

Benzene

52 ppb



Toluene

48 ppb



CTFE

48 ppb



Ethylene oxide

25 ppb



Gas analysis and detection

Don't miss out. **MAX** out.

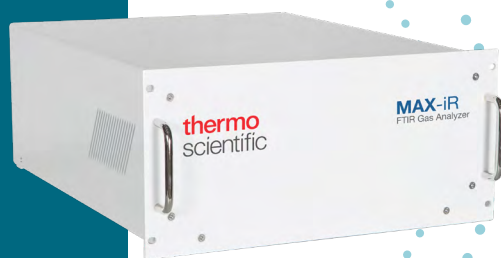
Ultra-fast gas analysis with ultra-low  
detection limits

# Ultra-fast gas analysis with ultra-low detection limits

The Thermo Scientific™ MAX-iR™ FTIR Gas Analyzer with optical enhancement (OE) technology is one of the most sensitive FTIR gas analyzers available. It routinely measures contaminants down to single-digit parts per billion (ppb) and for some high-purity gas applications can even measure down to mid parts per trillion (ppt).

The real-time measurement capability of the MAX-iR OE-FTIR analyzer extends beyond the lab environment. It is routinely deployed for industrial challenges such as ambient air and source testing. Its remarkable sensitivity, combined with real-time response, results in a more efficient system than traditional GC gas analysis systems.

This collection of articles, application notes, and white papers goes into depth about this system, covering topics ranging from general aspects of the MAX-iR FTIR Gas Analyzer to its use on specific difficult-to-measure chemicals.



# Learn more about real-time measurement capabilities using OE-FTIR

## Article insights

### Key FTIR gas applications

Current trends, and the future of the technology

### Industrial gas analysis with a disruptive new technology

The main advantages of the MAX-iR Gas Analyzer

### The challenges of toxic gas trace analysis

Obtaining fast and robust HAP measurements

### Top tips to select a gas analyzer for trace toxic gases

Monitoring hazardous air

### Advancements in FTIR gas analyzers

Faster analysis and a lower cost of ownership

### The advantages of monitoring ethylene oxide with OE-FTIR

Ethylene oxide monitoring

### Real-time analysis of hazardous air pollutants with ultra-low detection limits

A fast, efficient alternative

## Application notes and white papers

### Beverage-grade carbon dioxide purity analysis

Thermo Scientific  
MAX-Bev™ CO<sub>2</sub> Purity  
Monitoring System

### Ethylene oxide continuous emissions monitoring by OE-FTIR

Thermo Scientific EMS-10™  
Continuous Emissions  
Monitoring System

### Measuring destruction efficiency of greenhouse gases by semiconductor fabrication tools

MAX-iR FTIR Gas Analyzer  
Monitoring System

### Real-time formaldehyde monitoring from natural gas-fired turbines

MAX-iR FTIR Gas Analyzer

### Ambient air toxics monitoring

Thermo Scientific  
MAX-iAQ™ Air Quality  
Monitoring System

### Service and support

Enjoy peace-of-mind and maximum uptime with top-notch customer service, technical support, and on-site support. Our comprehensive service programs are designed to quickly and flexibly respond to your varied needs.

### Application support

Connect with our experts to discuss your application challenges and get your questions answered. Together we will gather and analyze the necessary instrument data, schedule results reviews, recommend adjustments, and address concerns and questions.

### Training courses and webinars

Expand your knowledge and gain new skills by participating in our comprehensive training programs, webinars, and gas analyzer courses available remotely and in various locations around the world.

### Join our community

Sign up to stay up-to-date on new products, application solutions, and upcoming events at [thermofisher.com/maxoptin](https://thermofisher.com/maxoptin).



MAX-iR FTIR  
Gas Analyzer




MAX-iAQ FTIR Ambient Air  
Monitoring System



EMS-10 Continuous Emissions  
Monitoring System



MAX-Bev CO<sub>2</sub> Purity  
Monitoring System

 Don't miss out. MAX out.  
Learn more at [thermofisher.com/max-ir](https://thermofisher.com/max-ir)

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