

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072821\  
 Data File : VD069889.D  
 Acq On : 28 Jul 2021 15:25  
 Operator : VA/SY  
 Sample : M3202-01  
 Misc : 5.09G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CL-02-072721

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\82D072221S.M  
 Title : SW846 8260

Signal : TIC: VD069889.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         | 2.226       | 46            | 52          | 54           | rBV4     | 6275           | 13177         | 16.19%          | 2.058%        |
| 2         | 2.491       | 95            | 97          | 99           | rVV      | 1934           | 1813          | 2.23%           | 0.283%        |
| 3         | 2.532       | 102           | 104         | 109          | rVB      | 1523           | 2293          | 2.82%           | 0.358%        |
| 4         | 2.867       | 157           | 161         | 162          | rVV2     | 1335           | 2090          | 2.57%           | 0.326%        |
| 5         | 3.467       | 259           | 263         | 265          | rBV2     | 1790           | 2290          | 2.81%           | 0.358%        |
| 6         | 3.508       | 267           | 270         | 274          | rBV2     | 1540           | 1958          | 2.41%           | 0.306%        |
| 7         | 3.597       | 284           | 285         | 288          | rBV2     | 1803           | 2093          | 2.57%           | 0.327%        |
| 8         | 3.826       | 322           | 324         | 327          | rVB2     | 2224           | 1923          | 2.36%           | 0.300%        |
| 9         | 3.879       | 331           | 333         | 336          | rVV3     | 1952           | 1806          | 2.22%           | 0.282%        |
| 10        | 3.926       | 339           | 341         | 345          | rVB2     | 1610           | 2070          | 2.54%           | 0.323%        |
| 11        | 3.997       | 350           | 353         | 357          | rBV3     | 1501           | 2001          | 2.46%           | 0.313%        |
| 12        | 4.114       | 370           | 373         | 379          | rBV2     | 1362           | 2545          | 3.13%           | 0.397%        |
| 13        | 4.173       | 379           | 383         | 385          | rBV2     | 2174           | 2084          | 2.56%           | 0.325%        |
| 14        | 4.214       | 388           | 390         | 393          | rBV2     | 2069           | 1867          | 2.29%           | 0.292%        |
| 15        | 4.285       | 400           | 402         | 405          | rBV2     | 1533           | 1784          | 2.19%           | 0.279%        |
| 16        | 4.320       | 405           | 408         | 411          | rBV3     | 1542           | 1856          | 2.28%           | 0.290%        |
| 17        | 4.385       | 416           | 419         | 420          | rBV2     | 1880           | 1787          | 2.20%           | 0.279%        |
| 18        | 4.532       | 441           | 444         | 446          | rBV      | 1899           | 2306          | 2.83%           | 0.360%        |
| 19        | 4.702       | 470           | 473         | 475          | rVB2     | 2143           | 1991          | 2.45%           | 0.311%        |
| 20        | 4.773       | 482           | 485         | 487          | rBV2     | 1767           | 1891          | 2.32%           | 0.295%        |
| 21        | 4.944       | 511           | 514         | 516          | rBV3     | 1889           | 2014          | 2.47%           | 0.315%        |
| 22        | 5.038       | 527           | 530         | 536          | rBV2     | 1607           | 3599          | 4.42%           | 0.562%        |
| 23        | 5.114       | 540           | 543         | 545          | rVV2     | 2004           | 2296          | 2.82%           | 0.359%        |
| 24        | 5.273       | 567           | 570         | 573          | rBV2     | 1654           | 1880          | 2.31%           | 0.294%        |
| 25        | 5.408       | 592           | 593         | 596          | rVB      | 2955           | 1818          | 2.23%           | 0.284%        |
| 26        | 5.444       | 596           | 599         | 601          | rBV2     | 1821           | 2356          | 2.89%           | 0.368%        |
| 27        | 5.496       | 606           | 608         | 610          | rVB2     | 2605           | 1907          | 2.34%           | 0.298%        |
| 28        | 5.514       | 610           | 611         | 614          | rBV      | 1966           | 1995          | 2.45%           | 0.312%        |
| 29        | 5.838       | 661           | 666         | 667          | rBV2     | 1530           | 1981          | 2.43%           | 0.309%        |
| 30        | 5.861       | 669           | 670         | 676          | rVB2     | 2003           | 2788          | 3.42%           | 0.435%        |
| 31        | 5.938       | 681           | 683         | 686          | rBV2     | 1914           | 1820          | 2.24%           | 0.284%        |
| 32        | 6.438       | 765           | 768         | 771          | rVB2     | 1240           | 1844          | 2.27%           | 0.288%        |
| 33        | 6.726       | 815           | 817         | 819          | rVB2     | 3459           | 2596          | 3.19%           | 0.405%        |
| 34        | 6.755       | 819           | 822         | 826          | rBV2     | 1648           | 2843          | 3.49%           | 0.444%        |
| 35        | 6.791       | 826           | 828         | 830          | rVB      | 1990           | 1781          | 2.19%           | 0.278%        |
| 36        | 6.902       | 845           | 847         | 851          | rVB      | 2022           | 1972          | 2.42%           | 0.308%        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072821\  
 Data File : VD069889.D  
 Acq On : 28 Jul 2021 15:25  
 Operator : VA/SY  
 Sample : M3202-01  
 Misc : 5.09G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CL-02-072721

