

Sample Information

Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 1/23/2019 5:34:07 PM  
 Sample Type : Essential Oil  
 Sample Name : Cinnamon Bark - Barefut  
 Sample ID : cinnamon-0106  
 Injection Volume : 0.10  
 Instrument ID : GC-3

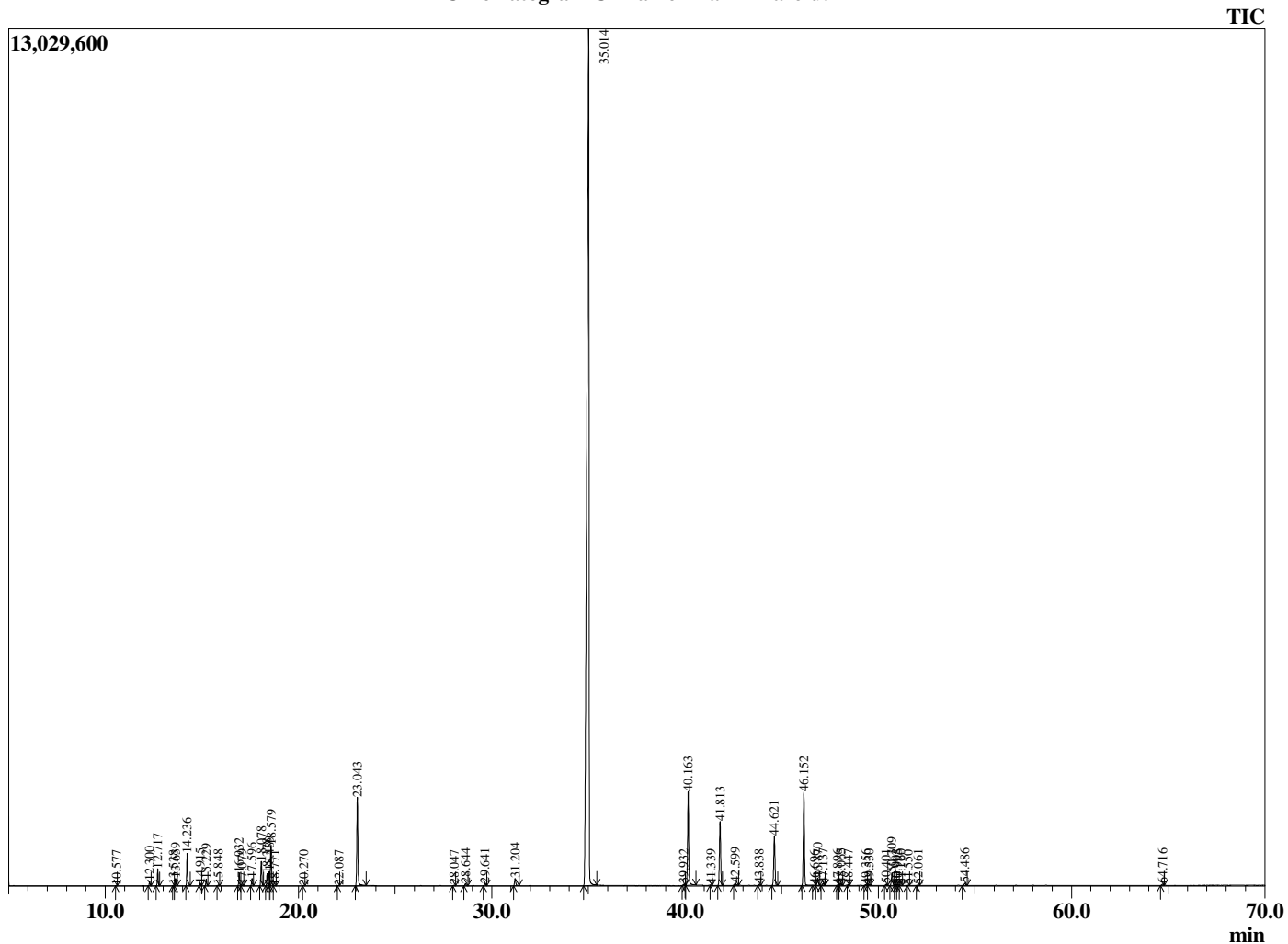


Peak Report TIC

R.Time	Name	Area%
10.577	Styrene	0.01
12.300	alpha-Thujene	0.15
12.717	alpha-Pinene	0.58
13.538	alpha-Fenchene	0.02
13.639	Camphene	0.27
14.236	Benzaldehyde	1.14
14.915	Sabinene	0.08
15.229	beta-Pinene	0.24
15.848	Myrcene	0.03
16.932	alpha-Phellandrene	0.49
17.079	delta-3-Carene	0.04
17.596	alpha-Terpinene	0.29
18.078	para-Cymene	0.98
18.378	Limonene	0.47
18.489	beta-Phellandrene	0.54
18.579	1,8-cineole	1.59
18.771	cis-beta-Ocimene	0.01
20.270	gamma-Terpinene	0.01
22.087	Terpinolene	0.02
23.043	Linalool	3.85
28.047	Borneol	0.02
28.644	Terpinen-4-ol	0.10
29.641	alpha-Terpineol	0.11
31.204	(Z)-Cinnamaldehyde	0.35
35.014	(E)-Cinnamaldehyde	72.25
39.932	alpha-Cubebene	0.07
40.163	Eugenol	4.25
41.339	Unidentified	0.03
41.813	alpha-Copaene	3.12
42.599	beta-Cubebene	0.16
43.838	alpha-Gurjunene	0.06
44.621	beta-Caryophyllene	2.44
46.152	(E)-Cinnamyl acetate	4.45
46.696	Unidentified	0.02
46.870	alpha-Humulene	0.37
47.137	Alloaromadendrene	0.10
47.896	10-beta-H-Cadina-1(6),4-diene	0.03
48.065	trans-Cadina-1(6),4-diene	0.08
48.447	Germacrene D	0.04
49.356	Unidentified	0.05
49.530	alpha-Muurolene	0.05
50.401	Eugenyl acetate	0.06
50.709	delta-Cadinene	0.62
50.902	cis-Calamenene	0.05
50.995	Zonarene	0.04
51.160	ortho-Methoxycinnamaldehyde	0.03
51.550	trans-Cadine-1,4-diene	0.02
52.061	alpha-Calacorene	0.03
54.486	Caryophyllene oxide	0.14
64.716	Benzyl benzoate	0.08
		100.00

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

Chromatogram Cinnamon Bark - Barefut



Comments:

The analysis of this Cinnamon Bark batch sample meets the expected chemical profile for authentic essential oil of *Cinnamomum zeylanicum*. No contamination or adulteration was detected.