethyl-             | 112 | C8H16   | 003404-77-1 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081919\  
Data File : VW012000.D  
Acq On : 19 Aug 2019 20:02  
Operator : SY/VA  
Sample : K4391-05  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 27 Sample Multiplier: 1

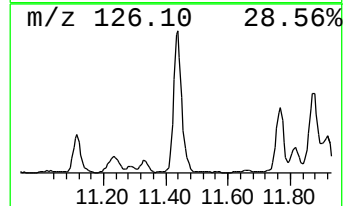
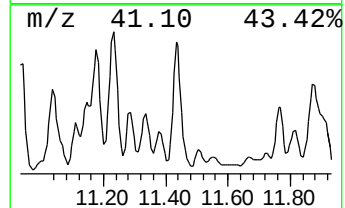
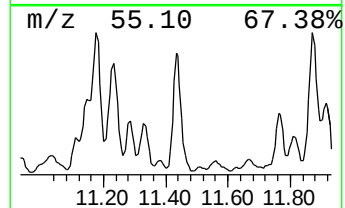
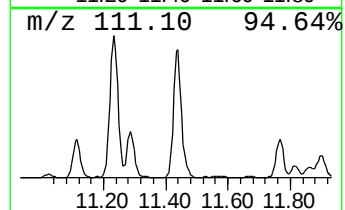
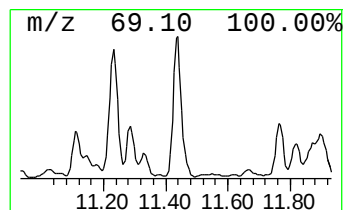
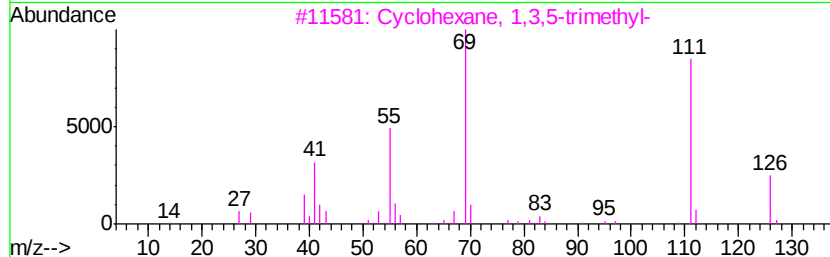
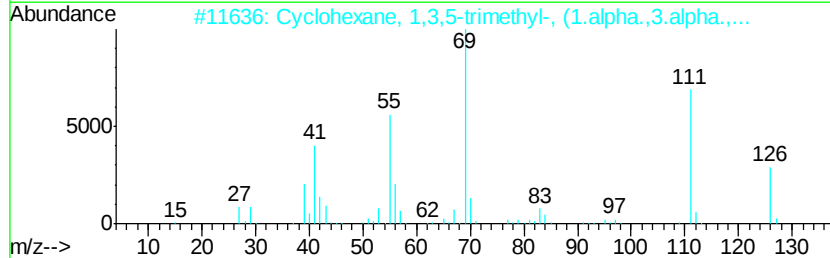
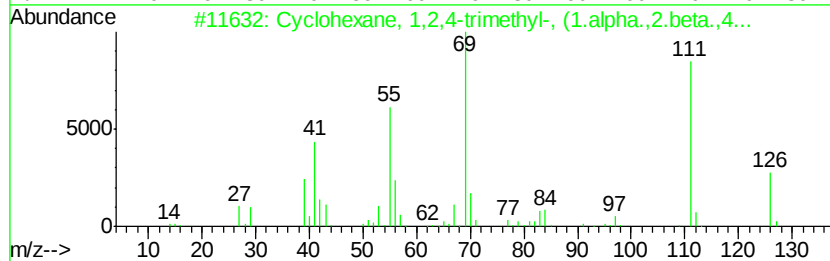
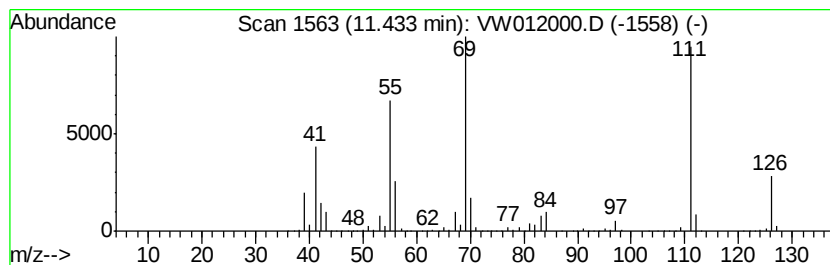
Instrument :  
MSVOA\_W  
ClientSampleId :  
W-WALL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 8 Cyclohexane, 1,2,4-trimethy... Concentration Rank 4

| R.T.    | EstConc     | Area                                 | Relative to ISTD | R.T.    |             |      |
|---------|-------------|--------------------------------------|------------------|---------|-------------|------|
| 11.43   | 124.40 ug/l | 2867210                              | Chlorobenzene-d5 | 11.63   |             |      |
| Hit# of | 5           | Tentative ID                         | MW               | MolForm | CAS#        | Qual |
| 1       |             | Cyclohexane, 1,2,4-trimethyl-, (...) | 126              | C9H18   | 007667-60-9 | 95   |
| 2       |             | Cyclohexane, 1,3,5-trimethyl-, (...) | 126              | C9H18   | 001795-26-2 | 94   |