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\82D072221S.M  
 Title : SW846 8260

|    |       |     |     |     |      |      |      |       |        |
|----|-------|-----|-----|-----|------|------|------|-------|--------|
| 37 | 7.385 | 928 | 929 | 932 | rBV2 | 2137 | 2329 | 2.86% | 0.364% |
| 38 | 7.514 | 948 | 951 | 952 | rBV  | 2388 | 2130 | 2.62% | 0.333% |
| 39 | 7.590 | 963 | 964 | 967 | rBV2 | 1865 | 2388 | 2.93% | 0.373% |
| 40 | 7.702 | 977 | 983 | 984 | rVB3 | 1515 | 2079 | 2.55% | 0.325% |

|    |       |      |      |      |      |       |       |        |        |
|----|-------|------|------|------|------|-------|-------|--------|--------|
| 41 | 7.802 | 998  | 1000 | 1001 | rVB  | 2983  | 1886  | 2.32%  | 0.295% |
| 42 | 7.879 | 1011 | 1013 | 1014 | rVV  | 2395  | 1991  | 2.45%  | 0.311% |
| 43 | 7.908 | 1014 | 1018 | 1023 | rVV5 | 11236 | 25275 | 31.05% | 3.948% |
| 44 | 7.979 | 1024 | 1030 | 1038 | rVV3 | 21438 | 48554 | 59.64% | 7.584% |
| 45 | 8.243 | 1070 | 1075 | 1076 | rBV2 | 1977  | 2807  | 3.45%  | 0.438% |

|    |       |      |      |      |      |       |       |        |        |
|----|-------|------|------|------|------|-------|-------|--------|--------|
| 46 | 8.332 | 1083 | 1090 | 1096 | rVB5 | 16104 | 37252 | 45.76% | 5.818% |
| 47 | 8.461 | 1109 | 1112 | 1115 | rVB2 | 1488  | 2027  | 2.49%  | 0.317% |
| 48 | 8.667 | 1144 | 1147 | 1150 | rBV2 | 2933  | 3537  | 4.34%  | 0.552% |
| 49 | 8.861 | 1173 | 1180 | 1186 | rVV2 | 30026 | 57526 | 70.66% | 8.985% |
| 50 | 9.067 | 1212 | 1215 | 1217 | rBV3 | 1542  | 2352  | 2.89%  | 0.367% |

|    |       |      |      |      |      |      |      |       |        |
|----|-------|------|------|------|------|------|------|-------|--------|
| 51 | 9.155 | 1227 | 1230 | 1233 | rBV2 | 1926 | 2340 | 2.87% | 0.365% |
| 52 | 9.355 | 1258 | 1264 | 1268 | rBV3 | 2652 | 3589 | 4.41% | 0.561% |
| 53 | 9.461 | 1281 | 1282 | 1285 | rVB2 | 3309 | 2350 | 2.89% | 0.367% |
| 54 | 9.490 | 1285 | 1287 | 1289 | rBV2 | 2754 | 2983 | 3.66% | 0.466% |
| 55 | 9.567 | 1298 | 1300 | 1302 | rBV2 | 1976 | 1828 | 2.25% | 0.286% |

