

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022621\  
 Data File : VD068461.D  
 Acq On : 26 Feb 2021 17:25  
 Operator : VA/SY  
 Sample : M1489-03  
 Misc : 3.84G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 40030

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\_D\Method\82D022621S.M  
 Title : SW846 8260

Signal : TIC: VD068461.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.038       | 182           | 190         | 199          | rBV      | 58734          | 126952        | 2.79%           | 0.286%        |
| 2         | 3.409       | 244           | 253         | 266          | rVB3     | 46570          | 115535        | 2.54%           | 0.261%        |
| 3         | 3.562       | 270           | 279         | 297          | rBV3     | 62915          | 190970        | 4.19%           | 0.431%        |
| 4         | 3.885       | 325           | 334         | 346          | rVB3     | 18190          | 50585         | 1.11%           | 0.114%        |
| 5         | 4.156       | 369           | 380         | 392          | rVB5     | 18334          | 69640         | 1.53%           | 0.157%        |
| 6         | 5.020       | 520           | 527         | 541          | rVB4     | 64845          | 227617        | 5.00%           | 0.513%        |
| 7         | 5.497       | 595           | 608         | 621          | rVB3     | 52110          | 174472        | 3.83%           | 0.394%        |
| 8         | 6.003       | 682           | 694         | 706          | rVB3     | 71454          | 222012        | 4.88%           | 0.501%        |
| 9         | 6.932       | 841           | 852         | 860          | rBV4     | 27162          | 87723         | 1.93%           | 0.198%        |
| 10        | 7.026       | 860           | 868         | 879          | rVB2     | 77929          | 221414        | 4.86%           | 0.499%        |
| 11        | 7.726       | 980           | 987         | 998          | rVB4     | 24531          | 65182         | 1.43%           | 0.147%        |
| 12        | 7.920       | 1008          | 1020        | 1024         | rBV2     | 268133         | 656991        | 14.43%          | 1.482%        |
| 13        | 7.979       | 1024          | 1030        | 1039         | rVV2     | 518297         | 1304401       | 28.64%          | 2.942%        |
| 14        | 8.067       | 1039          | 1045        | 1052         | rVV2     | 53365          | 125421        | 2.75%           | 0.283%        |
| 15        | 8.191       | 1056          | 1066        | 1074         | rBV3     | 108144         | 241486        | 5.30%           | 0.545%        |
| 16        | 8.338       | 1080          | 1091        | 1102         | rBV4     | 281568         | 730903        | 16.05%          | 1.649%        |
| 17        | 8.508       | 1102          | 1120        | 1130         | rBV2     | 281623         | 822614        | 18.06%          | 1.855%        |
| 18        | 8.597       | 1130          | 1135        | 1145         | rVB4     | 28584          | 71089         | 1.56%           | 0.160%        |
| 19        | 8.726       | 1147          | 1157        | 1169         | rVB2     | 129837         | 277635        | 6.10%           | 0.626%        |
| 20        | 8.867       | 1171          | 1181        | 1194         | rBV      | 706283         | 1440460       | 31.63%          | 3.249%        |
| 21        | 9.055       | 1200          | 1213        | 1221         | rBV2     | 92743          | 217290        | 4.77%           | 0.490%        |
| 22        | 9.355       | 1250          | 1264        | 1269         | rBV2     | 204943         | 497002        | 10.91%          | 1.121%        |
| 23        | 9.408       | 1269          | 1273        | 1281         | rVB4     | 65348          | 132279        | 2.90%           | 0.298%        |
| 24        | 9.779       | 1328          | 1336        | 1346         | rVB      | 179543         | 359163        | 7.89%           | 0.810%        |
| 25        | 9.914       | 1346          | 1359        | 1365         | rBV3     | 233577         | 525903        | 11.55%          | 1.186%        |
| 26        | 9.979       | 1365          | 1370        | 1383         | rVB3     | 104697         | 258567        | 5.68%           | 0.583%        |
| 27        | 10.114      | 1384          | 1393        | 1406         | rVB2     | 102812         | 248308        | 5.45%           | 0.560%        |
| 28        | 10.232      | 1406          | 1413        | 1415         | rBV3     | 44253          | 79141         | 1.74%           | 0.178%        |
| 29        | 10.267      | 1415          | 1419        | 1425         | rVB      | 88345          | 142284        | 3.12%           | 0.321%        |
| 30        | 10.344      | 1425          | 1432        | 1437         | rBV      | 1120980        | 2090806       | 45.91%          | 4.716%        |
| 31        | 10.402      | 1437          | 1442        | 1450         | rVB      | 2020643        | 3665984       | 80.50%          | 8.268%        |
| 32        | 10.520      | 1456          | 1462        | 1469         | rVB      | 209986         | 394662        | 8.67%           | 0.890%        |
| 33        | 10.591      | 1469          | 1474        | 1479         | rBV2     | 36689          | 61253         | 1.35%           | 0.138%        |
| 34        | 10.685      | 1484          | 1490        | 1495         | rVB2     | 32592          | 57642         | 1.27%           | 0.130%        |
| 35        | 10.779      | 1498          | 1506        | 1513         | rBV4     | 65226          | 159115        | 3.49%           | 0.359%        |
| 36        | 10.861      | 1513          | 1520        | 1527         | rVB4     | 47526          | 114083        | 2.51%           | 0.257%        |

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 Misc : 3.84G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 40030

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\_D\Method\82D022621S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 37 | 10.955 | 1527 | 1536 | 1542 | rBV  | 65582   | 134952  | 2.96%   | 0.304%  |
| 38 | 11.055 | 1549 | 1553 | 1561 | rVB2 | 38939   | 74614   | 1.64%   | 0.168%  |
| 39 | 11.120 | 1561 | 1564 | 1568 | rBV3 | 32161   | 49187   | 1.08%   | 0.111%  |
| 40 | 11.191 | 1568 | 1576 | 1581 | rVV2 | 93516   | 186179  | 4.09%   | 0.420%  |
| 41 | 11.243 | 1581 | 1585 | 1591 | rVB2 | 97119   | 165646  | 3.64%   | 0.374%  |
| 42 | 11.355 | 1598 | 1604 | 1608 | rBV4 | 84887   | 139546  | 3.06%   | 0.315%  |
| 43 | 11.426 | 1608 | 1616 | 1628 | rVB3 | 222697  | 569352  | 12.50%  | 1.284%  |
| 44 | 11.526 | 1628 | 1633 | 1639 | rBV  | 198518  | 320532  | 7.04%   | 0.723%  |
| 45 | 11.643 | 1645 | 1653 | 1663 | rBV  | 923234  | 1633277 | 35.86%  | 3.684%  |
| 46 | 11.743 | 1663 | 1670 | 1679 | rBV  | 598028  | 1072911 | 23.56%  | 2.420%  |
| 47 | 11.849 | 1679 | 1688 | 1699 | rVV2 | 2259938 | 4554051 | 100.00% | 10.271% |
| 48 | 11.932 | 1699 | 1702 | 1707 | rVB3 | 106986  | 167555  | 3.68%   | 0.378%  |
| 49 | 11.996 | 1707 | 1713 | 1719 | rBV5 | 35170   | 79064   | 1.74%   | 0.178%  |
| 50 | 12.079 | 1719 | 1727 | 1732 | rVB4 | 39717   | 77611   | 1.70%   | 0.175%  |
| 51 | 12.179 | 1732 | 1744 | 1752 | rBV  | 1039859 | 2175303 | 47.77%  | 4.906%  |
| 52 | 12.267 | 1752 | 1759 | 1763 | rVB  | 145222  | 239999  | 5.27%   | 0.541%  |
| 53 | 12.361 | 1769 | 1775 | 1776 | rBV4 | 91978   | 162406  | 3.57%   | 0.366%  |
| 54 | 12.390 | 1776 | 1780 | 1789 | rVB4 | 137924  | 307988  | 6.76%   | 0.695%  |
| 55 | 12.479 | 1789 | 1795 | 1799 | rBV2 | 98602   | 185341  | 4.07%   | 0.418%  |
| 56 | 12.555 | 1805 | 1808 | 1811 | rBV2 | 46601   | 56724   | 1.25%   | 0.128%  |
| 57 | 12.585 | 1811 | 1813 | 1815 | rVB  | 65298   | 55016   | 1.21%   | 0.124%  |
| 58 | 12.632 | 1815 | 1821 | 1832 | rVB  | 851387  | 1543110 | 33.88%  | 3.480%  |
| 59 | 12.714 | 1832 | 1835 | 1840 | rVB4 | 34165   | 48853   | 1.07%   | 0.110%  |
| 60 | 12.814 | 1845 | 1852 | 1857 | rVB  | 240294  | 468485  | 10.29%  | 1.057%  |
| 61 | 12.879 | 1857 | 1863 | 1867 | rBV  | 755119  | 1306127 | 28.68%  | 2.946%  |
| 62 | 12.914 | 1867 | 1869 | 1871 | rVV  | 311359  | 378388  | 8.31%   | 0.853%  |
| 63 | 12.949 | 1871 | 1875 | 1882 | rVB3 | 673032  | 1272969 | 27.95%  | 2.871%  |
| 64 | 13.008 | 1882 | 1885 | 1891 | rVB2 | 82053   | 122733  | 2.70%   | 0.277%  |
| 65 | 13.120 | 1894 | 1904 | 1910 | rBV  | 319728  | 647133  | 14.21%  | 1.460%  |
| 66 | 13.185 | 1910 | 1915 | 1922 | rVB4 | 118197  | 225766  | 4.96%   | 0.509%  |
| 67 | 13.267 | 1922 | 1929 | 1934 | rBV  | 984700  | 1532503 | 33.65%  | 3.457%  |
| 68 | 13.343 | 1934 | 1942 | 1947 | rBV3 | 154952  | 327309  | 7.19%   | 0.738%  |
| 69 | 13.396 | 1948 | 1951 | 1956 | rVB4 | 79436   | 105259  | 2.31%   | 0.237%  |
| 70 | 13.461 | 1956 | 1962 | 1966 | rBV4 | 120430  | 206052  | 4.52%   | 0.465%  |
| 71 | 13.508 | 1966 | 1970 | 1974 | rVV3 | 62963   | 89507   | 1.97%   | 0.202%  |
| 72 | 13.573 | 1975 | 1981 | 1990 | rVV2 | 913225  | 1820409 | 39.97%  | 4.106%  |
| 73 | 13.637 | 1990 | 1992 | 1994 | rVV2 | 136386  | 161928  | 3.56%   | 0.365%  |
| 74 | 13.667 | 1994 | 1997 | 2002 | rVV2 | 158733  | 265311  | 5.83%   | 0.598%  |
| 75 | 13.732 | 2003 | 2008 | 2011 | rVV3 | 196987  | 372851  | 8.19%   | 0.841%  |
| 76 | 13.767 | 2011 | 2014 | 2018 | rVV3 | 381126  | 658247  | 14.45%  | 1.485%  |

