

Sample Information

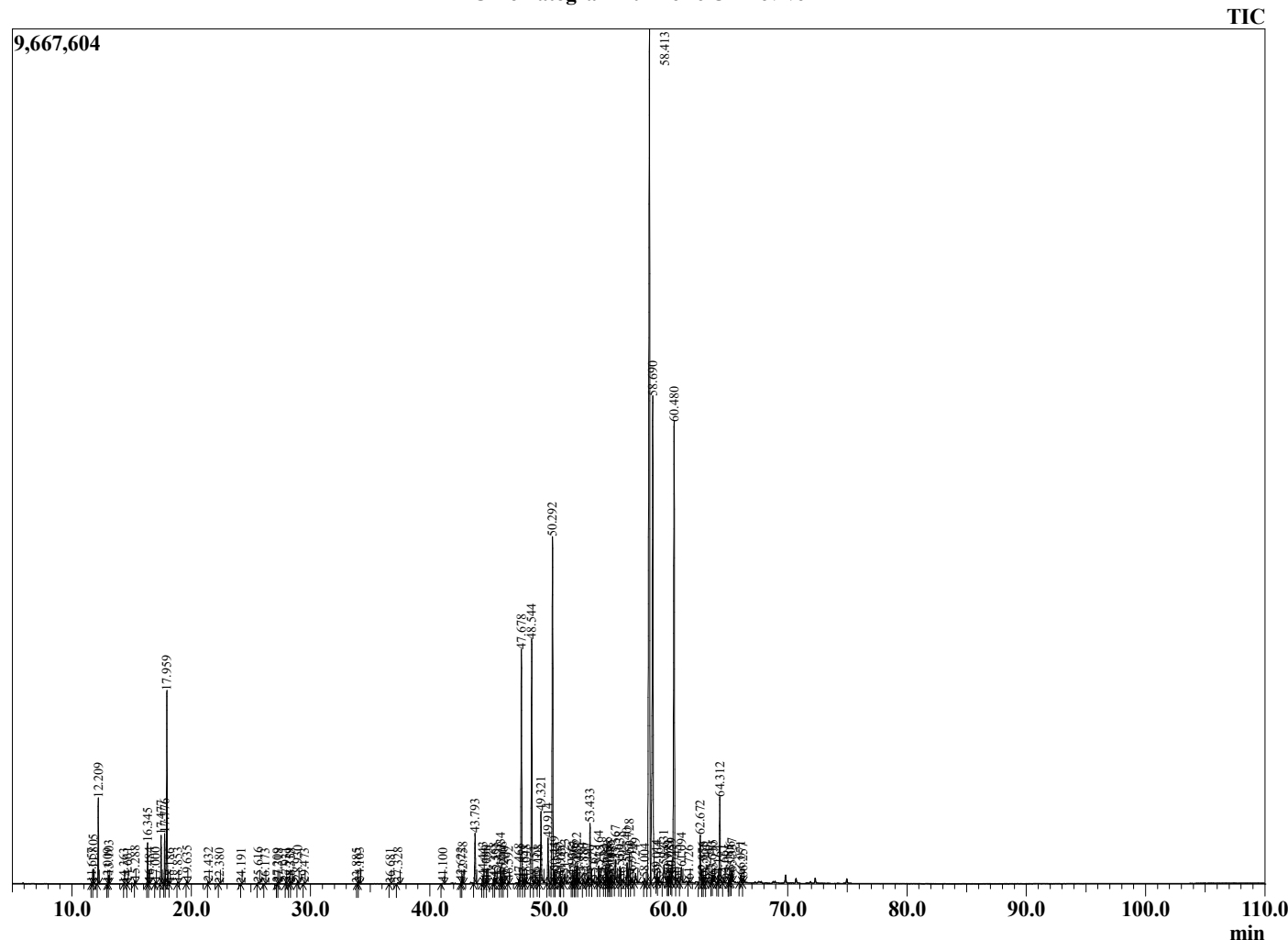
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 3/28/2023 1:09:59 AM
 Sample Type : Essential Oil
 Sample Name : Turmeric Oil Revive
 Sample ID : 9A
 Injection Volume : 0.10
 Instrument ID: : GC-4



