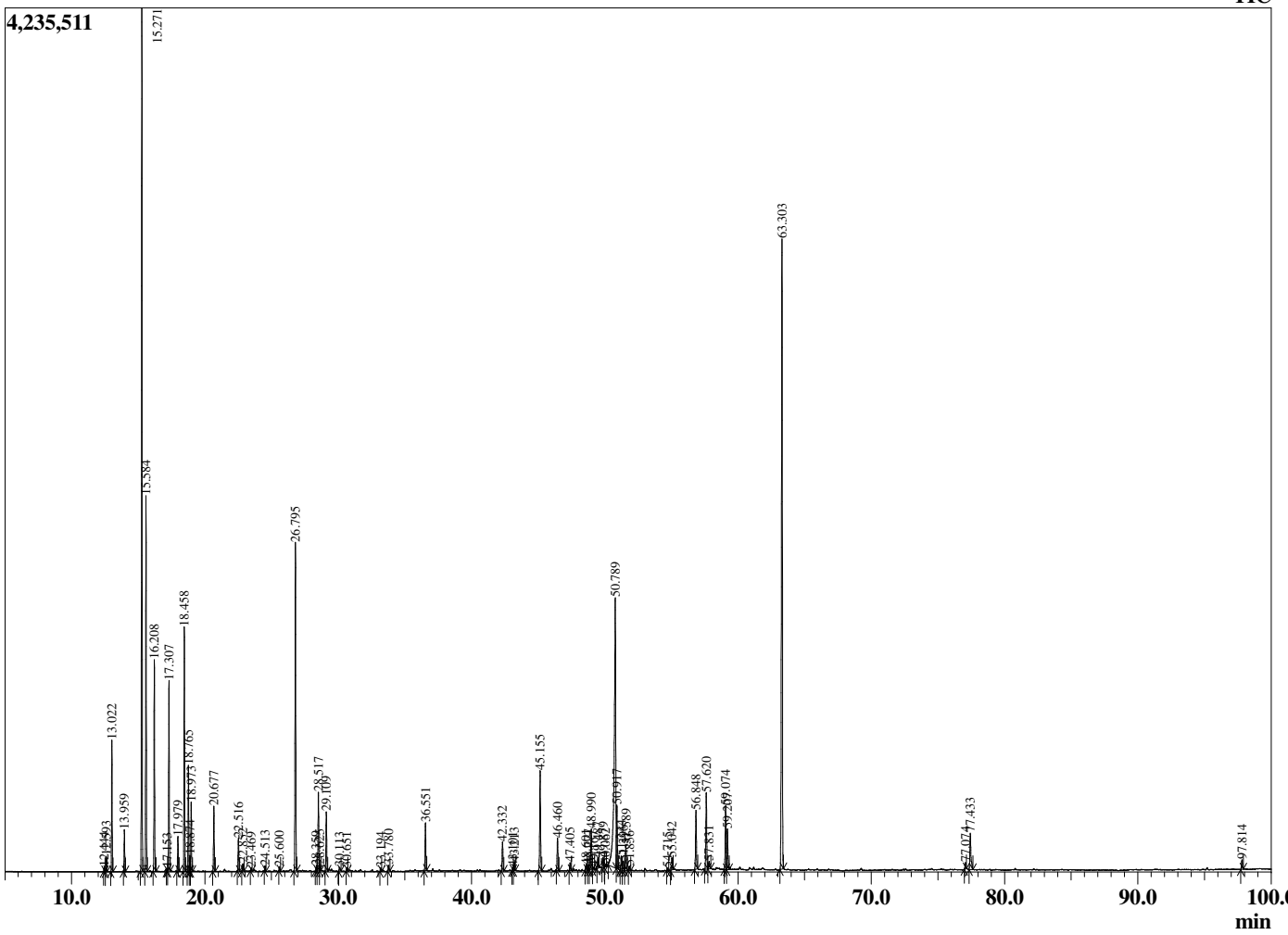
Sample Information

Analyzed by : Dr. Robert S. Pappas
Analyzed : 3/13/2020 8:11:53 AM
Sample Type : Essential Oil
Sample Name : Blue Tansy - Revive
Sample ID : 8353
Injection Volume : 0.10
Instrument ID: : GC-3

Chromatogram Blue Tansy - Revive



Peak Report TIC

R.Time	Name	Area%
12.444	Tricyclene	0.07
12.593	alpha-Thujene	0.25
13.022	alpha-Pinene	2.15
13.959	Camphene	0.70
15.271	Sabinene	15.38
15.584	beta-Pinene	6.49
16.208	Myrcene	3.85
17.153	Pseudolimonene	0.06
17.307	alpha-Phellandrene	3.48
17.979	alpha-Terpinene	0.65
18.458	para-Cymene	4.49
18.765	Limonene	1.94
18.874	beta-Phellandrene	0.28
18.973	1,8-cineole	1.35
20.677	gamma-Terpinene	1.27
22.516	Terpinolene	0.66
22.852	6,7-Epoxymyrcene	0.17
23.469	Linalool	0.06
24.513	Unidentified	0.09
25.600	4-Acetyl-1-methylcyclohexene	0.08
26.795	Camphor	7.01
28.359	Unidentified	0.10
28.517	Borneol	1.67
28.625	Carvenone	0.10
29.109	Terpinen-4-ol	1.28
30.113	alpha-Terpineol	0.09
30.651	alpha-Phellandrene epoxide	0.07
33.194	Unidentified	0.08
33.780	Carvotanacetone	0.13
36.551	Thymol[RT50.175, AI1289]	0.99
42.332	alpha-Copaene	0.67
43.101	Sesquithujene isomer	0.07
43.213	beta-Elemene	0.18
45.155	beta-Caryophyllene	2.45
46.460	trans-beta-Farnesene	0.76
47.405	alpha-Humulene	0.17
48.601	trans-Cadina-1(6),4-diene	0.12
48.777	gamma-Curcumene	0.12
48.990	Germacrene D	1.02
49.167	Unidentified	0.08
49.487	beta-Selinene	0.25
49.879	Bicyclogermacrene	0.28
50.062	alpha-Amorphene	0.07
50.789	3,6-Dihydrochamazulene	11.87
50.917	Dihyrdochamazulene isomer	1.46
51.244	delta-Cadinene	0.36
51.396	Dihydrochamazulene isomer	0.28
51.589	beta-Sesquiphellandrene	0.64
51.856	Dihyrdochamazulene isomer	0.10
54.715	Spathulenol	0.06
55.042	Caryophyllene oxide	0.32
56.848	5,6-Dihydrochamazulene	1.41
57.620	7,12-Dehydro-5,6,7,8-tetrahydrochamazulene	1.83
57.831	Valerianol	0.21
59.074	7,12-Dehydro-5,6,7,8-tetrahydrochamazulene	1.59
59.207	alpha-Eudesmol	1.07
63.303	Chamazulene	16.11
77.074	Unidentified	0.15
77.433	Unidentified	1.10
97.814	Unidentified	0.25
		100.00

Comments:

The analysis of this Blue Tansy batch sample meets the expected chemical profile for authentic essential oil of *Tanacetum annuum.* 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.