



Chromatography & Mass Spectrometer (2026)

GC-Isotope Ratio Mass Spectrometer

Compact Science Systems - GC-IRMS - UK

IsoLab IRMS

Compact, highly sensitive, small-radius gas chromatograph IRMS

The IsoLab delivers powerful analytical performance with flexibility and ease of use, making it ideal for a range of scientific applications. This compact and highly sensitive small foot print Gas Chromatography-IRMS provides fast and accurate results, ensuring precise and reliable analysis every time.

Powerful Analytical Performance with our Gas Chromatography-IRMS

The powerful combination of the IDMicro, combustion interface, and gas chromatograph IRMS allows you to confidently analyze a wide range of sample types. We work closely with you to configure and optimize your system to meet your scientific goals, ensuring minimal method development is required after installation.

Features

- Designed for hassle-free compound-specific isotopic analysis of a wide range of sample types
- Compatible with IsoTubes and/or sample cylinders if required
- Wide range of possible analytical set-ups, including the full gamut of inlets, valves, sample loops, autosamplers, and detectors
- Incredible sensitivity
- The smallest commercial bench-top stable isotope ratio mass spectrometers available

Applications

- Environmental studies
- Natural gas exploration and analysis
- Geochemical sciences
- Forensics
- Biological studies
- Food authentication

Software

- Complete control of your IsoLab and data processing with our intuitive software suite, IsoDelta
- Functions as an automated control system for non-isotope specialists
- Advanced functionality allows the expert user to create custom methods and corrections
- Allows the advanced user to load tune files, control custom peripherals, acquire and manipulate data from multiple channels, and much more
- Further customization can be achieved through IsoDelta's VB.Net scripting
- Analytical results can be printed or exported to Microsoft Excel or a compatible LIMS system
- Reprocessor for data manipulation



Triple Quad LC-MS

GAMSTEK - LC-MS/MS/MS - China

Ion Source

- Brand new appearance, exclusive design
- Dual ceramic heating rod design provides higher ionization efficiency
- Higher ion response, lower detection limit
- Flexible switching between ESI/APCI, easy operation



Ion source



Quadrupole

Quadrupole

- Precision assembly, with comprehensive error better than 2 μm
- Ceramic gold-plated surface, anti-pollution and anti-oxidation
- Ceramic base, insulation, anti-interference
- Tooling accuracy better than 1 μm

Detection limit and linear range

Inject reserpine of different concentrations, and calculate the linear correlation coefficient R between the response area and the concentration. Our instrument meets a 10-fold signal-to-noise ratio:

- Minimum detection limit: < 1.4 fg
- Detection linearity better than 0.999
- Linear range better than 6 orders of magnitude

MassNova Software

- Supports high/low molecular weight configuration
- Supports device network IP address
- Supports all system configuration
- Supports log/Account management and other functions
- Spectrum results can be quantitatively analyzed in real time



MS 8100

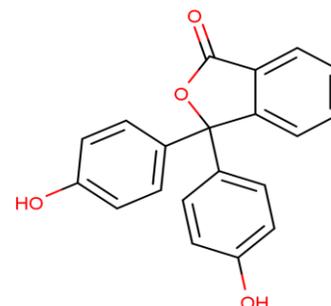
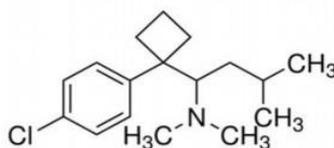
Noise and sensitivity/accuracy and stability:

Inject reserpine solution of appropriate concentration, use MRM acquisition mode, collect ions 609 >195, obtain mass chromatogram, calculate $S/N = H_{m/z} \div H_{\text{Noise}}$:

- Signal-to-noise ratio >1,000,000 : 1
- Mass accuracy: < 0.01% amu
- Mass stability: ± 0.1 amu/24h

Analytical Applications:

- Environmental
- Food Safety
- Pharmaceutical
- Preservatives in skin care products
- Life Science
- Forensic Science

