

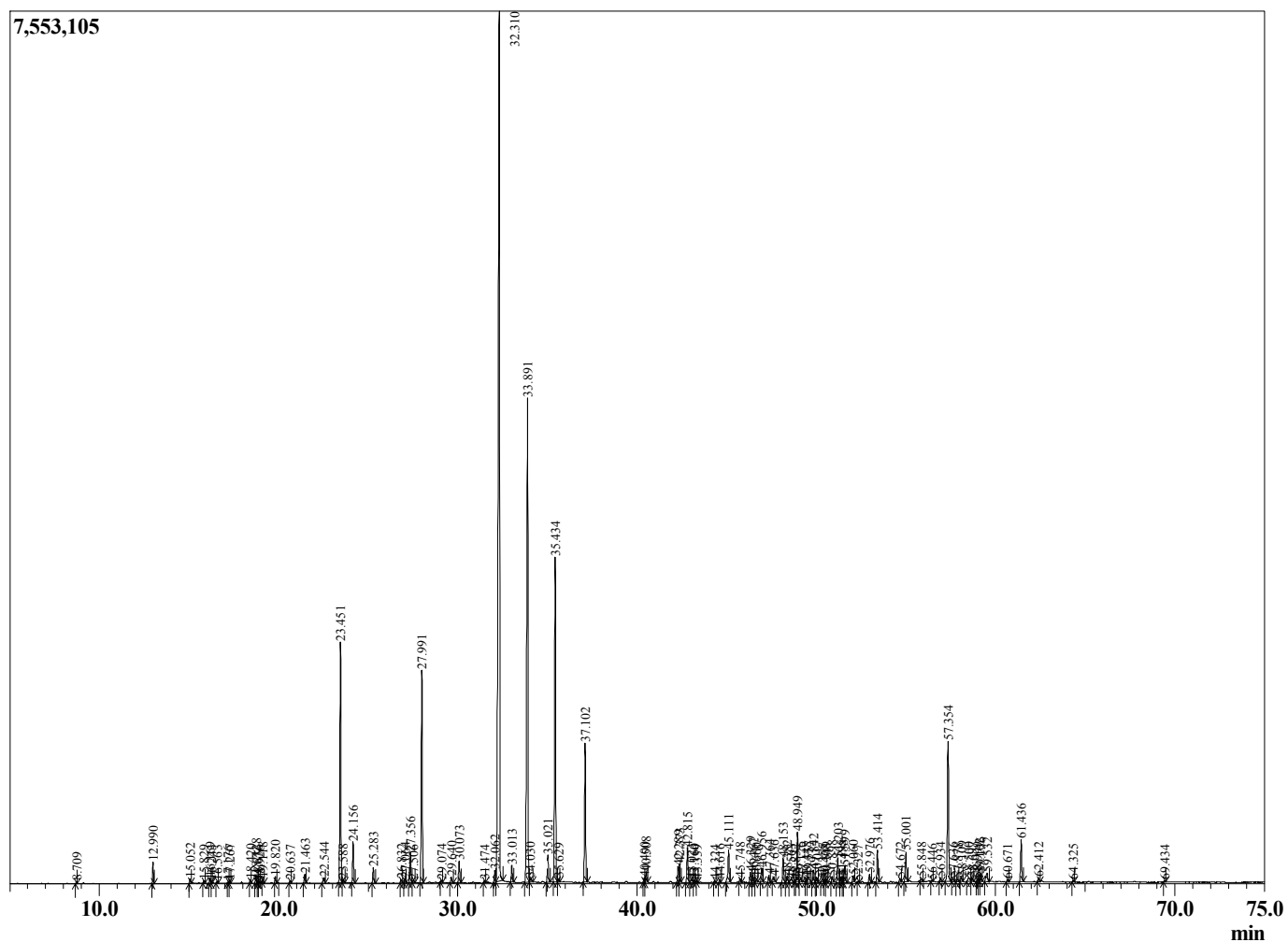
# Sample Information

Sample Type : Essential Oil  
Sample Name : Pelargonium graveolens  
Injection Volume : 0.10

