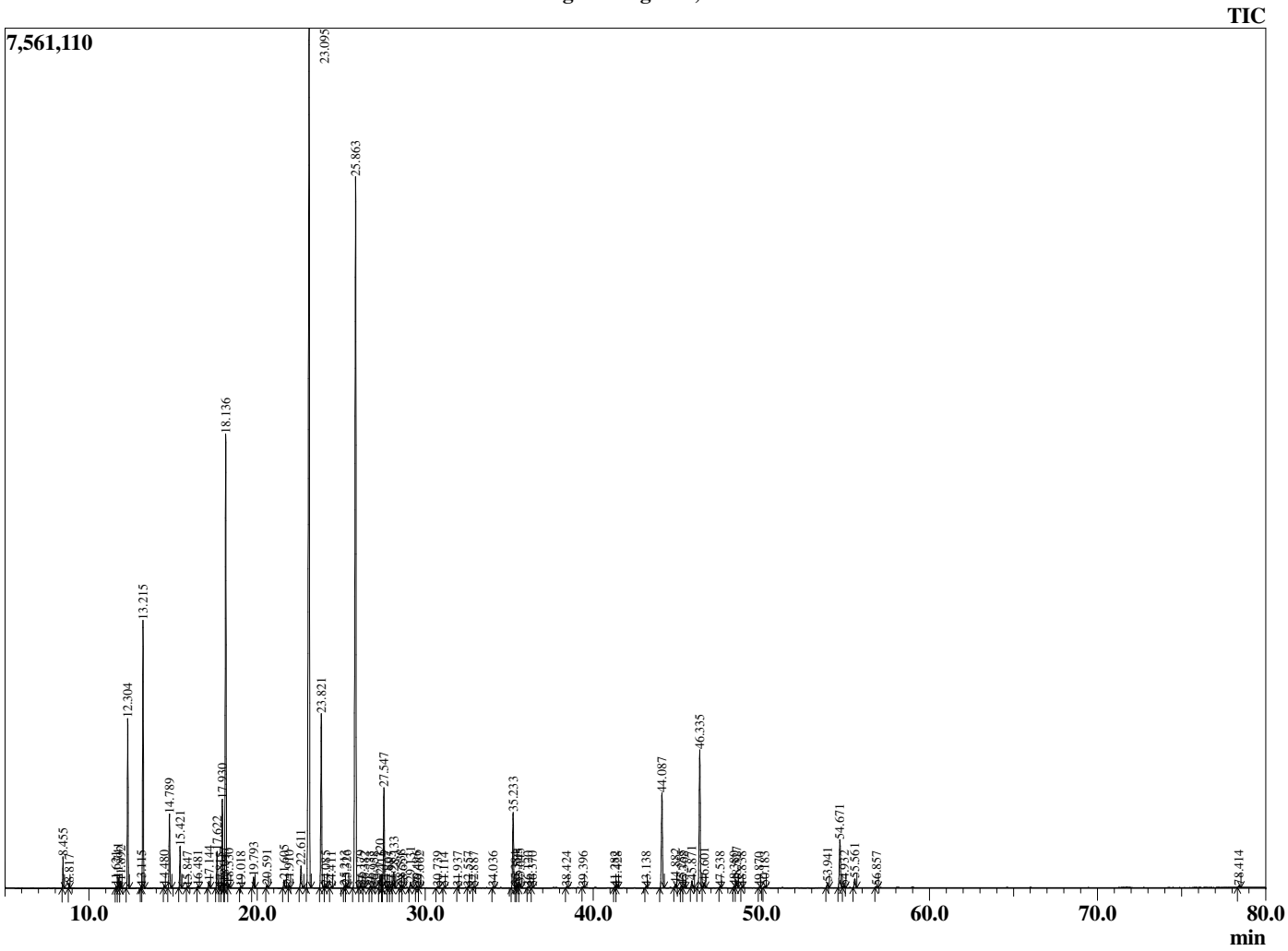
Sample Information

Analyzed by : Dr. Robert S. Pappas
Analyzed : 10/24/2018 9:35:24 PM
Sample Type : Essential Oil
Sample Name : Sage Oil, Dalmatian
Sample ID : D0B0919A
Injection Volume : 0.10
Instrument ID: : GC-3

Chromatogram Sage Oil, Dalmatian



Comments:

The analysis of this Sage, Dalmatian batch sample meets the expected chemical profile for authentic essential oil of *Salvia officinalis*. 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.

