

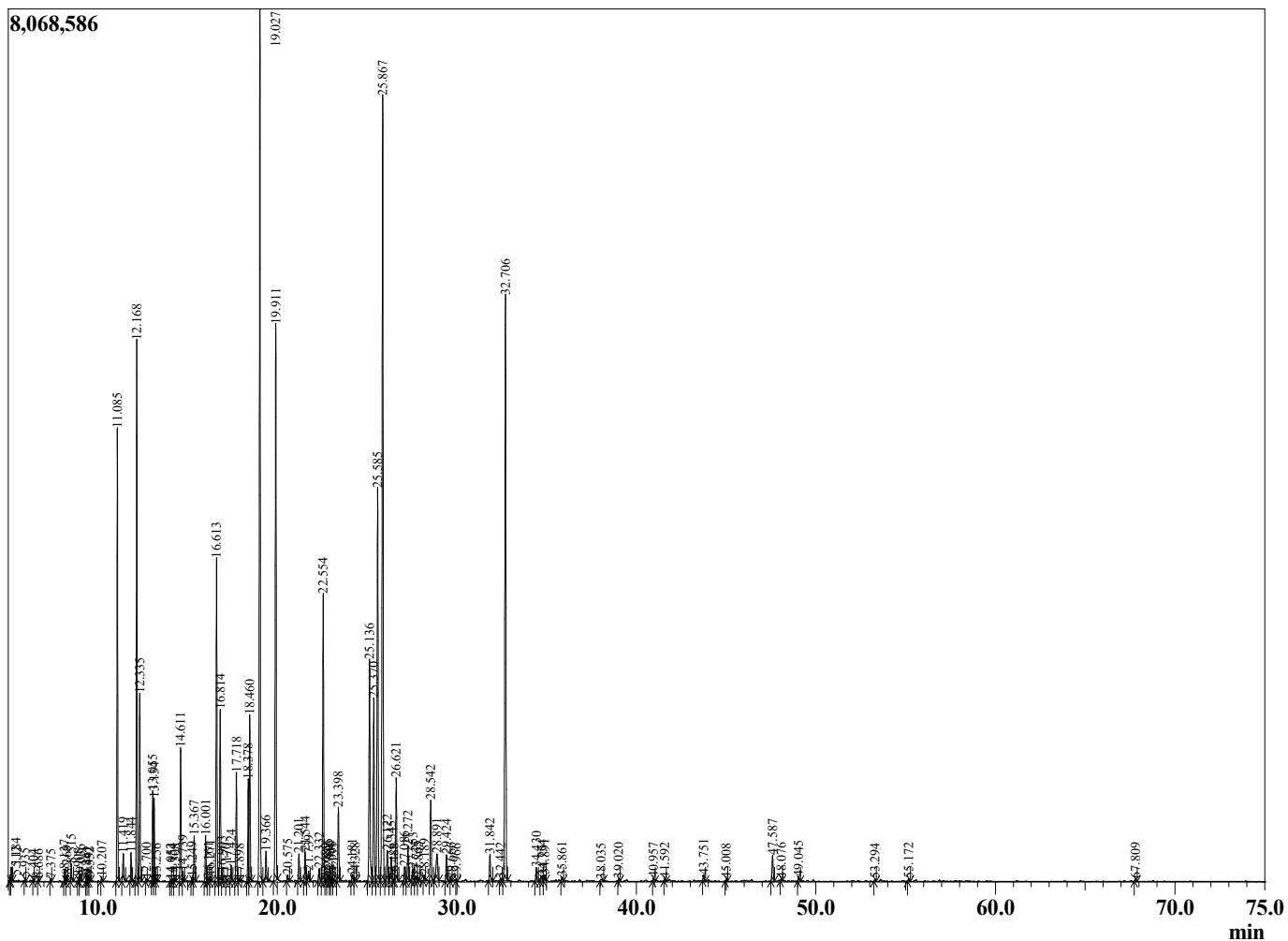
Sample Information

Sample Type : Essential Oil  
 Sample Name : Anthemis nobilis  
 Injection Volume : 0.10

