

Innovative Solution Trusted Partner

Panna (Shanghai) Instruments Co., Ltd.
Panna (Changzhou) Instruments Co., Ltd.

📍 Address:
Building 15, No. 66 Huiyuan Road, Jiading District, Shanghai, China
Building A6, No. 9, Changyang Road, West the Taihu Lake Science and Technology
Industry Park, Wujin District, Changzhou City, Jiangsu, China

✉ intl.marketing@pannatek.com

🌐 www.pannatek.com



AMD9Pro GC/MS

Gas chromatography-mass spectrometry instrument



Breaking through conventional patent designs



AMD9Pro GC/MS A is the latest domestically produced gas chromatography-mass spectrometry instrument launched by Panna , which has the characteristics of strong pollution resistance, high sensitivity, and good stability. Its detection limit can reach the level of micrograms, allowing for precise qualitative and quantitative analysis of sample peaks, obtaining high-precision data that is generally unavailable for single quadrupole gas chromatography.

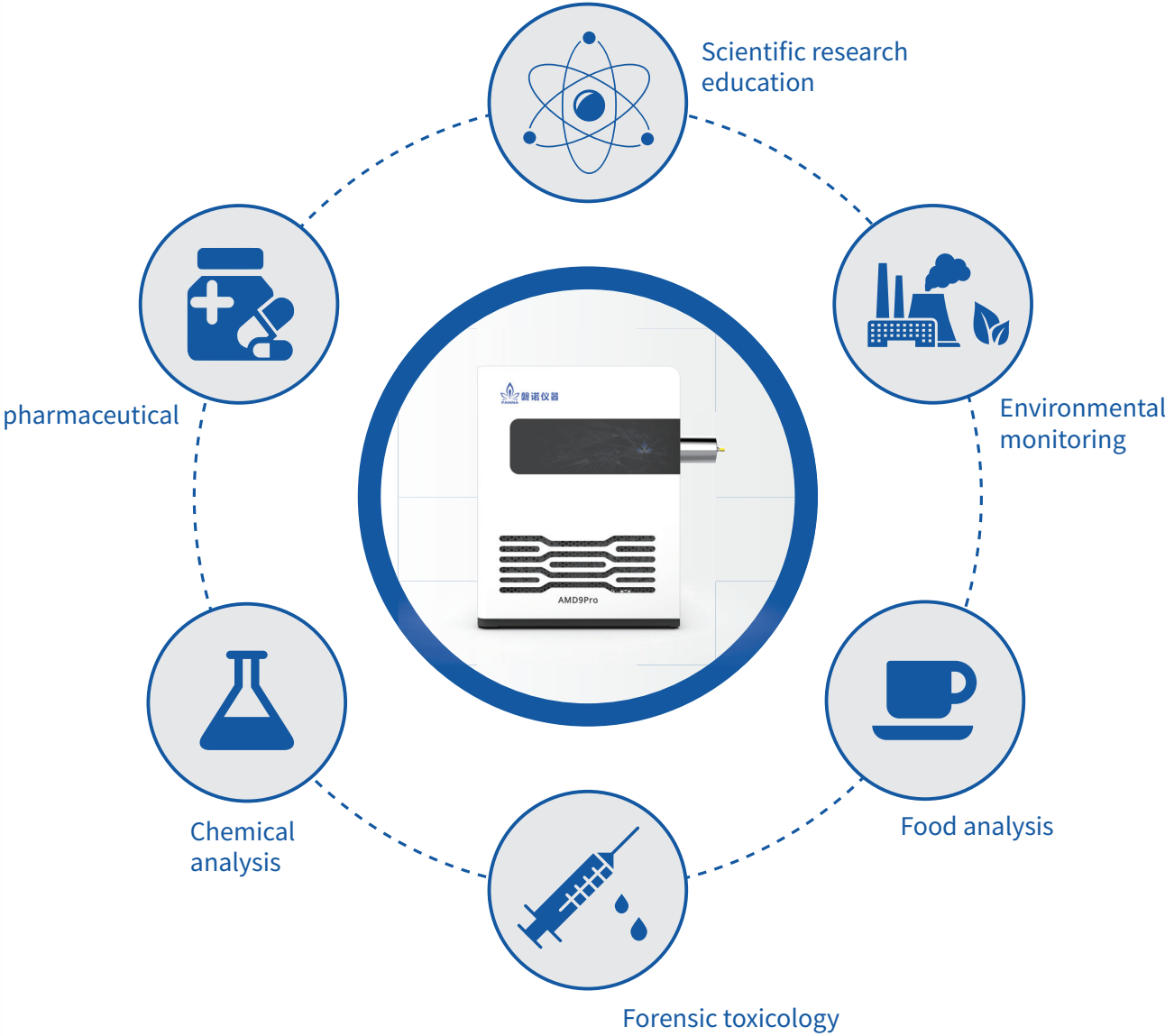
AMD9Pro GC/MS is seamlessly connected to the Panna gas chromatograph. The new modular design allows for quick and convenient maintenance, equipped with vacuum free chromatography column replacement technology to ensure maximum normal operating time.

