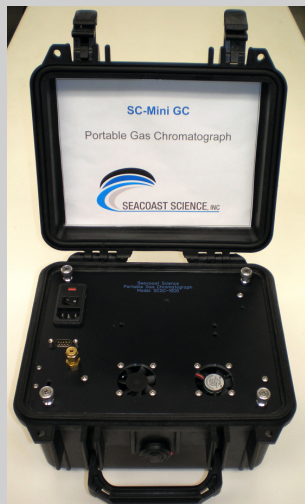


## SeaPORT Mini-GC Portable Gas Chromatograph



### Features:

- Low power requirements
- Direct injection or automated sampling
- Ambient air used as carrier gas
- No consumables
- Small internal volume
- MEMS based technology
- 10 minute scanning for most analytes
- 5 minute wait time between samples
- Rugged design and MilSpec casing
- Interface with any laptop
- Seacoast's polymer coated columns
- Portable and lightweight design
- Easy to use with standardized software
- Tailored for your application

**Seacoast Science, Inc.** is leading the way in field portable Gas Chromatography. Our SeaPORT Mini-GC features an oven-less heating technology with fast heat up and fast cool down times. The sensing is performed by our micromachined (MEMS) proprietary sensor array technology and integration platform. The Mini GC system uses ambient air as the carrier gas - reducing the need and cost of consumables plus many other great features that add ease-of-use and flexibility. The Mini-GC will boost productivity by bringing the tools to the field thus providing shorter analytical cycle times with outstanding performance in areas with more demanding samples and applications. The miniature Gas Chromatograph instruments are ideal for use in security and safety, industrial processing, mining and environmental, laboratories and quality control applications. Ask us how we can tailor our Mini-GC for your specific applications.

### SPECIFICATIONS

Type	SeaPORT Mini-GC
Carrier Gas Required	None
Detection Principle	MEMS Chemicapacitive Sensor Array with ppm sensitivity and customized interface
Size/Weight	Small/ 3.1 Pounds
Detection Level	0.1ppm
Dynamic Range	0.1 - 500 ppm
Ease of Use	Simple
Operating Temp.	5°C to 40°C
Operating Humidity	0 to 90%, non-condensing
Dimensions (Display Module)	L9.0 x W11.0 x H5.0 in.
Fixed Volume Injection Capability	0.5 - 20 microliter
Warranty	One Year Parts and Labor
Accessories	AC Adapter, carrying case, 9V Battery, RS-485 Output, Laptop Computer

2151 Las Palmas Drive, Suite C  
Carlsbad, CA 92011  
(760) 268-0083  
(760) 268-0662 - Fax

[www.seacoastscience.com](http://www.seacoastscience.com)

Contact Seacoast Science to see how our prototypes can be tailored to meet your specific chemical detection needs.