|    |        |      |      |      |      |      |      |       |        |
|----|--------|------|------|------|------|------|------|-------|--------|
| 56 | 9.696  | 1321 | 1322 | 1327 | rBV2 | 1844 | 2884 | 3.54% | 0.450% |
| 57 | 9.749  | 1327 | 1331 | 1333 | rVV2 | 1637 | 2534 | 3.11% | 0.396% |
| 58 | 9.896  | 1353 | 1356 | 1357 | rVB2 | 2139 | 1869 | 2.30% | 0.292% |
| 59 | 9.920  | 1357 | 1360 | 1362 | rBV2 | 2704 | 3007 | 3.69% | 0.470% |
| 60 | 10.108 | 1390 | 1392 | 1394 | rBV2 | 1965 | 1779 | 2.19% | 0.278% |

|    |        |      |      |      |      |       |       |         |         |
|----|--------|------|------|------|------|-------|-------|---------|---------|
| 61 | 10.337 | 1423 | 1431 | 1438 | rBV  | 46293 | 81408 | 100.00% | 12.715% |
| 62 | 10.461 | 1449 | 1452 | 1455 | rBV2 | 2329  | 2358  | 2.90%   | 0.368%  |
| 63 | 11.002 | 1542 | 1544 | 1547 | rBV3 | 1869  | 1899  | 2.33%   | 0.297%  |
| 64 | 11.079 | 1556 | 1557 | 1560 | rVB  | 2859  | 1907  | 2.34%   | 0.298%  |
| 65 | 11.126 | 1560 | 1565 | 1566 | rBV2 | 2388  | 2657  | 3.26%   | 0.415%  |

|    |        |      |      |      |      |      |      |       |        |
|----|--------|------|------|------|------|------|------|-------|--------|
| 66 | 11.243 | 1582 | 1585 | 1588 | rVB3 | 2872 | 3344 | 4.11% | 0.522% |
| 67 | 11.343 | 1598 | 1602 | 1605 | rBV2 | 1773 | 3233 | 3.97% | 0.505% |
| 68 | 11.402 | 1611 | 1612 | 1615 | rVB  | 2071 | 2076 | 2.55% | 0.324% |
| 69 | 11.478 | 1623 | 1625 | 1628 | rVB  | 2165 | 2233 | 2.74% | 0.349% |
| 70 | 11.514 | 1628 | 1631 | 1632 | rBV2 | 2059 | 2219 | 2.73% | 0.347% |

|    |        |      |      |      |      |       |       |        |         |
|----|--------|------|------|------|------|-------|-------|--------|---------|
| 71 | 11.637 | 1647 | 1652 | 1660 | rVB3 | 36126 | 66241 | 81.37% | 10.346% |
| 72 | 11.737 | 1665 | 1669 | 1673 | rVB3 | 2752  | 3836  | 4.71%  | 0.599%  |
| 73 | 11.773 | 1673 | 1675 | 1677 | rBV2 | 3265  | 2722  | 3.34%  | 0.425%  |
| 74 | 11.873 | 1689 | 1692 | 1694 | rBV3 | 1751  | 2173  | 2.67%  | 0.339%  |
| 75 | 11.926 | 1698 | 1701 | 1703 | rBV3 | 2208  | 2115  | 2.60%  | 0.330%  |

|    |        |      |      |      |      |      |      |       |        |
|----|--------|------|------|------|------|------|------|-------|--------|
| 76 | 12.020 | 1711 | 1717 | 1719 | rBV3 | 2522 | 3563 | 4.38% | 0.556% |
|----|--------|------|------|------|------|------|------|-------|--------|

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072821\  
 Data File : VD069889.D  
 Acq On : 28 Jul 2021 15:25  
 Operator : VA/SY  
 Sample : M3202-01  
 Misc : 5.09G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CL-02-072721

