

## Sample Information

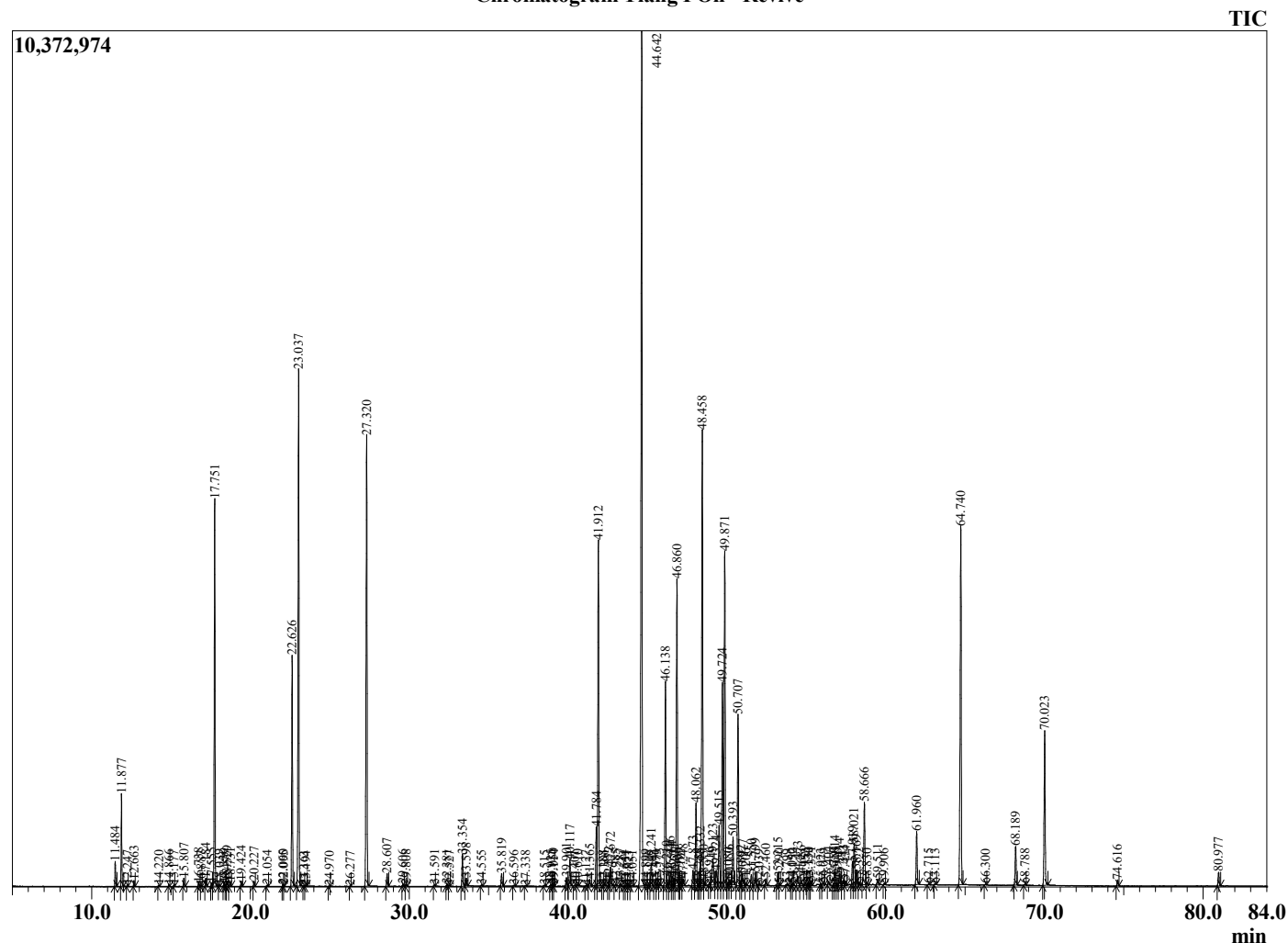
Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 9/1/2022 5:05:17 PM  
 Sample Type : Essential Oil  
 Sample Name : Ylang I Oil - Revive  
 Sample ID : 1L  
 Injection Volume : 0.10  
 Instrument ID : GC-3



