

Sample:

Client: | Nature's Gift
Sample: | Grapefruit, White (Citrus paradisi)
Batch # | IS-58615
CAS Number | 8016-20-4
Type: | Essential Oil

Conclusion:

- No adulterants, diluents, or contaminants were detected via this method.
- This oil meets the expected profile for genuine essential oil of Grapefruit (Citrus x paradise).



X



Validated By:

Essential Validation Services

747 SW 2nd Ave, Gainesville, FL 32601

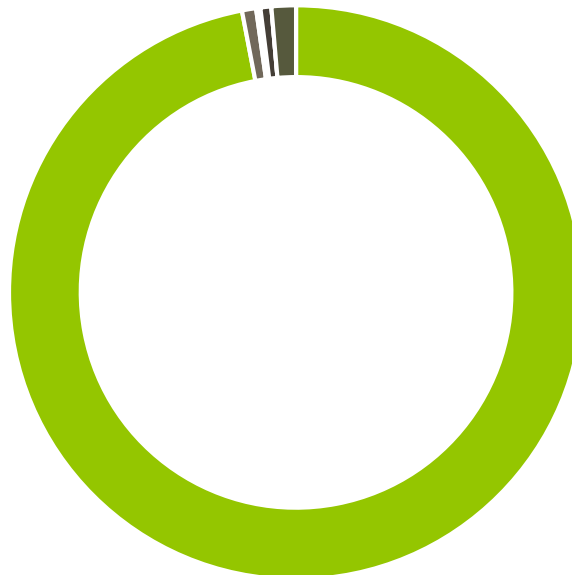
Phone: 317-361-5044 E-mail: Adam@essentialvalidationservices.com

Summary of Analyses

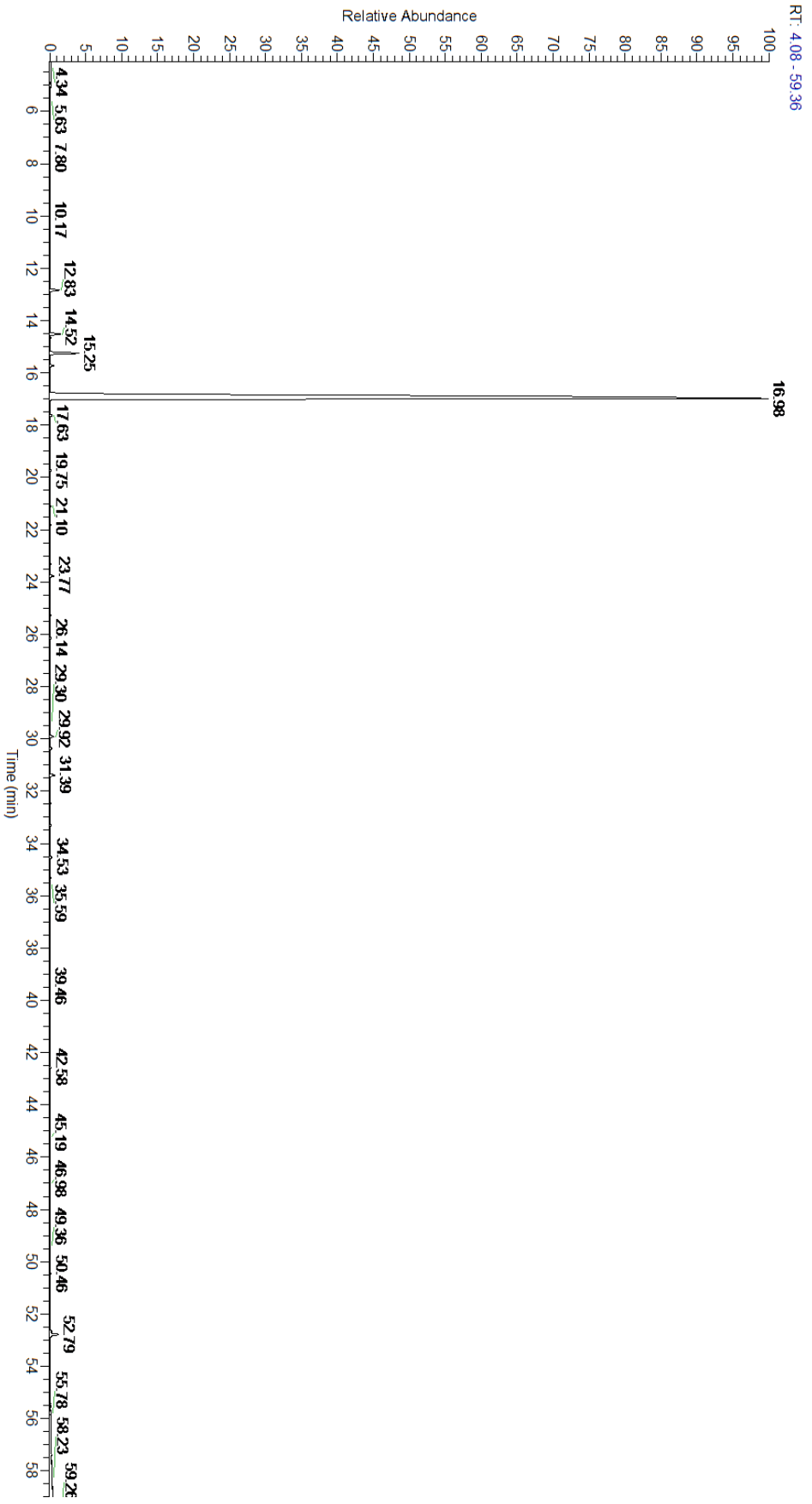
A fresh sample of Grapefruit, White (Citrus paradisi) Essential Oil (10 uL in .5to.5 mL Hexane + ETOH) was prepared and analyzed via split injection GC/EI-MS.