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\82D072221S.M  
 Title : SW846 8260

|     |        |      |      |      |      |       |       |        |        |
|-----|--------|------|------|------|------|-------|-------|--------|--------|
| 77  | 12.261 | 1753 | 1758 | 1763 | rBV3 | 2808  | 5250  | 6.45%  | 0.820% |
| 78  | 12.367 | 1774 | 1776 | 1780 | rVV2 | 1776  | 2028  | 2.49%  | 0.317% |
| 79  | 12.455 | 1790 | 1791 | 1796 | rBV3 | 1417  | 1976  | 2.43%  | 0.309% |
| 80  | 12.502 | 1796 | 1799 | 1804 | rVB4 | 2041  | 3372  | 4.14%  | 0.527% |
| 81  | 12.625 | 1815 | 1820 | 1825 | rBV3 | 22202 | 36192 | 44.46% | 5.653% |
| 82  | 12.784 | 1843 | 1847 | 1848 | rBV3 | 1870  | 1990  | 2.44%  | 0.311% |
| 83  | 13.161 | 1909 | 1911 | 1912 | rVV  | 2173  | 1886  | 2.32%  | 0.295% |
| 84  | 13.173 | 1912 | 1913 | 1917 | rVV3 | 4231  | 3560  | 4.37%  | 0.556% |
| 85  | 13.249 | 1924 | 1926 | 1928 | rVB2 | 2054  | 1841  | 2.26%  | 0.288% |
| 86  | 13.278 | 1928 | 1931 | 1933 | rBV2 | 3387  | 3921  | 4.82%  | 0.612% |
| 87  | 13.508 | 1968 | 1970 | 1973 | rVB2 | 2561  | 1878  | 2.31%  | 0.293% |
| 88  | 13.567 | 1974 | 1980 | 1987 | rVB2 | 28986 | 48263 | 59.29% | 7.538% |
| 89  | 13.678 | 1995 | 1999 | 2000 | rVB3 | 2695  | 2927  | 3.60%  | 0.457% |
| 90  | 13.702 | 2000 | 2003 | 2006 | rBV3 | 2442  | 3443  | 4.23%  | 0.538% |
| 91  | 14.208 | 2086 | 2089 | 2090 | rBV2 | 2695  | 2074  | 2.55%  | 0.324% |
| 92  | 14.296 | 2102 | 2104 | 2106 | rVB3 | 2835  | 1943  | 2.39%  | 0.303% |
| 93  | 14.667 | 2165 | 2167 | 2169 | rBV2 | 3425  | 2896  | 3.56%  | 0.452% |
| 94  | 14.702 | 2171 | 2173 | 2175 | rBV2 | 2670  | 2327  | 2.86%  | 0.363% |
| 95  | 14.796 | 2185 | 2189 | 2192 | rBV5 | 3551  | 5496  | 6.75%  | 0.858% |
| 96  | 14.884 | 2201 | 2204 | 2205 | rBV3 | 3057  | 2655  | 3.26%  | 0.415% |
| 97  | 14.937 | 2212 | 2213 | 2216 | rBV3 | 3494  | 3068  | 3.77%  | 0.479% |
| 98  | 15.490 | 2306 | 2307 | 2311 | rBV4 | 3367  | 4259  | 5.23%  | 0.665% |
| 99  | 15.872 | 2370 | 2372 | 2373 | rVB  | 5451  | 2901  | 3.56%  | 0.453% |
| 100 | 15.884 | 2373 | 2374 | 2377 | rBV3 | 4974  | 5715  | 7.02%  | 0.893% |

