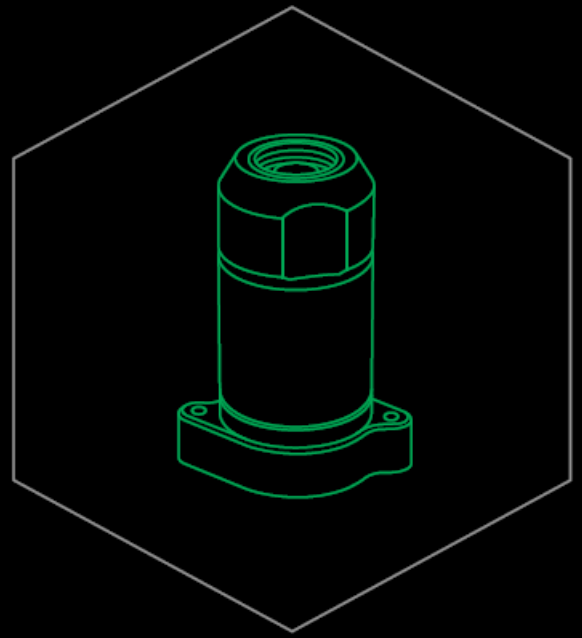
WELCOME TO THE SICRIT UNIVERSE

JAN BUČEK
EUROPEAN SALES MANAGER

PRAGOLAB DISCOVERY DAYS23

ION SOURCE TECHNOLOGY

Sicrit technology



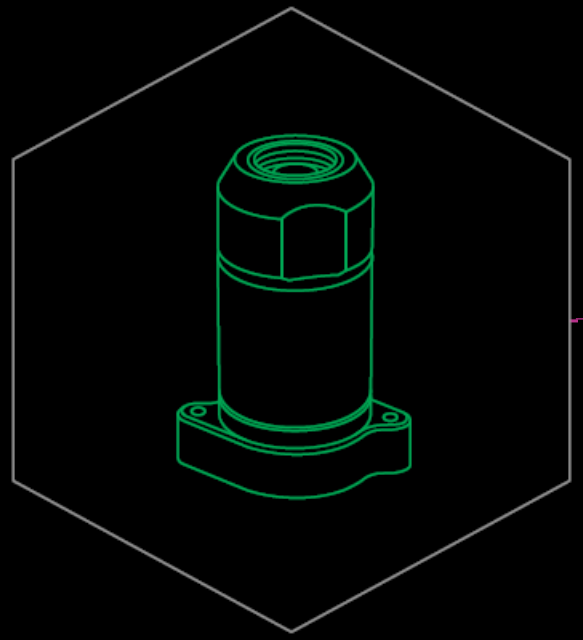
SICRIT – SOFT IONIZATION BY CHEMICAL REACTION IN TRANSFER

ION SOURCE TECHNOLOGY

Sicrit technology

SUCCESS STORY

Sicrit technology



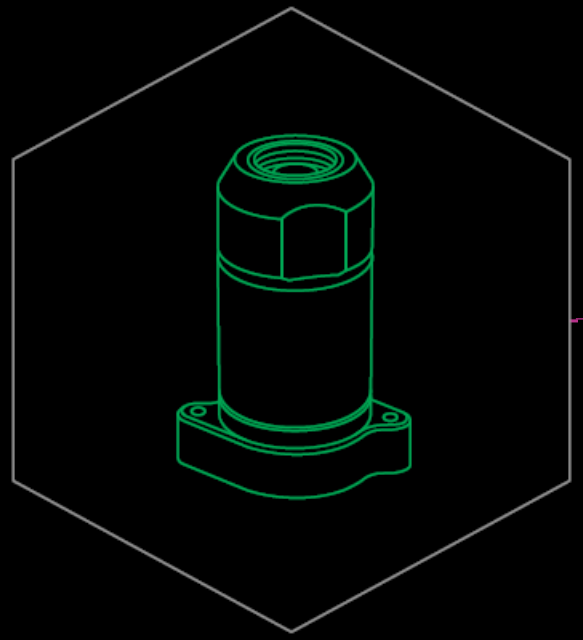
2018 | 2019 - 2020 | 2021 | 2022 | 2023

GO-TO-MARKET

In 2018 it finally happened and Plasmion is entering the market backed by VCs and business angels with sector experiences.

SUCCESS STORY

Sicrit technology



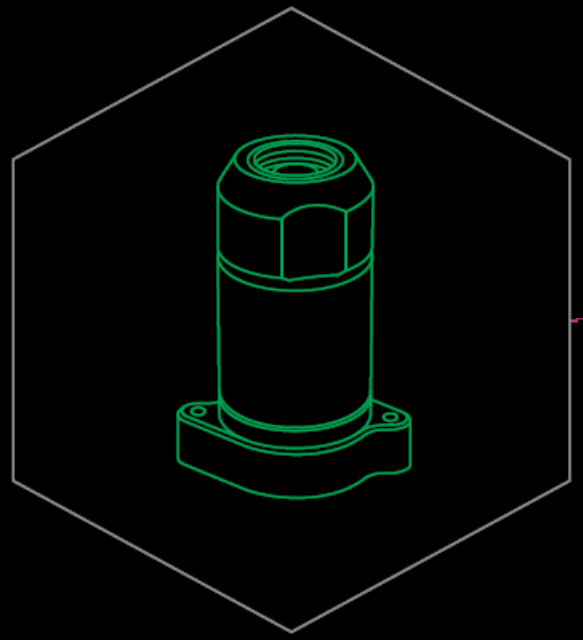
2018 **2019 - 2020** 2021 2022 2023

LEARN TO FLY

These years were crucial for building a strong distribution network and establishing partnerships that would support global sales and service operations.

SUCCESS STORY

Sicrit technology



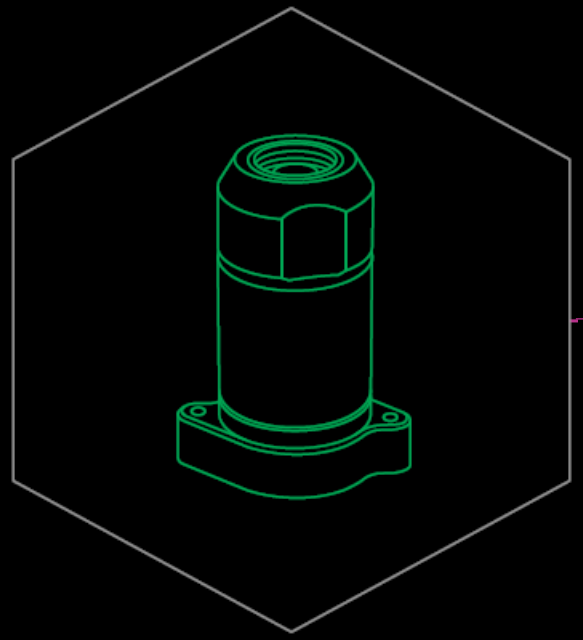
2018 2019 - 2020 **2021** 2022 2023

USA, BABY!

After being able to establish and successfully grow with the business in Europe and Asia, Plasmion finally hit the United States of America.