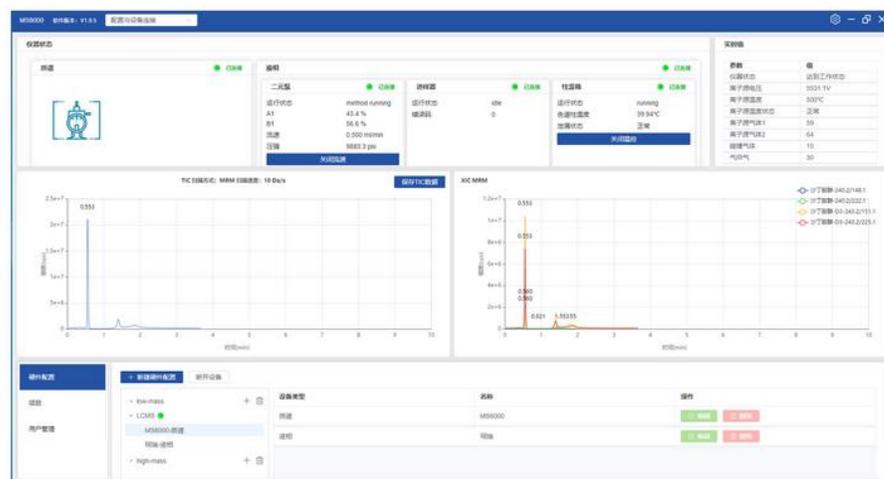


Triple Quad LC-MS

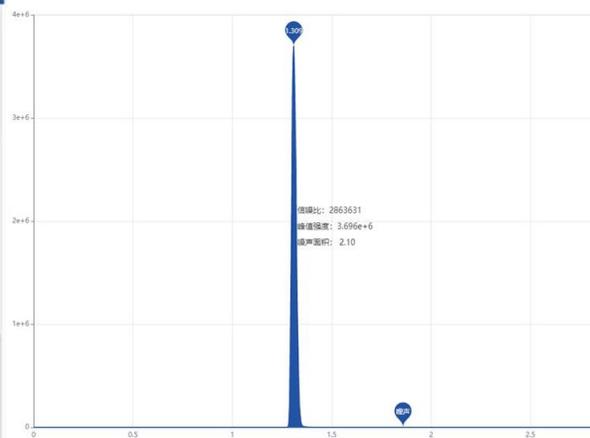
GAMSTEK - LC-MS/MS/MS - China

Unbelievably Results, Remarkably Powerful

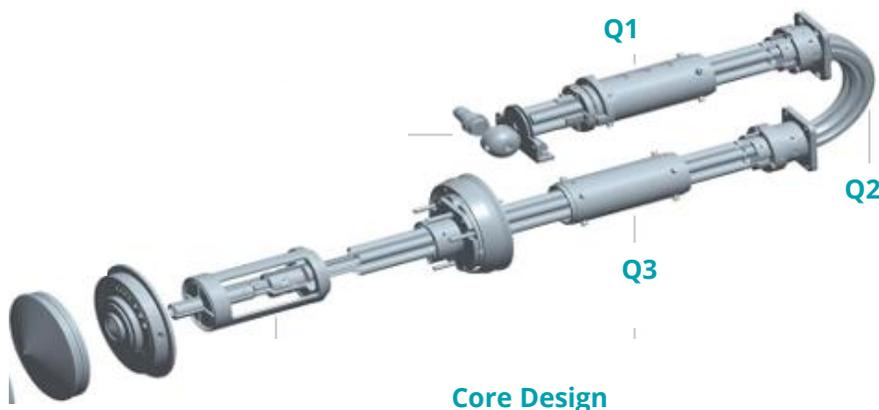
- **Exceed productivity goals:** High Sensitivity and Selectivity in analysing target compounds quantitatively in confidence. Results achieved are not at the expense of linear dynamic range.
- **Excellent performance:** Increased ion sampling efficiency and ruggedness with our special design of ion guide. Results are obtained without any second guess.
- **Minimize downtime to increase throughput:** Detect system status in real time to reduce maintenance job.
- **Robust and versatile:** It analyses a wide range of analytes and ions with minimum carryovers.
- **Improve signal to noise ratio:** Excellent S/N ratios are obtained with exceptional linear range and sensitivity even in complex sample matrices.
- **Excellent ionization efficiency and heat transfer:** Offered by our optimized designs.
- **Switchable Mass range:** Choose between m/z 5-1250 or 5-2,000 provides versatility for quantitation of small and large molecules.



