

Micro GC Fusion® Analysis of Wellhead Natural Gas up to C9 Plus

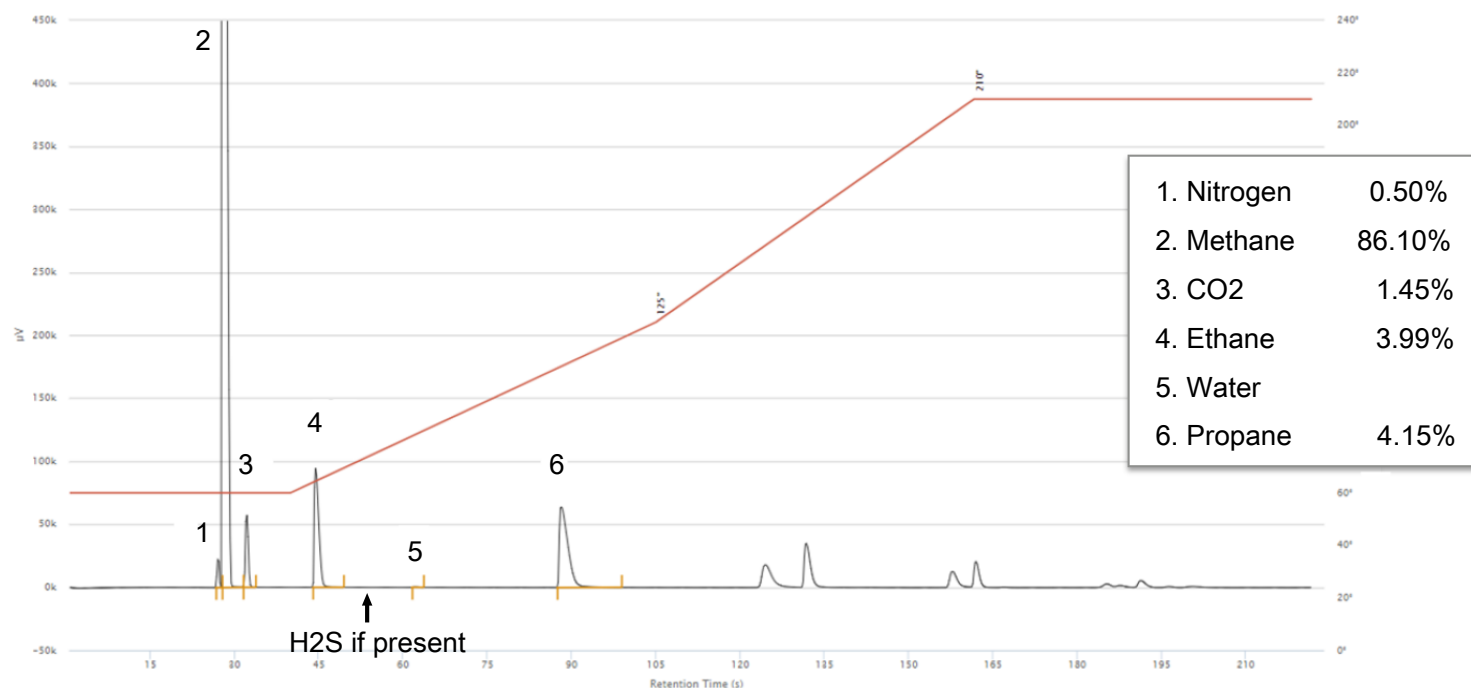
Starting Parameters

These parameters can be used as a starting point for creating a method and can be adjusted to ensure all compounds are fully separated. Exact retention times will vary from GC to GC, but the compound order remains the same.

Method Parameter	Module A - 12m RT-Q-Bond, Fixed Volume Injector (GCMR-RR2)	Module B - 10m Rxi-1ms, Fixed Volume Injector (GCMR-R03)
Inject time	35 ms	35 ms
Injector temperature	100°C	100°C
Column pressure	23 psi, 99.999% helium	23 psi, 99.999% helium
Data rate	100 Hz	100 Hz
Temperature ramp	60°C (40 s) -->125°C (0 s) --> 210°C (30 s), 1°C/s, 1.5°C/s	70°C (40 s) --> 200°C/s (20 s), 0.8°C/s
Sample pump time	25 s	25 s
Sample inlet temperature	100°C	100°C
ISC purge (if installed)	7 s	7 s
ISC flow (if installed)	High	High