SUCCESS STORY

Sicrit technology



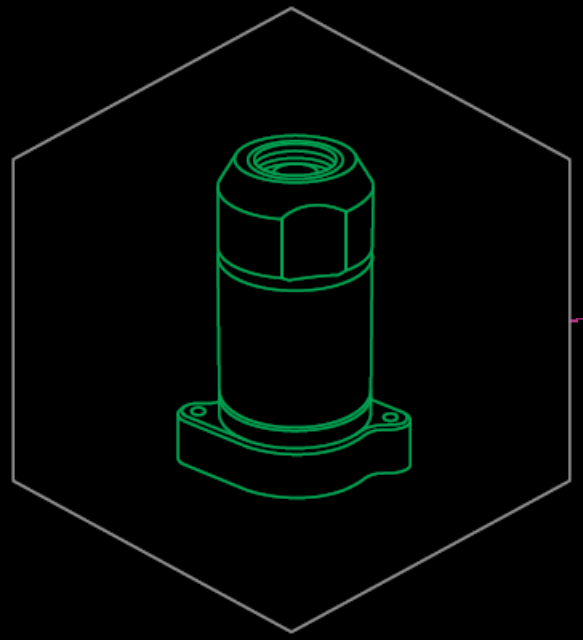
2018 | 2019 - 2020 | 2021 | **2022** | 2023

YEAR OF THE HAVOC

Plasmion came up with its HaVoc product line, a sensory system based on mass spectrometry for industrial real-time VOCs monitoring.

SUCCESS STORY

Sicrit technology



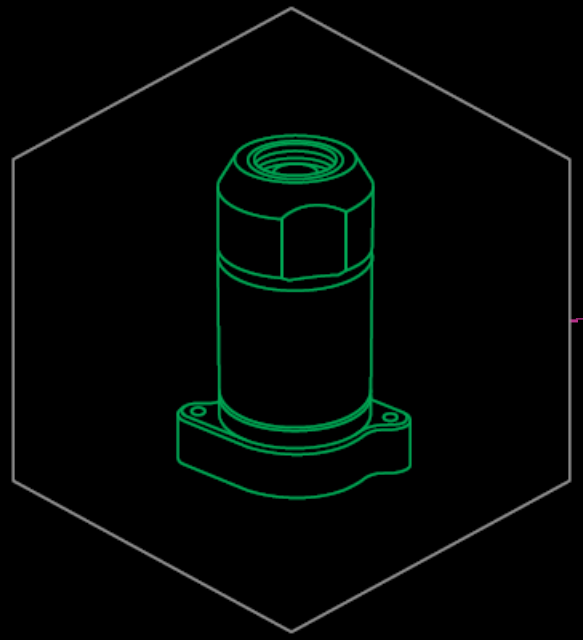
2018 — 2019 - 2020 — 2021 — 2022 — **2023**

LC-MODULE, FINALLY

Plasmion complemented its product portfolio with long-awaited LC-module, which enables the coupling of liquid chromatography with SICRIT®.

