

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY060321\  
 Data File : VY004946.D  
 Acq On : 03 Jun 2021 18:55  
 Operator : SY/MD  
 Sample : M2589-16  
 Misc : 14.78G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 18-B11(4-6)

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\_Y\methods\82Y060221S.M  
 Title : SW846 8260

Signal : TIC: VY004946.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         | 2.058       | 37            | 39          | 48           | rVB2     | 13043          | 23996         | 1.50%           | 0.221%        |
| 2         | 2.223       | 63            | 66          | 76           | rVB2     | 9720           | 19342         | 1.21%           | 0.178%        |
| 3         | 2.393       | 91            | 94          | 100          | rVB2     | 9705           | 16356         | 1.02%           | 0.151%        |
| 4         | 3.259       | 228           | 236         | 247          | rVB7     | 5111           | 16883         | 1.05%           | 0.156%        |
| 5         | 3.960       | 340           | 351         | 365          | rBV      | 32308          | 92554         | 5.77%           | 0.853%        |
| 6         | 4.204       | 379           | 391         | 402          | rBV      | 11109          | 30748         | 1.92%           | 0.283%        |
| 7         | 4.728       | 464           | 477         | 494          | rBV3     | 9374           | 37352         | 2.33%           | 0.344%        |
| 8         | 7.002       | 841           | 850         | 859          | rBV      | 11121          | 30946         | 1.93%           | 0.285%        |
| 9         | 7.728       | 958           | 969         | 974          | rBV      | 168991         | 400505        | 24.96%          | 3.692%        |
| 10        | 7.795       | 974           | 980         | 990          | rVB      | 262093         | 617977        | 38.51%          | 5.697%        |
| 11        | 8.148       | 1029          | 1038        | 1050         | rBV      | 196015         | 430004        | 26.80%          | 3.964%        |
| 12        | 8.551       | 1095          | 1104        | 1114         | rVB4     | 10429          | 25970         | 1.62%           | 0.239%        |
| 13        | 8.697       | 1119          | 1128        | 1138         | rVV      | 448031         | 874156        | 54.47%          | 8.058%        |
| 14        | 9.191       | 1204          | 1209        | 1215         | rVB4     | 13276          | 27930         | 1.74%           | 0.257%        |
| 15        | 9.959       | 1326          | 1335        | 1348         | rVB4     | 8110           | 24952         | 1.55%           | 0.230%        |
| 16        | 10.185      | 1364          | 1372        | 1379         | rBV      | 761976         | 1307853       | 81.50%          | 12.056%       |
| 17        | 10.245      | 1379          | 1382        | 1387         | rVB      | 16273          | 27024         | 1.68%           | 0.249%        |
| 18        | 10.367      | 1394          | 1402        | 1410         | rVB4     | 10977          | 28542         | 1.78%           | 0.263%        |
| 19        | 10.526      | 1423          | 1428        | 1433         | rVB2     | 10076          | 17766         | 1.11%           | 0.164%        |
| 20        | 10.715      | 1450          | 1459        | 1464         | rVB7     | 8929           | 22239         | 1.39%           | 0.205%        |
| 21        | 10.806      | 1469          | 1474        | 1479         | rBV      | 13162          | 21167         | 1.32%           | 0.195%        |
| 22        | 11.093      | 1516          | 1521        | 1526         | rVB2     | 17005          | 29499         | 1.84%           | 0.272%        |
| 23        | 11.282      | 1544          | 1552        | 1564         | rVB5     | 12619          | 35208         | 2.19%           | 0.325%        |
| 24        | 11.495      | 1579          | 1587        | 1596         | rVB      | 656139         | 1081842       | 67.42%          | 9.973%        |
| 25        | 11.593      | 1596          | 1603        | 1607         | rBV2     | 19076          | 38476         | 2.40%           | 0.355%        |
| 26        | 11.703      | 1612          | 1621        | 1626         | rBV2     | 45035          | 112832        | 7.03%           | 1.040%        |
| 27        | 12.032      | 1663          | 1675        | 1683         | rBV2     | 47894          | 111574        | 6.95%           | 1.029%        |
| 28        | 12.123      | 1686          | 1690        | 1694         | rVB      | 11419          | 17109         | 1.07%           | 0.158%        |
| 29        | 12.202      | 1694          | 1703        | 1704         | rBV3     | 20614          | 34441         | 2.15%           | 0.317%        |
| 30        | 12.233      | 1704          | 1708        | 1715         | rVB5     | 35146          | 71820         | 4.48%           | 0.662%        |
| 31        | 12.337      | 1719          | 1725        | 1729         | rBV2     | 81429          | 136476        | 8.50%           | 1.258%        |
| 32        | 12.391      | 1729          | 1734        | 1740         | rVV      | 118052         | 178997        | 11.15%          | 1.650%        |
| 33        | 12.489      | 1743          | 1750        | 1757         | rVV3     | 910995         | 1604726       | 100.00%         | 14.793%       |
| 34        | 12.587      | 1761          | 1766        | 1772         | rVB      | 78030          | 134388        | 8.37%           | 1.239%        |
| 35        | 12.647      | 1772          | 1776        | 1778         | rBV3     | 13439          | 22890         | 1.43%           | 0.211%        |
| 36        | 12.739      | 1785          | 1791        | 1796         | rBV2     | 44462          | 89242         | 5.56%           | 0.823%        |

