

### SICRIT® GC/SPME Module



#### Simple. Smart. Sensitive.

The SICRIT® GC/SPME module combines the SICRIT® ionization technology with state-of-the-art sample separation and/or enrichment techniques enabling GC- and SPME-MS coupling.

*The SICRIT® GC/SPME module brings state-of-the-art sample enrichment and separation to your MS.*

The key feature of the module is the special design of the inner vaporizer unit where thermo-desorption of the introduced analyte molecules takes place. The implemented carrier gas supply ensures a defined atmosphere and loss-free transport of the analytes into the SICRIT® ion source, allowing for sensitive and quantitative trace analysis in numerous fields of application.

#### SICRIT® Technology

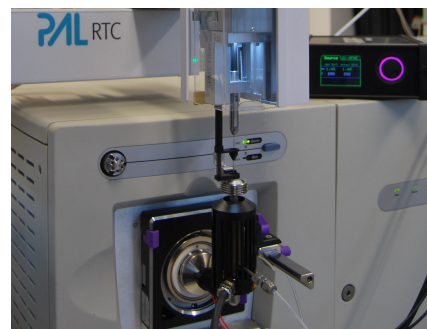
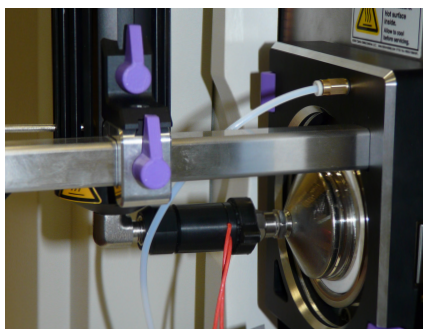
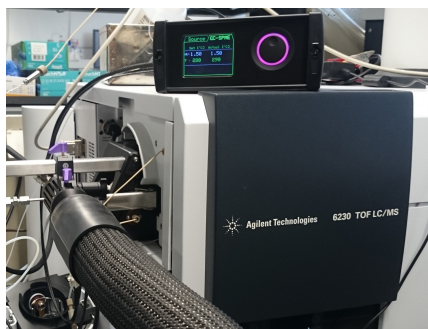
The SICRIT® (soft ionization by chemical reaction in transfer) is the a real flow-through soft ionization technique for ambient pressure ionization (API) mass spectrometry (MS) instruments. The patented design of the ion source converts any MS into a sensitive and selective electronic nose, opening unlimited online-measurement capabilities to your MS. The combination with the SICRIT® GC/SPME module enables direct SPME-SICRIT®-MS measurements as well as direct coupling with any GC system for soft ionization GC-SICRIT®-MS measurements. Thus, SICRIT® features the full scope of qualitative, quantitative and structural analysis, providing an easy plug&play solution for almost every analytical task and analyte.

#### SICRIT® Advantages

- Adaptable to all available API mass spectrometers
- Direct manual or automated quantitative SPME-MS measurements
- Sensitivity down to ppq level
- Soft ionization with broad analyte range
- Flexible interfacing of any GC with your MS
- Robust 24/7 operation
- Expert manufacturer support

#### Intended Fields of Application

The SICRIT® GC/SPME module is intended for use in combination with the corresponding SICRIT® SC-20X ionization set. It provides an all-in-one SICRIT®-MS-approach showing unique benefits in comprising analyte enrichment, separation, soft ionization, and ultra-sensitive detection.



## Technical Data and Specifications

### SICRIT® GC/SPME Module

Dimensions / Weight	110 x 150 x 50 mm / 0.5 kg
Supply Voltage	220-240 V, 50-60 Hz, 100 W (supplied by control unit SC-20)
Maximum Operation Temperature	320 °C
Possible Carrier Gases	Air, N <sub>2</sub> , CO <sub>2</sub> , He or dopant mixtures (contact manufacturer for further information)
GC-MS Connection	To connect the module with GC instruments, a heated transfer line e.g. Plasmion's TCMX-10-HAT is required
SPME Injection	Adapter for manual SPME fiber holder (Supelco®, 24 gauge) or Adapter for automated SPME fiber/arrow injection (CTC PAL systems) (included)

## Further Reading

### Technical Note

TN\_01 SICRIT®: Soft Ionization by Chemical Reaction in Transfer

### Product Note

PN\_02 SICRIT® SC-20X Ionization set

### Application Notes

AN\_01 Chemical Warfare Agents – Direct SICRIT®-MS Analysis

AN\_02 Coffee Aroma Profiling – Direct SICRIT®-HR-MS

AN\_03 SICRIT®-MS New Workflows in MS-based Analysis