AMD9Pro GC/MS has unparalleled background removal technology, which can effectively remove non target ions, enhance stability, improve sensitivity, and help customers achieve more consistent and reliable results.



Widely applicable fields

Equip your laboratory with innovative mass spectrometry technology, create specialized solutions for your applications, and lead the development of analytical technology in scientific research, food, and environmental fields.



A new generation of GC-MS Start with excellent gas chromatography

A91 Pro has the international advanced level of detector performance, with a wide range of optional configurations and expansion performance. In response to customers' needs for analysis efficiency, detection sensitivity, intelligent control and the integration of the overall analysis solution, the functions of each component are improved, so that users' analysis and detection are faster, more accurate and more stable.



- ◆ Full touch operation screen, more streamlined, more modern.
- ◆ "Dual core" processor improves EPC accuracy.
- ◆ "Digital amplifier circuit technology" makes the detector's signal-to-noise ratio more competitive.
- ◆ It can realize the inert treatment of sample flow path, greatly reduce the sample adsorption amount, and ensure the accuracy of detection results.
- ◆ Abundant sample pretreatment equipment simplifies the laboratory workflow and improves the efficiency of analysis and detection.
- ◆ Bridge series chromatography workstations support upgrades, support gmp audit trails, and can be used with rights management software to ensure data security, integrity, and compliance.



Innovative mass spectrometry techniques make the job easier



Super strong inert ion source

The inert ion source is designed to tolerate samples with high matrix and biological matrix. The inner surface of the inert material ensures that the active material is not adsorbed, and excellent results can be obtained. Long life dual filament design reduces downtime due to filament replacement.



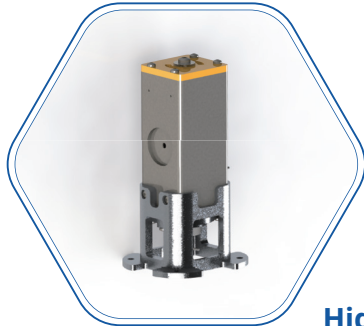
The innovative pre-quadrupole design eliminates neutral particle noise and has a higher ion pass rate

The S-type - pre-quadrupole forms a conductive electric field that guides ions into the quadrupole, while filtering out interference from neutral particles and metastable ions, reducing background noise and improving.



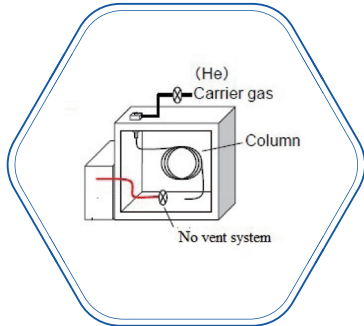
High precision quadrupole

High-precision quadrupole, coupled with the unique export ion focusing design of the quadrupole, can obtain higher ion transport efficiency and further improve sensitivity.



High performance detector

Patented ion focusing and multi-axis deflection ion channel design further eliminates neutral particle noise and achieves quantitative results with Fekker level sensitivity and ultra-long stability.



No-discharge vacuum column changing technology (Optional)

No-discharge vacuum technology, no need to discharge vacuum can maintain the gas chromatograph, replace the column, greatly reduce the downtime, improve the efficiency of the GC instrument, reduce the problem caused by repeated vacuum mass spectrometry.



