

SAMPLE GC-FID and HPLC ANALYSIS PROTOCOL

Customer: MediPen Ltd.

Analysis: CBD, CBG, CBDV, C3

Date: 23. 6. 2017

Sample	CBD	CBG	CBDV	C3-CBD
Cannassential® Drops 1000mg	780 ± 10 780mg / 15ml Bottle	330 ± 5 330mg / 15ml Bottle	10 ± 0.5 10mg / 15ml Bottle	0.2 ± 0.2 0.2mg / 15ml Bottle
Cannassential® Drops 2500mg	1940 ± 10 1940mg / 15ml Bottle	910 ± 5 910mg / 15ml Bottle	20 ± 0.5 20mg / 15ml Bottle	0.4 ± 0.2 0.4mg / 15ml Bottle
Cannassential® Drops 5000mg	3440 ± 10 3440mg / 15ml Bottle	1650 ± 10 1650mg / 15ml Bottle	30 ± 0.5 30mg / 15ml Bottle	0.8 ± 0.5 0.8mg / 15ml Bottle

The sample is dissolved in methanol and injected (1 µl) for GC-FID measurement. GC conditions: Agilent 6890 Gas Chromatograph, 20 ml/min, helium carrier gas, column Agilent DB-5 100% dimethylpolysiloxane column (30 m x 0.25 mm ID x 0.250 µm film thickness), 250°C injector temp, split ratio: 1:20, 290°C column temperature. Calibrated on CBD and THC standards (THC Pharm GmbH).

The sample (5 mg) is dissolved in methanol (5 ml) and injected (1 µl) for HPLC-MS measurement. HPLC conditions: Phenomenex Luna 5µm C18(2) 100 A column (150 x 4.6 mm ID x 5 µm), 25°C, UV detection 225 nm, isocratic condition (acetonitrile : water 80 : 20).

