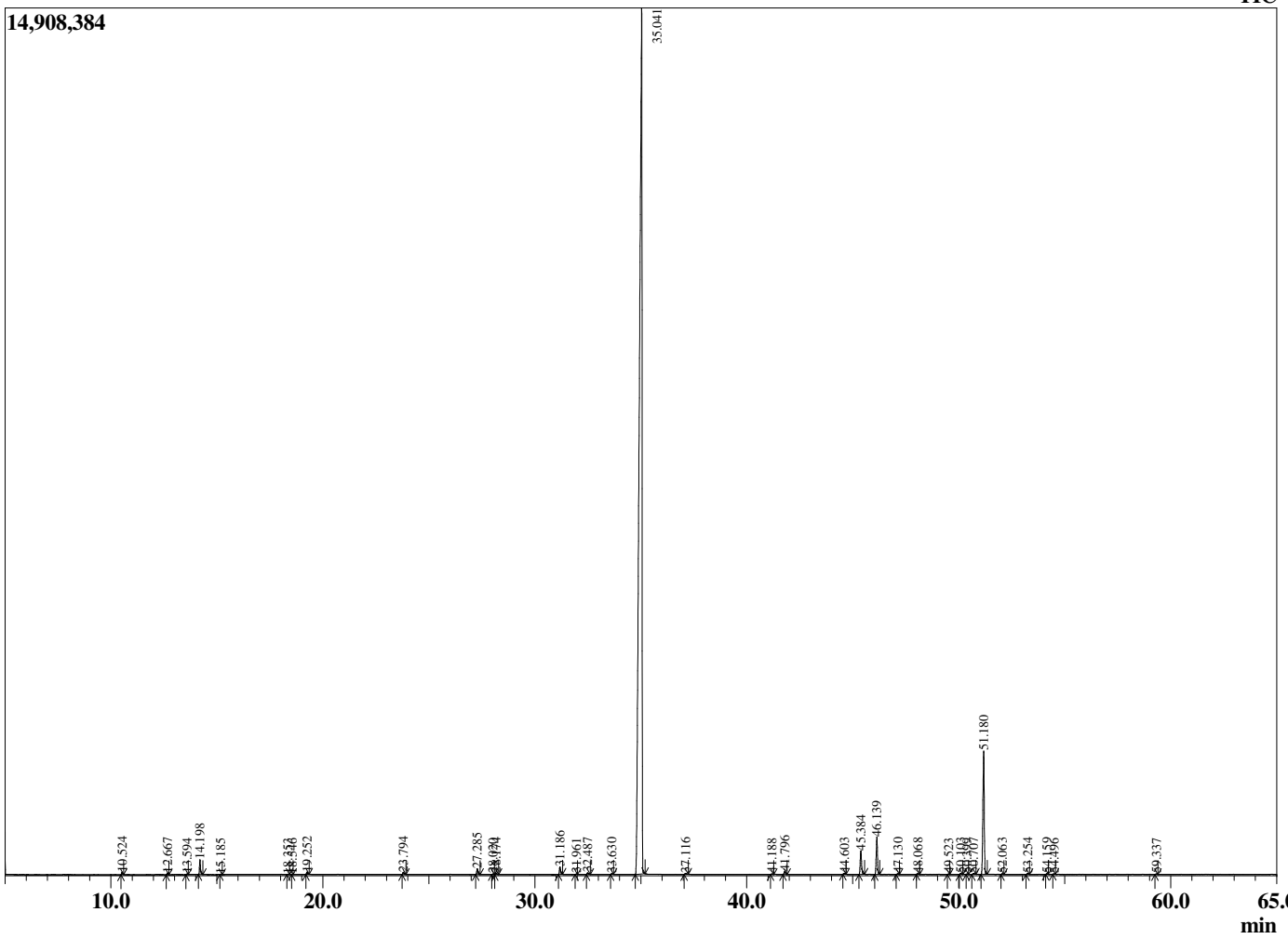
Sample Information

Analyzed by : Dr. Robert S. Pappas
Analyzed : 10/20/2018 5:46:42 PM
Sample Type : Essential Oil
Sample Name : Cassia, China
Sample ID : B0111A
Injection Volume : 0.10
Instrument ID: : GC-3

Chromatogram Cassia, China



Peak Report TIC

R.Time	Name	Area%
10.524	Styrene	0.09
12.667	alpha-Pinene	0.06
13.594	Camphene	0.02
14.198	Benzaldehyde	0.56
15.185	beta-Pinene	0.01
18.353	Limonene	0.01
18.546	1,8-cineole	0.01
19.252	Salicylaldehyde	0.09
23.794	Phenethyl alcohol	0.10
27.285	Hydrocinnamaldehyde	0.26
28.020	Borneol	0.02
28.174	2-Methyl benzofuran	0.06
31.186	(Z)-Cinnamaldehyde	0.35
31.961	Hydrocinnamic alcohol	0.02
32.487	Methyl salicylaldehyde ether	0.09
33.630	2-Phenethyl acetate	0.04
35.041	(E)-Cinnamaldehyde	88.00
37.116	(E)-Cinnamyl alcohol	0.07
41.188	Unidentified	0.03
41.796	alpha-Copaene	0.17
44.603	beta-Caryophyllene	0.06
45.384	Coumarin	1.19
46.139	(E)-Cinnamyl acetate	1.80
47.130	Alloaromadendrene	0.03
48.068	trans-Cadina-1(6),4-diene	0.04
49.523	alpha-Muurolene	0.03
50.103	beta-Bisabolene	0.05
50.399	gamma-Cadinene	0.03
50.707	delta-Cadinene	0.07
51.180	ortho-Methoxycinnamaldehyde	6.46
52.063	Unidentified	0.04
53.254	trans-Nerolidol	0.05
54.159	Spathulenol	0.03
54.496	Caryophyllene oxide	0.02
59.337	Unidentified	0.03
		100.00

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.