

Sample Information

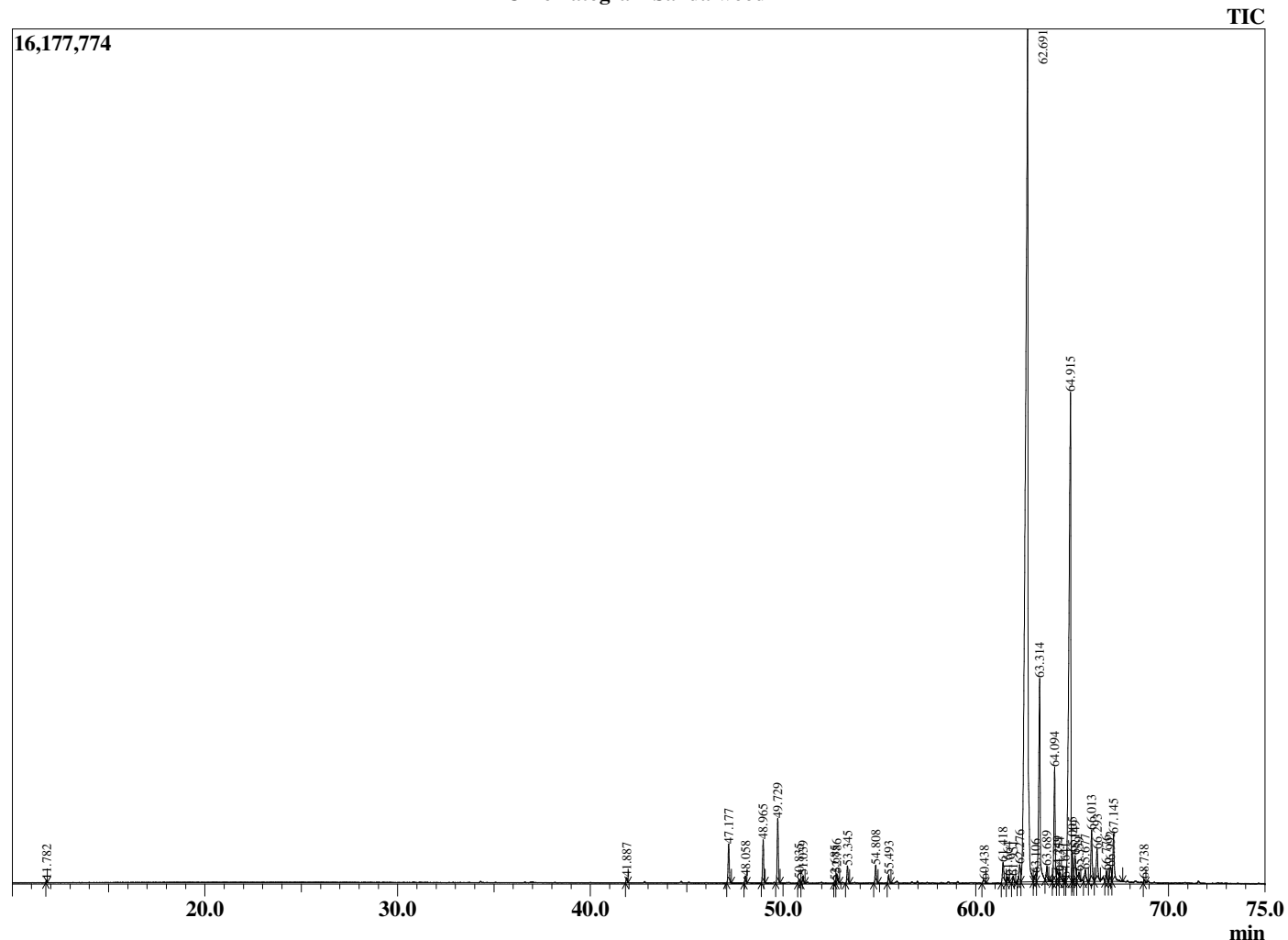
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 9/29/2018 8:26:45 PM
 Sample Type : Essential Oil
 Sample Name : Sandalwood
 Sample ID : B0530P
 Injection Volume : 0.10
 Instrument ID: : GC-4



Peak Report TIC

R.Time	Name	Area%
11.782	Santene	0.04
41.887	Sandalwood unidentified	0.13
47.177	Santalene <alpha>	1.05
48.058	Bergamotene <alpha-trans>	0.19
48.965	Santalene <beta-, epi>	1.12
49.729	Santalene <beta>	1.71
50.835	Curcumene isomer	0.11
51.039	Ar-Curcumene	0.20
52.685	Bisabolene <beta>	0.06
52.786	Curcumene <beta>	0.30
53.345	Teresantalic acid <alpha>	0.47
54.808	Norekasantalic acid <alpha>	0.54
55.493	Ekasantalic acid <alpha>	0.22
60.438	Sandalwood unidentified	0.14
61.418	Khusilal	0.73
61.664	Santalal <alpha>	0.23
61.951	Sandalwood unidentified	0.19
62.276	Sandalwood unidentified	0.61
62.691	Santalol <Z-alpha>	50.51
63.106	Sandalwood unidentified	0.38
63.314	Bergamotol <(Z)-, alpha-trans>	7.12
63.689	Santalol <E-alpha>	0.43
64.094	Santalol <Z-epi-beta>	3.37
64.249	Sandalwood unidentified	0.41
64.354	Sandalwood unidentified	0.38
64.641	Sandalwood unidentified	0.09
64.915	Santalol <Z-beta>	21.29
65.005	Sandalwood unidentified	0.79
65.149	Nuciferol <Z>	0.89
65.359	Santalol <E-epi-beta>	0.48
65.677	Sandalwood unidentified	0.44
66.013	Santalol <E-beta>	1.58
66.293	Sandalwood unidentified	1.21
66.776	Nuciferol <E>	0.31
66.992	Sandalwood unidentified	0.56
67.145	Lanceol <cis>	1.65
68.738	Lanceol isomer	0.09
		100.00

Chromatogram Sandalwood



Comments:

The analysis of this Sandalwood Oil, India batch sample meets the expected chemical profile for authentic essential oil of *Santalum album*. 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.