

Sample Information

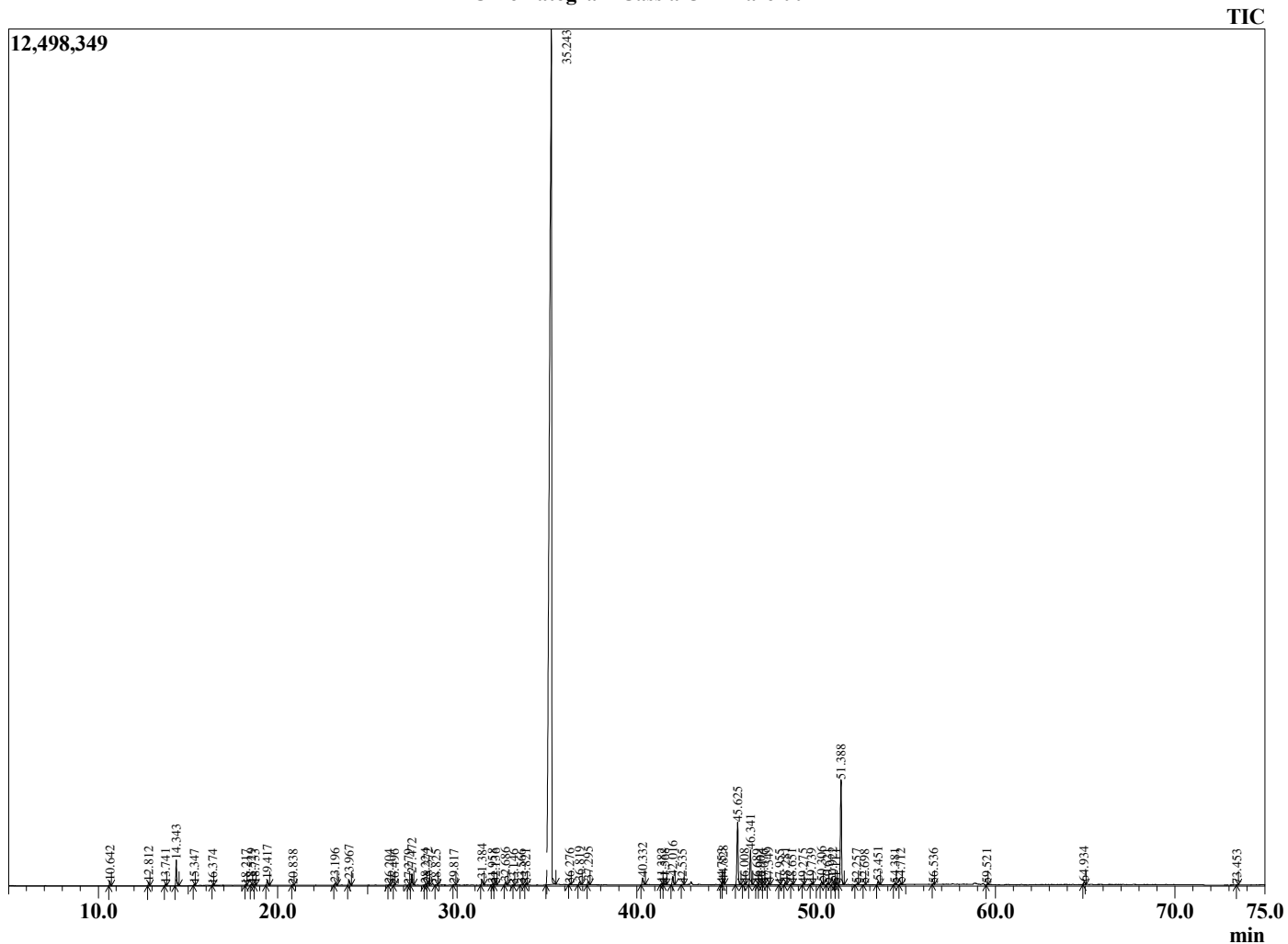
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 2/26/2021 2:17:01 PM
 Sample Type : Essential Oil
 Sample Name : Cassia Oil - Barefut
 Sample ID : 0109
 Injection Volume : 0.10
 Instrument ID: : GC-3



Peak Report TIC

R.Time	Name	Area%
10.642	Styrene	0.15
12.812	alpha-Pinene	0.14
13.741	Camphene	0.06
14.343	Benzaldehyde	0.93
15.347	beta-Pinene	0.04
16.374	Unidentified	0.01
18.217	para-Cymene	0.02
18.529	Limonene	0.04
18.733	1,8-cineole	0.03
19.417	Salicylaldehyde	0.24
20.838	Acetophenone	0.02
23.196	Linalool	0.09
23.967	Phenethyl alcohol	0.24
26.204	2-Methylbenzofuran	0.04
26.496	Camphor	0.01
27.279	2'-Hydroxy acetophenone	0.01
27.472	Hydrocinnamaldehyde	0.49
28.224	Borneol	0.05
28.372	2-Methylbenzofuran	0.11
28.825	Terpinen-4-ol	0.02
29.817	alpha-Terpineol	0.03
31.384	(Z)-Cinnamaldehyde	0.26
31.958	Citronellol	0.05
32.136	Hydrocinnamic alcohol	0.06
32.686	ortho-Anisaldehyde	0.14
33.146	Carvone	0.01
33.566	Unidentified	0.04
33.821	2-Phenethyl acetate	0.06
35.243	(E)-Cinnamaldehyde	83.47
36.276	Thymol	0.04
36.819	Carvacrol	0.15
37.295	(E)-Cinnamyl alcohol	0.17
40.332	Eugenol	0.35
41.382	Unidentified	0.05
41.568	Isoledene	0.06
42.016	alpha-Copaene	0.42
42.535	Unidentified	0.02
44.753	Unidentified	0.02
44.828	trans-beta-Caryophyllene	0.18
45.625	Coumarin	3.25
46.008	Unidentified	0.03
46.341	(E)-Cinnamyl acetate	1.66
46.689	Unidentified	0.03
46.904	Unidentified	0.03
47.076	alpha-Humulene	0.02
47.349	Alloaromadendrene	0.10
47.955	Unidentified	0.01
48.281	trans-Cadina-1(6),4-diene	0.11
48.651	Ar-Curcumene	0.05
49.275	Viridiflorene	0.03
49.739	alpha-Muurolene	0.06
50.306	beta-Bisabolene	0.14
50.621	gamma-Cadinene	0.07
50.922	delta-Cadinene	0.15
51.111	Unidentified	0.02
51.388	ortho-Methoxycinnamaldehyde	5.32
52.257	(E)-alpha-Bisabolene	0.05
52.698	Unidentified	0.03
53.451	trans-Nerolidol	0.16
54.381	Spathulenol	0.07
54.712	Caryophyllene oxide	0.08
56.536	Tetradecanal	0.02

Chromatogram Cassia Oil - 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.

R.Time	Name	Area%
59.521	Unidentified	0.03
64.934	Benzyl benzoate	0.14
73.453	Rimene	0.01
		100.00