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Peak Report TIC

R.Time	Name	Area%
8.455	cis-Salvene	0.52
8.817	Unidentified	0.09
11.621	Hashishene	0.04
11.741	Tricyclene	0.19
11.892	alpha-Thujene	0.14
12.304	alpha-Pinene	3.51
13.115	alpha-Fenchene	0.04
13.215	Camphene	5.79
14.480	Sabinene	0.06
14.789	beta-Pinene	1.73
15.421	Myrcene	0.93
15.847	3-Octanol	0.03
16.481	alpha-Phellandrene	0.05
17.144	alpha-Terpinene	0.16
17.622	para-Cymene	0.87
17.815	Unidentified	0.02
17.930	Limonene	2.20
18.047	beta-Phellandrene	0.09
18.136	1,8-Cineole	10.95
18.330	cis-beta-Ocimene	0.10
19.018	trans-beta-Ocimene	0.03
19.793	gamma-Terpinene	0.29
20.591	trans-Sabinene hydrate	0.08
21.605	Terpinolene	0.23
21.910	para-Cymenene	0.07
22.611	Linalool	0.63
23.095	alpha-Thujone	27.01
23.821	beta-Thujone	4.64
24.085	Unidentified	0.05
24.411	alpha-Campholenal	0.03
25.213	Neothujol	0.06
25.326	trans-Sabinol	0.08
25.863	Camphor	21.90
26.179	Isothujol	0.07
26.382	trans-beta-Terpineol	0.04
26.733	trans-Pinocamphone	0.05
26.958	Isoborneol	0.04
27.320	Neoisothujol	0.37
27.416	delta-Terpineol	0.04
27.547	Borneol	2.80
27.807	cis-Pinocamphone	0.02
27.985	Unidentified	0.02
28.133	Terpinen-4-ol	0.44
28.538	para-Cymen-8-ol	0.08
28.651	Unidentified	0.02
29.131	alpha-Terpineol	0.19
29.496	Unidentified	0.05
29.662	Unidentified	0.02
30.739	trans-Carveol	0.04
31.114	Unidentified	0.01
31.937	Isovalerate <3-hexenyl->	0.01
32.557	3-cis-Hexenyl isovalerate	0.02
32.887	Nerol	0.02
34.036	Unidentified	0.02
35.233	Bornyl acetate	2.20
35.384	Isobornyl acetate	0.04
35.503	trans-Sabinyl acetate	0.13
35.645	Unidentified	0.12
36.120	Carvacrol	0.02
36.370	Unidentified	0.03
38.424	Unidentified	0.02
39.396	Unidentified	0.03

R.Time	Name	Area%
41.282	alpha-Copaene	0.03
41.428	Geranyl acetate	0.03
43.138	cis-beta-Caryophyllene	0.03
44.087	beta-Caryophyllene	2.91
44.882	Unidentified	0.11
45.255	Aromadendrene	0.08
45.368	Unidentified	0.03
45.871	Unidentified	0.22
46.335	alpha-Humulene	4.33
46.601	Alloaromadendrene	0.16
47.538	trans-Cadina-1(6),4-diene	0.03
48.380	Unidentified	0.03
48.527	Viridiflorene	0.18
48.838	alpha-Selinene	0.02
49.870	gamma-Cadinene	0.02
50.183	delta-Cadinene	0.04
53.941	Caryophyllene oxide	0.17
54.671	Viridiflorol	1.58
54.932	Unidentified	0.05
55.561	Humulene epoxide II	0.28
56.857	Unidentified	0.05
78.414	Manool	0.06
		100.00