

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092618\  
 Data File : VX004754.D  
 Acq On : 27 Sep 2018 05:32  
 Operator : JC/MD  
 Sample : J5020-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T3-MW-1-9.0-091918

## 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\_X\METHOD\82X092618W.M  
 Title : SW846 8260

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 1.294    | 16         | 23       | 26        | rBV2  | 38759       | 88328      | 5.35%        | 0.530%     |
| 2      | 1.788    | 99         | 104      | 114       | rVB   | 72390       | 113549     | 6.88%        | 0.681%     |
| 3      | 1.995    | 134        | 138      | 148       | rVB   | 35156       | 55754      | 3.38%        | 0.335%     |
| 4      | 2.263    | 178        | 182      | 188       | rVB2  | 14934       | 25341      | 1.54%        | 0.152%     |
| 5      | 2.446    | 207        | 212      | 216       | rBV   | 38029       | 58792      | 3.56%        | 0.353%     |
| 6      | 2.617    | 235        | 240      | 247       | rVB   | 39897       | 70789      | 4.29%        | 0.425%     |
| 7      | 2.836    | 269        | 276      | 280       | rBV4  | 31422       | 71164      | 4.31%        | 0.427%     |
| 8      | 2.885    | 280        | 284      | 288       | rVV   | 64948       | 137891     | 8.35%        | 0.827%     |
| 9      | 2.928    | 288        | 291      | 303       | rVB2  | 68851       | 138644     | 8.40%        | 0.832%     |
| 10     | 3.166    | 322        | 330      | 345       | rVB2  | 68892       | 193648     | 11.73%       | 1.162%     |
| 11     | 3.513    | 381        | 387      | 404       | rVB3  | 23052       | 63636      | 3.86%        | 0.382%     |
| 12     | 3.812    | 428        | 436      | 444       | rBV   | 22019       | 52287      | 3.17%        | 0.314%     |
| 13     | 3.915    | 444        | 453      | 459       | rVV2  | 18124       | 48248      | 2.92%        | 0.289%     |
| 14     | 3.989    | 459        | 465      | 474       | rVV2  | 17397       | 46819      | 2.84%        | 0.281%     |
| 15     | 4.080    | 474        | 480      | 489       | rVV4  | 11954       | 36999      | 2.24%        | 0.222%     |
| 16     | 4.190    | 491        | 498      | 508       | rVV2  | 13399       | 36623      | 2.22%        | 0.220%     |
| 17     | 4.300    | 508        | 516      | 522       | rVV2  | 8874        | 25878      | 1.57%        | 0.155%     |
| 18     | 4.397    | 522        | 532      | 545       | rVV   | 208720      | 610450     | 36.99%       | 3.663%     |
| 19     | 4.519    | 545        | 552      | 564       | rVB6  | 8348        | 28863      | 1.75%        | 0.173%     |
| 20     | 5.293    | 674        | 679      | 692       | rVB5  | 9384        | 31421      | 1.90%        | 0.189%     |
| 21     | 5.507    | 700        | 714      | 720       | rBV   | 206409      | 575902     | 34.89%       | 3.455%     |
| 22     | 5.574    | 720        | 725      | 732       | rVV4  | 70256       | 217126     | 13.16%       | 1.303%     |
| 23     | 5.665    | 732        | 740      | 773       | rVB2  | 255096      | 930928     | 56.41%       | 5.586%     |
| 24     | 5.927    | 774        | 783      | 795       | rVB5  | 26001       | 83122      | 5.04%        | 0.499%     |
| 25     | 6.067    | 795        | 806      | 815       | rBV   | 207511      | 537895     | 32.59%       | 3.227%     |
| 26     | 6.256    | 827        | 837      | 839       | rBV3  | 28592       | 66762      | 4.05%        | 0.401%     |
| 27     | 6.348    | 848        | 852      | 862       | rVB3  | 50866       | 135603     | 8.22%        | 0.814%     |
| 28     | 6.452    | 862        | 869      | 886       | rVB2  | 31645       | 94098      | 5.70%        | 0.565%     |
| 29     | 6.860    | 925        | 936      | 945       | rBV   | 410841      | 992513     | 60.14%       | 5.955%     |
| 30     | 7.256    | 993        | 1001     | 1009      | rBV3  | 11385       | 26357      | 1.60%        | 0.158%     |
| 31     | 7.457    | 1023       | 1034     | 1047      | rBV5  | 125618      | 357718     | 21.67%       | 2.146%     |
| 32     | 7.732    | 1073       | 1079     | 1089      | rVB   | 25005       | 50608      | 3.07%        | 0.304%     |
| 33     | 7.951    | 1113       | 1115     | 1123      | rVB2  | 17289       | 30590      | 1.85%        | 0.184%     |
| 34     | 8.055    | 1123       | 1132     | 1143      | rVB2  | 30544       | 73323      | 4.44%        | 0.440%     |

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 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 8.177  | 1143 | 1152 | 1154 | rBV  | 45627   | 80628   | 4.89%   | 0.484% |
| 36 | 8.213  | 1154 | 1158 | 1163 | rVB  | 52213   | 89081   | 5.40%   | 0.534% |
| 37 | 8.506  | 1200 | 1206 | 1212 | rBV2 | 13243   | 26963   | 1.63%   | 0.162% |
| 38 | 8.579  | 1212 | 1218 | 1226 | rVV2 | 37540   | 76608   | 4.64%   | 0.460% |
| 39 | 8.671  | 1226 | 1233 | 1235 | rVV4 | 22883   | 46318   | 2.81%   | 0.278% |
| 40 | 8.713  | 1235 | 1240 | 1257 | rVV  | 943154  | 1650417 | 100.00% | 9.903% |
| 41 | 8.835  | 1257 | 1260 | 1264 | rVV4 | 13768   | 25086   | 1.52%   | 0.151% |
| 42 | 8.915  | 1264 | 1273 | 1280 | rVV2 | 31622   | 69216   | 4.19%   | 0.415% |
| 43 | 9.036  | 1288 | 1293 | 1300 | rVV3 | 17822   | 39087   | 2.37%   | 0.235% |
| 44 | 9.165  | 1310 | 1314 | 1319 | rVV  | 19364   | 32225   | 1.95%   | 0.193% |
| 45 | 9.225  | 1319 | 1324 | 1334 | rVB  | 23654   | 43749   | 2.65%   | 0.262% |
| 46 | 9.518  | 1363 | 1372 | 1376 | rBV5 | 10085   | 24864   | 1.51%   | 0.149% |
| 47 | 9.573  | 1376 | 1381 | 1386 | rVV6 | 13365   | 27262   | 1.65%   | 0.164% |
| 48 | 9.628  | 1386 | 1390 | 1393 | rVV2 | 20217   | 32190   | 1.95%   | 0.193% |
| 49 | 9.677  | 1393 | 1398 | 1402 | rVV3 | 13502   | 28763   | 1.74%   | 0.173% |
| 50 | 10.116 | 1459 | 1470 | 1481 | rBV  | 862195  | 1260730 | 76.39%  | 7.564% |
| 51 | 10.207 | 1481 | 1485 | 1488 | rVV2 | 24428   | 42556   | 2.58%   | 0.255% |
| 52 | 10.359 | 1503 | 1510 | 1516 | rVB3 | 47425   | 104140  | 6.31%   | 0.625% |
| 53 | 10.512 | 1532 | 1535 | 1543 | rVB  | 33458   | 48282   | 2.93%   | 0.290% |
| 54 | 10.646 | 1546 | 1557 | 1564 | rBV4 | 63201   | 178004  | 10.79%  | 1.068% |
| 55 | 10.713 | 1564 | 1568 | 1575 | rVB2 | 20461   | 34548   | 2.09%   | 0.207% |
| 56 | 10.835 | 1576 | 1588 | 1596 | rBV2 | 118833  | 207809  | 12.59%  | 1.247% |
| 57 | 10.914 | 1596 | 1601 | 1608 | rBV4 | 54919   | 100791  | 6.11%   | 0.605% |
| 58 | 11.018 | 1613 | 1618 | 1622 | rBV  | 94119   | 120634  | 7.31%   | 0.724% |
| 59 | 11.140 | 1632 | 1638 | 1642 | rBV  | 915276  | 1154617 | 69.96%  | 6.928% |
| 60 | 11.182 | 1642 | 1645 | 1649 | rVB  | 55422   | 72176   | 4.37%   | 0.433% |
| 61 | 11.280 | 1657 | 1661 | 1666 | rVB2 | 53458   | 73928   | 4.48%   | 0.444% |
| 62 | 11.359 | 1666 | 1674 | 1684 | rVB  | 162641  | 222421  | 13.48%  | 1.335% |
| 63 | 11.451 | 1684 | 1689 | 1693 | rBV3 | 26976   | 45334   | 2.75%   | 0.272% |
| 64 | 11.670 | 1719 | 1725 | 1732 | rBV2 | 64850   | 103517  | 6.27%   | 0.621% |
| 65 | 11.768 | 1732 | 1741 | 1744 | rBV4 | 18443   | 31626   | 1.92%   | 0.190% |
| 66 | 11.920 | 1759 | 1766 | 1768 | rBV2 | 25272   | 46203   | 2.80%   | 0.277% |
| 67 | 11.944 | 1768 | 1770 | 1775 | rVB  | 36705   | 43478   | 2.63%   | 0.261% |
| 68 | 12.079 | 1787 | 1792 | 1799 | rBV  | 1169339 | 1419500 | 86.01%  | 8.517% |
| 69 | 12.231 | 1813 | 1817 | 1822 | rVB  | 26620   | 36709   | 2.22%   | 0.220% |
| 70 | 12.298 | 1822 | 1828 | 1835 | rBV  | 465435  | 595977  | 36.11%  | 3.576% |
| 71 | 12.371 | 1835 | 1840 | 1849 | rVB2 | 73212   | 137224  | 8.31%   | 0.823% |