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 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 40030

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\_D\Method\82D022621S.M  
 Title : SW846 8260

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 77  | 13.808 | 2018 | 2021 | 2030 | rVB3 | 193464 | 416012 | 9.13%  | 0.938% |
| 78  | 13.890 | 2030 | 2035 | 2041 | rBV2 | 294980 | 452340 | 9.93%  | 1.020% |
| 79  | 13.967 | 2044 | 2048 | 2054 | rVV  | 76413  | 128443 | 2.82%  | 0.290% |
| 80  | 14.026 | 2054 | 2058 | 2061 | rVV  | 78468  | 134488 | 2.95%  | 0.303% |
| 81  | 14.055 | 2061 | 2063 | 2068 | rVV3 | 95739  | 141353 | 3.10%  | 0.319% |
| 82  | 14.114 | 2068 | 2073 | 2077 | rVB  | 126560 | 201893 | 4.43%  | 0.455% |
| 83  | 14.220 | 2086 | 2091 | 2097 | rVB2 | 159399 | 263178 | 5.78%  | 0.594% |
| 84  | 14.355 | 2109 | 2114 | 2117 | rBV4 | 41202  | 74288  | 1.63%  | 0.168% |
| 85  | 14.402 | 2118 | 2122 | 2126 | rVV4 | 79371  | 109521 | 2.40%  | 0.247% |
| 86  | 14.473 | 2132 | 2134 | 2138 | rVB  | 58050  | 74374  | 1.63%  | 0.168% |
| 87  | 14.520 | 2138 | 2142 | 2146 | rBV3 | 53612  | 72574  | 1.59%  | 0.164% |
| 88  | 14.567 | 2146 | 2150 | 2155 | rVB4 | 51007  | 82806  | 1.82%  | 0.187% |
| 89  | 14.661 | 2162 | 2166 | 2170 | rVB3 | 42302  | 56334  | 1.24%  | 0.127% |
| 90  | 14.708 | 2170 | 2174 | 2178 | rBV2 | 85556  | 159146 | 3.49%  | 0.359% |
| 91  | 14.743 | 2178 | 2180 | 2187 | rVB3 | 107901 | 154266 | 3.39%  | 0.348% |
| 92  | 14.826 | 2187 | 2194 | 2199 | rBV4 | 147704 | 325977 | 7.16%  | 0.735% |
| 93  | 14.979 | 2215 | 2220 | 2226 | rVB  | 80282  | 135978 | 2.99%  | 0.307% |
| 94  | 15.202 | 2251 | 2258 | 2263 | rBV6 | 32759  | 70680  | 1.55%  | 0.159% |
| 95  | 15.284 | 2265 | 2272 | 2279 | rVB  | 435429 | 736478 | 16.17% | 1.661% |
| 96  | 15.396 | 2287 | 2291 | 2296 | rVB2 | 28260  | 50326  | 1.11%  | 0.114% |
| 97  | 15.590 | 2320 | 2324 | 2334 | rVB2 | 59868  | 114837 | 2.52%  | 0.259% |
| 98  | 15.696 | 2334 | 2342 | 2351 | rBV7 | 22669  | 64507  | 1.42%  | 0.145% |
| 99  | 15.902 | 2373 | 2377 | 2386 | rVB5 | 43509  | 80117  | 1.76%  | 0.181% |
| 100 | 16.490 | 2470 | 2477 | 2482 | rBV6 | 20370  | 50085  | 1.10%  | 0.113% |