| 3       |             | Cyclohexane, 1,3,5-trimethyl-        | 126              | C9H18   | 001839-63-0 | 90   |
| 4       |             | Cyclohexane, 1,3,5-trimethyl-, (...) | 126              | C9H18   | 001795-27-3 | 90   |
| 5       |             | Cyclohexane, 1,2,4-trimethyl-        | 126              | C9H18   | 002234-75-5 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081919\  
Data File : VW012000.D  
Acq On : 19 Aug 2019 20:02  
Operator : SY/VA  
Sample : K4391-05  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
W-WALL

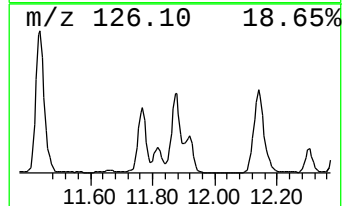
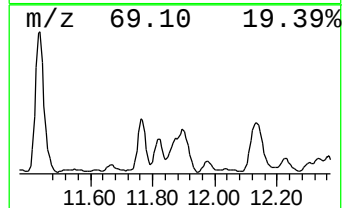
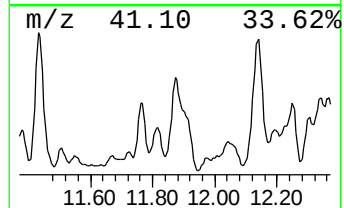
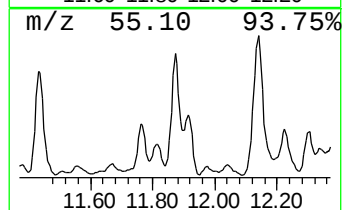
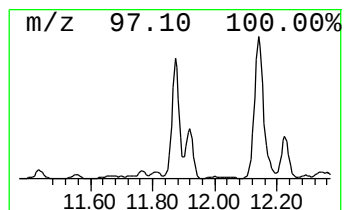
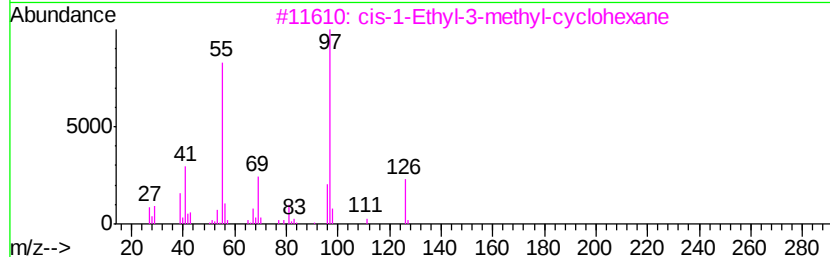
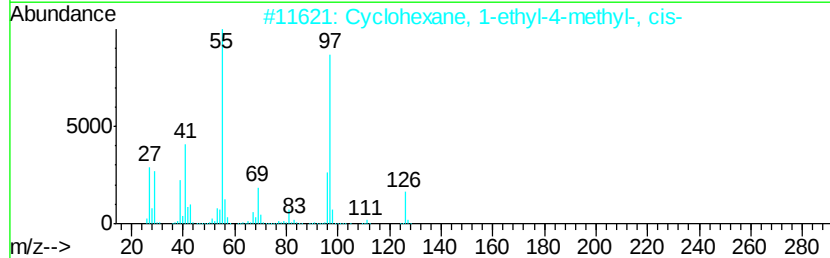
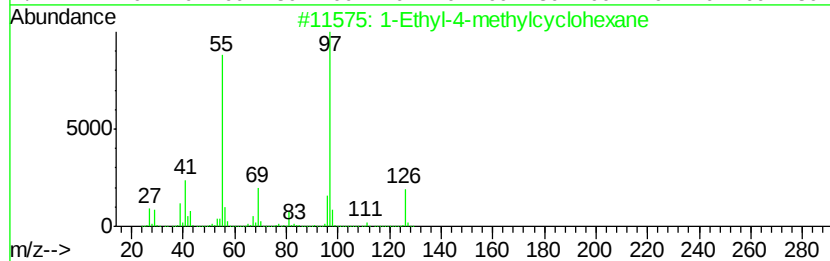
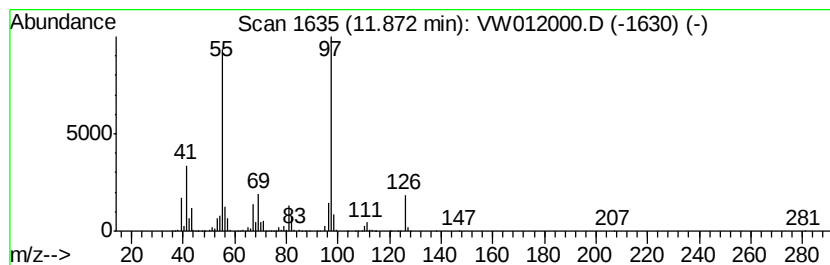
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Quant Title : SW846 8260

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

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Peak Number 9 1-Ethyl-4-methylcyclohexane Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 11.87 | 152.18 ug/l | 3507450 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18   | 003728-56-1 | 94   |
| 2    |    | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 004926-78-7 | 90   |
