

Customer: Appalachian Standard LLC  
 Customer Sample ID: Sweeten (RFF)  
 Laboratory Number: 19J0414-04



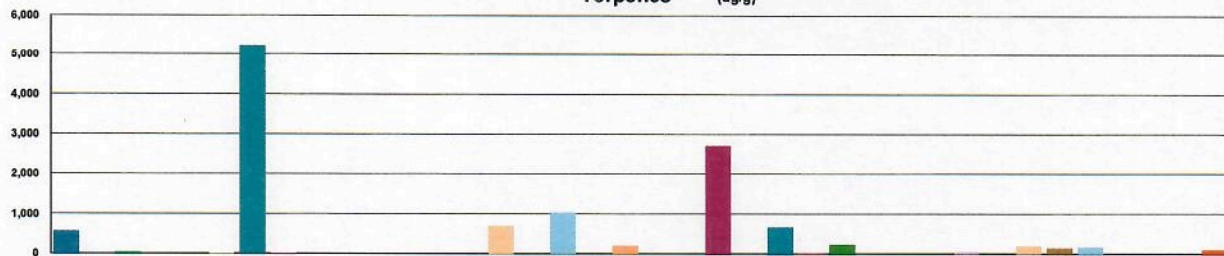
## Terpene Profile

Extraction Technician: DF  
 Analytical Chemist: GB

Extraction Date(s)	Analysis Date(s)
10/18/2019	10/22/2019

Terpene	Results	Terpene	Results
	ug/g		ug/g
alpha-Pinene	559	Isoborneol	
Camphene	50.0	Hexahydrothymol	
Sabinene		(+)-Borneol and (-)-Borneol	
beta-Pinene and beta-Myrcene	5260	alpha-Terpineol	22.9
p-Mentha-1,5-diene		gamma-Terpineol	
(1S)-(+)-3-Carene		Nerol	
alpha-Terpinene		Geraniol	
Ocimene Peak 1	705	(+)-Pulegone	
(R) - (+)-Limonene	1050	Geranyl Acetate	
Ocimene Peak 2	217	alpha-Cedrene	
Eucalyptol (1,8-Cineole)		trans-Caryophyllene	2710
gamma-Terpinene		alpha-Humulene	670
Sabinene Hydrate	35.6	Valencene	241
Terpinolene		cis-Nerolidol	
Linalool		trans-Nerolidol	60.5
(+)-Fenchone and L(-)-Fenchone		Guaiol	206
(1R)-Endo-(+)-Fenchyl	150	(-)-Caryophyllene Oxide	194
(-)-Isopulegol		(+)-Cedrol	
Camphor and (1S)-(-)-Camphor		(-)-alpha-Bisabolol (Levomenol)	109

Terpenes (ug/g)



- |  |  |   |  |
|--|--|---|--|
| <span style="color: blue;">■</span> alpha-Pinene                 | <span style="color: orange;">■</span> Eucalyptol (1,8-Cineole)     | <span style="color: red;">■</span> Hexahydrothymol                | <span style="color: teal;">■</span> alpha-Humulene                 |
| <span style="color: green;">■</span> Camphene                    | <span style="color: yellow;">■</span> gamma-Terpinene              | <span style="color: orange;">■</span> (+)-Borneol and (-)-Borneol | <span style="color: green;">■</span> Valencene                     |
| <span style="color: red;">■</span> Sabinene                      | <span style="color: pink;">■</span> Sabinene Hydrate               | <span style="color: red;">■</span> alpha-Terpineol                | <span style="color: purple;">■</span> cis-Nerolidol                |
| <span style="color: teal;">■</span> beta-Pinene and beta-Myrcene | <span style="color: lightblue;">■</span> Terpinolene               | <span style="color: red;">■</span> gamma-Terpineol                | <span style="color: purple;">■</span> trans-Nerolidol              |
| <span style="color: green;">■</span> p-Mentha-1,5-diene          | <span style="color: yellow;">■</span> Linalool                     | <span style="color: yellow;">■</span> Nerol                       | <span style="color: orange;">■</span> Guaiol                       |
| <span style="color: purple;">■</span> (1S)-(+)-3-Carene          | <span style="color: blue;">■</span> (+)-Fenchone and L(-)-Fenchone | <span style="color: blue;">■</span> Geraniol                      | <span style="color: lightblue;">■</span> (-)-Caryophyllene Oxide   |
| <span style="color: pink;">■</span> alpha-Terpinene              | <span style="color: brown;">■</span> (1R)-Endo-(+)-Fenchyl         | <span style="color: brown;">■</span> (+)-Pulegone                 | <span style="color: orange;">■</span> (+)-Cedrol                   |
| <span style="color: orange;">■</span> Ocimene Peak 1             | <span style="color: blue;">■</span> (-)-Isopulegol                 | <span style="color: blue;">■</span> Geranyl Acetate               | <span style="color: red;">■</span> (-)-alpha-Bisabolol (Levomenol) |
| <span style="color: lightblue;">■</span> (R) - (+)-Limonene      | <span style="color: green;">■</span> Camphor and (1S)-(-)-Camphor  | <span style="color: green;">■</span> alpha-Cedrene                |  |
| <span style="color: orange;">■</span> Ocimene Peak 2             | <span style="color: orange;">■</span> Isoborneol                   | <span style="color: purple;">■</span> trans-Caryophyllene         |  |

Reporting limit is roughly 40 ug/g depending on amount extracted.