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 Peak Location: TOP

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Title : SW846 8260

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 12.463 | 1849 | 1855 | 1860 | rBV  | 40400  | 55084  | 3.34%  | 0.331% |
| 73  | 12.518 | 1860 | 1864 | 1870 | rVB3 | 22163  | 35297  | 2.14%  | 0.212% |
| 74  | 12.670 | 1884 | 1889 | 1892 | rVV  | 218711 | 255447 | 15.48% | 1.533% |
| 75  | 12.700 | 1892 | 1894 | 1899 | rVV2 | 59682  | 83538  | 5.06%  | 0.501% |
| 76  | 12.755 | 1899 | 1903 | 1910 | rVB2 | 159730 | 274160 | 16.61% | 1.645% |
| 77  | 12.896 | 1923 | 1926 | 1931 | rVB  | 41062  | 56716  | 3.44%  | 0.340% |
| 78  | 12.975 | 1931 | 1939 | 1944 | rBV  | 114281 | 163131 | 9.88%  | 0.979% |
| 79  | 13.024 | 1944 | 1947 | 1953 | rVB3 | 15728  | 25819  | 1.56%  | 0.155% |
| 80  | 13.085 | 1953 | 1957 | 1962 | rBV3 | 20049  | 34702  | 2.10%  | 0.208% |
| 81  | 13.152 | 1964 | 1968 | 1971 | rBV  | 18260  | 23085  | 1.40%  | 0.139% |
| 82  | 13.194 | 1971 | 1975 | 1977 | rBV2 | 28259  | 32426  | 1.96%  | 0.195% |
| 83  | 13.225 | 1977 | 1980 | 1983 | rVB  | 34653  | 36270  | 2.20%  | 0.218% |
| 84  | 13.347 | 1995 | 2000 | 2006 | rVB2 | 230425 | 318178 | 19.28% | 1.909% |
| 85  | 13.481 | 2019 | 2022 | 2031 | rVB4 | 15722  | 24845  | 1.51%  | 0.149% |
| 86  | 13.597 | 2038 | 2041 | 2044 | rVV2 | 20983  | 31700  | 1.92%  | 0.190% |
| 87  | 13.639 | 2044 | 2048 | 2052 | rVV3 | 41155  | 66727  | 4.04%  | 0.400% |
| 88  | 13.700 | 2052 | 2058 | 2059 | rVV2 | 23329  | 42438  | 2.57%  | 0.255% |
| 89  | 13.719 | 2059 | 2061 | 2069 | rVB3 | 35373  | 56738  | 3.44%  | 0.340% |
| 90  | 13.834 | 2078 | 2080 | 2088 | rVB2 | 25426  | 45947  | 2.78%  | 0.276% |
| 91  | 13.914 | 2088 | 2093 | 2098 | rBV2 | 22397  | 32479  | 1.97%  | 0.195% |
| 92  | 13.987 | 2098 | 2105 | 2109 | rBV2 | 25716  | 36535  | 2.21%  | 0.219% |
| 93  | 14.218 | 2136 | 2143 | 2148 | rVV2 | 15806  | 44870  | 2.72%  | 0.269% |
| 94  | 14.286 | 2148 | 2154 | 2159 | rVB3 | 26036  | 56487  | 3.42%  | 0.339% |
| 95  | 14.542 | 2189 | 2196 | 2206 | rBV2 | 31043  | 50043  | 3.03%  | 0.300% |
| 96  | 14.694 | 2209 | 2221 | 2225 | rBV2 | 34782  | 64815  | 3.93%  | 0.389% |
| 97  | 14.840 | 2240 | 2245 | 2250 | rBV  | 125085 | 155951 | 9.45%  | 0.936% |
| 98  | 15.547 | 2355 | 2361 | 2366 | rBV2 | 13119  | 23032  | 1.40%  | 0.138% |
| 99  | 15.688 | 2377 | 2384 | 2387 | rBV  | 19667  | 32651  | 1.98%  | 0.196% |
| 100 | 16.419 | 2497 | 2504 | 2512 | rVB3 | 12952  | 27078  | 1.64%  | 0.162% |

