

# Micro GC

Micro-machining  
 Detector) Injector  
 GC 10 1  
 GC  
 가 TCD (Thermal Conductivity  
 Micro Gas Chromatograph (Micro GC)  
 가  
 1ppm 100%

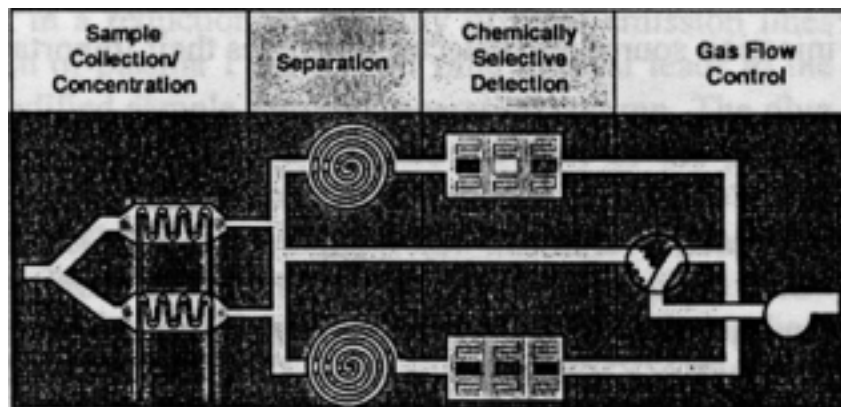


Fig. 1

Fig. 1 Sample Collection / Concentration Section Inlet  
 Sample Diffusion  
 Injector 4  
 Channel Separation  
 Separation Column Glass Chip Micro-  
 machining 가

Pattern

Gas

Flow가 Control

Micro GC

Detector

Micro TCD

Thermal time

constant가 0.5msec

Response time

가

Separation

Column

GC



Fig. 2

Fig. 2 Micro GC



Fig. 3

Micro-machining

Injector

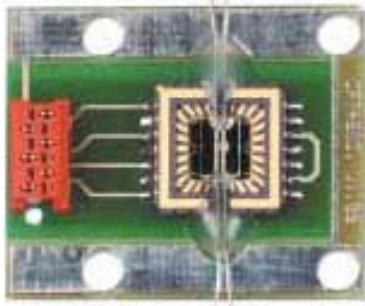


Fig. 4

Fig. 4 Separation 200nl Micro Thermal Conductivity Detector (Micro TCD) .

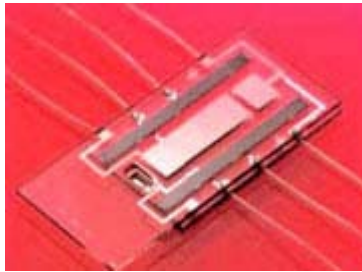


Fig. 5

Fig. 5 Detection level Micro Differential Mobility Detector (Micro DMD) Set .

- 가 , Micro GC

- Micro GC . Compact

Micro GC Lab-quality gas

Lab 가 .

, , Column, ,

- Micro GC

가

15

가

- 가 (Refinery Gas)
- (Fuel cell)
- 가 (Industrial Gases)
- 가 (Natural Gas)

