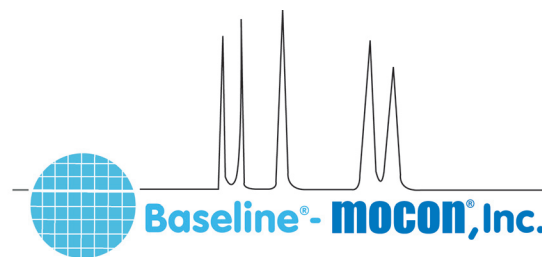


Series 8900GC Application Note

Methyl Bromide in Air

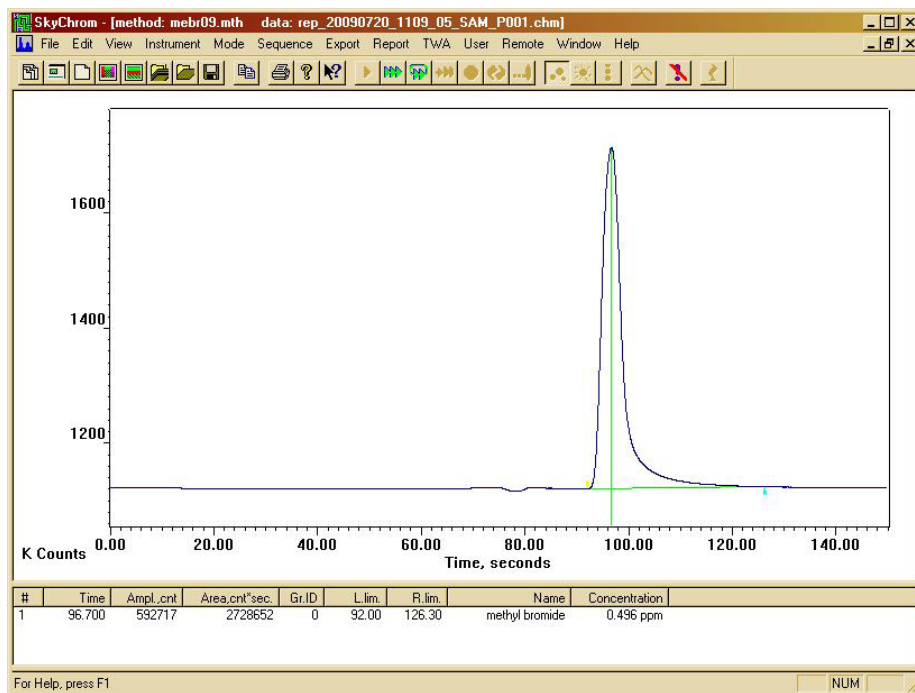


Analyzer

The Series 8900 Methyl Bromide Monitoring System provides an automated, direct measurement of Methyl Bromide in ambient air. This instrument can meet and exceed the requirements for ambient methyl bromide monitoring. It is utilized in fumigation facilities and industrial plants to detect potential worker exposure to methyl bromide, resulting from mechanical failure, human error or product off gasing. Multipoint sampling options allow the analyzer to monitor multiple sample locations for greater coverage.

The advantage of this system is that is both specific and sensitive to low levels of methyl bromide from less than 0.05 ppm and greater than 20ppm. It provides automatic calibration to verify accuracy. Multi level alarm setting and software for data collection and report generation is also included. RS-232 and LAN connections can be set up for a local graphic PC display and control as well as remote graphic data display by any PC on the network.

The Series 8900 Methyl Bromide Analyzer uses a photoionization detector (PID) for exceptional sensitivity. To be specific to methyl bromide, a pre-cut column is used with an analytical column and a timed backflush to strip off moisture and heavier hydrocarbons. Methyl Bromide is physically separated from potentially interfering components on the analytical column and quantified by the detector.



Application

- Monitoring workplace exposure limits in fumigation facilities

Features

- Direct measurement of Methyl Bromide
- Interference free response
- Automatic calibration for unattended operation
- Automatic baseline adjustment for long-term stability
- Analog output ranges are user selectable
- Multipoint sampling options
- Summary or TWA report generation
- Graphic display of current or historical concentrations
- Relays for external alarms and diagnostics
- RS-232 and optional LAN

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Methyl Bromide in Air



Specifications

Analysis Time: <120 seconds

Detector: PID

Column: Capillary

Oven Temperature: 70°C, Nominal

Carrier Gas: Nitrogen, 6cc/min, Nominal

Lower Detection Limit: 10 ppb Methyl Bromide

Accuracy: 1% of Full-scale

Precision: 2% of Measured Value

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

Sample Flow Rate: 250-500cc/min, typical

Output:

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

Digital: RS-232, optional Local Area Network

Relays: (5) User programmable relays for concentration and diagnostic alarms (1A @ 30Vdc). Options for up to 32 additional relays available.

Inputs: Optional digital input board for 3 contact closure inputs. Supports start analysis, start calibration, and analyze calibration gas sample.

This application note is an only an example based on customer or market specifications. These parameters are variable and therefore do not reflect all of the versatility and options of Series 8900 GC. Please contact Baseline regarding your specific application

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