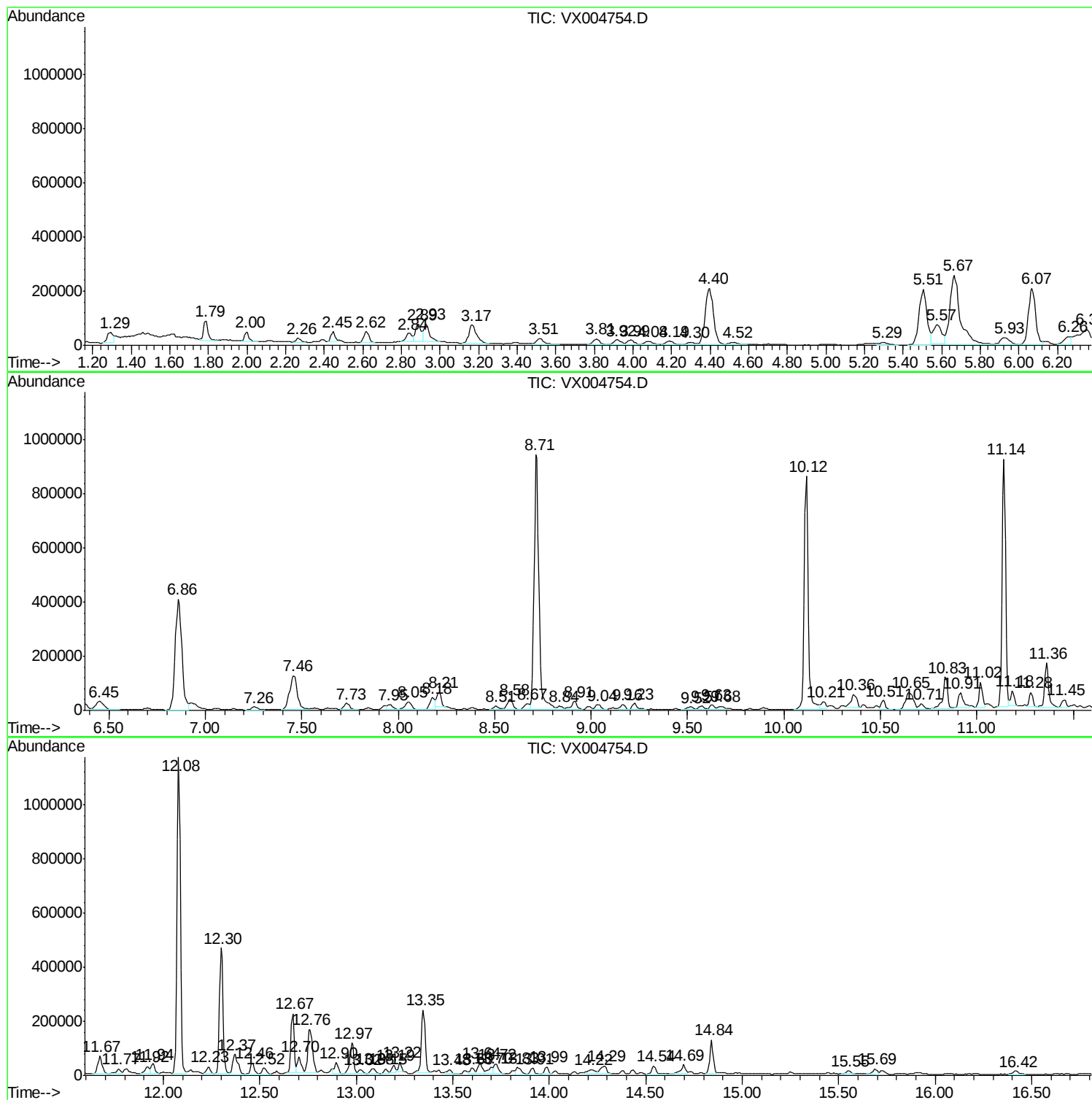
Sum of corrected areas: 16666519

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
Quant Title : SW846 8260

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



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T3-MW-1-9.0-091918

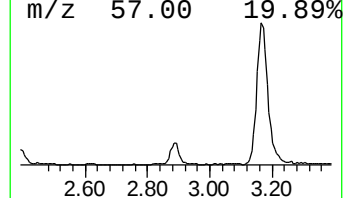
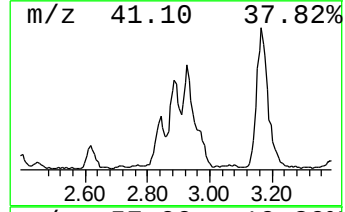
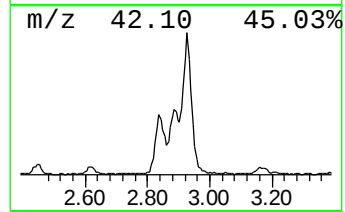
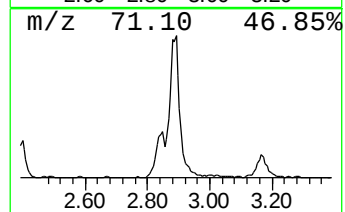
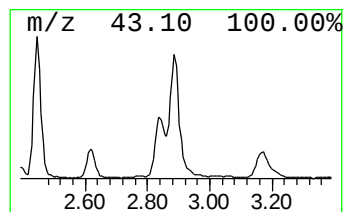
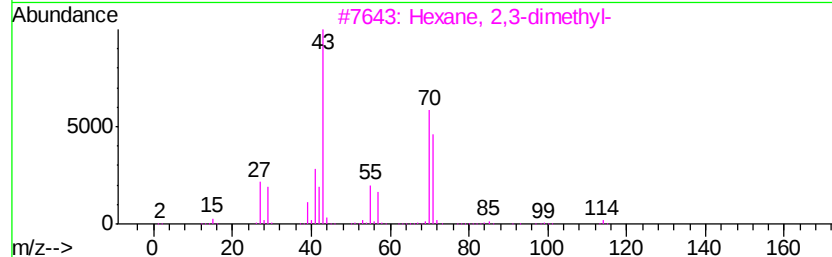
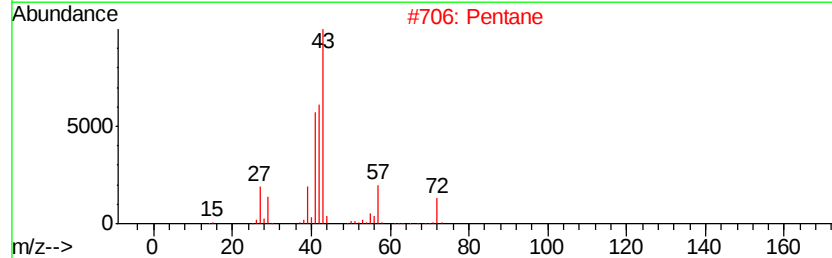
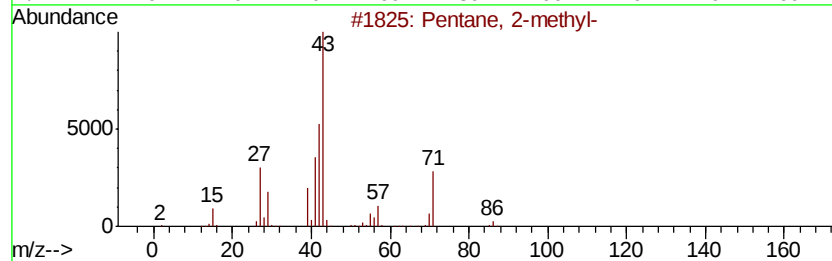
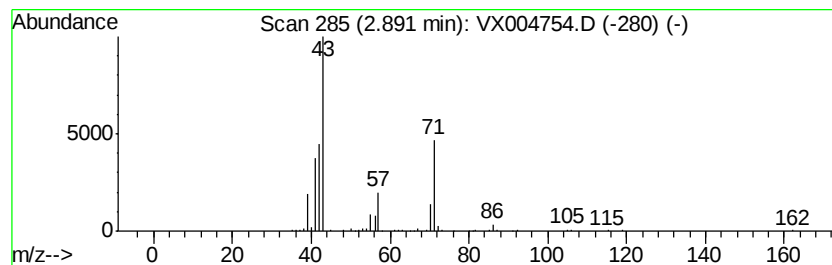
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
Quant Title : SW846 8260

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

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Peak Number 1 Pentane, 2-methyl- Concentration Rank 8

| R.T. | EstConc   | Area   | Relative to ISTD   | R.T. |
|------|-----------|--------|--------------------|------|
| 2.89 | 7.41 ug/l | 137891 | Pentafluorobenzene | 5.67 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2-methyl-    | 86  | C6H14   | 000107-83-5 | 72   |
| 2    |    | Pentane               | 72  | C5H12   | 000109-66-0 | 43   |
| 3    |    | Hexane, 2,3-dimethyl- | 114 | C8H18   | 000584-94-1 | 37   |
| 4    |    | Hexane, 3,3-dimethyl- | 114 | C8H18   | 000563-16-6 | 37   |
| 5    |    | Octane                | 114 | C8H18   | 000111-65-9 | 17   |



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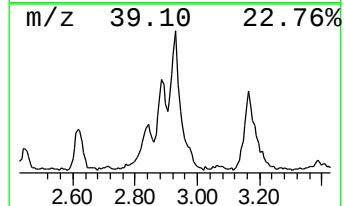
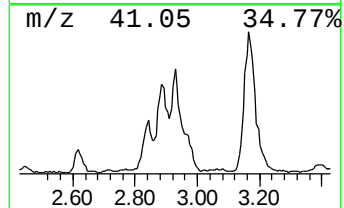
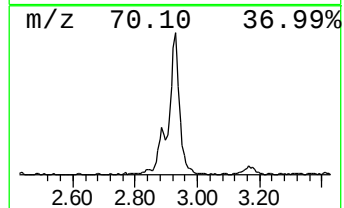
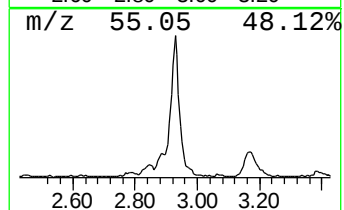
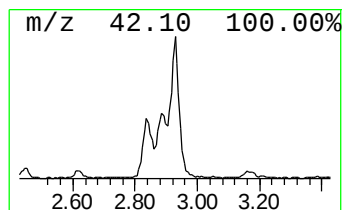
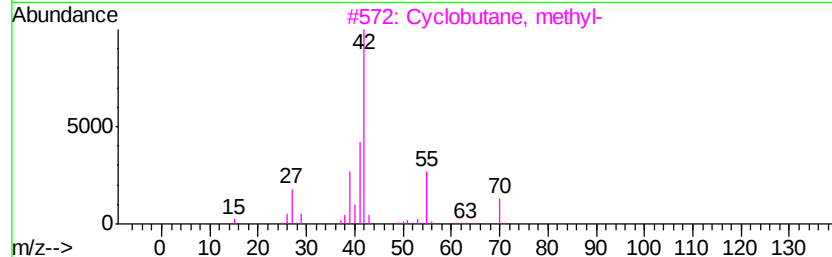
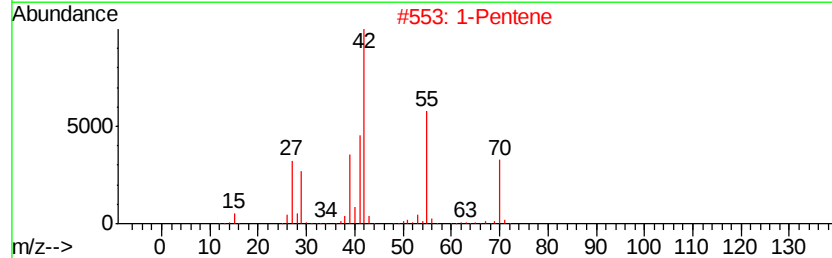
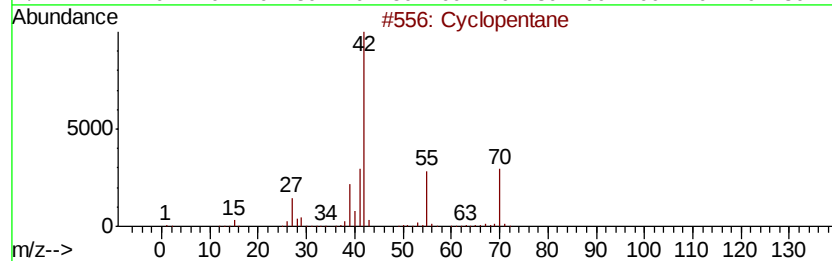
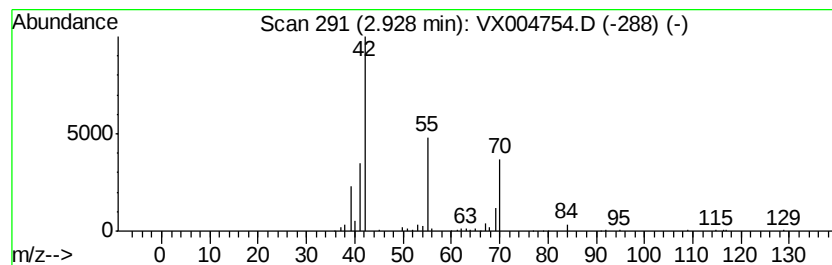
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
Quant Title : SW846 8260

