

Sample Information

Analyzed by : Dr. Robert S. Pappas
 Analyzed : 5/30/2018 1:47:15 AM
 Sample Type : Essential Oil
 Sample Name : Wild Orange
 Sample ID : B0514B [1-3]
 Injection Volume : 0.10
 Instrument ID: : GC-2

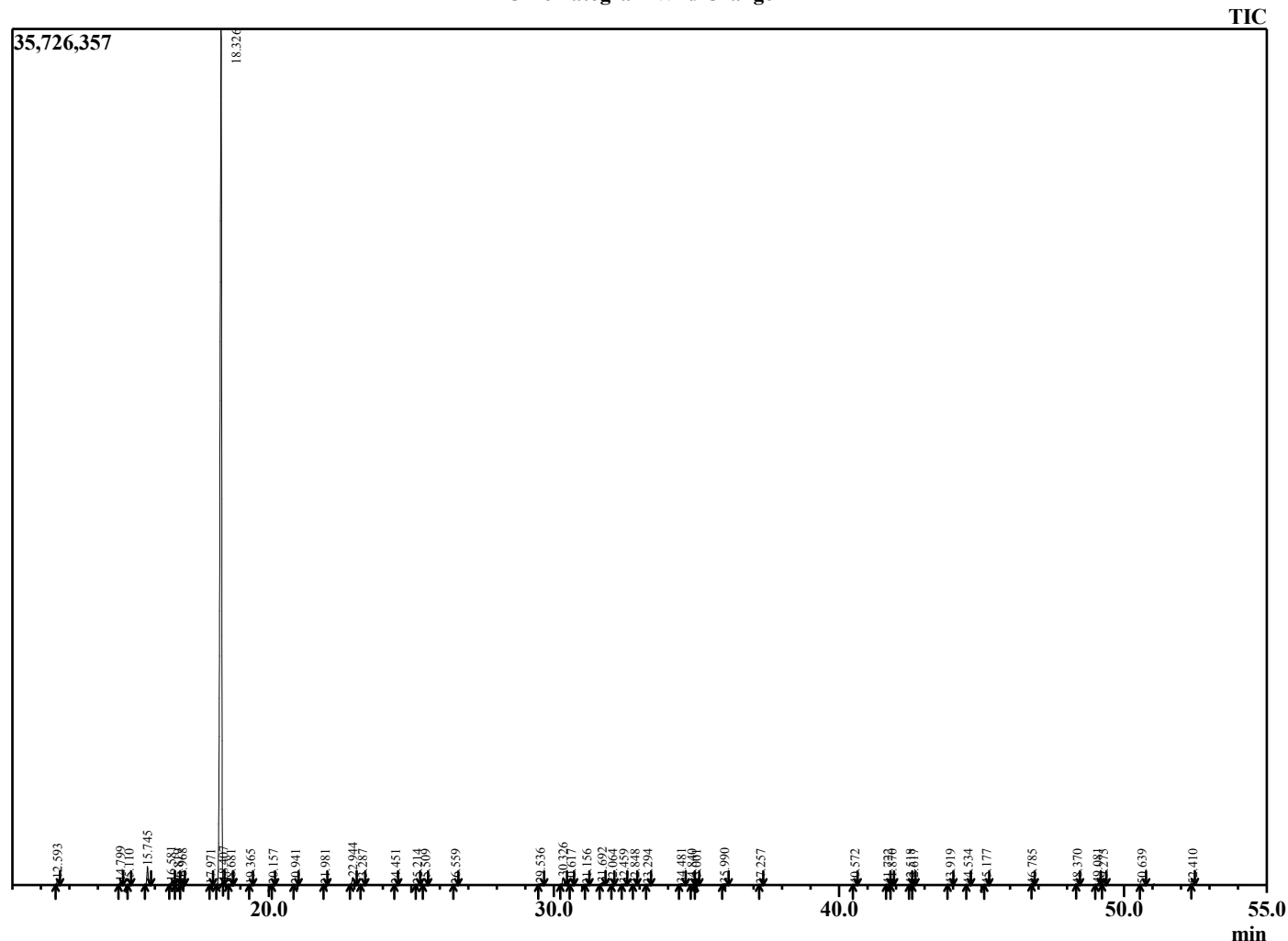
This report is valid for 1 year from the Analyzed date.



Peak Report TIC

R.Time	Name	Area%
12.593	alpha-Pinene	0.48
14.799	Sabinene	0.26
15.110	beta-Pinene	0.03
15.745	Myrcene	1.63
16.581	Octanal	0.29
16.819	alpha-Phellandrene	0.04
16.968	delta-3-Carene	0.12
17.971	para-Cymene	0.01
18.326	Limonene	93.90
18.407	beta-Phellandrene	0.03
18.681	cis-beta-Ocimene	0.02
19.365	trans-beta-Ocimene	0.01
20.157	gamma-Terpinene	0.01
20.941	n-Octanol	0.04
21.981	Terpinolene	0.02
22.944	Linalool	0.75
23.287	Nonanal	0.04
24.451	trans-para-Mentha-2,8-dienol	0.02
25.214	cis-Limonene oxide	0.03
25.509	trans-Limonene oxide	0.04
26.559	Citronellal	0.06
29.536	alpha-Terpineol	0.13
30.326	Decanal	0.78
30.617	Octyl acetate	0.02
31.156	trans-Carveol	0.02
31.692	Citronellol	0.26
32.064	Unidentified	0.01
32.459	Neral	0.08
32.848	Carvone	0.04
33.294	Linalyl acetate	0.03
34.481	Geranial	0.15
34.840	Decanol	0.01
35.001	Perillaldehyde	0.03
35.990	Thymol	0.12
37.257	Undecanal	0.02
40.572	Neryl acetate	0.03
41.722	alpha-Copaene	0.04
41.870	Geranyl acetate	0.01
42.518	beta-Cubebene	0.02
42.617	beta-Elemene	0.02
43.919	Dodecanal	0.06
44.534	beta-Caryophyllene	0.03
45.177	beta-Copaene	0.05
46.785	Unidentified	0.01
48.370	Germacrene D	0.01
49.081	Valencene	0.12
49.275	Unidentified	0.01
50.639	delta-Cadinene	0.07
52.410	Elemol	0.01
		100.00

Chromatogram Wild Orange



Comments:

The analysis of this Wild Orange batch sample meets the expected chemical profile for authentic essential oil of Citrus sinensis. No contamination or adulteration was detected.