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Application Data Sheet

No.80

System Gas Chromatograph

O_2 – CO, Ar Analysis System
Nexis GC-2030PNC
GC-2014PNC

This instrument is designed for determining the permanent gas and methane within the composition range shown in the specification sheet.
A total of 3 valves and 5 columns are used in this GC system. The sample is loaded into two sample loops for determination. O2 is detected by TCD-1, the valve timing then allows the other components to be separated individually by a Porapak-N and MS-5A column and to be detected by TCD-2. The system includes LabSolutions workstation software and BTU and Specific Gravity calculation software.

Analyzer Information

System Configuration:
Three valves / five packed columns with two TCD detectors

Sample Information:
O_2, N_2, Ar, CO, CH_4

Concentration Range:

No.	Name of Compound	Concentration Range		Detector
		Low Conc.	High Conc.	
1	Ar+O2	0.05%	30%	TCD-2
2	N2	0.05%	100%	TCD-2
3	CH4	0.05%	90%	TCD-2
4	CO	0.05%	30%	TCD-2
5	O2	0.05%	30%	TCD-1
6	Ar	0.05%	30%	TCD-2

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

System Features

- Versatile software easy GC system operation
- One TCD channel or two FID channels
- Good repeatability

Typical Chromatograms

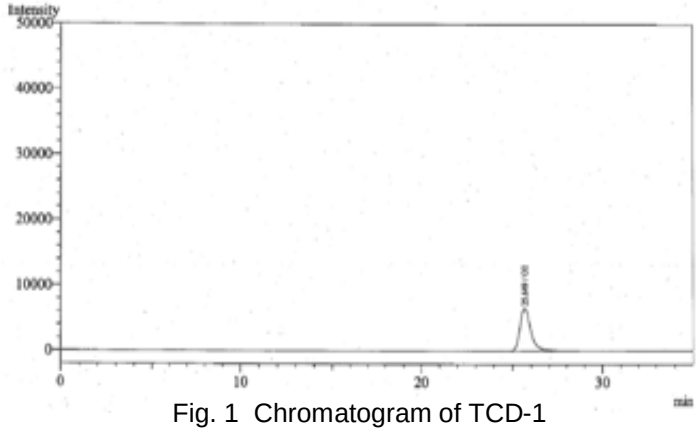

Fig. 1 Chromatogram of TCD-1

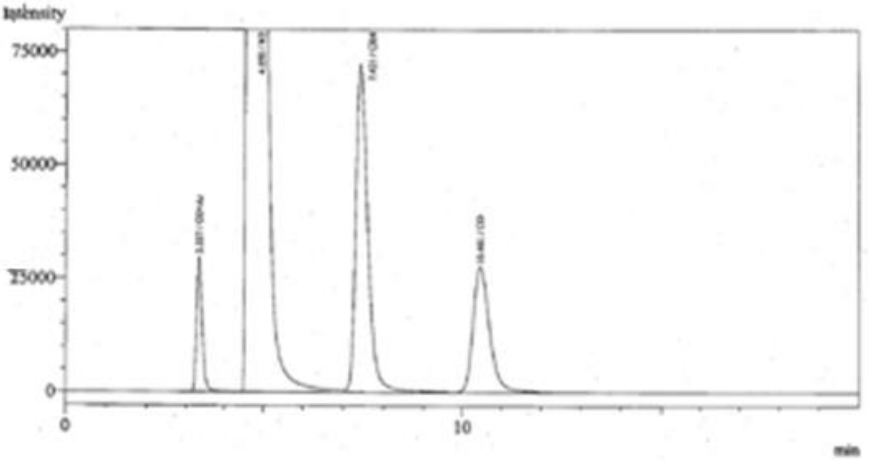

Fig. 2 Chromatogram of TCD-2

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Shimadzu Corporation
www.shimadzu.com/an/