

The FROG-5000™ is a portable gas chromatograph (GC) that identifies multiple target volatile organic compounds (VOC) in water, soil, and air. The FROG-5000™ detects chemicals as volatile as vinyl chloride to semi-volatile organics such as naphthalene with lab quality results.

Featuring a MEMS (micro electro-mechanical systems), the FROG-5000™ has an integrated heater for temperature ramp chromatography – ramping the temperature reduces the analysis time and aids in the separation of late eluting compounds. These components combined with an internal PID identify VOCs in ambient air at concentrations as low as 1 part per billion.

## FEATURES

- The lightest portable GC - weighs less than 5 lbs.
- Enhanced target analysis in less than 10 minutes
- Optimize real-time chromatogram view on PC
- Flexible operation in lab or field
- Intuitive operational design
- Screen, confirm, and qualify with Ellvin™ chromatography software
- Instrument innovation using Micro Electro-Mechanical Systems (MEMS)
- Detection of VOC analytes with ionization below 10.6eV

## APPLICATIONS

- Environmental Remediation
- Emergency Response
- Indoor Air Quality
- Leak Detection
- Soil Vapor Extraction
- Vapor Intrusion
- Soil Characterization
- Superfund Cleanup
- Compliance Monitoring
- Process Monitoring
- Groundwater Monitoring
- Site Assessment
- Site Characterization
- Brownfield Remediation



**CALL GEOTECH TODAY (800) 833-7958**

**Geotech Environmental Equipment, Inc.**

2650 East 40th Avenue • Denver, Colorado 80205  
(303) 320-4764 • FAX (303) 322-7242  
email: sales@geotechenv.com • website: www.geotechenv.com

### CHEMICALS COMMONLY DETECTED

- Benzene
- Toluene
- Ethylbenzene
- Xylenes
- Vinyl Chloride
- Trans-1, 2-Dichloroethene
- cis-1, 2-Dichloroethene
- Trichloroethene (TCE)
- Tetrachloroethene (PCE)
- Chlorinated Alkenes
- Naphthalene
- Also many other solvents



### SPECIFICATIONS

Chemical Detection Range	Vinyl Chloride (MW 62.5)	2-Methyl Naphthalene (MW 142.2)
Boiling Point @ 1 atm	-13.3°C	244.7°C
Vapor Pressure @ 25°C	2980 mmHg	0.067 mmHg

#### Instrument Specifications

PID Lamp	10.6 eV energy
GC Column	5.2 meter
Weight	4.8 lbs.
Dimensions	11 x 7.75 x 12 inches
Battery Life	Nine hours, or external power
Interface	Standard RS-232 port

### CALL GEOTECH TODAY

**(800) 833-7958**

#### Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205  
 (303) 320-4764 • FAX (303) 322-7242  
 email: sales@geotechenv.com • website: www.geotechenv.com