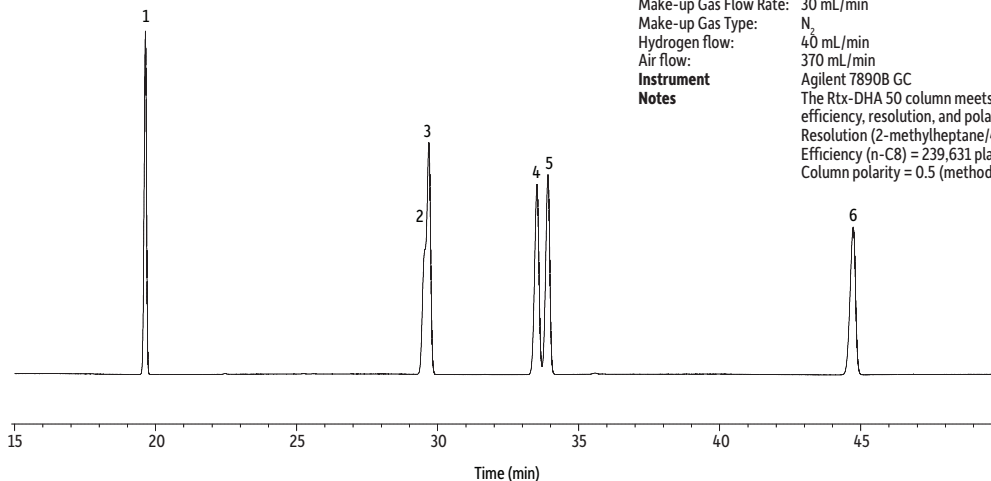


# ASTM D5134 Rtx-DHA 50 Column Evaluation

Peaks	Conc. (wt.%)
1. <i>n</i> -Heptane	1.0
2. Toluene	0.5
3. 2,3,3-Trimethylpentane	0.8
4. 2-Methylheptane	1.0
5. 4-Methylheptane	1.0
6. <i>n</i> -Octane	1.0

**Column** Rtx-DHA-50, 50 m, 0.20 mm ID, 0.50  $\mu$ m (cat.# 10147)  
**Sample** D5134 column evaluation mixture (DCG Partnership I, LTD)  
**Diluent:** 2-Methylpentane  
**Injection** 0.2  $\mu$ L split (split ratio 200:1)  
**Liner:** Premium 4.0 mm ID Precision liner w/wool (cat.# 23305.5)  
**Inj. Temp.:** 200 °C  
**Oven**  
**Oven Temp.:** 35 °C (hold 60 min)  
**Carrier Gas** He, constant pressure  
**Linear Velocity:** 23 cm/sec  
**Detector** FID @ 250 °C  
**Make-up Gas Flow Rate:** 30 mL/min  
**Make-up Gas Type:** N<sub>2</sub>  
**Hydrogen flow:** 40 mL/min  
**Air flow:** 370 mL/min  
**Instrument** Agilent 7890B GC  
**Notes**  
The Rtx-DHA 50 column meets all the ASTM D5134-13 method requirements for efficiency, resolution, and polarity.  
Resolution (2-methylheptane/4-methylheptane) = 1.40 (method requirement  $\geq 1.35$ )  
Efficiency (n-C8) = 239,631 plates (method specification  $\geq 225,000$ )  
Column polarity = 0.5 (method 0.4 $\pm$ 0.4)



GC\_PC1318