OVERVIEW

Sicrit technology



CHROMATOGRAPHY

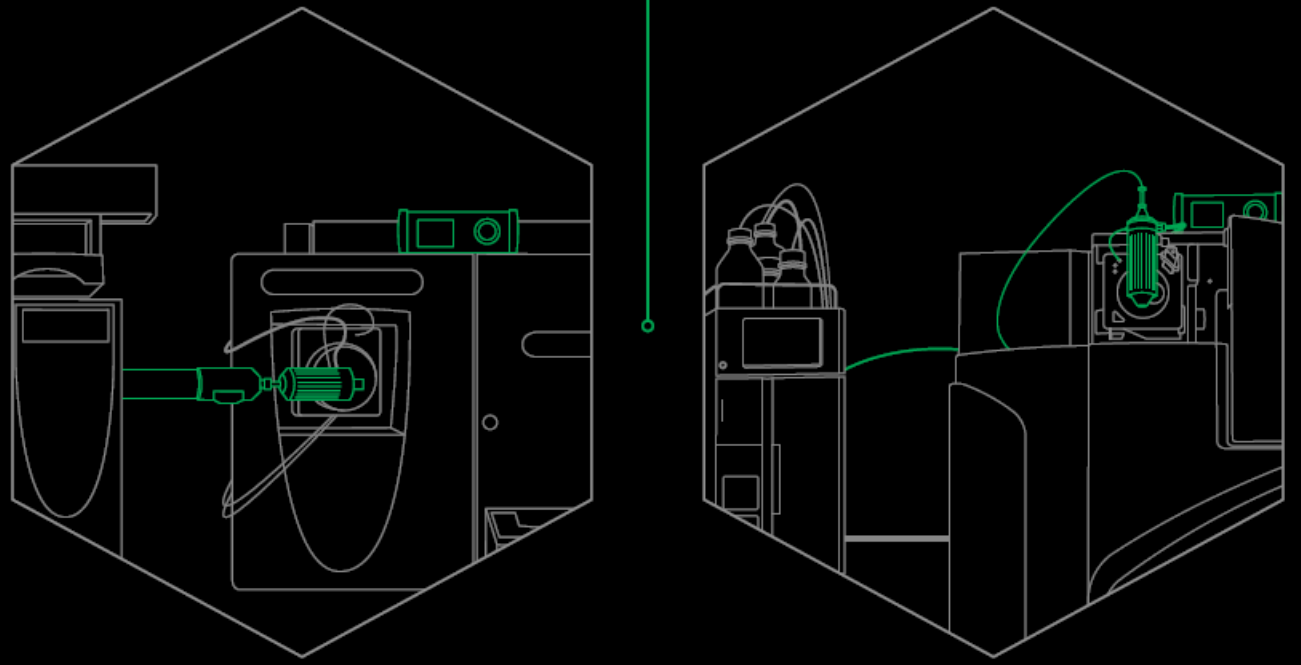
DIRECT

MS IMAGING

CHROMATOGRAPHY

Sicrit technology

GC-APMS



LC-APMS

CHROMATOGRAPHY

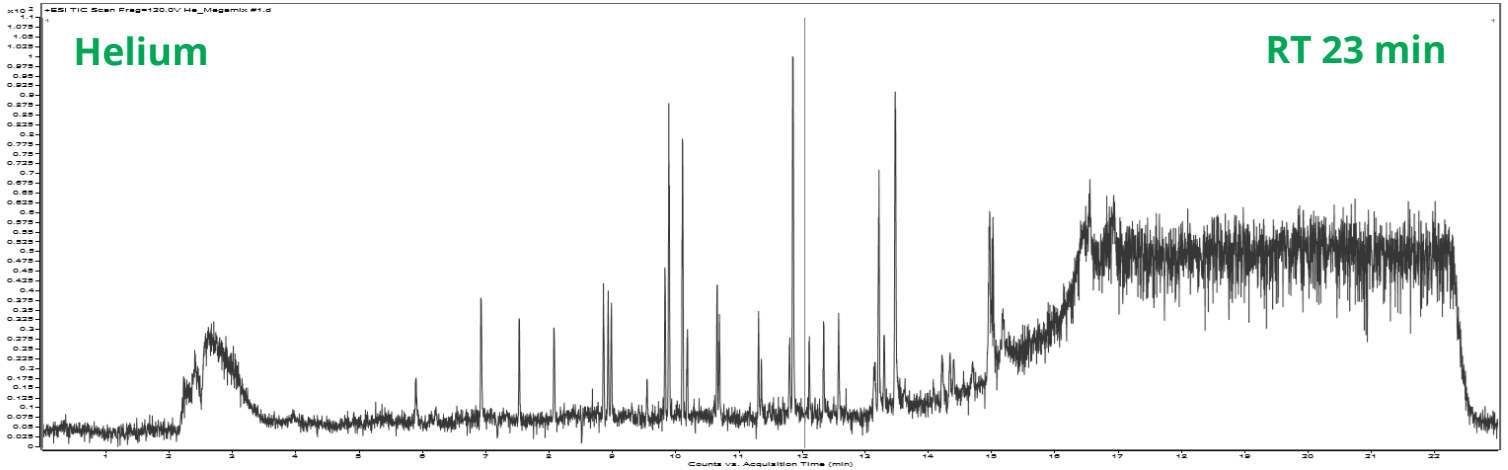
Sicrit technology

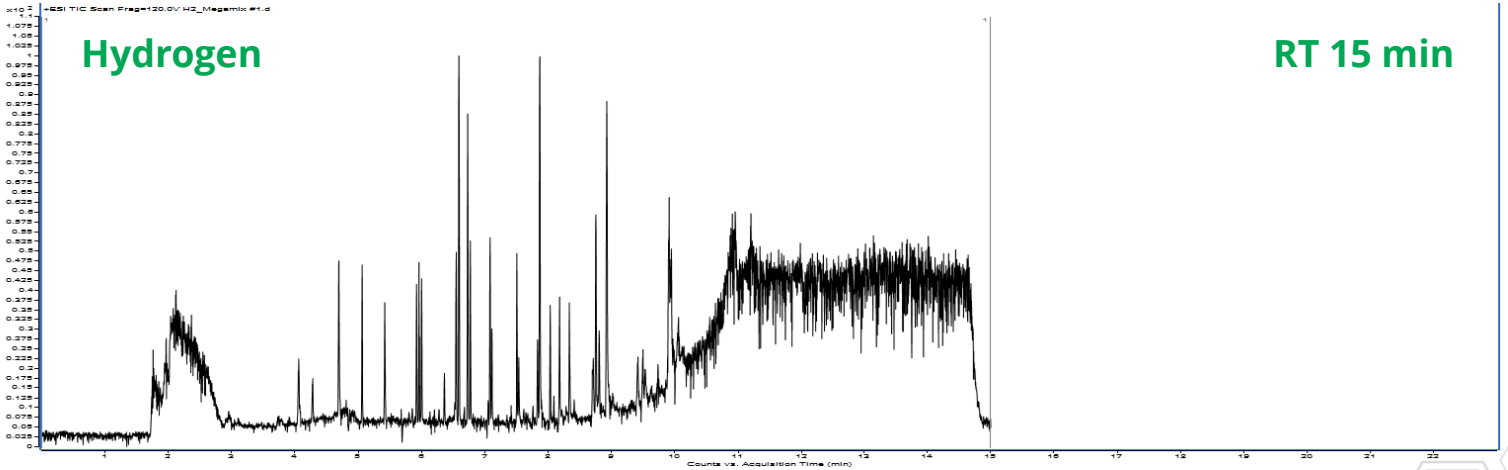
LC-APMS

GC-APMS

CHROMATOGRAPHY

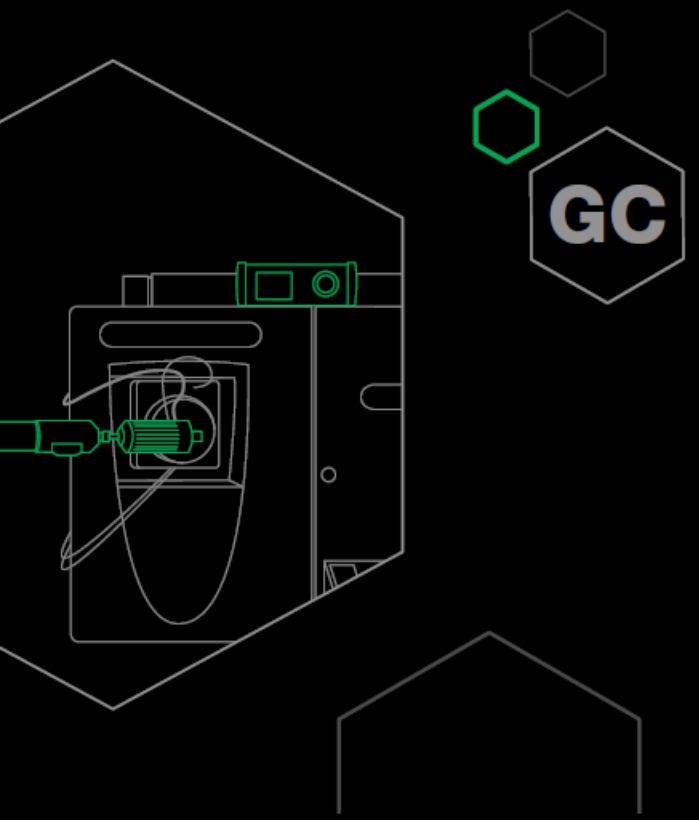
SICRIT® allows the switch from He to H_2 in the GC-Coupling with gaining speed and sensitivity

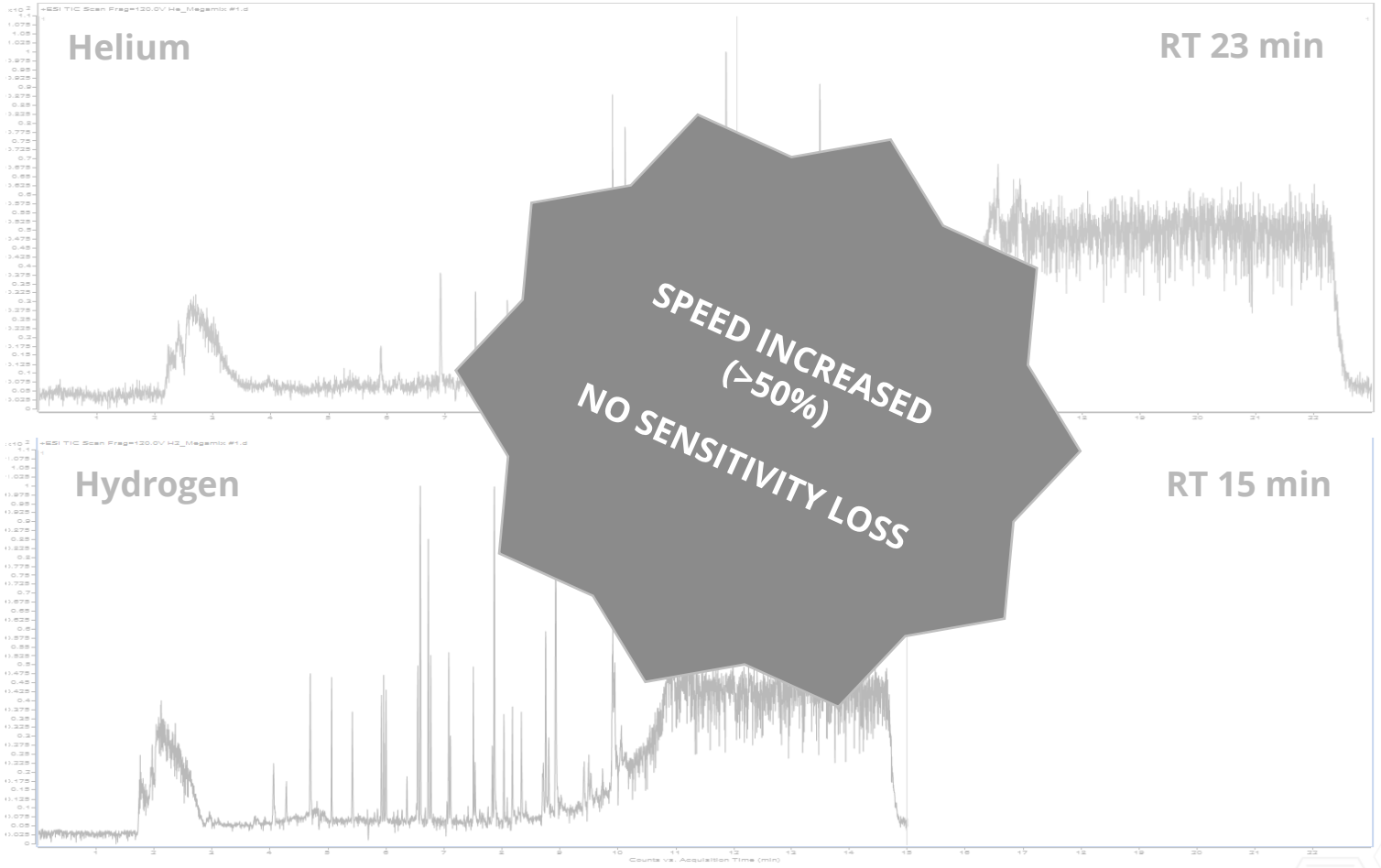




CHROMATOGRAPHY

SICRIT® allows the switch from He to H_2 in the GC-Coupling with gaining speed and sensitivity