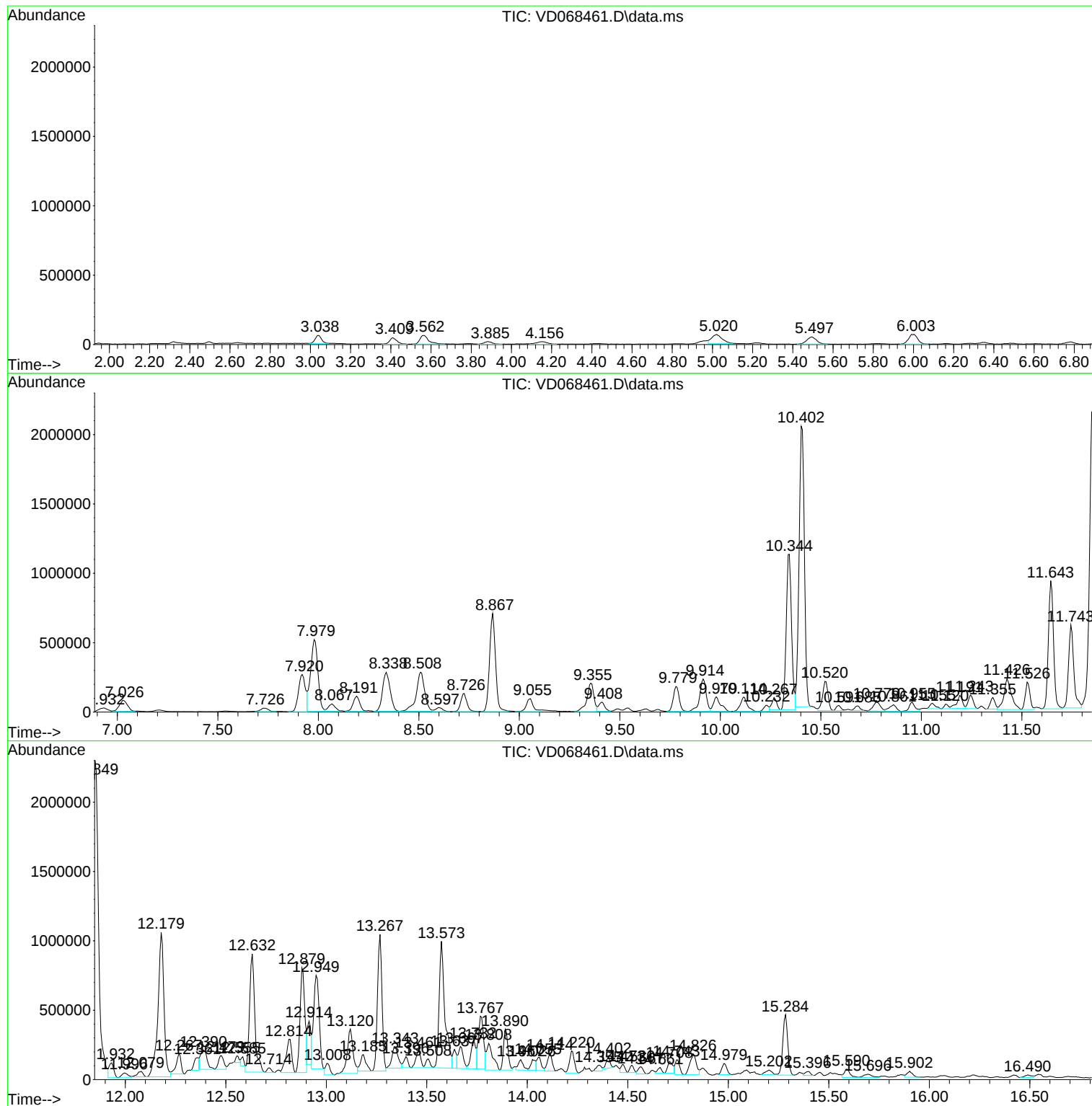
Sum of corrected areas: 44336779

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022621\  
Data File : VD068461.D  
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Sample : M1489-03  
Misc : 3.84G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
40030

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022621S.M  
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022621\  
Data File : VD068461.D  
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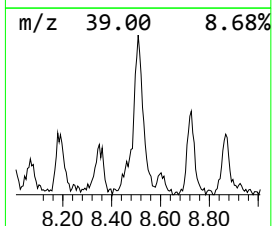
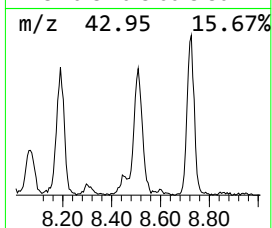
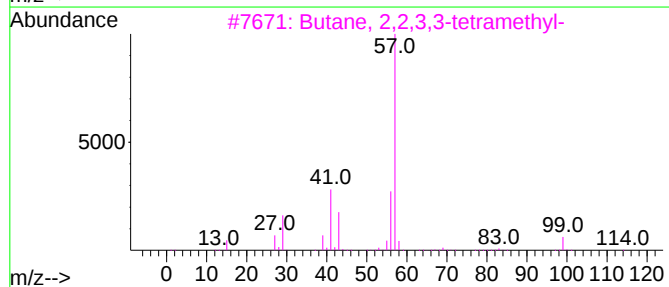
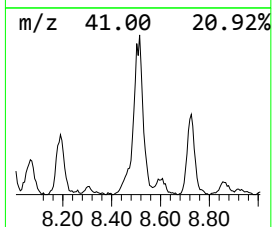
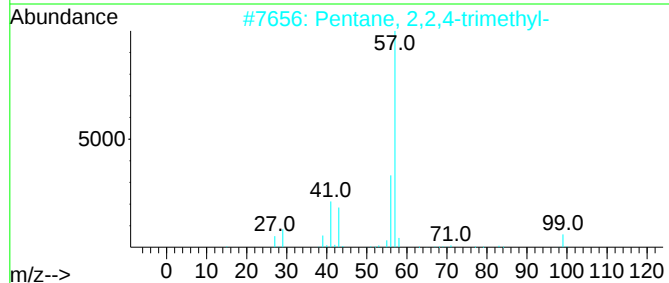
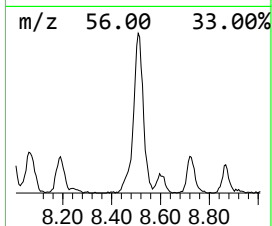
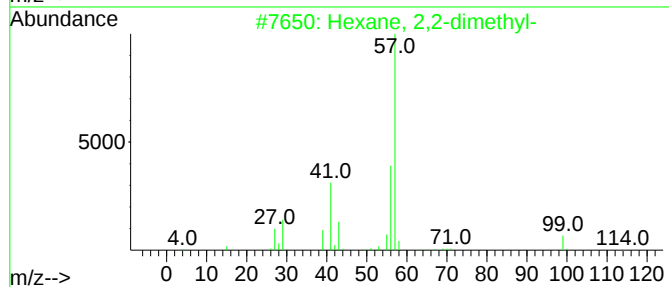
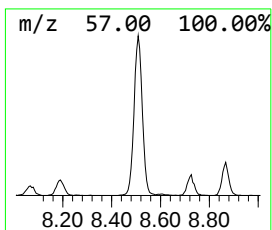
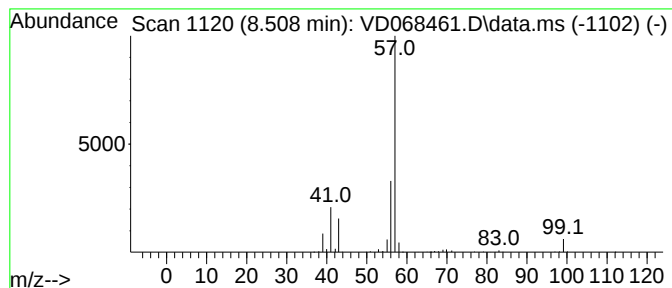
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022621S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 1 Hexane, 2,2-dimethyl- Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD    | R.T.  |
|-------|------------|--------|---------------------|-------|
| 8.508 | 28.55 ug/l | 822614 | 1,4-Difluorobenzene | 8.867 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Hexane, 2,2-dimethyl-         | 114 | C8H18   | 000590-73-8 | 72   |
| 2    |    |   | Pentane, 2,2,4-trimethyl-     | 114 | C8H18   | 000540-84-1 | 72   |
| 3    |    |   | Butane, 2,2,3,3-tetramethyl-  | 114 | C8H18   | 000594-82-1 | 72   |
| 4    |    |   | Pentane, 2,2,4,4-tetramethyl- | 128 | C9H20   | 001070-87-7 | 59   |
| 5    |    |   | Hexane, 2,2,4-trimethyl-      | 128 | C9H20   | 016747-26-5 | 59   |



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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampled :  
40030