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 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 18-B11(4-6)

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\_Y\methods\82Y060221S.M  
 Title : SW846 8260

|    |        |      |      |      |       |        |         |        |        |
|----|--------|------|------|------|-------|--------|---------|--------|--------|
| 37 | 12.812 | 1797 | 1803 | 1813 | rVV5  | 57696  | 137022  | 8.54%  | 1.263% |
| 38 | 12.910 | 1813 | 1819 | 1823 | rVV5  | 28961  | 52926   | 3.30%  | 0.488% |
| 39 | 12.977 | 1823 | 1830 | 1836 | rVV   | 42244  | 86877   | 5.41%  | 0.801% |
| 40 | 13.044 | 1836 | 1841 | 1844 | rVV2  | 35467  | 55931   | 3.49%  | 0.516% |
| 41 | 13.123 | 1848 | 1854 | 1862 | rVB   | 103737 | 175470  | 10.93% | 1.618% |
| 42 | 13.245 | 1869 | 1874 | 1879 | rBV4  | 13455  | 33942   | 2.12%  | 0.313% |
| 43 | 13.318 | 1881 | 1886 | 1890 | rVV2  | 29587  | 57919   | 3.61%  | 0.534% |
| 44 | 13.367 | 1890 | 1894 | 1898 | rVV   | 58099  | 92052   | 5.74%  | 0.849% |
| 45 | 13.428 | 1898 | 1904 | 1918 | rVB   | 601682 | 1017400 | 63.40% | 9.379% |
| 46 | 13.629 | 1932 | 1937 | 1941 | rVV   | 47474  | 74670   | 4.65%  | 0.688% |
| 47 | 13.751 | 1953 | 1957 | 1961 | rBV5  | 16969  | 28192   | 1.76%  | 0.260% |
| 48 | 13.885 | 1975 | 1979 | 1982 | rVV   | 14762  | 24285   | 1.51%  | 0.224% |
| 49 | 13.916 | 1982 | 1984 | 1988 | rVV2  | 14861  | 18690   | 1.16%  | 0.172% |
| 50 | 13.970 | 1988 | 1993 | 1998 | rVB3  | 36297  | 58600   | 3.65%  | 0.540% |
| 51 | 14.080 | 2006 | 2011 | 2016 | rVB2  | 21998  | 36566   | 2.28%  | 0.337% |
| 52 | 14.208 | 2028 | 2032 | 2037 | rBV3  | 11804  | 19289   | 1.20%  | 0.178% |
| 53 | 14.312 | 2043 | 2049 | 2057 | rVB   | 196054 | 339908  | 21.18% | 3.133% |
| 54 | 14.678 | 2102 | 2109 | 2114 | rBV3  | 28333  | 70355   | 4.38%  | 0.649% |
| 55 | 14.739 | 2114 | 2119 | 2131 | rVB4  | 25395  | 73170   | 4.56%  | 0.675% |
| 56 | 14.946 | 2148 | 2153 | 2161 | rVB2  | 69406  | 118458  | 7.38%  | 1.092% |
| 57 | 15.238 | 2191 | 2201 | 2207 | rBV   | 209532 | 359354  | 22.39% | 3.313% |
| 58 | 15.434 | 2230 | 2233 | 2241 | rVB10 | 8349   | 17202   | 1.07%  | 0.159% |
| 59 | 16.293 | 2368 | 2374 | 2381 | rVB2  | 22510  | 45485   | 2.83%  | 0.419% |
| 60 | 16.488 | 2399 | 2406 | 2413 | rBV   | 25908  | 60455   | 3.77%  | 0.557% |