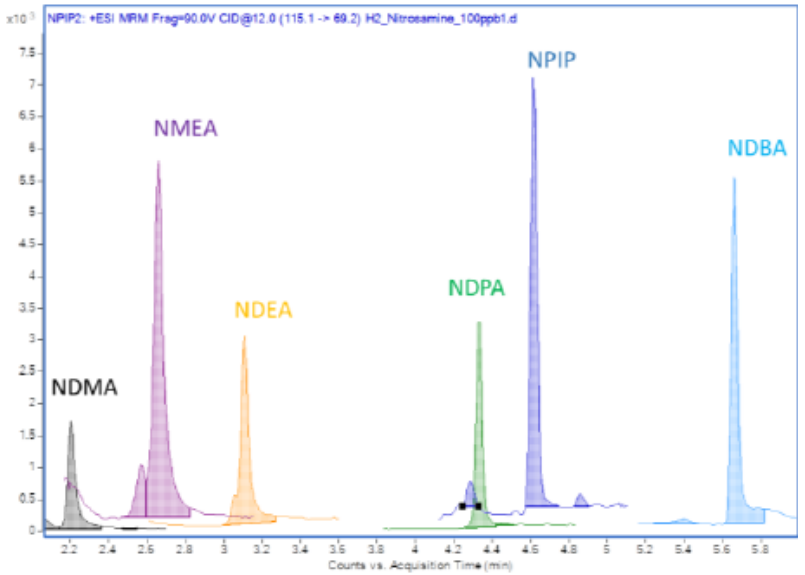




CHROMATOGRAPHY

Fast and sensitive analysis of 6 nitrosamines by replacing helium with hydrogen as carrier gas

Chromatographic separation (100 ppb)



Figures of merit

Carrier Gas	He			H_2		
	RT (min)	LOD (ppb)	RSD (n=5) (%)	RT (min)	LOD (ppb)	RSD (n=5) (%)
NDMA	3.4	10	15.8	2.2	3	7.9
NDEA	5.9	3	6.5	3.1	3	3.5
NDBA	10.9	3	1.9	5.7	3	5.5
NDPA	8.3	3	5.6	4.3	3	8
NMEA	4.0	30	13	2.7	3	12.8
NPIP	8.8	3	3.3	4.6	3	7.2

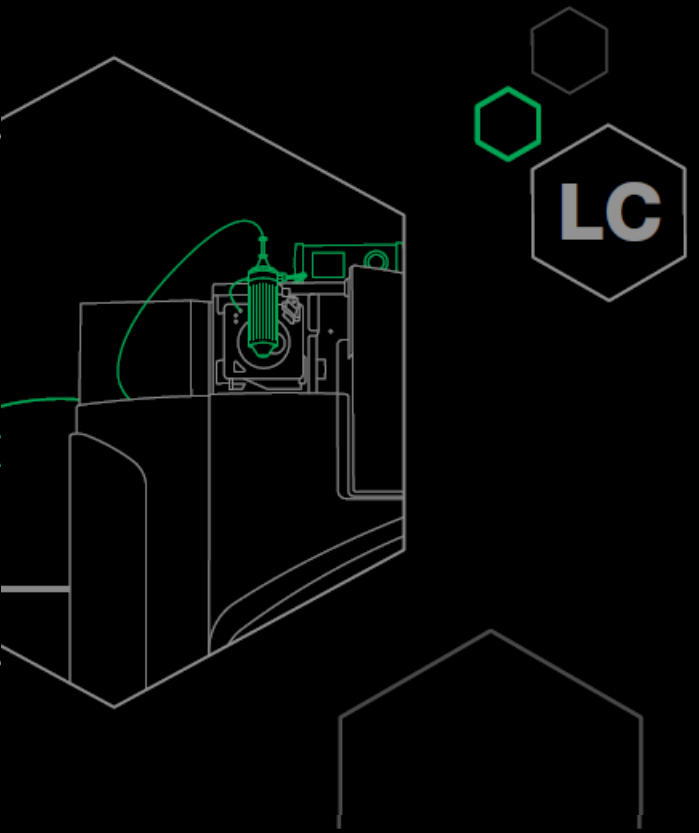
AppNote available

Sicrit technology

Application Note

GC-SICRIT®-MS: Fast and sensitive analysis of 6 nitrosamines by replacing helium with hydrogen as carrier gas

CHROMATO GRAPHY



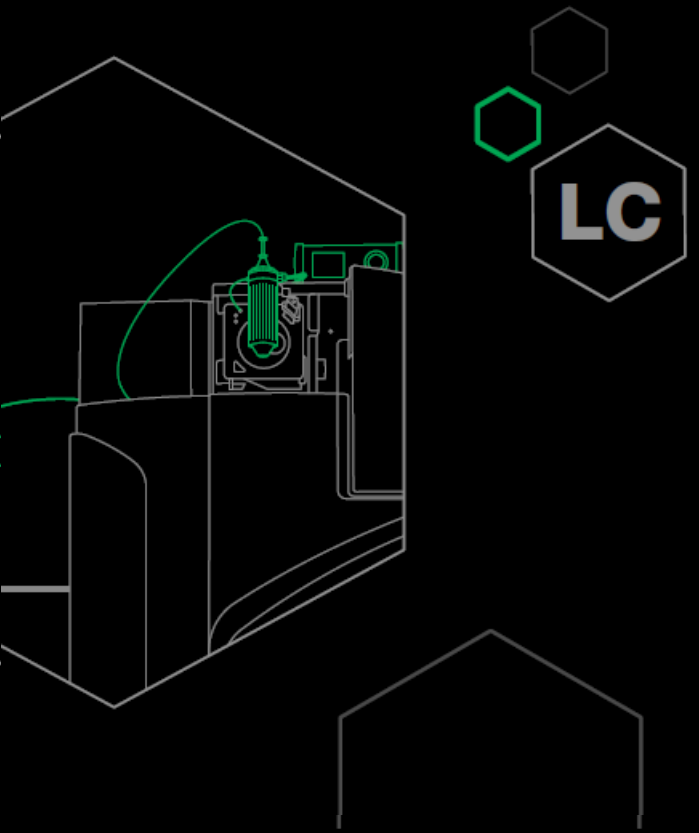
LC-MODULE

NEW

LC/SFC Module – Advantages

- **High salt tolerance**
- Broad ionization coverage from polar to non-polar
- Ideal for **reversed and normal Phase**
- Suitable for **normal, micro and nano flow rates**