| 3    |    | cis-1-Ethyl-3-methylcyclohexane     | 126 | C9H18   | 019489-10-2 | 90   |
| 4    |    | Cyclohexane, 1-ethyl-2-methyl-      | 126 | C9H18   | 003728-54-9 | 90   |
| 5    |    | 1-Ethyl-3-methylcyclohexane (c,t)   | 126 | C9H18   | 003728-55-0 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081919\  
Data File : VW012000.D  
Acq On : 19 Aug 2019 20:02  
Operator : SY/VA  
Sample : K4391-05  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
W-WALL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260

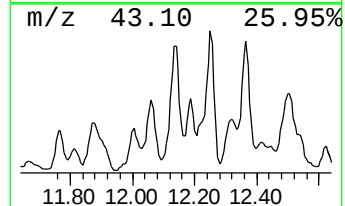
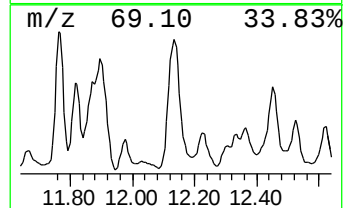
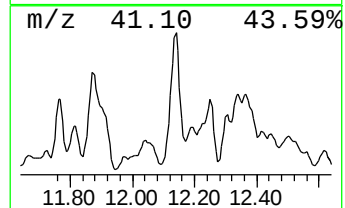
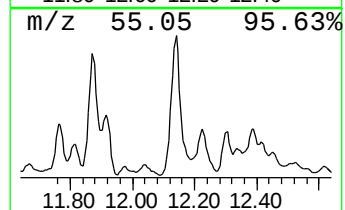
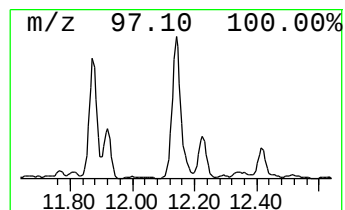
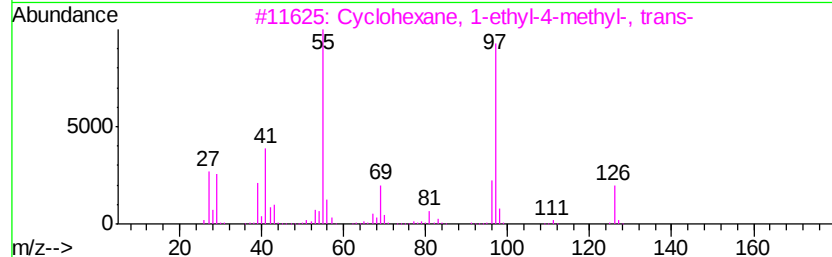
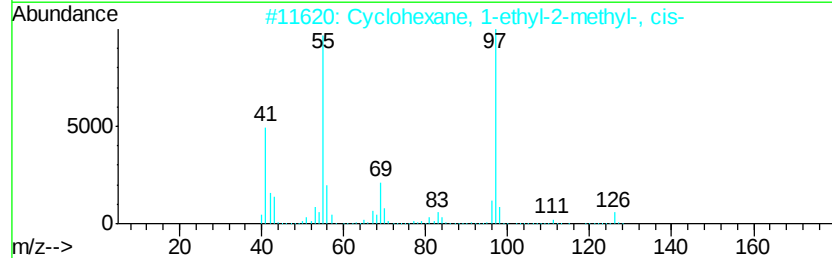
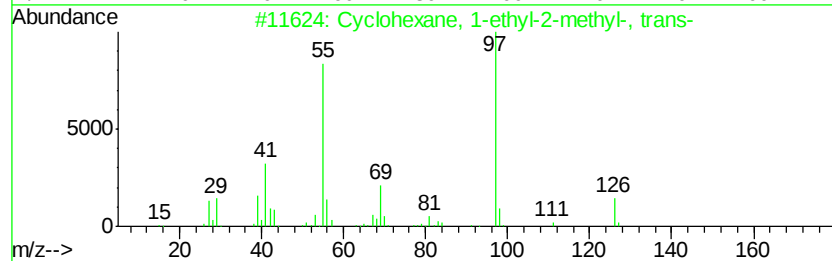
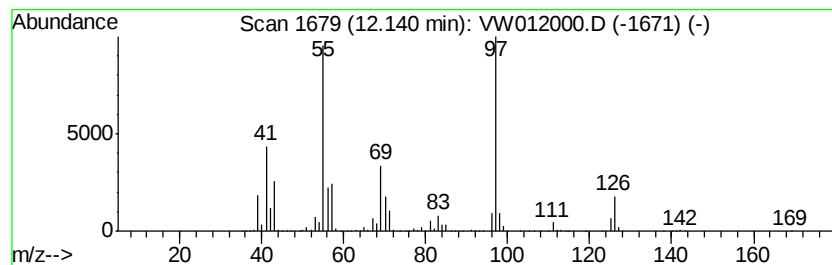
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Cyclohexane, 1-ethyl-2-meth... Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 12.14 | 139.40 ug/l | 3212900 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18   | 004923-78-8 | 76   |
| 2    |    | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18   | 004923-77-7 | 72   |
| 3    |    | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18   | 006236-88-0 | 64   |
| 4    |    | cis-1-Ethyl-3-methyl-cyclohexane    | 126 | C9H18   | 019489-10-2 | 64   |
