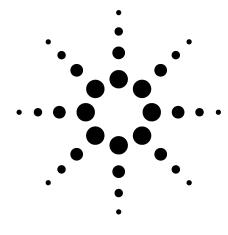
Application 583D-00 Agilent Fast Refinery Gas Analyzer

Technical Overview





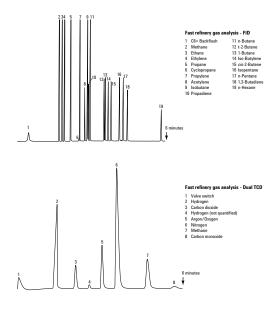
Application Highlights

- Expect an analysis time of approximately 6 minutes.
- A Flame Ionization Detector (FID) to detect the C1 through C7 paraffins and olefins to a lower detection limit of 20 ppm, except for trace peaks eluting on the tail of a major component.
- A Thermal Conductivity Detector (TCD) is used to detect hydrogen in a nitrogen carrier to a lower detection limit of 100 ppm.
- A second TCD is used to detect carbon dioxide, ethane, ethylene, acetylene, hydrogen sulfide, O₂/Ar, nitrogen, methane, and carbon monoxide to a lower detection limit of 200 ppm except for carbon monoxide (400 ppm), and hydrogen sulfide (500 ppm).

Optional Configurations

- Refinery gas analysis with trace sulfurs by FPD or SCD
- Additional boiling point column for the analysis of heavy hydrocarbons (C1–C30)
- Standard analysis with the addition of trace CO by methanizer
- Custom analyzer for performing ASTM D2163, ASTM D1945, ASTM D2712, and ISO 7941
- · High temperature injection for heavy fractions
- High temperature reactor effluent with percent level water
- TCD/TCD/MSD for the analysis of reactor effluent gases
- Valves for the injection of pressurized liquid samples.





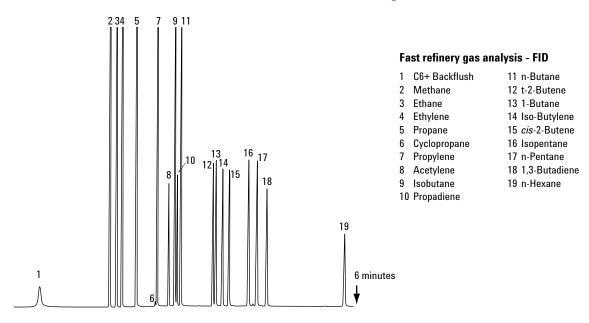
For More Information

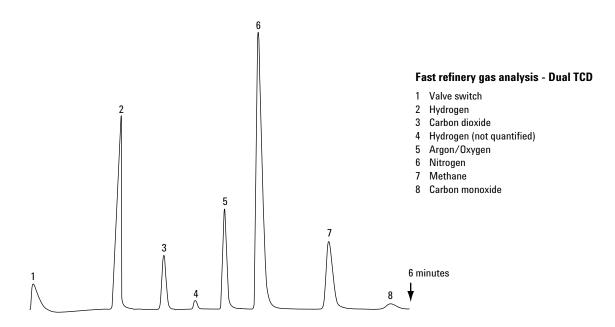
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FID and TCD output from Agilent Fast Refinery Gas Analyzer.

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