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

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Peak Number 2 Cyclopentane Concentration Rank 7

| R.T. | EstConc   | Area   | Relative to ISTD   | R.T. |
|------|-----------|--------|--------------------|------|
| 2.93 | 7.45 ug/l | 138644 | Pentafluorobenzene | 5.67 |

| Hit# | of | 5 | Tentative ID         | MW | MolForm | CAS#        | Qual |
|------|----|---|----------------------|----|---------|-------------|------|
| 1    |    |   | Cyclopentane         | 70 | C5H10   | 000287-92-3 | 64   |
| 2    |    |   | 1-Pentene            | 70 | C5H10   | 000109-67-1 | 59   |
| 3    |    |   | Cyclobutane, methyl- | 70 | C5H10   | 000598-61-8 | 50   |
| 4    |    |   | 3-Buten-1-ol         | 72 | C4H8O   | 000627-27-0 | 28   |
| 5    |    |   | Cyclobutanone        | 70 | C4H6O   | 001191-95-3 | 9    |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX092618\  
Data File : VX004754.D  
Acq On : 27 Sep 2018 05:32  
Operator : JC/MD  
Sample : J5020-04  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
T3-MW-1-9.0-091918

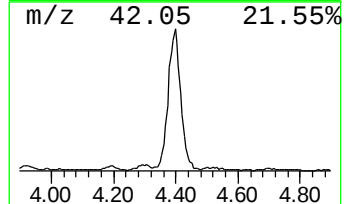
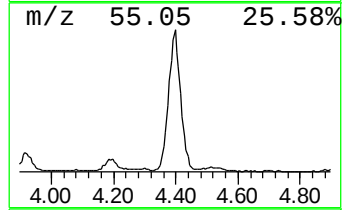
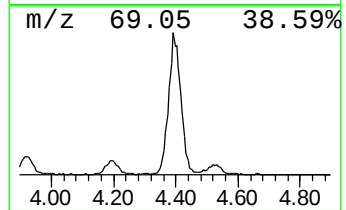
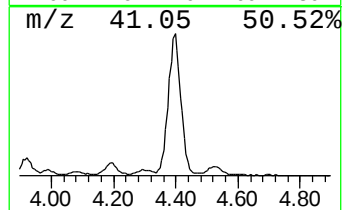
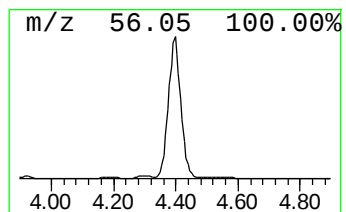
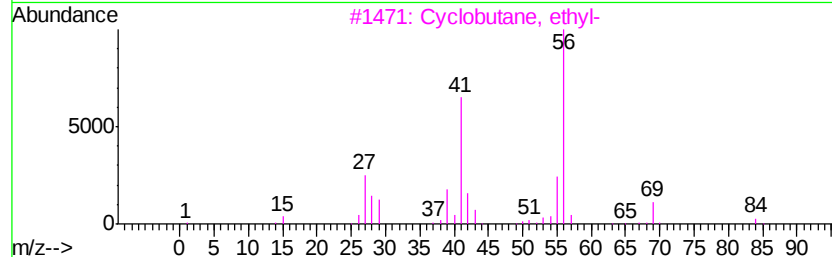
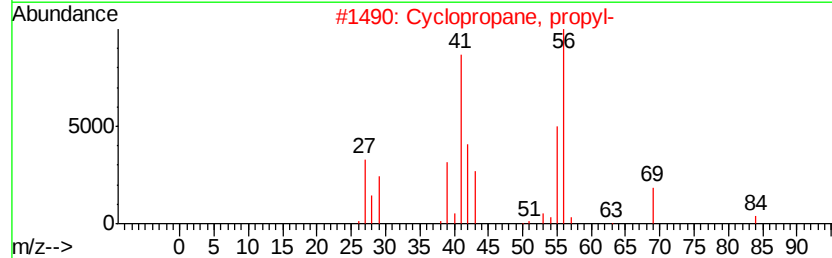
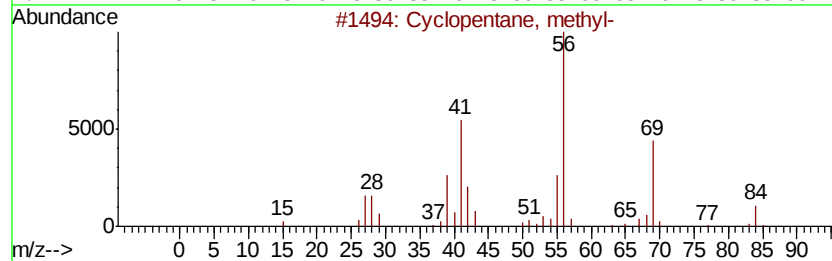
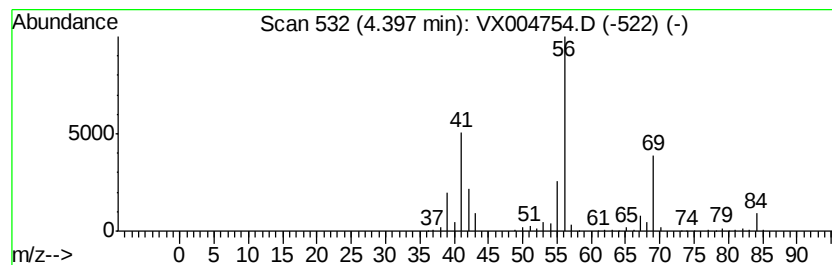
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 Cyclopentane, methyl- Concentration Rank 1

| R.T. | EstConc    | Area   | Relative to ISTD   | R.T. |
|------|------------|--------|--------------------|------|
| 4.40 | 32.79 ug/l | 610450 | Pentafluorobenzene | 5.67 |

| Hit# | of | Tentative ID            | MW | MolForm | CAS#        | Qual |
|------|----|-------------------------|----|---------|-------------|------|
| 1    | 5  | Cyclopentane, methyl-   | 84 | C6H12   | 000096-37-7 | 91   |
| 2    |    | Cyclopropane, propyl-   | 84 | C6H12   | 002415-72-7 | 72   |
| 3    |    | Cyclobutane, ethyl-     | 84 | C6H12   | 004806-61-5 | 72   |
| 4    |    | Cyclohexane             | 84 | C6H12   | 000110-82-7 | 56   |
| 5    |    | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4  | 004076-36-2 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX092618\  
Data File : VX004754.D  
Acq On : 27 Sep 2018 05:32  
Operator : JC/MD  
Sample : J5020-04  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
T3-MW-1-9.0-091918

