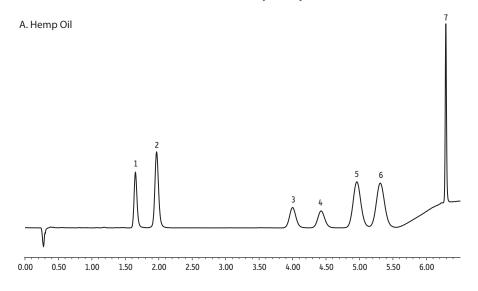
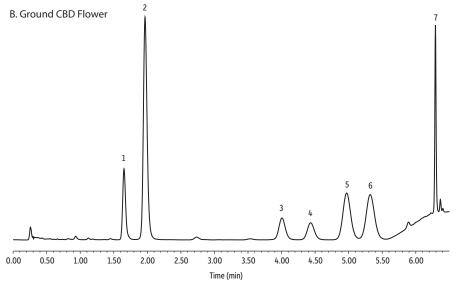
## Potency Method for 7 Cannabinoids in Matrix on 50 x 3 mm, 2.7 µm Raptor ARC-18





LC\_FF0614

	tr (min)
Cannabidiol (CBD) Cannabidiolic acid (CBDA)	1.651 1.967
3. Δ9-Tetrahydrocannabinol (Δ9-THC)	4.000
4. Δ8-Tetrahydrocannabinol (Δ8-THC)	4.426
5. (6aR,9S)-delta-10-Tetrahydrocannabinol ((6aR,9S)-Δ-10-THC)	
6. (6aR,9R)-delta-10-Tetrahydrocannabinol ((6aR,9R)- $\Delta$ -10-THC) 7. $\delta$ -9-Tetrahydrocannabinolic acid-a (THCA-A)	5.312 6.203

Column Raptor ARC-18 (cat.# 9314A5E)

Dimensions: 50 mm x 3.0 mm ID

2.7 μm 90 Å Particle Size: Pore Size:

Guard Column: Raptor ARC-18 EXP guard column cartridge 5 mm, 3.0 mm ID, 2.7 µm

(cat.# 9314A0253) 30 °C

Temp.:

Standard/Sample Cannabidiol (CBD) (cat.# 34011)

Cannabidiolic acid (CBDA) (cat.# 34094) d9-Tetrahydrocannabinol (d9-THC) (cat.# 34067) d8-Tetrahydrocannabinol (d8-THC) (cat.# 34090) d9-Tetrahydrocannabinolic acid A (THCA-A) (cat.# 34111) Compounds not present in these mixes were obtained separately. 25:75 Water:acetonitrile

Diluent:

Conc.: 50 ppm Inj. Vol.:

Mobile Phas
A:
B:

Water, 5 mM ammonium formate, 0.1% formic acid Methanol, 0.1% formic acid

Flow (mL/min)	%A	%B
0.8	25	75
0.8	25	75
0.8	5	95
0.8	5	95
0.8	25	75
0.8	25	75
	0.8 0.8 0.8 0.8 0.8	0.8 25 0.8 25 0.8 5 0.8 5 0.8 5

Detector Flow Cell Size: Instrument Sample Preparation UV/Vis @ 228 nm

500 nL Waters ACQUITY UPLC H-Class

A. Hemp oil was prepared by aliquoting 50  $\mu$ L of oil and adding 950  $\mu$ L of acetonitrile. After vortexing for 30 seconds, 750 µL were transferred to a vial and 250 µL of water were added. The sample was vortexed, a 20-fold dilution was performed, and analytes were spiked at 50 ppm.

B. Ground CBD flower was prepared by weighing 500 mg in a centrifuge tube and extracting with 10 mL of 80:20 methanol:water. Samples were vortexed for 15 seconds and sonicated for 5 minutes (3 cycles) and then centrifuged at 4000 rpm for 5 minutes. Supernatant was diluted 50-fold and all analytes were spiked at 50 ppm, except CBDA which was measured at endogenous levels.

All samples were prepared in a 2 mL vial (cat.# 21142) and capped with a short screw cap (cat.# 24498).