Turbomolecular pump

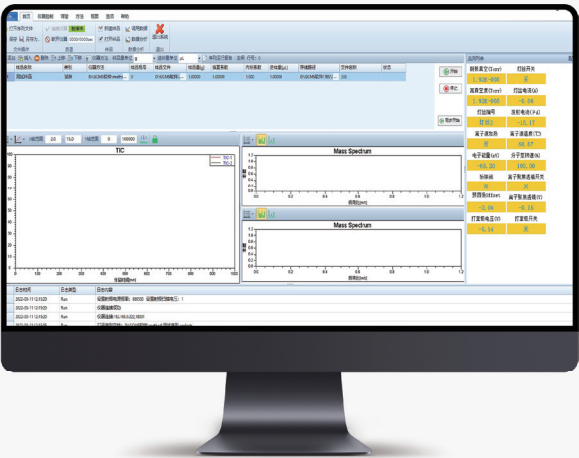
Large pumping speed molecular pump provides high vacuum for ion channels, improves ion passing rate and improves detection sensitivity.



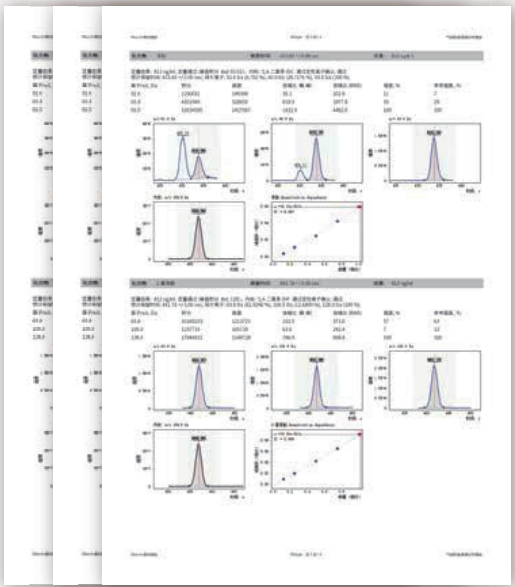
Application centered

For the first time, the AMD9Pro GC/MS software system introduces an application-centric software operating interface into the design, making it an easy-to-use mass spectrometry. Users can quickly complete the whole process from method development to sample analysis, and quickly and accurately generate qualitative and quantitative results.

The AMD9Pro GC/MS system software is flexible and easy to use, and can be seamlessly integrated with different gas chromatographs from Panna. Get the qualitative and quantitative information you need with one click.



Rich report templates



The software includes a variety of standard report templates, which can quickly and easily generate the required reports for the convenience of customers.

Rich injection system collocation



Three-dimensional guideway automatic liquid sampler

- 152 bit sample processing channels;
- Suitable for a variety of injection needles, injection volume can be flexibly set;
- Automatic identification of zero scale, save manual calibration needle trouble;
- Software reverse control automatic sampler, simple operation, improve efficiency.



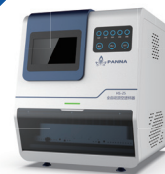
B76 Automatic liquid injector

- 16-bit sample processing channel;
- Software reverse control automatic sampler, simple operation, seamless compatibility with Panna gas chromatograph, perfect fit.



TD-50-S&TD automatic thermal desorption instrument

- Split structure design, flexible combination, wide range of application;
- 50 automatic into the grade;
- The secondary desorption heating rate can reach up to 100°C/s;
- Dual cold well construction for dual channel simultaneous injection (TD-B);
- MFC (Mass Flow Controller) for shunt, recovery and other functions (TD-A).