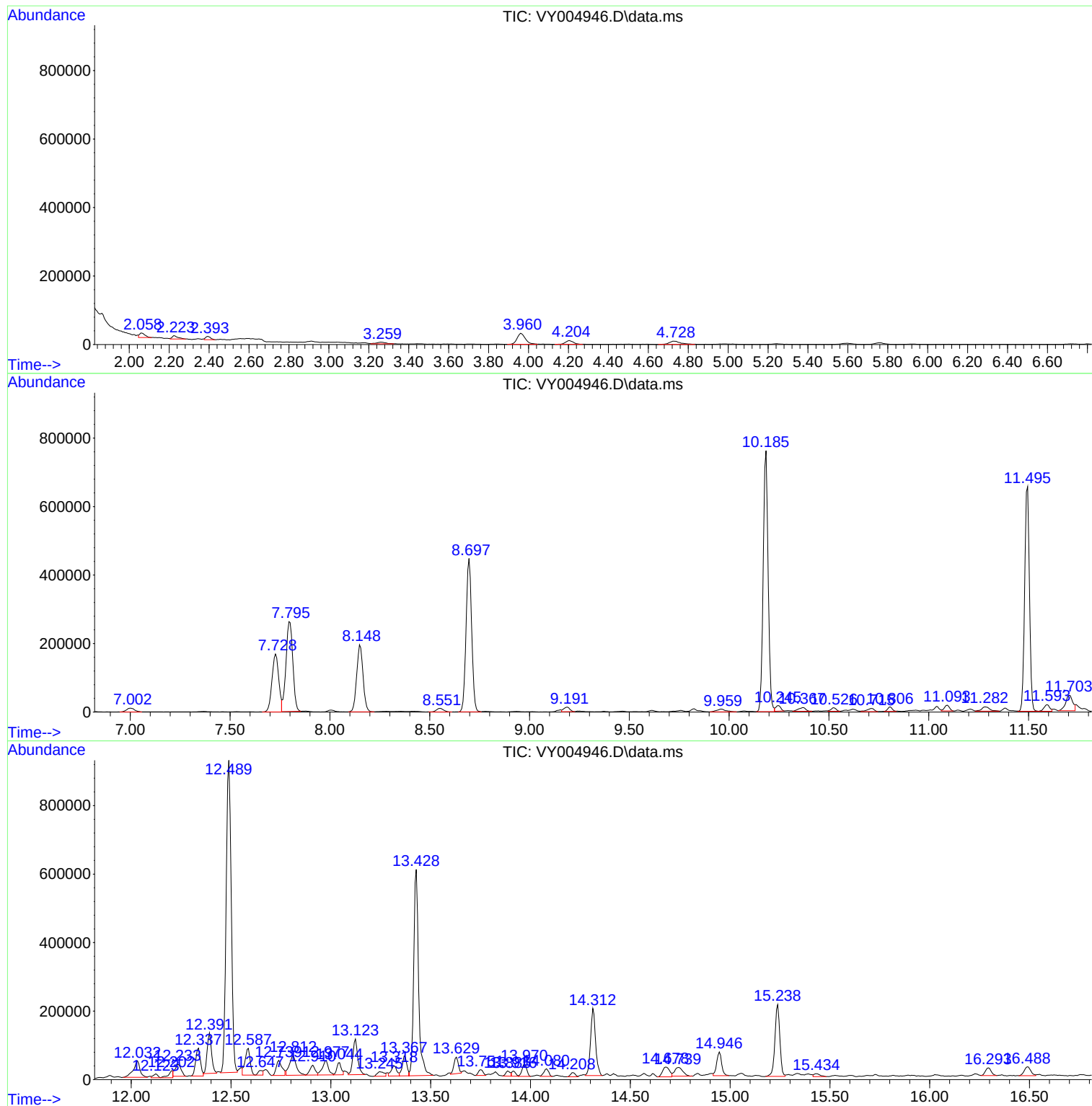
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Instrument :  
MSVOA\_Y  
ClientSampleId :  
18-B11(4-6)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060221S.M  
Quant Title : SW846 8260