CHROMATOGRAPHY

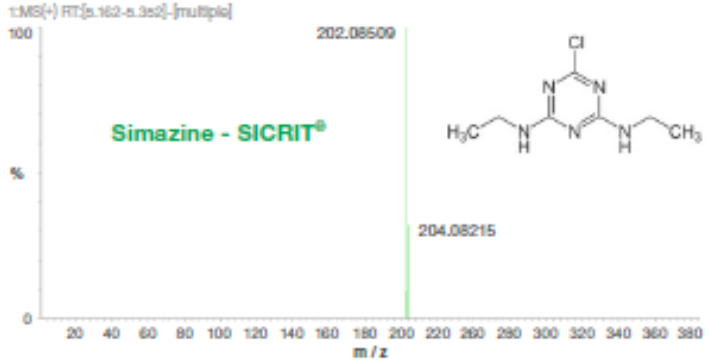


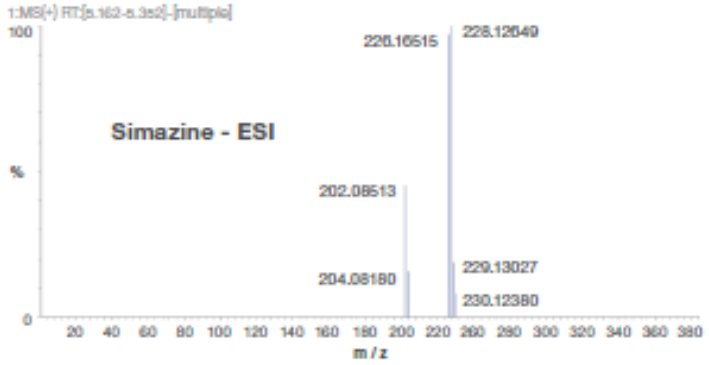
LC-MODULE

NEW

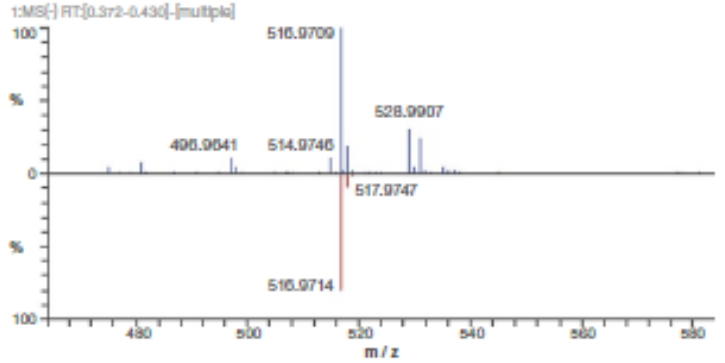
Providing cleaner spectra and unique analysis capabilities

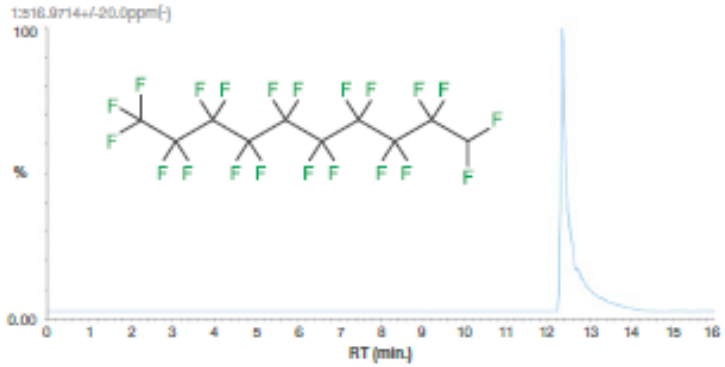
Soft Ionization, no fragments





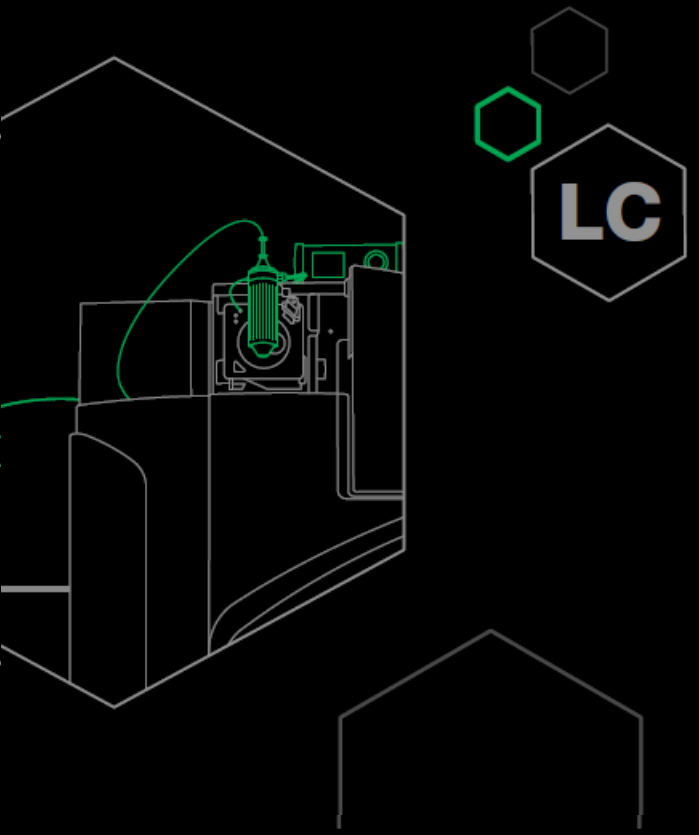
Detection of perfluorinated alkanes *



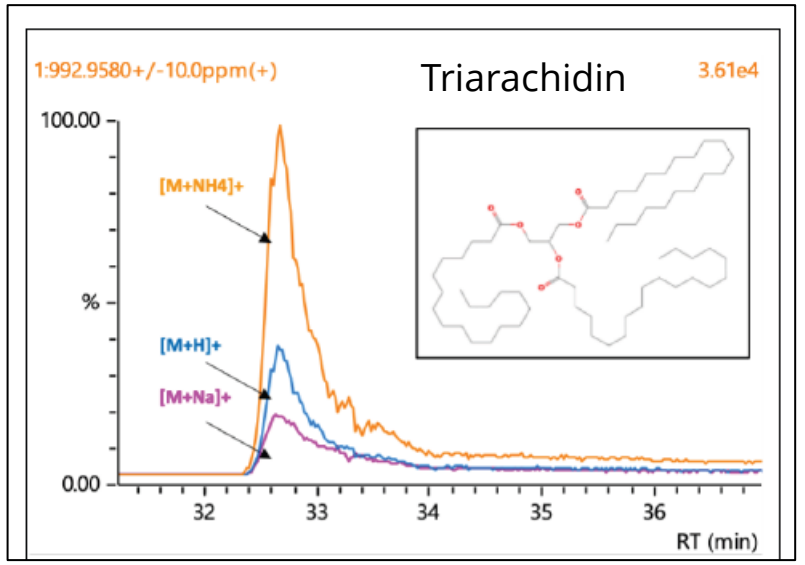


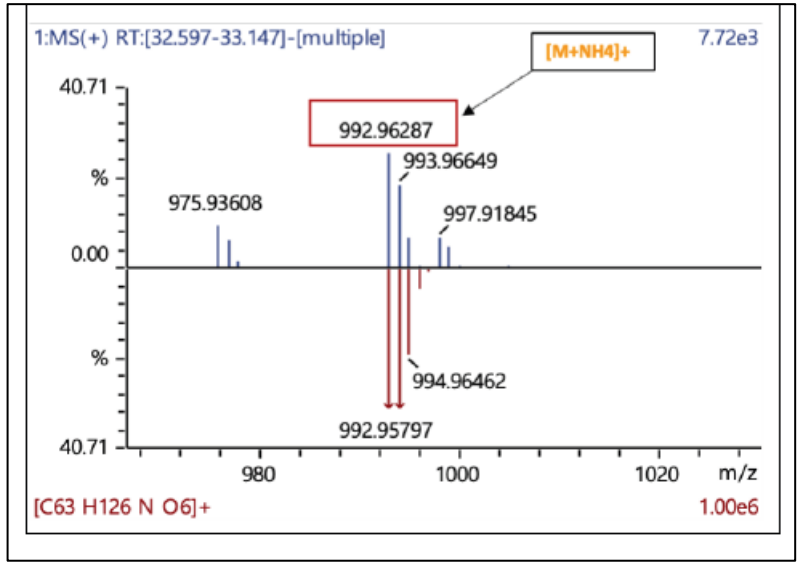
* Non ionizable by ESI / APCI

CHROMATO GRAPHY



LC-SICRIT®-HRMS Analysis of Non-Polar Lipids featuring structure-ionization relationship