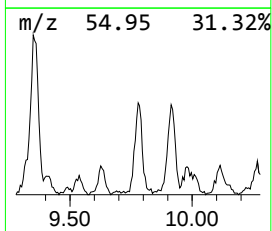
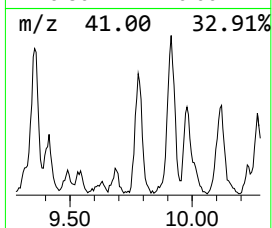
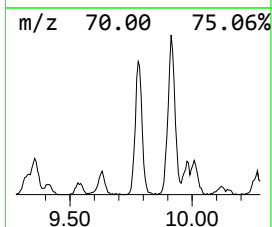
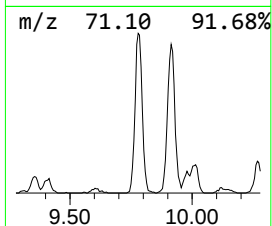
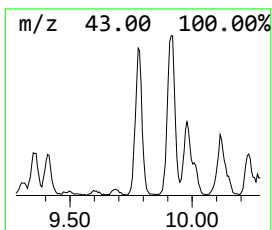
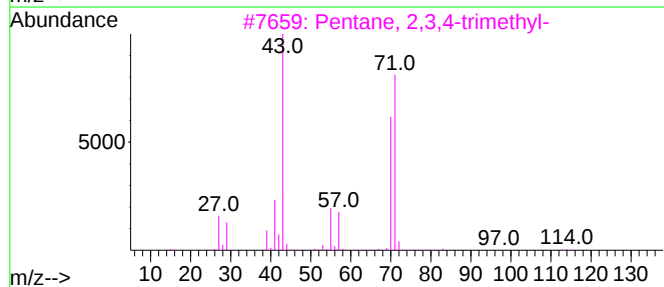
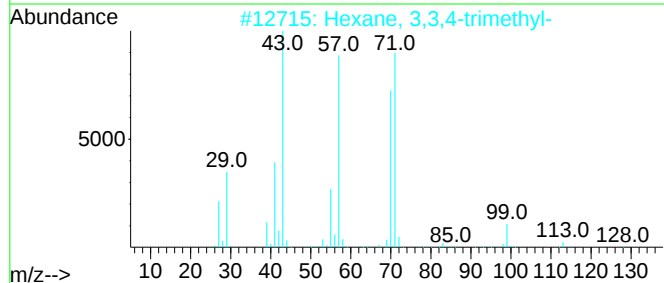
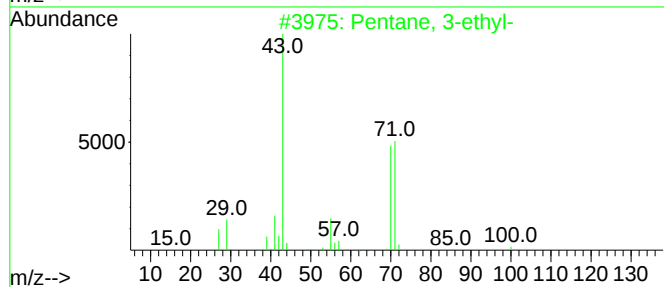
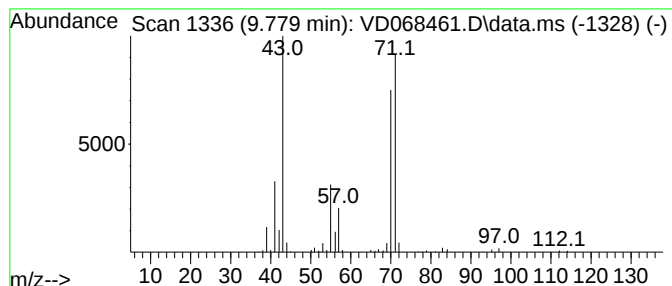
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022621S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 2 Pentane, 3-ethyl- Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD    | R.T.  |
|-------|------------|--------|---------------------|-------|
| 9.779 | 12.47 ug/l | 359163 | 1,4-Difluorobenzene | 8.867 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentane, 3-ethyl-                   | 100 | C7H16   | 000617-78-7 | 83   |
| 2    |    |   | Hexane, 3,3,4-trimethyl-            | 128 | C9H20   | 016747-31-2 | 74   |
| 3    |    |   | Pentane, 2,3,4-trimethyl-           | 114 | C8H18   | 000565-75-3 | 74   |
| 4    |    |   | Butane, 1,1'-oxybis[3-methyl-       | 158 | C10H22O | 000544-01-4 | 74   |
| 5    |    |   | Propanoic acid, 2-methyl-, 2-met... | 158 | C9H18O2 | 002445-69-4 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022621\  
Data File : VD068461.D  
Acq On : 26 Feb 2021 17:25  
Operator : VA/SY  
Sample : M1489-03  
Misc : 3.84G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
40030

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Quant Title : SW846 8260

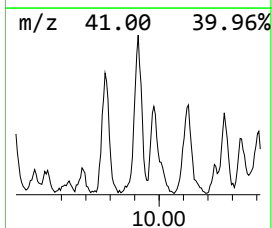
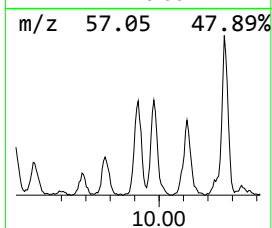
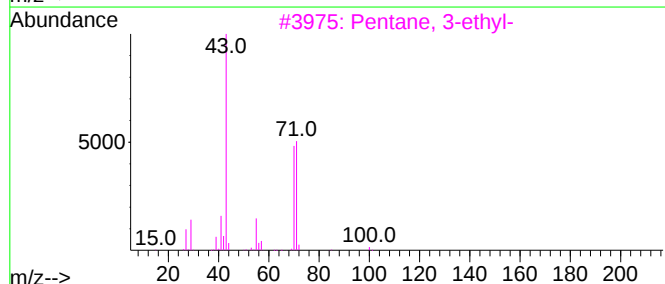
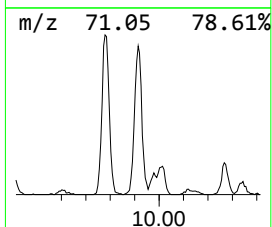
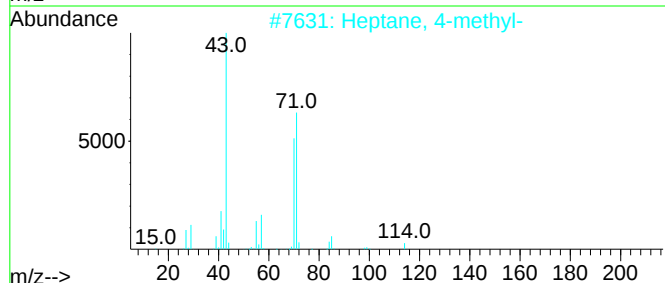
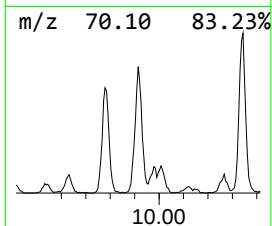
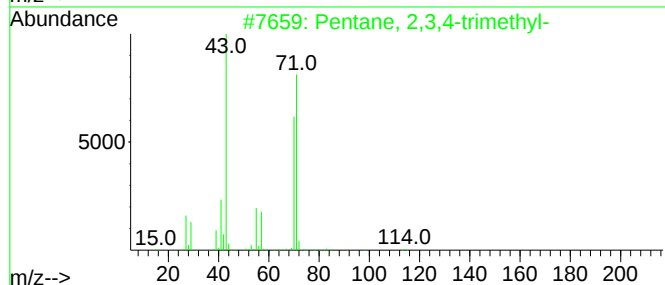
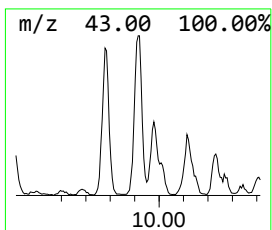
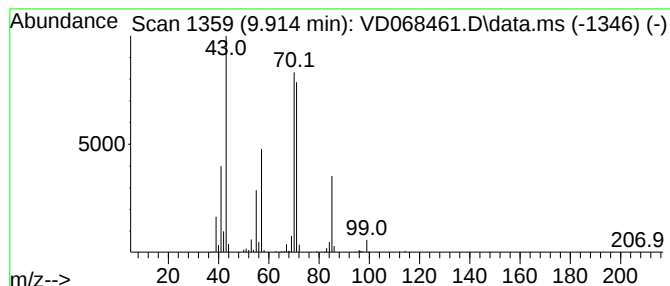
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TIC Integration Parameters: LSCINT.P

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Peak Number 3 Pentane, 2,3,4-trimethyl- Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD    | R.T.  |
|-------|------------|--------|---------------------|-------|
| 9.914 | 18.25 ug/l | 525903 | 1,4-Difluorobenzene | 8.867 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentane, 2,3,4-trimethyl-  | 114 | C8H18   | 000565-75-3 | 80   |
| 2    |    |   | Heptane, 4-methyl-         | 114 | C8H18   | 000589-53-7 | 72   |
| 3    |    |   | Pentane, 3-ethyl-          | 100 | C7H16   | 000617-78-7 | 72   |
| 4    |    |   | Pentane, 2,3,3-trimethyl-  | 114 | C8H18   | 000560-21-4 | 53   |
| 5    |    |   | Pentane, 3-ethyl-2-methyl- | 114 | C8H18   | 000609-26-7 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022621\  
Data File : VD068461.D  
Acq On : 26 Feb 2021 17:25  
Operator : VA/SY  
Sample : M1489-03  
Misc : 3.84G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampled :  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022621S.M  
Quant Title : SW846 8260