## Peak Report TIC

| R.Time | Name                                        | Area% |
|--------|---------------------------------------------|-------|
| 11.484 | Amyl acetate                                | 0.26  |
| 11.877 | Prenyl acetate                              | 0.95  |
| 12.247 | alpha-Thujene                               | 0.01  |
| 12.663 | alpha-Pinene                                | 0.06  |
| 14.220 | Benzaldehyde                                | 0.01  |
| 14.866 | Sabinene                                    | 0.02  |
| 15.177 | beta-Pinene                                 | 0.01  |
| 15.807 | Myrcene                                     | 0.11  |
| 16.738 | Hex-(3Z)-enyl acetate                       | 0.04  |
| 16.887 | alpha-Phellandrene                          | 0.01  |
| 17.184 | Hexyl acetate                               | 0.11  |
| 17.555 | alpha-Terpinene                             | 0.04  |
| 17.751 | para-Methyl anisole                         | 4.98  |
| 18.039 | para-Cymene                                 | 0.02  |
| 18.339 | Limonene                                    | 0.04  |
| 18.475 | beta-Phellandrene                           | 0.01  |
| 18.529 | 1,8-Cineole                                 | 0.07  |
| 18.731 | cis-beta-Ocimene                            | 0.05  |
| 19.424 | trans-beta-Ocimene                          | 0.07  |
| 20.227 | gamma-Terpinene                             | 0.06  |
| 21.054 | cis-Linalool oxide (furanoid) + para-Cresol | 0.02  |
| 22.060 | Terpinolene                                 | 0.02  |
| 22.095 | trans-Linalool oxide (furanoid)             | 0.02  |
| 22.626 | Methyl benzoate                             | 3.15  |
| 23.037 | Linalool                                    | 7.49  |
| 23.363 | Nonanal                                     | 0.00  |
| 23.494 | 2,4-Dimethylanisole                         | 0.01  |
| 24.970 | allo-Ocimene                                | 0.00  |
| 26.277 | Camphor                                     | 0.00  |
| 27.320 | Benzyl acetate                              | 7.07  |
| 28.607 | Terpinen-4-ol                               | 0.18  |
| 29.606 | alpha-Terpineol                             | 0.03  |
| 29.808 | Estragole                                   | 0.02  |
| 31.591 | Nerol                                       | 0.02  |
| 32.381 | 2,3-Dimethoxytoluene                        | 0.03  |
| 32.527 | Neral                                       | 0.01  |
| 33.354 | Geraniol                                    | 0.48  |
| 33.598 | 2-Phenethyl acetate                         | 0.12  |
| 34.555 | Geranial                                    | 0.02  |
| 35.819 | trans-Anethole                              | 0.19  |
| 36.596 | 1-Nitro-2-phenyl ethane                     | 0.01  |
| 37.338 | 4-Vinyl guaiaicol                           | 0.01  |
| 38.515 | Unidentified                                | 0.02  |
| 38.925 | delta-Elemene analogue                      | 0.03  |
| 39.050 | Unidentified                                | 0.04  |
| 39.114 | delta-Elemene                               | 0.02  |
| 39.901 | alpha-Cubebene                              | 0.13  |
| 40.117 | Eugenol                                     | 0.39  |
| 40.401 | Unidentified                                | 0.01  |
| 40.610 | Neryl acetate                               | 0.02  |
| 41.127 | Unidentified                                | 0.01  |
| 41.365 | alpha-Ylangene                              | 0.11  |
| 41.784 | alpha-Copaene                               | 0.95  |
| 41.912 | Geranyl acetate                             | 5.44  |
| 42.188 | Elemene analogue                            | 0.01  |
| 42.301 | Unidentified                                | 0.02  |
| 42.572 | beta-Cubebene                               | 0.06  |
| 42.672 | beta-Elemene                                | 0.32  |
| 42.985 | Unidentified                                | 0.02  |
| 43.287 | Methyleugenol                               | 0.04  |
| 43.544 | Cyperene                                    | 0.01  |
| 43.651 | cis-beta-Caryophyllene                      | 0.01  |

Chromatogram Ylang I Oil - Revive



## Comments:

The analysis of this Ylang Ylang I batch sample meets the expected chemical profile for authentic essential oil of *Cananga odorata*. No contamination or adulteration was detected. The results provided in this GCMS quality analysis reflect the chemical composition of the oil and lot referenced above on the date of analysis.