Peak Report TIC

R.Time	Name	Area%
11.657	Tricyclene	0.01
11.805	alpha-Thujene	0.21
12.209	alpha-Pinene	1.28
13.009	alpha-Fenchene	0.01
13.103	Camphene	0.13
14.363	Sabinene	0.00
14.661	beta-Pinene	0.02
15.288	Myrcene	0.04
16.345	alpha-Phellandrene	0.69
16.484	delta-3-Carene	0.02
17.000	alpha-Terpinene	0.03
17.477	para-Cymene	0.83
17.776	Limonene	0.89
17.959	1,8-Cineole	3.67
18.186	cis-beta-Ocimene	0.01
18.853	trans-beta-Ocimene	0.02
19.635	gamma-Terpinene	0.05
21.432	Terpinolene	0.03
22.380	Unidentified	0.01
24.191	Unidentified	0.00
25.616	Camphor	0.03
26.173	trans-beta-Terpineol	0.01
27.209	delta-Terpineol	0.01
27.318	Borneol	0.01
27.931	Terpinen-4-ol	0.03
28.219	Unidentified	0.01
28.358	Unidentified	0.01
28.930	alpha-Terpineol	0.06
29.473	alpha-Phellandrene epoxide	0.02
33.885	Geranial	0.00
34.103	Unidentified	0.03
36.681	Unidentified	0.01
37.328	unidentified	0.03
41.100	Unidentified	0.02
42.622	Unidentified	0.04
42.758	alpha-Funebrene	0.15
43.793	alpha-Santalene	1.16
44.443	gamma-Elementene	0.16
44.680	alpha-trans-Bergamotene	0.07
44.798	Unidentified	0.06
45.368	Unidentified	0.13
45.551	epi-beta-Santalene	0.15
45.934	trans-beta-Farnesene	0.37
46.068	alpha-Humulene	0.17
46.200	Amorpha-4,11-diene	0.04
46.592	alpha-Acoradiene	0.06
47.468	gamma-Curcumene	0.09
47.678	Ar-Curcumene	5.38
47.851	beta-trans-Bergamotene	0.08
48.048	Unidentified	0.10
48.544	alpha-Zingiberene	5.56
48.753	gamma-Cadinene	0.04
49.108	trans,trans-alpha-Farnesene	0.09
49.321	beta-Bisabolene	1.80
49.914	Ionone isomer	1.06
50.292	beta-Sesquiphellandrene	8.21
50.449	trans-gamma-Bisabolene	0.29
50.525	Unidentified	0.09
50.935	Unidentified	0.06
51.032	Selina-4(15),7(11)-diene	0.15
51.323	Selina-3,7(11)-diene	0.24
51.936	Unidentified	0.05

Chromatogram Turmeric Oil Revive



Comments:

The analysis of this Turmeric batch sample meets the expected chemical profile for authentic essential oil of *Curcuma longa*. 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%
52.063	Unidentified	0.20
52.135	Unidentified	0.08
52.322	Germacrene B	0.39
52.463	Unidentified	0.13
52.880	Unidentified	0.10
53.197	Unidentified	0.10
53.433	alpha-Dihydrocurcumene	1.43
53.679	Caryophyllene oxide	0.08
54.164	Unidentified	0.44
54.275	Unidentified	0.04
54.632	Unidentified	0.07
54.828	Unidentified	0.26
54.956	Unidentified	0.16
55.068	Unidentified	0.12
55.175	beta-Atlantol	0.19
55.295	Unidentified	0.04
55.567	cis-Zingiberenol	0.53
55.938	anti-syn-syn-Helifolen-12-al C	0.39
56.109	Unidentified	0.12
56.540	trans-Zingiberenol	0.53
56.728	Unidentified	0.70
56.910	Unidentified	0.12
57.249	Unidentified	0.30
58.004	Unidentified	0.15
58.413	Ar-tumerone	26.10
58.690	Tumerone	14.69
59.014	Unidentified	0.11
59.164	cis-alpha-Santalal	0.11
59.631	Unidentified	0.66
59.979	Germacrene	0.12
60.081	Unidentified	0.18
60.259	Unidentified	0.08
60.480	Curlone	11.89
60.745	Unidentified	0.10
61.094	cis-alpha-Atlantone	0.44
61.726	cis-Nuciferol	0.06
62.672	Unidentified	1.15
62.876	Unidentified	0.15
62.958	Unidentified	0.14
63.246	Unidentified	0.09
63.640	Unidentified	0.12
63.755	Unidentified	0.18
64.164	Nootkatol	0.06
64.312	trans-alpha-Atlantone	1.98
64.661	Unidentified	0.09
65.085	Unidentified	0.06
65.206	Unidentified	0.12
65.337	Unidentified	0.21
66.071	Unidentified	0.19
66.257	Unidentified	0.11
		100.00