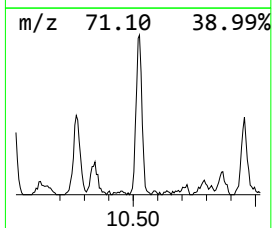
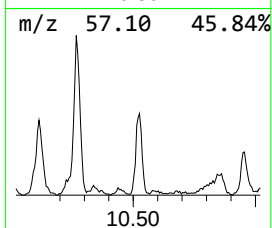
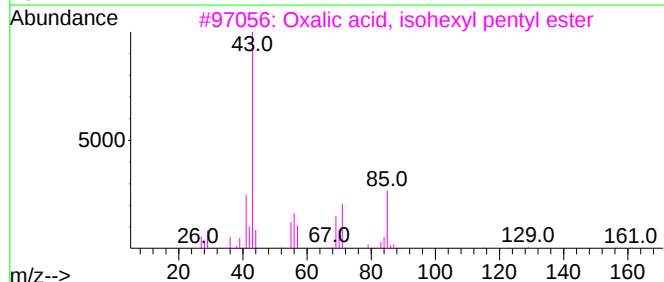
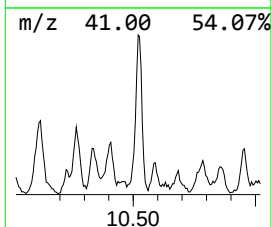
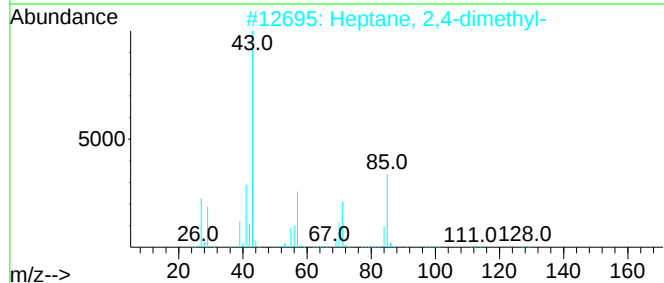
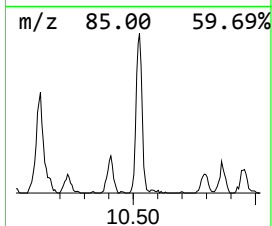
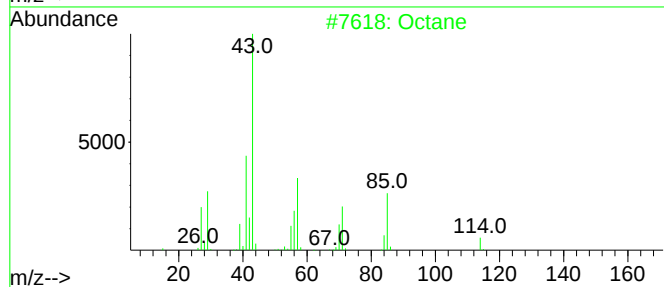
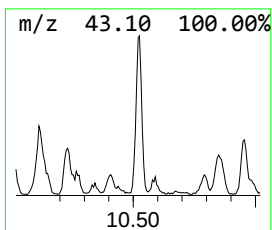
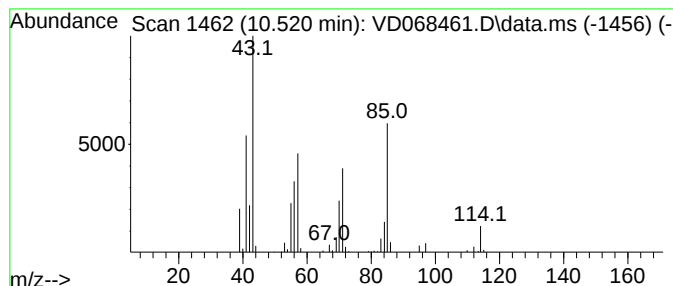
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 Octane Concentration Rank 10

| R.T.   | EstConc    | Area   | Relative to ISTD | R.T.   |
|--------|------------|--------|------------------|--------|
| 10.520 | 12.08 ug/l | 394662 | Chlorobenzene-d5 | 11.644 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|---|------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Octane                             | 114 | C8H18    | 000111-65-9  | 90   |
| 2    |    |   | Heptane, 2,4-dimethyl-             | 128 | C9H20    | 002213-23-2  | 72   |
| 3    |    |   | Oxalic acid, isohexyl pentyl ester | 244 | C13H24O4 | 1000309-32-8 | 72   |
| 4    |    |   | Heptane, 2,3-dimethyl-             | 128 | C9H20    | 003074-71-3  | 64   |
| 5    |    |   | Pentane, 3-ethyl-2-methyl-         | 114 | C8H18    | 000609-26-7  | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022621\  
Data File : VD068461.D  
Acq On : 26 Feb 2021 17:25  
Operator : VA/SY  
Sample : M1489-03  
Misc : 3.84G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
40030

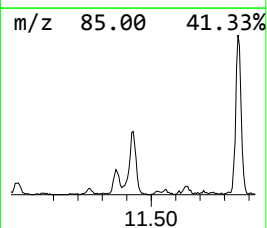
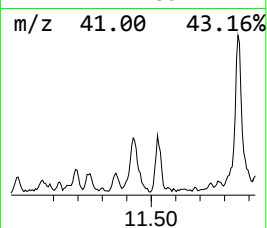
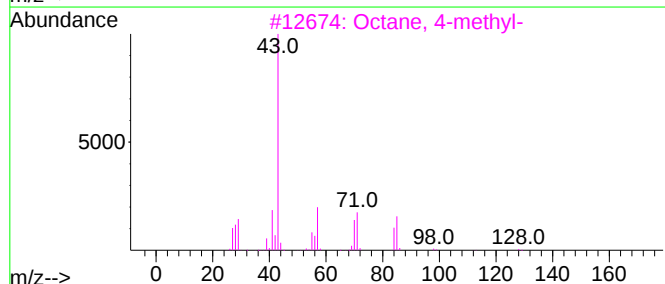
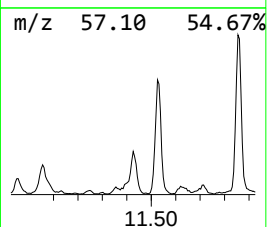
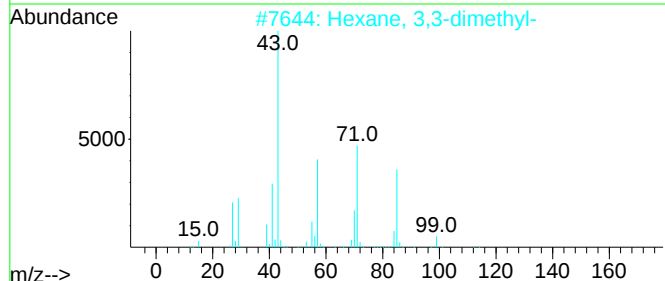
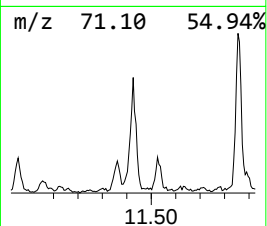
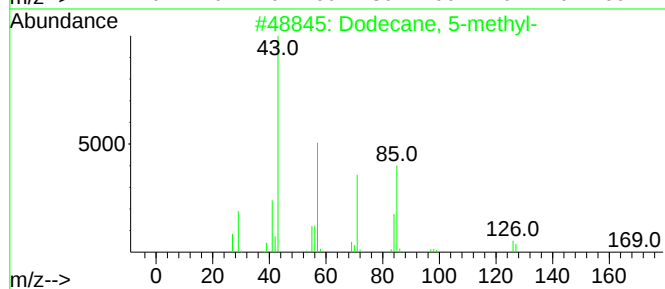
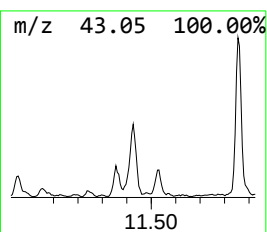
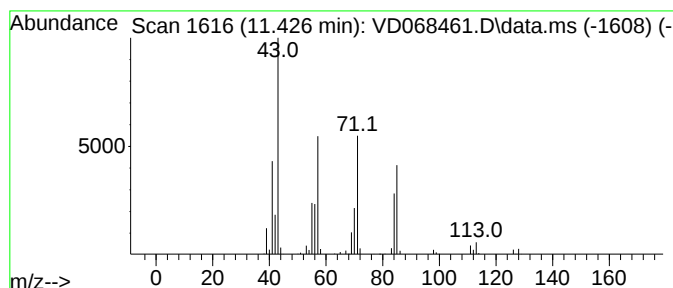
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Quant Title : SW846 8260

