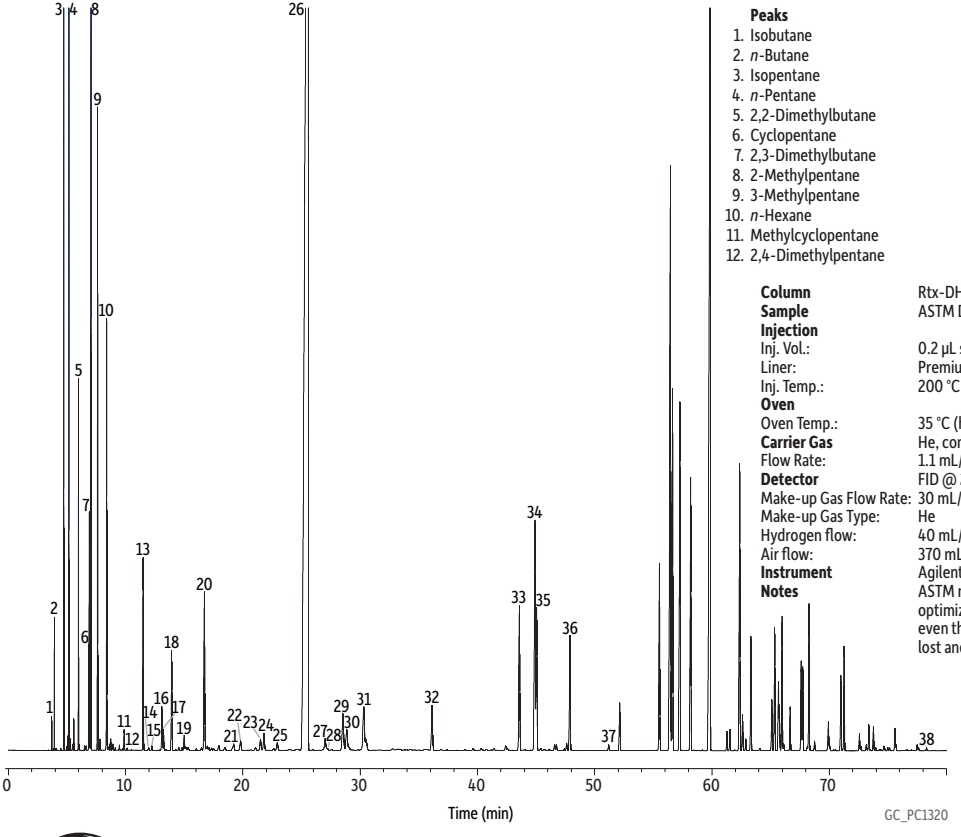
Reformate Standard on Rtx-DHA 50 by Optimized ASTM D5134-13



Peaks

1. Isobutane
2. *n*-Butane
3. Isopentane
4. *n*-Pentane
5. 2,2-Dimethylbutane
6. Cyclopentane
7. 2,3-Dimethylbutane
8. 2-Methylpentane
9. 3-Methylpentane
10. *n*-Hexane
11. Methylcyclopentane
12. 2,4-Dimethylpentane
13. Benzene
14. 3,3-Dimethylpentane
15. Cyclohexane
16. 2-Methylhexane
17. 2,3-Dimethylpentane
18. 3-Methylhexane
19. 3-Ethylpentane
20. *n*-Heptane
21. 2,2-Dimethylhexane
22. Ethylcyclopentane
23. 2,5-Dimethylhexane
24. 2,4-Dimethylhexane
25. 3,3-Dimethylhexane
26. Toluene
27. 2,3-Dimethylhexane
28. 2-Methyl-3-ethylpentane
29. 2-Methylheptane
30. 4-Methylheptane
31. 3-Methylheptane
32. *n*-Octane
33. Ethylbenzene
34. 1,3-Dimethylbenzene
35. 1,4-Dimethylbenzene
36. 1,2-Dimethylbenzene
37. *n*-Nonane
38. *n*-Dodecane

Column	Rtx-DHA-50, 50 m, 0.20 mm ID, 0.50 µm (cat.# 10147)
Sample	ASTM D5134 qualitative reformate standard (DCG Partnership I, LTD)
Injection	
Inj. Vol.:	0.2 µL split (split ratio 200:1)
Liner:	Premium 4.0 mm ID Precision inlet liner w/ wool (cat.# 23305)
Inj. Temp.:	200 °C
Oven	
Oven Temp.:	35 °C (hold 30 min) to 200 °C at 2 °C/min
Carrier Gas	He, constant flow
Flow Rate:	1.1 mL/min
Detector	FID @ 250 °C
Make-up Gas Flow Rate:	30 mL/min
Make-up Gas Type:	He
Hydrogen flow:	40 mL/min
Air flow:	370 mL/min
Instrument	Agilent 7890B GC
Notes	ASTM method D5134-13 was run at a higher flow rate that was optimized to increase column efficiency. At this optimized flow rate, even though compounds elute faster, resolution between peaks is not lost and the elution order is preserved.