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



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

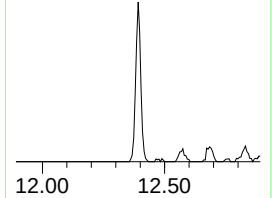
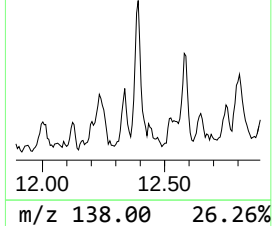
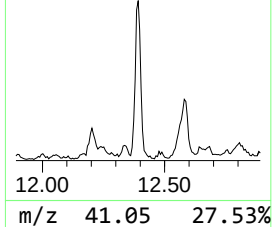
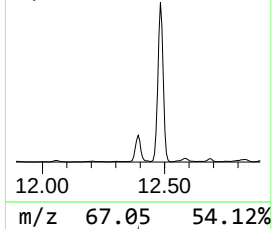
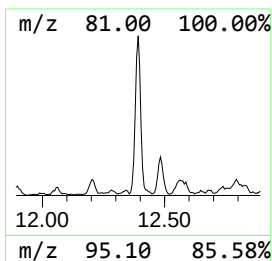
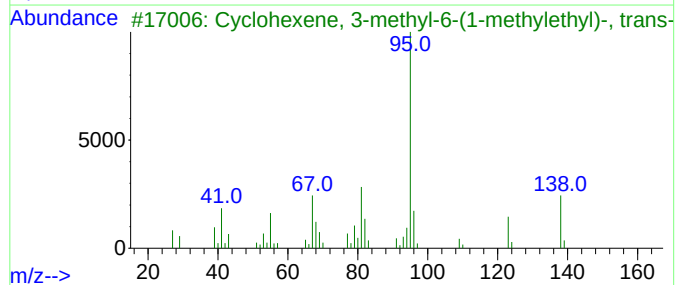
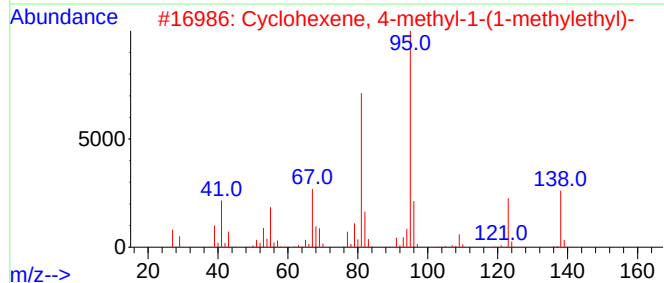
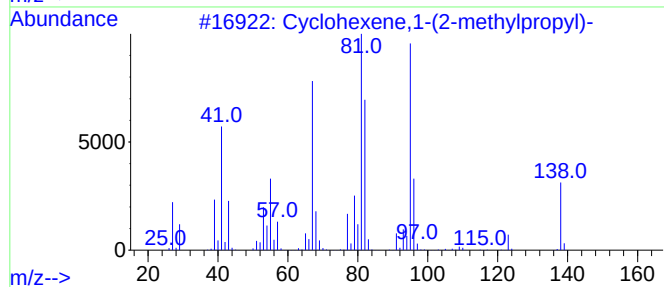
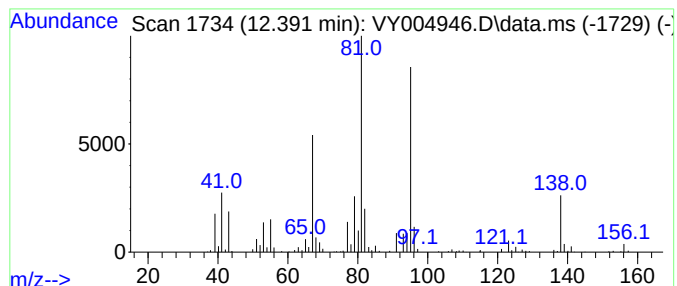
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Peak Number 1 Cyclohexene,1-(2-methylprop... Concentration Rank 2