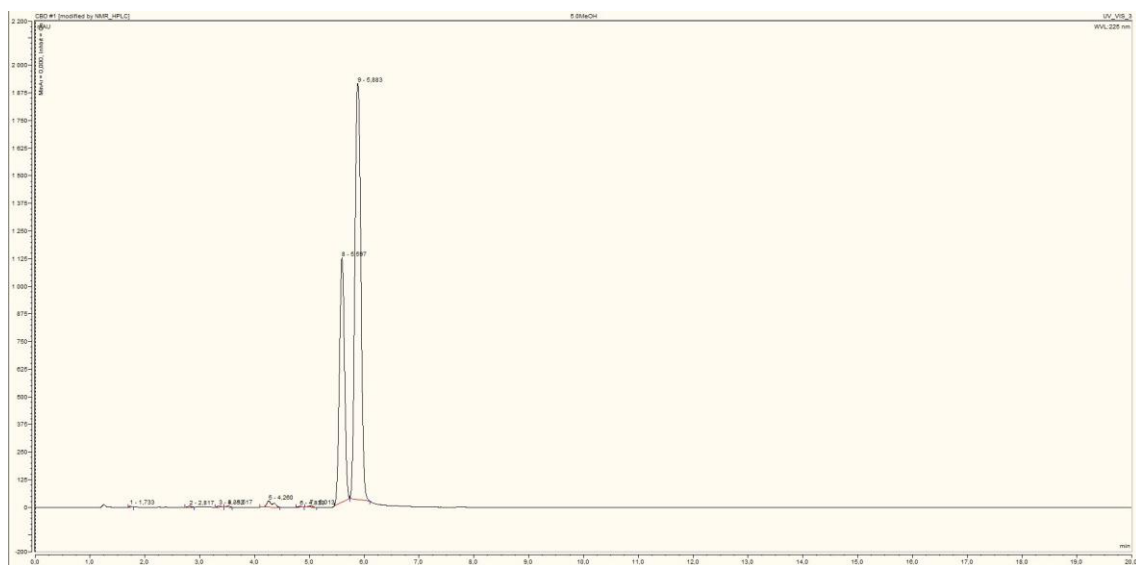
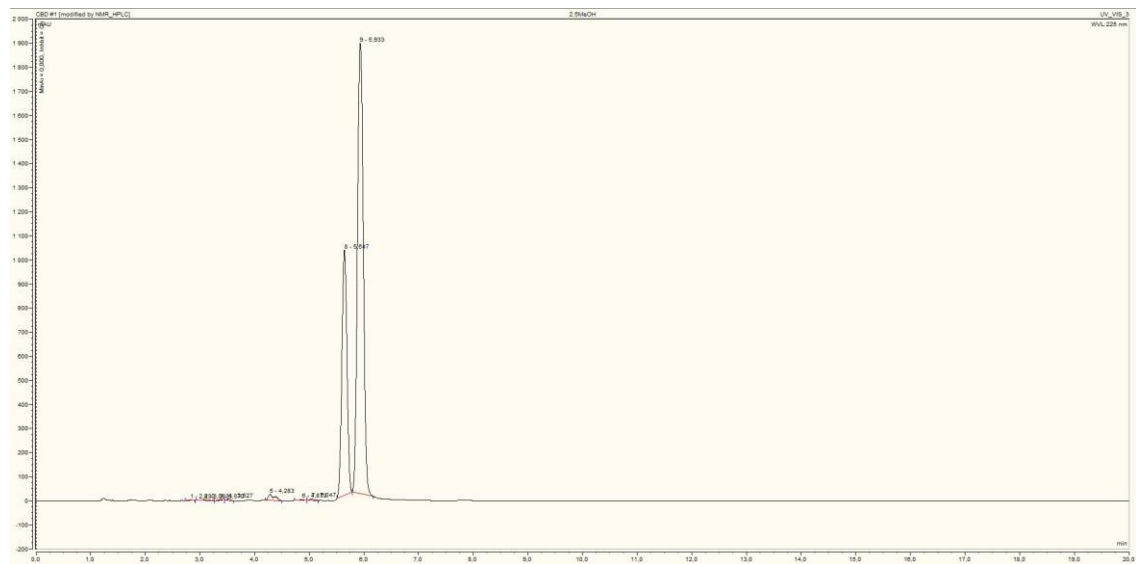
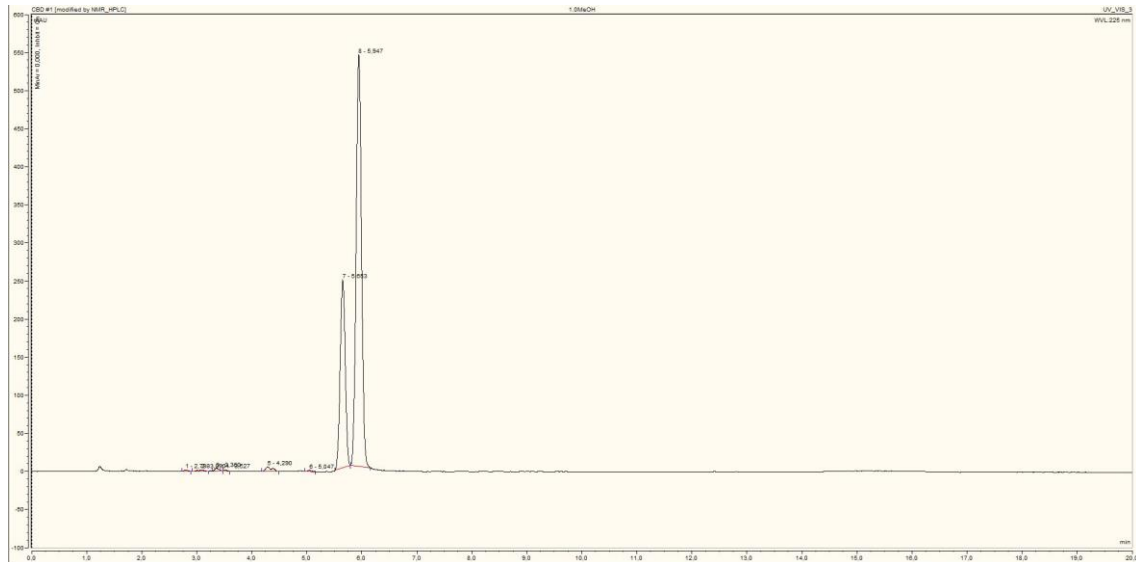


Fig 1. Chromatograms of Cannassential® Drops of various concentrations. 1000mg upper, 2500mg middle, 5000mg bottom.