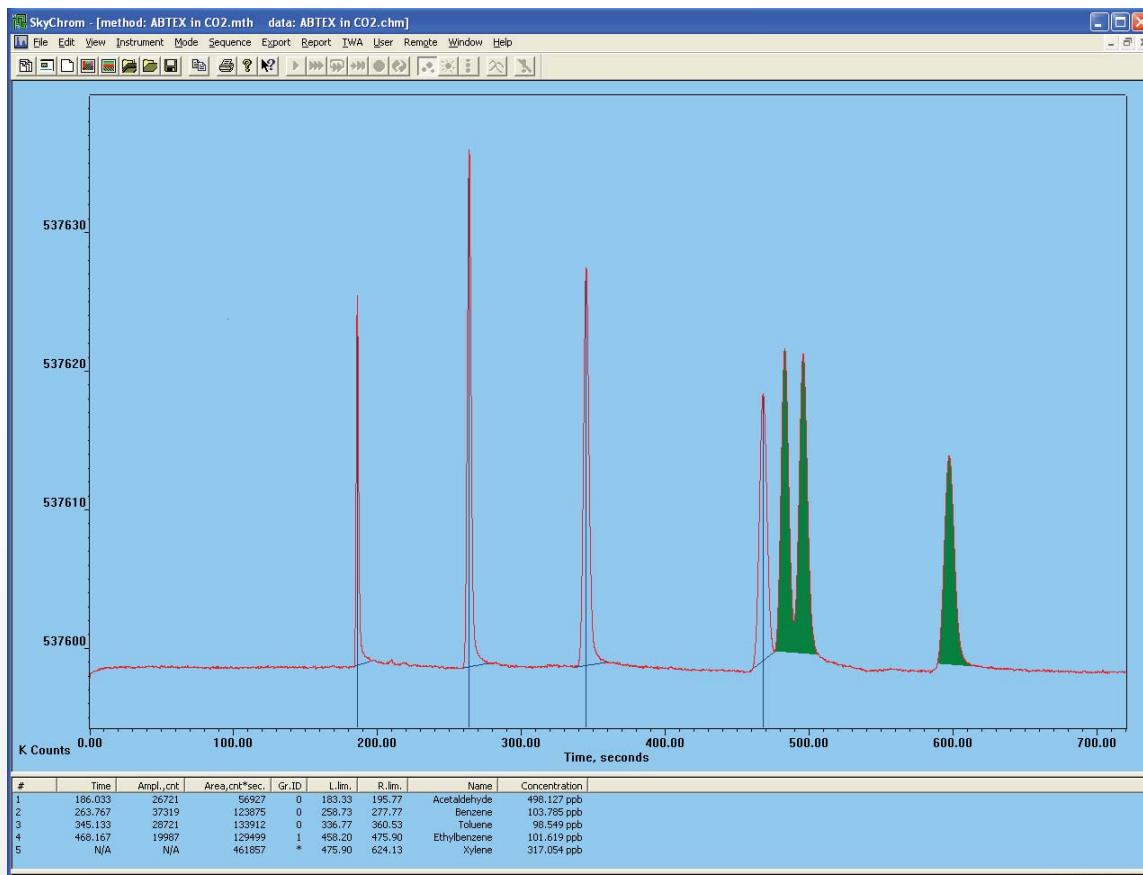
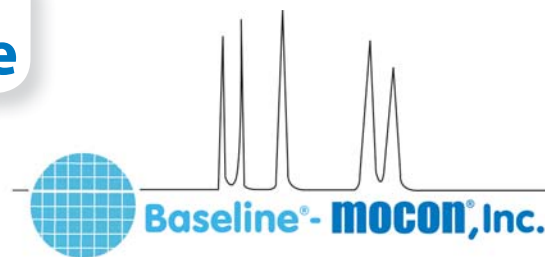


Acetaldehyde, Benzene, Toluene, Ethylbenzene & Xylenes in CO₂



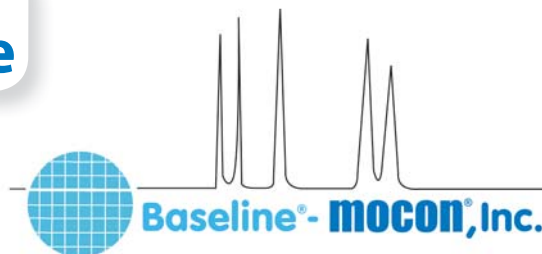
Application

The BevAlert Model 8900 provides direct measurement of Acetaldehyde, Benzene, Toluene, Ethylbenzene, and Xylenes (ABTEX) in Carbon Dioxide.

The instrument is utilized by Specialty Gas Manufacturers and the Food and Beverage Industry to monitor trace volatile organic compounds in CO₂ used in bottled beverages.

The BevAlert Model 8900 employs a photoionization detector (PID) as the sensing element. This detector is specific to volatile organic compounds. The ABTEX in the gas sample are physically separated using proprietary GC columns. A dual column configuration with timed backflush to vent is used to strip off moisture and heavier hydrocarbons. A pre-cut column is used in series with the analytical column. At sample injection, a fixed volume of sample is carried to the pre-cut column. The backflush is timed so that only the ABTEX and other similar components are eluted to the analytical column. Contaminants on the pre-cut column are simultaneously backflushed to vent. Acetaldehyde, Benzene, Toluene, Ethylbenzene, and Xylenes are separated from potentially interfering components on the analytical column and elute to the detector for analysis.

Acetaldehyde, Benzene, Toluene, Ethylbenzene & Xylenes in CO₂



Analysis

- Analysis Time: 720 seconds
- Detector: PID (FID Optional)
- Column: Capillary
- Oven Temperature: 85 °C
- Carrier Gas: Nitrogen, 20 cc/min

Features

- Direct measurement of Acetaldehyde, Benzene, Toluene, Ethylbenzene and Xylenes in CO₂
- Automatic restart for unattended operation
- Automatic baseline adjustment for long-term stability
- Local and remote calibration
- Analog outputs for Acetaldehyde, Benzene, Toluene, Ethylbenzene, Xylene concentrations
- Analog output ranges are user selectable
- Concentration and diagnostic alarm relays
- RS-232, LAN

Specifications

Lower Detection Limit: <1 ppb Benzene

Accuracy: 1% of Full-scale

Precision: 2% of Measured Value

Span Drift (24HR): <2% of Full-scale

Sample Flow Rate: 500cc/min, typical

Output:

Analog: (5) 0-20ma or 4-20ma loop power supplied, isolated. Selectable for: gas concentration, unintegrated detector signal. Up to 16 additional programmable 0-20ma, 4-20ma or voltage outputs: 0-1V, 0-5V, or 0-10V.

Digital: RS-232, LAN

Relays: (5) User programmable relays for concentration and diagnostic alarms. Up to 32 additional relays available.

A010.2

P.O. Box 649, 19661 Highway 36 • Lyons, CO 80540

P: 1.800.321.4665 • 1.303.823.6661 F: 303.823.5151 E: Sales@BaselineIndustries.com