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

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Peak Number 5 Dodecane, 5-methyl- Concentration Rank 7

| R.T.      | EstConc                    | Area   | Relative to ISTD | R.T.        |      |
|-----------|----------------------------|--------|------------------|-------------|------|
| 11.426    | 17.43 ug/l                 | 569352 | Chlorobenzene-d5 | 11.644      |      |
| Hit# of 5 | Tentative ID               | MW     | MolForm          | CAS#        | Qual |
| 1         | Dodecane, 5-methyl-        | 184    | C13H28           | 017453-93-9 | 59   |
| 2         | Hexane, 3,3-dimethyl-      | 114    | C8H18            | 000563-16-6 | 59   |
| 3         | Octane, 4-methyl-          | 128    | C9H20            | 002216-34-4 | 52   |
| 4         | Heptane, 3,4,5-trimethyl-  | 142    | C10H22           | 020278-89-1 | 52   |
| 5         | Pentane, 3-ethyl-2-methyl- | 114    | C8H18            | 000609-26-7 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022621\  
Data File : VD068461.D  
Acq On : 26 Feb 2021 17:25  
Operator : VA/SY  
Sample : M1489-03  
Misc : 3.84G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
40030

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022621S.M  
Quant Title : SW846 8260

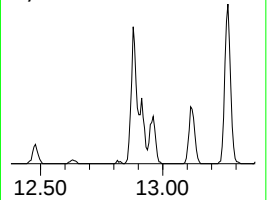
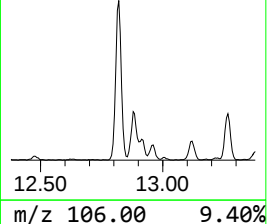
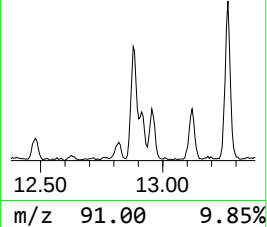
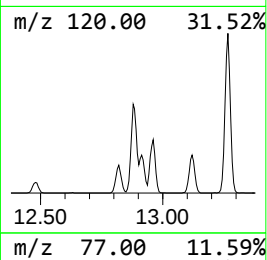
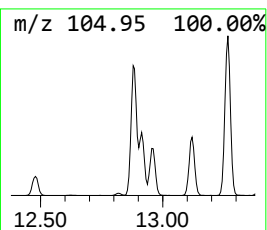
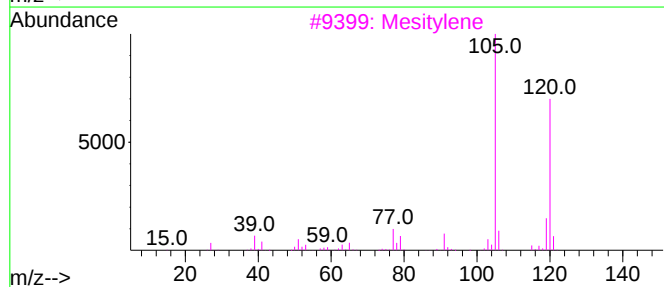
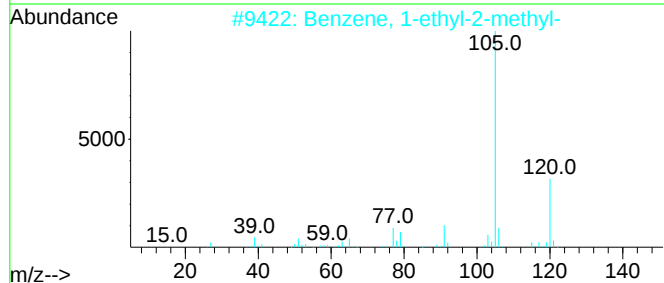
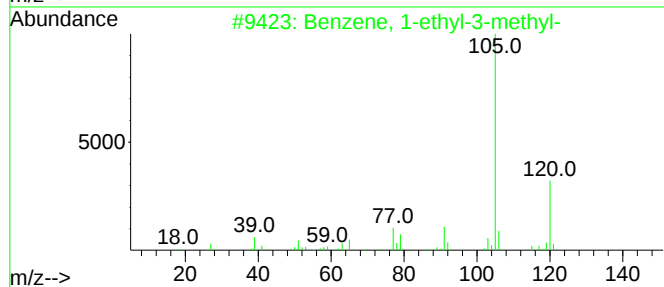
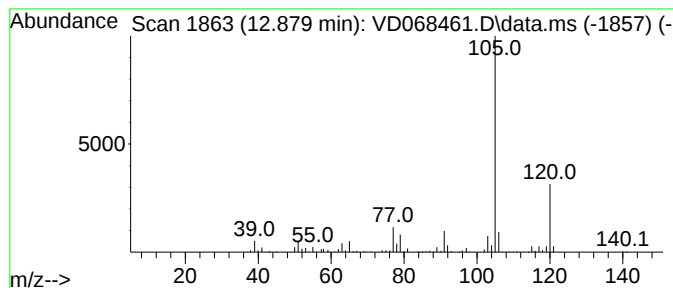
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 12.879 | 35.87 ug/l | 1306130 | 1,4-Dichlorobenzene-d4 | 13.573 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 95   |
| 2    |    |   | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 95   |
| 3    |    |   | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |
| 4    |    |   | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |
| 5    |    |   | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022621\  
Data File : VD068461.D  
Acq On : 26 Feb 2021 17:25  
Operator : VA/SY  
Sample : M1489-03  
Misc : 3.84G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
40030

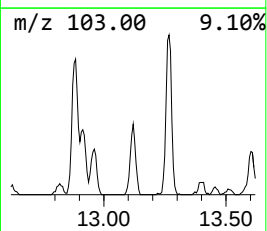
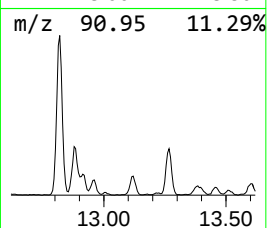
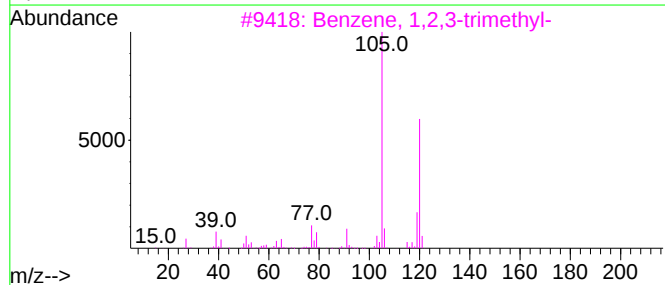
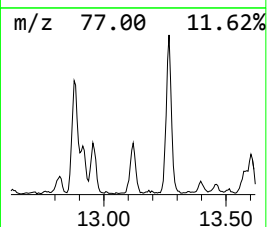
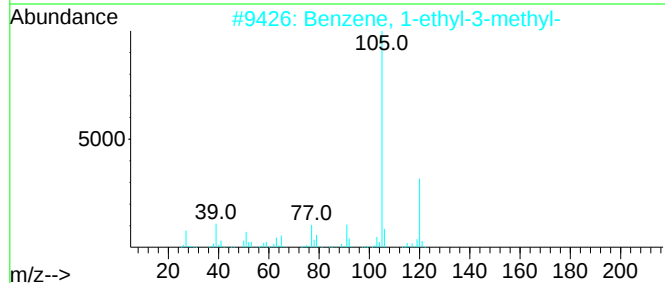
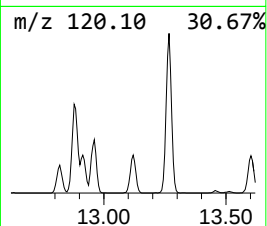
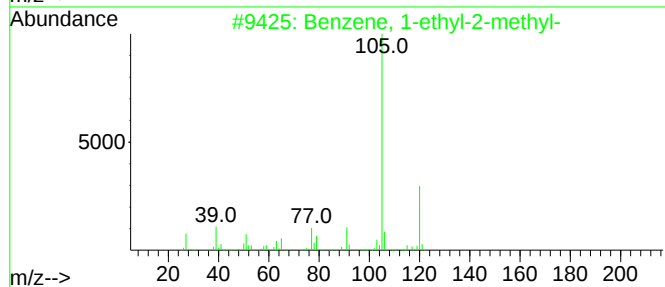
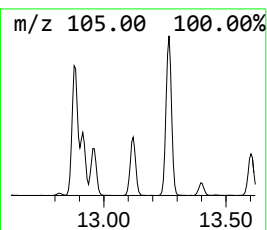
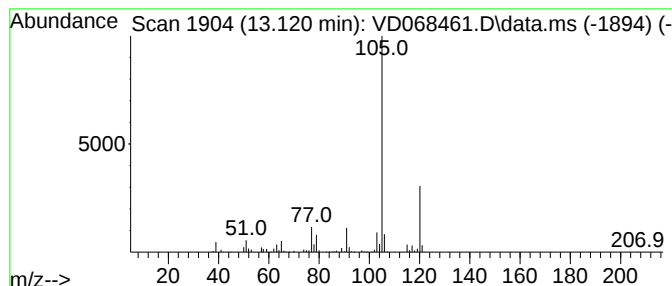
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Quant Title : SW846 8260

