

Sample Information

Analyzed by : Dr. Robert S. Pappas
 Analyzed : 7/19/2018 7:43:59 PM
 Sample Type : Essential Oil
 Sample Name : Ledum - Edens Garden
 Sample ID : AH06GJ
 Injection Volume : 0.10
 Instrument ID : GC-2

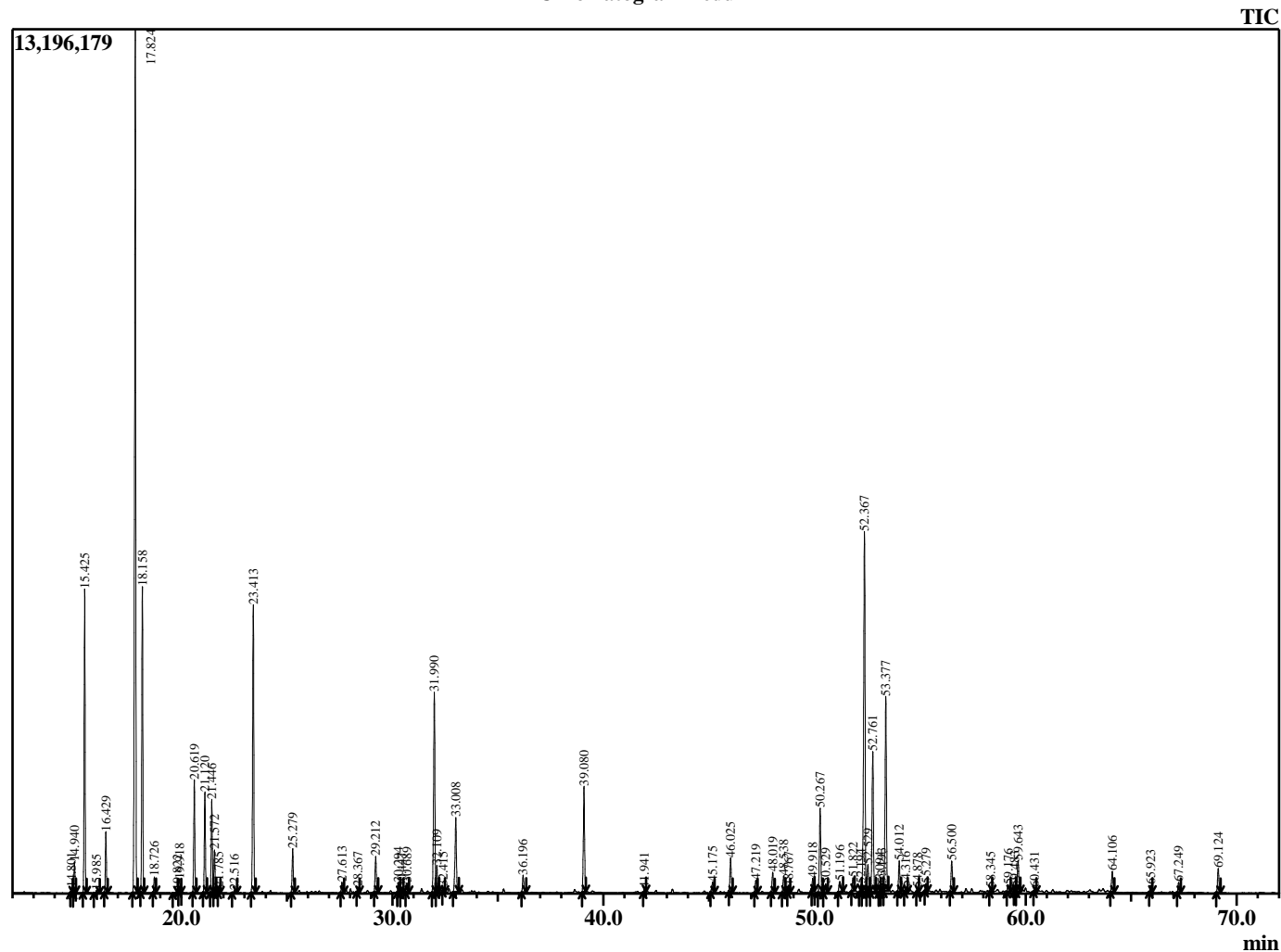


Peak Report TIC

R.Time	Name	Area%
14.801	Tricyclene	0.09
14.940	alpha-Thujene	0.62
15.425	alpha-Pinene	6.22
15.985	Thuja-2(4),10-diene	0.05
16.429	Camphene	1.25
17.824	Sabinene	21.61
18.158	beta-Pinene	6.62
18.726	Myrcene	0.33
19.822	1,3,8-p-Menthatriene	0.06
19.918	alpha-Phellandrene	0.26
20.619	alpha-Terpinene	2.51
21.120	para-Cymene	2.27
21.446	Limonene	2.14
21.572	beta-Phellandrene	0.92
21.785	Z-beta-Ocimene	0.10
22.516	E-beta-Ocimene	0.05
23.413	gamma-Terpinene	6.92
25.279	Terpinolene	1.03
27.613	Dehydro sabinone	0.26
28.367	Phellandral	0.12
29.212	trans-Pinocarveol	0.94
30.294	Sabina ketone	0.23
30.447	Ledum unidentified	0.11
30.689	Pinocarvone	0.23
31.990	Terpinen-4-ol	5.39
32.109	alpha-Thujenal	0.66
32.415	p-Mentha-1(7),8-dien-2-ol	0.09
33.008	Myrtenal	2.21
36.196	Cuminaldehyde	0.49
39.080	Bornyl acetate	2.72
41.941	p-Mentha-1,4-dien-7-ol	0.09
45.175	alpha-Copaene	0.32
46.025	beta-Elementene	0.90
47.219	alpha-Gurjunene	0.32
48.019	beta-Caryophyllene	0.55
48.538	gamma-Elementene	0.44
48.767	trans-alpha-Bergamotene	0.13
49.918	E-beta-Farnesene	0.34
50.267	alpha-Humulene	2.40
50.529	Alloaromadendrene	0.24
51.196	Ledum unidentified	0.40
51.822	Germacrene D	0.33
52.194	Ledum unidentified	0.22
52.367	beta-Selinene	10.90
52.529	Curzerene	0.77
52.761	alpha-Selinene	4.13
53.094	E,E-alpha-Farnesene	0.11
53.193	Ledum unidentified	0.21
53.377	beta-Bisabolene	5.40
54.012	delta-Cadinene	0.81
54.316	Zonarene	0.13
54.878	trans-Cadina-1,4-diene	0.08
55.279	delta-Bisabolene	0.18
56.500	Germacrene B	0.86
58.345	Ledum unidentified	0.11
59.176	Spathulenol	0.21
59.483	Caryophyllene oxide	0.12
59.643	Rosifoliol	0.91
60.431	1-epi-Cubenol	0.11
64.106	Germacrone	0.61
65.923	Ledum unidentified	0.18
67.249	Eudesma-4,11-dien-9-one	0.28

This report is not valid 1 year after the report date.

Chromatogram Ledum



Comments:

The analysis of this Ledum batch sample meets the expected chemical profile for authentic essential oil of Ledum groenlandicum. No contamination or adulteration was detected.

R.Time	Name
69.124	Ledum unidentified

Area%
0.68
100.00