| R.T.   | EstConc   | Area   | Relative to ISTD | R.T.   |
|--------|-----------|--------|------------------|--------|
| 12.391 | 8.27 ug/l | 178997 | Chlorobenzene-d5 | 11.495 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Cyclohexene,1-(2-methylpropyl)-     | 138 | C10H18  | 003983-03-7  | 87   |
| 2    |    |   | Cyclohexene, 4-methyl-1-(1-methy... | 138 | C10H18  | 000500-00-5  | 86   |
| 3    |    |   | Cyclohexene, 3-methyl-6-(1-methy... | 138 | C10H18  | 001124-26-1  | 52   |
| 4    |    |   | Cyclopentane, (3-methylbutylidene)- | 138 | C10H18  | 053366-51-1  | 52   |
| 5    |    |   | 9-Oxabicyclo[3.3.1]non-6-en-2-one   | 138 | C8H10O2 | 1000190-61-5 | 50   |



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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
18-B11(4-6)

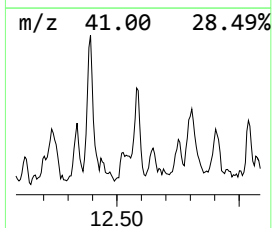
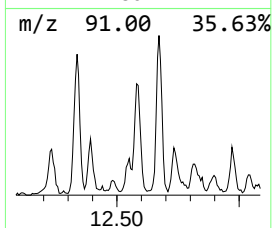
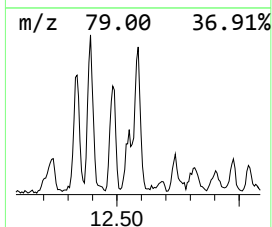
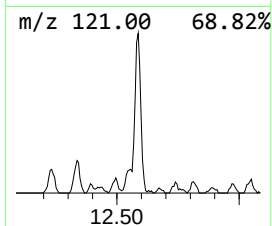
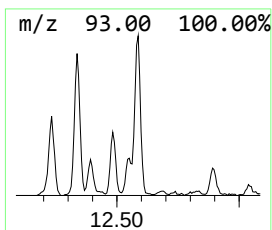
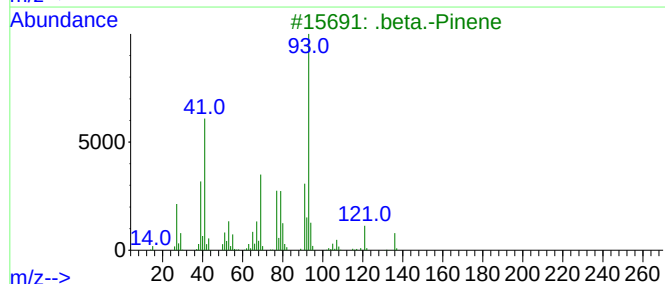
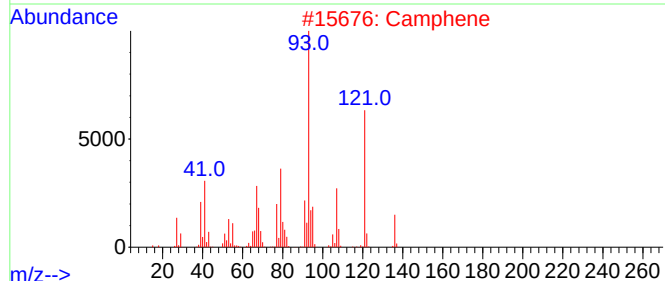
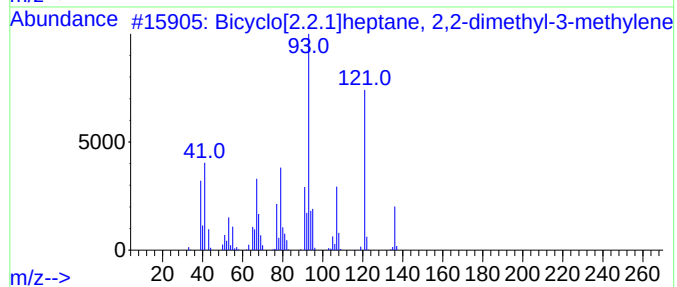
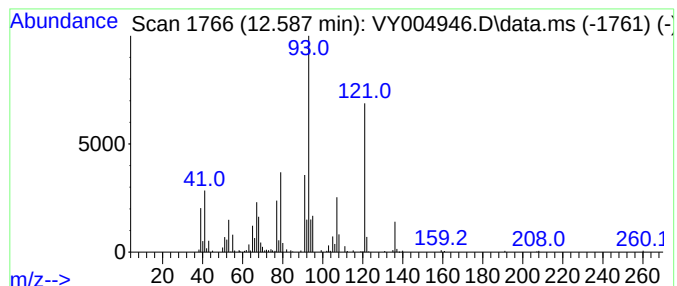
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060221S.M  
Quant Title : SW846 8260