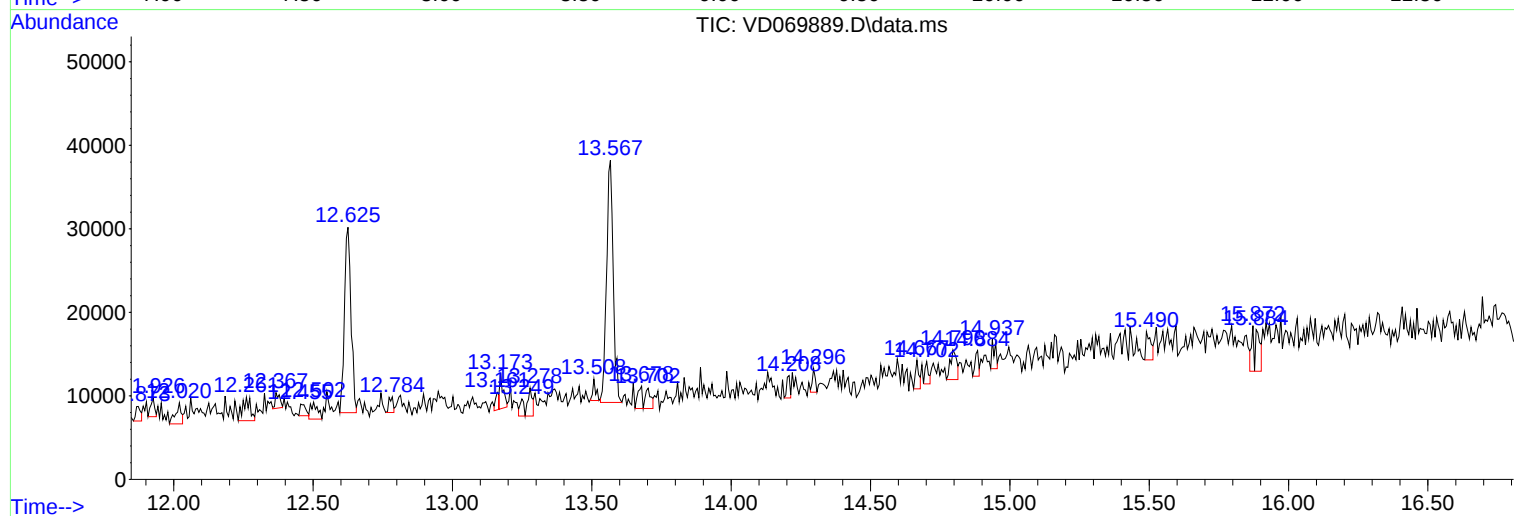
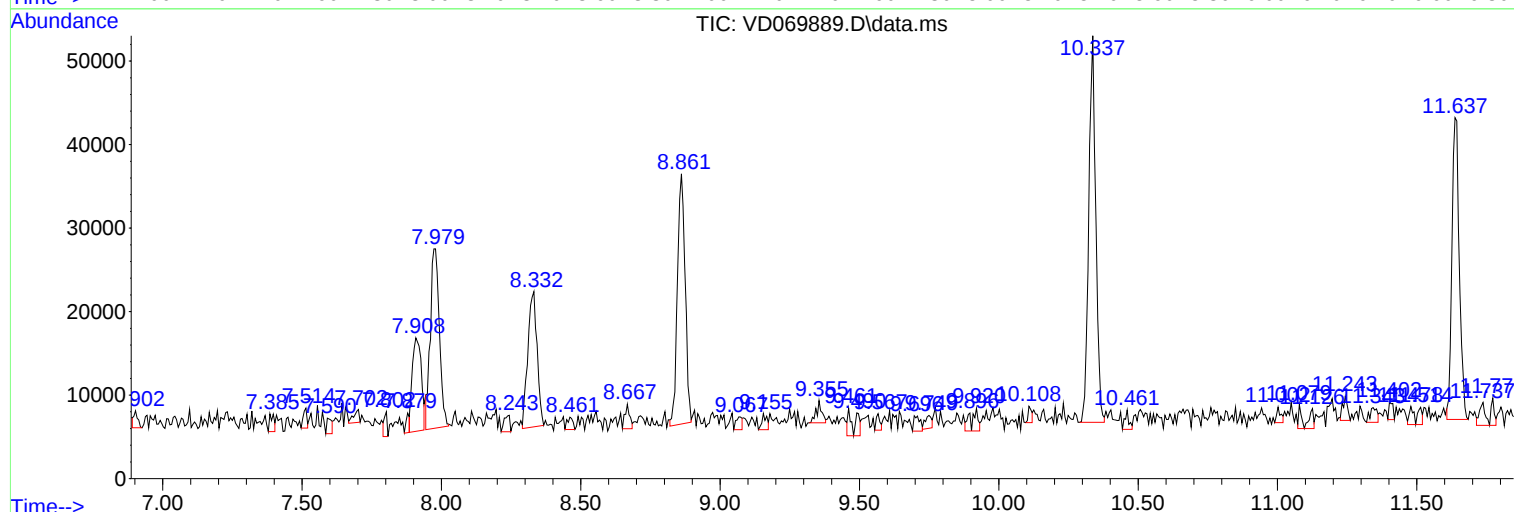