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

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Peak Number 7 Benzene, 1-ethyl-2-methyl- Concentration Rank 6

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.120 | 17.77 ug/l | 647133 | 1,4-Dichlorobenzene-d4 | 13.573 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 94   |
| 2    |    |   | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 91   |
| 3    |    |   | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 91   |
| 4    |    |   | Mesitylene                 | 120 | C9H12   | 000108-67-8 | 91   |
| 5    |    |   | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022621\  
Data File : VD068461.D  
Acq On : 26 Feb 2021 17:25  
Operator : VA/SY  
Sample : M1489-03  
Misc : 3.84G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
40030

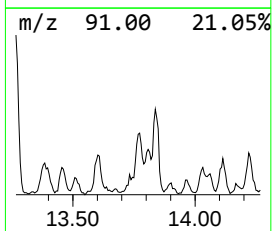
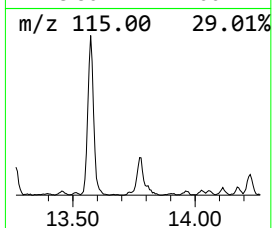
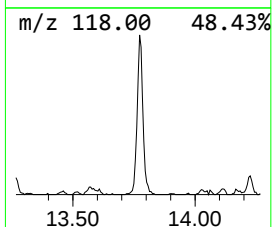
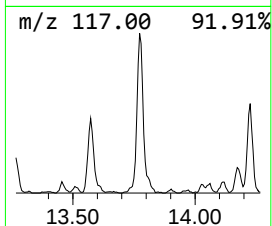
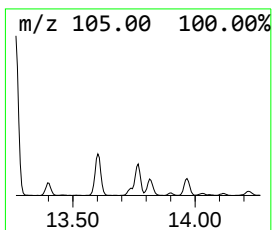
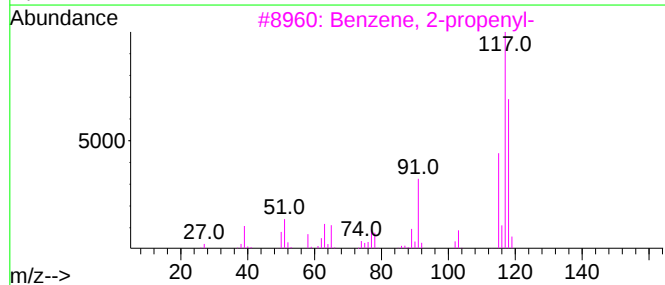
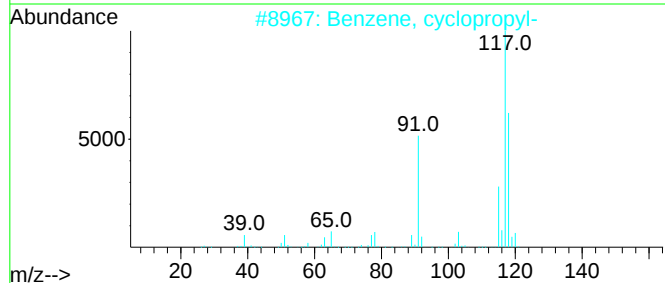
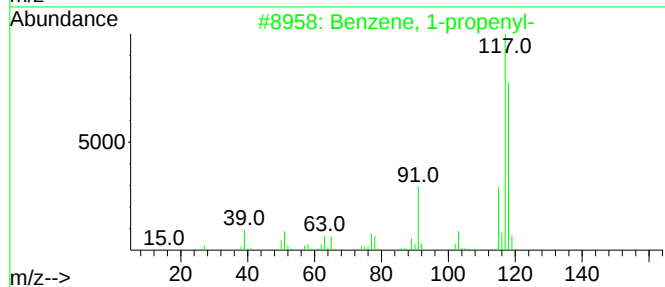
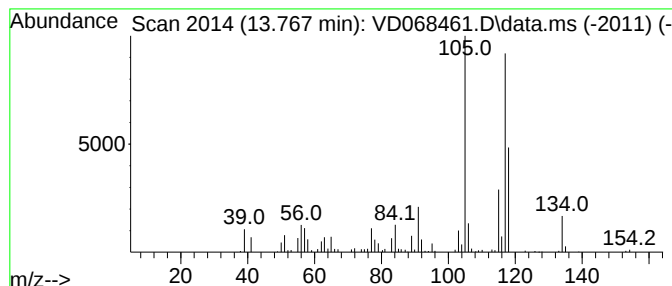
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Quant Title : SW846 8260

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

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Peak Number 8 Benzene, 1-propenyl- Concentration Rank 5

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.767 | 18.08 ug/l | 658247 | 1,4-Dichlorobenzene-d4 | 13.573 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-propenyl-         | 118 | C9H10   | 000637-50-3 | 64   |
| 2    |    |   | Benzene, cyclopropyl-        | 118 | C9H10   | 000873-49-4 | 64   |
| 3    |    |   | Benzene, 2-propenyl-         | 118 | C9H10   | 000300-57-2 | 58   |
| 4    |    |   | Indane                       | 118 | C9H10   | 000496-11-7 | 53   |
| 5    |    |   | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10   | 000611-15-4 | 52   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022621\  
Data File : VD068461.D  
Acq On : 26 Feb 2021 17:25  
Operator : VA/SY  
Sample : M1489-03  
Misc : 3.84G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
40030

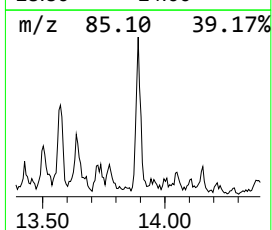
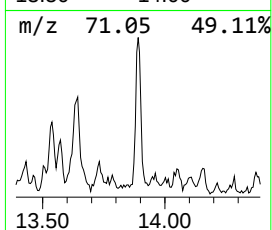
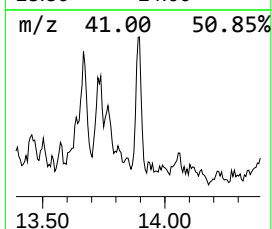
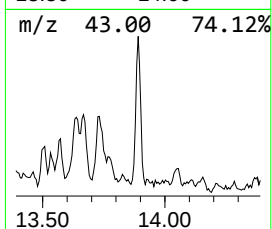
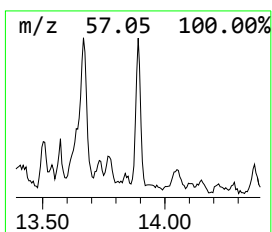
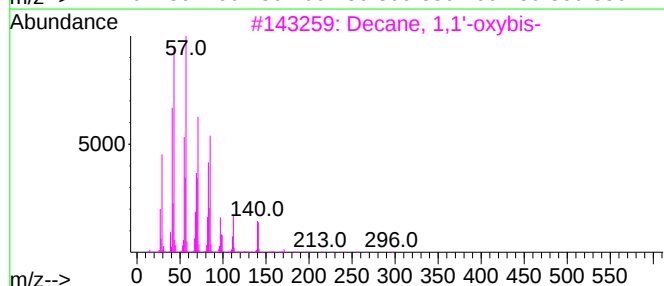
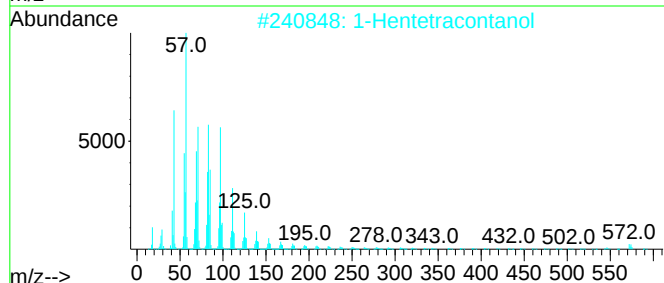
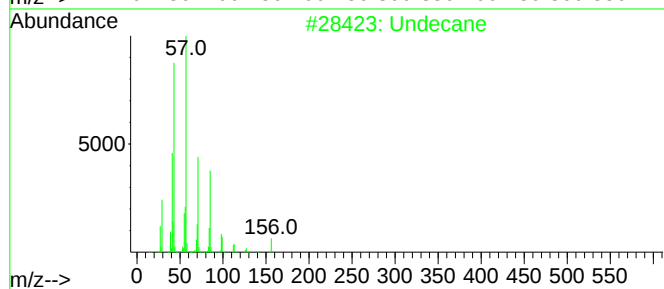
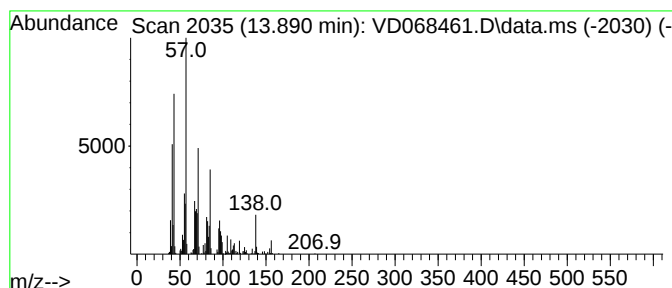
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Quant Title : SW846 8260