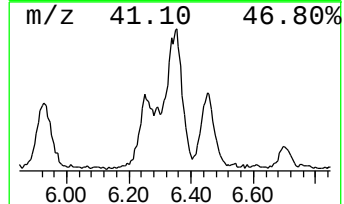
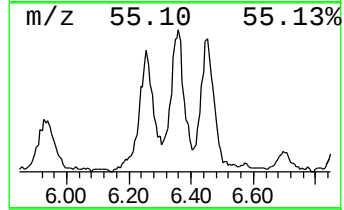
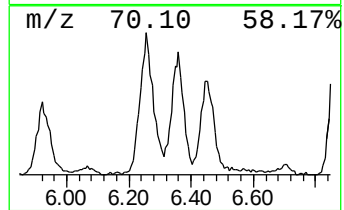
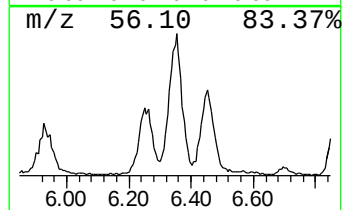
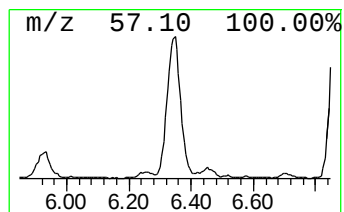
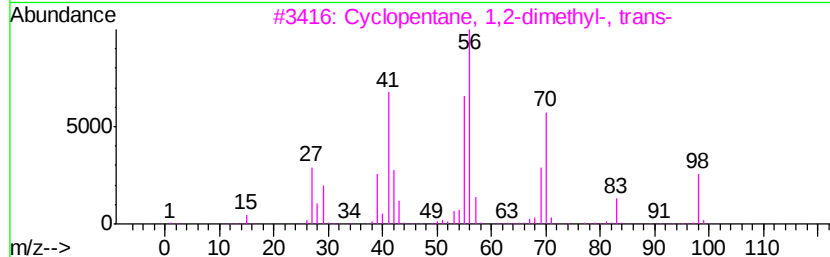
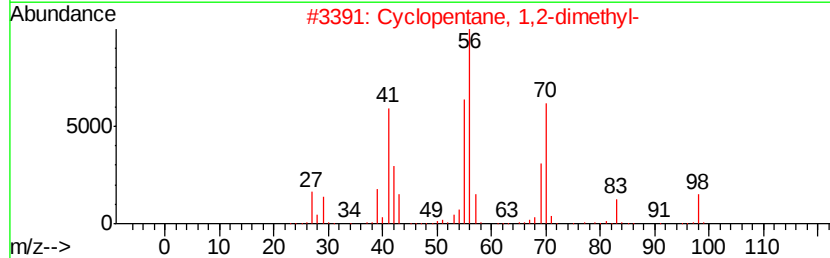
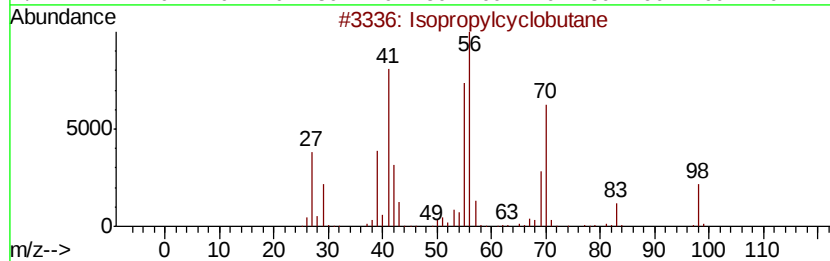
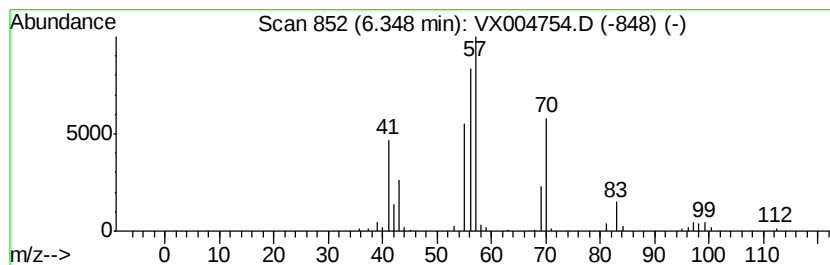
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 4 Isopropylcyclobutane Concentration Rank 10

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 6.35 | 6.83 ug/l | 135603 | 1,4-Difluorobenzene | 6.86 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Isopropylcvclobutane                | 98  | C7H14   | 000872-56-0 | 64   |
| 2    |    | Cyclopentane, 1,2-dimethyl-         | 98  | C7H14   | 002452-99-5 | 59   |
| 3    |    | Cyclopentane, 1,2-dimethyl-, trans- | 98  | C7H14   | 000822-50-4 | 56   |
| 4    |    | 1-Octanol, 3,7-dimethyl-            | 158 | C10H22O | 000106-21-8 | 50   |
| 5    |    | 1-Octene, 3-methyl-                 | 126 | C9H18   | 013151-08-1 | 47   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092618\  
Data File : VX004754.D  
Acq On : 27 Sep 2018 05:32  
Operator : JC/MD  
Sample : J5020-04  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
T3-MW-1-9.0-091918

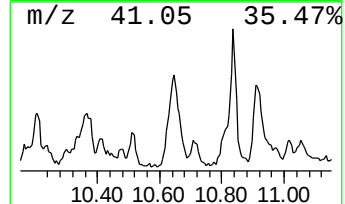
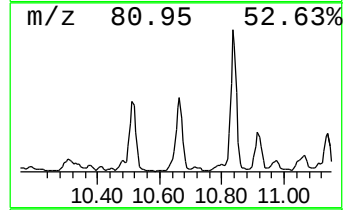
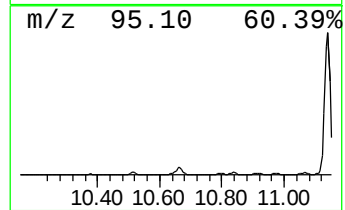
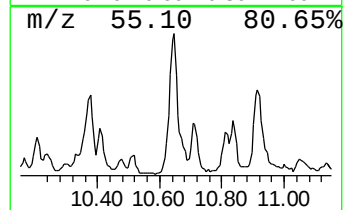
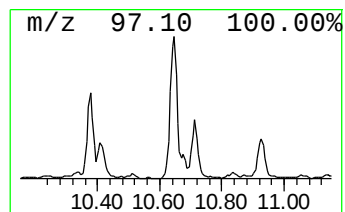
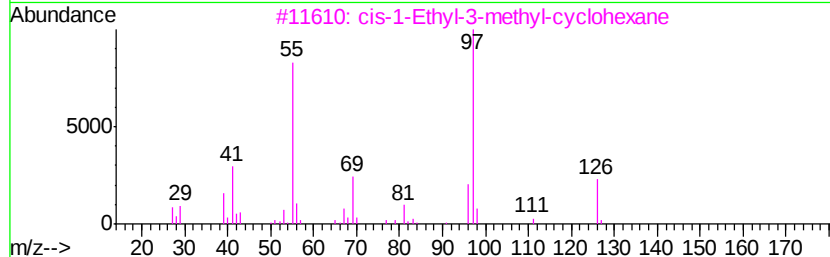
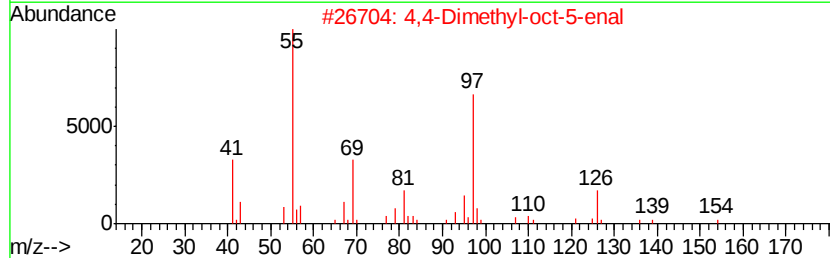
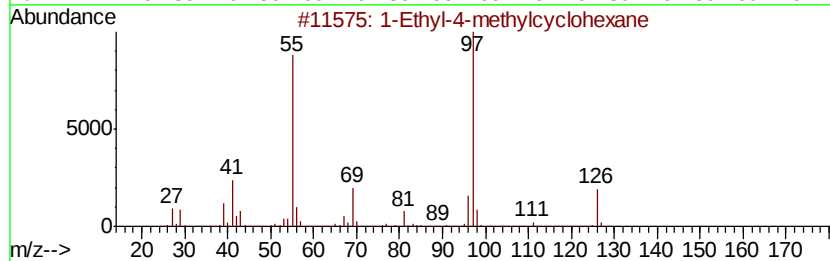
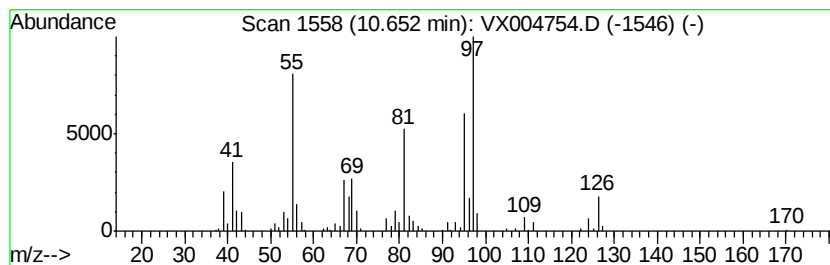
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 5 1-Ethyl-4-methylcyclohexane Concentration Rank 9

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 10.65 | 7.06 ug/l | 178004 | Chlorobenzene-d5 | 10.12 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 1-Ethyl-4-methylcyclohexane         | 126 | C9H18   | 003728-56-1  | 81   |
| 2    |    | 4,4-Dimethyl-oct-5-enal             | 154 | C10H18O | 1000143-73-6 | 78   |
| 3    |    | cis-1-Ethyl-3-methyl-cyclohexane    | 126 | C9H18   | 019489-10-2  | 76   |
| 4    |    | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18   | 004923-78-8  | 76   |
| 5    |    | 1-Ethyl-3-methylcyclohexane (c,t)   | 126 | C9H18   | 003728-55-0  | 76   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX092618\  
Data File : VX004754.D  
Acq On : 27 Sep 2018 05:32  
Operator : JC/MD  
Sample : J5020-04  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
T3-MW-1-9.0-091918

