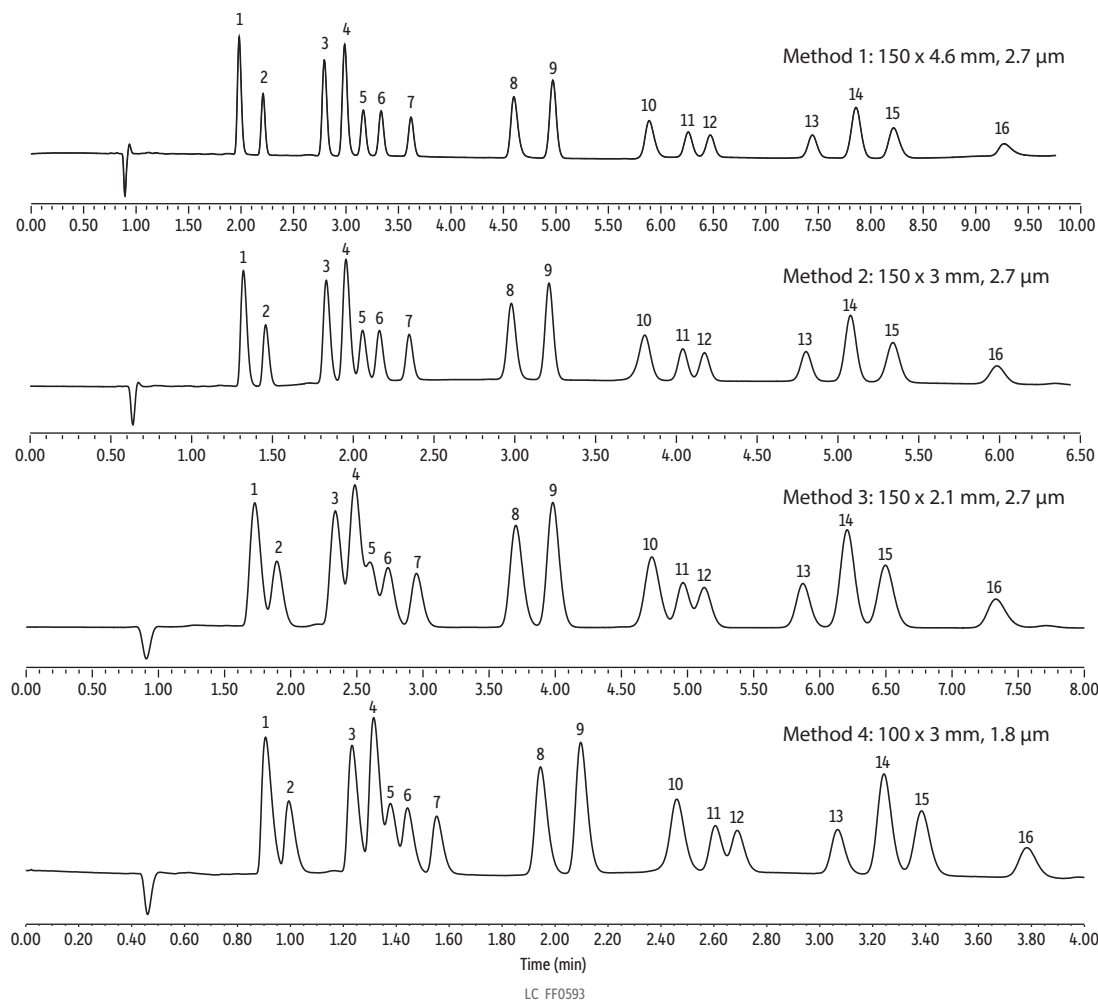


ECV Effects on Potency Methods: 16 Cannabinoids with 500 nL Flow Cell and 75 µL Post-Column Tubing



Peaks	tr (min)	Conc. (µg/mL)	Column	Temp.
1. Cannabidivarinic acid (CBDVA)	1.982	50		30 °C
2. Cannabidivarin (CBDV)	2.21	50		
3. Cannabidiolic acid (CBDA)	2.794	50		
4. Cannabigerolic acid (CBGA)	2.987	50		
5. Cannabigerol (CBG)	3.165	50		
6. Cannabidiol (CBD)	3.335	50		
7. Tetrahydrocannabivarin (THCV)	3.619	50		
8. Tetrahydrocannabivarinic acid (THCVA)	4.599	50		
9. Cannabinol (CBN)	4.971	50		
10. Cannabinolic acid (CBNA)	5.888	50		
11. Δ9-Tetrahydrocannabinol (Δ9-THC)	6.26	50		
12. Δ8-Tetrahydrocannabinol (Δ8-THC)	6.471	50		
13. Cannabicyclol (CBL)	7.444	50		
14. Cannabichromene (CBC)	7.859	50		
15. Tetrahydrocannabinolic acid A (THCA-A)	8.218	50		
16. Cannabichromenic acid (CBCA)	9.267	50		

Retention times are for top chromatogram (Method 1).

Sample
25:75 Water:acetonitrile

Diluent:
Water, 5 mM ammonium formate, 0.1% formic acid:Acetonitrile, 0.1% formic acid (25:75)

Mobile Phase
0.4-1.5 mL/min

Flow:
0.4-1.5 mL/min

Detector
UV/Vis @ 228 nm

Notes

Method 1
Column: Raptor ARC-18; 150 x 4.6 mm, 2.7 µm (cat.# 9314A65)
Flow: 1.5 mL/min; isocratic, 9 min
Injection volume: 5 µL

Method 2
Column: Raptor ARC-18; 150 x 3 mm, 2.7 µm (cat.# 9314A6E)
Flow: 1.0 mL/min; isocratic, 6 min
Injection volume: 2 µL

Method 3
Column: Raptor ARC-18; 150 x 2.1 mm, 2.7 µm (cat.# 9314A62)
Flow: 0.4 mL/min; isocratic, 10 min
Injection volume: 2 µL

Method 4
Column: Raptor ARC-18; 100 x 3 mm, 1.8 µm (cat.# 931421E)
Flow: 1.0 mL/min; isocratic, 4 min
Injection volume: 1 µL