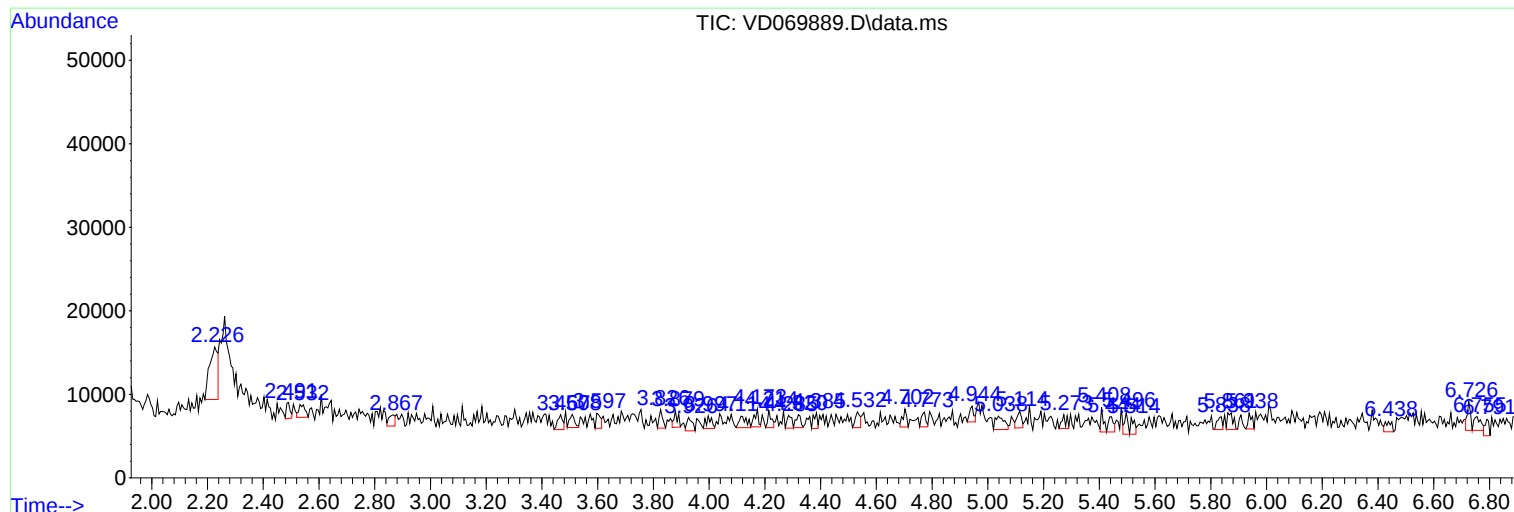
Sum of corrected areas: 640256

