

Application Data Sheet

No.52

System Gas Chromatograph

Hydrocarbon Gas Analysis System Nexis GC-2030HCG1 GC-2014HCG1

This method is for determining the hydrocarbons within the composition range shown in the specification sheet. A total of 1 valves and 1 capillary column are applied in this GC system. Sample is introduced into the sample loop and transferred to split/splitless injector, separated by Alumina capillary column and detected by FID. The analysis time is approximately 30 minutes. The system includes LabSolutions GC workstation software.

Analyzer Information

System Configuration:

One valve / one capillary column 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 ₄	0.010%	10.0%	FID
3	C ₂ H ₆	0.010%	10.0%	FID
4	C ₂ H ₂	0.010%	10.0%	FID
5	C ₃ H ₈	0.001%	5.0%	FID
6	C ₃ H ₆	0.001%	5.0%	FID
7	i-C ₄ H ₁₀	0.001%	1.0%	FID
8	n-C ₄ H ₁₀	0.001%	1.0%	FID
9	Propadiene(C ₃ H ₄)	0.001%	1.0%	FID
10	Trans-C ₄ H ₈	0.001%	0.5%	FID
11	1-C ₄ H ₈	0.001%	0.5%	FID
12	i-C ₄ H ₈	0.001%	0.5%	FID
13	Cis-2-C ₄ H ₈	0.001%	0.5%	FID
14	i-C ₅ H ₁₂	0.001%	0.5%	FID
15	n-C ₅ H ₁₂	0.001%	0.5%	FID
16	1,3-C ₄ H ₆	0.001%	0.5%	FID
17	C ₃ H ₄	0.001%	0.5%	FID
18	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

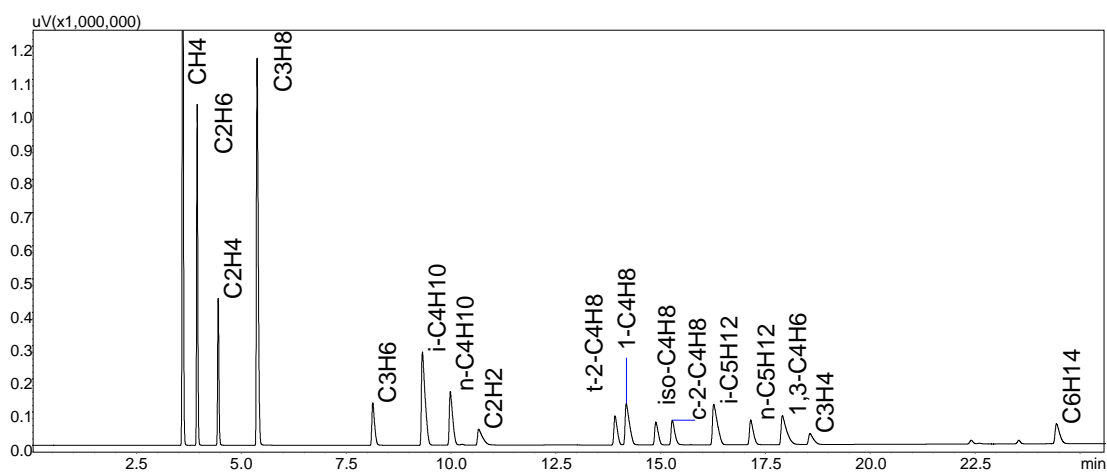


Fig. Chromatogram of FID