



APRC
Aromatic Plant Research Center



LABORATORY REPORT

SAMPLE NAME: Oregano Oil 2077

BOTANICAL NAME: *Origanum vulgare*

COMPANY NAME: Gaea Royals

COMPANY LOT #: 1704000819

Column: ZB5 (60 m length × 0.25 mm inner diameter × 0.25 µm film thickness)

Instrument: Shimadzu GCMS-QP2010 Ultra

Carrier gas: Helium 80 psi

Temperature ramp: 2 degrees Celsius per minute up to 260-degree Celsius

Split ratio: 30:1

Sample preparation: 5% w/v solution with Dichloromethane

Interpretation on sample:

This oil meets the standard profile of *Origanum vulgare*.

Analyzed by: Dr. Prabodh Satyal

Reviewed by: Ambika Poudel

Issued Date: 10/6/2018

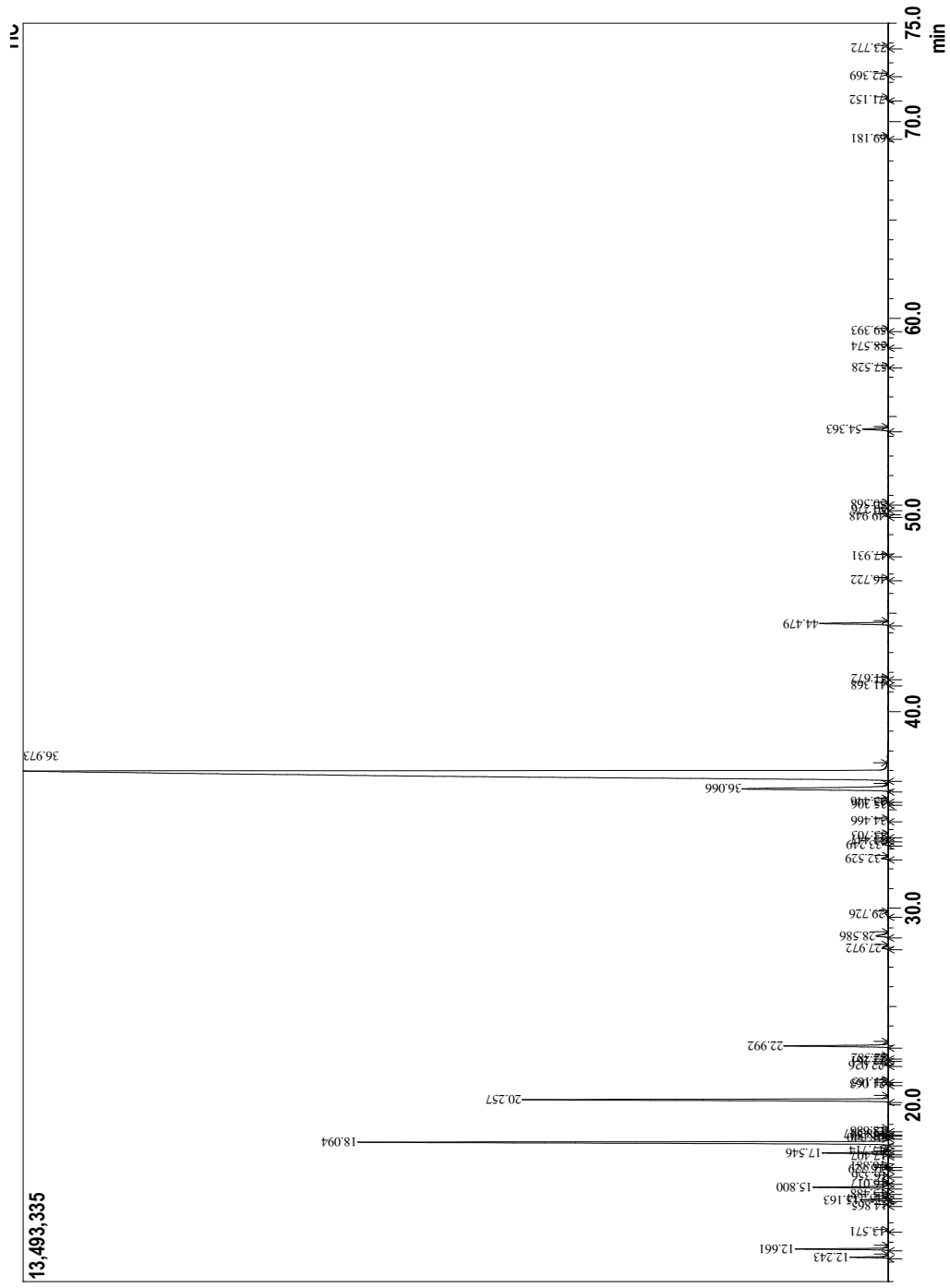
Sample Information

Analyzed by : Dr. Prabodh Satyal
Analyzed : 10/5/2018 10:51:05 PM
Sample Type : Essential Oil
Sample Name : Oregano Oil 2077
Lot# : 1704000819
Injection Volume : 0.20



Peak Report TIC

R.Time	Peak Name	Area%
12.243	Thujene <alpha>	0.52
12.661	Pinene <alpha>	1.31
13.571	Camphene	0.03
14.865	Sabinene	0.01
15.163	Pinene<beta>	0.44
15.234	Octen-3-ol<1>	0.08
15.488	Isolimonene trans	0.02
15.800	Myrcene	1.17
16.017	Menthane<trans>	0.02
16.356	2,6-Dimethyl-2-E-octadiene	0.01
16.729	Pseudolimonene	0.06
16.881	Phellandrene<alpha>	0.03
17.407	Cineol<1,4>	0.02
17.546	Terpinene <alpha>	1.07
17.714	Cymene <ortho>	0.05
18.094	Cymene <para>	11.33
18.340	Limonene	0.09
18.450	Phellandrene <beta>	0.02
18.517	Cineol<1,8>	0.14
18.686	Cymene <meta>	0.04
20.257	Terpinene <gamma>	7.12
21.063	Mentha-3,8-diene<para>	0.06
21.165	Pinol	0.01
22.026	Terpinolene	0.05
22.261	Fenchone	0.02
22.382	Cymene <para>	0.01
22.992	Linalool	1.93
27.972	Borneol	0.16
28.586	Terpinen-4-ol	0.36
29.726	Terpeneol <alpha>	0.09
32.529	Carvacrol Methyl ether	0.13
33.249	Carvone	0.14
33.447	Linalyl acetate	0.04
33.703	Carvotanacetone	0.02
34.466	Carvenone	0.02
35.306	Methyl carvone	0.01
35.446	Isothymol	0.03
36.066	Thymol	4.92
36.973	Carvacrol	66.12
41.368	Carvacrol<Dehydro>	0.02
41.672	Copaene <alpha>	0.01
44.479	Caryophyllene <trans>	1.43
46.722	Humulene <alpha>	0.02
47.931	Cadina-1(6),4-diene <trans>	0.01
49.948	Bisabolene <beta>	0.05
50.276	Amorphene <delta>	0.01
50.568	Cadinene <delta>	0.02
54.363	Caryophyllene oxide	0.56
57.528	Caryophylla-4(12),8(13)-dien-5 beta-ol	0.01
58.574	Caryophyllene <14-hydroxy-9epi-Z>	0.02
59.393	Caryophyllene <14-hydroxy-9epi-E>	0.02
69.181	Oregano	0.02
71.152	Oregano	0.05
72.369	Oregano	0.04
73.772	Springene <alpha>	0.02
		100.00



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Reviewed by: Ambika Poudel