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072821\  
Data File : VD069889.D  
Acq On : 28 Jul 2021 15:25  
Operator : VA/SY  
Sample : M3202-01  
Misc : 5.09G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-02-072721

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072821\  
Data File : VD069889.D  
Acq On : 28 Jul 2021 15:25  
Operator : VA/SY  
Sample : M3202-01  
Misc : 5.09G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-02-072721

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
Quant Title : SW846 8260

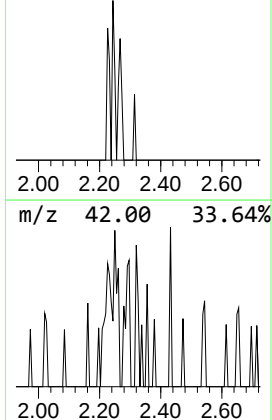
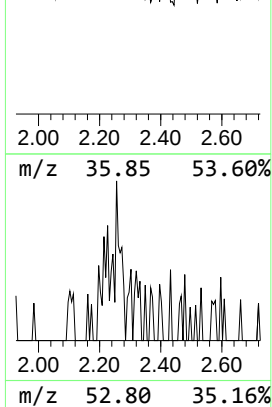
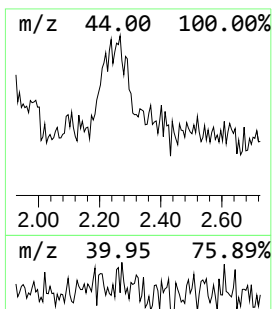
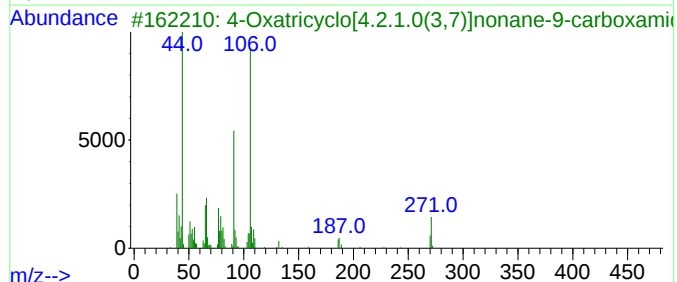
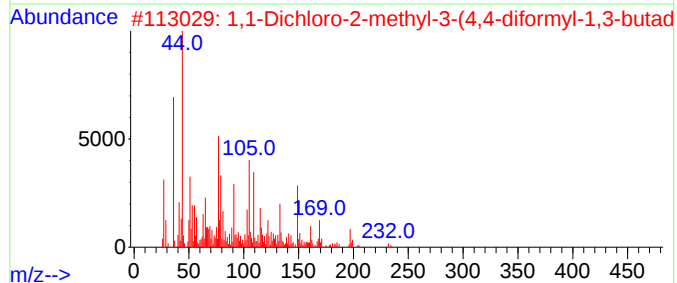
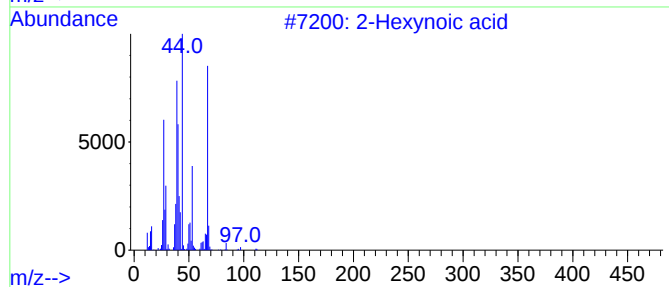
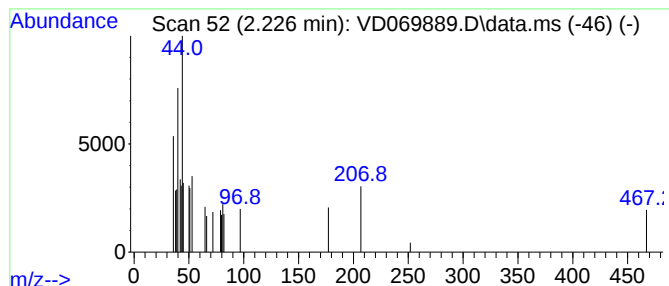
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 1 unknown2.226 Concentration Rank 1

| R.T.  | EstConc    | Area  | Relative to ISTD   | R.T.  |
|-------|------------|-------|--------------------|-------|
| 2.226 | 13.57 ug/l | 13177 | Pentafluorobenzene | 7.973 |

| Hit# | of                                  | 5 | Tentative ID | MW  | MolForm     | CAS#         | Qual |
|------|-------------------------------------|---|--------------|-----|-------------|--------------|------|
| 1    | 2-Hexynoic acid                     |   |              | 112 | C6H8O2      | 000764-33-0  | 23   |
| 2    | 1,1-Dichloro-2-methyl-3-(4,4-dif... |   |              | 232 | C10H10Cl2O2 | 132607-16-0  | 9    |
| 3    | 4-Oxatricyclo[4.2.1.0(3,7)]nonan... |   |              | 271 | C16H17NO3   | 1000319-23-3 | 9    |
| 4    | Dodecamethylene imine               |   |              | 183 | C12H25N     | 1000430-67-9 | 9    |
| 5    | Pyrazine, methoxy-, 1-oxide         |   |              | 126 | C5H6N2O2    | 032046-05-2  | 9    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD072821\  
Data File : VD069889.D  
Acq On : 28 Jul 2021 15:25  
Operator : VA/SY  
Sample : M3202-01  
Misc : 5.09G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
CL-02-072721

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |       |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|-------|------|
|                  |       |         |       |          | #                     | RT    | Resp  | Conc |
| unknown2.226     | 2.226 | 13.6    | ug/l  | 13177    | 1                     | 7.973 | 48554 | 50.0 |