MassNova Operating System



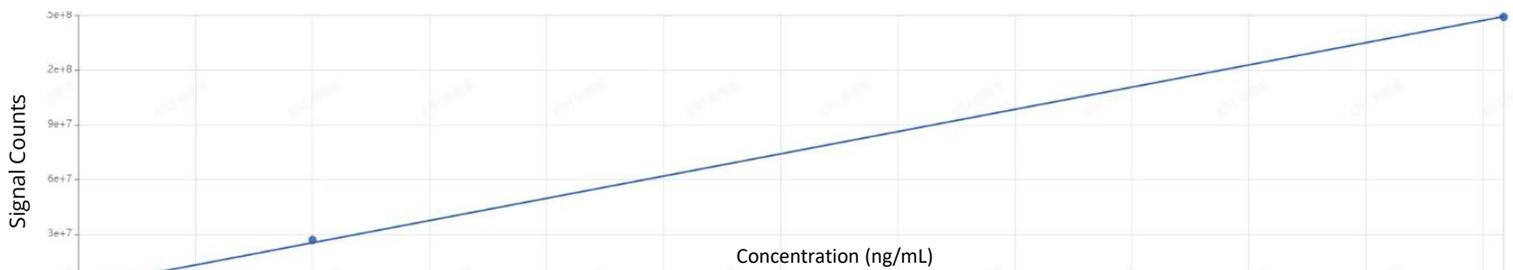
Calculated S/N ratio: >2,750,000



Core Design

Special Features:

- Ionization: ESI and APCI
- Mass Range: m/z 5-1250/2000 (switchable)
- Scan Speed: >12,000 Da/sec
- Scans Mode: Q1, Q3, MRM, Q1 multi-ions, neutral discard, parent ion, daughter ions
- Mass Accuracy: <0.01% @whole range of mass



Detection Limit and Linearity

LC – Analytical / Semi-Prep / Prep Systems

ECOM - LC (Preparative, Semi-prep, Analytical, and Flash) Systems - Czech

HPLC is a very mature technology. That is to say, the difference among every manufacturers is unnoticeable. All the components shown below is about 33% of our product line.

By telling us the sample size you want to separate/purify per injection or per day, we could configure the perfect system for you. Free of charge.

- **Configurations:** Analytical, Semi-prep, Prep, and flash LC systems with isocratic to quaternary gradient capability are available
- **Solvent delivery:** Flow rates of 10, 50, 100, 250, 300, 1000 and 3000 ml/min with Pressure of 15, 30, 40, 60 MPa are available.
- **Sample injection:** Manual or automatic, with sample loops from 1 – 50 mL
- **Detection:** UV and UV-Vis PDA (190/200nm up to 400, 600 and 800 nm); RI, Fluorescence, ELSD, Conductivity/pH, and others are available
- **System Operating Software:** ECOMAC for Prep LC, and Clarity with 21 CFR Part 11 compliance.
- **Optional accessories:** Eluent degasser, gradient mixer, column oven, fraction collectors (3 models), pump head thermostat (ambient to 110°C), ATEX rating pump, pulse-less pump.

GRADIENT BOX

- With a gradient valve
- Optionally with a built-in PC

PREPARATIVE PUMP

You can choose a preparative pump with the following flow rates: 50, 100, 250, 300, 1000 or 3000 ml/min

DETECTOR TOY20DAD H

Available wavelength range versions: Up to 400, 600, and 800 nm



FRACTION COLLECTOR

Wide assortment of different sizes of tubes, vials, and funnels



FRACTION COLLECTOR

- Features a 10-position valve
- Large volume fraction collection

BOTTLE RESERVOIR

PC DISPLAY

EMBEDDED PC

FRACTION COLLECTOR

VARIOUS RACKS

- For tubes-of 8 ml, 21 ml, 40 ml, or vials of 60 ml, or funnels of 30 mm

GRADIENT VALVE

- 6 solvent inlets



DETECTOR UV-VIS DAD

- 200–800 nm
- Scanning
- 4 channels

CHROMATOGRAPHY SOFTWARE

AUTOMATIC INJECTION VALVE

PREPARATIVE PUMPS

- 10, 50, or 250 ml/min

Compact Prep System (10, 50, or 250 mL/min)

...choose your ideal system components...

GRADIENT BOX

- With a degasser and a gradient valve
- Optionally with a built-in PC

SAMPLE INJECTION VALVE

- Stainless-steel sample loop



Amino Acid Analyzer

Column Washing System

HPLC PUMP

- With maximum flow rate of 10 ml/min
- Max. back pressure rating up to 60 MPa (8703 psi)

COLUMN OVEN

- Features heating and cooling 0–80 °C
- Or with heating only, up to 99 °C

PDA/UV-VIS DETECTOR

- A multichannel PDA or a variable UV-VIS detector with ranges from 200 nm up to 800 nm



AUTOSAMPLER AS96

- Features excellent accuracy and linearity.