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

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Peak Number 2 Bicyclo[2.2.1]heptane, 2,2-... Concentration Rank 3

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 12.586 | 6.60 ug/l | 134388 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Bicyclo[2.2.1]heptane, 2,2-dimet... | 136 | C10H16  | 005794-04-7 | 94   |
| 2    |    |   | Camphene                            | 136 | C10H16  | 000079-92-5 | 94   |
| 3    |    |   | .beta.-Pinene                       | 136 | C10H16  | 000127-91-3 | 80   |
| 4    |    |   | 1,3-Cyclohexadiene, 1-methyl-4-(... | 136 | C10H16  | 000099-86-5 | 74   |
| 5    |    |   | Santolina triene                    | 136 | C10H16  | 002153-66-4 | 72   |



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Instrument :  
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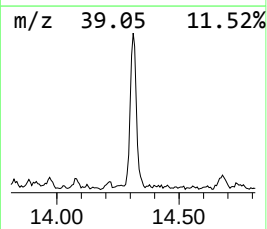
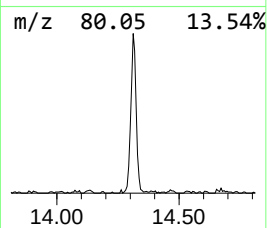
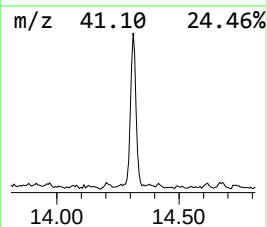
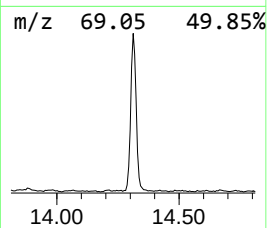
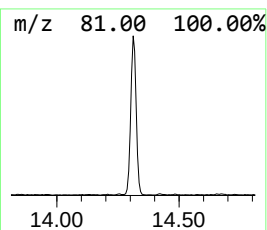
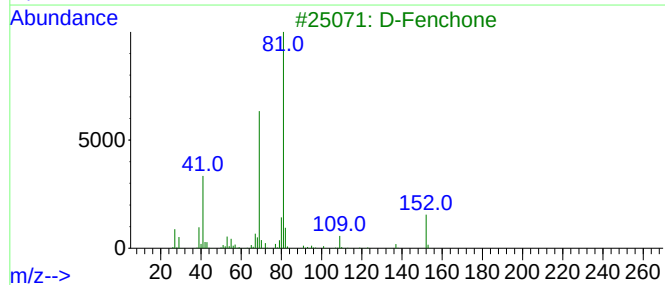
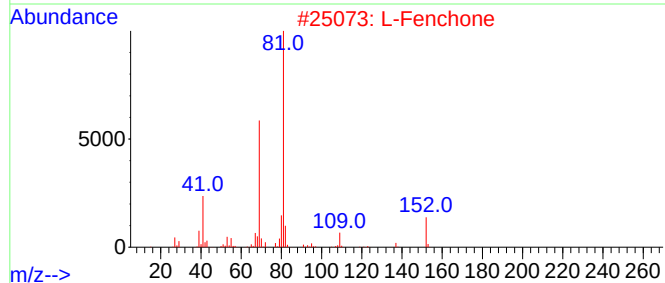
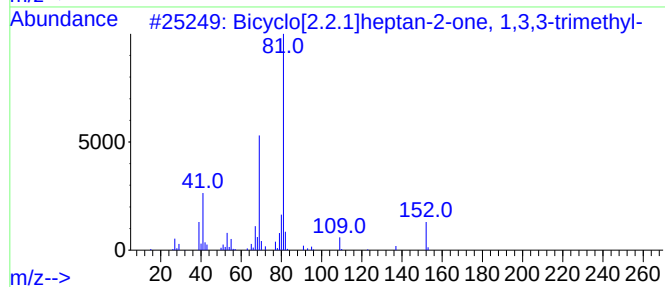
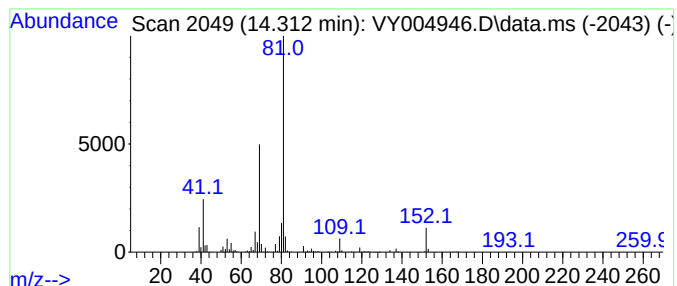
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060221S.M  
Quant Title : SW846 8260

