

Extended Analysis of Natural Gas

Configuration of an Agilent Technologies 7890N Series Gas Chromatograph with thermal conductivity and flame ionization detectors (TCD/FID) for the extended natural gas.

Components identified on the FID during method development include:

- C1 through C12 n-paraffins
- Benzene
- Toluene
- Ethyl benzene
- Xylenes

The lower quantifiable limit on the FID is 2 ppm for all components except those eluting on the tail of a major preceding peak.

TCD Determined Components:

- Air composite (oxygen, nitrogen, and carbon monoxide)
- Methane
- Carbon dioxide
- Ethane
- Propane
- Isobutene
- n-Butane
- Neopentane
- Isopentane
- n-Pentane
- Initial C6+ composite backflush to detector

The lower quantifiable limit on the TCD is 400 ppm for all components.