Versions:

- With/without sample heating and cooling module
- Maximum backpressure: 60 or 40 MPa



Build your dream system with our components

Gradient Analytical System

LC – Analytical / Semi-Prep / Prep Systems

Pre-configured LC Systems & Components



PrepTower (300, 900 or 2,000 mL/min)



Isocratic Prep System



Quaternary Gradient Prep System w/ UV-Vis PDA detector



PrepBox (300 or 1,000 mL/min)



Pumps (10, 50, 100, 250, 300, 1000, 3000 mL/min)



UV LED Detector (255 & 280 nm)



Gradient Mixer & Degasser



Industrial Scale columns - construct w/ SS316 & UHMWPE



Thermostat Pump Head (50-300 mL/min)



UV-Vis (190 - 600/800 nm)



Column Oven (0-80°C)



Column: 3, 5, 10 μm of various dimensions and chemistry



Thermostat Unit for 1L/min Pump



PDA (190/200-800nm)



ECD (L) and pH Flow Cell (R)



Fluorescence Detector



RI Detector



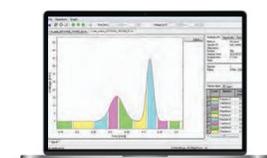
Fraction Collectors



Autosampler (96 Position)



Fluorescence Detector



Operating System

LC – Semi-Prep / Prep & SMBC Systems

Agile Bio - Medium- & High-Pressure Prep LC System - China

Best choice to replace the traditional column chromatography with High efficiency, large sample loading .

SmartPurifier Systems

- Flexible and convenient
- Safe and fast, Intelligent and efficient

Dedicated to providing total solutions for customers in:

- Food & Pharmaceutical Industry, Life & Health Science
- Petrochemical Industry, Academics / Research & Development

Flexible and Convenient

- Offers Binary & Quaternary solvent systems
- Supports columns in series connection for liquid injection & solid loading
- Supports multiple tube racks and customized collection tubes

Safe and Fast

- Permissions management
- Online solvent alarm and Online pressure protection

Intelligent and Efficient

- Real time modification of analyzing parameters
- One step re-use previous method
- Multi-wavelength detection

Instrument Parameters: Normal and reverse phase both available

- Adopts high-precision metering pump, resistant to solvent corrosive, and supports binary & quaternary solvent gradient
- Compatible with 4g-800g normal and reverse phase chromatography columns, the maximum sample loading volume can up to 80g;

Fitted Flash Columns: 4g, 12g, 20g, 40g, 120g, 220g, 330g, 800g

Online parameter modification

- Online gradient adding and modification gradient curves can be run by manual dragging;
- Online modification of flow rate

Multiple collection modes

- Full collection, peak collection, time collection and other modes, and online peak-tube correspondence.

Software

- User-friendly Operation Interface
- Fast and Convenient Data Management
- Safe & Efficient Sensors

Simulated Moving Bed Chromatography (SMBC) for separation/purification of liquid sample

SMBC has been around for decades mainly for separation/purification of petrochemicals. It is now used more in pharmaceutical and other industries.

Advantages: The major advantages are its quick separation/purification of liquid samples in large quantity (**10g, 100g, 1000g and MORE**) in a much shorter time (**FAST**) and use less consumables (**ECONOMICAL**) than traditional LC.



Medium Pressure Prep (Flash) System

- Flow rate: 100 or 200 mL/min (Max.)
- Pressure: 200 psi (Max.)
- Detection: 200-400 nm or 200-800 nm



High Pressure Prep System

- Flow rate: 100 or 200 mL/min (Max.)
- Pressure: 200 psi (Max.)
- Detection: 200-400 nm or 200-800 nm



SMBC for Liquid Sample

SMB & Supercritical Fluid Chromatography

Misc - Simulated Moving Bed Chromatography (SMBC) - China

Simulated Moving Bed Chromatography (SMBC) is a continuous purification and separation technique with better performance (less mobile/solid phase consumption and higher throughput) than traditional batch liquid & gas chromatography. This technology could be applied to both gas and liquid separation and purification, even though major application is more related to liquid sample separation and purification..

Other Major Advantages of SMBC

- SMBC is particularly useful in biorefineries because of the low concentration of product stream from biorefineries (e.g. fermenters). The low concentration is favorable for adsorption, making it the preferred technology to achieve economic purification of the bio-products.
- Continuous regeneration of adsorbent reduces the excess use of adsorbents considerably.
- Savings in capital investment by offering a smaller footprint equipment, and manpower.
- Reduced consumption of desorbent and adsorbent makes this a greener process.