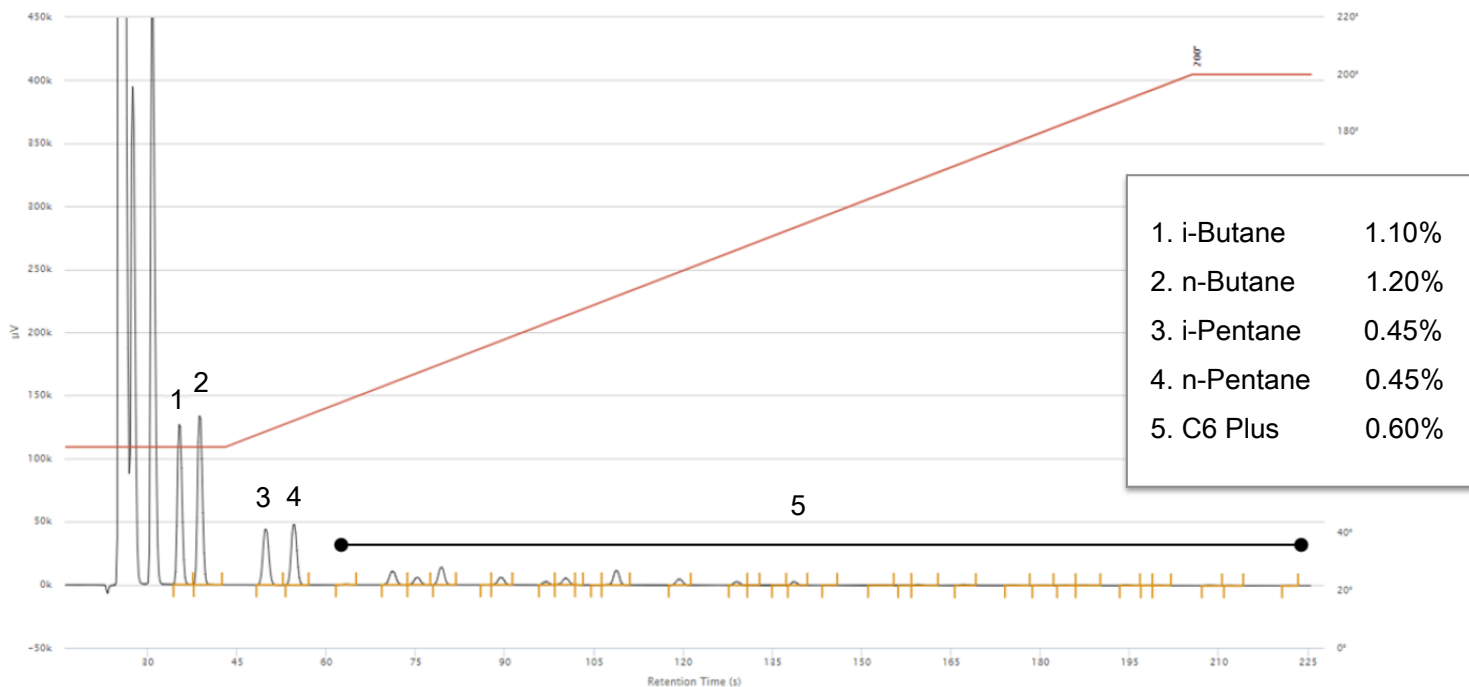
Chromatograms

Module A Chromatogram – 12m RT-Q-Bond, Fixed Volume Injector

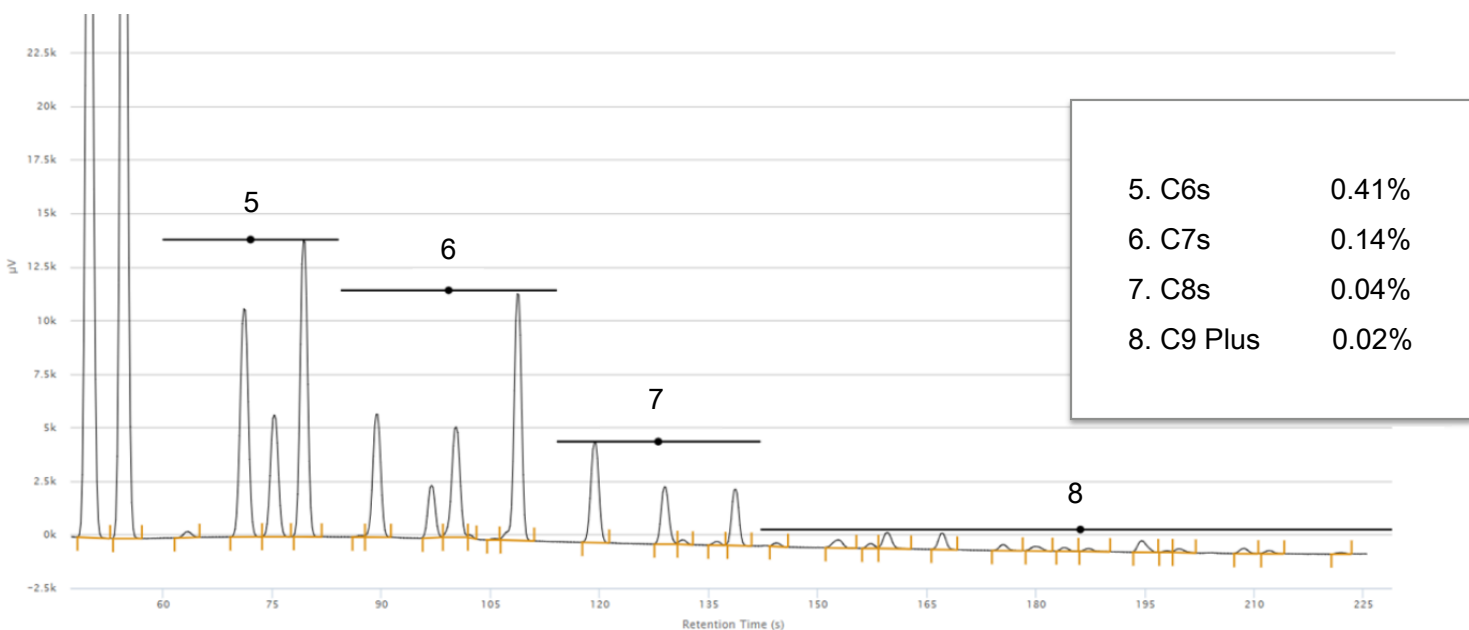


Module B Chromatogram - 10m Rxi-1ms, Fixed Volume Injector

If C6 Plus is required without an advanced hydrocarbon breakdown:



If C6, C7, C8, and C9 Plus groups are required:



The last eluting peak of an isomer group is the “n” isomer. For example, the last peak in the C6 group is n-hexane.