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

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Peak Number 9 Undecane Concentration Rank 9

| R.T.      | EstConc              | Area   | Relative to ISTD       | R.T.        |      |
|-----------|----------------------|--------|------------------------|-------------|------|
| 13.890    | 12.42 ug/l           | 452340 | 1,4-Dichlorobenzene-d4 | 13.573      |      |
| Hit# of 5 | Tentative ID         | MW     | MolForm                | CAS#        | Qual |
| 1         | Undecane             | 156    | C11H24                 | 001120-21-4 | 90   |
| 2         | 1-Hentetracontanol   | 593    | C41H84O                | 040710-42-7 | 59   |
| 3         | Decane, 1,1'-oxybis- | 298    | C20H42O                | 002456-28-2 | 46   |
| 4         | 10-Methylnonadecane  | 282    | C20H42                 | 056862-62-5 | 43   |
| 5         | Decane               | 142    | C10H22                 | 000124-18-5 | 38   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022621\  
Data File : VD068461.D  
Acq On : 26 Feb 2021 17:25  
Operator : VA/SY  
Sample : M1489-03  
Misc : 3.84G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
40030

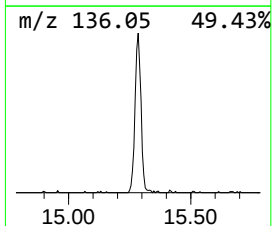
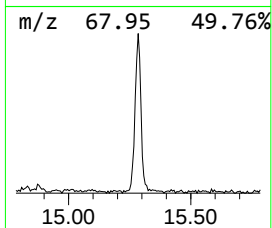
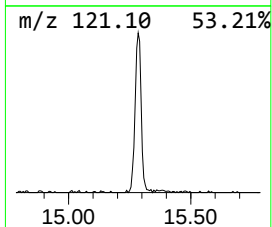
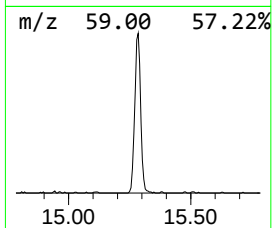
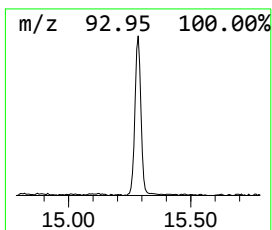
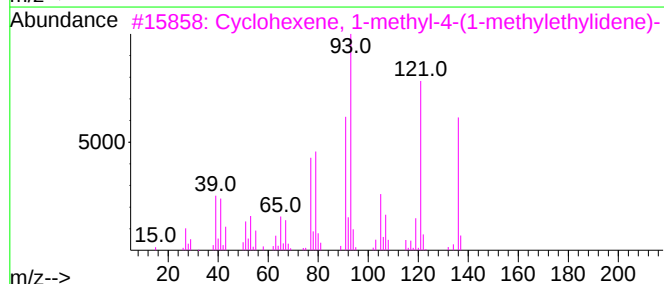
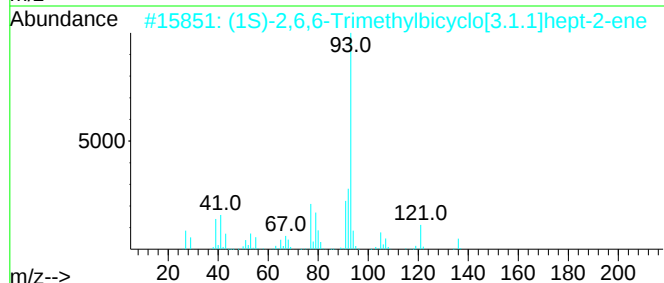
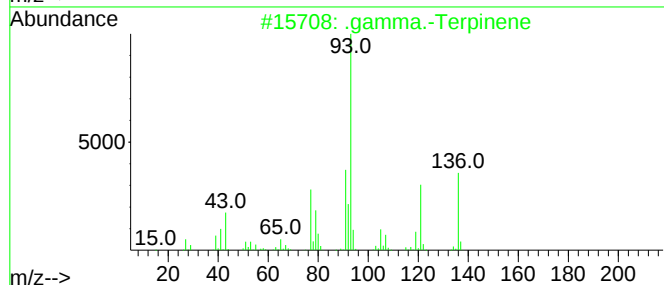
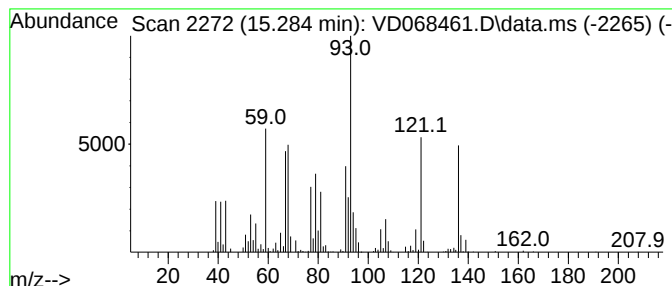
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022621S.M  
Quant Title : SW846 8260

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

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Peak Number 10 .gamma.-Terpinene Concentration Rank 3

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 15.284 | 20.23 ug/l | 736478 | 1,4-Dichlorobenzene-d4 | 13.573 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | .gamma.-Terpinene                   | 136 | C10H16  | 000099-85-4 | 87   |
| 2    |    |   | (1S)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16  | 007785-26-4 | 70   |
| 3    |    |   | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16  | 000586-62-9 | 64   |
| 4    |    |   | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16  | 007785-70-8 | 49   |
| 5    |    |   | Cyclohexene, 5-methyl-3-(1-methy... | 136 | C10H16  | 056816-08-1 | 49   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022621\  
Data File : VD068461.D  
Acq On : 26 Feb 2021 17:25  
Operator : VA/SY  
Sample : M1489-03  
Misc : 3.84G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
40030

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022621S.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 |
| Hexane, 2,2-dim... | 8.508  | 28.6    | ug/l  | 822614   | 2                     | 8.867  | 1440460 | 50.0 |
| Pentane, 3-ethyl-  | 9.779  | 12.5    | ug/l  | 359163   | 2                     | 8.867  | 1440460 | 50.0 |
| Pentane, 2,3,4-... | 9.914  | 18.3    | ug/l  | 525903   | 2                     | 8.867  | 1440460 | 50.0 |
| Octane             | 10.520 | 12.1    | ug/l  | 394662   | 3                     | 11.644 | 1633280 | 50.0 |
| Dodecane, 5-met... | 11.426 | 17.4    | ug/l  | 569352   | 3                     | 11.644 | 1633280 | 50.0 |
| Benzene, 1-ethy... | 12.879 | 35.9    | ug/l  | 1306130  | 4                     | 13.573 | 1820410 | 50.0 |
| Benzene, 1-ethy... | 13.120 | 17.8    | ug/l  | 647133   | 4                     | 13.573 | 1820410 | 50.0 |
| Benzene, 1-prop... | 13.767 | 18.1    | ug/l  | 658247   | 4                     | 13.573 | 1820410 | 50.0 |
| Undecane           | 13.890 | 12.4    | ug/l  | 452340   | 4                     | 13.573 | 1820410 | 50.0 |
| .gamma.-Terpinene  | 15.284 | 20.2    | ug/l  | 736478   | 4                     | 13.573 | 1820410 | 50.0 |