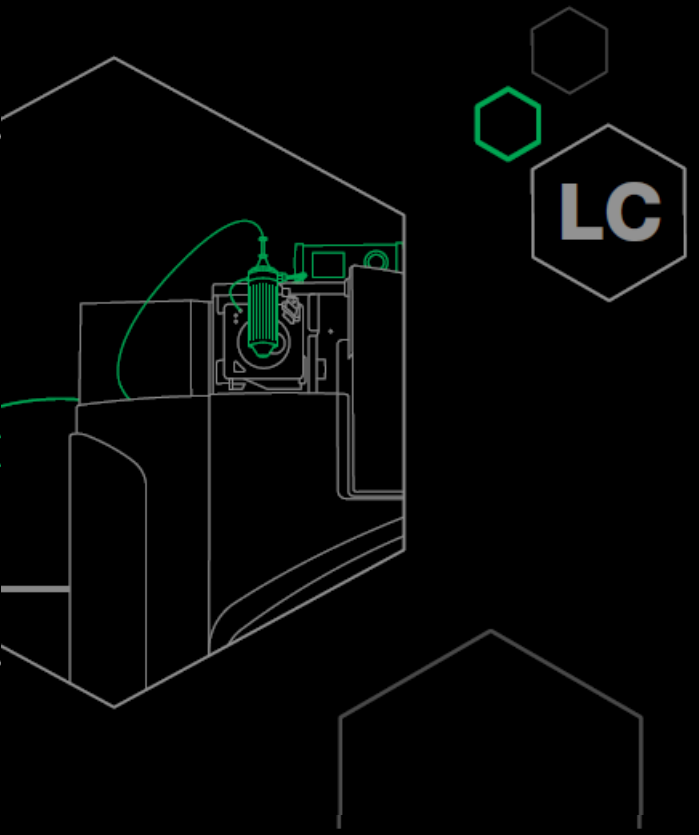


Soft ionization of Triglycerides

Ratio of ion species corresponds to the level of molecule's saturation

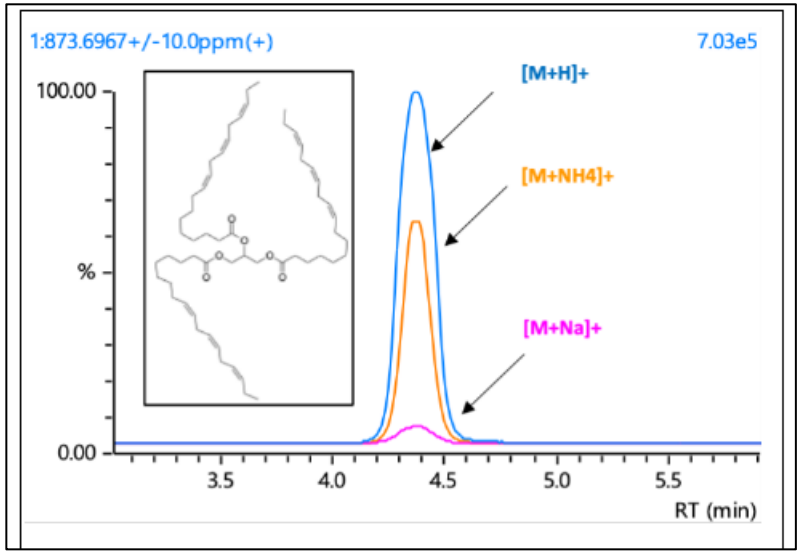
Above leads to unprecedent identification in MS1 scan

CHROMATO GRAPHY

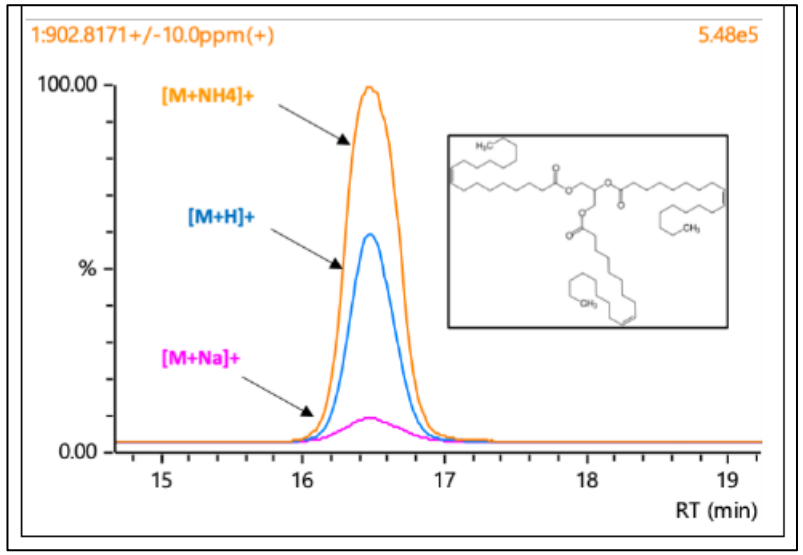


LC-SICRIT®-HRMS Analysis of Non-Polar Lipids featuring structure-Ionization relationship

