

Fast Fingerprint Analysis of Perfume using Agilent J&W FactorFour VF-WAXms High Efficiency GC Columns

Application Note

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Introduction

The VF-WAXms column shows excellent selectivity for the many volatiles present in perfumes. Use of the 0.15 mm column allows analysis time to be reduced significantly without compromising on the resolution of the separation, as shown on Figure 1 on next page.



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Conditions

Technique:	GC-FID	Temperature:	75 °C to 260 °C with 16 °C/min
Column:	VF-WAXms	Carrier Gas:	Helium, 2.0 bar
	(A) 30 m x 0.25 mm df = 0.25 µm (part number CP9205)	Injector:	250 °C, split 60 mL/min
	(B) 15 m x 0.15 mm df = 0.15 mm (part number CP9201)	Detector:	275 °C, FID
		Sample Size:	1.0 µL
		Sample:	Perfume, 2 % (acetone)

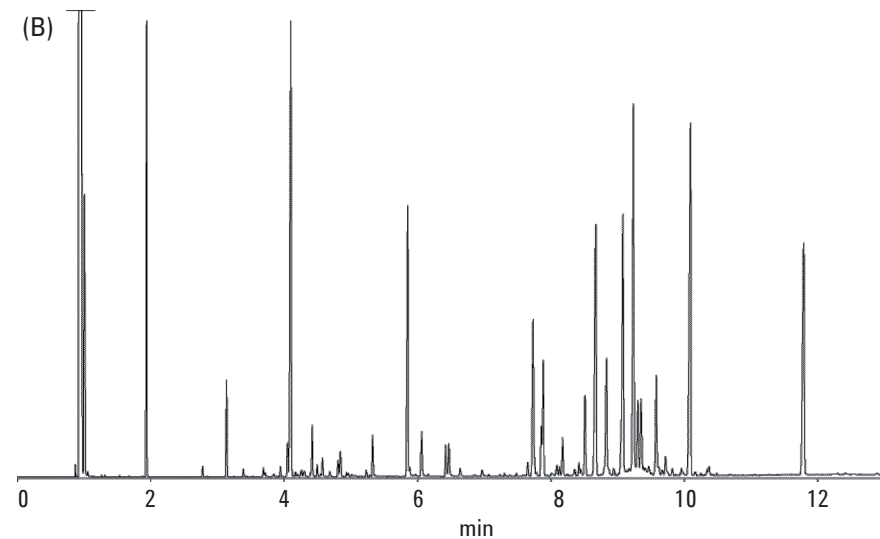
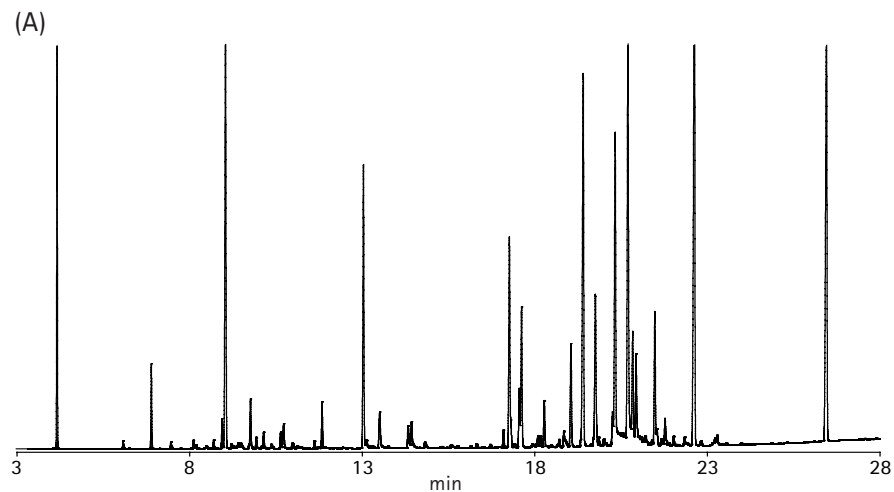


Figure 1. Fast fingerprint analysis of perfume using 0.15 mm VF-WAXms GC column (B) compared to the equivalent 0.25 mm VF-WAXms GC column (A)

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