Geranium Egypt  
Lot# EGN30-NT  
Country: Egypt



Chromatogram Pelargonium graveolens



Peak Report TIC

| R.Time | Name                             | Area% |
|--------|----------------------------------|-------|
| 8.709  | 3-Methyl pentanol                | 0.03  |
| 12.990 | alpha-Pinene                     | 0.43  |
| 15.052 | Bois de Rose oxide               | 0.11  |
| 15.829 | 6-Methyl hept-5-en-2-one         | 0.05  |
| 16.169 | Myrcene                          | 0.13  |
| 16.243 | Herboxide isomer                 | 0.04  |
| 16.563 | 2-Carene                         | 0.04  |
| 17.176 | Herboxide isomer                 | 0.03  |
| 17.267 | alpha-Phellandrene               | 0.06  |
| 18.420 | para-Cymene                      | 0.09  |
| 18.728 | Limonene                         | 0.19  |
| 18.836 | beta-Phellandrene                | 0.05  |
| 18.926 | Unidentified                     | 0.03  |
| 19.118 | cis-beta-Ocimene                 | 0.09  |
| 19.820 | trans-beta-Ocimene               | 0.15  |
| 20.637 | gamma-Terpinene                  | 0.05  |
| 21.463 | cis-Linalool oxide (furanoid)    | 0.23  |
| 22.544 | trans-Linalool oxide (furanoid)  | 0.18  |
| 23.451 | Linalool                         | 6.09  |
| 23.588 | Unidentified                     | 0.10  |
| 24.156 | cis-Rose oxide                   | 1.03  |
| 25.283 | trans-Rose oxide                 | 0.40  |
| 26.832 | Unidentified                     | 0.08  |
| 27.064 | Citronellal                      | 0.13  |
| 27.356 | Menthone                         | 0.81  |
| 27.506 | Unidentified                     | 0.09  |
| 27.991 | Isomenthone                      | 5.74  |
| 29.074 | Terpinen-4-ol                    | 0.06  |
| 29.640 | Isomenthol                       | 0.16  |
| 30.073 | alpha-Terpineol                  | 0.59  |
| 31.474 | Unidentified                     | 0.05  |
| 32.062 | Nerol                            | 0.32  |
| 32.310 | Citronellol                      | 32.08 |
| 33.013 | Neral                            | 0.44  |
| 33.891 | Geraniol                         | 15.33 |
| 34.030 | Unidentified                     | 0.14  |
| 35.021 | Geranial                         | 0.70  |
| 35.434 | Citronellyl formate              | 9.06  |
| 35.629 | Neryl formate                    | 0.07  |
| 37.102 | Geranyl formate                  | 3.79  |
| 40.400 | alpha-Cubebene                   | 0.13  |
| 40.508 | Citronellyl acetate              | 0.28  |
| 42.289 | alpha-Copaene                    | 0.46  |
| 42.373 | Geranyl acetate                  | 0.50  |
| 42.815 | beta-Bourbonene                  | 1.00  |
| 43.023 | alpha-Bourbonene                 | 0.10  |
| 43.160 | beta-Elemene                     | 0.05  |
| 43.339 | Phenethyl isobutyrate            | 0.03  |
| 44.324 | alpha-Gurjunene                  | 0.03  |
| 44.616 | Thymohydroquinone dimethyl ether | 0.08  |
| 45.111 | beta-Caryophyllene               | 1.03  |
| 45.748 | beta-Copaene                     | 0.10  |
| 46.329 | Citronellyl propionate           | 0.31  |
| 46.467 | 6,9-Guaiaadiene                  | 0.22  |
| 46.660 | Unidentified                     | 0.09  |
| 46.956 | Unidentified                     | 0.40  |

| R.Time | Name                          | Area%  |
|--------|-------------------------------|--------|
| 47.364 | alpha-Humulene                | 0.21   |
| 47.636 | Alloaromadendrene             | 0.16   |
| 48.153 | Geranyl propionate            | 0.70   |
| 48.382 | 10-beta-H-Cadina-1(6),4-diene | 0.23   |
| 48.563 | trans-Cadina-1(6),4-diene     | 0.17   |
| 48.832 | Unidentified                  | 0.05   |
| 48.949 | Germacrene D                  | 1.46   |
| 49.126 | Unidentified                  | 0.14   |
| 49.448 | beta-Selinene                 | 0.12   |
| 49.557 | Viridiflorene (Ledene)        | 0.27   |
| 49.842 | Bicyclogermacrene             | 0.40   |
| 50.017 | alpha-Murolene                | 0.16   |
| 50.355 | (E,E)-alpha-Farnesene         | 0.10   |
| 50.468 | 4-epi-cis-Dihydroagarofuran   | 0.08   |
| 50.549 | Geranyl isobutyrate           | 0.12   |
| 50.898 | gamma-Cadinene                | 0.16   |
| 51.203 | delta-Cadinene                | 0.74   |
| 51.395 | trans-Calamenene              | 0.17   |
| 51.488 | Zonarene                      | 0.16   |
| 51.599 | Citronellyl butyrate          | 0.48   |
| 52.060 | trans-Cadina-1,4-diene        | 0.16   |
| 52.327 | Eremophilene isomer           | 0.04   |
| 52.976 | Unidentified                  | 0.25   |
| 53.414 | Geranyl butyrate              | 0.90   |
| 54.672 | Spathulenol                   | 0.11   |
| 55.001 | 2-Phenylethyl tiglate         | 0.86   |
| 55.848 | Neryl (S)-2-methylbutyrate    | 0.11   |
| 56.446 | Eudesm-5-en-11-ol             | 0.04   |
| 56.934 | 1,10-di-epi-Cubenol           | 0.12   |
| 57.354 | 10-epi-gamma-Eudesmol         | 4.30   |
| 57.636 | 1-epi-Cubenol                 | 0.11   |
| 57.878 | gamma-Eudesmol                | 0.07   |
| 58.109 | Eremoligenol isomer           | 0.11   |
| 58.500 | Unidentified                  | 0.20   |
| 58.697 | Unidentified                  | 0.11   |
| 58.999 | Geranyl valerate              | 0.08   |
| 59.102 | Valerianol                    | 0.20   |
| 59.156 | alpha-Eudesmol                | 0.27   |
| 59.532 | (E)-Citronellyl tiglate       | 0.39   |
| 60.671 | (Z)-Citronellyl tiglate       | 0.06   |
| 61.436 | Geranyl tiglate               | 1.19   |
| 62.412 | (2E,6E)-Farnesol              | 0.11   |
| 64.325 | Geranyl hexanoate             | 0.03   |
| 69.434 | Unidentified                  | 0.04   |
|        |                               | 100.00 |