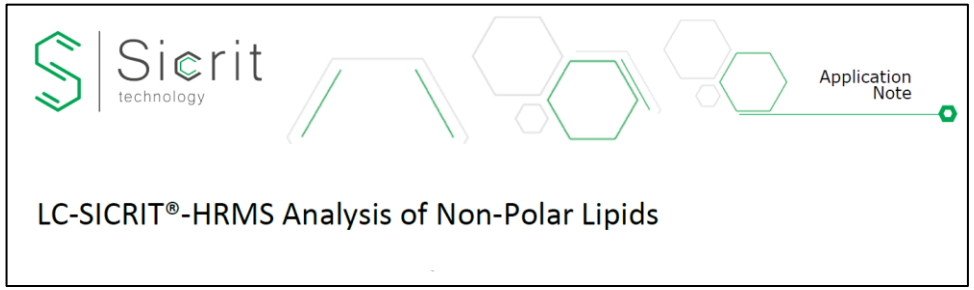
Tri-alpha-linolenin



Triolein

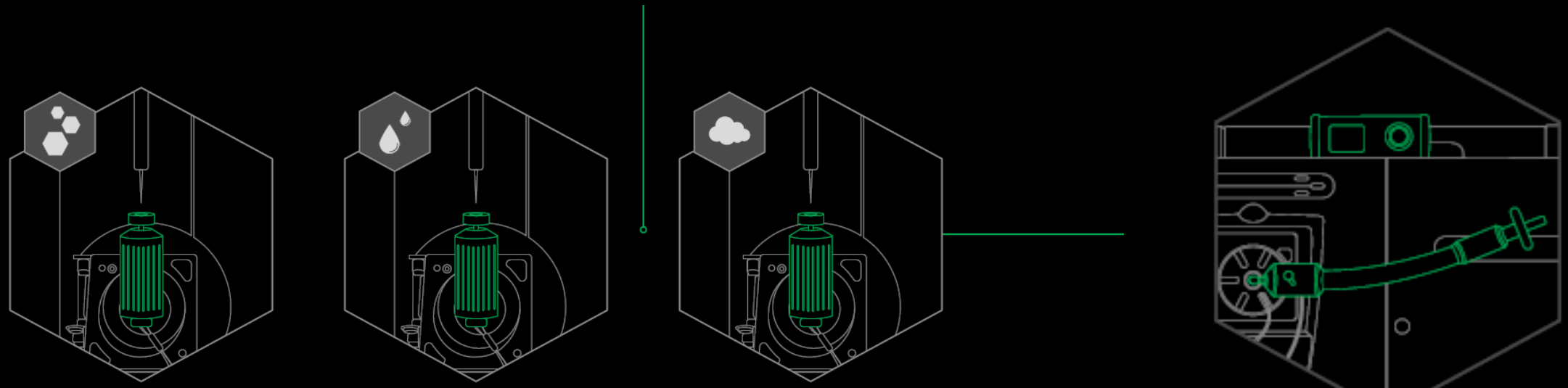


AppNote available



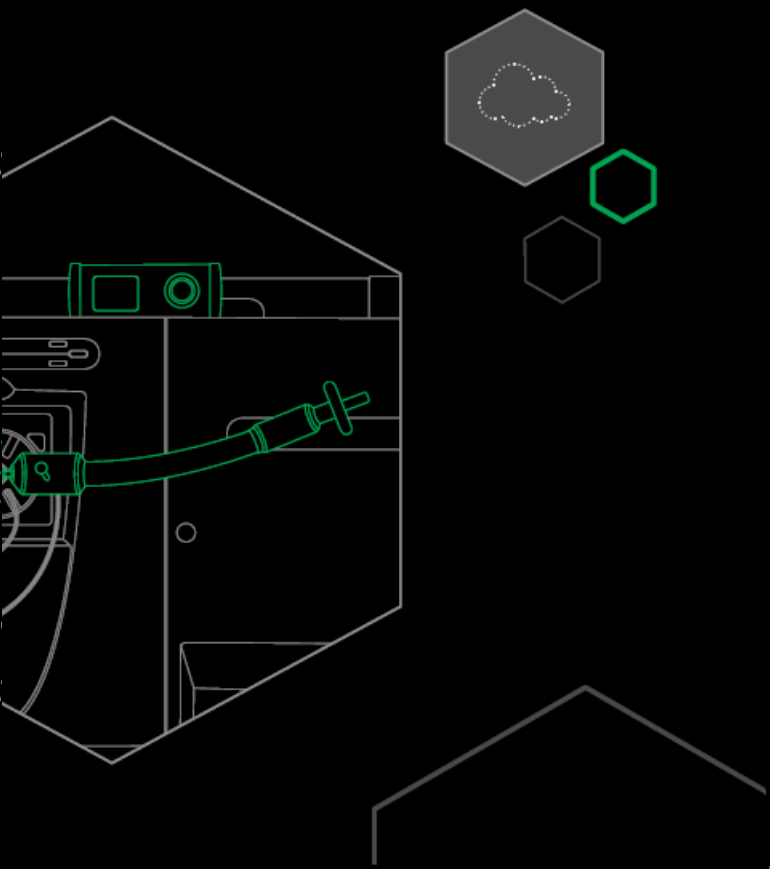
DIRECTMS

Sicrit technology



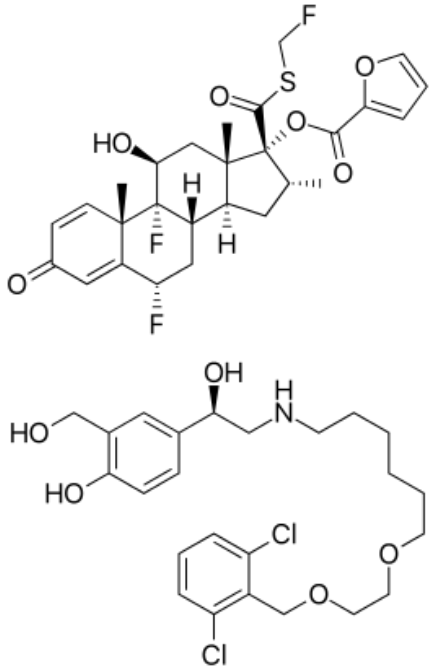
SOLID LIQUID GAS **BREATH ANALYSIS**

DIRECT MS



SICRIT® enables real-time monitoring of metabolic changes of xenobiotics in lungs

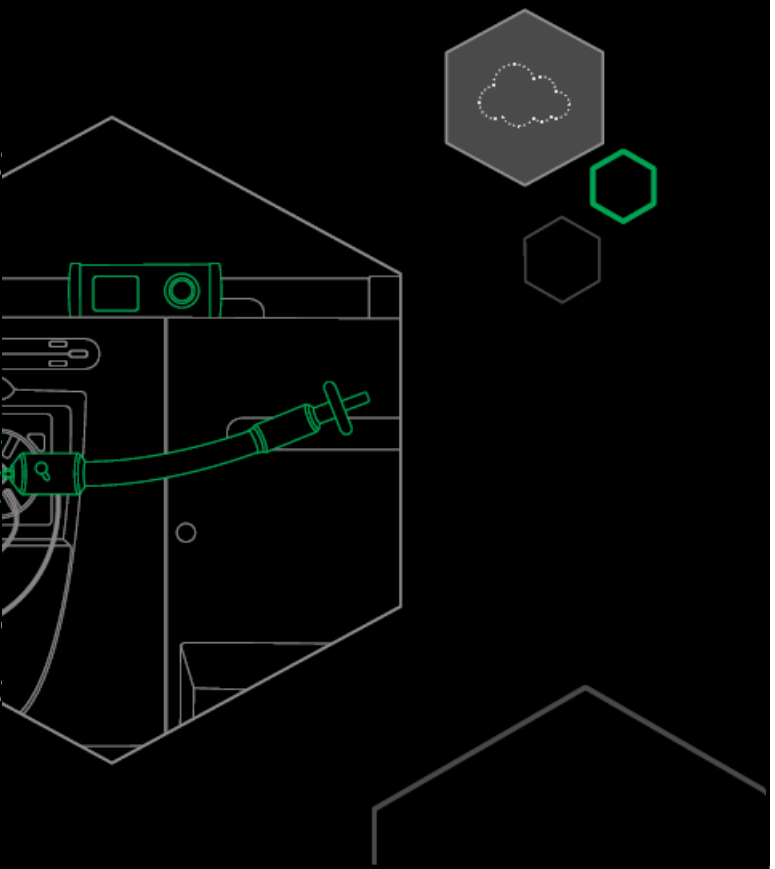
RELVAR (fluticasone furoate / vilanterol)



