

Sample Information

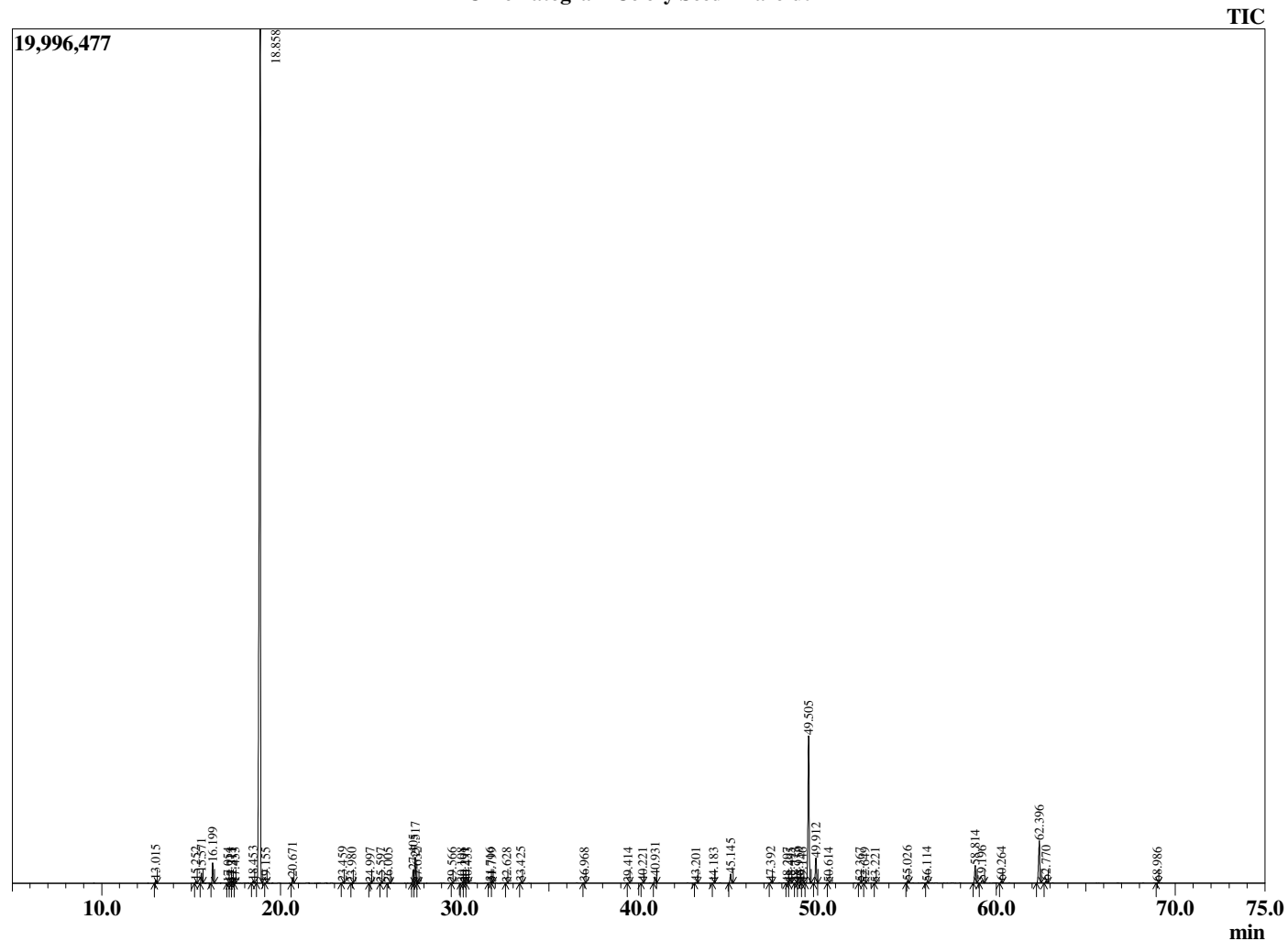
Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 6/17/2020 11:26:16 PM  
 Sample Type : Essential Oil  
 Sample Name : Celery Seed - Barefut  
 Sample ID : 0103  
 Injection Volume : 0.10  
 Instrument ID : GC-3



Peak Report TIC

R.Time	Name	Area%
4.232	3-Methylbutanal	0.01
4.345	2-Methylbutanal	0.01
13.015	alpha-Pinene	0.19
15.252	Sabinene	0.09
15.571	beta-Pinene	0.56
16.199	Myrcene	1.14
17.054	Octanal	0.02
17.213	Unidentified	0.04
17.311	alpha-Phellandrene	0.02
17.453	delta-3-Carene	0.02
18.453	para-Cymene	0.13
18.858	Limonene	73.56
19.155	cis-beta-Ocimene	0.02
20.671	gamma-Terpinene	0.35
23.459	Linalool	0.07
23.980	1-Octen-3-yl acetate	0.02
24.997	trans-para-Mentha-2,8-dienol	0.04
25.597	4-Acetyl-1-methylcyclohexene	0.02
26.005	cis-para-Mentha-2,8-dien-1-ol	0.05
27.405	Amyl benzene	0.91
27.517	6-Butyl-1,4-cycloheptadiene	1.75
27.632	Unidentified	0.02
29.566	trans-para-mentha-1(7),8-dien-2-ol	0.02
30.108	alpha-Terpineol	0.03
30.291	cis-Dihydrocarvone	0.04
30.433	cis-Piperitol	0.04
31.716	trans-Carveol	0.07
31.799	Unidentified	0.01
32.628	cis-Carveol	0.03
33.425	Carvone	0.08
36.968	(-)-trans-Pinocarvyl acetate	0.04
39.414	cis-Carvyl acetate	0.02
40.221	Limonene glycol	0.04
40.931	Valerophenone	0.44
43.201	beta-Elemene	0.06
44.183	Unidentified	0.02
45.145	beta-Caryophyllene	0.69
47.392	alpha-Humulene	0.07
48.297	4,5-di-epi-Aristolochene	0.02
48.495	Unidentified	0.02
48.773	gamma-Curcumene	0.03
48.959	Ar-Curcumene	0.07
49.146	Unidentified	0.02
49.505	beta-Selinene	11.62
49.912	alpha-Selinene	1.89
50.614	Unidentified	0.03
52.367	Eremophilene isomer	0.04
52.649	Unidentified	0.02
53.221	Unidentified	0.01
55.026	Caryophyllene oxide	0.14
56.114	Unidentified	0.06
58.814	Butylphthalide	1.30
59.196	alpha-Eudesmol	0.23
60.264	Unidentified	0.10
62.396	Sedanolid	3.45
62.770	3-Isobutylidenphthalide	0.16
68.986	Neophytadiene	0.03
		100.00

Chromatogram Celery Seed - Barefut



Comments:

The analysis of this Celery Seed batch sample meets the expected chemical profile for authentic essential oil of *Apium graveolens*. 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.