

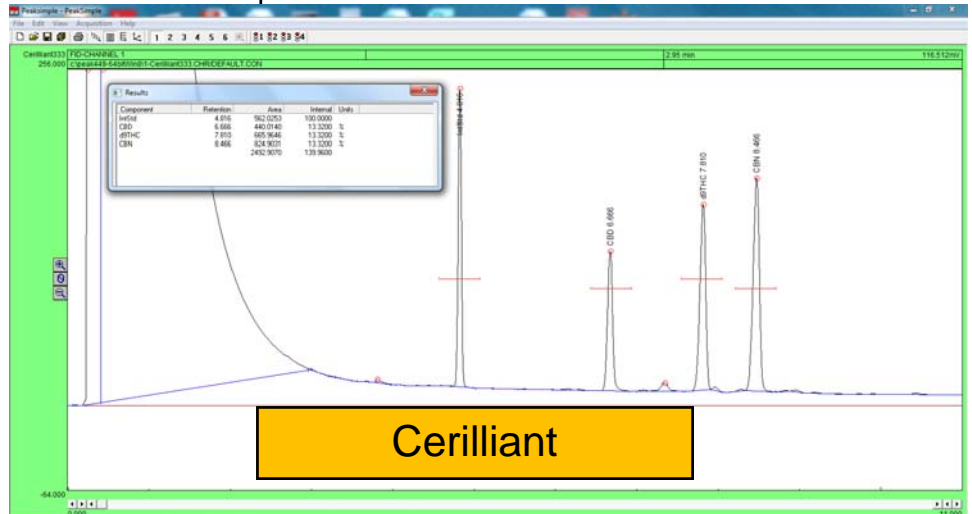
Cannabinoid Standards Comparison

Cannabinoid standards were purchased from 3 different suppliers in November 2016. The standards were CBD, d9THC and CBN all at 1000ng/ul (1mg/ml).

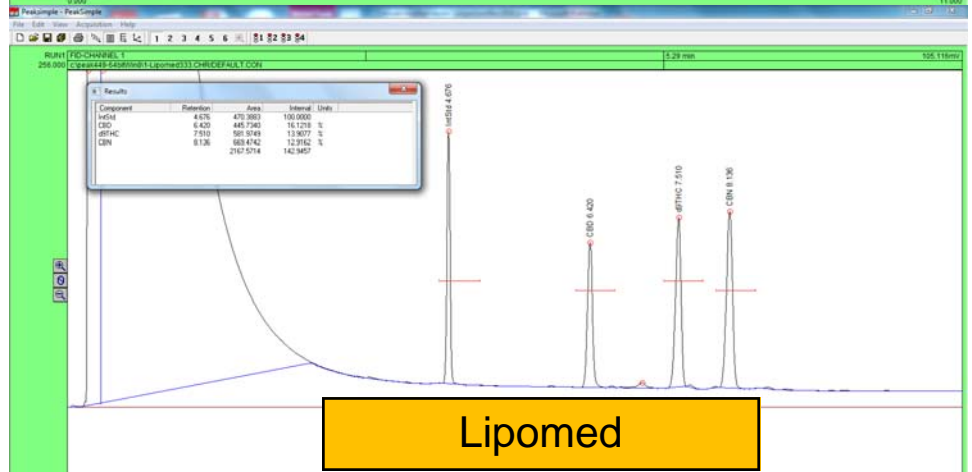
The three standards were mixed in equal volumes to make a 333ng/ul solution.

This was mixed 50/50 with SRI's internal standard solution consisting of 250mg/liter methyl stearate in denatured alcohol.

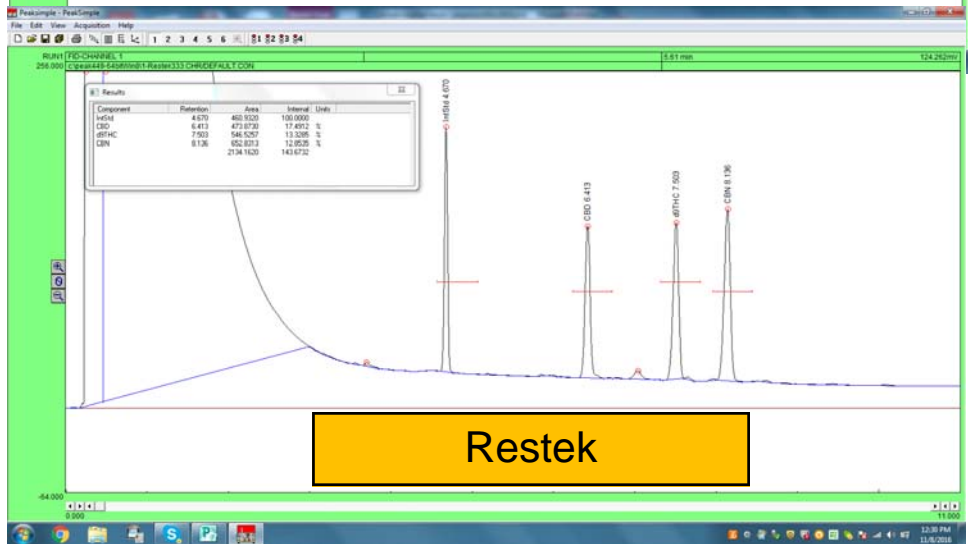
1ul of the resulting mixture was injected using a temperature program and FID detector. The column was a 15meter MXT500 .15micon film.



Cerilliant



Lipomed



Restek



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The data is summarized below.

The first number for each peak is the peak area. The second number is the calibrated internal standard result. We did the initial calibration using the Cerilliant standard.

The major conclusion is that the CBD showed the most variability between the three suppliers.

1-Cerilliant333.CHR	"IntStd"	562.0253	100.0000	"CBD"	440.0140	13.3200	"d9THC"	665.9646	13.3200	"CBN"	824.9031	13.3200
1-Lipomed333.CHR	"IntStd"	470.3883	100.0000	"CBD"	445.7340	16.1218	"d9THC"	581.9749	13.9077	"CBN"	669.4742	12.9162
1-Restek333.CHR	"IntStd"	460.9320	100.0000	"CBD"	473.8730	17.4912	"d9THC"	546.5257	13.3285	"CBN"	652.8313	12.8535



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