

## Gas Chromatography

### Applications for Process and Laboratory

#### Monitoring of Sulfur Constituents

In various manufacturing processes as well as in natural products such as Natural Gas, a variety of sulfur components are present and can eventually be emitted or adversely affect process efficiency. Monitoring of these constituents can be mandatory or at least highly recommended.

The described analytical system using a Process Gas Chromatograph permits the monitoring of several sulfur constituents in hydrocarbon backgrounds at low ppm / high ppb level.

Because the reactivity of these components, surface interaction has to be limited with appropriate materials the sample is coming in contact with.

By using the LIVE-Injection method, the normally occurring memory effects in the injection system can be minimized. The “valveless” LIVE column-switching system and capillary columns provide an inert separation system from the injector to the glass jet of the Flame Photometric Detector.

**Analytical System:**

**GC:** PGC x02, MAXUM

**Injection:** Vapor, Liquid

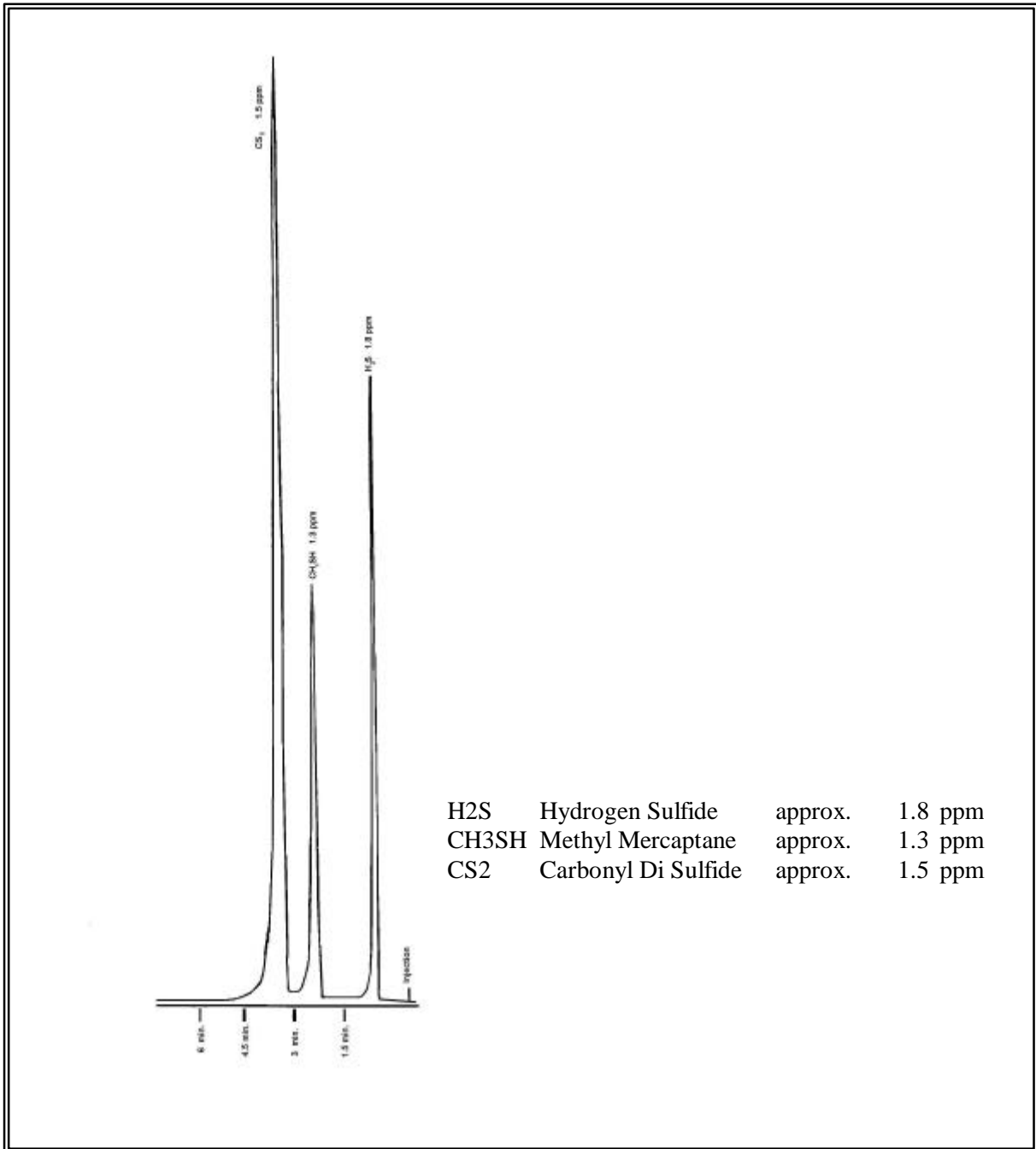
**Columns:**  
Capillary Columns

**Column Switching:**  
Valveless “LIVE”  
Column Switching

**Detector:**  
Flame Photometric  
Detector

**Specialty:**  
LIVE-Injection,  
ppb Sensitivity

# SIEMENS



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