Chamomile Roman  
 Lot# USN18-NH  
 Country: USA



Chromatogram Anthemis nobilis



| R.Time | Name                                | Area% |
|--------|-------------------------------------|-------|
| 3.703  | Isobutyl alcohol                    | 0.03  |
| 4.017  | 3-Methyl-2-Butanone                 | 0.04  |
| 5.112  | 3-Methyl-1-Butanol                  | 0.04  |
| 5.184  | 2-Methylbutanol                     | 0.10  |
| 5.935  | Isobutyl Acetate                    | 0.03  |
| 6.404  | 1-Octene                            | 0.02  |
| 6.686  | Hexanal                             | 0.02  |
| 7.375  | Methyl Tiglate                      | 0.02  |
| 8.137  | 3-Methylpentanol                    | 0.12  |
| 8.269  | Ethyl 2-Methybutyrate               | 0.06  |
| 8.515  | 3-trans-Hexenol                     | 0.19  |
| 8.908  | 2-trans-Hexenol                     | 0.05  |
| 9.036  | Hexanol                             | 0.09  |
| 9.361  | Isoamyl Acetate                     | 0.06  |
| 9.442  | 2-Methylbutyl acetate               | 0.06  |
| 9.552  | Propyl methacrylate                 | 0.04  |
| 10.207 | Unidentified                        | 0.05  |
| 11.085 | Isobutyl Isobutyrate                | 4.67  |
| 11.419 | Prenyl acetate                      | 0.42  |
| 11.844 | 2,5,8-Trimethyl nonane              | 0.31  |
| 12.168 | alpha-Pinene                        | 5.92  |
| 12.335 | Isobutyl Methacrylic acid           | 2.02  |
| 12.700 | Propyl 2-Methylbutyrate             | 0.03  |
| 13.055 | Camphene                            | 1.04  |
| 13.134 | 3-Methylcyclohexanone               | 0.92  |
| 13.256 | Unidentified                        | 0.03  |
| 14.052 | Isopentyl Propanoate                | 0.02  |
| 14.154 | 2-Methylbutylpropanoate             | 0.02  |
| 14.308 | Sabinene                            | 0.02  |
| 14.611 | beta-Pinene                         | 1.69  |
| 14.739 | Unidentified                        | 0.13  |
| 15.249 | Myrcene                             | 0.08  |
| 15.367 | propyl-Angelate                     | 0.55  |
| 16.001 | Isobutyl 2-methylbutyrate           | 0.58  |
| 16.161 | Hex-(3Z)-enyl Acetate               | 0.06  |
| 16.271 | Isobutyl Isovalerate                | 0.07  |
| 16.613 | Isopentyl Isobutyrate               | 4.10  |
| 16.814 | 2-Methylbutyl isobutyrate           | 2.20  |
| 16.903 | 2,2-Dimethylpropanoic anhydride     | 0.09  |
| 17.170 | Allyl isovalerate                   | 0.02  |
| 17.424 | para-Cymene                         | 0.21  |
| 17.718 | Limonene                            | 1.37  |
| 17.898 | 1,8-Cineole                         | 0.03  |
| 18.378 | Pentyl methacrylate                 | 1.35  |
| 18.460 | Isopentyl methacrylate              | 2.11  |
| 19.027 | Isobutyl angelate                   | 12.24 |
| 19.366 | Prenyl isobutyrate                  | 0.42  |
| 19.911 | Methyllyl angelate                  | 7.85  |
| 20.575 | Hexyl propanoate                    | 0.08  |
| 21.201 | Camphenilone                        | 0.37  |
| 21.544 | Butyl Angelate                      | 0.40  |
| 21.739 | Isobutyl tiglate                    | 0.16  |
| 22.332 | Isopentyl 2-methyl butanoate        | 0.20  |
| 22.554 | 2-Methylbutyl 2-Methylbutyrate      | 4.10  |
| 22.689 | Nonanal                             | 0.03  |
| 22.845 | But-3-enyl (E)-2-methylbut-2-enoate | 0.10  |

| R.Time | Name  | Area%  |
|--------|---|--------|
| 22.916 | 2-Methylbutyl Isovalerate                   | 0.06   |
| 23.008 | 2-Methylpropyl Hexanoate                    | 0.05   |
| 23.135 | Unidentified                                | 0.02   |
| 23.398 | 3-Methylamyl Isobutyrate                    | 1.08   |
| 24.181 | alpha-Campholenal                           | 0.11   |
| 24.328 | Unidentified                                | 0.05   |
| 25.136 | trans-Pinocarveol                           | 3.46   |
| 25.370 | Butanoic Acid Ester                         | 2.78   |
| 25.585 | Isoamyl Angelate                            | 5.97   |
| 25.867 | Isoamyl tiglate                             | 12.30  |
| 26.122 | Camphene hydrate                            | 0.49   |
| 26.345 | Amyl angelate isomer                        | 0.42   |
| 26.488 | Unidentified                                | 0.03   |
| 26.621 | Pinocarpone                                 | 1.52   |
| 27.086 | 3-cis-Hexenyl butanoate                     | 0.21   |
| 27.272 | Borneol                                     | 0.52   |
| 27.553 | Isopinocampone                              | 0.21   |
| 27.735 | Unidentified                                | 0.08   |
| 27.865 | Unidentified                                | 0.07   |
| 28.189 | Unidentified                                | 0.08   |
| 28.542 | 2-Methyl-2-butene angelate                  | 1.24   |
| 28.891 | Myrtenal                                    | 0.67   |
| 29.424 | 3-Methyl-3-methylpentyl butanoate           | 0.40   |
| 29.666 | Unidentified                                | 0.03   |
| 29.966 | Unidentified                                | 0.02   |
| 31.842 | 2-Hydroxy-2-methyl-but-3-enyl 2-methyl-2-ci | 0.42   |
| 32.442 | Unidentified                                | 0.04   |
| 32.706 | 4-Methyl amyl angelate                      | 9.24   |
| 34.430 | cis-3-Hexenyl Tiglate                       | 0.20   |
| 34.754 | Octen-3-ol butanoate                        | 0.10   |
| 34.891 | Hexyl Angelate                              | 0.10   |
| 35.861 | 3-Methylpentyl 2-Methyl Tiglate             | 0.06   |
| 38.035 | Unidentified                                | 0.05   |
| 39.020 | 7-epi-Silphiperfol-5-ene                    | 0.04   |
| 40.957 | alpha-Copaene                               | 0.05   |
| 41.592 | Unidentified                                | 0.04   |
| 43.751 | beta-Caryophyllene                          | 0.09   |
| 45.008 | Unidentified                                | 0.03   |
| 47.587 | beta-Copaene                                | 0.43   |
| 48.076 | alpha-Guaiene                               | 0.04   |
| 49.045 | trans,trans-alpha-Farnesene                 | 0.07   |
| 53.294 | Spathulenol                                 | 0.03   |
| 55.172 | Copaborneol                                 | 0.04   |
| 67.809 | Phytone                                     | 0.04   |
|        |   | 100.00 |