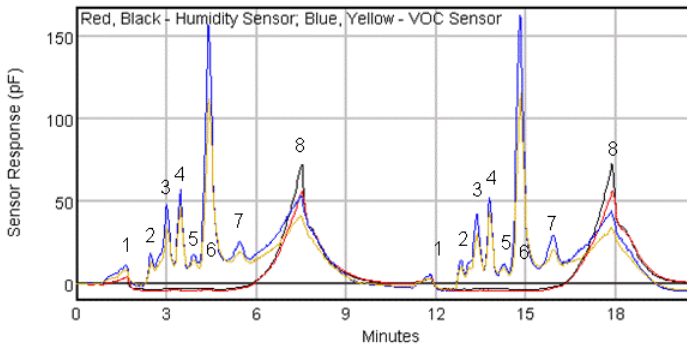


SEACOAST SCIENCE, INC

A CHEMICAL SENSOR COMPANY

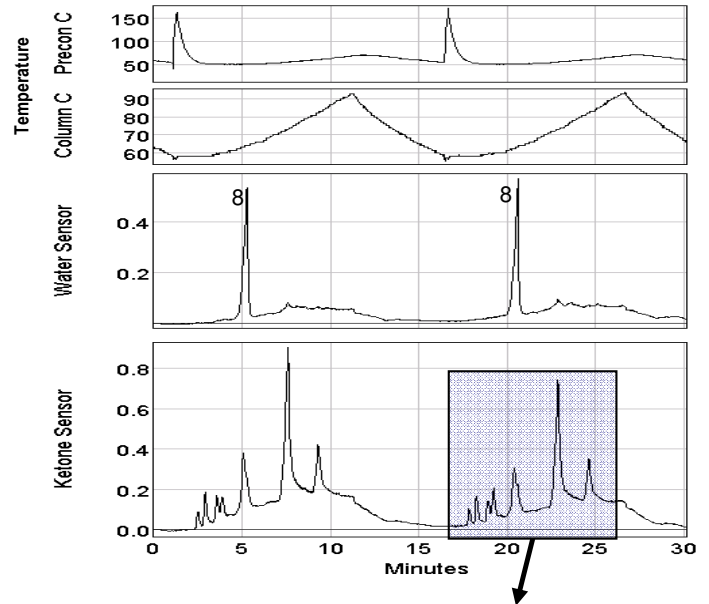
### SeaPORT Mini-GC Portable Gas Chromatograph

#### Vapor Collection – 2 Cycles

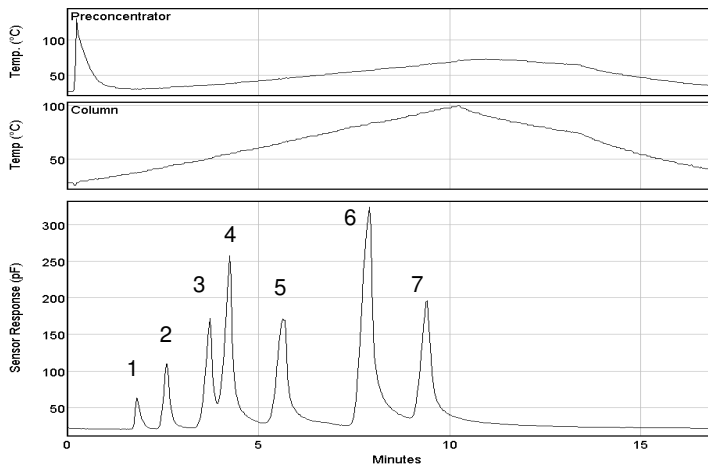


A chromatograph of 2 ten-minute cycles from gas phase sampling. Seven chemical vapors plus moisture from lab air are detected by the sensors. 1) THF, 2) Acetone, 3) Methanol, 4) Ethyl Acetate, 5) IPA, 6) Pentanone, 7) Toluene, 8) Water

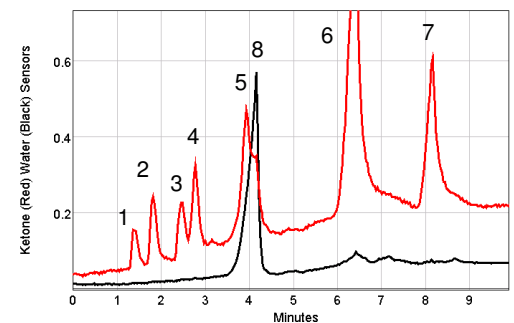
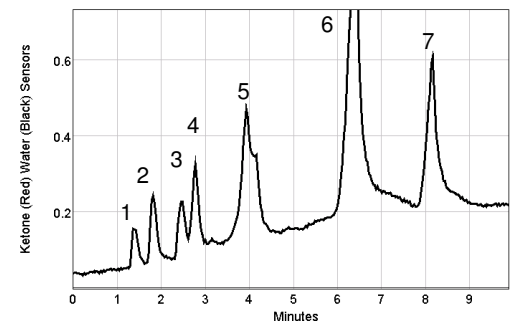
#### Vapor Collection – Ketone Mix



#### Direct Injection - Ketone Mix



Direct injection of a seven ketone mix. Ketones tested: 1) Acetone, 2) Methyl Ethyl Ketone, 3) Pentanone, 4) Isopentanone, 5) Hexanone, 6) Heptanone, 7) Octanone, 8) Water.



Vapor Collection of a seven ketone mix. Seacoast's sensor array technology allows water to be separated from the ketone samples allowing proper peak integration. Ketones tested: 1) Acetone, 2) Methyl Ethyl Ketone, 3) Pentanone, 4) Isopentanone, 5) Hexanone, 6) Heptanone, 7) Octanone, 8) Water.

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