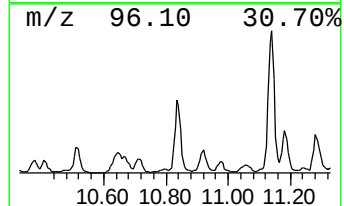
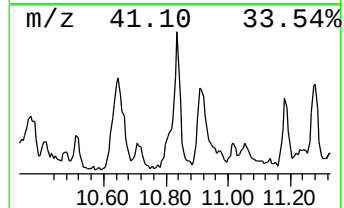
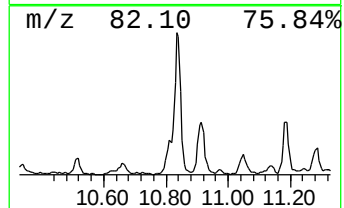
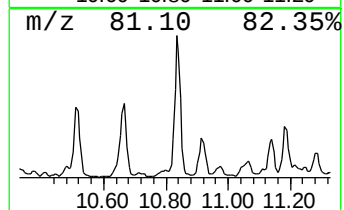
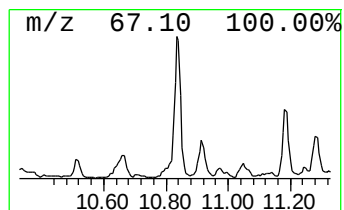
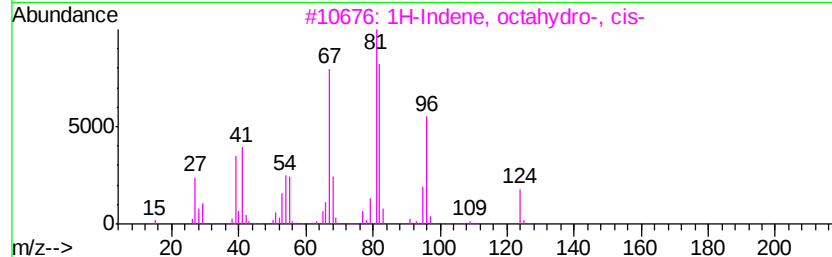
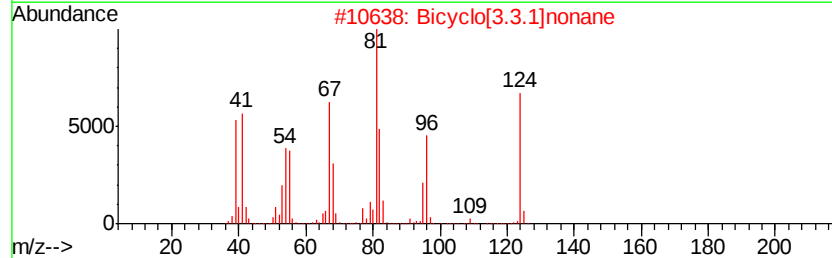
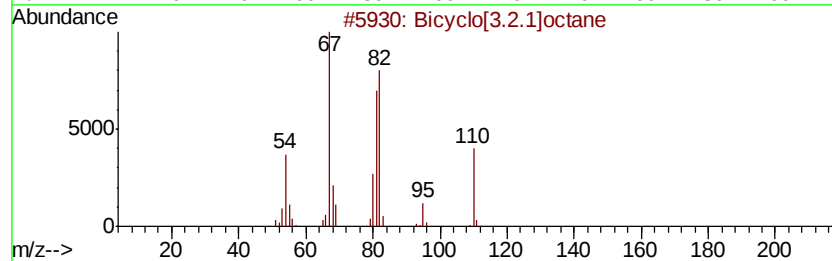
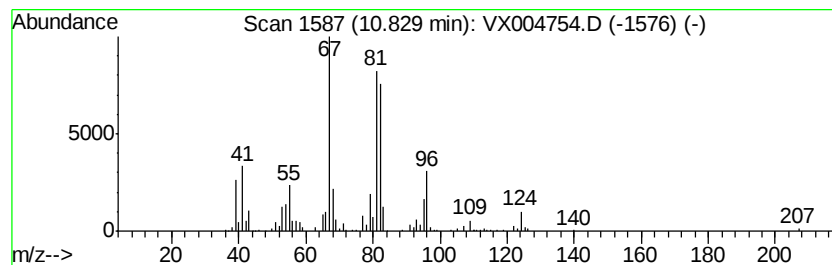
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 6 Bicyclo[3.2.1]octane Concentration Rank 6

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 10.83 | 8.24 ug/l | 207809 | Chlorobenzene-d5 | 10.12 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Bicyclo[3.2.1]octane        | 110 | C8H14   | 006221-55-2 | 64   |
| 2    |    | Bicyclo[3.3.1]nonane        | 124 | C9H16   | 000280-65-9 | 53   |
| 3    |    | 1H-Indene, octahydro-, cis- | 124 | C9H16   | 004551-51-3 | 50   |
| 4    |    | Cyclohexene, 1-propyl-      | 124 | C9H16   | 002539-75-5 | 50   |
| 5    |    | 1,4-Hexadiene               | 82  | C6H10   | 000592-45-0 | 43   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX092618\  
Data File : VX004754.D  
Acq On : 27 Sep 2018 05:32  
Operator : JC/MD  
Sample : J5020-04  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 37 Sample Multiplier: 1

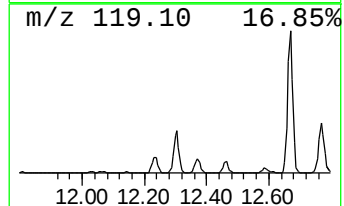
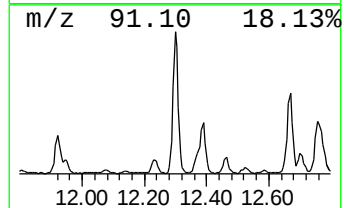
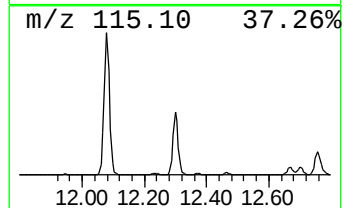
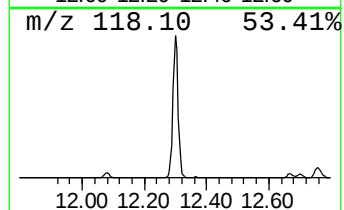
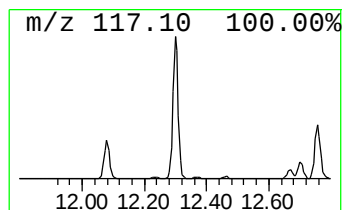
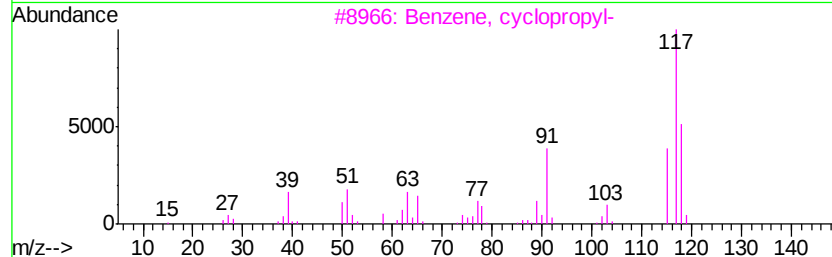
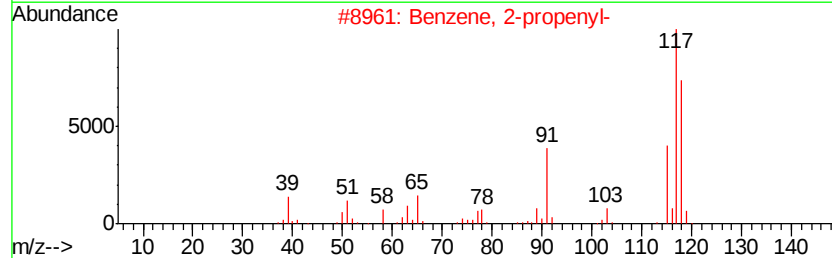
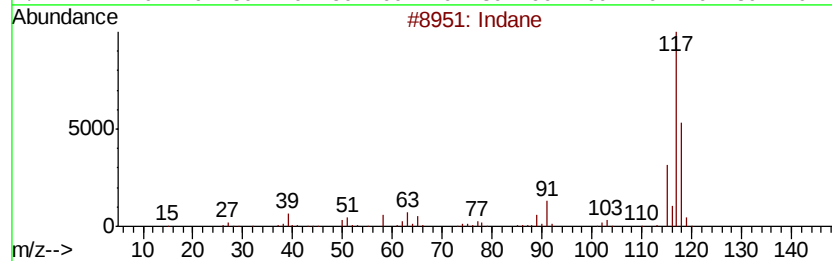
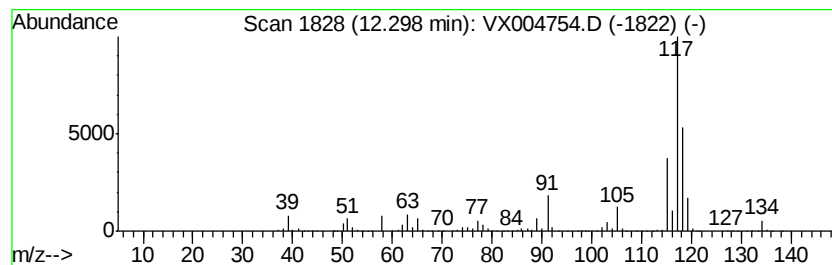
Instrument :  
MSVOA\_X  
ClientSampleId :  
T3-MW-1-9.0-091918

