

Application Data Sheet

No.65

System Gas Chromatograph

Trace CO and CO₂ Analysis System Nexis GC-2030TCC GC-2014TCC

This system is designed to measure trace amount of carbon monoxide (CO), methane (CH₄) and carbon dioxide (CO₂) in a gas sample. The sample is loaded into a loop and injected through a 10-port valve automatically. CO and CO₂ are reduced to CH₄ by means of nickel catalyst and detected by flame ionization detector (FID).

Analyzer Information

System Configuration:

Three valves / Five packed columns with one FID detector with MTN

Sample Information:

CO, CO₂, CH₄

Methods met:

ASTM-D2504

Concentration Range:

No.	Name of Compound	Concentration Range		Detector
		Low Conc.	High Conc.	
1	CO	0.5ppm	100ppm	FID+MTN
2	CO ₂	0.5ppm	100ppm	FID+MTN
3	CH ₄	0.5ppm	2000ppm	FID

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

System Features

- 20 minutes analysis for CO, CO₂ and CH₄ analysis can be carried out
- FID channel
- Good repeatability

Typical Chromatograms

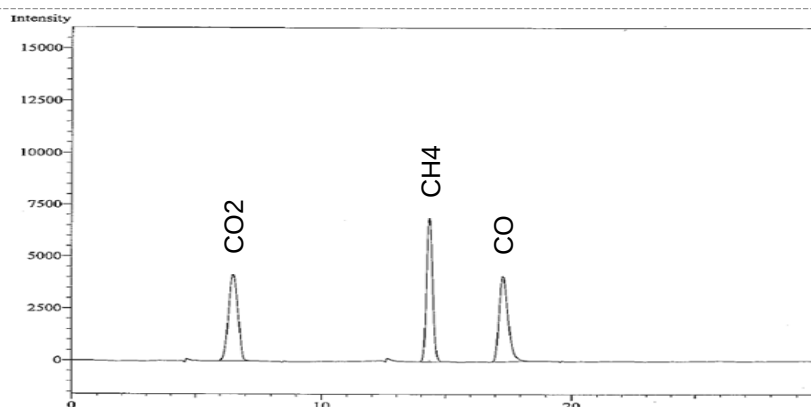


Fig. Chromatogram of FID