Biorefineries particularly face a huge challenge in isolating the desired products from the fermenter. The cost of separation and purification account for a large portion of costs in biorefineries. SMBC provides the much-required cost effective solution which makes biorefinery production feasible and competitive to traditional synthetic production techniques.



SMBC Systems: Gas Sample

SAJ - Supercritical Fluid Chromatography (SFC) - China

Properties of supercritical fluids lie between liquids and gases. This allows SFC to use the advantages of both HPLC and GC. SF CO₂ behaves similar to GC's carrier gas (of lower viscosity and higher diffusivity). Therefore, SFC allows quicker and more efficient separations as it penetrates easier to the porous solid phase than liquid mobile phase. The separation time can be cut down from hours or days to minutes.

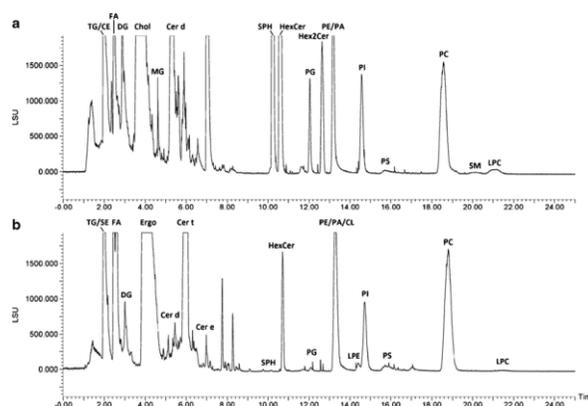
Supercritical fluids have greater solvating power to allow SFC handle larger molecules which GC could not. Also, Lower operating conditions (low critical temperature of 31°C and faster) makes SFC the best tool for heat-labile samples. Another advantage of supercritical CO₂ is that its solvating strength could be tuned (by altering the temperature and/or pressure of the fluid) and allows for optimized sovation. Hence, higher selective separation could be achieved.

Wider range of detectors is also possible because in SFC the mobile phase behaves like both liquid and gas, so GC and HPLC detectors can be used. For example SFC with flame ionization detection (FID) can provide quantification of resolved materials with a sensitivity of 0.1 ng. Due to the range of detectors available for SFC and the low critical temperature of the CO₂ mobile phase, the detection and analysis of heat-labile compounds has been successful.

Another advantage SFC has over HPLC is separation of chiral compounds, in HPLC the process is very time consuming, in SFC however, due to the lower viscosity of the supercritical fluids, the chiral separation can be run at a flow rate of up to 5 times faster than that of the HPLC all while avoiding pressure build up. The higher flow rate of SFC consequently means that the productivity is higher than HPLC.



SFC System



SFC Separation of complex sample in minutes

Portable / Mobile & On-line Mass Spectrometer

ESS - Electron Impact Mass Spectrometer - UK

Provides portable and lab-based Electron Impact Mass Spectrometers for dedicated applications:

- CatalySys: Two fused silica inlets as standard. Events can be monitored before and after the catalytic process.
- EcoCat: Portable instrument ideal for needs to move the system between processing points.
- PharmaSys: Online monitoring of residual solvent vapours & gases found in pharmaceutical applications.
- Reactorr-ReacTorr-S: A highly cost effective solution in monitoring clean rooms air (semiconductor processing)
- Reactorr-ReacTorr-V: A highly cost effective solution in monitoring (ambient to 10^{-9} mbar)



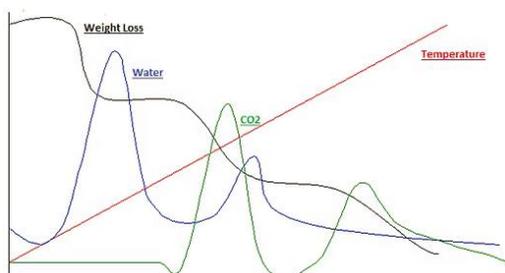
Catalyst Applications: CatalySys & EcoCat PharmaSys, Reactorr -S & -V GasTrace

- GasTrace: specifically designed for monitoring harmful residuals in pure gas & gas mixture.
- UltraTrace PPT: Ambient Air VOC's & Fugitive Emissions Monitoring (with Thermo-desorption option)
- FermentTorr: Measurement of dissolve or evolved gases and vapours in liquid samples.
- EnviroSafe: To detect, track and monitor real time accidental emission of hazardous substances, and with multiple sample point capability