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 7 Indane Concentration Rank 2

| R.T.    | EstConc                      | Area         | Relative to ISTD       | R.T.      |
|---------|------------------------------|--------------|------------------------|-----------|
| 12.30   | 20.99 ug/l                   | 595977       | 1,4-Dichlorobenzene-d4 | 12.08     |
| Hit# of | 5                            | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Indane                       | 118 C9H10    | 000496-11-7            | 94        |
| 2       | Benzene, 2-propenyl-         | 118 C9H10    | 000300-57-2            | 81        |
| 3       | Benzene, cyclopropyl-        | 118 C9H10    | 000873-49-4            | 76        |
| 4       | Deltacyclene                 | 118 C9H10    | 007785-10-6            | 64        |
| 5       | Benzene, 1-ethenyl-2-methyl- | 118 C9H10    | 000611-15-4            | 50        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX092618\  
Data File : VX004754.D  
Acq On : 27 Sep 2018 05:32  
Operator : JC/MD  
Sample : J5020-04  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
T3-MW-1-9.0-091918

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
Quant Title : SW846 8260

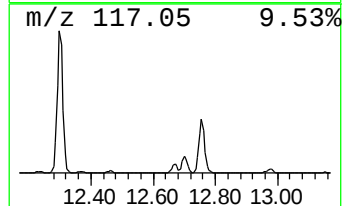
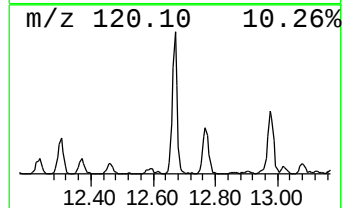
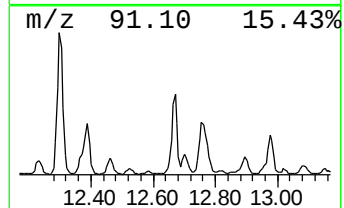
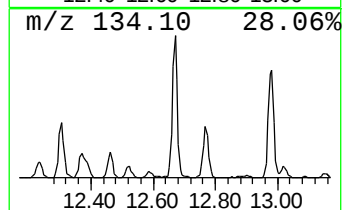
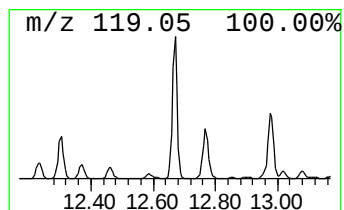
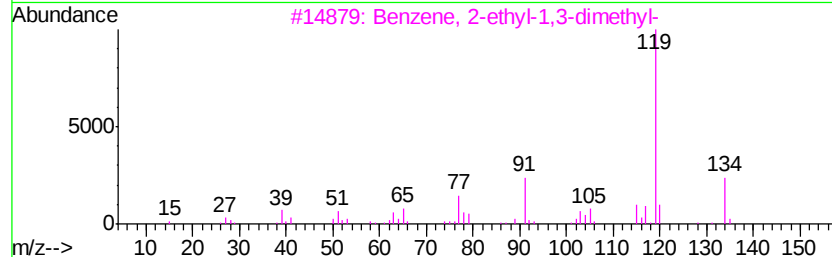
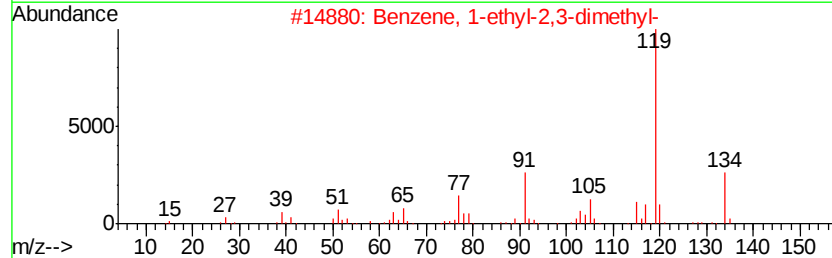
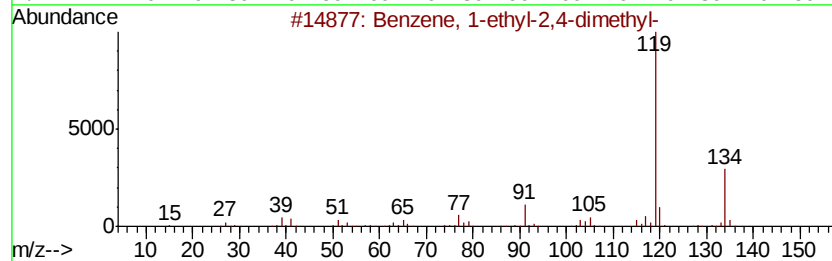
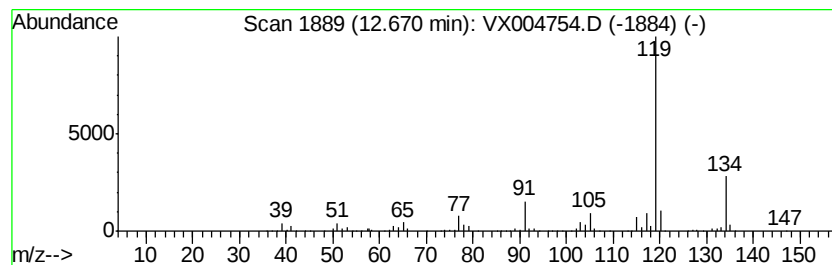
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 5

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 12.67 | 9.00 ug/l | 255447 | 1,4-Dichlorobenzene-d4 | 12.08 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 95   |
| 2    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 95   |
| 3    |    | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 95   |
| 4    |    | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 95   |
| 5    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 95   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX092618\  
Data File : VX004754.D  
Acq On : 27 Sep 2018 05:32  
Operator : JC/MD  
Sample : J5020-04  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 37 Sample Multiplier: 1

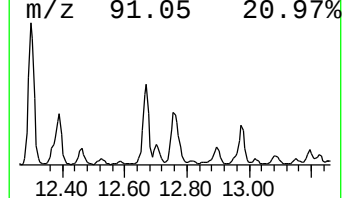
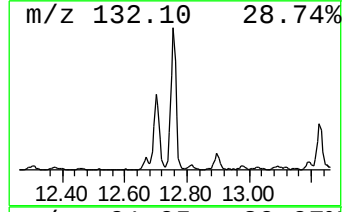
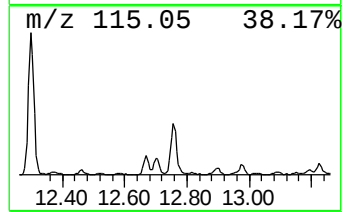
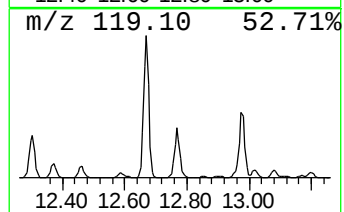
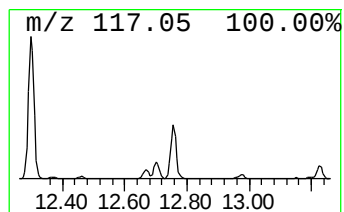
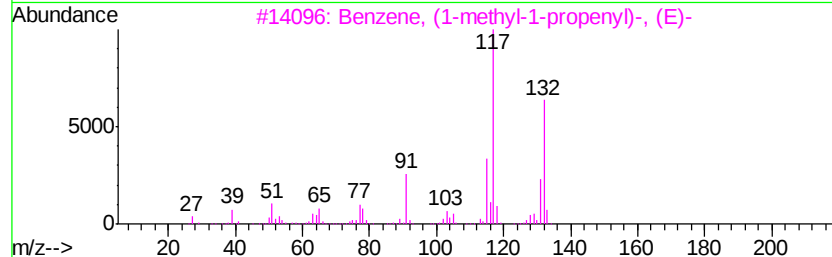
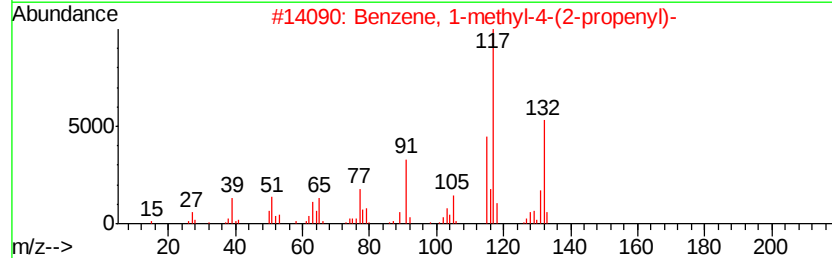
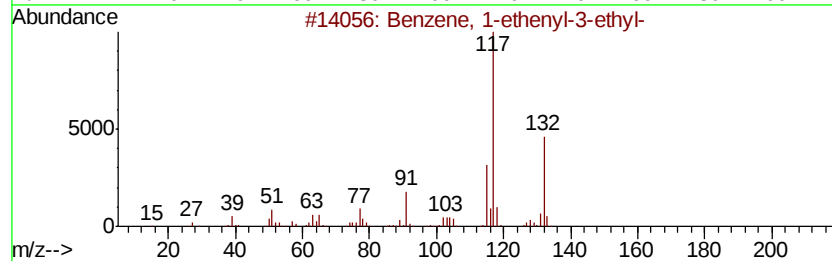
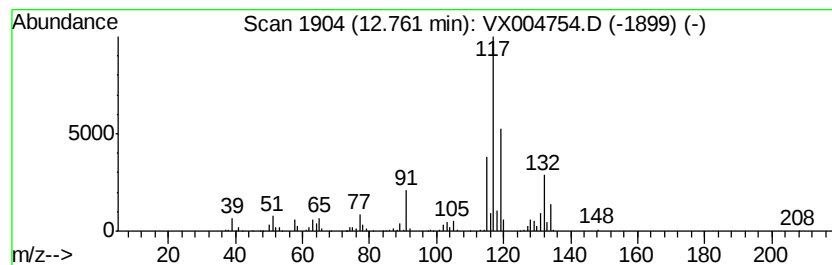
Instrument :  
MSVOA\_X  
ClientSampleId :  
T3-MW-1-9.0-091918