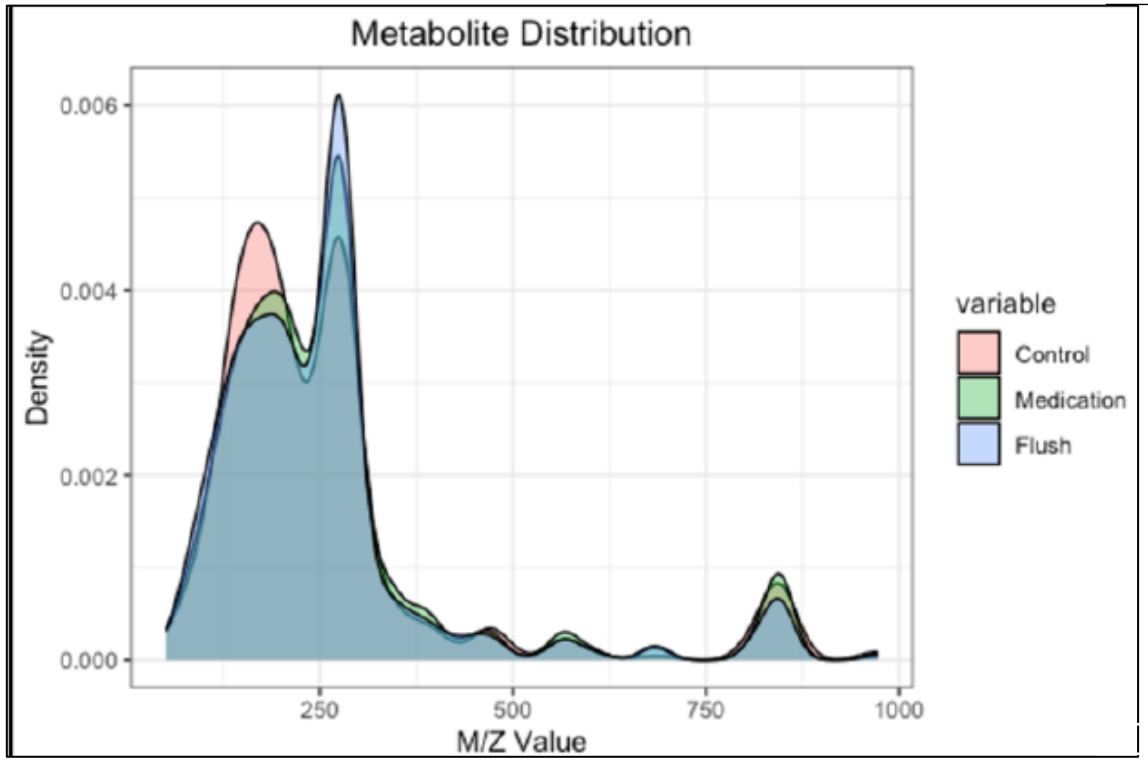
ASTHMA, COPD

Metabolism not fully understood

DIRECT MS



SICRIT® enables real-time monitoring of metabolic changes of xenobiotics in lungs



After intake shift

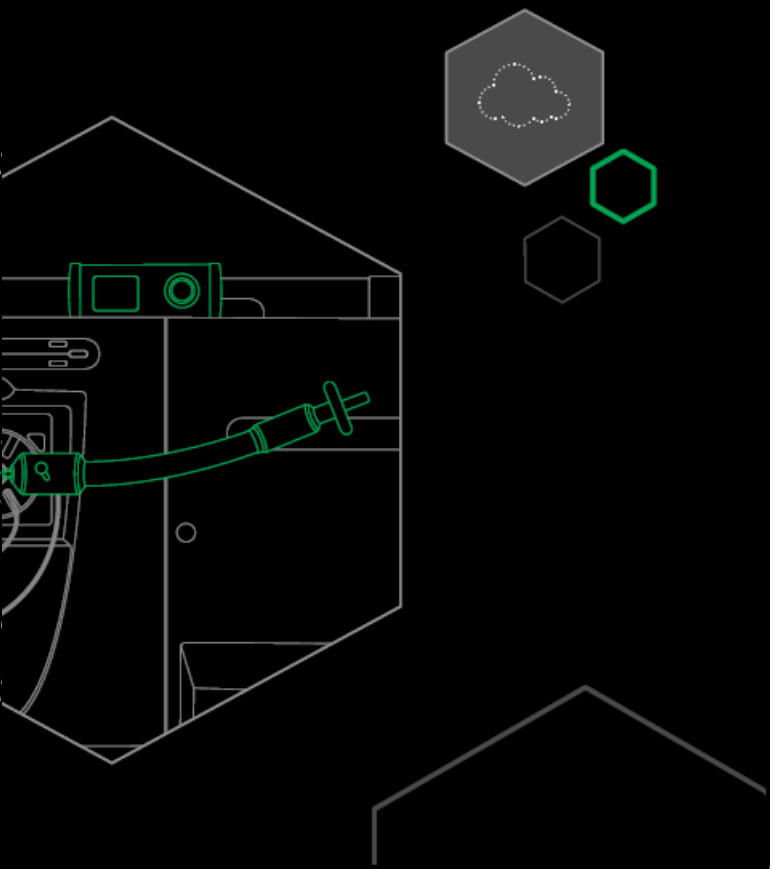
AppNote available

Sicrit technology

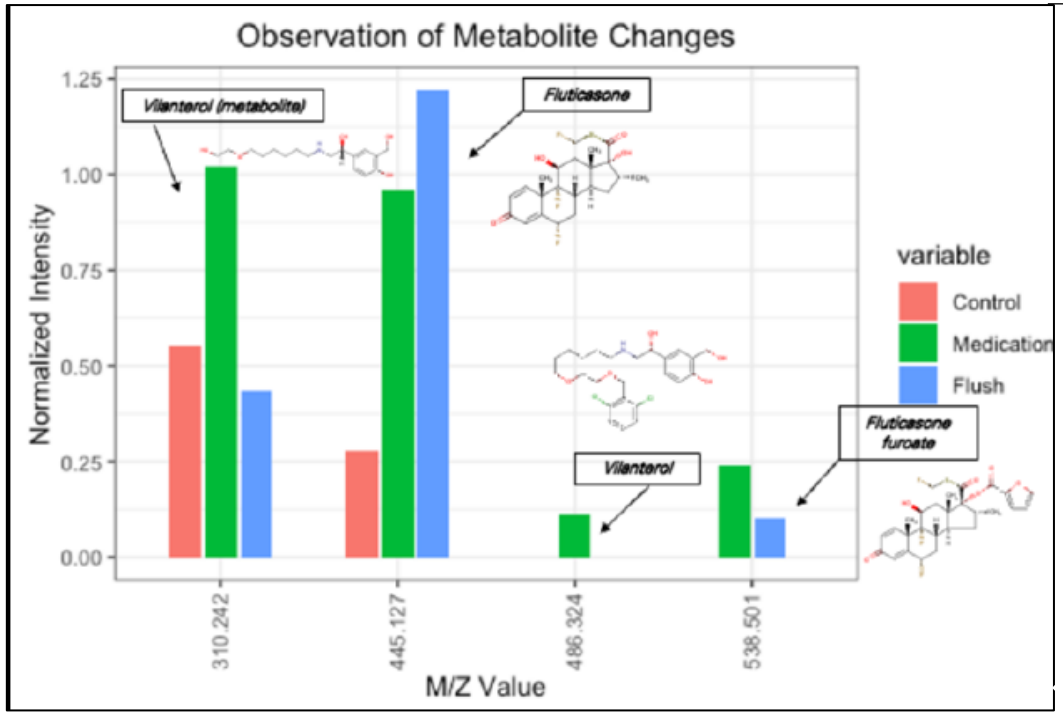
Application Note

SICRIT®-HRMS for Targeted Exposomic-Metabolomic Research through Direct Respiratory Analysis

DIRECT MS



SICRIT® enables real-time monitoring of metabolic changes of xenobiotics in lungs



API and its metabolites distribution

AppNote available

Sicrit technology

Application Note

SICRIT®-HRMS for Targeted Exposomic-Metabolomic Research through Direct Respiratory Analysis

THANK YOU!

CONTACT