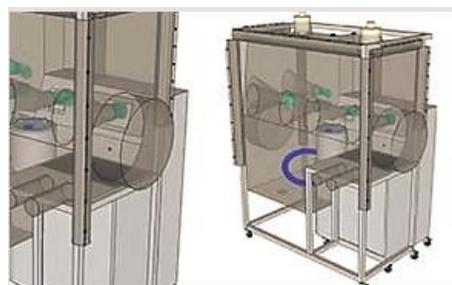


UltraTrace PPT EcoSys; Water Analysis EnviroSafe FermentTorr

- EcoSys: A portable environmental monitoring instrument that allows our clients to operate their gas analysis application practically anywhere. (optional accessory is available for liquid analysis)
- ThermaSys: Interfaces with TGA & DSC applications
- Containment / Barrier Isolation Solutions: Ideal for Pharmaceutical processing



ThermaSys



Containment Monitoring



Mobility

Dedicated Hardware for Different Applications

High Resolution EI- & PTR-TOFMS

Kore - Portable EI-TOFMS - UK

MS-200 is a portable, battery-powered Electron Ionisation TOF-MS for gas analysis – entirely contained in a suitcase.

The EI-TOFMS transports the advantages of mass spectrometry – good specificity for the identification of unknowns, versatility, accuracy and sensitivity – from the laboratory into the field. Instrument's double membrane inlet concentrator allows a wide range of gases to be identified and measured from the low ppb range up to % levels.

EI is described as hard ionisation; the excess energy in the collision produces many fragment ions. The 'fingerprints' or patterns of molecular and fragment ions can be related to extensive databases such as NIST and allow for mass spectral deconvolution. EI ionisation is most commonly used for ionisation of VOCs and SVOCs.



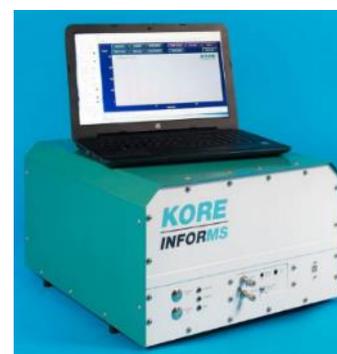
MS 200 Portable EI-TOFMS

Kore - Compact EI-TOFMS - UK

It is a modular, computer-controlled, time-of-flight mass analyser with bench-top design. It is easily transported in a car or van.

Ease of operation and ability to produce stable long-term analysis of gases at pressures from millibars to 10 bars makes the equipment well suited to process monitoring as well as catalysis studies and reaction kinetics research. With features:

- Flexible to Transport
- Special design Gas Inlet System
- High Time Resolution Mode
- Process Monitor Mode



Compact EI-TOFMS

Kore - PTR-TOFMS - UK

PTR is a soft ionisation method utilising H_3O^+ ions to transfer protons to all compounds with a higher proton affinity than water. General components in air are not ionised by the hydronium beam, but most volatile organic compounds (VOCs) are ionised by H_3O^+ with little or no fragmentation. Other molecules such as hydrogen sulphide (H_2S), hydrogen cyanide (HCN) and ammonia (NH_3) can be detectable by this H_3O^+ - based PTR method.

Compact PTR-TOFMS 3c is a new soft chemical ionisation tool for sensitive analysis of VOCs in ambient air. This new spectrometer can monitor all masses in parallel, allowing the maximum amount of information to be collected. The Kore PTR 3c has been developed to be transportable and can be taken on-site (mains power required), with full computer control of instrument parameters.

PTR-TOFMS 2e is designed specifically for research use. It delivers:

- High sensitivity with low detection limits for analyte species
- High mass resolution for unambiguous identification of chemical species
- A rugged, transportable instrument for use in field work



Models 2e PTR-TOFMS



Models 3c PTR-TOFMS

Portable / Mobile Mass Spectrometer

Bayspec - Portable Mass Spectrometer - USA

Designed for in-field use, the mass spectrometers require minimal maintenance, no consumables or sample preparation, and user friendly. Instruments are compatible with almost any atmospheric real-time ionization sources to acquire measurement acquisitions of vapors, liquids, and solid samples to fulfill nearly every application need.

