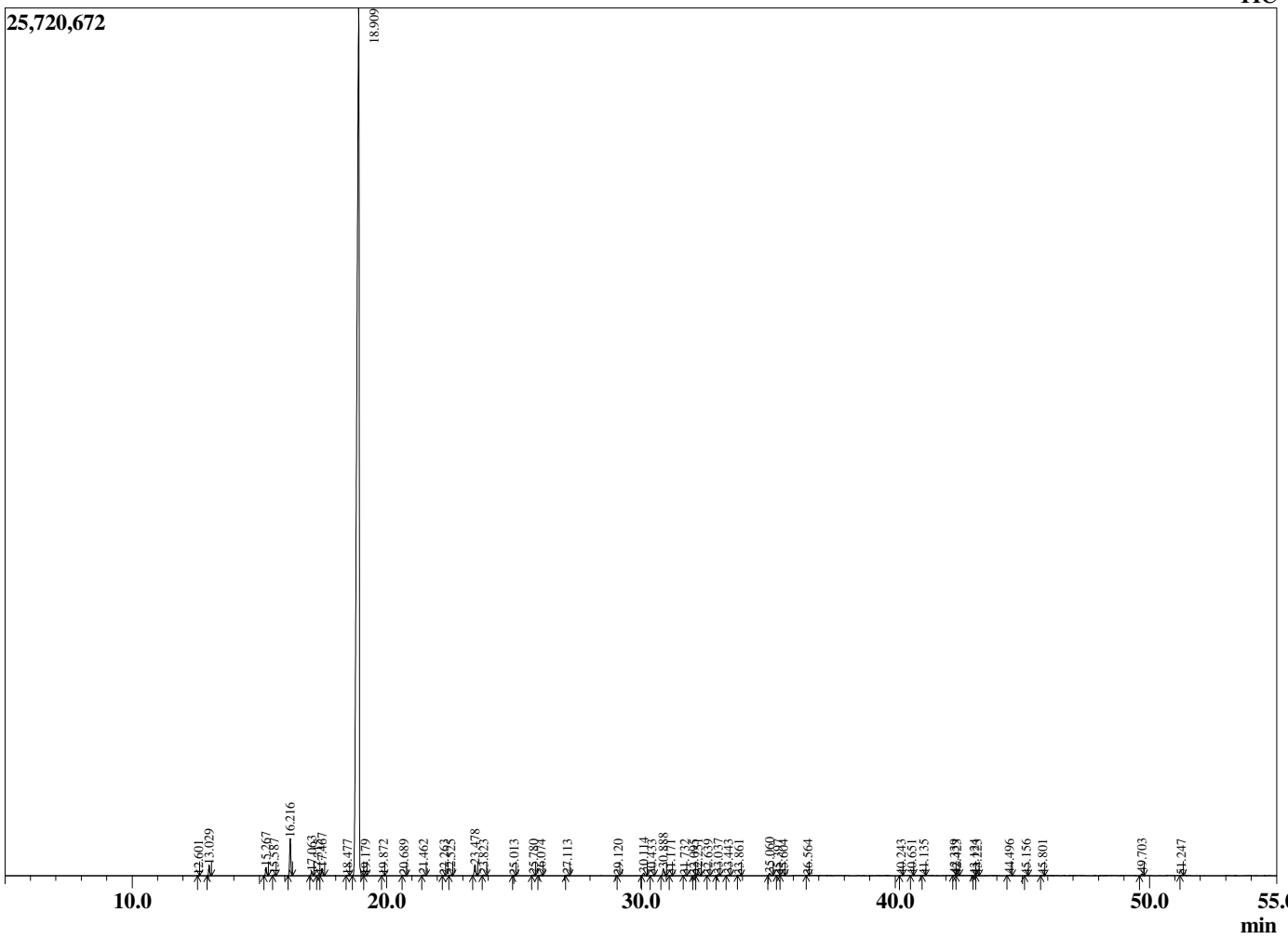
Sample Information

Analyzed by : Dr. Robert S. Pappas
Analyzed : 5/15/2020 2:16:01 AM
Sample Type : Essential Oil
Sample Name : Blood Orange - Barefut
Sample ID : 0105
Injection Volume : 0.10
Instrument ID: : GC-3

Chromatogram Blood Orange - Barefut



Peak Report TIC

R.Time	Name	Area%
12.601	alpha-Thujene	0.01
13.029	alpha-Pinene	0.53
15.267	Sabinene	0.45
15.587	beta-Pinene	0.06
16.216	Myrcene	2.01
17.063	Octanal	0.23
17.315	alpha-Phellandrene	0.04
17.467	delta-3-Carene	0.41
18.477	para-Cymene	0.03
18.909	Limonene	93.45
19.179	cis-beta-Ocimene	0.01
19.872	trans-beta-Ocimene	0.02
20.689	gamma-Terpinene	0.03
21.462	Octanol	0.07
22.263	Isoterpinolene	0.01
22.525	Terpinolene	0.06
23.478	Linalool	0.66
23.823	Nonanal	0.05
25.013	trans-para-Mentha-2,8-dienol	0.03
25.780	cis-Limonene oxide	0.05
26.074	trans-Limonene oxide	0.08
27.113	Citronellal	0.06
29.120	Terpinen-4-ol	0.01
30.114	alpha-Terpineol	0.18
30.433	Unidentified	0.02
30.888	Decanal	0.46
31.171	Octyl acetate	0.01
31.732	trans-Carveol	0.03
32.095	Nerol	0.02
32.251	Citronellol	0.09
32.639	cis-Carveol	0.01
33.037	Neral	0.07
33.443	Carvone	0.06
33.861	Nerol	0.03
35.060	Geranial	0.16
35.397	Decanol	0.02
35.604	Perillaldehyde	0.02
36.564	Thymol	0.03
40.243	Limonene glycol	0.02
40.651	Unidentified	0.02
41.135	Neryl acetate	0.03
42.339	alpha-Copaene	0.04
42.423	Geranyl acetate	0.02
43.124	beta-Cubebene	0.02
43.223	beta-Elemene	0.02
44.496	Dodecanal	0.05
45.156	beta-Caryophyllene	0.04
45.801	beta-Copaene	0.03
49.703	Valencene	0.12
51.247	delta-Cadinene	0.02
		100.00

Comments:

The analysis of this Blood Orange batch sample meets the expected chemical profile for authentic essential oil of *Citrus sinensus*. 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.