| R.Time | Name                                        | Area% |
|--------|---------------------------------------------|-------|
| 43.823 | Unidentified                                | 0.01  |
| 44.051 | beta-Maaliene                               | 0.02  |
| 44.642 | trans-beta-Caryophyllene                    | 15.74 |
| 44.899 | Unidentified                                | 0.02  |
| 45.106 | Unidentified                                | 0.01  |
| 45.241 | beta-Copaene                                | 0.36  |
| 45.496 | Unidentified                                | 0.02  |
| 45.573 | alpha-Guaiene                               | 0.02  |
| 45.775 | Aromadendrene                               | 0.03  |
| 46.138 | trans-Cinnamyl acetate                      | 3.17  |
| 46.210 | cis-Muurolo-3,5-diene                       | 0.11  |
| 46.446 | Cadina-3,5-diene                            | 0.25  |
| 46.564 | trans-Muurolo-3,5-diene                     | 0.17  |
| 46.671 | trans-beta-Farnesene                        | 0.12  |
| 46.860 | alpha-Humulene                              | 5.08  |
| 46.999 | Unidentified                                | 0.03  |
| 47.107 | cis-Cadina-1(6),4-diene                     | 0.06  |
| 47.248 | cis-Muurolo-4(14),5-diene                   | 0.13  |
| 47.873 | trans-Cadina-1(6),4-diene                   | 0.26  |
| 48.062 | gamma-Muuroloene                            | 1.39  |
| 48.255 | Unidentified                                | 0.02  |
| 48.332 | alpha-Amorphene                             | 0.30  |
| 48.458 | Germacrene D                                | 7.86  |
| 48.550 | gamma-Himachelene                           | 0.05  |
| 48.916 | Prenyl benzoate + Unidentified              | 0.05  |
| 49.123 | Viridiflorene + trans-Muurolo-4(14),5-diene | 0.65  |
| 49.324 | Bicyclogermacrene                           | 0.30  |
| 49.515 | alpha-Muuroloene                            | 1.02  |
| 49.724 | cis,trans-alpha-Farnesene                   | 3.43  |
| 49.871 | trans,trans-alpha-Farnesene                 | 5.50  |
| 50.080 | beta-Bisabolene                             | 0.04  |
| 50.176 | beta-Curcumene                              | 0.09  |
| 50.393 | gamma-Cadinene                              | 0.76  |
| 50.707 | delta-Cadinene                              | 2.87  |
| 50.892 | trans-Calamenene                            | 0.08  |
| 50.977 | Zonarene + Unidentified                     | 0.24  |
| 51.206 | trans-gamma-Bisabolene                      | 0.03  |
| 51.550 | trans-Cadina-1,4-diene                      | 0.18  |
| 51.799 | alpha-Cadinene                              | 0.21  |
| 52.039 | alpha-Calacorene                            | 0.04  |
| 52.460 | alpha-Elemol                                | 0.10  |
| 53.215 | trans-Nerolidol                             | 0.22  |
| 53.290 | Unidentified                                | 0.02  |
| 53.799 | (3Z)-3-Hexenyl benzoate                     | 0.03  |
| 54.090 | Caryophyllene alcohol                       | 0.03  |
| 54.152 | Unidentified                                | 0.03  |
| 54.473 | Caryophyllene oxide                         | 0.19  |
| 54.686 | Globulol                                    | 0.11  |
| 54.952 | Unidentified                                | 0.05  |
| 55.132 | Unidentified                                | 0.05  |
| 55.170 | Viridiflorol                                | 0.04  |
| 55.321 | Guaiol                                      | 0.06  |
| 55.923 | Rosifoliol                                  | 0.03  |
| 56.079 | Humulene epoxide II                         | 0.04  |
| 56.404 | 1,10-di-epi-Cubenol                         | 0.06  |
| 56.750 | Unidentified                                | 0.02  |
| 56.814 | Humulane-1,6-dien-3-ol                      | 0.25  |
| 56.940 | Unidentified                                | 0.03  |
| 57.114 | Epicubenol                                  | 0.21  |
| 57.343 | gamma-Eudesmol                              | 0.10  |
| 57.474 | Epicubenol analogue                         | 0.07  |
| 57.919 | epi-alpha-Cadinol                           | 0.39  |
| 58.021 | epi-alpha-Muurolool                         | 0.75  |

| R.Time | Name              | Area%  |
|--------|-------------------|--------|
| 58.169 | alpha-Muurolol    | 0.26   |
| 58.322 | Cadinol isomer    | 0.04   |
| 58.666 | Cadin-4-en-10-ol  | 1.53   |
| 58.830 | Unidentified      | 0.03   |
| 59.511 | Unidentified      | 0.11   |
| 59.906 | Unidentified      | 0.02   |
| 61.960 | (2E,6E)-Farnesol  | 0.86   |
| 62.715 | Unidentified      | 0.02   |
| 63.113 | (E,E)-Farnesal    | 0.01   |
| 64.740 | Benzyl benzoate   | 6.44   |
| 66.300 | Unidentified      | 0.02   |
| 68.189 | Farnesyl acetate  | 0.63   |
| 68.788 | Unidentified      | 0.03   |
| 70.023 | Benzyl salicylate | 2.61   |
| 74.616 | Geranyl benzoate  | 0.10   |
| 80.977 | Benzyl cinnamate  | 0.23   |
|        |                   | 100.00 |