Portability™ - miniature portable mass spectrometer was designed to provide master quality and reliable analysis outside of the laboratory. Portability™ strips out the cost of and logistics chore for lab test outsourcing. Requiring no sample preparation and its compatibility with almost any ambient ionization source. This self-contained design offers a simple solution for a wide range of applications, such as vapors/ liquids/solids, CWAs/TICs, biological/biomedical, forensic, agriculture, food safety, security, and explosives. The user-friendly interface, rapid deployment, and real-time results make Portability a great solution for fast and dependable field analysis for any user in any location.

Delivering ultimate mobility and ease of use, Both Portability™ and Continuity™ are compatible with ambient ionization techniques, which do not require any gases or tanks to run measurements. Making it ideal for field analysis. Providing flexibility to perform applications using various ionization techniques, the external ionization sources can also easily be swapped in less than a minute.

BaySpec offers many types of ionization sources to use with the Portability™ and Continuity™ portable mass spectrometers. These are TD-ESI, ESI, TD-APCI, Swab-APCI, APCI, DBDI, and more...

Portability™ and Continuity™ are compatible with ambient ionization techniques, which do not require any gases or tanks to run measurements. Making it ideal for field analysis, ambient ionization does not require sample preparation; sample introduction quick, direct, and easy to perform by anyone in any location. Providing flexibility to perform applications using various ionization techniques, the external ionization sources can also easily be swapped in less than a minute.



Continuity™ Portable MS



Portability™ Miniature MS



Ionization Source Platform



Dielectric Barrier Discharge Ionization



APCI (Atmospheric Pressure Chemical Ionization)



Swab-APCI



Air Monitoring (AM-APCI)



Photo Ionization



Multimodal



ESI (Electro Spray)



Customized

Elemental-Isotope Ratio Analysis & SCAR Spectrometer

NC Tech & Compact Science Systems - IRMS Isotope Ratio Mass Spectrometer - Italy & UK

The IRMS Instrumentation for the Results You Are Looking For.

Each element is directly related to the isotopic signature of the origin.

- Deuterium (δD): Controlled by the climatic conditions of the area of origin
- Carbon ($\delta^{13}C$): Controlled by the amount of corn (C3) in the animal feed
- Sulphur ($\delta^{34}S$): Controlled by the amount of ocean aerosols reaching the livestock fields/soil
- Nitrogen ($\delta^{15}N$): Controlled by the type of fertilization used.
- Oxygen ($\delta^{18}O$): Controlled by the temperature and rainfall of the area

Isotope ratio calculation could be obtained from Ratio Signals of sample and standard.

$$\delta X (0/00) = (\text{Sample} - \text{Standard}) / \text{Standard} \times 1000 \quad R = \text{mass/light isotope mass (e.g. } ^{18}O/^{16}O)$$

$\delta X > 0$ indicates an enrichment of the heavy isotope in the sample compared to the standard

$\delta X < 0$ indicates a depletion of the heavy isotope or an enrichment of the light isotope compared to the standard

When coupled with Elemental Analyzer, the EA-IRMS (ECS 8020 IRMS) could be used in areas of:

- Geosciences: Geochemistry petrology, volcanology, geology, soil, etc...
- Food: Authenticity identification, Distinguish between genuine and fraud
- Ecology
- Environmental: Climate change, idrology, etc.
- Sport doping: Distinguish between natural and synthetic Testosterone
- Flavor & fragrance: Essential Oils Origin, Natural or Synthetic Products



ECS 8020 - IRMS System

NC Technologies & ppq sense - Elemental-¹⁴C Spectrometer - Italy

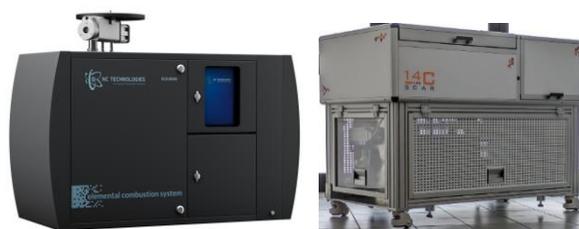
Coupled Elemental Analyzer with Laser-base Radiocarbon Analyzing Technology is the tool you are looking for.....

Radiocarbon = Marker of Life

Green Application: For environmental concern, it is extremely important to determine if a material (e.g. fuel/plastic) is produced from Fossil fuel or renewable biogenic source. This is possible economically when the ¹⁴C-SCAR spectrometer is coupled with the Elemental Analyzer (ECS 8020-SCAR).

