



G5

GAS CHROMATOGRAPH



High Tech for Scientific Research

General description

The new generation gas chromatograph G5 bases on decades of R & D experience, with intelligent electrical control system, professional high-sensitivity detector and a full range of application solutions, is your trusted partner.



Features

Stable

Double Stable Gas Path

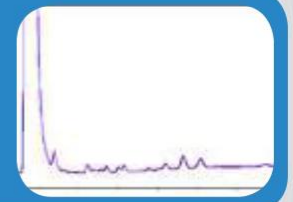
The double adjustment design of voltage-stabilizing valve and stable-flow valve or needle valve are used in the pneumatic system. The use of Digital dial knob achieves the characteristics of high precision, good repeatability, convenient and intuitive flow adjustment.



Accurate

Accurate qualitative and quantitative results

The stable gas flow and temperature control combined with high sensitivity detector bring you more accurate qualitative and quantitative analysis results.



Intelligent

Intelligent digital control system

The computer-controlled system, large-screen LCD display, multiple temperature protection and data network transmission make it possible to realize the laboratory digital management



Powerful

Abundant injector/detector

You can configure the modular to meet your application requirement. Anti-control software can realize more excellent expansion configuration, convenient, time and labor-saving.



Column Oven



With large oven space, G5i is capable of convenient installation for capillary column or double packed column, and achieve multi-dimensional chromatographic analysis Easily. Excellent temperature control system to achieve the fast and accurate temperature control. The double rear door mechanism ensures rapid cooling and reduces the analysis cycle.

Injector

Packed Column Injector and Capillary Split / Splitless injector can be optional. They are available for the installation of a variety of columns (stainless steel columns, glass columns, capillary columns) and can realize the perfect combination of 5 kinds of injections and load up to three kinds of injectors simultaneously.



Detector

Six kinds of high-performance detectors can be optional, namely FID, TCD, FPD, NPD, ECD and PID. Maximum three detectors can be installed simultaneously. One or two Detectors can be easily upgraded from the basic one detector system after purchasing instrument.

Hydrogen Flame Ionization Detector (FID)

Easy to disassemble and clean nozzle and ion collection unit

Thermal Conductivity Detector (TCD)

Unique air-insulated structure makes TCD has a higher stability

Flame Photometric Detector (FPD)

Optimal nozzle structure and optical design to ensure lower detection limits and a wider dynamic range

Nitrogen and phosphorus detector (NPD)

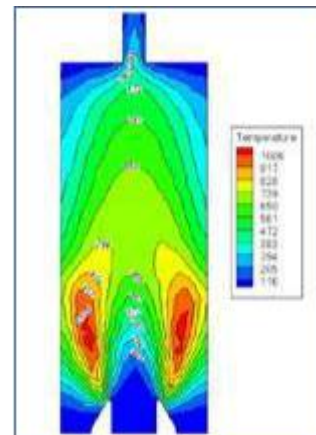
Highly sensitive bead to ensure superior detection limits

Electronic Capture Detector (GC1120 ECD)

Sophisticated structure design and high stability of the source film ensures the reliability of the analysis results

Photo Ionization Detector (PID)

Non-destructive high-sensitivity detector can be used in series with a variety of detectors to expand the scope of application



Software

Intelligent anti-control software can achieve real-time control of the instrument, data acquisition and processing.

Real-time control of the instrument includes various functions such as temperature control, detector selection and setting, program temperature control and curve tracking, and flow rate display (optional).

Data handling include dual channels (can be extended) high speed data acquisition, integral with manual or auto parameters setting, 5 kinds of quantity methods, baseline correction and making report function



Accessory



Auto-sampler



Thermal desorption



Headspace Sampler



Hydrogen gas generator



Nitrogen gas generator



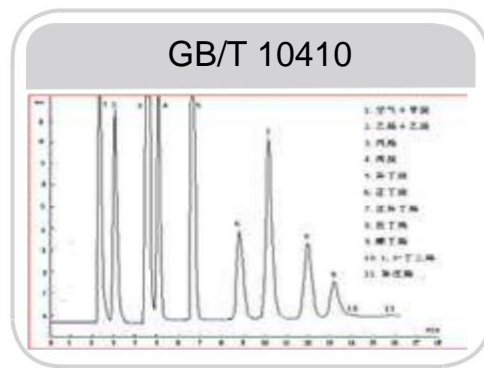
Automatic air source

Application

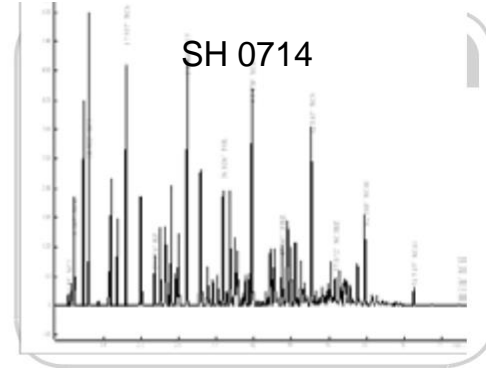
Gas chromatograph plays an important role in laboratory analysis. It also show a wide range of applications in petrochemical industry, coal mining and metallurgy, food safety, medical and health, environmental protection and water conservancy, university research and other industries.