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

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Peak Number 3 Bicyclo[2.2.1]heptan-2-one,... Concentration Rank 1

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.312 | 16.70 ug/l | 339908 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Bicyclo[2.2.1]heptan-2-one, 1,3,...   | 152 | C10H16O | 001195-79-5 | 95   |
| 2    |    |   | L-Fenchone                            | 152 | C10H16O | 007787-20-4 | 94   |
| 3    |    |   | D-Fenchone                            | 152 | C10H16O | 004695-62-9 | 91   |
| 4    |    |   | 2,4-Decadienal, (E,E)-                | 152 | C10H16O | 025152-84-5 | 59   |
| 5    |    |   | Ethanone, 1-(2-methyl-2-cyclopentyl)- | 124 | C8H12O  | 001767-84-6 | 42   |



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18-B11(4-6)

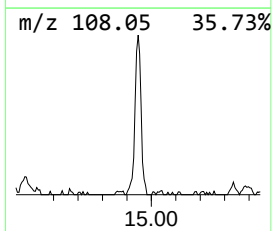
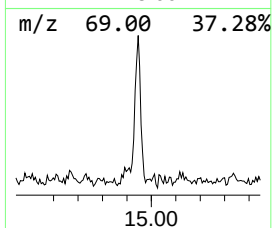
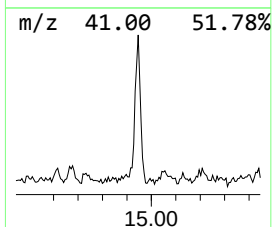
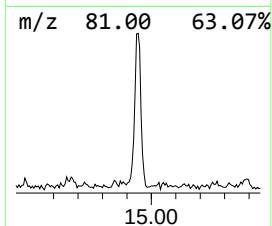
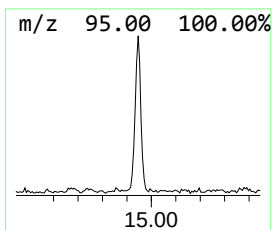
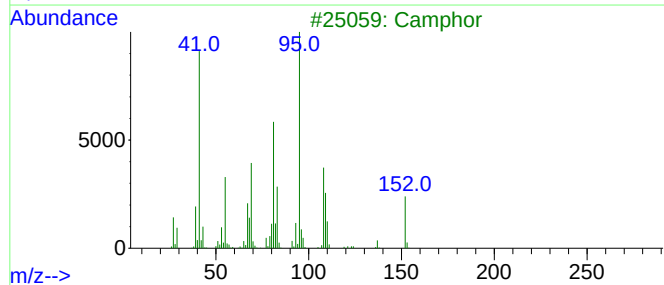
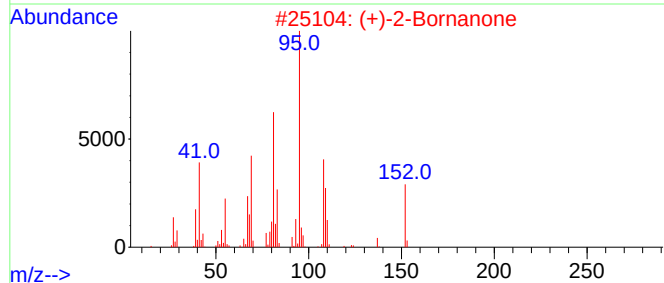
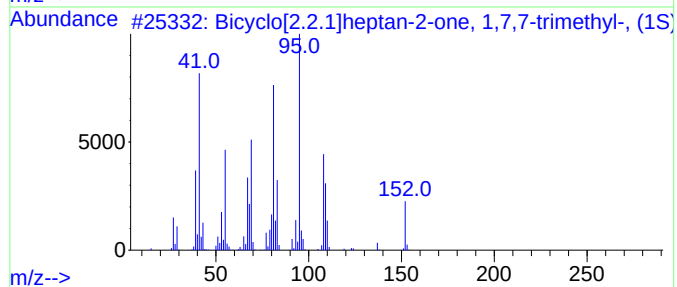
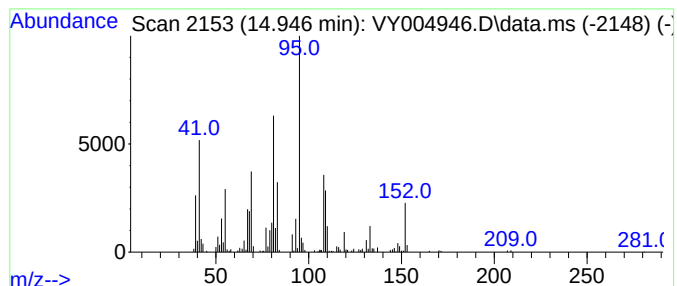
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Quant Title : SW846 8260

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

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Peak Number 4 Bicyclo[2.2.1]heptan-2-one,... Concentration Rank 4

