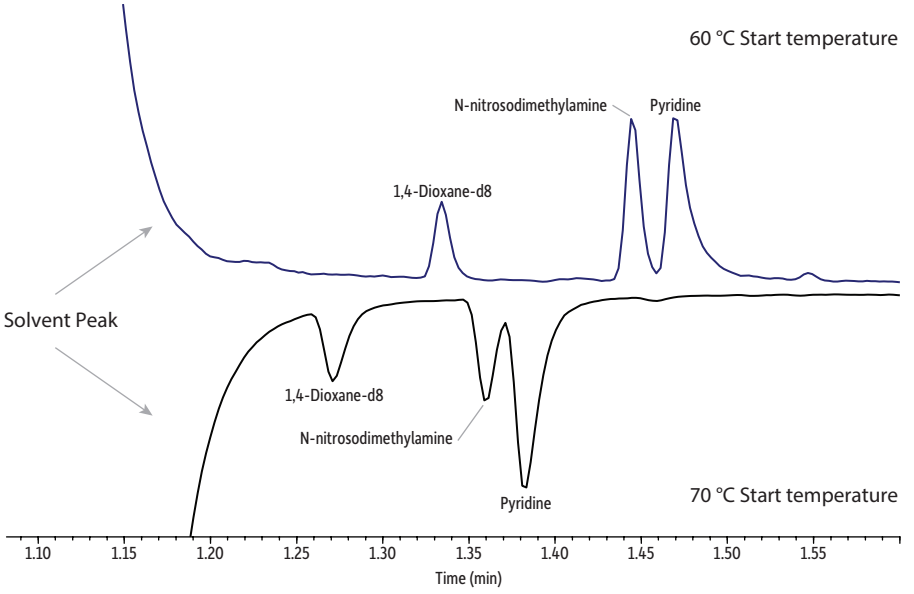
Improved Resolution of 1,4-Dioxane-d8 from the Solvent Peak when the Starting Oven Temp. is Reduced to 60 °C (Top) from 70 °C (Bottom)



GC_EV1478

Peaks
1. 1,4-Dioxane-d8 (IS)
2. N-Nitrosodimethylamine
3. Pyridine

Column	Rxi-5Sil MS, 20 m, 0.15 mm ID, 0.15 µm (cat.# 43816)
Sample	8270 MegaMix (cat.# 31850) 8270 Benzidines mix (cat.# 31852) Benzoic acid (cat.# 31879) Revised B/N surrogate mix (cat.# 31888) Acid surrogate mix (4/89 SOW) (cat.# 31063) Revised SV internal standard mix (cat.# 31886)
Diluent:	Methylene chloride
Conc.:	20 µg/mL (IS/SS 20 µg/mL)
Injection	
Inj. Vol.:	1 µL split (split ratio 20:1)
Liner:	Topaz 4 mm single taper w/wool (cat.# 23303)
Inj. Temp.:	275 °C
Split Vent Flow Rate:	12 mL/min
Carrier Gas	He, constant flow
Flow Rate:	0.72 mL/min
Detector	MS
Mode:	Scan
Transfer Line Temp.:	280 °C
Analyzer Type:	Quadrupole
Source Temp.:	330 °C
Quad Temp.:	180 °C
Electron Energy:	70 eV
Solvent Delay Time:	1.3 min
Tune Type:	DFTPP
Ionization Mode:	EI
Scan Range:	39-550 amu
Scan Rate:	9.8 scans/sec
Instrument	Agilent 7890B GC & 5977A MSD
Notes	Analyzed using a 120 V oven equipped with the GC Accelerator kit (cat.# 23849).

Oven Programs
Top: 60 °C (hold 0.7 min) to 285 °C at 39.8 °C/min to 305 °C at 4.3 °C/min to 330 °C at 28.5 °C/min (hold 3.5 min)
Bottom: 70 °C (hold 0.7 min) to 285 °C at 39.8 °C/min to 305 °C at 4.3 °C/min to 320 °C at 28.5 °C/min (hold 0.7 min)