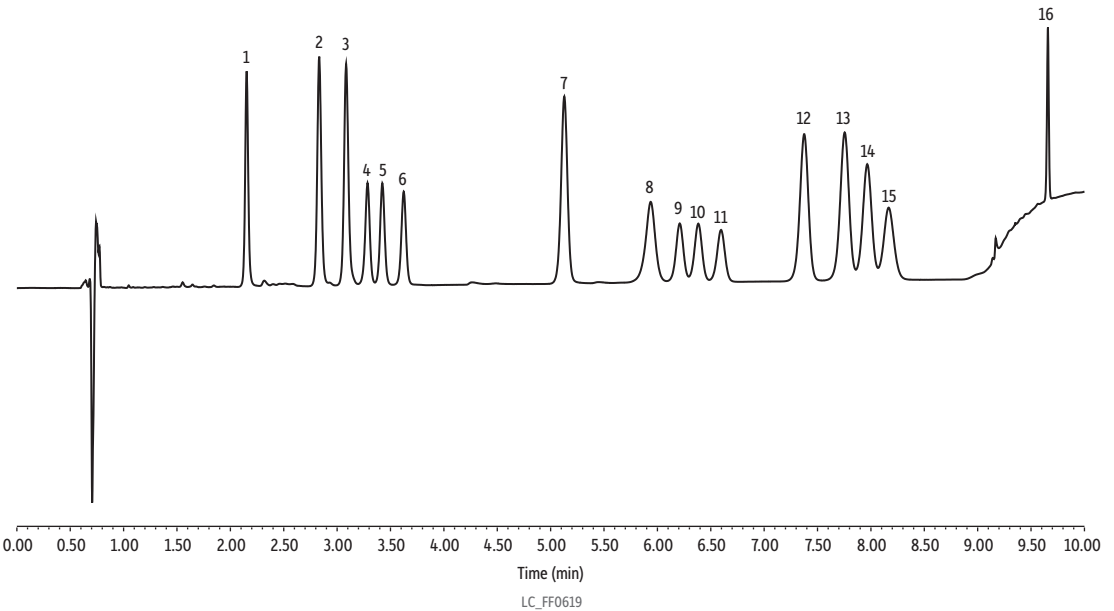
Potency Method for 16 Cannabinoids in Solvent on 150 x 3 mm, 2.7 µm Raptor ARC-18



LC_FF0619

Peaks	t_R (min)
1. Cannabidivarin (CBDV)	2.153
2. Cannabidiolic acid (CBDA)	2.832
3. Cannabigerolic acid (CBGA)	3.084
4. Cannabigerol (CBG)	3.285
5. Cannabidiol (CBD)	3.424
6. Tetrahydrocannabivarin (THCV)	3.624
7. Cannabinol (CBN)	5.128
8. Cannabinolic acid (CBNA)	5.937
9. Exo-Tetrahydrocannabinol (exo-THC)	6.210
10. Δ9-Tetrahydrocannabinol (Δ9-THC)	6.383
11. Δ8-Tetrahydrocannabinol (Δ8-THC)	6.596
12. (6aR,9S)-delta-10-Tetrahydrocannabinol ((6aR,9S)-Δ-10-THC)	7.375
13. (6aR,9R)-delta-10-Tetrahydrocannabinol ((6aR,9R)-Δ-10-THC)	7.755
14. Cannabichromene (CBC)	7.966
15. δ-9-Tetrahydrocannabinolic acid-a (THCA-A)	8.166
16. Tetrahydrocannabinol acetate (THCO acetate)	9.658

Column Raptor ARC-18 (cat.# 9314A6E)
Dimensions: 150 mm x 3.0 mm ID
Particle Size: 2.7 µm
Pore Size: 90 Å
Guard Column: Raptor ARC-18 EXP guard column cartridge 5 mm, 3.0 mm ID, 2.7 µm (cat.# 9314A0253)
Temp.: 30 °C
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)
Cannabidivarin (CBDV) (cat.# 34123)
Cannabigerol (CBG) (cat.# 34091)
Tetrahydrocannabivarin (THCV) (cat.# 34100)
Cannabigerolic acid (CBGA) (cat.# 34135)
Cannabinol (CBN) (cat.# 34010)
Cannabichromene (CBC) (cat.# 34092)
Cannabinolic acid (CBNA) (cat.# 34138)
Compounds not present in these mixes were obtained separately.
Diluent: 25:75 Water:acetonitrile
Conc.: 50 ppm
Inj. Vol.: 3 µL

Mobile Phase
A: Water, 6 mM ammonium formate, 0.1% formic acid
B: Acetonitrile, 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	0.8	30	70
8.00	0.8	26	74
8.01	0.8	0	100
10.00	0.8	0	100
10.01	0.8	30	70
12.00	0.8	30	70

Detector UV/Vis @ 228 nm
Flow Cell Size: 500 nL
Instrument Waters ACQUITY UPLC H-Class
Sample Preparation Samples prepared in a 2 mL vial (cat.# 21142) and capped with a short screw cap (cat.# 24498).