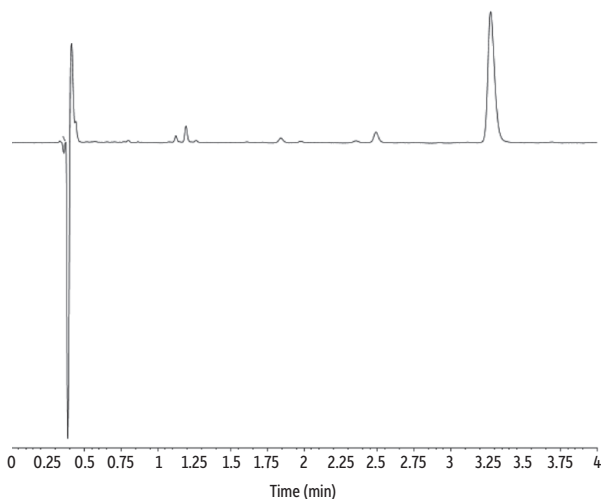


# Cannabis Flower Sample on Raptor ARC-18 1.8 µm by UHPLC-UV



LC\_GN0590

Peaks	Retention Time (min)
1. Cannabigerolic acid (CBGA)	1.19
2. Δ9-Tetrahydrocannabinol (Δ9-THC)	2.49
3. Tetrahydrocannabinolic acid A (THCA-A)	3.27

**Column** Raptor ARC-18 (cat.# 931421E)  
**Dimensions:** 100 mm x 3.0 mm ID  
**Particle Size:** 1.8 µm  
**Pore Size:** 90 Å  
**Guard Column:** UltraShield UHPLC precolumn filter (cat.# 25809)  
**Temp.:** 30 °C

**Sample**  
**Diluent:** 25:75 Water:methanol  
**Inj. Vol.:** 2 µL

**Mobile Phase**  
**A:** Water, 5 mM ammonium formate, 0.1% formic acid  
**B:** Acetonitrile, 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	1.0	25	75
4.00	1.0	25	75

**Detector** UV/Vis @ 228 nm

**Instrument** UHPLC

**Notes**  
 200 mg of ground flower was weighed into a 50 mL centrifuge tube. 10 mL of IPA was added prior to vortexing (5 seconds) and sonicating (5 minutes) over a total of three cycles. The sample was then centrifuged for 5 minutes at 3000 rpm. The supernatant was diluted 50-fold in 25:75 water:methanol, vortexed briefly, and filtered using a 0.2 µm Thomson SINGLE STEP standard filter vial (cat.#: 25893) prior to analysis.