Major Applications:

- Plastics / Fabrics (biobased content ratio)
- Wood
- Fashion Brands
- Sustain Air Fuel (SAF, bio-fuels)
- Differentiate Leather/Artificial Leather
- Direct sampling and analyze Atmospheric radio-CO₂
- CH₄
- ASTM D6866 & Biogenic fraction determination
- Nuclear Safety (radioactive wastes)



ECS 8020-SCAR

Summary:

For solid and Liquid sample: ECS 8020 + IRMS + SCAR could provide complete solution of determining ¹²C/¹³C/¹⁴C isotope ratios.

For atmospheric CO₂: ECS 8070 Air CO₂ + IRMS + SCAR could provide ¹²C/¹³C/¹⁴C isotope ratio of CO₂ in air.

Magnetic Sector Mass Spectrometer (Isotope Ratio Analysis)

Compact Science Systems - IRMS (Isotope Ratio Mass Spectrometer) - UK

The IRMS Instrumentation for the Results You Are Looking For

From breath test studies and food authenticity to oil/gas exploration and bioarchaeology, our portfolio of powerful IRMS instruments and software are used in a wide range of applications around the world.

IDMicro Breath: The most compact & Cost-Effective Isotope Ratio Mass Spectrometer for Breath Analysis

This is the most compact, convenient and easy to use breath test instrument available. Quickly and accurately detect *Helicobacter pylori*. Analyse liver function, lactose intolerance, pancreatic function, fat malabsorption, bile acid circulation and gastric emptying with the IDMicro Breath. Suitable for a wide range of applications, the IDMicro Breath evaluates breath gas with simplicity, selectivity and speed.



IDMicro Breath

IsoLogger Portable IRMS: An On-Site Gas Chromatograph Combustion Isotope Ratio Mass Spectrometer

Get accurate, real-time isotope analysis wherever you need it with the IsoLogger Portable IRMS. Designed for on-site natural gas exploration, this compact GC Combustion IRMS delivers precise carbon isotope ratio measurements in minutes. Whether you're identifying gas sources, assessing maturity, or distinguishing between biogenic, mixed, or thermogenic origins, the IsoLogger provides reliable field data with speed and accuracy.

Real-Time, On-Site Isotope Analysis

The IsoLogger's advanced real-time capability provides **accurate, immediate isotope analysis** for mud gas logging projects. With instant data interpretation, it supports **drill testing and well completion**, helping field teams make informed decisions without delays.

APPLICATIONS OF MUD GAS ISOTOPIC ANALYSIS

- Characterize petroleum fluids isotopically
- Identify reservoir compartments and correlate fluids between wells
- Easy to distinguish between oil and gas
- Predict and identify source rock
- Predict inert gas contents, such as CO₂
- Predict deep thermogenic petroleum systems in biogenic gas plays
- Reservoir seal identification
- Predict shallow, over-pressured gas



IsoLogger
Portable/Mobile IRMS

A Reliable, Field-Ready Portable/Mobile IRMS

Designed for **on-site use**, the IsoLogger is a **robust and dependable Portable GC-IRMS** built for demanding environments. It enables rapid H₂S concentration checks, precise thermogenic and biogenic gas classification, and CO₂ flood breakthrough detection —delivering accurate insights in minutes.

Chromatography Accessories & Consumables

Restek - Chromatography Consumables & Accessories - USA

Products include:

- GC & GC-MS Columns
- HPLC & LC-MS Columns
- SPE Cartridge
- SLE
- SPME
- Sampling Canister
- Certified Reference Materials (Gas & Liquid)
- **Many others**



GC Column & Guard Column



GC Liners



Solid Liquid Extraction & SPE Cartridges



SPME Arrow



Sampling Canisters



LC-MS Arrow Column



Super Clean Gas Filter



Certified Standard Ref. Material (Liquid & Gas)

Misc - Standard Gas & Liquid Generator - Misc

Gas Standards: Getting a gaseous reference standard is always a big headache before running daily analytical experiments. But there is a solution with this **Calibration Gas Generator**.

Liquid Standards: As always, setting up calibration curves for your daily GC or HPLC work is a **BIG** headache. With the FlexStation P4, you set up calibration curves easily because of its automation.



Reference Material (Gas & Liquid) Generation

Guyline (Asia) Ltd.

Rm 1611, Eastern Harbour Centre, 28 Hoi Chak Street, Quarry Bay, Hong Kong

Tel: (852) 2856 0605

Fax: (852) 2811 3379

E-mail: admin@guyline-asia.com

Website: www.guyline-asia.com

香港 . 北京 . 上海 . 广州 . 深圳 . 成都 . 武汉 . 长沙 . 长春