| 5    |    | Cyclohexane, 1,3-dimethyl-          | 112 | C8H16   | 000591-21-9 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW081919\  
Data File : VW012000.D  
Acq On : 19 Aug 2019 20:02  
Operator : SY/VA  
Sample : K4391-05  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
W-WALL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Cyclopentane, 1,2... | 9.61  | 88.6    | ug/l  | 1910000  | 2                     | 8.84  | 1077610 | 50.0 |
| Cyclopentane, 1,2... | 9.75  | 87.4    | ug/l  | 1883100  | 2                     | 8.84  | 1077610 | 50.0 |
| Cyclohexane, 1,1-... | 10.49 | 118.4   | ug/l  | 2729360  | 3                     | 11.63 | 1152440 | 50.0 |
| Cyclohexane, 1,2-... | 10.66 | 224.2   | ug/l  | 5166480  | 3                     | 11.63 | 1152440 | 50.0 |
| Cyclohexane, 1,3-... | 10.76 | 103.6   | ug/l  | 2388050  | 3                     | 11.63 | 1152440 | 50.0 |
| Octane, 2-methyl-    | 10.93 | 91.3    | ug/l  | 2103940  | 3                     | 11.63 | 1152440 | 50.0 |
| Cyclohexane, 1,1,... | 11.23 | 123.3   | ug/l  | 2841860  | 3                     | 11.63 | 1152440 | 50.0 |
| Cyclohexane, 1,2,... | 11.43 | 124.4   | ug/l  | 2867210  | 3                     | 11.63 | 1152440 | 50.0 |
| 1-Ethyl-4-methylc... | 11.87 | 152.2   | ug/l  | 3507450  | 3                     | 11.63 | 1152440 | 50.0 |
| Cyclohexane, 1-et... | 12.14 | 139.4   | ug/l  | 3212900  | 3                     | 11.63 | 1152440 | 50.0 |