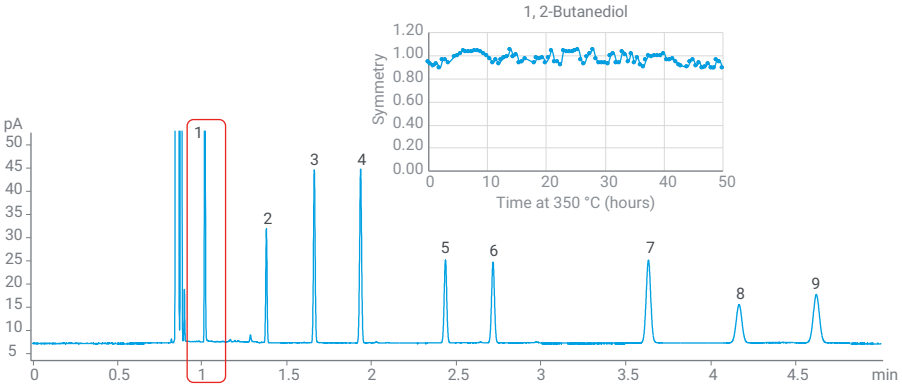
Here's Proof: This Ultra Inert GC Column Outperforms the Competition

Agilent J&W DB-5ms Ultra Inert GC columns

New study confirms consistent peak shape for active compounds—even after extended periods of time at maximum temperature

The Agilent J&W Ultra Inert GC column family pushes industry standards for consistent column inertness and exceptionally low column bleed. The result? Lower detection limits and more accurate data for active analytes.

In this study, we explored how a sustained maximum programming temperature of 350 °C would affect the peak shape of 1,2-butanediol. The peak shape symmetry stayed near 1.0 for over 50 hours, demonstrating the robustness and superior inertness of DB-5ms UI columns.



Peak	Name
1	1,2-Butanediol
2	Decane
3	1-Octanol
4	2,6-Dimethylphenol
5	2,6-Dimethylaniline
6	Naphthalene
7	1-Decanol
8	Tridecane
9	Methyl Decanoate

Conditions

GC System:	Agilent 8890/FID
Column:	J&W DB-5ms Ultra Inert 30m x 0.25mm x 0.25 um (122-5532UI)
Inlet:	Split 200:1; 250 °C
Carrier:	Helium, constant flow, 3.3 mL/min
Oven:	120 °C
FID:	260 °C, hydrogen: 40 mL/min; air: 400 mL/min
Injection:	1 µL

To learn how Agilent Inert Flow Path solutions can give you the utmost confidence in your results, visit www.agilent.com/chem/inert

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