High-quality G5 GC ensures accurate analysis result. The comprehensive solutions meets your application requirements. Excellent after-sales service makes you worry-free.

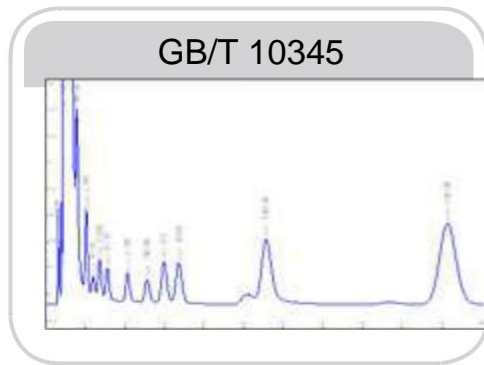
Analysis of the macro component of LPG



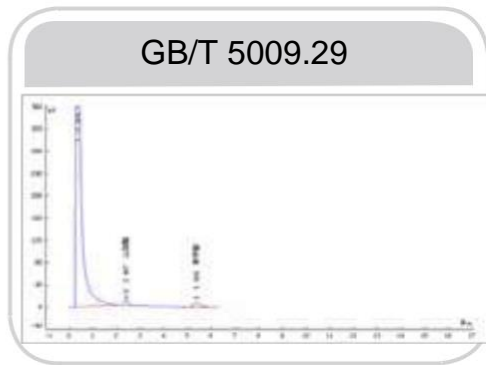
Analysis of Monomer Hydrocarbons in Naphtha



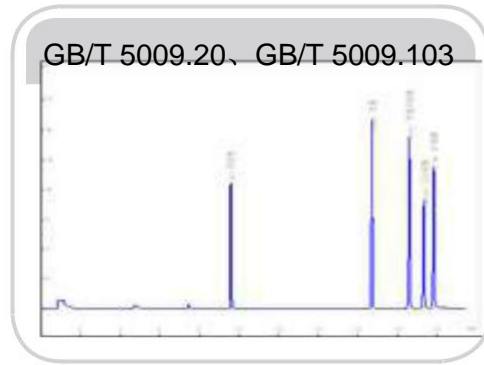
Analysis of Liquor components



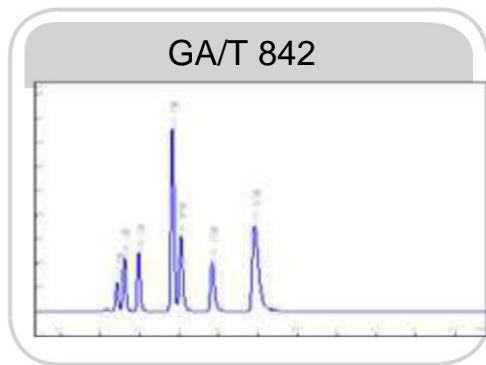
Analysis of food additives



Analysis of organophosphorus pesticide residues in food



Analysis of alcohol in blood



Specification

Temperature control

Temperature range:	7°C above room temperature (R.T.) ~ 400°C (1°C increment)
Oven, front / rear detector,	front / rear injector, auxiliary, 6 parts in total
Temperature programming:	7-stages temperature programming (Anti-control software supports 10 - stages temperature programming)
Temperature programmed rate setting:	0.1°C ~ 40°C /min (0.1°C increment, measured at 200°C)
Thermostatic timing per stage:	0 ~ 655 min (1 min increment)

Hydrogen Flame Ionization Detector (FID)

Detection Limit	$\leq 7 \times 10^{-12}$ g/s (n-hexadecane)
Noise	$\leq 2 \times 10^{-13}$ A
Drift	$\leq 4 \times 10^{-13}$ A/30min
Linear range	10^7

Thermal Conductivity Detector (TCD)

Sensitivity	≥ 6000 mV.mL/m (Benzene)
Noise	≤ 0.04 mV
Drift	≤ 0.2 mV/ 30min
Linear range	10^4

Flame Photometric Detector (FPD)

Detection Limit	$\leq 8 \times 10^{-13}$ g/s (P) (Parathion-methyl)
Linear range	10^4
Detection Limit	$\leq 8 \times 10^{-11}$ g/s (S) (Parathion-methyl)
Linear range	10^3
Noise	$\leq 4 \times 10^{-13}$ A
Drift	$\leq 1 \times 10^{-12}$ A/30min

Nitrogen and phosphorus detector (NPD)

Detection Limit	$\leq 5 \times 10^{-13}$ g/s (N) (Azobenzen)
Linear range	10^3
Detection Limit	$\leq 5 \times 10^{-14}$ g/s (P) (Malathion)
Linear range	10^3
Noise	$\leq 2 \times 10^{-13}$ A
Drift	$\leq 1 \times 10^{-12}$ A/30min



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