

Sample Information

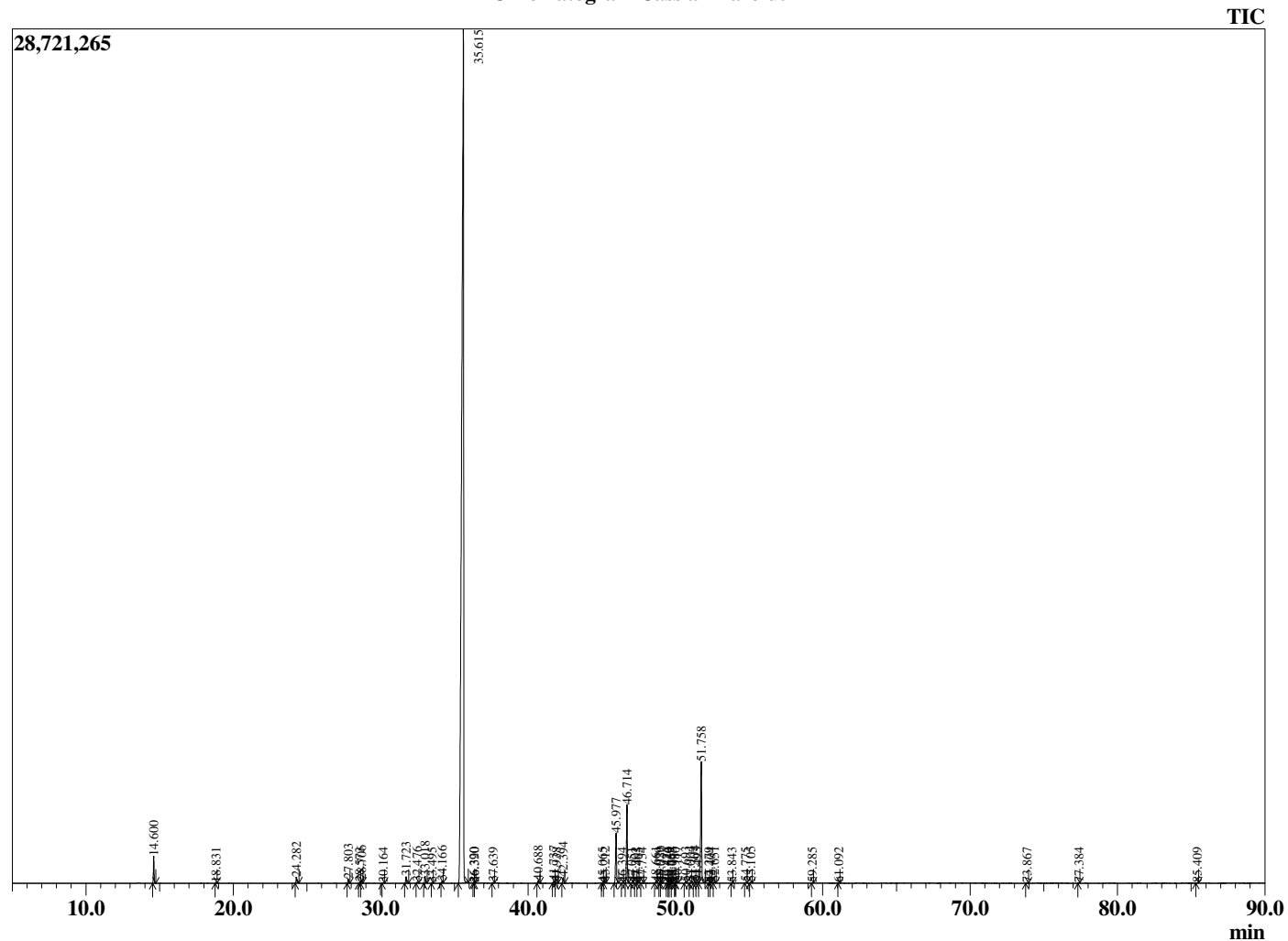
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 2/3/2020 8:24:09 PM
 Sample Type : Essential Oil
 Sample Name : Cassia - Barefut
 Sample ID : 0108
 Injection Volume : 0.10
 Instrument ID : GC-3



Peak Report TIC

R.Time	Name	Area%
14.600	Benzaldehyde	0.91
18.831	Limonene	0.02
24.282	Phenethyl alcohol	0.26
27.803	Hydrocinnamaldehyde	0.19
28.573	Borneol	0.03
28.706	2-Methylbenzofuran	0.12
30.164	alpha-Terpineol	0.02
31.723	(Z)-Cinnamaldehyde	0.28
32.476	Hydrocinnamyl alcohol	0.05
33.018	ortho-Anisaldehyde	0.31
33.495	Carvone	0.01
34.166	2-Phenethyl acetate	0.09
35.615	(E)-Cinnamaldehyde	84.22
36.320	Bornyl acetate	0.01
36.390	(E)-Anethole	0.01
37.639	(E)-Cinnamyl alcohol	0.03
40.688	Eugenol	0.12
41.737	Unidentified	0.09
41.938	Isoledene	0.04
42.394	alpha-Copaene	0.28
45.065	Cinnamic Acid	0.02
45.212	beta-Caryophyllene	0.06
45.977	Coumarin	2.44
46.394	Aromadendrene	0.01
46.714	(E)-Cinnamyl acetate	3.44
47.051	ortho-Methoxycinnamaldehyde	0.03
47.302	Unidentified	0.02
47.465	alpha-Humulene	0.01
47.734	Alloaromadendrene	0.04
48.661	trans-Cadina-1(6),4-diene	0.06
48.929	alpha-Amorphene	0.01
49.030	Ar-Curcumene	0.04
49.424	Unidentified	0.01
49.540	Valencene	0.01
49.659	Viridiflorene (Ledene)	0.02
49.765	Unidentified	0.01
49.980	Unidentified	0.01
50.117	alpha-Muurolene	0.06
50.693	beta-Bisabolene	0.06
51.004	gamma-Cadinene	0.04
51.304	delta-Cadinene	0.10
51.493	trans-Calamenene	0.03
51.758	ortho-Methoxycinnamaldehyde	6.17
52.279	Unidentified	0.01
52.404	Eremophilene isomer	0.01
52.651	trans-alpha-Bisabolene + Unidentified	0.06
53.843	trans-Nerolidol	0.01
54.775	Spathulenol	0.04
55.105	Caryophyllene oxide	0.04
59.285	Unidentified	0.01
61.092	alpha-Bisabolol	0.01
73.867	Rimuene	0.01
77.384	Unidentified	0.01
85.409	Phenethyl cinnamate	0.01
		100.00

Chromatogram Cassia - Barefut



Comments:

The analysis of this Cassia batch sample meets the expected chemical profile for authentic essential oil of *Cinnamomum cassia*. 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.