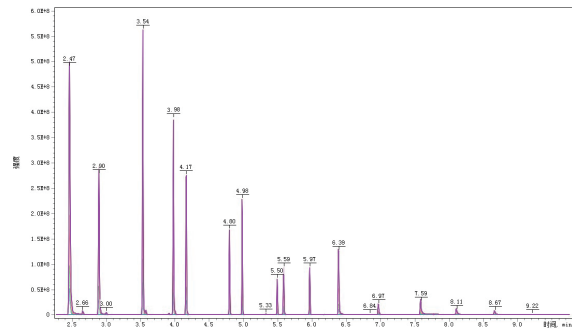


HS-25 fully automatic headspace sampler

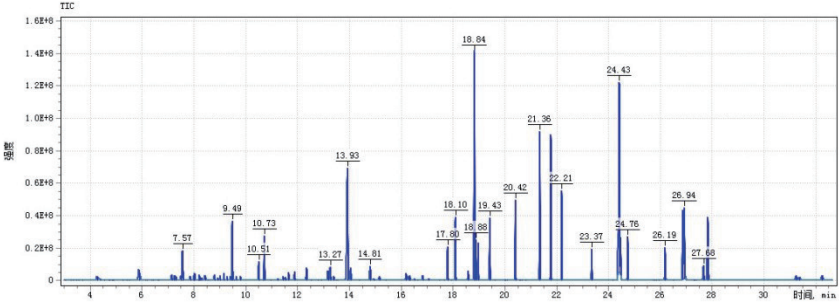
- 12 pre-heating positions can be overlapped to save time;
- The adjustable quantitative ring system of the patented technology (patent No. ZL2019 22313365.0) solves the problem that customers cannot easily adjust the sampling volume of the quantitative ring;
- High precision electronic pressure control system for accurate sampling.

Application scheme

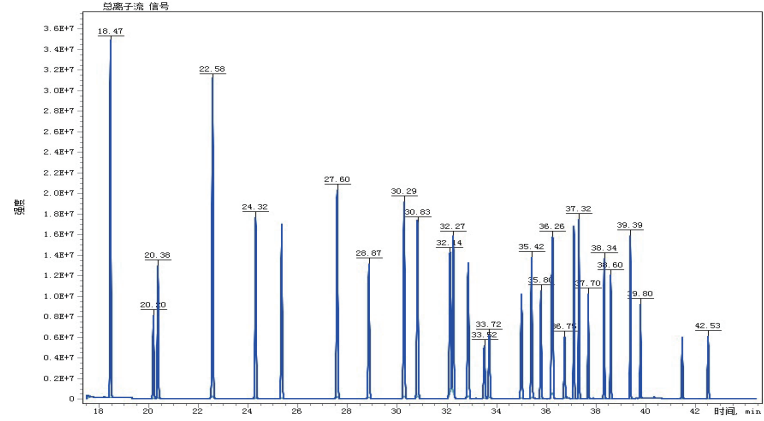
APPL 1 Determination of polybrominated biphenyls and polybrominated diphenyl ethers in Electronic and Electrical Products (GC-MS method)



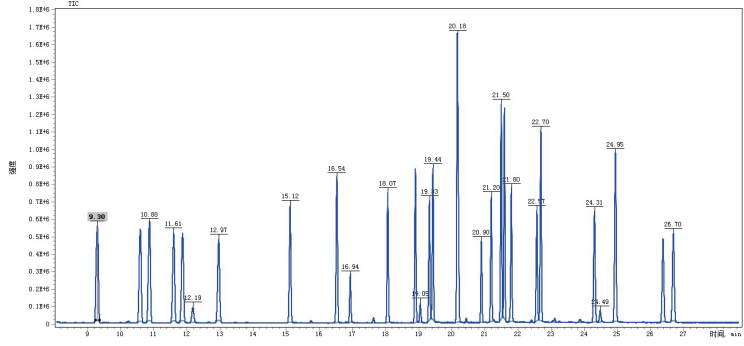
APPL 2 Determination of Semi-volatile Organic Compounds in Soils and Sediments (GCMS method)



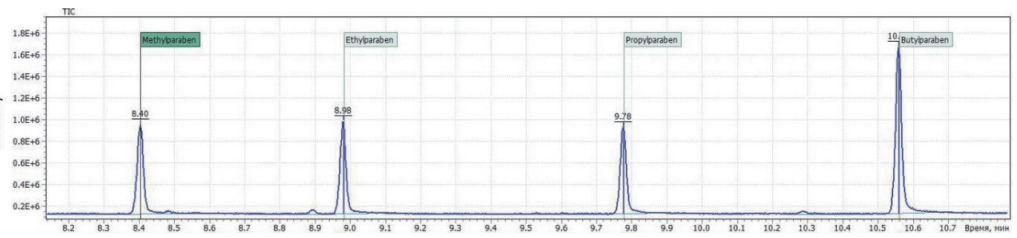
APPL 3 Determination of polychlorinated biphenyls in ambient air (HJ 902-2017 GCMS Method)



APPL 4 Determination of Semi-volatile Organic Compounds in Soils and Sediments (GCMS method)



APPL 5 Determination of 4 P-hydroxybenzoates in Cosmetics (GCMS method)



APPL 6 Determination of amphetamine in urine (GCMS method)

