

Application Data Sheet

No. 55

System Gas Chromatograph

Hydrocarbon NGA/RGA Gas Analysis System Nexis GC-2030HNR1 GC-2014HNR1

This method is for determining the hydrocarbons within the composition range shown in the specification sheet. A total of 1 valve and 3 columns are applied in this GC system. Using a pre-column, C6+ components are back-flushed as a single peak. The valve timing then allows the hydrocarbons C1 through C5 to be separated individually by a sebaconitrile packed column and detected by FID. The analysis time is approximately 30 minutes. The system includes Lab-Solutions GC workstation software.

Analyzer Information

System Configuration:

One 10-port valve / three packed columns with one FID detector

Sample Information:

C1-C6

Concentration Range:

No.	Name of Compound	Concentration Range		Detector
		Low Conc.	High Conc.	
1	CH ₄	0.010%	80.0%	FID
2	C ₂ H ₆	0.001%	5.0%	FID
3	C ₃ H ₈	0.001%	5.0%	FID
4	C ₃ H ₆	0.001%	5.0%	FID
5	C ₂ H ₂	0.001%	5.0%	FID
6	i-C ₄ H ₁₀	0.001%	1.0%	FID
7	n-C ₄ H ₁₀	0.001%	1.0%	FID
8	Propadiene	0.001%	1.0%	FID
9	Trans-C ₄ H ₈	0.001%	0.5%	FID
10	1-C ₄ H ₈	0.001%	0.5%	FID
11	Cis-2-C ₄ H ₈	0.001%	0.5%	FID
12	i-C ₅ H ₁₂	0.001%	0.5%	FID
13	n-C ₅ H ₁₂	0.001%	0.5%	FID
14	1,3-C ₄ H ₆	0.001%	0.5%	FID
15	C ₃ H ₄	0.001%	0.5%	FID
16	C ₆ +	0.001%	1.0%	FID

Detection limits may vary depending on the sample. Please contact us for more consultation.

System Features

- Versatile software easy GC system operation
- One FID channel
- Good repeatability

Typical Chromatograms

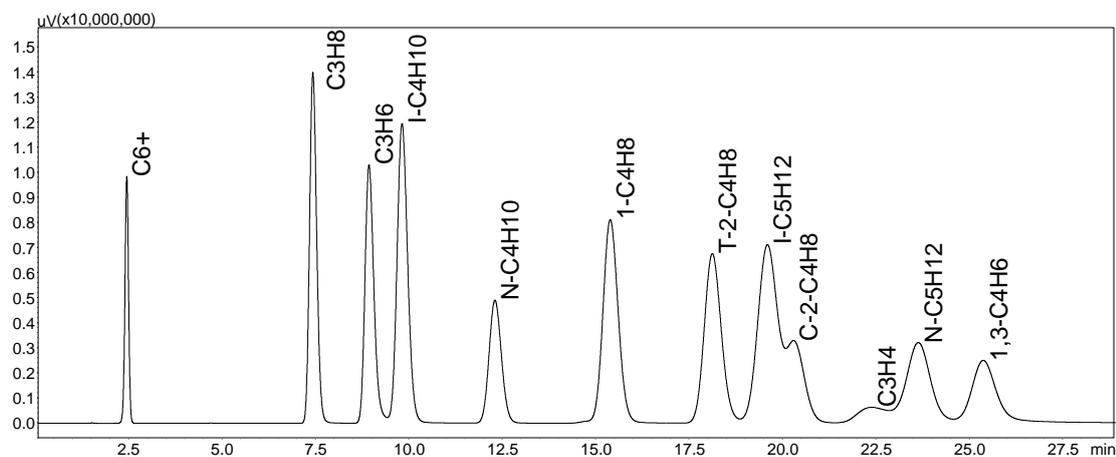


Fig. Chromatogram of FID