Main Compounds	Percentages
Limonene	93.45%
Myrcene	1.69%
Sabinene	0.66%
Auraptene	0.61%
alpha-Pinene	0.58%
Tangeretin	0.43%

Monoterpenes	Sesquiterpenes	Monoterpenols	Sesquiterpenols	Ketones
96.56%	0.79%	0.12%	0.00%	0.10%
Esters	Ethers	Aldehydes	Phenols	Other
0.00%	0.02%	0.61%	0.00%	1.37%



- Monoterpenes ■ Sesquiterpenes ■ Monoterpenols
- Sesquiterpenols ■ Ketones ■ Esters
- Ethers ■ Phenols ■ Other



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Total Percentage		99.24%			
Peak Number	RT	Area %	Compound Name	RI	Chemical Family
1	12.83	0.58%	alpha-Pinene	936.10	Monoterpene
2	14.52	0.66%	Sabinene	973.00	Monoterpene
3	14.65	0.05%	beta-Pinene	974.00	Monoterpene
4	15.25	1.69%	Myrcene	989.20	Monoterpene
5	15.72	0.24%	Octanal	998.00	Aliphatic Aldehyde
6	16.98	93.45%	Limonene	1029.50	Monoterpene
7	17.63	0.13%	(Z)-beta-Ocimene	1037.80	Monoterpene
8	19.75	0.08%	Linalool	1099.00	Monoterpenol
9	19.89	0.03%	Nonanal	1104.00	Aliphatic Aldehyde
10	20.38	0.02%	trans-Limonene oxide	1138.10	Monoterpene Ether
11	21.81	0.04%	Citronellal	1154.50	Monoterpene Aldehyde
12	23.33	0.04%	alpha-Terpineol	1191.71	Monoterpenol
13	23.77	0.22%	Decanal	1206.57	Aliphatic Aldehyde
14	25.10	0.02%	Neral	1246.57	Monoterpene Aldehyde
15	25.27	0.04%	Carvone	1248.14	Monoterpene Ketone
16	26.14	0.06%	Geranial	1272.00	Monoterpene Aldehyde
17	29.92	0.22%	alpha-Copaene	1379.00	Sesquiterpene
18	31.39	0.31%	beta-Caryophyllene	1427.14	Sesquiterpene
19	32.47	0.04%	alpha-Humulene	1461.43	Sesquiterpene
20	33.32	0.08%	Germacrene D	1484.71	Sesquiterpene
21	34.53	0.14%	delta-Cadinene	1524.14	Sesquiterpene
22	42.58	0.06%	Nootkatone	1807.00	Sesquiterpene Ketone
23	52.79	0.61%	Auraptene	2636.00	Coumarin
24	59.26	0.43%	Tangeretin	3155.00	Flavonoid