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 14.946 | 5.82 ug/l | 118458 | 1,4-Dichlorobenzene-d4 | 13.428 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-48-2 | 93   |
| 2    |    |   | (+)-2-Bornanone                     | 152 | C10H16O | 000464-49-3 | 93   |
| 3    |    |   | Camphor                             | 152 | C10H16O | 000076-22-2 | 93   |
| 4    |    |   | 5,7-Octadien-4-one, 2,6-dimethyl... | 152 | C10H16O | 006752-80-3 | 47   |
| 5    |    |   | 2-Butanone, 4-(5-methyl-2-furanyl)- | 152 | C9H12O2 | 013679-56-6 | 43   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY060321\  
Data File : VY004946.D  
Acq On : 03 Jun 2021 18:55  
Operator : SY/MD  
Sample : M2589-16  
Misc : 14.78G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
18-B11(4-6)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060221S.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 |
| Cyclohexene,1-(... | 12.391 | 8.3     | ug/l  | 178997   | 3                     | 11.495 | 1081840 | 50.0 |
| Bicyclo[2.2.1]h... | 12.586 | 6.6     | ug/l  | 134388   | 4                     | 13.428 | 1017400 | 50.0 |
| Bicyclo[2.2.1]h... | 14.312 | 16.7    | ug/l  | 339908   | 4                     | 13.428 | 1017400 | 50.0 |
| Bicyclo[2.2.1]h... | 14.946 | 5.8     | ug/l  | 118458   | 4                     | 13.428 | 1017400 | 50.0 |