가 가

Column

Micro GC

GC

Micro GC

가

가

GC

Column

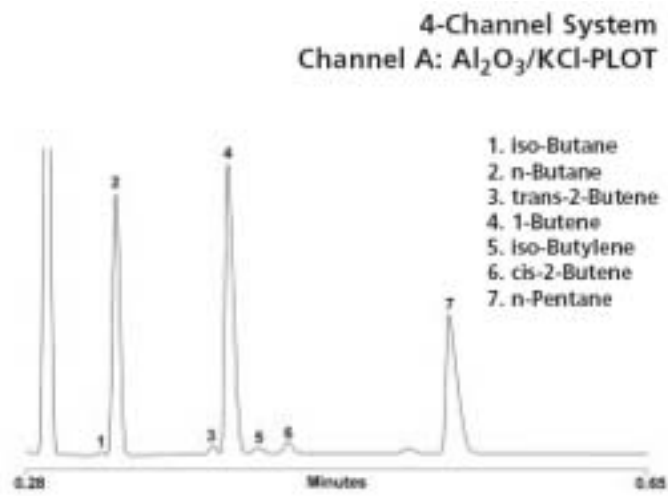
가

가

가 Micro GC

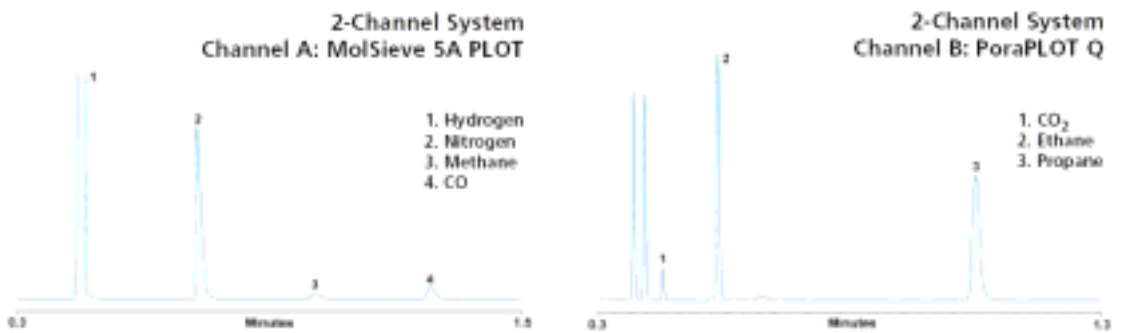
가

가 (Refinery Gas)



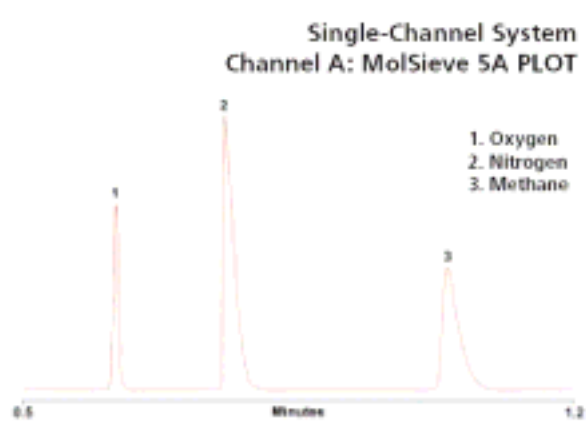
4 H<sub>2</sub>, N<sub>2</sub>, CO, CO<sub>2</sub>가 가 (Refinery gas) 4  
GC . A .

(Fuel cell)

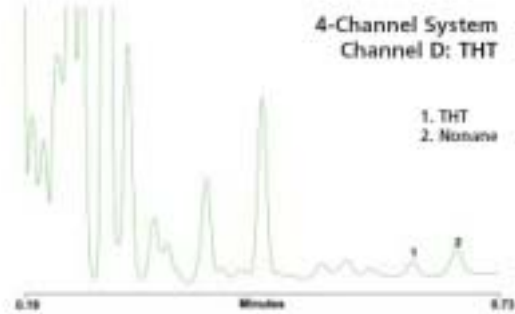
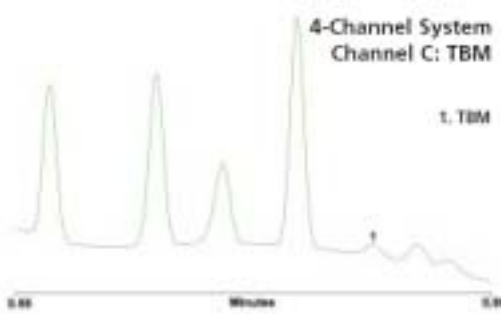
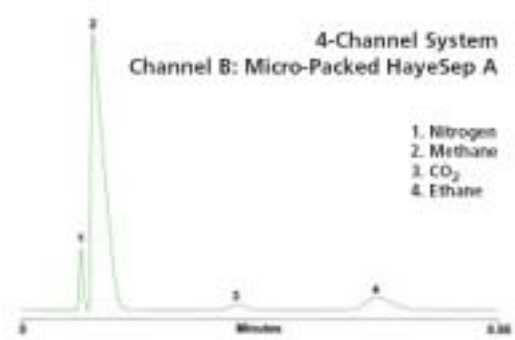
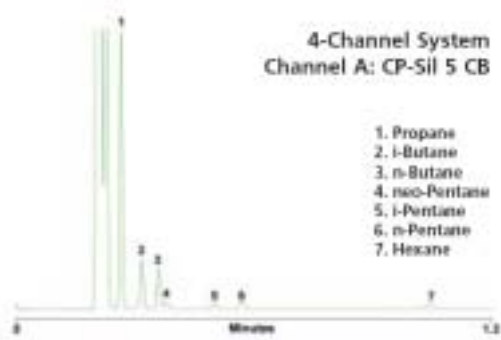


2 Micro-GC :

가 (Industrial Gases)



가



4

90

가 (Natural

Gas) 가 .