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
Quant Title : SW846 8260

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

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Peak Number 9 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 4

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 12.76   | 9.66 ug/l                           | 274160       | 1,4-Dichlorobenzene-d4 | 12.08     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Benzene, 1-ethenyl-3-ethyl-         | 132 C10H12   | 007525-62-4            | 87        |
| 2       | Benzene, 1-methyl-4-(2-propenyl)-   | 132 C10H12   | 003333-13-9            | 83        |
| 3       | Benzene, (1-methyl-1-propenyl)-,... | 132 C10H12   | 000768-00-3            | 83        |
| 4       | Indan, 1-methyl-                    | 132 C10H12   | 000767-58-8            | 81        |
| 5       | Benzene, (2-methylcyclopropyl)-     | 132 C10H12   | 1000327-39-0           | 81        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX092618\  
Data File : VX004754.D  
Acq On : 27 Sep 2018 05:32  
Operator : JC/MD  
Sample : J5020-04  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
T3-MW-1-9.0-091918

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
Quant Title : SW846 8260

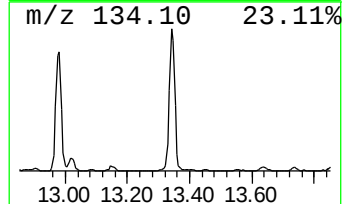
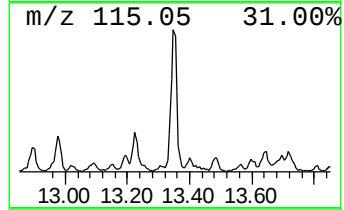
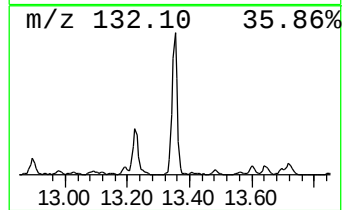
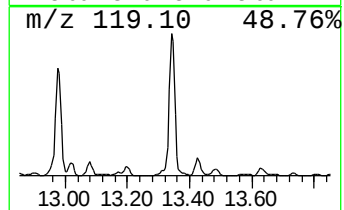
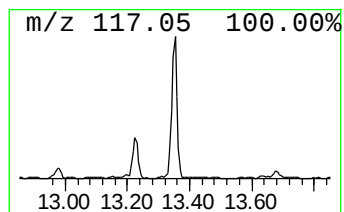
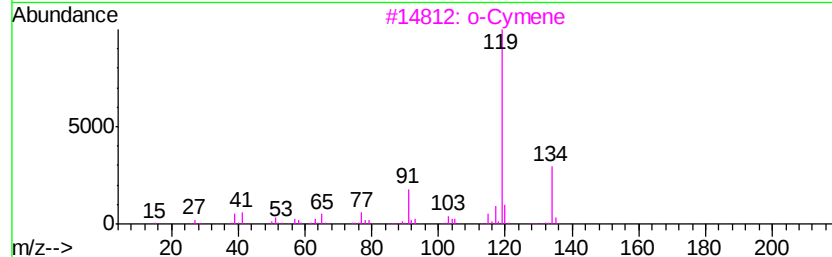
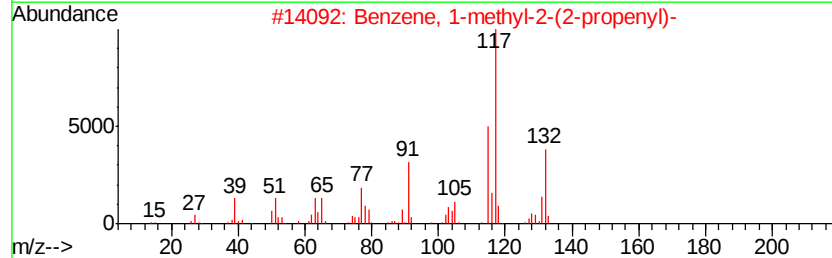
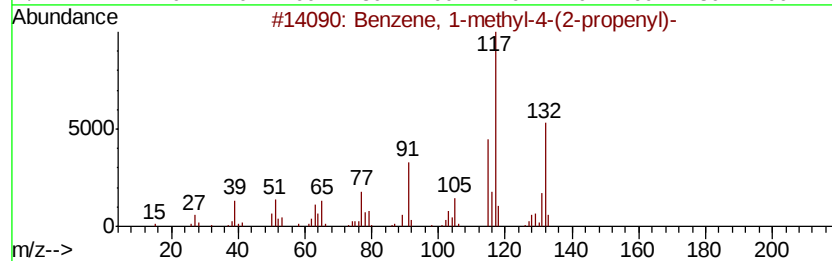
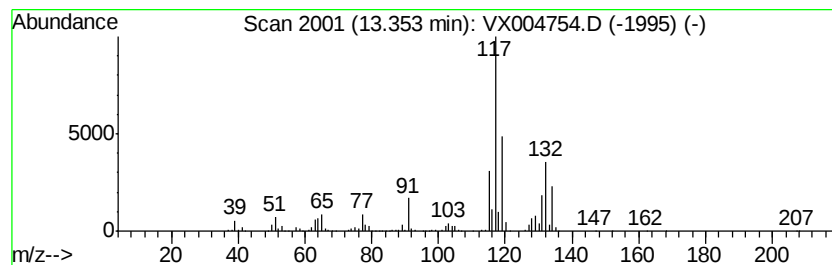
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Benzene, 1-methyl-4-(2-prop... Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.35 | 11.21 ug/l | 318178 | 1,4-Dichlorobenzene-d4 | 12.08 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12  | 003333-13-9 | 64   |
| 2    |    | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8 | 64   |
| 3    |    | o-Cymene                          | 134 | C10H14  | 000527-84-4 | 55   |
| 4    |    | Benzene, 2-butenyl-               | 132 | C10H12  | 001560-06-1 | 50   |
| 5    |    | 1H-Indene, 2,3-dihydro-4-methyl-  | 132 | C10H12  | 000824-22-6 | 50   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX092618\  
Data File : VX004754.D  
Acq On : 27 Sep 2018 05:32  
Operator : JC/MD  
Sample : J5020-04  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
T3-MW-1-9.0-091918

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.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 |
| Pentane, 2-methyl-   | 2.89  | 7.4     | ug/l  | 137891   | 1                     | 5.67  | 930928  | 50.0 |
| Cyclopentane         | 2.93  | 7.5     | ug/l  | 138644   | 1                     | 5.67  | 930928  | 50.0 |
| Cyclopentane, met... | 4.40  | 32.8    | ug/l  | 610450   | 1                     | 5.67  | 930928  | 50.0 |
| Isopropylcyclobutane | 6.35  | 6.8     | ug/l  | 135603   | 2                     | 6.86  | 992513  | 50.0 |
| 1-Ethyl-4-methylc... | 10.65 | 7.1     | ug/l  | 178004   | 3                     | 10.12 | 1260730 | 50.0 |
| Bicyclo[3.2.1]octane | 10.83 | 8.2     | ug/l  | 207809   | 3                     | 10.12 | 1260730 | 50.0 |
| Indane               | 12.30 | 21.0    | ug/l  | 595977   | 4                     | 12.08 | 1419500 | 50.0 |
| Benzene, 1-ethyl-... | 12.67 | 9.0     | ug/l  | 255447   | 4                     | 12.08 | 1419500 | 50.0 |
| Benzene, 1-etheny... | 12.76 | 9.7     | ug/l  | 274160   | 4                     | 12.08 | 1419500 | 50.0 |
| Benzene, 1-methyl... | 13.35 | 11.2    | ug/l  | 318178   | 4                     | 12.08 | 1419500 | 50.0 |