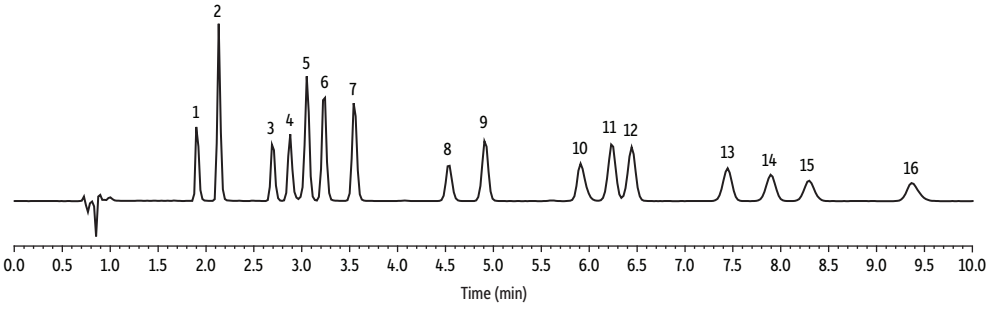
Stability Study: Mixed Neutral and Acidic Cannabinoids on Raptor ARC-18 (Room Temperature, Day 30)



LC_GN0702

Peaks	t_R (min)	Peaks	t_R (min)
1. Cannabidivarinic acid (CBDVA)	1.91	9. Cannabinol (CBN)	4.93
2. Cannabidivarin (CBDV)	2.15	10. Cannabinolic acid (CBNA)	5.91
3. Cannabidiolic acid (CBDA)	2.69	11. Δ9-Tetrahydrocannabinol (Δ9-THC)	6.23
4. Cannabigerolic acid (CBGA)	2.90	12. Δ8- Tetrahydrocannabinol (Δ8-THC)	6.45
5. Cannabigerol (CBG)	3.05	13. Cannabicyclol (CBL)	7.45
6. Cannabidiol (CBD)	3.21	14. Cannabichromene (CBC)	7.90
7. Tetrahydrocannabivarin (THCV)	3.58	15. δ-9-Tetrahydrocannabinolic acid-A (THCA-A)	8.30
8. Tetrahydrocannabivarinic acid (THCVA)	4.52	16. Cannabichromenic acid (CBCA)	9.37

Column Raptor ARC-18 (cat.# 9314A65)
Dimensions: 150 mm x 4.6 mm ID
Particle Size: 2.7 µm
Pore Size: 90 Å
Temp.: 30 °C
Standard/Sample Cannabinoids acids 7 standard, 1000 µg/mL, acetonitrile with 1% DIPEA and 0.05% ascorbic acid (cat.# 34144)
Cannabinoids neutrals 9 standard, 1000 µg/mL, P&T methanol (cat.# 34132)
Diluent: Acetonitrile
Conc.: 50 ppm
Inj. Vol.: 5 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	1.5	25	75
11.00	1.5	25	75

Detector Shimadzu DAD @ 228 nm
Instrument Shimadzu Nexera X2
Sample Preparation To prepare the working standards, 50 µL of the cannabinoids acids 7 standard (cat.# 34144); 50 µL of the cannabinoids neutrals 9 standard (cat.# 34132); and 900 µL of acetonitrile were aliquoted into 2 mL, screw-thread vials (cat.# 21143) and capped with short-cap, screw vial closures (cat.# 24498) and stored at room temperature for 30 days.